

**IMPLEMENTATION OF
THE 2018 FARM BILL:
RURAL DEVELOPMENT
AND ENERGY PROGRAMS**

HEARING

[BEFORE THE]

**COMMITTEE ON AGRICULTURE,
NUTRITION, AND FORESTRY
UNITED STATES SENATE**

ONE HUNDRED SIXTEENTH CONGRESS

FIRST SESSION

NOVEMBER 7, 2019

Printed for the use of the
Committee on Agriculture, Nutrition, and Forestry



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Thursday, November 7, 2019

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IMPLEMENTATION OF THE 2018 FARM BILL: RURAL DEVELOPMENT AND ENERGY PRO- GRAMS

THURSDAY, NOVEMBER 7, 2019

UNITED STATES SENATE,
COMMITTEE ON AGRICULTURE, NUTRITION, AND FORESTRY,
Washington, DC.

The Committee met, pursuant to notice, at 9:30 a.m., in room 328A, Russell Senate Office Building, Hon. Pat Roberts, Chairman of the Committee, presiding.

Present or submitting a statement: Senators Roberts, McConnell, Boozman, Hoeven, Ernst, Hyde-Smith, Braun, Grassley, Thune, Fischer, Stabenow, Brown, Bennet, Gillibrand, Casey, and Smith.

STATEMENT OF HON. PAT ROBERTS, U.S. SENATOR FROM THE STATE OF KANSAS, CHAIRMAN, U.S. COMMITTEE ON AGRI- CULTURE, NUTRITION, AND FORESTRY

Chairman ROBERTS. Good morning. I call this meeting of the Senate Committee on Agriculture, Nutrition, and Forestry to order. Today's hearing advances this Committee's continued oversight of the Department of Agriculture's implementation of the 2018 Farm Bill.

A principal duty of this Committee is to ensure that the Department has the authority and resources to provide our Nation's agriculture producers with the necessary tools to feed a troubled and hungry world, as well as this country. The responsibility of the Committee and the USDA does not stop there. It is also critical this partnership supports rural businesses, electric cooperatives, telecom providers, schools, health clinics, renewable energy, biobased product manufacturers, and other essential service providers that serve as the backbone of the rural communities our farmers and ranchers all call home.

Over the past two years, at our two field hearings in Kansas and Michigan, and at a hearing here in Washington, we had the opportunity to listen to witnesses representing both the Administration and rural communities, as they discussed changes to the Farm Bill that would help rural development. We listened and we acted by adopting many of these recommendations in the bipartisan 2018 Farm Bill.

On our first panel today we are pleased to have the administrators for the three agencies within the Office of Rural Development at the Department of Agriculture: the Rural Utility Service, the Rural Housing Service, and the Rural Business Cooperative Serv-

ice. This panel will discuss the Department's vision for fostering growth and economic prosperity throughout rural America, which is sorely needed, and will highlight the progress made in implementing changes this Committee legislated in the rural development and energy titles of the Farm Bill.

For our second panel of witnesses, we will hear from a broad set of private sector stakeholders, including the CEO of one of Mississippi's leading rural electric cooperative, who works every day to provide essential utility services to farmers and ranchers in small towns; an Iowa farmer—imagine that, Joni, an Iowa farmer—who utilizes resources provided by the Department to help build an on-farm anaerobic digester system and a renewable energy facility, something we are doing in Dodge City, Kansas, by the way, Joni. We will have to have you out there. We will make you an Honorary Amanda Blake. Nobody remembers that. I understand that, but that is the way it is.

A Kentucky health care provider who has leveraged a USDA distance learning and telemedicine grant to expand service capabilities throughout his State. This provides the most vulnerable populations with access to affordable health care and support in fighting the opioid addiction crisis that is plaguing so many of our rural communities.

Finally, the director of Michigan State University Extension—go green and white—who is working with both state and federal stakeholders to find ways to address mental health challenges that our farmers face every day.

We look forward to our discussion today regarding the rural development and energy titles of the Farm Bill. These programs play an important role in providing our rural communities with the economic tools they need to grow and thrive.

I now recognize the distinguished Senator from Michigan for any opening remarks she would like to make.

**STATEMENT OF HON. DEBBIE STABENOW, U.S. SENATOR
FROM THE STATE OF MICHIGAN**

Senator STABENOW. Well, thank you, Mr. Chairman. I have really been looking forward to this hearing and welcome our witnesses on both of our panels today. This is so important. Everybody in this room knows that rural America is the backbone of the economy, just like my hometown, Clare, in northern Michigan. All across the country, people in rural communities create businesses, run family farms, work in manufacturing, and really create quality of life for so many families.

We should be doing everything we can to celebrate and strengthen our small towns I know we all believe that around this table. In the 2018 Farm Bill, we made smart investments to grow rural opportunity and ensure every American can enjoy a high quality of life, no matter where they live.

When I visit rural Michigan, one of the top concerns I hear—and I know my colleagues hear as well—is the need to access high-speed internet in order to participate in the 21st century economy. In the Farm Bill, we increased the funding available for high-speed internet deployment 15 times higher than the previous amount because it is so central to moving forward. I understand the USDA

is currently writing new rules for the Farm Bill improvements. I urge the Department to meet its goal to complete the rules by December so that Congress can fund this new and improved program.

Families in rural communities are also concerned about access to health care, especially with the mental health and opioid crisis taking a devastating toll on small towns. We addressed this head-on through expanded telemedicine and community facility investments to provide critical treatment for those who suffer from addiction and mental illness.

To ensure that every family has safe drinking water, we prioritized rural water infrastructure investments for small towns dealing with dangerous contaminants like PFAS.

Rural communities also need strong locally owned businesses, and good high-paying jobs. Rural small business investments are critical to creating jobs, promoting entrepreneurship, and revitalizing Main Street.

In States like Michigan where we make things and grow things, agriculture and manufacturing are both at the heart of the economy. That is why we created opportunities in the last Farm Bill to support biobased manufacturing. Instead of using petroleum, companies are creating new products from American-grown crops.

We also provided permanent funding for value-added agriculture grants to help farmers grow their business, whether they are turning locally grown tomatoes into salsa or corn into ethanol.

Investing in renewable energy also leads to job creation and helps us address the climate crisis. In the 2014 Farm Bill, I included permanent mandatory funding for the popular Rural Energy For America program, REAP, which helps farmers and businesses lower their utility bills through installing renewable energy systems and making efficiency upgrades. From hog producers to organic fruit growers, these grants have helped a wide variety of Michigan farmers and those across the country save money and become more energy efficient.

We have also seen wineries, breweries, restaurants across our State and the country install solar arrays to power their rural small businesses.

As USDA implements the Farm Bill, we need this Administration to step up to strengthen our rural economy. Over the past three years it has been disheartening to see the Trump administration continue to target rural America and the Farm Bill for cuts. We need to be investing more in rural communities, not less. Eliminating rural infrastructure and small business investments moves us in the wrong direction.

On the issue of renewable fuels, unfortunately, this Administration continues to let down American farmers and biofuel producers by caving to the demands of the oil industry. We have seen some discussion of changing that, but I have yet to see this really happening.

Additionally, I am disappointed that the Committee has not received a nominee for an Under Secretary of Rural Development. We re-established this important position in the Farm Bill to be a staunch advocate for rural America within the Administration. We appreciate all of you and your focus, but we agreed on a bipartisan

basis in Congress that we needed a focused leader to address all of the concerns facing small towns and rural communities.

It is great to see our three rural development administrators here today. I look forward to hearing your perspectives. We appreciate your work.

Thank you, Mr. Chairman.

Chairman ROBERTS. Thank you, Senator.

Today, I am pleased to welcome the three administrators that oversee the vital agencies within the USDA Office of Rural Development. Ms. Bette Brand is the Administrator of the Rural Business Service. She joined the USDA after 35 years with Farm Credit of the Virginias, where she most recently served as chief advocate for the agriculture industry and rural businesses. Welcome, Bette. We appreciate it.

Next we have Mr. Bruce Lammers, the Administrator of the Rural Housing Service. Mr. Lammers has had more than 35 years of experience leading public-private partnerships at national community-oriented lending institutions, including serving as a former CEO for a bank that was a national leader in government guaranteed lending. Thank you for joining us today, Mr. Lammers.

Last we have Mr. Chad Rupe, who is the Administrator of the Rural Utilities Service. Prior to coming to Washington, Mr. Rupe served as the Rural Development State Director of Wyoming—big sky country—from 2017 to 2019. Before joining the Department, Mr. Rupe spent more than 13 years in the banking industry, specializing in commercial lending in Wyoming. Notably, he began his service to our country in the United States Army, so thank you for your service, Mr. Rupe.

In the interest of time, we have asked the Department to provide one opening statement on behalf of all three administrators, with each available to answer questions from members on the Committee. Perhaps, I think it would be very advisable if I would now recognize the Senator from Kentucky. Leader, do you plan to introduce your Kentucky witness on the second panel at this point?

Senator MCCONNELL. Well, I appreciate that opportunity, Mr. Chairman, if I may.

Chairman ROBERTS. Well, the Senator is recognized.

Senator MCCONNELL. I would go right ahead and do it. Senator Stabenow expected me to make a speech on hemp.

[Laughter.]

Senator MCCONNELL. Instead of speaking on hemp, I am here today to introduce a constituent of mine. As we continue reviewing the implementation of last year's Farm Bill, I am proud this morning to introduce a Kentuckian who is working to move the ball forward on the legislation's rural development goals.

Michael Stanley is the CEO of Grace Health, a community health center providing a wide range of services to more than 35,000 residents of southeastern Kentucky, which is down in the Appalachian region of my State. With a focus on vulnerable and low-income Kentuckians, Grace Health is an indispensable resource tackling the systemic health challenges in rural communities.

As our colleagues on the Committee know, access to health care in places like the Appalachian region is an important part of the Farm Bill's Rural Development Title. Healthy communities are bet-

ter able to attract investment, encourage job creation, and support the farm economy.

Unfortunately, too many of my constituents from this beautiful region suffer from health challenges, which are compounded by severe physician shortage, and all too frequent substance abuse.

For more than three decades, Mike has been working to help Kentuckians overcome these challenges by leading and expanding health care programs in the eastern part of our State. He is improving access to services and delivering some rather impressive results.

When Mike joined Grace Health in 2012, there were only a couple of dozen employees and two clinics, with a small service area. Today they have nearly 300 personnel, seven clinic sites across six counties. Mike and his team place a strong emphasis on bringing medical professionals into previously underserved areas. For example, Grace Health operates almost 40 school-based health clinics, providing Kentucky's next generation with medical and dental care. They are opening new doors to treatment and long-term recovery in communities devastated by opioid and substance abuse.

Today, Mike will shed light on Grace Health's telehealth programs, which represent a much-needed investment into eastern Kentucky and its future. Through programs like the USDA Distance Learning and Telemedicine Grants, Mike and his team can continue providing high-level care to more patients in hard-to-reach areas than ever before. These federal grants also give Grace Health the opportunity to solidify partnerships with other health care providers and development organizations. Mike's experience will be a helpful guide as we evaluate the Federal Government's policies designed to tap into potential that we have in rural America.

I look forward to his recommendations to the Committee on how we can continue to support his work and help encourage healthy outcomes and economic development in rural communities.

Thank you, Mr. Chairman, Senator Stabenow, for allowing me to step in and say these—give these remarks on behalf of my constituent. Thank you very much.

Chairman ROBERTS. It is our privilege, Leader, and thank you so much for coming and making that excellent statement.

It occurs to me that unless I recognized the distinguished President Pro Tem of the Senate, who is also the Chairman of the Senate Finance Committee, he always—this is the first time, I would say to the Senator from Michigan, that he has not come in first and asked to go first, because of his duties elsewhere. I am a little alarmed as to whether or not we should recognize him now or not.

At any rate, Senator Grassley, do you have anything to say, because of your important duties elsewhere?

Senator GRASSLEY. Since I did not think you would call on me, I have already taken care of it by going to Mr. Sievers, a very important constituent of mine, and telling him that in about five minutes I am going to be leaving to open the Senate, and then I am going to the Senate Judiciary Committee to make a quorum to get more judges out. Then I am going to come back here and hopefully he will still be on the program and I can ask him some questions.

I am glad that the Senator from Kansas has decided to get the expertise that we have in the No. 1 agricultural State, in the State of Iowa, and invite Mr. Sievers in. Thank you for doing that.

Did it surprise you I did not yell at you?

[Laughter.]

Chairman ROBERTS. Yes.

Senator GRASSLEY. That is what I thought.

Chairman ROBERTS. Are you going to depart immediately or are we going to have you here for five minutes and then you are going to come back?

Senator GRASSLEY. I am going to stay for five minutes.

Chairman ROBERTS. I see.

Senator GRASSLEY. I have already been here 15 minutes.

Chairman ROBERTS. I understand that.

Senator GRASSLEY. Okay.

Chairman ROBERTS. You were right on time. We appreciate that.

As a matter of fact, I noted the fact that I could not see Bette Brand because you were leaning forward, but that is okay. You might want to be like Coop, who just left here, and just lean back so I could see. There we go. Thank you.

Let's get reorganized if we can here.

Senator GRASSLEY. I need to adjust my chair so it will lean back.

Chairman ROBERTS. Mr. Rupe, I think I am going to call you first, and I understand you have a prepared statement.

Thank you again, sir, for coming.

STATEMENT OF CHAD RUPE, ADMINISTRATOR, RURAL UTILITIES SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.

ACCOMPANIED BY BRUCE LAMMERS, ADMINISTRATOR FOR RURAL HOUSING SERVICE, UNITED STATES DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.; AND BETTE BRAND, ADMINISTRATOR FOR RURAL BUSINESS COOPERATIVE SERVICE, U.S. DEPARTMENT OF AGRICULTURE, WASHINGTON, D.C.

Mr. RUPE. Good morning, Chairman Roberts, Ranking Member Stabenow, and distinguished members of the Committee. My name is Chad Rupe and I am the Administrator for USDA Rural Development's Rural Utility Service. I am accompanied this morning by my colleagues, Administrator Bette Brand, who oversees Rural Business Cooperative Service, and Administrator Bruce Lammers, who oversees Rural Housing Service.

The three of us administer unique programs and resources that help bring prosperity and opportunity to rural areas. We are honored to be here with you this morning to share Rural Development's efforts regarding implementation of the 2018 Farm Bill.

Rural Development's mission is to increase economic opportunity and improve the quality of life for rural Americans. Together, we manage a loan portfolio of more than \$225 billion, and our investments support rural residents looking for affordable housing, municipalities seeking water infrastructure and community facilities, and rural businesses, cooperatives, and agricultural producers looking to expand into new markets. We are also a vital resource of financing for rural broadband and electric infrastructure.

As you know, rural communities have unique challenges due to their location and lack of access to modern technologies, like broadband infrastructure. However, while these challenges do exist, rural America also has unique resources that, when paired with their inherent grit and determination, provide opportunities for prosperity. Our goal at USDA Rural Development is to partner with our Nation's rural communities through the programs and resources that Congress has made available in order to connect them to a world of opportunity and ultimately prosperity.

The 2018 Farm Bill reauthorizes many Rural Development programs that are vital to helping rural communities build stronger economies, create jobs, and improve their overall quality of life. We have been working effectively and efficiently to implement the 2018 Farm Bill, and have successfully started to implement provisions, such as the new loan grant option within the Rural Broadband Program, expanding access to credit for rural communities by increasing the population limits for Community Facilities and Water and Waste Disposal Programs, and establishing the Local Agriculture Markets Program (LAMP).

As the administrators overseeing these programs, we will continue to work with members of the Committee to address the unique needs of rural America. We thank you for inviting us before the Committee to share the important work we do. We appreciate your continued interest and support of Rural Development programs, because we believe when rural America thrives, all of America thrives.

At this time we will answer your questions.

[The prepared statement of Mr. Rupe can be found on page 40 in the appendix.]

Senator BOOZMAN.

[Presiding.] Senator Ernst.

Senator ERNST. Thank you, Mr. Chair. I want to start with Mr. Lammers. I do appreciate everyone being here today. Thank you so much.

Mr. Lammers, this week I finished my annual 99-county tour across Iowa, and one of the biggest concerns I heard this year was a lot of affordable rural housing, and that comes up over and over again.

As you point out in your testimony, the 2018 Farm Bill included several provisions that expand eligibility for rural housing service programs. What steps can we take to build on these provisions, as we work to allow the communities to have more opportunities for financing in the coming months and years?

Mr. LAMMERS. Thank you for your question. You happen to be a neighbor of mine, having come from Wisconsin, and so I appreciate your question.

During the last year, we served families with single-family housing loans as well as multi-family housing loans, and I believe our allocation of direct loans out of the 502 program was \$1 billion, and we fully utilized that during the year. I am very proud that we were able to accomplish that.

Our guaranteed loan program is really based upon the demands of customers that approach banks, and I think it is a marketing program that the banks view as a positive product for them. We

provide housing through those two programs as well as the multi-family program, and Farm Labor Housing.

Senator ERNST. You said “fully used.” That would indicate a necessity to continue those programs on into the future as well then. Is that correct?

Mr. LAMMERS. I am pleased that we were able to fully utilize it. The 502 program provided 6,185 home loans to families last year, and that is a \$1 billion program.

Senator ERNST. Okay. Very good, and I appreciate that. It is an area we need to continue to work on.

Ms. Brand, I would like to visit with you about the biorefinery program. It has been a really vital source of job creation in rural communities since its creation. However, under the 2014 Farm Bill that was a problem with the program, requiring refiners who wanted to produce renewal chemicals from agricultural feed stocks to also producing an advanced biofuel which significantly limited that program’s effectiveness.

The 2018 Farm Bill fixed it, fixed that problem, by ensuring eligibility with these types of technologies and creating parity for standalone renewable chemical manufacturers. Can you give us an update on the agency’s work in this area and the implementation, how we will get to that fix?

Ms. BRAND. Yes. Thank you very much for that question, Senator. The Biorefinery, Renewable Chemical, and Biobased Product Manufacturing Assistance Program, indeed does include now the chemical, the balance, so that a facility could produce either both or one or the other, and that has been implemented through—will be—it has been implemented, and any applications that are on hand right now will be able to apply to any of those products, and it will be codified the spring of 2020.

Senator ERNST. Okay, and thank you again for working on that as well. It is really important to my home State, obviously.

With that, I will yield back time, Chairman.

Chairman ROBERTS. Senator Stabenow. Yes, we go Republican, Democrat, and that is how we work.

Senator STABENOW. I was going to yield to the Chairman, Mr. Chairman, but thank you very much. Thank you to all of you.

First to Mr. Rupe. The Farm Bill prioritized funding for communities that are dealing with water safety issues. I think none of us wanted to even have to learn what PFAS chemicals were, and now it is very serious. We are identifying real health hazards and communities are extremely concerned.

We identified this and made it a priority in the Farm Bill. However, this Administration has repeatedly proposed budget cuts of more than 50 percent to these critical water infrastructure programs, despite a large backlog of projects.

What is the status of this Farm Bill requirement and what kind of outreach are you doing to ensure rural communities know that the Farm Bill provides tools and resources to address contaminated drinking water?

Mr. RUPE. Senator, thank you for the question. First of all, I would like to reaffirm that last year we served over 2 million rural Americans with clean drinking water, and I think that is an important note. We processed \$1.7 billion worth of loan and grant re-

quests to serve rural Americans, and so I would not lose sight of that issue.

Now specific to outreach and communication, with the 2018 Farm Bill, we had an interagency task force on rural water quality that was established as a result of that, and earlier this year we met with public officials, stakeholders, and our Federal partners to begin reviewing what is needed to be able to support that issue. We plan to issue a report by December on our progress, related to that issue.

Having said that, within our program we specifically do address imminent issues and immediate dangers for communities through our ECWAG program—sorry for the acronym but we are riddled with them—but those types of programs immediately address needs for emergency situations, for people who have issues that are directly related to immediate health and safety risks.

Of the money that we obligated last fiscal year, we addressed 374 health risks out of the 500 projects that we did throughout the United States. I believe that we are actively engaging in outreach to our communities.

Senator STABENOW. I would encourage you to continue to do that. In Michigan, I think we may be ahead just because they did more aggressive identification than other places, but it is very alarming what we are seeing.

Mr. RUPE. Yes, and I was very happy to have visited Michigan last month and speak with a gentleman who was critical in helping address that. We have engaged with stakeholders in Michigan to help work on that aspect of it.

Senator STABENOW. Great. Ms. Brand, I wanted to talk a little bit about the Rural Energy for America Program, REAP, which, as you know, is one of the essential tools for improving energy efficiency and deploying alternative energy and combating the climate crisis. It is very popular in Michigan and I am sure in other areas, which is why we gave it permanent, mandatory funding in 2014.

Unfortunately, though, I have been hearing concerns that USDA is not promoting the program as it once was. What are you doing to ensure farmers, ranchers, rural small businesses are aware of the REAP program and the opportunities to apply for grants and loans?

Ms. BRAND. Well, thank you for that question. We have very much a team approach to outreach with the REAP program as well as our other programs, both at the national level, our national office team participates in national meetings. In fact, there was just the Federal partners that we partner with and provide outreach with but also stakeholders and national trade group meetings. The State offices work with their individuals in their localities to talk about the programs and help both farmer producers and small businesses understand the benefits.

I have been out in the State and anywhere from a small \$12,000 REAP announcement to a small business in Michigan, to also—and Virginia, an announcement where there was a hospital that benefited from solar panels and reduced their energy efficiency. I would say that we have done a lot and will continue to do more to make sure that people understand the benefits of that program.

Senator STABENOW. Thank you. Finally, I know I am running out of time, but Mr. Rupe, I want to ask you a question on rural broadband. Every single person on this Committee could tell you stories of the challenges because we do not have rural broadband. We made rural broadband a huge priority in the Rural Development Title of the Farm Bill.

Will the Administration advocate for full funding, the \$350 million, for the farm bill broadband program, as we go forward?

Mr. RUPE. Thanks, Senator, for the question. We share your concern for broadband access throughout rural America. It was central to the task force report that was submitted to the President shortly after the Secretary came on board, so it is central and we recognize that issue.

Having said that, I think it is important to recognize the full effort that we have engaged in that light. We have addressed it through the American Broadband Initiative, and through that American Broadband Initiative we are working with our Federal partners to address all of the issues, to help modernize delivery, streamline our approach, and more effectively leverage the Federal dollars that we spend.

Senator STABENOW. What Federal dollars, though? The issue has been there has not been enough of a priority in terms of Federal dollars, which is why we came together to prioritize it in the Farm Bill. I appreciate efficiency with what you have, but if we are going to actually grow the economy and quality of life in rural America, this is central. We are going to need the Administration weighing in very strongly to make sure this is a priority in the budget.

Mr. RUPE. Yes, ma'am. We are working very hard to fully deploy, first of all, the ReConnect funding that was appropriated. We are in the middle of offering awards out to many applicants throughout the United States. We received \$1.4 billion worth of applications on the first \$600 million that we received. Early next year we plan to offer an additional \$550 million that was appropriated by Congress in a second round of funding, and we anticipate having high interest in those programs as well.

In addition to that, we are very happy to provide technical assistance, if requested, to help address some of the issues associated with funding, and how we best approach that on an overall basis. We are actively engaged in marketing our programs to ensure that we effectively deploy them.

We also work very effectively and in a very friendly way with our partners at both the FCC and NTIA, to make sure that we understand where funding is needed, to where we can help leverage private investments, as well as Federal dollars and State dollars to help address this issue. We believe that by partnering with not only the private stakeholders as well as the nontraditional folks that would normally not be in the broadband business, that are expanding into that area, we think those are very effective ways to help leverage that partnership. It is not just a Federal Government solution but it is truly a community solution that is driven from the local level with shared partnerships and stakeholders at every level.

Senator STABENOW. Thank you, Mr. Chairman.

Chairman ROBERTS. I thank the Senator.

Mr. Rupe, you can take this on, and then any member of the panel that wishes to add anything that they think is pertinent, please feel free.

Last week, the Department notified the Committee of upcoming plans to close 11 Rural Development offices across the country. On behalf of the entire RD mission area, can the panel provide any update on this issue, discuss what, if any, impact this will have on constituent services in each State affected by a closure? Other than the two offices in Kansas, are there any other vacant offices in the country that have not yet been closed?

Please, sir.

Mr. RUPE. Senator Roberts, thank you for the question. The proposed office closures, I can say, will not negatively affect customer service for our programs. The States where office closures are occurring will continue to have multiple field offices, and our employees in those offices are able to identify a wide range of community and economic development resources for local leaders, business owners, families, farmers and ranchers, schools, nonprofits, co-operatives, and tribes.

There are other vacant offices in the country that have not been closed, and in any office closure proposal where employees are stationed, the following applies: no employees are losing their jobs, and relocations are offered if needed for an employee. RD is continuously evaluating the optimal location of staff and resources to serve the customer and deliver programs to rural communities.

I can affirmatively state that as a former career employee in the agency, as a former community banker where we did not have a Rural Development office in our community, and as a former State director, customer service is not simply a matter of having an employee in a certain office, but more of having a strong employee, with strong customer service skills, in the optimal location.

Chairman ROBERTS. Help me understand this. It is probably counterintuitive. The two offices that are being closed in Kansas are Garden City, Kansas, which is a thriving hub in southwest Kansas—I hasten to add, along with Dodge City, and Liberal—but Garden City is an area that is really experiencing a growth period, which is good news, of course.

The other city being Manhattan, Kansas, home of the ever-optimistic and fighting Wildcats. We are seeing a lot of growth there too, especially with the BRI there and then the national bioagriculture facility that is under construction. You are closing an office there and then perhaps providing your service to other areas, or you mentioned field offices.

People are asking me why—you know, why close in Garden City when they are on the move? Why close in Manhattan, because that is probably the central focus of agriculture in our State?

Mr. RUPE. Senator, I am happy to address that. I think that in any community when you want to see economic development and growth, that is the whole point of what we do. Having said that, I can address it from my perspective, from my hometown in Douglas, Wyoming, where we have a strong economy currently, and we still do not have a Rural Development office. There are plenty of services that are offered to the community where I come from, just as they would be in Manhattan or any other rural community.

Having said that, the last time that Rural Development had any major change was over 25 years ago, and if we all think back 25 years ago how much the economy has changed and how much corporations have evolved, for us not to evolve with that just does not make sense. I mean, we talk continuously about broadband and access and the changes to the economy by having modern technology. Our organization should take advantage of modern technology as well to deliver those services.

Again, I believe it comes back to having the right relationships and the right people in the optimal locations. It is not simply having an office location in any single community but more of having the right people in the optimal location who have great relationships with the local leaders and are willing to engage at the local level. I do not believe that you necessarily have to have your office in that certain spot to address every need, because we have a tremendous need throughout the United States and we cannot possibly have a location in every single community that needs it. We have to deliver our programs efficiently and effectively, and engage it to where everybody can take advantage of the development, not just certain communities.

Chairman ROBERTS. I appreciate that answer. Please keep us posted if we can be of help to you, when you think that maybe some of these decisions could be revisited or, as you have said, really provide the best service where it is vitally needed.

Let me ask you one other question real quick. How is the Rural Utility Service coordinating with the FCC on rural broadband issues? What is the most significant impact this coordination will have on rural broadband access?

Mr. RUPE. Senator, thank you for the question. I think it is important to recognize that we have a very strong and positive working relationship with the FCC. The Secretary of Agriculture, Sonny Perdue, as well as the FCC chairman have a great relationship, and that permeates down to the staff level. We meet with the FCC on a regular basis.

I think it is also important to recognize there are significant differences in the delivery of our programs. Whereas the FCC provides operational cost reimbursement in high-cost areas, we provide the capital construction costs to be able to build those services into a community. We have distinctly different missions and different funding methodologies to achieve that.

However, common to both of us is the fact that we have got to have good mapping to be able to determine where a service is and where it is not. I think the FCC has done a superb job this summer of working to try to improve their methodology for collecting data. We are working with not just the FCC but also with the NTIA and with private stakeholders and State-level governments to properly understand what is currently out there. What we have found when we have put boots on the ground, in going out and doing site validations, is oftentimes there is no single source that has the absolute correct data to be able to recognize who currently has service on a 24/7 daily availability at the FCC standard.

We are working diligently and we are meeting regularly to help accomplish that mission to where we can effectively deploy the Fed-

eral dollars and partner with private investments, so we truly can leverage and make the right impact in the right locations.

Chairman ROBERTS. I thank you for your answer, and again, please keep us posted. I know that Senator Stabenow and every member of the Committee is interested in this issue.

Senator Smith?

Senator SMITH. Thank you, Chair Roberts and also Ranking Member Stabenow. I want to just first, in addition to thanking you for being here today, just thank you so much for the topic of this hearing.

Since I have been Senator I have traveled all over my State, to small towns and rural areas, and I think a lot of times when we go to these parts of our States, and we all have them, we show up sometimes with this attitude of like, "Tell me all about your problems," instead of showing up and saying, "What can we learn?" "What are you doing that is working, that we can support here in Washington?"

With that spirit in mind, as I visit the communities in my State, I have been so inspired by the creativity and the innovation that I see. Certainly there are challenges, challenges that we can all work on here together, but also so many things that are going right.

It was with this spirit that I asked Senator Mike Rounds to join me in a rural economy working group, a bipartisan working group, that is really focused on lifting up what is working and figuring out what we can do to support it more. I wanted to mention that to my colleagues here today because I would welcome all of you participating in that conversation, as a way of moving forward the good news in rural communities and what we can do to support it more.

With that spirit in mind, I am really grateful to have a chance to talk with you all today, and I want to start, Mr. Lammers, with you, the issue that Senator Ernst started on, which is the issue of rural housing. We know what a big challenge this is in rural areas. It becomes an economic constraint, when rural communities that are growing jobs do not have the housing that they need for the workers who are wanting to live in that community. It is particularly a challenge in Minnesota for affordable housing in rural areas.

I want to hone in on the federally assisting—excuse me—the federally assisted housing units that we know are not in great shape and are aging quickly. Many of this problem is just a significantly big problem in rural areas.

I introduced a bipartisan amendment to the Agriculture Appropriations bill that the Senate recently passed, that would require the USDA to prioritize maintenance needs in rural housing units, and would also ask the USDA to strengthen enforcement against property owners who are failing to make the repairs that are necessary to those housing units.

So, Mr. Lammers, could you—I know you understand the importance of preserving these rental housing properties in rural areas. Could you tell us about how this will be a focus of the Rural Housing Service, going forward?

Mr. LAMMERS. Thank you for your question. Last year—and I, too, have, by traveling and seeing the people that we work with and the people that we help out in the communities, have learned a lot about the mission rather than what happens here in Washington, and it is inspiring to me to be able to be part of the mission that serves the rural communities, especially. We have got some great people throughout the country, and here in our offices in D.C., that are inspired to help.

Last year, we provided funding to preserve 216 housing units in, I think it was for 7,678 families that were able to continue living in what I would call preserved housing.

We are working on a restructure of the way we deliver services through multi-family, and our goal is to have more of a focus on pathways that deal with managing of risk and assessing how often we should inspect and how often we should enforce different properties—property owners. If a property is performing well financially, and management is onsite and is keeping the property up to date, we would probably look for less inspection if we have not had problems with it in the past.

It is a risk-based approach that we plan to implement. Right now we are reviewing the portfolio to see what percentage of our properties are in more need versus less need, but it is a process that is underway.

Senator SMITH. So let me ask you. It is my understanding that it is difficult to manage this enforcement because the Rural Housing Service does not currently keep track of the total number of inspection violations by property. Is that correct, and why wouldn't the USDA require this information to be included on the inspection reports?

Mr. LAMMERS. Well, thank you. I have been part of a—I visited a property in rural Colorado that had just received an inspection, and it was a couple that has owned a property for many years and they were quite welcome to what we had—what our inspectors had suggested. We do keep track. I think we need to do a better job, and the realignment that we are working on will allow us to do that, and to concentrate our resources where they are most needed.

Senator SMITH. Well, thank you. I look forward to continuing to work with you on that. Thank you.

Chairman ROBERTS. Senator Fischer.

Senator FISCHER. Thank you, Mr. Chairman. Mr. Rupe, you mentioned in your testimony, and although it is not a Farm Bill program, about the Broadband ReConnect Pilot Program applications, that they are now being awarded. I have several companies in Nebraska who have applied for that new pilot program over the summer. Can you give us some kind of status update on that new pilot program and describe how the processing of those applications and the award decisions have been progressing so far?

Mr. RUPE. Yes, Senator. Thank you for the question. I was very proud of the ReConnect Program and we thank you for your support of that program. We believe it is vital to be able to address the broadband issues that we see.

First of all, I share the belief with the Secretary that investments made through the broadband pilot program are going to be

critical to providing health care, education, banking, and job opportunities and open, vital markets for our farmers and ranchers.

I would like to emphasize that this is a pilot program, and, therefore, you know, we do not know all the right answers right out of the gate, and we took our time. We wanted to make sure that we delivered in a modern and efficient way. We opened that program for applications earlier this year, and we received 146 applications from 41 States throughout the U.S. for the total of \$1.4 billion on the \$600 million in appropriations from the first round of funding that we received from the appropriations bill.

We have worked very hard to make sure we had a modern delivery and decisionmaking system in there. If you go to ReConnect.usda.gov you can see the current status as reflected in any application and be able to pull up a map and it will show where service is proposed in any one area. We also gave current providers the opportunity to be able to challenge any service area that was proposed for service, so that when we put boots on the ground and verified whether or not that area currently has service we knew that we were speaking to the right people in the right location to make the right decision.

Having said that, we have started the award announcements for those, and we plan to have that fully completed by December, for the first round of funding. We have publicly announced some of them. We have many offers that are on the table for 27 projects so far, as of this morning, for a total of \$289 million worth of those funds in 20 States.

We are actively engaging in making our decisions and finding the right award opportunities and the right locations, and it changes on a daily basis, and we are working extremely hard to make that happen.

Senator FISCHER. Well, thank you. You know how important it is to be able to have broadband across this country. I like to say it is the No. 1 priority for infrastructure in the future if we are going to keep our rural areas vibrant, to make sure that governmental services are available, to keep people, young people there, because of the opportunities they will have with education, to keep older people there as they age and need to have possibly more medical care to make sure that that is available as well.

There are a lot of really cool things happening when it comes to especially the Internet of Things and that connectivity that is out there, and to be able to make these advancements, it is extremely important that we keep all citizens in this country connected to the future and what is available in the future.

Administrator Brand, in the 2018 Farm Bill we added some implementation requirements to the biofuel markets program. The USDA is required to establish an expedited approval process for products to be determined eligible for the procurement program and to receive a biobased product label.

Can you provide an update on where those efforts in the agency are right now?

Ms. BRAND. Yes. Thank you very much for that question. We are very happy to have the biobased markets program within Rural Development. It is a natural fit with many of our stakeholders. We have already fully incorporated them within our programs and

stakeholders. We have gone to meetings—the national office team has accompanied them on meetings. The program itself is up and running, fully functional within Rural Development, within Rural Business Cooperative Service.

Likewise, the regulations, we are in the process of writing those and finishing up those rules, and will have them available early in 2020.

Senator FISCHER. Thank you so much. Thank you, Mr. Chairman.

Chairman ROBERTS. Senator Casey.

Senator CASEY. Thank you, Mr. Chairman. I want to thank the panel. I am sorry I was here a little late for your testimony. I want to start with the topic you have heard so much about, broadband, and I guess to emphasize a couple of things that are coming in sharper focus now than maybe even before.

A number of years ago, after hearing a number of individuals in our State, public officials and others, asking about what we were going to do about rural broadband, and talking about the economic development impact, the business impact, the broader economic impact, one county commissioner finally made it clear to me. He said, “Senator, kids cannot learn without broadband,” that our schools, a big part of the problem was what was not happening in our schools. Over and over again I keep coming back to that.

Whether you are thinking about this in terms of economic growth or job creation or in the connectivity that has to precede that, or whether you are thinking about it in very basic terms, when it comes to children learning in school or not being able to learn, this is a huge challenge. I know that USDA has been working on this. I know that we have had a number of efforts made by both parties, both houses, and now two administrations, to begin to tackle this problem.

Unfortunately, with all the initiatives, all the programs, we are way behind. In my judgment, when it comes to rural broadband, we are failing. We are just not getting the job done, and we cannot allow that to persist.

We know that when it comes to both small businesses and farmers, and sometimes they are one in the same, without access, their profit margins are being adversely impacted. Farmers without access report missing out on technology to help increase their business. They may have to drive hours to deliver financial information to their accountants.

Rural residents are having trouble accessing information about government services. We do not talk about this very much. It is not just that the small farmer cannot access information sometimes about USDA, but cannot get information about Social Security, cannot get information about Medicare, cannot get information about filing their taxes, cannot get information about applying for jobs online. There is just a whole range of problems.

I know that USDA is working with other agencies on this, and I appreciate the work that you are doing.

There are others who come to us and say, “We want to make sure we can maintain our tax exempt status while receiving broadband funding,” and I know that Mr. Hayward, on another panel, will be concerned about ensuring that electric cooperatives

are able to utilize these programs focused on broadband and not be disadvantaged.

I guess the first question is by way of reiteration. I know you are repeating yourself because of this question, but give me, I guess, the most cogent update on where we are with regard to the rural broadband program, the ReConnect Program, and any other update you can provide.

Mr. RUPE. Senator, thank you for the question, and I think that it is also important to recognize that within our electric infrastructure loan program we also have investments for smart grid, which includes fiber, and if we think back to when this organization was originally formed, back in the 1930's, it was the electric co-ops that were formed that helped start electrifying America, and the Secretary and I definitely see this as a modern-day version of that.

Having said that, that is when I mentioned the non-traditional approach. If we continue to do the same thing over and over again without changing, we should expect the same result. That is why I say we are working very hard to find non-traditional approaches, while maintaining strong underwriting, good methodology to get the right information to the right location, to make the right decision.

With that, it absolutely makes a difference. We are more than happy to pair up, in any program, to help find the right solution if it is within our authority to do so and it makes sense for our applicants to take that approach. We have tried to be very flexible, and that is how we designed the ReConnect Program, to ensure that if someone has the capacity and they have willing partners to come to the table to provide that service that is so desperately needed in rural America, that has not yet been addressed through the private sector alone, we are more than happy to engage and make that happen.

We welcome the opportunity to do so through our program, so we are very happy and very pleased that you have been willing to support our programs to date.

Senator CASEY. I appreciate that. I just happen to represent a State which people think of as a State with big cities and a little bit of territory in between. We have got 67 counties; 48 are rural. We hear about this issue a lot.

I will, Mr. Chairman, submit a question for the record to Administrator Brand regarding the Healthy Food Financing Initiative, and I am out of time, but it is a great Pennsylvania model. I will submit that in writing, as well as others.

Thank you, Mr. Chairman.

Chairman ROBERTS. Thank you, Senator. Senator Boozman.

Senator BOOZMAN. Thank you, Mr. Chairman, and thank you all for being here to discuss the rural development title of the Farm Bill. The Farm Bill, for our State, as it is for so many other States is one of the most important pieces of legislation that we deal with here.

First of all, I want to thank you for the job that you all are doing. I had the opportunity to visit a lot with Rural Development in Arkansas. They are doing a tremendous job, and I really appreciate the support that you are giving them. Give yourselves a big pat on the back in that regard. Sometimes we hear lots of negatives but

we do not take time, again, when people are working hard, to try and help each other.

I do not really have a question about broadband since it has been brought up so much. I do want to reaffirm its importance. You know, sadly, in Arkansas, and throughout much of rural America, you see young people sitting in their cars, doing their homework, leaching the broadband from the local schoolhouse. That is not an uncommon sight. I would say it happens even in Upstate New York, so that is something that I think we all are certainly united on.

Let me ask you a question regarding the Rural Development Wastewater and Community Facility Programs, in the sense that in 2019, they are still required to utilize the American Community Survey, the 2006 through 2010 dataset, in determining the median household income of the project service areas for various loan and grant eligibility within the programs.

It is my understanding that Rural Development has not obtained an updated State non-metropolitan median household income from the Census Bureau for each State that must be obtained in order to use with a more current American Community Survey five-year dataset.

This is kind of in the weeds, but the question is, when will Rural Development begin using a more current dataset to determine the median household income of a project service area? The world has changed a lot since 2000 and 2010.

Mr. RUPE. Senator, thank you for the question. First of all, I think it is important to understand why we do that, and I think that we need to address that first. As far as why we do that, that is to ensure that we are being fair and equitable in how we handle the grant component of our loan program, where we can match that up to where we are not giving undue advantage to someone who has a lot of deferred maintenance in their system and refuses to charge their customers fair and reasonable rates to have a sustainable and functional, healthy drinking water and waste disposal system. That is the reason that we do that.

Second, we have to have equitable information, solid information, and the census is a way to do that. Because it is an every-ten-year census, it does create issues of challenges between what was and what is, because, as you said, a lot can change in the course of eight years, as we have seen.

The good news is that we have a great economy and the economy is the best in my lifetime, and I think that is a good-news story that is worth stating. Because of that, we have seen the ability of people to improve on their systems and have a healthier and livelier economy because of that.

With that said, there is an opportunity for us to help improve in how we deliver that and make those decisions, and by having access to more current information would definitely be helpful. The ability to be able to improve on that, we are more than happy to take a look at and work on, and we can work with you as we move forward to help—

Senator BOOZMAN. We appreciate that, and we really would like to work with you. There are similar programs throughout govern-

ment that depend on this same sort of data. Where you get in trouble is these out years, as you get so far out.

Mr. RUPE. Yes, sir.

Senator BOOZMAN. Again, in a very changing time in rural America. Thank you, Mr. Chairman.

Chairman ROBERTS. Let me ask a question of Mr. Lammers here, that I intended to ask before. My apologies to Senator Gillibrand. Nice to have you back. I will do this real quick.

Mr. Lammers, this question is for you. One of the top priorities in the rural development title of the 2018 Farm Bill was to try to prioritize our community facility funding for the construction, or the improvements to addiction treatment facilities which address the problem, or the epidemic that we are experiencing with opioid addiction.

In Kansas, we had a unified effort with law enforcement to close down a lot of meth labs. Today we find, in many States, that does not exist anymore, but still the product comes through, now straight from Mexico, probably from China. This is a much stronger situation with meth.

We just had the district attorneys of Kansas in, and I asked them what their No. 1 question was. I did not expect this, but for the second year in a row they said meth, clogging up law enforcement, clogging up the courts, and obviously causing great pain to many families.

My question is, what kind of demand has USDA seen for funding of these types of health facilities and how is the Department educating our communities about the resources available, if any, at the Department to help fight addiction?

Mr. LAMMERS. Thank you for your question. I have seen firsthand, in some of my visits around the country, the issues that exist, specifically touring Kentucky and Tennessee. I toured a jail that was under construction, and the main reason for that jail was because of incarceration because of addiction. There is definitely demand.

We have financed about 37 projects in 15 States that have contributed to either the treatment or prevention of substance abuse. Our staff has been out working, trying to make sure that people understand that under the Community Facilities Program, we are able to finance those treatment facilities. So thank you.

Chairman ROBERTS. This is a problem that is not going to go away any time soon, but we really have to mount an intensive effort to be of help, and thank you for your work. Senator Gillibrand?

Senator GILLIBRAND. Thank you, Mr. Chairman. It is a delight to be back.

Ms. Brand, I was proud to pass my bipartisan Rural Jobs and Investment Act into law as part of the 2018 Farm Bill reauthorization. This legislation made multiple reforms to the rural development title to reverse declining rates of rural entrepreneurship in recent years, and create quality jobs across rural America. These reforms included multiple improvements to USDA's Rural Business Investment Program to expand access to equity capital that is nearly nonexistent in rural areas. Rural entrepreneurs are in desperate need of this capital to start and grow businesses.

The Farm Bill also included a new program that I proposed, the Rural Innovation for Stronger Economy, or RISE, grant program, which authorizes grants of \$500,000 to \$2 million each, to locally driven rural jobs accelerator partnerships, made up of entrepreneurs, local leaders, investors, and job training providers so they can work collaboratively on improving their local economy and positioning their region to be more competitive.

Can you please provide a status update of implementation of the Rural Business Investment Program reforms and the newly created RISE grant program?

Ms. BRAND. Yes. Yes, ma'am. Thank you for those questions.

First, the Rural Business Investment Program, we are in the process now of writing the rule and the changes needed, and some of those have been made through administrative notices, but the rest of them will be finished in early 2020.

With regard to the RISE program, the grant program, we are excited to be able to look at that as an opportunity, as a rural jobs creator or accelerator partnership, and we are awaiting funding to be able to implement that program, however.

Senator GILLIBRAND. Thank you. The Rural Business Investment Program is modeled after the SBA's Small Business Investment Company, SBIC, program, and I am aware of a memorandum of understanding signed by USDA and SBA to better coordinate the delivery of their programs to assist rural entrepreneurs. Improved coordination between SBIC and RBIP programs should be part of this MOU in order to mobilize more capital for rural businesses. Can you commit to working with the SBA on dedicated efforts to prioritize the certification of more SBIC funds as the Rural Business Investment Companies through the USDA and more RBICs as SBIC funds?

Ms. BRAND. Yes. Thank you for that question. Certainly we—and we already have been. That MOU has been in existence for almost two years now, and we have already been working jointly with SBA on outreach and reaching out to investors across the country, as well as trying to streamline the application process to make it easier for them to be in one or both of the programs.

Senator GILLIBRAND. Thank you. I recently introduced legislation, the Rebuild Rural America Act, which creates a rural regional block grant that awards dedicated annual long-term funding to implement locally driven economic and community development strategies. Rural communities face complex challenges that demand comprehensive solutions and long-term planning, but the current Federal grant system is too narrow and inflexible to truly address their specific needs.

Larger cities have benefited from this kind of investment for decades in the form of community development block grants. My bill would create a similar dedicated pool of funding provided through five-year, non-competitive, renewable block grants.

How are your programs currently helping rural communities build greater capacity to advance local plans for community and economic and development, and do you see value in long-term, non-competitive block grant programs that complements the existing competitive grants and financing programs currently available through the USDA Rural Development?

Ms. BRAND. Thank you again for that question. We—one moment, please. Let me catch up with you on—so we are working with Rural Development State councils and also to deliver those programs, and right now we are in the process of working—reviewing that and writing the rule, and we will be working on that throughout and the beginning of 2020.

Senator GILLIBRAND. That is great. Thank you, Madam Chair—Mr. Chairman, and Madam Ranking Member.

Chairman ROBERTS. I appreciate that. It would appear now that, a big thank you to our first panel. Thank you for coming. I appreciate your testimony and insights. Very helpful to the Committee.

I would like to welcome our second panel of witnesses before the Committee, and thank you again to the first panel.

Mr. RUPE. Thank you, sir. Thank you, ma'am.

[Pause.]

Chairman ROBERTS. Is everybody settled? Thank you all for coming. We really appreciate it very much.

Senator Hyde-Smith, you are right in the nick of time to introduce the next witness—the first witness.

Senator HYDE-SMITH. Thank you, Mr. Chairman, and thank you for convening this hearing to review the U.S. Department of Agriculture's implementation of the rural development and energy provisions in the 2018 Farm Bill.

Farm bills provide us with an opportunity to go back and periodically address and look at an array of programs and issues of importance to rural America, and especially in places like Mississippi.

The Senate Agriculture Committee has an equally important responsibility to provide oversight to ensure USDA implementation of the law is timely, consistent with congressional intent, and meets the needs of our constituents, but I certainly appreciate these outstanding witnesses being here today.

I would like to give a warm welcome to Mr. Keith Hayward, here on the end, the CEO of North East Mississippi Electric Power Association, based in Oxford, Mississippi. During Mr. Hayward's 32 years of service, the North East Mississippi Electric Power Association has grown from providing electricity to 10,000 homes and businesses to providing power to approximately 27,000 today. I am proud that this association continues to be one of the fastest-growing electric power cooperatives in the entire country, doing an outstanding job.

Again, Mr. Hayward, thank you for taking the time to come to D.C. and be with us today and to share your knowledge and insights and ways to improve the rural lines that we have here in this country.

Mr. Hayward, there has been a tremendous amount of attention and resources directed toward rural broadband deployment in the 2018 Farm Bill and in recent appropriation bills. One program, in particular, is the ReConnect grant, and it is the loan program administered by USDA Rural Development, and I understand your power association has shown a considerable amount of interest in participating in this program.

Will you offer some insight as to how this program is helping North East Power Association meet the needs of the customers and bridge that digital divide that we so many times experience? What

recommendations can you offer on how we could improve, to better meet the needs of the people of rural Mississippi and around the entire country?

Mr. HAYWARD. First, thank you for that introduction and thank you for your dedication to the State of Mississippi. It is very well thought of.

As far as the ReConnect program, we did apply for the grant-only program. There were some experiences with some difficulties and some rulemaking. In particular, in our area, we have one of the more vibrant areas of Mississippi around Oxford, but we have a great deal of unserved territory, which qualify for the grant application.

One of the problems we had is we have the mapping system that has been discussed here earlier, that is really not very accurate but it is the best that we have. We are taking government data that has been provided through the FCC, that the USDA got, and they give us the territories that we can apply for.

One of the stipulations in the grant program was the fact that it was a 100 percent that could not have any N1 service, and a 100 percent mark is very hard to reach. It is perfect. We actually set up a phone bank of 1,200—and called 1,200 of our members that were in the territories that we were given, to try to figure out if we had somebody out there that may be getting service that was not on the map or that we did not know. Because if there was just one challenge then the way the grant was written, that the whole grant would be disqualified.

We were spending thousands of dollars to apply for this grant, and much like the loan programs, they were a 90/10 percent. One of the problems we had was trying to make sure—and we do not know to this day. We have not received word. We do not know to this day if some of the—if there were some people out there that maybe we did not know about or got service in between the time that we applied for the grant.

The other issue that we had is we feel like that through some of the stimulus money there have been several systems that have demonstrated that they can put fiber in the electric space and own the fiber as part of the electric company. We feel like that the electric GFRs, at RUS are not being—they need to talk with the telecoms. I think we are getting a lot of the telecoms are writing some of the rules, and they need to understand our business, because we figured out a way to do it differently. If we are going to serve rural, unserved, sparsely populated areas, our structure is different than the telecoms. That has been demonstrated through some other utilities that are out there doing that, and we feel there needs to be a little bit more collaboration between the two different departments within the USDA.

Those are the two main concerns. I had one more. If you will pardon me just a second.

[Pause.]

Mr. HAYWARD. Oh. I am sure we will talk about this later, as I get into some more testimony. The RUS ReConnect program was a 10/1 service minimum. FCC is a 25/3. You know, when I talk to my constituents, the first thing I ask them is, “Can you give me a definition of broadband” because we have changed the definition

of broadband so many times, and by the time we write a new definition of broadband it seems like it is out of date.

I do feel like if there is another program it needs to be at least 25/3. What we are looking at offering our customers is fiber to the home, which will offer up to a gigabit service, because we are building for the future. That is the way we do for the electric co-op, that is the way we have done for the past 85 years. We build something that is going to stand the test of time.

As you talk to customers and we have rolled out these surveys and we find people that are trying to run small businesses on their homes, on their data plans, on their cell phones, or trying to do their homework—I am in a college town and we have several students, we have professors that are having to—they are sending out their information on video now and people taking classes at school. The speeds are getting exponentially faster and faster and the need for data is getting more and more out there.

You know, much like Tennessee and Chattanooga, you know, they got gigabit service. I want my members to have gigabit service also, and that can only be done through fiber.

Senator HYDE-SMITH. Thank you very much.

Chairman ROBERTS. At this point I think we will introduce the next witnesses.

Senator Ernst was looking forward to introducing her next witness, Mr. Bryan Sievers. She is not here. Somebody conducted a study some years back and said that Senators are supposed to be two places at the same time over half the time. I think we are going to add three to that now.

Anyway, we are happy to welcome Bryan. Bryan and his wife, Lisa, are the current owners and operators of Sievers Farm, a 2,300-acre, 2,400-head beef cattle feedlot, and renewable energy facility, located in western Scott County, Iowa, which is near Stockton.

The Sievers Farm boasts a 1-megawatt combined heat and power system fueled by methane produced from two anaerobic digesters, utilizing beef cattle manure, agriculture processing waste streams, cover crops, and other co-feeds. The electricity that is generated is sold to their local service provider.

Bryan is a 1982 graduate of Iowa State University, home of the Cyclones, with a degree in agriculture business. Bryan, Kansas State will play Texas. After we play Texas we come up there to play you. Just take it easy on us, will you?

Leader McConnell has already introduced Mr. Michael Stanley.

And for the last witness I turn to our distinguished Ranking Member, Senator Stabenow, for her introduction.

Senator STABENOW. Thank you, Mr. Chairman. Last but not least, I am so pleased to have Dr. Jeff Dwyer with us at the hearing. He joins us at the Director of Michigan State University Extension and the Senior Associate Dean of Outreach and Engagement of the MSU College of Agriculture and Natural Resources.

At MSU Extension, Dr. Dwyer leads 600 faculty and staff with the goal of improving quality of life in rural Michigan. He has worked to expand access to health care in Michigan, through addressing the opioid epidemic, drinking water issues, farmer stress, and mental health.

Before this role, he served as a Senior Associate Dean in MSU's College of Human Medicine.

Welcome, Dr. Dwyer. We are so pleased you could join us.
Chairman ROBERTS. Mr. Hayward.

**STATEMENT OF KEITH HAYWARD, GENERAL MANAGER AND
CEO, NORTH EAST MISSISSIPPI ELECTRIC POWER ASSOCIA-
TION, OXFORD, MISSISSIPPI**

Mr. HAYWARD. Thank you, Chairman Roberts, Ranking Member Stabenow, and members of the Committee, and thank you once again for the introduction. Congratulations on the recent passage of the new farm bill, and thank you for the opportunity to testify on its implementation.

The farm bill is essential to electric cooperatives because it contains tools we use to keep the lights on in rural America, deploy broadband, generate and distribute electricity of renewable sources, modernize the grid, and promote economic development in the communities we serve.

For decades, the Rural Utility Service Electric Program has been our foundation, providing low-cost financing to co-ops for installing and maintaining the grid. It has been the most important rural development tool in this country's history. In addition, about half of all electric co-ops also borrow from private cooperative banks like CFC and CoBank. The Farm Bill reauthorized and maintained these important programs which gives us healthy options for financing the work we do.

In addition to our electrification work, cooperatives play a vital economic development role in the communities we serve. Since 2009, Mississippi co-ops have conducted around \$25 million in rural economic development loan and grant, or REDLG projects. We believe the REDLG program remains a viable tool in offsetting population flight and job loss in Mississippi and around the country. The recent Farm Bill includes needed changes to the REDLG program to provide secure funding into the future.

In the 21st century, there is perhaps no more important rural development challenge than providing broadband internet. As this Committee knows, deploying broadband infrastructure in sparsely populated areas is very costly, so much so most of our members are lagging their urban counterparts.

My co-op recently approved a plan to bridge that digital divide by offering fiber-to-the-home broadband with up to gigabit speeds to 100 percent of our members. Our goal is to begin offering service as soon as next year.

We are enthusiastic about the farm bill's inclusion of the new loan grant program for rural broadband, building on the USDA Re-Connect pilot, of which we are an applicant. We have experienced technical and rural-related challenges throughout the application process, which I hope to talk more about. We are committed to working with Congress and USDA to provide feedback on suggested amendments.

Continued government funding to reduce the up-front capital investment will remain essential to the expansion of broadband throughout rural America.

Just as broadband is key to the 21st century economic development, communication infrastructure is essential to operating a modern electric grid. The main challenge of distribution co-ops is to meet the electricity demands of customers as efficiently as possible so that every time you flip a switch the light comes on. Broadband in the grid lets us know a lot more, a lot faster about what is going on, on our system. If you want fewer outages, more renewables, less expensive and better security from cyber attacks, broadband in the grid is key.

As you continue to think about development of retail broadband, do not forget about this separate smart grid component. They look alike but they work differently, for different purposes.

The last thing I would like to mention is an issue not directly under your jurisdiction but will affect programs you oversee. In short, an unintended consequence of the 2017 tax law threatens our tax-exempt status if we accept FEMA reimbursements after a natural disaster, a broadband grant, or other Federal assistance. This is an existential threat for electric co-ops. A special thanks to Senator Smith who is leading the effort to fix this problem, and thanks to many of you for supporting her bill.

Thank you for a successful reauthorization of the farm bill. We look forward to continuing to work with you, and I welcome your questions. Thank you.

[The prepared statement of Mr. Hayward can be found on page 48 in the appendix.]

Chairman ROBERTS. Thank you, Mr. Hayward. Mr. Sievers.

**STATEMENT OF BRYAN SIEVERS, MANAGER, AGRIRENEW,
GLENORA FEED YARD, AND SIEVERS FAMILY FARMS,
STOCKTON, IOWA**

Mr. SIEVERS. Thank you, Chairman Roberts, Ranking Member Stabenow, and members of the Committee, and thank you for asking me to testify at today's hearing focusing on the implementation of the energy title of the 2018 Farm Bill.

By way of background, my wife, Lisa, and I own and operate Sievers Family Farms near Stockton, Iowa. We are fifth-generation Iowa farmers that run a 2,400-head beef cattle feedlot. We produce corn, soybeans, and hay on approximately 2,200 acres. Finally, our farm operates two complete-mix anaerobic digesters where we produce biogas that is used to generate renewable electricity, which is sold to Alliant Energy, our local service provider. We also produce reclaimed heat, which is used to heat our digesters and other buildings on our farm.

For generations we have focused on stewardship and conservation of our natural resources in our operations, and have implemented numerous water quality and soil health practices over the years, including grassed waterways, field borders, buffer strips, terraces, contour-farming, no-till and strip-till, grid soil sampling, and cover crops, much of which have been supported by the programs that have been implemented through the USDA and this Committee, as well as Congress.

I also serve on the board of the American Biogas Council, which is the only national trade association representing the entire biogas industry in the U.S. We represent over 200 companies in all parts

of the biogas supply chain who are dedicated to maximizing the production and use of biogas from organic waste. The ABC is, in turn, a member of the AgEnergy Coalition, a group of organizations committed to a strong, bipartisan energy title. The ABC and the AgEnergy Coalition believe that strengthening rural America and on-farm economies are two key ways to advance the deployment of renewable energy and the production of biofuels and renewable chemicals.

I come before you today to urge the Committee to continue closely overseeing the implementation of the 2018 Farm Bill. This important piece of legislation contains many programs intended to help farmers diversify their income streams. In the midst of trade wars, horrible planting weather and harvest weather, and the Administration's actions to undermine the renewable fuel standard, the farm bill energy title programs continue to provide value to farmers, agricultural producers, and small rural businesses.

American farmers and rural communities are hurting. While U.S. farms' net income is forecast to actually rise in 2019, these challenges are squeezing farmers between decreasing commodity prices caused by the demand destruction as a result of the ongoing trade war with China and the gutting of the RFS, caused by issuing more small refinery exemptions for the RFS than ever before. In both cases, the Trump administration's action have dramatically decreased the value of several of the products we and our fellow farmers produce, and that dramatically reduces the revenue we need to keep operating our farms.

Members of Congress have labored over numerous farm bills to craft policies that minimize the fluctuations caused by commodity price volatility. As members of this Committee continue to implement the 2018 Farm Bill, we ask members to keep in mind the value of our 21st century biobased economy, which can help offset some of the earlier-discussed headwinds which are affecting our farms, families, and the ag economy.

Chief among these policies is the farm bill energy title, or title IX, which creates high-value jobs and new income streams for American farmers, accelerates the commercialization of new technologies and products derived from agriculture, and supports construction of biogas systems and biorefinery manufacturing facilities in rural communities.

Conventional and advanced biofuels, including renewable natural gas which is derived from biogas, chemicals, and biobased products made with biotechnology can drive the demand for crops, including cover crops, and perennial crops, as well as crop residuals. This can boost on-farm revenue.

As a stakeholder, the ABC was very grateful to participate in the process of helping to craft the 2018 Farm Bill. Overall, we are very thankful that the bill contained an energy title with some mandatory funding. However, in total, mandatory funding has decreased significantly from \$694 million in 2014, to \$375 million in 2018. That is a decrease of 46 percent.

Alternatively, the total discretionary authorization provided by the 2018 Farm Bill, which was \$1.7 million, is approximately 13 percent more than what was authorized in the 2014 Farm Bill for the energy programs. While the latter increase sounds positive,

most energy title programs did not receive discretionary appropriations under previous appropriations bills, something that should change. We urge the Committee to make up for this decrease in mandatory funding by strongly supporting the full annual funding of the discretionary amount authorized.

We are especially pleased to see the Committee recognize the role that anaerobic digesters can play in the on-farm economy by establishing section 9111, the Carbon Utilization and Biogas Education Program. While anaerobic digestion technology is mature, greater deployment throughout the rural economy has been slowed due to the lack of awareness and farmer education about how they work and their benefits.

Digesters are one of the greatest methods available to trap methane-emitting waste products, such as manure and crop residues, and convert it to renewable energy, nutrient-rich soil amendments, fertilizers, renewable natural gas, and feed stocks for renewable chemicals and bioplastics. Providing greater education and outreach to farmers and agriculture producers could greatly increase the deployment of digesters as well as the utilization of the farm bill energy title programs that support digesters.

We urge the Committee to support fully funding the \$2 million authorized annually for this program. While we celebrate the establishment of this program and are hopeful to see it funded, we remain very disappointed that priorities highlighted by the Committees in the conference report, such as the Biogas Opportunities Roadmap Task Force, have not been acted upon by the USDA. This provision states that no later than 180 days after the date of enactment of the Agriculture Improvement Act of 2018, the USDA Secretary, in coordination with the Secretary of Energy and the EPA Administrator, will establish an Interagency Biogas Opportunities Task Force to coordinate policies, programs, and research to accelerate biogas research and investment and cost-effective biogas systems. This task force can help the industry provide resources for potential new on-farm digester projects to ensure that they are designed, developed, engineered, constructed, and operated so they can succeed. The lack of forward progress on——

Chairman ROBERTS. Mr. Sievers, if you could wrap this up here it would be helpful.

Mr. SIEVERS. All right. I will do that—can be very helpful as we move forward with the implementation of the Farm Bill.

I will place the remainder of my testimony, which speaks more in depth about the 2018 Farm Bill energy program, on the record, and I am happy to answer any questions you might have.

[The prepared statement of Mr. Sievers can be found on page 54 in the appendix.]

Chairman ROBERTS. Thank you, sir. Thank you for your testimony. Mr. Stanley.

**STATEMENT OF MICHAEL STANLEY, CEO, GRACE HEALTH,
CORBIN, KENTUCKY**

Mr. STANLEY. Senator Roberts, thank you for your invitation to testify at this hearing, and also I am humbled by Senator McConnell's earlier remarks.

As CEO of Grace Health, I want to share my appreciation for the USDA Distance Learning and Telemedicine grant awards. We were awarded, in 2011, 2016, and most recently the 2018 Telehealth Equipment Funding for \$650,000, that includes \$154,000 in matching funds. We were able to add an additional nine school-based health sites, seven clinics, and six nursing home sites.

Grace Community Health Center, doing business as Grace Health, is a federally Qualified Health Center with primary care clinics serving Southeastern Appalachian Kentucky. Grace Health's priority is to serve the most vulnerable populations, including children, older adults, pregnant women, and people with low income. We accept Medicaid, Medicare, and private insurance but also provide services on a sliding fee scale to those who are uninsured or under insured.

For Grace Health's USDA DLT project, the service area is located in southeastern Kentucky, near Virginia in the east, and bordering Tennessee in the south, and includes Bell, Clay, Knox, Leslie, Owsley, and Whitley counties. All of our service area counties have been designated as part of the federally designated eastern Kentucky Promise Zone, designed to encourage economic and educational development in one of the Nation's most impoverished areas.

The counties are also designated as USDA StrikeForce Zone. The service area is located in the Eastern Coal Field region of the State and is comprised of rugged terrain composed of soaring mountains and verdant valleys.

Grace Health sees telemedicine as an opportunity to improve the work environment for our health care providers and thus assist in provider retention. Innovative strategies such as telemedicine provide access to resources and support for both the patient and the provider, giving the provider a more realistic chance of "making a difference" that is not always possible when these resources are not accessible.

Grace Health has identified four needs to be addressed through telemedicine: (1) access to health care providers and services; (2) transportation; (3) behavioral health treatment, including mental health and substance abuse treatment; and (4) patient engagement.

To meet these needs, Grace Health has expanded telemedicine to 33 sites, including six primary care clinics, one women's health clinic, 19 school-based health centers, seven nursing homes, and one hospital. Services include primary care, consultations, behavioral health, and patient engagement. With telemedicine, rather than traveling to different clinics for different services, patients are able to access most of the services that they require at a clinic in their own community.

Using telemedicine, Grace Health's mental health providers have increased the number of patients served. Through telemedicine, our behavioral health providers have access to all of our primary care clinics as well as all of our school-based health centers. This increases the efficiency of our providers and greatly enhances services. Grace Health has improved patient engagement by increasing access to care, providing supportive services, and providing warm handoffs through telemedicine.

Access is the most basic form of patient engagement. Telemedicine helps us to increase our access points for services. When it is easier to access care, patients are more likely to receive the services that they need to manage their health.

As of July 1, 2019, Kentucky's new telehealth rules for Medicaid and commercial health help sustain telehealth programs through reimbursement of telehealth services. Kentucky is now a telehealth parity State. If a clinical encounter is reimbursable when conducted in a traditional in-person visit, that same encounter will be reimbursable when conducted via telehealth technology. This includes all services, providers, and locations, and the value of a telehealth encounter is equivalent to a traditional in-person encounter, unless the payer and provider have negotiated a reduced payment rate.

In my personal opinion, telehealth is part of the answer to our primary care physician shortage in the rural underdeveloped areas of our country. I am grateful for the opportunity to partner with the USDA DLT program, and I am committed to the success of this program that will improve the health care outcomes of your constituents that are our patients.

[The prepared statement of Mr. Stanley can be found on page 66 in the appendix.]

Chairman ROBERTS. Thank you, Mr. Stanley. Dr. Dwyer.

**STATEMENT OF JEFF DWYER, Ph.D., DIRECTOR, MSU
EXTENSION, EAST LANSING, MICHIGAN**

Dr. DWYER. Thank you, Senator Stabenow, for your kind introduction. Chairman Roberts, Ranking Member Stabenow, and distinguished members of the Committee, thank you for this opportunity to testify about the importance of strengthening health services in rural America.

In addition to my roles at Michigan State University, I have the privilege of living in Alger County, a community of less than 10,000, on the shores of Lake Superior, and the gateway to the Pictured Rocks National Lakeshore. In Alger County, as in other rural areas, one in four residents are 65 or older. We have significant concerns about suicide at all ages, and there are ongoing challenges with substance abuse and retaining jobs with a livable wage.

Thanks to your efforts, my community will benefit from the distance learning and telemedicine program authorized in the 2018 Farm Bill. Through that grant funding, the purchase of new 3D mammography equipment will improve cancer detection by 40 percent over the current 2D technology for my neighbors.

This summer, I spent 15 weeks on the road visiting staff and stakeholders in all 83 Michigan counties. I saw the ongoing challenges and risks that farmers take to feed the world. One farmer told me, "I will be putting half a million dollars into the ground when weather permits, and I have no idea what is going to happen."

This is why the Cooperative Extension System needs to build on our 100-year reputation of serving rural audiences through agriculture education programs and integrate it with programming emphasizing behavioral health and chronic health conditions.

After observing an uptick in attempted and completed suicides in rural areas three years ago in Michigan, specifically among farmers and farm workers, we changed our approach. We have more than 600 faculty and staff members, most of whom have completed Mental Health First Aid training. Lives have been saved as a result. We developed four programs designed to help farmers and those who work in agriculture learn to identify the warning signs of stress, approach people suffering, listen empathetically, and find resources.

Our experience in farm stress management and community behavioral health models the emerging role that Cooperative Extension needs to play in health care today. The farm bill's emphasis on telemedicine and greater access to reliable broadband will help provide increased opportunity at the nexus of direct clinical services and community-based health education in rural communities.

We need to do this in collaboration with physicians, nurses, and other health care professionals. Yet recruiting and retaining health professionals means ensuring that rural communities are places where these providers want to live, work, and raise their families.

Finally, research on the social determinants of health affirms that social and economic conditions contribute significantly to health outcomes and that rural residents are often disadvantaged on these dimensions. Adequate incomes, jobs, affordable housing, quality education, and other factors directly impact health at the individual and population levels.

Two years ago, this Committee held a hearing in Michigan as you prepared the 2018 Farm Bill. As producers of more than 300 commodities, Michigan farmers' voices are critical in any discussion about agriculture and the health of our communities. I appreciate the time you took to listen and for the opportunity to continue the discussion today.

At Michigan State University and MSU Extension, we are doing what we can to support rural residents. By working together with this Committee and other partners on the Federal, State, and local levels, I believe we can find more ways to provide the services people need.

Thank you again for your time and the opportunity to address the Committee. I look forward to answering your questions.

[The prepared statement of Dr. Dwyer can be found on page 81 in the appendix.]

Chairman ROBERTS. We thank the doctor. Senator Stabenow.

Senator STABENOW. Thank you, Mr. Chairman, and thank you to all of you for coming and for your testimony today. I specifically wanted to ask Dr. Dwyer and Mr. Stanley more in terms of health care, particularly behavioral health. We know that many challenges in health care—keeping our rural hospitals open, getting providers—are even more difficult for behavioral health, mental health, addiction services in rural communities.

In 2016, the CDC reported that the suicide rate for male farmers had doubled since 2012. Last week, data from the U.S. courts revealed that farm bankruptcies are up 24 percent from last year alone, an incredible amount of stress.

Farmers need tools, as you have talked about, to manage stress in the face of market uncertainty. We worked very hard to get a

five-year farm bill to create some certainty for our farmers and rural communities, but we know right now that they are challenged on every front.

I also think that it is very important that when we talk about health care we are talking about health care above the neck as well as below the neck. This is something that I care very deeply about. As you mentioned, expanded telemedicine grants, farm stress assistance, and expanded support for community facilities to address opioid addiction and mental health services are important to address these issues.

Dr. Dwyer and Mr. Stanley, specifically—anyone else is also welcome to respond— could you provide a little bit more context of what we should be doing to improve mental health and addiction services to rural families and farmers? Dr. Dwyer.

Dr. DWYER. Thank you, Senator Stabenow, for the question, and I would just add to the data you shared that farmers and farm workers have the highest death rates due to stress-related conditions such as heart disease, hypertension, ulcers, and nervous disorders. We need to pay attention to the whole person, and we completely agree with that.

The additional enhanced support in the farm bill through telemedicine and broadband allows us to have the potential to provide more mental health care online. The research shows that for most people online health care is a viable and effective alternative to face-to-face therapy, and you have provided the opportunity for us to provide people with greater access in that regard.

We can link that to the farm stress assistance, and that is why we feel strongly at Michigan State University that our next step in the domain of farm stress is to train all mental health providers to understand the unique challenges of farmers, farm families, and rural communities.

If you are from an urban area and you do not understand the challenges of farm succession, and the difficulties that families face in that domain, you need to know that in order to be able to provide effective care.

The other thing I would say, Senator, is that you have done a great service by including these programs in the farm bill. One of the things we find in mental health care and stress-related disorders is that we do not talk about them enough. By this Committee, and the full Senate, in all of the positions that you hold, acknowledging that farm stress, that mental health, that depression, that opioid misuse, all of those things are not only important but something that is important enough for us all to invest in. That level of awareness is very important, and we appreciate it a great deal.

Senator STABENOW. Thank you. Mr. Stanley?

Mr. STANLEY. Senator Stabenow, thank you for the question, and most of all thank you for your support of community health centers.

Senator STABENOW. Yes.

Mr. STANLEY. Telemedicine allows our behavioral health providers to provide services to rural patients, with opiate and other addictions in our more remote clinics. It enables providers to reduce windshield time, driving to clinics where only a few patients

would be seen on a given day, allowing behavioral health to see more patients via the telehealth modality.

As you may be aware, many of our small rural communities have been devastated by the opiate addiction, and availability of behavioral health support is critical in allowing our patients to learn the coping skills necessary for a successful transition to sober living.

Our behavioral health providers also support family members during recovery, as children, parents, and family members struggle with their loved ones who are caught up in addiction. Vulnerable children are especially impacted, as they must deal with feelings of resentment toward their family members, while the impact of the addiction leads to further trauma for the child, setting up a potential cycle of substance abuse passed down through the family, maintained by repeated victimization and withdrawal from others due to feelings of shame.

Breaking this cycle requires intensive therapeutic support, often in conjunction with medication-assisted treatment by our medical colleagues. The ability to provide integrated treatment through collaboration is a critical component of the treatment process, as it allows for consistent provider messaging with a focus on improving outcomes for the challenging population due rates of comorbid psychiatric and medical disorders.

Too often individuals with substance use disorders are isolated in outpatient and residential treatment centers which relies heavily on single elements of care, such as solely medical treatment or counseling or housing support. Barriers to treatment are further encountered in rural communities, when providers and access to integrated treatment modalities are scant. Integrated treatment allows providers to work together for patients in chronic pain, teaching self-management skills to a population at risk for developing addiction.

Another risk population, that of pregnant mothers abusing drugs, can benefit from a coordinated care program that increases the chance of an infant remaining with its parents after delivery. When patients return home to their communities, therapeutic support becomes a necessity for parents, dealing with the challenge of raising a child while engaged in treatment for substance use disorder.

These types of special populations are almost a commonality in our rural communities, and we need all the resources available, including telehealth capacity, to treat populations that are especially vulnerable to substance use disorders. Therefore, telehealth allows our behavioral health team to maximize their impact and transcend barriers to care. Thank you.

Senator STABENOW. Thank you very much, and I know my time is up, and, by the way, Mr. Sievers, I want to followup with you about our digesters and so on, because I am very interested in how we can support efforts to expand even more on what you are doing. I did want Mr. Stanley just to indicate that we, Senator Roy Blunt and I, are working on an effort you may be aware of on behavioral health centers, to comprehensively be able to do what you are talking about between health centers and behavioral health in the community, and getting people out of jails and the emergency room to actually receive treatment. We have some real opportunities to move forward on that and I would love to work with you.

Mr. STANLEY. Thank you.

Chairman ROBERTS. Senator Braun.

Senator BRAUN. Thank you, Mr. Chairman. For Mr. Hayward, it looks like you are ahead of the curve on doing broadband in your area. How many counties does your—is your coverage?

Mr. HAYWARD. We serve parts of four counties in north Mississippi.

Senator BRAUN. Okay. In Indiana we have 92 counties, about two-thirds of them rural, and probably most RECs are either a county or two. Starting to cascade through the process of providing rural broadband.

You will actually start service here next year, it sounds like. When will you plan to be completed?

Mr. HAYWARD. Our project is about a 40-month buildout, is what we are planning, so we are planning on having it built out hopefully within four years, at least.

Senator BRAUN. That will give access to every member that has currently got electricity?

Mr. HAYWARD. Yes, sir.

Senator BRAUN. That is impressive.

Mr. HAYWARD. Our goal is to—our plan is to be able to provide it to every member. Our State law requires it before we can even get into the broadband business that we have to have a plan to provide—

Senator BRAUN. Are your other counterparts in Mississippi proceeding at the same pace?

Mr. HAYWARD. We have—our law just passed in January. We were not able to get into the broadband business from our enabling act, and we passed new legislation, and once our—I do have to have a vote of our change of our articles of incorporation, which will take place in December. We have eight co-ops already that are—

Senator BRAUN. That is impressive. You would be a model for many other States then.

We are running short on time. Next question for Mr. Sievers. I noticed you said that, when you talked about the farm economy, I think we are going through one of the toughest stretches. I am involved in farming to the extent I can be in, with the time I have available, forestry and row crops.

You mentioned tariffs and waivers. What do you think of the underlying issues that have created chronic oversupply, you know, where acres are opening up across the world that we have never seen before, where Asia, Africa, along with South America? You seem to focus on tariffs and waivers. My opinion is it goes much more deeply. How do you think we get through chronically low prices and high input costs to keep the farm economy alive in the long run?

Mr. SIEVERS. Thank you for the question, Senator. I really believe it is in the area of livestock production. I think the demand that can come as a result of increased livestock production will be helpful for the supply burdens that we are faced with, especially in corn and soybeans, which then leads, obviously, into how do you deal with that, and obviously trade is one of those things that will help.

Certainly in the beef industry, you know, we would hope and anticipate seeing improved market opportunities, certainly with Japan and the trade deal that has just been completed there. The USMCA will obviously help that as well, so passage of that by Congress would be instrumental.

I think the demand side of that equation will help pull the livestock production and the livestock sector forward and improve the demand for a lot of our commodities that are oversupplied.

Senator BRAUN. I think you are right. Where farms had kind of a focus on row crops only over the last 20 years, I think that might tip back the other way, because livestock and poultry are exportable in a way that I think most of the world now is aiming to be self-sufficient on food and feed for themselves.

Your digesters that you put in on your place, was the—could you have done one and reached an economy of scale that would have been worthwhile? You have got two digesters, correct?

Mr. SIEVERS. We have two anaerobic digester tanks. They actually operate in parallel, so it really just allows us to process the volume of manure, which is roughly half of the waste streams we process. It also provides an opportunity for a number of agriculture processors in the region to send us their waste streams. We receive waste streams from the poultry industry, turkey plants, chick hatcheries, biodiesel plants—

Senator BRAUN. Within a radius of your location?

Mr. SIEVERS. Actually, we go as far as 200 miles away. ADM facility in Decatur, Illinois, sends us waste stream.

Senator BRAUN. What is your cost per kilowatt when you do generate electricity back into the grid, and is it competitive?

Mr. SIEVERS. Well, I will give you an example. Right now we sell our electricity to our local service provider for 4.8 cents a kilowatt hour, and I would say that we are at breakeven right now. That is why the things that we have looked at with renewable fuel standard—electricity producers who operate anaerobic digesters are currently not eligible for the renewable fuel standard and the RINs that are associated with, for example, D3 RINs that go with cellulosic fuels that transportation and liquid fuel producers can get, for example, renewable natural gas.

That is one of the changes we would like to see EPA finally implement. There is a pathway there. They just never accepted or adopted any of the applications that have been submitted for the RINs pathway. That would really help us achieve maybe a little improved level of profitability as well as the overall implementation of the small refinery exemption.

Senator BRAUN. My time is up. I would love to, at a different time, learn more about what you are doing there.

Mr. SIEVERS. Sure.

Senator BRAUN. Thank you very much.

Chairman ROBERTS. Thank you, Senator Braun. You touched on a very important topic.

Coop, you are up.

Senator THUNE. Thank you, Mr. Chairman, and thanks for having this hearing on farm bill implementation. I think it is really important that we do the important work this committee needs to do to ensure that these programs are implemented in the way that

Congress intended. I am especially pleased that the 2018 Farm Bill maintains USDA energy and rural development programs which continue to improve efficiency, energy efficiency, infrastructure, housing, and economic development in rural communities across my State of South Dakota.

Mr. Sievers, you mentioned the EPA's recent unprecedented issuance of small refinery waivers, which have drastically undermined the integrity of the renewable fuel standard and the President's commitment to rural America. I have heard from a lot of producers in South Dakota who share your concern, and I continue to urge the Administration to remedy the harm that has been caused by these waivers.

Could you just briefly describe the impact of these waivers on farm country?

Mr. SIEVERS. Well, in our particular industry, the biogas that is produced, if it is converted into renewable natural gas or pipeline-quality gas, it becomes eligible for either D3 or D5 RINs, advanced or cellulosic RINs, under the renewable fuel standard. As a result of the decreased SREs, utilization of the SREs, we have seen the value of those RINs plummet. We have seen them bounce back somewhat. I think we are now trading around 88 cents for a D3 RIN, which is helpful.

In our situation, we are contemplating going from generated electricity from our biogas to a renewable natural gas facility. That represents a significant investment for us, several million dollars. If we do participate or move forward with that project we are going to have to rely on RINs as a portion of our revenue stream to help support that investment. Right now, at 88 cents a RIN, I am not sure that the value is high enough for us to be able to move forward with that.

Senator THUNE. Okay. Well, I hope that the EPA, as they work on this new rulemaking, adheres to the commitments the Administration has made about ensuring that the RFS 15 billion gallon number is a real number and that these small refinery exemptions do not continue to erode the very positive impact that the biofuels industry has had, not only on the Midwest, in the farm economy, but I would also argue on the national economy and our, you know, the environmental quality issues that we are all trying to hit these days. It has just been, I think, a win-win, and we need to keep it going in the right direction, and these exemptions have really undermined, I think, the intent and the effectiveness of the renewable fuel standard.

Dr. Dwyer, I appreciate the work that Michigan State University Extension is doing to address increasing suicide rates in rural areas, especially among farmers. This is an issue of great concern to members of this Committee, and I would like to note that South Dakota State University Extension has similar ongoing efforts.

Could you briefly describe Michigan State University Extension's work to address this issue, and also perhaps describe the agreements that you all have in place with the Farm Bureau, Farmers Union, and Farm Credit Council, to make sure that the farm stress education materials reach the producers who need it?

Mr. DWYER. Yes, and thank you for the question. We enjoy working with our South Dakota colleagues a great deal.

The specific programming we have put together initially focused on a program called Weathering the Storm, directly for farmers and farm families. This past January, we had 99 of our extension colleagues from across the country, representing 19 different States, who were trained in that program, and now that programming is being provided throughout the country.

In addition, we have a parallel program for those who work in agriculture called Communicating With Farmers in Distress. The challenges being faced by farmers and farm workers certainly impact farmers and farm works, but they also impact everyone that works around them, and those people are also in a position to know about the challenges and know about changes that people might be experiencing.

What we have been able to do at this point is develop online and face-to-face programs that we are taking out nationally, working with American Farm Bureau Federation, working with FSA, and all of those sorts of things. It really builds on our belief that the Cooperative Extension network is something we need to use differently and more expansively as we face these challenges, because through capacity funds and other means, you have provided assets that are tremendous—Statewide networks, people embedded in communities, and a 100-year history of doing work that matters to communities. We think we need to broaden that out through some of this mental health and farm stress work.

Senator THUNE. Good. Well, keep it up.

Mr. DWYER. Thank you.

Senator THUNE. Mr. Chairman, can I ask one more question?

Chairman ROBERTS. Certainly.

Senator THUNE. Are you ready to gavel this out? It is almost high noon. Not quite.

Mr. Stanley, in your testimony you talked about distance learning and telemedicine, and obviously that is something that, in South Dakota, we have long embraced. We see great benefit to telehealth, to expand access to quality care in rural areas. We have had resources awarded to Avera Health in 2018, that have helped support critical telehealth infrastructure and training throughout our State. That has allowed some of these communities to gain access to Avera's eCARE network, which includes emergency services, behavioral health services, and more.

Based on your experience over the years in DLT, I would like to have you explain to the Committee the Federal Government's return on investment in these grants. In other words, if not for these grants, how would people in these rural areas be accessing care?

Mr. STANLEY. Thank you for your question. The telemedicine really does allow our behavioral health providers to provide services to these rural patients, and again, we cover a six-county area, and so some of these are the most rural and also the most impoverished counties in the country. You are talking about some maybe grandparents raising children, incarceration, all these things that really are issues for access to care. Having our rural clinics with telehealth allows us to take care of that patient at a distance.

Again, it is very challenging to recruit providers to a very rural area that does not really offer a lot in amenities. This is really an extender for us. We have a shortage of primary care physicians. It

is challenging to get mental health nurse practitioners. This is really, I feel, the answer for us to meet that need.

For example, we have medically assisted treatment. We have utilized that for our mothers. We realize we deliver about 1,000 babies a year. Did you know that 250 to 300 of those babies are born addicted? Again, we use this medically assisted treatment program for the mothers who are willing.

We built this trust relationship with these mothers that will work with us, but see, they have to be a part of a program, and that program includes counseling. It is not just medically assisted treatment. That allows them to stay in that program, because then they can go to one of the rural sites, because again, like I said, we cover a six-county area.

I really want to thank the USDA for their support, and we really see the USDA as a partner.

Senator THUNE. Thank you. Mr. Chairman, thank you, sir.

Chairman ROBERTS. I thank the Senator from South Dakota, former Presidential candidate.

Mr. Sievers, you still out there?

Mr. SIEVERS. Yes, I am, Mr. Chair.

Chairman ROBERTS. Here is a flash for you. Last year the Warrior Biogas Project—partly this year—at the city-owned wastewater treatment plant in Dodge City, Kansas, started operations at its facility to capture and clean biogas produced from municipal and industrial wastewater for distribution into the Northern Natural Gas pipeline. It is a \$9 million project designed to clean the biogas produced through the anaerobic digestion process treating wastewater from Dodge City residents and nearby National Beef processing plant.

Dodge City, we used to say, don't worry about that smell. We just smell the money. That is not the case now. What is the case is they invited their Senator to come out and take a look, and I was literally blown away. Well, the wind blows a lot in Dodge City, but this is a different kind of circumstance.

Thank you for your testimony, and I think that as this continues, there are a lot of answers here that we are coming up with.

I want to thank all of the witnesses, especially. We talked about telemedicine, opioid addiction, mental health, and even suicide rates. I think the best program I know with regards to addressing rural development is something called farm income. This is the fifth year in a row where we have had prices below the cost of production. It is amazing to me that our situation is not worse than it is. Yet farmers know somehow how to keep going. They always put the seed in the ground and expect they are going to have a crop.

I would just say, for the record, until we get this trade situation worked out, if, in fact, we are going to continue to do what we have done in the last, what, 40 years since I have been in public office, and that is to build our trade capability to not only feed this country but a troubled and hungry world.

We have got to get USMCA passed. That is the big acronym for the new NAFTA. USMCA. I call it the United States Marine Corps Always, but maybe you have two up, one back, and we can get this job done.

You have really contributed here, a great deal, with information on what we are doing on the local level, despite the fact that we have not achieved price recovery, which we simply must do. I thank you for your efforts, and I thank you for your testimony.

To my fellow members, this will conclude our hearing today. To my fellow members, please submit any additional questions you may have for the record to the Committee Clerk five business days from today, or by 5 p.m. next Friday, November 15th.

The Committee now stands adjourned.

[Whereupon, at 11:37 a.m., the Committee was adjourned.]

A P P E N D I X

NOVEMBER 7, 2019

**Testimony of
Bette Brand, Administrator for Rural Business-Cooperative Service,
Bruce Lammers, Administrator for Rural Housing Service, and
Chad Rupe, Administrator for Rural Utilities Service**

**U.S. Department of Agriculture
Before the
U.S. Senate Committee on Agriculture, Nutrition, and Forestry
Implementation of the 2018 Farm Bill: Rural Development and Energy Programs
November 7, 2019**

Chairman Roberts, Ranking Member Stabenow, and distinguished members of the Committee, we are honored to be here with you this morning to share USDA Rural Development's efforts regarding the implementation of the 2018 Farm Bill. Together, we represent the three different agencies that make up Rural Development – Rural Housing Service, Rural Utilities Service, and Rural Business-Cooperative Service.

Rural Development's mission is to increase economic opportunity and improve the quality of life for rural citizens. Together, we manage a loan portfolio of more than \$225 billion and our investments support rural residents looking for affordable safe housing, municipalities seeking water infrastructure and community facilities, and small rural businesses, cooperatives, and agricultural producers looking to expand into new markets. We are also a vital source of financing for rural broadband and electric infrastructure.

Rural Development is exclusively focused on serving the needs of rural areas and is unique because we partner with local leaders and provide loans, grants, and other tools and resources to ensure rural families, business, and communities have the help they need to prosper, today and in the future.

In 2018, Rural Development invested \$3.4 billion in distressed communities which is an increase of \$270 million from 2017. We also built 14,500 miles of electric transmission and distribution lines to benefit more than 7 million rural customers. We partnered with cooperatives and communities to deliver rural broadband service to 45,000 homes and businesses, and we provided new or improved water and wastewater services to nearly 3 million rural Americans.

The 2018 Farm Bill reauthorizes Rural Development programs vital to helping rural communities build stronger economies, create jobs, and improve the quality of life for their residents. We have successfully started to implement provisions such as the new loan/grant option within the Rural Broadband Program, improving access to credit for rural communities by increasing the population limits for the Community Facilities and Water and Waste Disposal Programs, and implementing the Local Agriculture Markets Program (LAMP).

Rural Utilities Service

The Rural Utilities Service (RUS) provides much needed financing for infrastructure and improvements to existing infrastructure in rural communities. RUS oversees Water and Environmental Programs, Electric Programs, and Telecommunications Programs. We use a combination of loans and grants as a funding mechanism to help communities improve the quality of life for rural Americans.

The 2018 Farm Bill made significant improvements to all three RUS program areas. It is important to note that more than half of all rule changes in the 2018 Farm Bill show up in the Rural Development Title with most of those rules in RUS.

Our staff has been working with the National Telecommunications and Information Administration (NTIA) and the Federal Communications Commission (FCC) to bring reliable broadband to America's rural communities. We believe reliable broadband is critical for improving the quality life and economic development opportunities in rural America.

In the 2018 Farm Bill, Congress made substantial upgrades to the Rural Broadband Program. The Farm Bill authorized \$350 million in broadband-related funding over five years and sets forth plans for the expansion of high-speed internet access to rural, unserved areas. The Rural Broadband Program now includes grants, loan guarantees, and payment assistance for applicants. We expect an updated rule to be published in winter 2019.

Although not a Farm Bill program, the highly-anticipated first round of Broadband ReConnect Pilot Program applications are now being awarded. ReConnect enables the federal government to partner with the private sector and rural counties to build modern broadband infrastructure in areas with insufficient internet service. These projects are bringing high-speed, reliable, internet service directly to rural residents and critical community facilities. These facilities range from hospitals, schools, libraries, businesses and farms. At USDA, we believe high-speed, reliable internet in the 21st century is just as important to rural America as bringing electricity was in the 20th century. Using both ReConnect and the Rural Broadband program,

we can serve more Americans in rural communities by ensuring they have affordable options for consistent broadband connections.

We have been working closely with the FCC, NTIA, and other federal agencies to coordinate our broadband mapping and other policies. We are analyzing how to best coordinate federally backed broadband programs and activities to promote and support the long-term viability and sustainability of rural broadband infrastructure. In addition, USDA and NTIA serve on the Executive Leadership team of the American Broadband Initiative, the Administration's signature strategy to stimulate increased private investment in broadband infrastructure and services to fill broadband connectivity gaps in America.

In our Water and Environmental Program, we increased the population eligibility from 10,000 to 50,000 in our guaranteed program for Fiscal Year 2020. We will prioritize funds for projects in rural areas of 10,000 or less to ensure that the neediest communities are served. The Farm Bill also made changes to our Rural Energy Savings Program (RESP) to improve the application process and help rural families and small businesses utilize cost-effective, energy efficient measures. We plan to publish a final rule in winter 2020.

Section 6501 of the Farm Bill required a Memorandum of Understanding (MOU) with the Department of Energy (DOE) to allow DOE to provide technical assistance on electric loans financed by RUS. Areas of collaboration include: expanding energy-related technologies, encouraging additional investment in rural America, and supporting cybersecurity initiatives and grid security.

Rural Housing Service

The Rural Housing Service (RHS) offers a variety of programs to build or improve housing and essential community facilities in rural areas. We work with our partners to ensure that rural America continues to be a great place to live, work, and raise a family. The 2018 Farm Bill had several provisions impacting RHS and expanding eligibility for our programs.

The Community Facilities Guaranteed and Direct Programs provide long-term low-interest financing to governments and non-profits in rural areas that have a population of 20,000 or less. These programs can be used to finance healthcare, education, and public service projects. Funds may be used to construct, enlarge, or improve facilities. A rule published in the Federal Register on October 4, provides communities with a population of up to 50,000 the opportunity to apply for the Community Facilities Guaranteed Loan Program. This change in eligibility will allow many more communities to apply for these financing opportunities.

Our Community Facilities programs are also used to provide critical financing to communities that are dealing with substance misuse and other mental health challenges. Section 6101 directs RD to give priority to entities who are applying to use our funds for these purposes. In Fiscal Year 2019, we obligated 47 projects for over \$43 million in opioid-related obligations, and we are looking to increase our investment in Fiscal Year 2020.

We are also working to publish the OneRD Guaranteed rule which is an opportunity for the Rural Development to implement key provisions of the Farm Bill. The OneRD rule will allow us to provide better customer service to our lending partners so that together, we can provide critical access to capital in rural areas. The OneRD rule codifies the changes in the eligibility requirements for several programs by increasing the population limit to 50,000.

Another provision that we are working to implement is partnering with Housing and Urban Development on income verification for rental assistance. The 2018 Farm Bill gave USDA permanent authority to access the data from the National Database of New Hires, and we estimate that it will reduce overpayment of rental assistance. The technology matching agreements are still being developed and coordinated, and we anticipate full implementation by Fiscal Year 2020.

We also know that rural hospitals are struggling across America and they have increasing debt. Section 6103 of the Farm Bill allows refinancing of certain rural hospital debt if it will meaningfully improve the financial position of the hospital. This allows hospitals financed by the Rural Housing Service, as well as hospitals that are not in our portfolio, to refinance existing debt and help keep their doors open. We plan to publish a final rule next spring to fully implement this provision.

Rural Business-Cooperative Service

The Rural Business-Cooperative Service (RBCS) helps provide the capital and support for training, education, and development of entrepreneurial skills that can help those living in rural areas start and grow businesses. Whether it is through our Business programs, which provide much needed financial support to rural areas in partnership with private-sector lenders or community-based organizations, we are making investments in the businesses that help our rural communities grow.

The Farm Bill made changes to the Bioenergy Program for Advanced Biofuels, Renewable Chemical and Biobased Product Manufacturing Assistance Program, and the Rural Energy for America Program (REAP). RBCS expects to publish the rule implementing these changes in Fiscal Year 2020.

We have also coordinated with the Agriculture Marketing Service on the implementation of Farm Bill provisions creating the Local Agriculture Markets Program (LAMP). This program combines and streamlines three existing local and regional food system programs into one and establishes a permanent funding stream. RBCS will continue to administer the Value-Added Producer Grant program under LAMP. This program has an important role in generating new products, creating and expanding marketing opportunities, and increasing producer income. We expect to publish the rule implementing these changes in summer 2020.

The Rural Business Development Grant program was reauthorized by the Farm Bill and continues to allow us to support targeted technical assistance, training, and other activities leading to the development or expansion of small and emerging private businesses. These

businesses must be in rural areas, have fewer than 50 employees, and less than \$1 million in annual gross revenue. The Farm Bill also reauthorized the Rural Economic Development Loan and Grant program, which provides funding to rural projects through local utility organizations.

Finally, the Agriculture Innovation Center Program was reauthorized in the 2018 Farm Bill. We published the Notice of Funding Availability for \$3.5 million on October 16, 2019.

Rural Development has been working effectively and efficiently to implement the 2018 Farm Bill. As the Administrators overseeing these programs, we will continue to work with Members of the Committee to address the unique needs of rural America. We thank you for inviting us before the Committee to share the important work that we do. We appreciate your continued interest and support of Rural Development programs because when rural America thrives, all America thrives.

Testimony of Keith Hayward
General Manager and CEO of North East Mississippi Electric Power Association
Senate Committee on Agriculture
November 7, 2019

Background

Chairman Roberts, Ranking Member Stabenow and members of the Committee. Thank you very much for the opportunity to testify about the recently passed Farm Bill and its importance to electric cooperatives in Mississippi, and across the country.

My name is Keith Hayward. I am the General Manager and CEO of the North East Mississippi Electric Power Association (NEMEPA). We are a not-for-profit, electric cooperative providing electricity to approximately 27,000 meters in parts of four counties in north Mississippi. We are located in Oxford, home of the University of Mississippi. I also serve as President of the Board of Directors of the Electric Cooperatives of Mississippi, the statewide umbrella organization representing my co-op and the 25 other similar co-ops in our state. Mississippi is proud to be home to the first electric cooperative formed, the first REA cooperative to energize lines, and the first non-TVA cooperative to get an REA loan.

Across the country, around 900 co-ops serve approximately 42 million people in 48 states covering 56% of the US land mass. In general, we serve some of the poorest, most rural parts of our country with an average of just 10 customers per mile of line. That's far fewer than other types of electric utilities. Despite those challenges, we are doing some truly innovative work to improve the quality of life for our members. While our priority is to deliver safe, reliable, clean, affordable electricity to our members, we have a calling to be more than just poles, wires, and electrons companies. Our broader purpose is to provide the services and support that empower our communities to thrive. I am proud of the role we play in these communities.

An electric cooperative is also unique because we are locally-controlled, democratic organizations. We conduct annual membership meetings, at which our member-owners - the consumers we serve - elect a board of directors from among the membership. The directors then elect their own officers and employ a manager to run the daily operations of the cooperative. Thus, employees are responsible to the manager, the manager is responsible to the board, and the board is responsible to the membership at large. Ultimately, that's how the customers of an electric co-op have the final say in its operation.

The rural areas we serve grow most of the food, generate much of the power, and manufacture many of the goods that this country consumes. When rural areas suffer, the whole country suffers. That's why the Farm Bill should be of interest to all Members of Congress, no matter what type of state or district they represent. The Farm Bill contains essential tools we use to do our jobs. It provides financing for our basic electrification work. It facilitates our broader rural economic development interests. And it offers new opportunities to deploy rural broadband.

Financing for Rural Electrification

The Farm Bill manages two essential tools that finance rural electrification – the RUS Electric Loan Program and the Guaranteed Underwriter Program.

RUS Electric Loans – In the early 1900's, as urban areas began to electrify, rural areas lagged behind. Eventually, farmers and ranchers in remote areas took the initiative to form electric cooperatives and did the work themselves. On May 11, 1935, President Roosevelt signed an executive order creating the Rural Electrification Administration and supported subsequent legislation that led to the formation of electric cooperatives across the nation. When the utilities that existed at that time would not put capital at risk to build infrastructure to serve sparsely populated areas - even with access to REA's below-market capital at the time - not-for-profit electric cooperatives emerged to leverage REA's affordable credit to fill the void.

In the past 80 years, a lot has changed, but the same fundamental challenge still exists – how to affordably connect those relatively few customers in high cost rural areas. What was then called the Rural Electrification Administration (REA) is now the Rural Utilities Service (RUS) and it's as relevant today as it was back then. REA and RUS loans have helped build, expand, and improve the infrastructure across rural America necessary to deliver power, clean water, and other necessities. It has been the most successful public-private infrastructure investment program in the history of the country.

RUS loans help electric co-ops reduce costs and improve reliability for our members by financing basic maintenance like replacing poles and wires. But it also helps us fund projects to make our systems more modern, efficient, and secure.

RUS depends on a yearly appropriation from the Agriculture Appropriations bill. We are grateful to enjoy bipartisan support from a diverse group of Senators for continued robust RUS funding. Part of our support comes from the fact that we are such a good investment for the federal government. The President's budget request for 2020 estimated that the federal government could realize over \$100 million in net interest and fees from RUS loans. We thank you for your past and continued support.

We also ask that you support policies that allow us to continue to use RUS loans to address a broad set of co-op needs - whether for generation, transmission and distribution of baseload power, integration of renewables, making environmental upgrades to existing generation, or adopting new technologies that make the grid "smarter."

The Rural Electrification Act remains an essential tool for basic electrification, deploying modern technologies, creating jobs, improving quality of life, and promoting overall prosperity in rural America.

Smart Grid – I am going to talk more about retail broadband later in my testimony, but I want to take a moment to first draw the distinction between that and the Smart Grid technology we use in the electric grid. They are two different things. The main challenge of a distribution co-op is to meet the electricity demands of our customers as efficiently as possible so that every time you flip a switch, the light comes on. High speed communications infrastructure in the grid lets us know a lot more, a lot faster, about what's going on our systems – where the outages are, what the demand is, etc. If you want fewer outages; if you want more renewables; if you want more access to electric vehicles; if you want less expensive power; if you want a system more secure from cyber-attack: broadband in the grid is key. As you continue to think about deployment of retail broadband, don't forget about this separate Smart Grid component. They look alike, but they work differently, for different purposes, and need different rules.

Cushion of Credit – We were disappointed that the Farm Bill included changes to the RUS Electric Loan Program's "cushion of credit." Cushion of credit accounts are escrow-like accounts that allow RUS

borrowers to manage variations in income and expenses – making deposits during times of surplus and drawing to pay RUS debt during a deficit. Cushion of credit withdrawals can only be used to pay RUS debts. Interest on deposits into cushion of credit accounts was previously set in law at 5%. The Farm Bill reduces that interest rate over time to a rate equal to the rate paid on one-year treasury bonds. These retroactive changes will jeopardize long-term co-op business plans and result in higher electricity costs for people in rural America – those the Farm Bill intends to serve. In addition, these cuts eliminate an important money management tool that can be tapped during times of emergency, giving certainty to the electric cooperative and the federal government. One related Farm Bill provision, which we do support, would allow cushion of credit account holders to use their balances to pay down and refinance RUS debt.

Guaranteed Underwriter Program – It is important that electric cooperatives have multiple, strong financing options. In addition to receiving loans from the Rural Utilities Service, many electric cooperatives also borrow from private, cooperative banks like the National Rural Utilities Cooperative Financing Corporation (CFC) and CoBank. In turn, the Rural Utilities Service (RUS) guarantees some of the loans made by these qualifying third-party lenders under the Farm Bill-authorized Guaranteed Underwriter Program. NEMEPA utilizes loans from CFC to finance its infrastructure investments. We are pleased that, in addition to reauthorizing the Guaranteed Underwriter Program, the Farm Bill included some modest streamlining to make this program less bureaucratic.

Broadband

The lack of access to robust broadband service today is akin to the need for electrification in rural America 80 years ago – with the urban areas of the country well-served, and rural areas being left behind. Because we have a symbiotic relationship with the communities we serve, many electric cooperatives are, in some way, engaged in closing the digital divide. More than 100 electric co-ops, including my own, are currently working toward meaningful and diverse solutions to deploy rural broadband and jump-start local economies. Nearly 200 more electric cooperatives are in the due diligence phase. Many of these electric cooperative projects have invested in building fiber to the member's home, highlighting our commitment to investing in future proof networks that will stand the test of time and meet increasing speed and bandwidth demands. This commitment is vital for the one-quarter of all rural Americans who still lack access to broadband, compared to less than 2 percent in urban areas.

NEMEPA's journey with broadband began in January 2019 when the Mississippi legislature made a change in state law to allow electric cooperatives to branch out into retail broadband to help close the digital divide. Our due diligence process included several feasibility studies to determine community interest, need, and cost, and to establish a viable business model that can stand on its own. We also hosted public meetings with our consumer-members and communicated with them throughout the process to share updates and receive their input. At our September 2019 board meeting, the NEMEPA board approved a plan to build a Fiber to the Home (FTTH) network to reach 100% of our membership. We feel strongly that it's important to have a plan to serve all our cooperative members, not just those that might be convenient or easy to reach. We are currently in the engineering phase and will have a final vote to approve the plan by our whole membership at our annual meeting this December. If our plans stay on track, we may be able to begin offering high-speed broadband service to parts of our membership as soon as next year.

As this committee knows, deploying infrastructure in rural America, especially infrastructure required for broadband, is a capital-intensive venture. Additionally, our rural nature lends itself to sparse population densities which means we must spread the costs of deployment over smaller groups of consumers, greatly lengthening the time it takes to pay back a loan. Therefore, continued government funding to reduce the upfront capital investment and help make the business case to deploy robust broadband is necessary to achieve wide-spread expansion of high-speed access throughout rural America.

There are currently federal funding programs geared toward this purpose at RUS and at the Federal Communications Commission (FCC). Programs at these agencies are complementary and equally important. Electric cooperatives have witnessed both success stories and challenges within these programs in pursuit of bridging the digital divide throughout rural America. My cooperative is a current applicant for the USDA ReConnect Broadband program. We experienced both technical and rule-related challenges throughout the application process. We understand that new programs take time and adjustments to run as smoothly and efficiently as possible. As an individual cooperative and through our national association, we are committed to working with Congress and program administrators to provide feedback on suggested adjustments.

Looking forward at broadband programs at USDA, when Congress reauthorized the Farm Bill in 2018, electric cooperatives participated in and appreciated the efforts taken to learn from some previous challenges by reshaping the USDA RUS Farm Bill Broadband Loan and Grant program. We believe the Farm Bill program will help get the best broadband to the most rural Americans currently lacking access. The updated program represents a bi-partisan, bi-cameral compromise and we urge Congress to utilize this consensus approach by directing funding to the program soon.

Several of my fellow electric cooperatives are at various stages of their own due diligence processes in Mississippi and across the country. There is no one size fits all approach to deploying rural broadband. Some of us will be providing these services ourselves. Others will be forming partnerships with other entities. But we all have the same common mission – to save our customers money, to improve their quality of life and to offer them the tools to be as productive as possible. Flexibility, continued engagement with electric cooperative stakeholders, and strong technical assistance within USDA programs is critical to enabling us to best serve our consumer-members and continuing to make progress on closing the digital divide.

While we don't think of ourselves as a silver bullet, we are invested in our communities and want to see them succeed. Whether for electric cooperatives' own business "smart grid" operations or for residential and economically necessary connectivity, communications infrastructure will be critical to that success.

Rural Development

The health of our whole country is dependent on a healthy rural America. Rural America grows most of the food, generates much of the power, and manufactures many of the goods that this country consumes. The Farm Bill authorizes many different USDA programs that provide fundamental assistance to those rural communities.

Rural Economic Development Loan and Grant (REDLG) Program – Under the REDLG program, proceeds to the federal government from Rural Utilities Service (RUS) loans are used to finance economic development projects in rural communities. In the last two decades, electric cooperatives around the country have partnered with community stakeholders on hundreds of these projects to construct

essential infrastructure, renovate hospitals, build libraries, and expand businesses, among other things. Importantly, no REDLG loan has ever suffered a default. We are grateful that the 2018 Farm Bill reauthorizes REDLG and gives it a dedicated funding stream to secure the program for the foreseeable future.

Since 2009, Mississippi co-ops have conducted around \$25 million in REDLG projects. Included among those projects are the construction of a hospital and a new workforce education building to support local industry. We believe the REDLG program is a valuable tool in offsetting population flight and job losses in rural Mississippi and around the country. We urge the Congress to work with us to ensure ample funding for REDLG throughout the next Farm Bill and beyond.

Innovation and Energy Efficiency – Because we do not have a profit motive, part of the cooperative advantage is having a unique opportunity to help our consumers use less energy and save money. For years, electric co-ops across the country have provided information and advice to consumers to help them use electricity more efficiently and cost-effectively. The Rural Energy for America Program (REAP) and the Rural Energy Savings Program (RESP) are among the USDA programs that cooperatives use to finance investments in energy efficiency, construct new renewable energy generation sources, and deploy other innovative technologies that modernize the grid and save our members money. We thank the Committee for reauthorizing these programs which ensure that electric co-ops are poised to meet the evolving demands of our member-owners.

85/15 Income Rule to Maintain Federal Tax-Exempt Status

Though not the main topic of this hearing, please allow me to mention a subject which has a potential impact on the way electric cooperatives utilize the programs we've been discussing. As community-focused, member organizations, electric cooperatives must comply with the 85-15 income test. That means no more than 15% of gross income may come from non-member sources to remain tax-exempt under federal law. Due to an unintended consequence of the Internal Revenue Code in the 2017 Tax Cuts and Jobs Act, electric co-ops across the country could lose our federal tax-exempt status. The 2017 law contains a provision that counts federal, state and local grants to co-ops as non-member income. Before the law change, grants were defined as a contribution to capital and did not count toward 85-15 calculations.

Historically, electric cooperatives have received grants from a variety of federal, state and local governments to assist in providing services to their members for purposes such as storm restoration (FEMA), renewable energy development, energy efficiency and conservation, economic development, or rural broadband initiatives. Now that grants are counted as income, co-ops could face difficulty in maintaining their tax-exempt status if they take government grants to restore power after a natural disaster, bring broadband service to rural residents, boost economic development in local communities or create energy efficiency programs.

Fortunately, a bipartisan legislative solution to this issue has been introduced in the House and Senate. The Revitalizing Underdeveloped Rural Areas and Lands (RURAL) Act (S. 1032/H.R. 2147) was introduced by Senators Rob Portman and Tina Smith and Representatives Terry Sewell and Adrian Smith in April. The legislation will allow co-ops to accept grants without jeopardizing their tax status, but the bill has not yet been scheduled for a vote in the House or Senate. The entire rural electric cooperative family urges Congress to pass this legislation.

Conclusion

We are a healthy nation because we have vibrant, bustling urban cities AND because we have verdant, productive rural areas. Unfortunately, whether it's infrastructure or jobs or access to health care, it seems that too often rural America gets the short end of the stick. The Farm Bill is important legislation that helps to address some of those disparities.

Electric Cooperatives enjoy a productive partnership with the federal government and with the communities we serve to promote the health of rural America. We look forward to continuing to work with you toward that important goal. I'm happy to answer any of your questions.



Written Testimony of Bryan Sievers
Sievers Family Farms
AgriReNew JV
United States Senate
Committee on Agriculture, Nutrition and Forestry
“Implementation of the 2018 Farm Bill: Rural Development and Energy Programs.”
November 7, 2019

Introduction

Chairman Roberts, Ranking Member Stabenow and Members of the Committee, thank you for asking me to testify at today's hearing focusing on the Implementation of the Energy Title of the 2018 Farm Bill.

My wife Lisa and I own and operate Sievers Family Farms near Stockton, Iowa. We are fifth generation Iowa farmers that run a 2,400 head beef cattle feedlot, produce corn, soybeans, and hay on approximately 2,200 acres. Our farm operates two complete-mix anaerobic digesters where we produce biogas that is used to generate renewable electricity, which is sold to Alliant Energy, and reclaimed heat, which is used to heat our digesters and other buildings on our farm. We focus on stewardship and conservation of our natural resources in our operations and have implemented numerous water quality and soil health practices over the years, including grassed waterways, field borders, buffer strips, terraces, contour-farming, no-till and strip-till, grid soil sampling, and cover crops.

As a result of my experience in agriculture and anaerobic digestion, I also serve on the Board of Directors of the American Biogas Council (ABC) which is the only national trade association representing the entire biogas industry in the U.S. We represent over 200 companies in all parts of the biogas supply chain who are dedicated to maximizing the production and use of biogas from organic waste. The mission of the ABC is to grow biogas business in the United States which creates jobs, protects our air, water and soil and catalyzes energy independence and new investments.

The ABC is in turn a member of the AgEnergy Coalition, a group of organizations committed to a strong, bi-partisan energy title. The ABC and the AgEnergy Coalition believe that strengthening rural America and on-farm economies are two key ways to advance the deployment of renewable energy, and the production of biofuels and renewable chemicals.

Over the past few years, I have become very involved in federal policy affecting the digester industry. I have also been and remain involved in advocating for state policies that affect the agricultural and rural economy. The experiences I have gained while serving in the Iowa House of Representatives (2001-2002) and the Iowa Senate (2003-2004) helped me draft legislation in 2011 which expanded Iowa's renewable energy tax credit program for anaerobic digesters and biogas producers that generated electricity for re-sale to the electric utilities. This bill passed the Legislature and was signed into law by Governor Branstad in 2011.

I also served as Chair of the Biomass Conversion Committee. This committee was created by the Iowa Economic Development Authority as a result of the 2016 Iowa Energy Plan which was developed under the authority of then Lieutenant Governor Kim Reynolds. Our Biomass Conversion Committee prepared a Biomass Action Plan in the spring of 2018, now included in Iowa's comprehensive renewable energy policy. The Biomass Action Plan focuses on ways to enhance water quality, air quality, and soil health. Producing renewable electricity and renewable natural gas from the biogas produced through the anaerobic digestion of organic waste streams and manure is a key part of the Plan to reach those goals.

Supporting the BioEconomy

I come before you today to urge the Committee to closely oversee the implementation of the 2018 farm bill. This important piece of legislation contains many programs intended to help farmers diversify their income streams. In the midst of trade wars, horrible weather and the Administration's actions to undermine the Renewable Fuel Standard (RFS), the farm bill energy title programs continue to provide value to farmers, agricultural producers and small rural businesses. American farmers and rural communities are hurting. While U.S farms' net income is forecasted to rise in 2019ⁱ, these challenges are squeezing farmers between decreasing commodity prices caused by an escalating trade war with China and the gutting of the RFS caused by issuing more Small Refinery Exemptions for the RFS than ever before. In both cases, the Trump Administration's actions have dramatically decreased the value of several of the products we and our fellow farmers produce and that dramatically reduces the revenue we need to keep our farm operating.

Members of Congress have labored over numerous farm bills to craft policies that minimize fluctuations caused by commodity price volatility. As members of this Committee continue to implement the 2018 farm bill, we ask members to keep in mind the value of our 21st century biobased economy which can help offset some of the earlier discussed headwinds which are affecting our farms, families and the agriculture economy. Chief among these policies is the farm bill Energy Title, Title IX, which creates high-value jobs and new income streams for American farmers, accelerates the commercialization of new technologies and products derived from agriculture, and supports construction of biogas systems and biorefinery manufacturing facilities in rural communities. Conventional and advanced biofuels (including renewable natural gas derived from biogas), chemicals, and biobased products made with biotechnology can drive the demand for crops (including cover crops) and crop residuals. This can boost on-farm revenue.

The 2018 farm bill (Agriculture Improvement Act of 2018; P.L. 115-334) extends most of the 2014 farm bill energy title programs through FY2023 and provides new mandatory funding. It establishes one new program of great interest to the American Biogas Council—the Carbon Utilization and Biogas Education Program. Unfortunately, however, the 2018 farm bill provides less mandatory funding than previous farm bills for energy title programs. For instance, the 2018 farm bill energy title programs mandatory funding level (\$375 million) is approximately 46% less than the mandatory funding provided in the 2014 farm bill (\$694 million). Alternatively, the total discretionary authorization provided by the 2018 farm bill (\$1.7 billion) is approximately 13% more than what was authorized in the 2014 farm bill (\$1.5 billion) for the energy programs. While the latter increase sounds positive, most energy title programs did not receive discretionary appropriations under previous appropriation bills, something that should change.

To ensure the American bioeconomy continues to expand, Congress must continue to oversee the implementation of the 2018 farm bill. Given the discrepancy in mandatory energy title funding between the 2014 and 2018 farm bill, we urge Congress to increase annual discretionary funding to ensure the success of these programs. We ask that this Committee continue to express its support to the Appropriators and urge them to fully fund the discretionary amounts for energy title

programs. Robust discretionary funding will support additional deployment of on-farm renewable energy and catalyze the development of American biotechnologies that convert domestic crops and agricultural residues to energy and value-added products, while also creating high paying rural jobs, encouraging economic growth, and improving the health of our environment.

The following are the programs contained within Title IX of the 2018 Farm Bill which support our industry and for each one:

- a description of how the programs work;
- products these programs have helped develop; and
- how the ABC believes these programs can be improved in their implementation.

Farm Bill Energy Title Programs

- Section 9002 Biobased Markets Program, known as the BioPreferred® Program
- Section 9003 Biorefinery, Renewable Chemical, and Biobased Product Assistance Program (BAP)
- Section 9005 Bioenergy Program for Advanced Biofuels
- Section 9007 Rural Energy for America Program (REAP)
- Section 9008 Biomass Research and Development (BRDI)
- Section 9010 Biomass Crop Assistance Program (BCAP)
- Section 9011 Carbon Utilization and Biogas Education Program

Section 9002, the Biobased Market Program, or the BioPreferred® Program

The goal of the BioPreferred® Program is to increase the purchase and use of biobased products from agricultural feedstocks. The program's purpose is to spur economic development, create new jobs and provide new markets for farm commodities. The increased development, purchase, and use of biobased products reduces our nation's reliance on petroleum, increases the use of renewable agricultural resources, and mitigates adverse environmental and health impactsⁱⁱ

BioPreferred® achieves these goals through two initiatives: (1) a mandatory purchasing requirement for federal agencies and their contractors and (2) a voluntary labeling initiative for biobased products. Products that meet the minimum biobased content criteria may display the USDA Certified Biobased Product label. ⁱⁱⁱ

Under the Biobased Markets Program, federal agencies and their contractors are generally required to purchase biobased products from 109 categories of goods—among which are cleaners, carpets, lubricants, office supplies, and paints—when an agency procures \$10,000 or more worth of an item within these categories during the course of a fiscal year, or where the quantity of such items or of functionally equivalent items purchased during the preceding fiscal year was \$10,000 or more.^{iv}

The 2018 farm bill extended the Biobased Markets Program through FY2023, while adding some new implementation requirements. It requires the Secretary to update the eligibility criteria for determining which renewable chemicals will qualify for a “USDA Certified Biobased Product” label. It also requires the Secretary and the Secretary of Commerce to develop new North American Industry Classification System (NAICS) codes for both renewable chemical manufacturers and biobased product manufacturers, and for the Secretary to establish a national registry of testing centers for biobased products. Additionally, it requires USDA to establish an expedited approval process for products to be determined eligible for the

procurement program and to receive a biobased product label. Finally, the 2018 farm bill prohibits a procuring agency from establishing procurement guidelines for biobased products that are more restrictive than what the Secretary has established. The 2018 farm bill authorized mandatory funding of \$3 million for each of FY2019-FY2023 for biobased products testing and labeling. Discretionary funding of \$3 million was authorized to be appropriated for each of FY2019-FY2023. However, through FY2019 no discretionary funding has been appropriated for the Biobased Markets Program.

Recommendations

The BioPreferred® Program could be better utilized to create an initial market for the full range of products from a biogas system including fiber, nutrient products, digestate. The promotion of nutrient recycling is especially important in watersheds designated as distressed. The U.S. is witnessing significant water quality issues which could be addressed by processing manures and extracting the nutrients. These nutrients can then be further processed, taken out of the water shed, and be sold as sustainable fertilizer. The ABC encourages the BioPreferred® Program to be more inclusive of biogas system products, especially those generated from digestate, the digested organic material from an anaerobic digester.

Furthermore, we encourage USDA to increase outreach and education to augment public awareness and acceptance of renewable chemicals and biobased products through BioPreferred® program's voluntary labeling and procurement system. Finally, we ask that the Committee support the full annual appropriation of \$3 million in discretionary funding for FY2020-2023.

Section 9003 Biorefinery, Renewable Chemical, and Biobased Product Assistance Program

This program assists in the development of new and emerging technologies for advanced biofuels, renewable chemicals, and biobased products. Competitive grants and loan guarantees are available for construction and/or retrofitting of demonstration-scale biorefineries to demonstrate the commercial viability of one or more processes for converting renewable biomass to advanced biofuels.^v

This loan guarantee program enables producers to access capital for large-scale projects in rural communities. Without the loan guarantee program, new technologies might never be able to pool sufficient capital to commence development of a project in a rural community with a small population.

The 2018 farm bill extended the program through FY2023. It expanded the definition of eligible technology to include technologies that produce one or more of the following, or a combination thereof: an advanced biofuel, a renewable chemical, or a biobased product. The 2018 farm bill authorized mandatory funding of \$50 million for FY2019 and \$25 million for FY2020 for the cost of loan guarantees. Discretionary funding of \$75 million was authorized to be appropriated for each of FY2019-FY2023. No discretionary funds have been appropriated through FY2019.

Recommendations

This incredibly impactful program has allowed companies to put steel in the ground for first-of-their-kind biorefineries. These biorefineries are proven job and economic growth drivers for rural communities. We urge the Committee to support appropriating the maximum funding authorized - \$75 million annually – through 2023.

Section 9005 Bioenergy Program for Advanced Biofuels

This program encourages production of advanced biofuels, other than corn starch ethanol. The policy goal is to create long-term, sustained increases in advanced biofuels production. Awards are made through Rural Development to biofuels producers, based on the amount of advanced biofuels produced from renewable biomass. Feedstocks incentivized by this program include crop residue, food and yard waste, vegetable oil and animal fat. The program has promoted the development of biogas, wood pellets, biodiesel, and advanced and cellulosic ethanol.^{vi}

Section 9005 funding helps stakeholders increase their return on investment, which is needed to proceed with constructing a new plant or expanding capacity at an existing facility. Without Section 9005 mandatory funding, companies working on advanced biofuel technologies have one less tool to support innovation and commercialization of the cleanest fuels in the world. Current USDA funding programs help advanced biofuels succeed; the industry cannot afford to be without one of these programs.

The 2018 farm bill authorized mandatory funding of \$7 million for each of FY2019-FY2023. Discretionary funding of \$20 million was authorized to be appropriated for each of FY2019-FY2023. We ask the Committee to continue to support the appropriation of full discretionary funding for the Bioenergy Program for Advanced Biofuels through FY2023.

Section 9007 Rural Energy for America (REAP)

This outstandingly popular, successful, and constructive program supports every state and region and renewable energy and energy efficiency technology. REAP provides benefits to the full agricultural value chain, from producers and co-ops, to biotechnology and clean energy companies operating across rural America.^{vii} Over 13,000 projects across all 50 states have received awards since its inception in the 2008 Farm Bill, leveraging more than \$3 billion in private investment. REAP is one of the rural economy's best methods to drive growth in America's energy infrastructure and resiliency.

The program has been instrumental in helping deploy biogas systems throughout the rural economy allowing agricultural producers, through the use of digesters, to make products from waste streams – manure and crop residues – that would otherwise be viewed as an environmental challenge. Farmers can now take these wastes streams and make on-farm renewable energy, nutrient-rich soil amendments, fertilizers, renewable natural gas, and even feedstocks for renewable chemicals and bioplastics. The sale of all these products helps protect the agricultural producer from swings in commodity prices.

The 2018 farm bill extends the program through FY2023. It also retains mandatory funding of \$50 million for FY2014 and each fiscal year thereafter (thus, unlike other farm bill renewable energy programs, REAP's mandatory funding authority does not expire with the 2018 farm bill). Mandatory funds are to remain available until expended. Discretionary funding is authorized to be appropriated at \$20 million annually for each of FY2019-FY2023. Discretionary funding of \$335,000 was appropriated for FY2019.

Recommendations

This widely popular program has been oversubscribed year after year. We urge the Committee to support appropriating the maximum funding authorized - \$20 million annually – through 2023.

Historically, digesters and other underserved technologies such as small-scale wind have disproportionately been unsuccessful in securing REAP funding. The ABC and the AgEnergy Coalition encourage the establishment of a reserve fund that would better support these "underserved technologies," by setting aside no more than 10% of the funding for these underserved technologies and returning any unused funds back into the applicant pool. We understand that this concept is something the Committee recognizes, and that USDA has used similar structures in the past.

We are hopeful that including a REAP reserve fund for underserved technologies such as biogas will improve access and that farmers, ranchers and small rural businesses can further deploy this exceptionally valuable technology. USDA should be in the business of promoting development of less market mature but proven technologies like biogas and small-scale wind in REAP, as it does in other programs.

Section 9008 Biomass Research and Development Initiative (BRDI)

The Biomass Research and Development Initiative (BRDI) seeks to foster significant commercial production of biofuels, biobased energy innovations, development of biobased feedstocks, and biobased products and processes, including cost-competitive cellulosic ethanol. The program provides competitive funding in the form of grants, contracts, and financial assistance for research, development, and demonstration of technologies and processes. Eligibility is limited to institutions of higher learning, national laboratories, federal or state research agencies, private sector entities, and nonprofit organizations.^{vii}

BRDI provides coordination of biomass research and development, including life-cycle analysis of biofuels, between USDA and DOE by creating the Biomass Research and Development Board to coordinate government activities in biomass research, and the Biomass Research and Development Technical Advisory Committee to advise on proposal direction and evaluation.^{ix}

Applicants seeking BRDI funding must propose projects that integrate science and engineering research in the following three technical areas that are critical to the broader success of alternative biofuels production: feedstock development, biofuels and biobased products development, and biofuels development analysis.

The 2018 farm bill extended the program through FY2023. It amends the definition of biobased product to include carbon dioxide, and it requires the Initiative's technical advisory committee to include an individual with expertise in carbon capture, utilization, and storage. Furthermore, it expands the objectives of the Initiative to include the development of high-value biobased products that permanently sequester or utilize carbon dioxide. The 2018 farm bill provided no mandatory funding for the program. Discretionary funding of \$20 million is authorized to be appropriated annual for FY2019-FY2023. However, no discretionary funding has been appropriated for BRDI through FY2019.

Recommendations

Further research into feed stock development and technology optimization will help encourage far greater deployment of bio technologies including anaerobic digesters throughout the U.S. We urge the committee to support full annual discretionary funding of BRDI at \$20 million for FY2020-2023. Appropriations cuts in past years have led to smaller grants, limiting the diversity of projects.

Section 9010 Biomass Crop Assistance Program (BCAP)

The Biomass Crop Assistance Program (BCAP) provides financial assistance to owners and operators of agricultural and non-industrial private forest land who wish to establish, produce, and deliver biomass feedstocks. * BCAP provides assistance by either 1) establishment of annual payments or 2) matching payments.

Establishment and annual payments are available to certain producers who enter into contracts with USDA to produce eligible biomass crops on contract acres within designated BCAP project areas.^{xi} Eligible land for BCAP project area contracts includes agricultural land and nonindustrial private forestland, but does not include federal or state-owned land, or land that is native sod. Lands enrolled in existing land retirement programs for conservation purposes—the Conservation Reserve Program (CRP) or the Agricultural Conservation Easement Program (ACEP)—also become eligible during the fiscal year that their land retirement contract expires. Generally, crops that receive payments under Title I, the commodity title, of the farm bill (e.g., corn, wheat, rice, and soybeans), plus noxious weeds and invasive species are not eligible for annual payments.

Matching payments are available to eligible material owners who deliver that material to qualified biomass conversion facilities. Eligible material must be harvested directly from the land and separated from a higher-value product (e.g., Title I crops). Invasive and noxious species are considered eligible material, and land ownership (private, state, federal, etc.) is not a limiting factor to receive matching payments.

Despite initial challenges, this program remains crucial to developing the feedstocks necessary for the biobased economy. The program's regionally appropriate biomass feedstocks are key to the development of sustainable systems for biofuels, renewable chemicals, and biobased products.

BCAP has incentivized nearly 1,000 growers and landowners farming nearly 49,000 acres to establish and produce dedicated, non-food energy crops for delivery to energy conversion facilities.^{xii} In 2014 and 2015, USDA approved 209 contracts for matching payments of \$15.8 million toward the collection or harvest of approximately 300,000 dry tons of forest residues from National Forest Service and Bureau of Land Management public lands. Forest residues are removed for the reduction or containment of disease or insect infestation and reduction of wildfire threat, the last of which is a significant threat to the Western U.S.^{xiii}

The 2018 farm bill extended BCAP through FY2023 and expanded the definition for eligible material to include algae. Unfortunately, the 2018 farm bill provided no mandatory funding for the program. Discretionary funding of \$25 million was authorized to be appropriated for each of FY2019-FY2023. No discretionary funding was provided for FY2019.

Recommendations

When well-funded, BCAP has the potential to be a huge benefit to the development of the biobased economy and to farmers and agricultural producers looking to diversify their income streams. We urge the committee to support full annual discretionary funding of BCAP at \$25 million for FY2020-2023. The greatest impediment to BCAP's success has been the elimination of mandatory funds in the recent farm bill and by appropriators "CHIMPS" as well as delays by USDA in implementing the program.

Section 9011 Carbon Utilization and Biogas Education Program

This new program was established in the 2018 farm bill and requires the Secretary to award competitive grants to eligible entities for two purposes:

1. education to the public and biogas producers about the benefits of carbon utilization and sequestration; and
2. education about the opportunities to aggregate multiple sources of organic waste into a single biogas system.

The 2018 farm bill provided no mandatory funding for the program but authorized discretionary funding of \$2 million annual for each of FY2019-FY2023. No funds have been appropriated through FY2019.

Recommendations

While anaerobic digestion technology is mature, greater deployment throughout the rural economy has been slowed due to a lack of awareness and farmer education about how they work and their benefits. Digesters are one of the greatest methods available to trap methane emitting waste products such as manure and crop residues and convert it to renewable energy, nutrient-rich soil amendments, fertilizers, renewable natural gas, and feedstocks for renewable chemicals and bioplastics. Providing greater education and outreach to farmers and agricultural producers could greatly increase the deployment of digesters as well as the utilization of farm bill energy title programs that support digesters. We urge the Committee to support fully funding the \$2 million authorized annually for this program.

Biogas Opportunities Task Force

Language directing USDA, EPA and DOE to establish an Interagency Biogas Opportunities Task Force (building upon the existing Biogas Opportunities Working Group) was contained in the Conference Report accompanying the 2018 farm bill.

This provision states that no later than 180 days after the date of enactment of the Agriculture Improvement Act of 2018, the USDA Secretary in coordination with the Secretary of Energy and the EPA Administrator will establish an Interagency Biogas Opportunities Task Force to coordinate policies, programs, and research to accelerate biogas research and investment in cost-effective biogas systems.

The Task Force is composed of the head of each Federal office responsible for biogas research or biogas system financing, including a representative from the Department of Agriculture, the Department of Energy, the Environmental Protection Agency (EPA), and National Renewable Energy Laboratory. The Task Force will also have 1 or more representatives of State or local governments, 1 or more nongovernmental or industry stakeholders, and a community stakeholder.

The Task Force will evaluate and improve the coordination of loan and grant programs of the Federal agencies represented on the Task Force to broaden the financing options available for biogas systems. It will also explore how to enhance opportunities for private financing of biogas systems; review Federal procurement guidelines to ensure that products of biogas systems are eligible for and promoted by applicable procurement programs of the Federal Government; evaluate the development of North American Industry Classification System and North American Product Classification System codes for biogas and biogas system products; review opportunities and develop strategies to overcome barriers to integrating biogas into electricity and renewable natural gas markets; develop tools to broaden the market for non-energy biogas system products; provide information on the ability of biogas system products to participate in markets that provide environmental benefits; identify and investigate research gaps in biogas and anaerobic digestion technology; including research gaps in environmental benefits, market assessment; and performance standards; assess the most cost-effective voluntary

investments in biogas to reduce waste and methane emissions; and identify and advance additional priorities, as determined by the Task Force.

Not later than 18 months after the date of the establishment of the Task Force, the Task Force will submit to Congress a report that identifies whether it was able to carry out the duties outlined above and include recommendations on how Congress should prioritize policies and technological opportunities, aimed at expanding the biogas industry. The report will also consider recommendations on how to eliminate barriers to investment in biogas systems in the landfill, livestock, wastewater, and other relevant sectors; and to enhance opportunities for private and public sector partnerships to finance biogas systems. Two years after the establishment of the Task Force it will identify, collect, and analyze environmental, technical, and economic performance data relating to biogas systems, including the production of energy from biogas systems, co-products, greenhouse gas and other emissions, water quality benefits, and other data necessary to develop markets for biogas and biogas system co-products. The data will be made public.

To date, this language has not been acted upon. We have been told by USDA Administration that unless the language is statutory or unless Congress provides additional funding to implement this provision that it will continue to be ignored.

Recommendations

Implementation of the Biogas Opportunities Task Force will help drive research, collaboration, innovation, education, outreach and deployment of anaerobic digestion technologies. As the Biogas Opportunities Working Group recognized, these technologies help turn agricultural challenges into opportunities by converting manure and other agricultural wastes into renewable energy, nutrient-rich soil amendments, fertilizers, a renewable natural gas, and even feedstocks for renewable chemicals and bioplastics.^{xiv} We urge the Committee to support this language and work with the Agency to oversee its implementation.

Non-USDA/Non-Farm Bill Programs

Renewable energy production plays a key role not just in agricultural policy, but also in energy, tax, and environmental policy. As a result, many of the federal programs that support renewable energy production in general, and agriculture-based energy production in particular, are outside the purview of USDA and have origins outside of omnibus farm bill legislation. The Renewable Fuel Standard, for example, was established outside of farm bill legislation.

The Renewable Fuel Standard

The RFS mandates an increasing volume of biofuels use and has its origins in the Energy Policy Act of 2005 (P.L. 109-58). The RFS was expanded in the Energy Independence and Security Act of 2007 (EISA; P.L. 110-140) and divided into four distinct, but nested, biofuel categories—total, advanced, cellulosic, and biodiesel—each with its own mandated volume. Biogas qualifies as both a cellulosic and advanced biofuel, depending on the feedstock. In fact, biogas makes up well over 90% of the annual cellulosic volumes. Additionally, biogas from non-cellulosic feedstocks such as food waste is a growing category. While not a USDA administered program, the RFS significantly impacts the on-farm and rural economy because it can be a significant source of revenue to farms when administered properly by EPA. Additionally, USDA recommendations assist in the calculations of annual renewable fuel volume targets. When the RFS is being administered well and running smoothly, it provides an additional stream of income that can help buffer the effects of on-going trade disputes or the impacts of bad weather. When the RFS is being administered poorly, it can add to the farmers and agricultural producers' woes.

Waivers

We strongly argue that the continued abuse of the small refinery exemptions undermines the integrity of the RFS and is in direct contravention of the statute passed by Congress in 2007. We urge the EPA to limit the use of these waivers to only their intended purpose.

Biomass Derived Renewable Electricity

When reauthorized and expanded through the Energy Independence and Security Act of 2007 (EISA; P.L. 110-140), Congress included electricity made from renewable biomass as part of the fuel mix in the RFS. One of the main goals of the RFS is to incentivize the development and deployment of new American produced biofuels, which will create energy independence and new markets for producers including the electricity produced from biomass.

Furthermore, EPA included electricity derived from biogas in the Renewable Fuel Standard Program.^{xv} Yet, while numerous applications to generate biogas derived electricity have been submitted, none have been approved. The EPA has yet to set up the processes necessary for producers to generate Renewable Identification Numbers (RINs). As shrinking markets and trade wars increasingly strap small farmers, the revenue that they should generate from the sale of these eRINs may be the difference between shutting down and staying open.

Building electricity into the RFS is not a way to incentivize electric vehicles. One may only look to how the ethanol market works to understand. The producer of ethanol receives the RIN credit for fuel blended into the larger gasoline supply. This in no way encourages or discourages the use of traditional vehicles; it simply ensures the producer of biofuels gets the credit to which they are entitled under the RFS. The same applies to renewable electricity powering electric vehicles. Biofuels, such as the biogas produced from anaerobic digesters, are already being "blended" into the electricity supply but the producers of these biofuels are not able to receive the RINs credit. The use of the biogas, which consists of methane and carbon dioxide, as a fuel to generate renewable electricity helps improve our air quality, water quality, soil health, and the environment while mitigating the effects agricultural production has on our climate.

Incorporating electricity into the RFS is also not a threat to ethanol producers. The majority of the fuel would be added to the cellulosic biofuel category (D3 RIN), which is separate from the ethanol market's D6 RIN.

Recommendations

If Congress is looking for a way to help farmers during the difficult trade talks and the competing interests of the oil industry, supporting the RFS would be an ideal way of doing so. Ensure the integrity of the RFS by only granting waivers to those small refiners who truly qualify. We also ask Congress to uphold the letter and intent of the RFS by directing EPA to include renewable biomass derived electricity to the annual blending requirements. Agricultural producers should be allowed to participate in the RFS as Congress originally intended, and it would help producers stay afloat even with other uncertainties.

Conclusion

Farm Bill energy title programs have been incredibly successful in growing the on-farm and rural economy. Because of the research, loans, and grants provided by these programs, biogas and biotechnology companies are developing new

technologies and feedstocks for the conversion of biomass for the production of renewable energy, advanced biofuels, renewable chemicals, renewable fertilizers and biobased products.

The biogas industry is on the cusp of creating a robust biobased economy through U.S. biobased production, which strengthens rural and on-farm economies. Biogas systems encompass a value chain from agriculture through the manufacture of consumer goods that provides a cost-competitive alternative to petroleum's value chain and brings environmental, economic and other benefits.

Encouraging growth of our industry provides new markets for farmers and agricultural producers, promotes innovation in domestic manufacturing and exports, and stimulates sustainable economic growth. In turn, because the inputs and technologies are domestically developed, this sector will boost the incomes of America's farmers, revitalize rural communities, create high-skilled jobs in the manufacturing sector, and provide sustainable employment.

The ABC and the Ag Energy Coalition are ready to serve as a resource to the Committee in implementing the farm bill's energy title programs and look forward to working with you as you do so.

ⁱ United States Department of Agriculture Economic Research Service, 2019 Farm Sector Income Forecast
<https://www.ers.usda.gov/topics/farm-economy/farm-sector-income-finances/farm-sector-income-forecast>

ⁱⁱ USDA BioPreferred <https://www.biopreferred.gov/BioPreferred/faces/Welcome.xhtml>

ⁱⁱⁱ Ibid

^{iv} Ibid, Product Categories

^v USDA Biorefinery Renewable Chemical and Biobased Product Manufacturing Assistance Program
<https://www.rd.usda.gov/programs-services/biorefinery-renewable-chemical-and-biobased-product-manufacturing-assistance>

^{vi} USDA Advanced Biofuel Payment Program <https://www.rd.usda.gov/programs-services/advanced-biofuel-payment-program>

^{vii} USDA Rural Energy for America Program <https://www.rd.usda.gov/programs-services/rural-energy-america-program-renewable-energy-systems-energy-efficiency>

^{viii} USDA National Institute of Food and Agriculture BRDI <https://nifa.usda.gov/funding-opportunity/biomass-research-and-development-initiative-brdi>

^{ix} Ibid

^x USDA BCAP <https://www.fsa.usda.gov/programs-and-services/energy-programs/BCAP/>

^{xi} See FSA, USDA, "BCAP Project Area Information," at <https://www.fsa.usda.gov/programs-and-services/energyprograms/BCAP/bcap-project-area/index>.

^{xii} Biomass Crop Assistance Program (BCAP) Qualified Biomass Conversion Facilities (BCF's) FY 2017
<https://www.fsa.usda.gov/Assets/USDA-FSA-Public/usdfiles/Energy/BCAP%20Facility%20Listing%20FY2017.pdf>

^{xiii} USDA Resumes Incentives to Grow the Bioeconomy and Improve Forest Health. https://www.fsa.usda.gov/news-room/news-releases/2016/nr_20161110_rel_185

^{xiv} Biogas Opportunities Roadmap, *Voluntary Actions to Reduce Methane Emissions and Increase Energy Independence*, August 2014.
https://www.energy.gov/sites/prod/files/2014/08/f18/Biogas%20Opportunities%20Roadmap%208-1-14_0.pdf

^{xv} Approved Pathways for Renewable Fuel <https://www.epa.gov/renewable-fuel-standard-program/approved-pathways-renewable-fuel>

**Michael Stanley's Testimony
(approximately 4-5 minutes)**

As CEO of Grace Health, I want to share my appreciation for the USDA Distance Learning and Telemedicine (DLT) grant awards in 2011, 2016, and most recently the 2018 Telehealth Equipment Funding for \$650,000 that includes \$154,000 in matching funds for an additional 9 School Based Health Sites, 7 Clinics Sites, and 6 Nursing Home Sites.

Grace Community Health Center d/b/a Grace Health is a Federally Qualified Health Center with primary care clinics serving Southeastern Appalachian Kentucky. Grace Health's priority is to serve the most vulnerable populations including children, older adults, pregnant women, and people with low-incomes. We accept Medicaid, Medicare, and private insurance but also provide services on a sliding fee scale to those who are uninsured or under insured.

For Grace Health's USDA DLT project, the service area is located in southeastern Kentucky, near Virginia to the east and bordering Tennessee in the south and includes Bell, Clay, Knox, Leslie, Owsley and Whitley Counties. All of our service area counties have been designated as part of the federally designated eastern Kentucky Promise Zone designed to encourage economic and educational development in one of the nation's most impoverished areas. The counties are also designated as USDA StrikeForce Zone. The service area is located in the Eastern Coal Field region of the state and is comprised of rugged terrain composed of soaring mountains and verdant valleys.

Grace Health sees telemedicine as an opportunity to improve the work environment for health care providers and thus assist in provider retention. Innovative strategies such as telemedicine provide access to resources and support for both the patient and the provider giving the provider a more realistic chance of "making a difference" that isn't always possible when these resources are not accessible.

Grace Health has identified four primary needs to be addressed through telemedicine:

- 1) Access to Health Care Providers and Services
- 2) Transportation
- 3) Behavioral Health Treatment (Mental Health and Substance Abuse Treatment)
- 4) Patient Engagement.

To meet these needs, Grace Health has expanded telemedicine to 36 sites including six primary care clinics, one women's health clinic, nineteen school-based health centers, seven nursing homes, and one hospital. Services include primary care, consultations, behavioral health, and patient engagement. With telemedicine, rather than traveling to different clinics for different

services, patients are able to access most of the services they require at a clinic in their own community.

Using telemedicine, Grace Health's mental health providers have increased the number of patients served. Through telemedicine, our behavioral health providers have access to all of our primary care clinics as well as all of our school-based health centers. This increases the efficiency of our providers and greatly enhance services.

Grace Health has improved patient engagement by increasing access to care, providing supportive services and providing warm-handoffs through telemedicine. Access is the most basic form of patient engagement. Telemedicine helps us to increase our access points for services. When it is easier to access care, patients are more likely to receive the services they need to manage their health.

As of July 1, 2019, Kentucky's new telehealth rules for Medicaid and Commercial Health Plans help sustain telehealth programs through reimbursement of telehealth services. Kentucky is now a telehealth parity state. If a clinical encounter is reimbursable when conducted in a traditional in-person visit, that same encounter will be reimbursable when conducted via telehealth technology. This includes all services, providers and locations and the value of a telehealth encounter is equivalent to a traditional in-person encounter unless the payer and provider have negotiated a reduced payment rate.

In my personal opinion, telehealth is part of the answer to our primary care physician shortage in the rural underdeveloped areas of our country. I'm grateful for the opportunity to partner with the USDA DLT program. And, I'm committed to the success of this program that will improve the health care outcomes of your constituents that are our patients.

USDA Distance Learning and Telemedicine (DLT) Award Projects Summary
Grace Community Health Center, Inc. d/b/a
Grace Health

Residents of eastern Kentucky struggle with complex health and mental health /substance use issues that are compounded by the high rates of diabetes, hypertension, heart disease and COPD. Economic factors, low literacy rates, transportation barriers and the shortage of health care providers create a situation in which some of the least healthy folks have limited access to healthcare services. Grace Health implemented a telemedicine program to combat these barriers to care. Telemedicine needs are clearly evident in the needs discussed below. The plan developed by Grace Health to address this need have widespread impact for low income, medically underserved residents of southeastern Kentucky.

Grace Community Health Center d/b/a Grace Health is a Federally Qualified Health Center with primary care clinics serving Southeastern Appalachian Kentucky. Grace Health's priority is to serve the most vulnerable populations including children, older adults, pregnant women, and people with low-incomes. We accept Medicaid, Medicare, and private insurance but also provide services on a sliding fee scale to those who are uninsured.

For Grace Health's USDA DLT projects, the service area is located in southeastern Kentucky, near Virginia to the east and bordering Tennessee in the south and includes Bell, Clay, Knox, Leslie, Owsley and Whitley Counties. All of our service area counties have been designated as part of federally designated eastern Kentucky Promise Zone designed to encourage economic and educational development in one of the nation's most impoverished areas. The counties are also designated as USDA StrikeForce Zone. The service area is located in the Eastern Coal Field region of the state and is comprised of rugged terrain composed of soaring mountains and verdant valleys.

Grace Health purchased and implemented telemedicine equipment at 33 sites. The focus of our program is to utilize telemedicine equipment to provide primary care, behavioral health, and patient engagement services using telemedicine. Grace Health operates all the clinic sites and seven sites are partner sites. These seven partner sites include: Owsley County Health Care Center, Laurel Creek Health Care, Barbourville ARH Hospital, HillCrest Nursing Home, Christian Health Center, Corbin Nursing Home, and The Heritage. Across the six nursing home partners there are 614 beds. Grace Health is using telemedicine to expand services to rural communities that do not have the population and demand to support full-time health care providers. Through telemedicine one provider is able to serve multiple rural sites much more effectively without having to deal with extensive travel.

The residents of our service area have a significant unmet need for health care. Specifically, our service area has seen a large increase in opioid addiction and overdoses but has limited services available to treat substance abuse. Using telemedicine, we've expanded access to services including mental health and substance abuse treatment across all of our sites. When you consider the community context and the prevalence of poverty, unemployment and limited educational attainment within our service area, it is strikingly evident that the telemedicine services have the potential to offer resources and have an immediate impact on the lives of the rural residents we

serve. Grace Health will provide primary care, behavioral health, and patient engagement services to 950 patients in 2,700 telemedicine visits.

Service Area Need

The six county service area has a population of 132,466. The service area has a lower percentage of the population that is under the age of 18 and a higher percentage of the population that is over the age of 65 than state and national rates. One possible cause of the significantly lower rate of the population younger than the age of 18 is the out-migration that has been occurring the service area for decades. Consistent with the demographics of much of Kentucky's rural areas, the vast majority of the population is White (96.1%), only 1.9% are Black/African American, and 2.0% identify as another race.

Economic Climate

Located in the Appalachian Mountains, the service area has long-faced economic troubles. These concerns are exacerbated by the decline of the coal industry, which once dominated the local economy. The service area's per capita income is less than half the national per capita income and the **poverty rate is more than double** the national poverty rate (32.9% compared to 15.5% nationally). While much of the nation, including most parts of Kentucky, have recovered from the 2008 recession, the service area still has an incredibly high unemployment rate (7.8%) that has shown little improvement since the end of the recession.

The child poverty rate in the service area is **more than double the national child poverty rate of 21.7%**. High child poverty results in a high percentage of students in each county that qualify for the National School Lunch Program (NSLP). NSLP participations rates range from 61.35% in Corbin Independent Schools to 100% in six of the nineteen school sites served. Across the service area the average NSLP is 85.3%. The vast majority of children across the service area live in high poverty areas, and 100% of children live in high poverty areas in Clay, Knox, Leslie, and Owsley Counties. The majority of schools in these counties provide free school meals (breakfast and lunch) to all students as a result of the high poverty rates. For many children these are the only meals they eat each day and many of them take home backpacks full of food on Fridays provided by social services programs and churches to make sure these children have food over the weekend.

It is no surprise then that the economic status of residents is directly tied to whether they access health care. Inability or difficulty paying for health care is one of the most commonly reported barriers to healthcare utilization. The service area has high numbers of residents with low-incomes, unemployment, and public assistance. Those who experience economic barriers to healthcare are less likely to go to the doctor, less likely to have preventative screenings, and more likely to use emergency departments or urgent care facilities. Many must delay accessing health care due to cost, which leads to later diagnosis of serious illnesses, the development of chronic diseases, premature mortality, and medical morbidity.¹ When those with low-incomes do access health care, they are five times more likely to have high health care expenses than high-income individuals.¹¹ This creates a cycle of debt, delayed care, and the escalation of health problems. Grace Health provides affordable health, mental health and substance use services for low-income populations. We offer a sliding fee discount for uninsured and underinsured patients to help off-set the costs of care. The discounted fee schedule is based on the federal poverty guidelines and helps mitigate this barrier.

Education Needs

The rate of people in the service area without a high school diploma or GED is more than double the national and state rates (30.8% compared to 13.3% and 15.8% respectively). This means that people in the service area are less likely to have completed a high school education. Similarly, the rate of service area residents with a Bachelor's Degree or higher is less than half the rate of the state and nation meaning that people in the service area are less likely to have achieved higher education. Access to education affects many other areas of life. Without education, finding a high paying job is more difficult and many do not have the skills they need to thrive in the current economy. Education also affects reading levels and understanding of health care terminology and directions.

Health Needs

Nearly one third of the population has poor general health, and on average residents have 5.9 poor physical health days per month. During these days their health keeps them from performing daily tasks such as going to work. The impact of poor health can be felt on the area businesses that cannot be as productive without full workforce capacity.

The service area has high rates of behaviors that lead to poor health. Across the service area 82.3% of the population has inadequate fruit and vegetable consumption.ⁱⁱⁱ Just over a third of the population (33.8%) has no leisure time physical activity.^{iv} Kentucky has some of the highest rates of smoking in the nation, and 30.7% of the population smokes compared to 18.1% nationally.^v The service area population has a very high rate of obesity at 38.2% compared to 32.7% in Kentucky and 27.5% across the nation. Poor health behaviors lead to poor health outcomes including high rates of chronic disease such as diabetes (13.2%^{vi}), asthma (19.4%^{vii}) and heart disease (12.2%^{viii}).

Poor health behaviors and chronic health conditions combined with lack of access to health care lead to poor health outcomes. Mortality rates in the service area are alarmingly high compared to state and national rates. The lung disease mortality rate in the service area is more than double the national rate (91.3 per 100,000 compared to 41.7 per 100,000). The premature death rate is almost double the national rate (13,147 year lost per 100,000 compared to 6,588 years lost per 100,000).

Need for Access to Healthcare

The lack of health care providers in the service area is the largest barrier to accessing care. Rural primary care provider shortages have been widely reported. In Kentucky, while 43% of the population lives in rural areas, only 28% of physicians work in rural areas.^{ix} The majority of the service area is designated as a Health Professional Shortage Area (HPSA) for primary care, mental health, and dental care.

Another barrier to accessing care is limited access of children to school nurses. The school districts in the regions we serve have had budget cuts requiring that funds be spent on teacher

salaries and other areas that are seen as higher priority. More peripheral services, such as nursing are no longer being supported. At the same time that school budgets were cut, our local health departments had their budgets cut, and they are no longer able to afford to place nurses in schools. We have now expanded to serve 39 schools that have access to a nurse and a nurse practitioner. One of the barriers we have run into is that while we want to make a nurse practitioner available at the schools, the demand for the small rural schools does not support a full-time provider and our nurse practitioner must travel between multiple schools. This limits the amount of time children have access to the nurse practitioner and does not always align with the need in the school. In addition, schools are facing an increase in behavioral health problems among children of all ages and have almost no services on-site to support these students. Grace Health has three mental health providers that serve children - it is clearly impossible for three people to travel across over 39 school sites to meet the growing demand.

Older adults who reside in nursing homes and rehabilitation facilities in the service area have unique barriers to accessing care. Grace Health seeks to improve the health of the older adult population in our service area by providing medical rounds in seven nursing homes. We have two nurse practitioners who serve the nursing homes. The nurse practitioners consult with an internist to provide the care that is needed. However, they currently can only provide care while they are on-site. Often providers cannot leave the clinic to serve the nursing home patients. Nursing home residents often need care urgently, and if a provider is not immediately on-site staff have the patient brought to the emergency room.

Need for Access to Behavioral Health

In many parts of the service area, there is extremely limited access to behavioral healthcare services, which affects the rates of diagnosis. The service area has a higher population to primary care ratio than state and national rates and every county is designated as a Mental Health Professional Shortage Area. As has been widely documented in the news recently, we are in the midst of an opioid epidemic. Kentucky has the third highest drug mortality rate in the United States.^X A report from the Kentucky Injury Prevention Center (January 2016) found that in 2014 in the service area, 68% of all those diagnosed with drug dependence were diagnosed with opioid use disorders. More than one-third (35%) of residents in Eastern Kentucky report that they or a family member have experienced problems as a result of abusing prescription painkillers.

With the increase in opioid use, there has been an increase in drug overdose deaths. According to the Department of Health and Human Services, more people died from drug overdoses in 2014 than in any year on record, and 60% of these overdoses involved an opioid. The drug poisoning mortality rate in the service area is just over **four times higher** than the national drug poisoning mortality rate and more than two times the Kentucky drug poisoning mortality rate.

The problem extends to pregnant women. Data from our partner hospital Baptist Health Corbin (BHC) show that the number of births to mothers who tested positive for an illicit substance has increased from 6% in 2013 to 7% in 2014 and 2015. In 2016, 8.3% of all births at BHC were to mothers with a positive drug screen, and mothers had a history of drug use in 15.5% of all births. Grace Health in partnership with Baptist Health Corbin has a program out of our Women's Health clinic that provides counseling services to pregnant women who are using illicit substances. The Licensed Clinical Social Worker (LCSW) who provides these services is based at the Women's Health Clinic, but the participants are from all across our service area. The

treatment protocol includes more visits than there are prenatal visits. Whenever possible, we align scheduling for LCSW visits around prenatal care visits, but often our patients are required to make additional trips to the clinic. Using telemedicine, the patients are able to access services at the clinic that is nearest to their residence and get services when they need them, not just when they are able to travel to the clinic.

Though Kentucky has seen a **900% increase in the demand for treatment for addiction to prescription painkillers** in the last decade, there has been little increase in the availability of care. There are very few behavioral health providers who can treat substance abuse disorders and extremely few options for medication assisted treatment for opioid use. Few substance abuse treatment providers accept Medicaid and some don't accept any insurance at all. This makes treatment inaccessible for much of the population. The mental health providers who do accept Medicaid often have wait lists that are months long or require significant travel. Grace Health offers an integrated behavioral health program, but these services are not available at all of our clinics due to the cost associated with having behavioral health providers at each location. Through telemedicine, we have the capacity to provide behavioral health and substance abuse treatment at all of our clinic sites without requiring additional patient or provider travel.

Outmigration

Eastern Kentucky, like many rural areas, is experiencing dramatic outmigration. In southeastern Kentucky, the economic climate (described above), the lack of jobs, and the lack of educational opportunities contribute to outmigration. Once a busy coal mining area, Eastern Kentucky has seen a detrimental decline in the coal industry. The health care industry is also affected by outmigration. Health care organizations in the service area have difficulty recruiting and retaining health care providers, particularly primary care doctors, specialists, and mental health providers. Health care providers in small rural areas often cannot support a doctor, which means that providers often must travel between multiple sites to provide care. Frequent travel leads to dissatisfaction among providers, and these positions are often lured to more urban centers by higher salaries and less demanding work environments. Grace Health sees telemedicine as an opportunity to improve the work environment for health care providers and thus assist in provider retention. Innovative strategies such as telemedicine provide access to resources and support for both the patient and the provider giving the provider a more realistic chance of "making a difference" that isn't always possible when these resources are not accessible.

Transportation

Geographical and transportation barriers impede access to health care. According to the US Census Bureau, 12.4% of all households in the service area have no vehicles compared to 7.9% across Kentucky and 9.1% nationally. According to the area walk scores, the service area is car dependent due to the lack of sidewalks and the distance between basic goods. The area has no public transportation and those without a vehicle are reliant on others for transportation, which compromises their ability to make it to appointments. A common experience for our patients is for them to borrow a car or get a ride from a friend, family member or neighbor to travel to medical appointments. However, these modes of transportation are unreliable and often result in missed appointments.

Patient Engagement

Patient engagement in healthcare means that patients have the tools they need to understand what

makes them sick, how to stay healthy, and what to do if their conditions gets worse. Patient engagement activities are broad reaching and are focused on removing the barriers to care. Patient engagement has become more of a priority in health care as the focus in healthcare has shifted toward providing value-based care. The healthcare industry is increasingly responsible for the quality of care they provide and the improvement of clinical outcome measures. Reimbursement for services is shifting from a quantity based focused where providers are paid for the number of encounters toward one where providers are paid based on the quality of the care they provide and their impact on patient health. However, without patient engagement in care, there can be little improvement in overall health. A recent study found that patients who engage in their healthcare have much better clinical outcomes than those who are not engaged in their healthcare.^{xi} Patients without the skills to manage their healthcare incur costs up to 21% higher than patients who are highly engaged in their care.^{xii} Grace Health uses patient engagement strategies across project sites using telemedicine.

Grace Health has implemented strategies like open access scheduling, reduced wait times between scheduling and appointments, and appointment reminders, to reduce our no-show rate, but improvements in our no-show rate have plateaued. We see telemedicine as an important strategy in reducing our no-show rate for both primary care and behavioral health. Providers can refer a patient to a provider at another clinic and provide the services through telemedicine. This reduces the travel burden on our patients and increases the likelihood of receiving services. If a telemedicine appointment is not feasible or reasonable (for services that need in-person contact), Grace Health can use telemedicine to provide introductions that develop trust between patients and providers.

Addressing the Need and Services Offered

Grace Health has identified four primary needs to be addressed through telemedicine:

- 1) Access to Health Care Providers and Services
- 2) Transportation
- 3) Behavioral Health Treatment (Mental Health and Substance Abuse Treatment)
- 4) Patient Engagement.

To meet these needs, Grace Health has expanded telemedicine to 33 sites including six primary care clinics, one women's health clinic, nineteen school-based health centers, seven nursing homes, and one hospital. Services include primary care and consultations, behavioral health, and patient engagement. With telemedicine, rather than traveling to different clinics for different services, patients are able to access most of the services they require at a clinic in their own community.

Using telemedicine, Grace Health's mental health providers have increased the number of patients served. Currently, the mental health services are located in the Gray Clinic located in Knox County, the Manchester Clinic located in Clay County, Bishop Street Clinic located in Whitley County, Pineville Clinic in Bell County, and in the Corbin Women's Health facility. School aged children have accessible services without driving about an hour one way. Drive times from this site to other clinics require too much time to be feasible. However, through telemedicine our behavioral health providers have access to all of our primary care clinics as all of our school-based health centers. This increases the efficiency of our providers and greatly enhance services.

Grace Health has improved patient engagement by increasing access to care, providing supportive services and providing warm-handoffs through telemedicine. Access is the most basic form of patient engagement. As discussed previously, telemedicine helps us to increase our access points for services. When it is easier to access care, patients are more likely to receive the services they need to manage their health.

Patient engagement is improved by providing insurance application assistance using telemedicine and care coordination. Our Grace Health outreach workers are a valuable resource to the community and have become trusted sources of information related to navigating health insurance applications and follow up. They have assisted thousands of individuals in our service area to apply for and maintain insurance coverage. Outreach workers currently spend 7 to 10% of their work time traveling per week. While it does not eliminate the need for travel, providing health insurance assistance over telemedicine equipment greatly reduces the time outreach workers spend traveling and the cost of traveling between sites.

Another application for telemedicine that has improved patient engagement in their care is providing patient education via telemedicine. When a patient needs additional education and guidance, a provider can use telemedicine to connect them to another staff member such as a nurse at another facility. Patient education helps patients know how to manage their conditions and also introduces them to a staff member who can answer their questions about their care.

To reduce no-show rates, Grace Health has been testing an innovative approach. We use telemedicine equipment to provide introductions or “warm handoffs” to providers when it is not feasible to provide a service via telemedicine. For example, if a pregnant woman from an outlying clinic site requires a prenatal visit at the Women’s Health Clinic, the primary care provider can provide an introduction and brief consultation using telemedicine. We believe making this connection with the OB provider reduces no-show rates, and we are tracking no-show rate data to test our assumption. One of our quality measures is related to early entry into prenatal care, which provides a greater chance of a health delivery. An increase in prenatal visits during the first trimester is critical in an area with higher rates of teen pregnancy than the national rate and higher rates of pregnant women who smoke. Showing up during those early months matters and telemedicine provides a great opportunity for early intervention.

Need for Financial Assistance

Grace Health provides primary care, behavioral health, and patient engagement services using telemedicine equipment located in nineteen school-based health centers, seven nursing facilities, and seven clinics. This approach eases the barriers faced by the communities we serve, increase access to primary care, expand behavioral health and substance abuse treatment and serve the most vulnerable population in the communities we served. Grace Health and our partners are committed to improving the outcomes of those we serve. Without telemedicine, we are unable to expand our services across sites due to the prohibitive cost and time involved in providers traveling between sites. In addition, because the sites are in rural areas, the demand for services and possible revenue is not sufficient to support the staff and services that are needed. As an organization, we are faced with difficult financial decisions that must balance the health care needs of our community with sustainability and fiscal responsibility. Telemedicine offers us a unique opportunity to expand our services across sites by expanding our capacity without expanding sites.

Benefits to Rural Residents

The benefits of telemedicine is wide reaching. We are expanding the number of access points for a variety of health care services. Specifically within the next three years, we anticipate achieving the following specific outcomes:

- Serve a total of **950** patients in **2,700** telemedicine visits
 - o Provide primary care services for adults including prevention and urgent care visits, visits with a diabetes specialist APRN, visit with a women's health specialist APRN, and care coordination with nursing home patients to **500** patients in **1400** patient visits.
 - This number includes an estimated **300** older adults residing in nursing facilities who will receive approximately **1,200** patient visits.
 - o Increase access to behavioral health/substance abuse treatment by providing direct services to **300** patients in **900** encounters. **75** are estimated to be new patients.
 - o Serve **150** children in school-based health centers for primary care and behavioral health in **400** patient visits.
- Save students an estimated **300** health related absences including missing school for an appointment or missing extra days for untreated illnesses (150 students, 2 absences each student). A great cost savings to the schools as they receive funding per student per day.
- Save student parents an estimated **150** days of missed work due taking sick children to a doctor's appointment.
- Save patients an estimated **\$53,446.50** in travel costs (average of 18.5 miles to hub, 18.5 mile return trip, expenses calculated at \$.535 per mile, 2,700 patient visits)
- Save patients an estimated **2,295** hours of travel time (average of 25.5 minutes one way, 25.5 minutes return trip 2,700 patient visits)
- Save **90 minutes** of travel per month for per outreach worker.
- Reduce the no show rate for Grace Health primary care services to **6%**.
- Reduce the no show rate for behavioral health to **15%**.

Additional benefits include expanding the services offered through telemedicine to include specialty services that are not currently available, preventing out-migration of providers, reducing social stigma for behavioral health and reducing emergency department visits and hospitalizations.

Description of the Grace Health and Our Partners

Grace Community Health Center d/b/a Grace Health

Grace Health is the lead for the Distance Learning Telemedicine in our service area. We are a Federally Qualified Health Center that provides health services in Bell, Clay, Knox, Leslie, and Northern Whitley Counties in Kentucky. GCHC was first funded through HRSA's community health center program in 2008 and has since expanded to include seven satellite sites including a women's care clinic and 39 school-based health center sites. Grace Health serves nearly 34,431 patients including 7,600 students in school-based health centers. We aim to increase access to affordable health care for medically underserved residents who are medically vulnerable due to barriers to adequate care and the unique characteristics of the region.

Grace Health has placed telemedicine equipment at seven clinic sites and nineteen school-based health center sites. Each of the clinic sites serves as hubs/end users while the school-based health

centers and nursing homes serve as end-user sites. Grace Health provides behavioral health, primary care, consultation, and patient engagement services using telemedicine equipment. In addition, we have placed equipment in local nursing homes to improve care coordination for elderly patients.

Telemedicine Partners

Owsley County Health Care Center is a 91-bed non-profit nursing home facility serving Owsley County. This facility accepts Medicare and Medicaid. The nearest hospital is Manchester Memorial located in Clay County. **Laurel Creek Health Care Center** is a 106-bed nursing facility. The facility provides a full range of rehabilitative services and accepts Medicare and Medicaid. **Barbourville ARH** is a modern, 25-bed critical access hospital serving southeastern Kentucky. The hospital provides comprehensive health services including Nuclear Medicine, Surgical Services, Physical Therapy, Spiral C.T., Mammography services, MRI services, and a fully staffed 24-hour Emergency Room. **Hillcrest Nursing Home** is a 100-bed nursing facility. The facility provides 24-hour nursing, radiology, laboratory, pharmacy services, and physical, occupational, and speech therapy to southeastern Kentucky. **Christian Health Center** is a 100-bed non-profit nursing home. This center provides 24-hour nursing care to their residents. **Corbin Nursing Home** is a 100-bed nursing facility providing 24-hour nursing care, radiology, laboratory, pharmacy services and physical, occupational and speech therapy. **The Heritage** is an 85-bed nursing and rehabilitation facility providing a full range of services including short-term rehabilitation therapy, post-hospital care, skilled nursing care, and long-term nursing care. Grace Health currently has arrangements to conduct medical rounds at each of the partner facilities.

Total 2018 Telemedicine Cost

The total telemedicine cost was \$649,866 for the latest award project. Of this, Grace Health contributed \$153,786, which is 31% of the USDA DLT grant award of \$496,081.

Telemedicine Facility

Grace Health meets the regulatory definition of telemedicine as defined in §1703.102, connecting patients and clinicians in underserved rural communities in Southeastern Kentucky with clinical specialists located in the hub facilities.

The private Grace Health network is comprised of broadband connectivity between seven hub/end-user sites and 15 end-user sites using 50Mbps symmetric broadband network connectivity from Internet Service Providers (ISPs) serving southeastern Kentucky. The network is designed to be very reliable and to provide a high-quality bandwidth to support high-end videoconferencing for telemedicine and distance-learning applications between the five locations. The design specifies a high availability of network access with little or no downtime. For access to the Internet, there is a single highly protected broadband access point at the Grace Health- Gray Clinic.

Each location has a specialized PC-based patient examination workstation connected to the network through a dedicated switch and router. Video conferencing uses H.323 IP video conferencing standard and typically operates at 1 Mbps for high quality video between patient and doctor. The telemedicine carts capture several modalities of diagnostic information and transmit this information in real time or as stored data files to specialist physicians at any site on the network. We primarily be using live video transmission in order to maximize reimbursement

for services.

The network technical hub site is located in the Grace Health Gray Clinic located at 39 Cumberland Gap Plaza in Gray Kentucky. This site is located in a rural area. This is a highly secure environment with routing and switching equipment installed with connections available to all the major telecommunications carriers. The network is elegantly simple and workable in design and execution. It is also affordable as the sites are eligible for support from the FCC Rural Health Care Universal Service Fund. Grace Health is enrolled in this program and continues to take advantage of this program. The infrastructure is large and strong enough to take on many more applications.

We access these networks using standards-based commercially available networks. These networks have a core backbone network capable of handling bandwidths in excess of 1 Gigabit per second. On an applications level these networks connect to other premier healthcare facilities for telemedicine, clinical mentoring, and grand rounds. In particular, they are compatible with the Baptist Health Foundation Corbin's Telehealth Network and the Kentucky Telehealth Network.

Telecommunications System

Bridge Infrastructure

The bridge infrastructure is located at the Grace Health – Gray Clinic, which is our largest clinic space. The primary component to the bridge infrastructure is the Polycom RealPresence Clariti. The RealPresence Clariti includes audio and video bridging, call control, client software, security and scheduling. The Clariti is standards-based meaning that we have the possibility to collaborate with partners who have other standards-based telemedicine solutions. The Clariti allows for up to 50 concurrent calls at 1080p and up to 100 concurrent calls at 720p. Licenses can be assigned to laptops, and desktops. If needed, Grace Health can increase the licenses to include additional concurrent calls.

Mobile Telemedicine Utility Carts

Grace Health has purchased a total of 22 utility carts. These carts are mobile, comprehensive units, which allows each site above to transfer equipment to the room where it is needed. Each cart includes a 27-inch LED flat panel display, an EagleEye HD camera, a speaker kit and a cable bundle. The 500 Group Series codec provides HD 720p video and superior audio communications across a customer's IP network, including 12x zoom high definition camera and the Polycom patented microphone array solution. This cart was a natural fit for our school clinics because they can be scaled to meet the needs and the available budget of the respective clinics. In our nursing homes, the carts can move from room to room as the provider performs medical rounds. In our clinic sites, the cart can be wheeled into an exam room after a medical visit for another type of visit such as behavioral health consultation, substance use assessment or patient education.

Convene (Desktop Unit)

Grace Health has purchased six Convene Desktop units, which are all-in-one desktop units. One site, the Gray clinic, has two desktop units. One is used for the clinical psychologist and behavioral health team to provide behavioral health services across sites and one is used for patient engagement.

Four other clinic sites received a Convene system: Grace Health – Bishop Street Clinic, Grace

Health Falls Hwy Clinic, Grace Health- Clay Clinic, and Grace Health Hyden Clinic. This all-in-one unit includes a camera, microphone and the Group Series 310 software. The Group Series is open, standards-based, interoperable technology. Polycom's unique interoperable SVC architecture is the first to provide video calling between both existing video systems and new SVC systems.

Emergency Transportation

Our telemedicine does not include communication upgrades between ambulances, emergency transportation vehicles and medical facilities.

Description of Sites and Rural Residents Served

The table below shows each site, its location, designation and number of patients served. Descriptions of the organizations are included above under Description of Partners. Grace Health operates 25 of the 33 sites and partners with seven nursing home facilities and one hospital. The table below shows the telemedicine sites and locations.

#	Site	Description	Location
1	Grace Health- Gray Clinic	Grace Health primary care clinic. Also provides integrated behavioral health services.	Gray, KY
2	Grace Health- Gray Clinic	Grace Health primary care clinic. Also provides integrated behavioral health services.	Gray, KY
3	Grace Health- Bishop Street Clinic	Grace Health primary care clinic. Provides services to older adults in nursing facilities.	Corbin, KY
4	Grace Health- Falls Hwy Clinic	Grace Health primary care clinic. Provides services to older adults in nursing facilities.	Corbin, KY
5	Grace Health- Goose Rock Elementary	School-based health center operated by Grace Health	Manchester, KY
6	Grace Health- Paces Creek Elementary	School-based health center operated by Grace Health	Manchester, KY
7	Grace Health- Big Creek Elementary	School-based health center operated by Grace Health	Oneida, KY
8	Grace Health- Hacker Elementary	School-based health center operated by Grace Health	Manchester, KY
9	Grace Health- Burning Springs Elementary	School-based health center operated by Grace Health	Manchester, KY
10	Grace Health- Manchester Elementary	School-based health center operated by Grace Health	Manchester, KY
11	Grace Health- Hayes Lewis Elementary	School-based health center operated by Grace Health	Yeaddiss, KY
12	Grace Health- Oneida Elementary	School-based health center operated by Grace Health	Oneida, KY
13	Grace Health- Manchester Clinic	Primary care clinic. Also provides behavioral health.	Manchester, KY
14	Grace Health- Manchester Clinic	Primary care clinic. Also provides behavioral health.	Manchester, KY

15	Grace Health- Hyden Clinic	Primary care clinic	Hyden, KY
16	Grace Health- Women's Care Clinic	Women's health clinic. Also provides substance abuse treatment and mental health services to pregnant women.	Corbin, KY
17	Grace Health- Pineville Clinic	Primary care clinic. The hub for the school-based health telemedicine program	Pineville, KY
18	Grace Health- Pineville Clinic	Primary care clinic. The hub for the school-based health telemedicine program	Pineville, KY
19	Owsley County Health Care Center	Nursing facility receives services from Grace Health	Booneville, KY
20	Laurel Creek Health Care	Nursing facility receives services from Grace Health	Manchester, KY
21	HillCrest Nursing Home	Nursing facility receives services from Grace Health	Corbin, KY
22	Christian Health Center	Nursing facility receives services from Grace Health	Corbin, KY
23	Corbin Nursing Home	Nursing facility receives services from Grace Health	Corbin, KY
24	The Heritage	Nursing facility receives services from Grace Health	Corbin, KY
25	Clay County High School	School-based health center operated by Grace Health	Manchester, KY
26	Clay County Middle School	School-based health center operated by Grace Health	Manchester, KY
27	Corbin High School	School-based health center operated by Grace Health	Corbin, KY
28	Corbin Middle School	School-based health center operated by Grace Health	Corbin, KY
29	Corbin Elementary School	School-based health center operated by Grace Health	Corbin, KY
30	Paige Elementary	School-based health center operated by Grace Health	Pineville, KY
31	Bell Central School Center	School-based health center operated by Grace Health	Pineville, KY
32	Bell County High School	School-based health center operated by Grace Health	Pineville, KY
33	Mountain View Elementary	School-based health center operated by Grace Health	Hyden, KY
34	Stinnet Elementary	School-based health center operated by Grace Health	Essie, KY
35	W. B. Muncy Elementary	School-based health center operated by Grace Health	Wooton, KY
36	Barbourville ARH Hospital	Knox County Hospital Partner	Barbourville, KY

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- ⁱ Ahmed, S.M., Lemkau, J.P., Nealeigh, N., & Mann, B. (2001). Barriers to healthcare access in a non-elderly urban poor American population. *Health and Social Care in the Community*, 9(6), 445-453.
- ⁱⁱ U.S. Department of Health and Human Services (2010). National Healthcare Disparities Report. Retrieved from: <http://www.ahrq.gov/qual/qdr10.htm>
- ⁱⁱⁱ Centers for Disease Control and Prevention Behavioral Risk Factor Surveillance System 2005-09
- ^{iv} Centers for Disease Control and Prevention National Center for Chronic Disease Prevention and Health Promotion 2013.
- ^v Centers for Disease Control and Prevention Behavioral Risk Factor Surveillance System 2006-2012
- ^{vi} Centers for Disease Control and Prevention National Center for Chronic Disease Prevention and Health Promotion 2013.
- ^{vii} Centers for Disease Control and Prevention Behavioral Risk Factor Surveillance System 2011-2012
- ^{viii} Centers for Disease Control and Prevention Behavioral Risk Factor Surveillance System 2011-2012
- ^{ix} Association of American Medical Colleges (2012) Recent studies and reports on physician shortages in the US. Center for Workforce Studies Association of American Medical Colleges.
- ^x The Bridge Kentucky Office of Rural Health Spring 2015
- ^{xi} James, J. "Patient Engagement." February 2013. Health Affairs/Robert Wood Johnson Foundation. Available at: <http://www.rwjf.org/en/research-publications/find-rwjf-research/2013/02/patient-engagement.html>
- ^{xii} Robert Wood Johnson Foundation Issue Brief (2014) Engaging patients improves health and healthcare. *Quality Field Notes*, 3.



**Testimony before the United States Senate Committee
on Agriculture, Nutrition and Forestry
*"Implementation of the 2018 Farm Bill: Rural Development and Energy Programs"***

**Jeffrey W. Dwyer
Director, Michigan State University Extension
Senior Associate Dean, MSU College of Agriculture and Natural Resources**

November 7, 2019

Chairman Roberts, Ranking Member Stabenow, and distinguished members of the committee. Thank you for this opportunity to testify about the importance of strengthening health services in rural communities. My name is Jeff Dwyer and I am the director of Michigan State University (MSU) Extension and the senior associate dean of outreach and engagement in the College of Agriculture and Natural Resources at MSU.

Before I begin, I want to also thank you for coming to Michigan in 2017 to hold a field hearing at the Saginaw Valley Research and Extension Center as you prepared the 2018 Farm Bill. As you may know, Michigan farmers produce more than 300 commodities and their needs are as diverse as the crops they grow and the livestock they raise. Their voices are important in any discussion about agriculture, and I truly appreciate the time you took to listen to their concerns and suggestions.

This summer I did my own listening and learning during a 15-week tour of all 83 counties in Michigan. In addition to spending time with more than 600 colleagues and thousands of partners, supporters and friends, I saw firsthand the ongoing challenges in rural parts of the state and the risks that farmers take to feed the world. As one row crop farmer said to me in May, "I will be putting \$500,000 into the ground as soon as the weather gives me a chance to do that, and I have no idea what is going to happen." As of earlier this week, he was still unsure when he'd be able to harvest.

When I became the director of MSU Extension in 2016, the organization already had a 100-year-old reputation of serving rural audiences through agriculture education programs that helped farmers reduce risk while increasing production and profits. However, on the heels of engaging in the Flint Water Crisis and bringing our agriculture partners into that city through donations of milk, fresh vegetables and other commodities, my colleague at the Michigan Department of Agriculture and Rural Development (MDARD) expressed great concern about the uptick in suicides in rural areas—specifically among farmers and those working in agriculture, such as grain elevators, trucking and financial institutions. The Centers for Disease Control and Prevention has reported that farmers and farm workers attempt and complete suicide at a higher rate than other professions. In addition, the National Institute for Occupational Safety and Health examined 130 occupations and found farm laborers and owners had the highest rate of deaths due to stress-related conditions, such as heart disease, hypertension, ulcers and nervous disorders. Many more are injured. Those injuries, especially to the back and joints, encourage the use of painkillers, including opioids. The risks that American farmers endure on our behalf are significant.

We took immediate action to prepare our own staff members. Mental Health First Aid, an internationally-recognized program, was identified as a critical first step. This full-day, certificate training teaches people how to identify the signs of stress, how they manifest, and where they can find the resources to get help. I feel so strongly about the importance and impact of this training that I challenged all 600 MSU Extension faculty and staff members to get certified. To date, nearly three-quarters of our staff have completed the training, and we have offered it to hundreds of rural leaders and agribusiness professionals throughout Michigan. MSU Extension staff members are sentinels in their communities. They live there, they are trusted, and they know when there are issues in their communities. When trained in mental health awareness, they are able to better communicate those community needs in timely ways so that MSU Extension can be responsive.

Though we offered programming around stress management and chronic health conditions prior to 2016, we had not linked it directly to rural communities' specific needs. Nor had we armed our agriculture educators with the tools they needed to recognize symptoms of chronic stress and the resources they needed to help clientele. Two and a half years ago, we committed significant financial and human resources to helping farmers and those who love and care for them learn to identify the warning signs of stress, learn how to approach people suffering, listen empathetically and find resources. Subsequently, we have become nationally known for our work in this area. In January, we held a summit where 99 professionals from 19 states learned how to teach two curricula on this important subject.

For example:

- **Farm Stress Management Train-the-Trainer program**, which certifies Cooperative Extension staff in how to facilitate and deliver two important farm stress workshops, **Weathering the Storm** and **Communicating with Farmers Under Stress**.
 - **Weathering the Storm in Agriculture: How to Cultivate a Productive Mindset** shows farmers how to identify signs and symptoms of stress in themselves and their families and teaches stress management techniques they can use in their everyday lives.
 - **Communicating with Farmers Under Stress** is a workshop that teaches agricultural industry workers how to recognize and respond to signs of mental distress with the farm families they encounter in their work.
- **Bury Seeds, Not Stress** is a four-part webinar series that covers a diverse set of farm stress-related topics, such as recognizing signs of stress in youth and the mental health stigma facing men. Recorded versions of all Bury Seeds webinars are available for anyone who is interested on MSU Extension's [Managing Farm Stress website](#).
- Additional offerings on **MSU Extension's Managing Farm Stress website** include factsheets and articles on everything from farm finances to opioid abuse.
- MSU Extension's agriculture and health educators regularly team up to deliver comprehensive programming in local communities, which weaves farm stress topics into community meetings surrounding issues such as delayed planting and harvesting.
- MSU Extension is piloting a text messaging program to learn more about the struggles that Michigan farmers experience and what types of information may help.

- We are also at the beginning stages of developing a short certificate course for all mental health professionals so that they can learn the unique circumstances and challenges facing farmers, farm workers and those who work in agriculture as it relates to stress, depression, suicidology and substance abuse issues.

And this is just the tip of the iceberg. We are always looking forward to additional opportunities that will make a difference nationwide. For example:

- We have agreements with the American Farm Bureau Federation, the National Farmers Union and the Farm Credit Council with the goal of extending our current farm stress educational materials and creating new customized materials in online courses that will better prepare their employees to recognize the signs and symptoms of stress, and give them the ability to connect those in need with resources. MSU Extension will present in-person trainings to key organizational staff of the American Farm Bureau Federation and National Farmers Union. At their national conventions, we are training a subset of each organizations' staff members who will become facilitators of the farm stress education and will learn how to lead people in role-play and real-life scenarios that employees may encounter with struggling farmers.
- Recently, we were awarded a \$1 million grant from the Substance Abuse and Mental Health Services Administration (SAMHSA) to create evidence-based trainings on opioid misuse prevention, treatment and recovery. This partnership with the MSU College of Human Medicine (MSU CHM) and the Health Department of Northwest Michigan (HDNW) will develop standardized state-of-the-art trainings plus print and online technical assistance materials addressing the epidemic of opioid use disorders (OUD) in rural Michigan.
- We are also working closely with the lead investigator on MI-CARES, another SAMHSA-funded project, that is creating curriculum that will accredit medical students in addiction medicine.
- We obtained additional SAMHSA funding through the Michigan Department of Health and Human Services for a program to reduce high-risk behaviors that may lead to opioid use disorders and/or substance abuse among Michigan residents ages 55 and above.

All of this will help us continue to make a difference in the lives of rural residents in our state. Once we teach people to identify the signs of mental health challenges and addiction, we can connect them to appropriate resources. In fact, that is the best way to describe who we are in the behavioral health space—we are teachers and connectors. We are not therapists, physicians or psychiatrists, but we are finding ways to collaborate with them to benefit farmers and rural communities.

Our experience in farm stress management and community behavioral health in rural areas is not unlike the emerging role that Cooperative Extension needs to play in both rural and urban areas in the 21st Century. I am convinced that our significant investments in recent years to address suicide, opioid misuse and other mental and behavioral health issues would have been unsuccessful if our new colleagues with this training had walked onto farms and into rural communities alone. Instead, they arrived shoulder-to-shoulder with their agriculture colleagues who had the trust, relationships and gravitas to encourage people to listen. In 2017, we published an article in *Academic Medicine* (Dwyer et al., 2017) arguing that health Extension, particularly in more rural communities, should not be "modeled" on

the agricultural network of the Cooperative Extension System (CES) as suggested in the Affordable Care Act, but that “the CES represents an ideal vehicle for providing health-related research and care delivery given its proven track record, an existing budget, a staffing structure that includes content experts in human health, and well-developed local community partnerships.” We need to think differently and creatively about how the CES, together with local and regional partners, can assist rural communities. At MSU Extension, we do this by taking advantage of our century-long history of being embedded in all communities through a truly statewide network, and our broad expertise ranging from agriculture to youth and community development to health care and nutrition education.

During my 15-week road trip through Michigan, some common themes became evident in our rural counties:

- Rural Michigan is not equipped to care for aging baby boomers. According to the U.S. Census Bureau (2019), 17.5% of rural populations are 65 or older compared to 13.8% in urban areas. The challenges associated with the availability of medical specialties that serve the unique needs of older individuals, limited transportation, and limited access to innovative housing and smart-home options create unique challenges in rural America. Moreover, long-term care in the United States is still disproportionately provided by families, particularly spouses/partners and adult daughters. The availability of familial care options is less in rural areas due to the outmigration of younger generations and increasing likelihood that older people will not move to new areas.
- Our cries to “end the stigma” and encourage people to talk openly about mental health concerns will go unheeded as long as there is a shortage of mental health professionals. Creating networks of mental health and community behavioral health experts who can work closely with clinical experts locally and through telemedicine can be part of the answer.
- Many communities are in favor of creating substance-abuse facilities, but they don’t have adequate staffing. My MSU Extension colleagues in the Upper Peninsula are helping with this shortage by partnering with the Michigan State Police on a project called “In Plain Sight.” They have set up travel trailers to mimic a teen’s bedroom and demonstrate common red flags so that parents and caregivers can learn where young people may hide or disguise illegal substances.

We can work together on brick and mortar projects to house these much-needed services, but none of that matters if we don’t have qualified professionals to staff them. The key is to make rural communities a place where health care professionals want to live, work and raise their families.

The MSU College of Human Medicine uses an immersive approach to educating health physicians. Though the college’s headquarters are along the “medical mile” in Grand Rapids, third- and fourth-year medical students engage in disciplinary clerkships in any of nine primary teaching hospitals and 57 community hospitals throughout Michigan in seven community campuses including [Flint](#), [Grand Rapids](#), [Lansing](#), [Midland Regional](#), [Southeast Michigan](#), [Traverse City](#) and the [Upper Peninsula Region](#). A study published in the February 2018 issue of Academic Medicine concluded that distributed medical education campuses can have a significant effect on the long-term regional physician workforce. In fact, 20% of our graduates practice within 50 miles of their medical school campus. Students’ long-term

practice choices may also reflect the patient populations and specialty patterns of the communities where they learn. If you're a resident of Michigan's Upper Peninsula, there is a one-in-three chance that your physician is an MSU graduate.

I happen to be one of those lucky UP residents. I live in Munising, a lovely little town in Alger County. The 10,000 residents who call Alger County home have the privilege of living on the border of Lake Superior and in the gateway to the Pictured Rocks National Lakeshore. In this beautiful region, one-of-four residents are age 65 or older; we have significant concerns about suicide at all ages; and there are ongoing challenges with substance abuse and manufacturing. My wife Nancy and I are active in the business and health care communities - Nancy, was on the Board of Marquette General Hospital/UP Health Systems - Marquette for many years. We are aware of the difficulty of recruiting and retaining qualified health professionals of all types to rural areas. This is a rural community development challenge that needs your support ... not just a health care challenge. Emerging health professionals need assurance that there will be professional opportunities for their spouses and partners; affordable housing at reasonable prices as they struggle with increasing amounts of debt from education; excellent schools for their kids; a network of health professionals; and accessible broadband is imperative to recruit and retain health care professionals in rural areas, both from their professional need to be able to access the latest medical information and from a personal standpoint.

Rural development resources designed to leverage the assets of communities committed to creating a comprehensive and sustainable health care environment is critical and can be guided and supported by the existing networks of the CES.

And with or without adequate health care staffing, rural residents deserve the same access to telemedicine as their urban and suburban friends and family. Modern technology has enabled doctors to consult patients by using HIPAA compliant video-conferencing tools.

Telemedicine makes health care more accessible, cost effective and increases patient engagement. It gives parents of young children the ability to get help without the added risk of travel, and better equips seniors to age in place. And there is a whole set of other reasons why it makes sense in modern times. But none of them are relevant if patients don't have access to an affordable connection to broadband services.

Finally, the World Health Organization (WHO) defines Social Determinants of Health as "the circumstances in which people are born, grow up, live, work and age, and the systems put in place to deal with illness." This now well-established perspective based on a three-decade history of research still affirms that social and economic factors remain the most significant contributors to individual and population health. Adequate incomes, jobs, affordable housing, quality education, health services that are adequate, accessible and affordable, and many other social and economic determinants directly impact health at the individual and population levels. Often rural residents are disadvantaged on these dimensions and face additional challenges associated with distance, seasonality of economic opportunities, and the environment.

At Michigan State University, we are doing what we can to support rural residents in myriad ways. By working together with this committee and other partners on the federal, state and local level, I hope we can find more ways to provide the services people need. Thank you for your time today. I look forward to answering your questions.

QUESTIONS AND ANSWERS

NOVEMBER 7, 2019

Senate Committee on Agriculture, Nutrition, & Forestry
Hearing on Implementing the 2018 Farm Bill: Rural Development and Energy Programs
November 7, 2019
Questions for the Record
Administrator Bette Brand

Senator Debbie Stabenow

In Michigan, the local food economy is a growing sector of agriculture, contributing more than \$465 million a year to the local economy. The 2018 Farm Bill recognizes the economic potential of local and regional food systems through the creation of the Local Agriculture Market Program, which provides grants to support local foods, value-added agriculture, farmers markets, and regional food system partnerships.

1. What is Rural Development doing to improve coordination and collaboration with the Agriculture Marketing Service to better administer the Local Agriculture Market Program?

Response: The Value Added Producer Grant program continues to be a popular program with agricultural producers and Rural Development has been actively working to implement this program in its new home under the Local Agriculture Markets Program. Rural Development and the Agricultural Marketing Service have been working together to ensure that all programs under the Local Agriculture Markets Program are being communicated and administered as directed by the 2018 Farm Bill. Staff from both agencies meet regularly to discuss opportunities to streamline programs and improve customer experience. Examples of efforts to date include: sharing and integrating best practices, coordinating stakeholder engagement, and leveraging resources and capacity to expand outreach for all three programs.

2. When will the 2019 funding for value added producer grants be made available?

Response: Rural Business-Cooperative Service has developed the notice of funding available (NOFA) which will include mandatory Farm Bill funds and appropriated dollars. We anticipate publication prior to the end of the calendar year.

3. The Center for Climate and Energy Solutions recently identified algae-based production of feed, fuels, and chemicals from carbon captured at power plants, manufacturing facilities, and other carbon sources as a key pathway for decarbonization. What is USDA doing to support broader adoption of products derived from algae and other biomaterials that can help cut down on manufacturing processes that were formerly fossil fuel intensive?

Response: Rural Development's Biorefinery Renewable Chemical and Bio-based Product Manufacturing Program provides loan guarantees up to \$250 million to assist in the development, construction and retrofitting of new and emerging technologies from a variety of bio feedstocks, including algae. The emerging

technology can produce any combination of advanced biofuels, renewable chemicals and/or biobased products/intermediaries.

Additionally, the Business and Industry Guaranteed Loan program helps ensure that capital is available to support building the facilities directly related to and supportive of these industries. Examples would include: rail spurs; trucking; and other distribution methods.

The Biobased Markets Program, Section 9002, continues to support the goal of increasing the development, purchase, and use of biobased products through its certification and labeling program for biobased products as well as the requirement for Federal Agencies and their contractors to give purchasing preference to biobased products identified by the program.

4. In May of 2016, USDA issued a report – Building Blocks for Climate Smart Agriculture and Forestry. In that report USDA analysis showed the REAP program is one of the most effective programs the USDA has at their disposal to reduce carbon emissions – while providing economic benefits for rural communities. What steps is USDA taking to update this report and make this important information available to the public?

Response: RD is continuing to assess the performance of the REAP program to generate carbon-neutral benefits. In FY 2019, we administered REAP awards to all 50 states totaling over \$175 million. These awards will help agricultural producers and rural small businesses make energy efficiency improvements or utilize renewable energy systems.

5. In the President's October 4, 2019 biofuel announcement, USDA was mentioned having a role in the following capacity: "USDA will seek opportunities through the budget process to consider infrastructure projects to facilitate higher biofuel blends."

- a. Can you please provide additional details on this statement and outline Rural Development's role in consideration and development of these infrastructure projects and the stage of this decision? The Biofuel Infrastructure Partnership program, administered by USDA in 2015, was facilitated by the Farm Service Agency. Are there plans for Rural Development to now oversee the infrastructure grants being considered by this administration and if so, what makes Rural Development better equipped to do so?

Response: On October 4th, 2019, the Administration announced an agreement to expand domestic ethanol and biodiesel use under the Renewable Fuel Standard. As part of this agreement, USDA committed to seeking opportunities to consider infrastructure projects to facilitate higher biofuel blends of ethanol and biodiesel.

USDA is considering a number of options to facilitate infrastructure projects in support of higher biofuel blends. Rural Development has the capacity and

experience supporting infrastructure grant programs as well as large renewable energy projects and programs, such as the Biorefinery, Renewable Chemical and Biobased Product Manufacturing Program and the Advanced Biofuel Payment Program, both under the Energy Title IX of the 2018 Farm Bill.

6. Please provide the Committee with a list of all projects made within Rural Business Services for FY 2019. Please include the program, project amount, awarded entity, location, date awarded, and detailed project description.

Response: RBCS projects funded in FY19 are attached.

Senator Joni Ernst

1. Coordination of USDA, EPA and DOE programs could greatly assist in the greater deployment of digesters across the rural landscape. What is the current status of the establishment of the Biogas Opportunities Task Force?

Response: We agree that coordination across USDA, DOE, and EPA can facilitate greater deployment of digesters across the rural landscape. The request to establish a Biogas Opportunities Task Force was included in the joint explanatory statement to the 2018 Agriculture Improvement Act. Funding to support a task force has not been appropriated at this time, but we will continue to work closely with DOE and EPA to support the expansion of anaerobic digesters.

Senator David Perdue

1. Administrator Brand, thank you for taking the time to come before the Committee to discuss Farm Bill Implementation. Making sure that rural America has the financial tools that it needs to grow is important to me, and I appreciate the work you do at USDA to support business development.

- a. For many years, the Small Business Administration's guaranteed loan program has operated on the basis of zero subsidy. Zero subsidy reduces any use of budget authority and has allowed the total SBA loan program to grow serving small businesses and avoiding government costs.

- b. Do you favor moving the guaranteed loans administered by USDA to zero subsidy?

Response: USDA favors reducing costs to taxpayers to administer these important programs and still allow capital to flow into the rural economy. We are exploring many options to accomplish this, including look at ways to reduce the amount of subsidy required to deliver the program.

c. What is USDA doing to make zero subsidy a reality?

Response: Rural Development has been actively enhancing underwriting practices across the mission area through dedicated underwriting training for new and mid-career level employees. Rural Development has also engaged and partnered with the American Bankers Association, Independent Community Bankers of America, National Rural Lender's Association and the National Rural Lenders Roundtable regarding potential changes to the B&I program. These entities are keenly focused on ensuring the availability of credit to rural businesses across the country and have expressed support for the Business and Industry Guaranteed Program.

USDA is currently analyzing its guaranteed loan portfolios to assess the potential impact of a zero-subsidy rate. This includes running multiple financial models to assess the portfolio risk by sector and the impact of additional fees for program participants to get a full picture of where the risks lie in our lending portfolio and how best to mitigate those risks. This information is critical in reaching a final assessment on how to properly manage a loan portfolio to maintain a zero subsidy and minimize losses to the government.

d. And, do you expect that loan authority will be increased to reflect zero subsidy?

Response: USDA's lending levels are determined by the amount appropriated by Congress.

2. Administrator Brand, what is the current status of the OneRD Rule?

a. Where is it in the process and when do you think it will be published in the Federal Register?

Response: We are finalizing the Rule and working with the necessary internal channels to complete the clearance process. We expect to publish the Rule in the spring.

Senator John Thune

1. Ms. Brand, in your testimony, you mentioned that RD is working with the Agriculture Marketing Service on implementation of the newly created Local Agriculture Markets Program.

Can you go into greater detail about these coordination efforts? What role will RD play in implementing this program?

Response: Rural Development has been actively engaged with Agriculture Marketing Service to ensure that all programs under the Local Agriculture Markets

Program are being communicated and administered as outlined by the 2018 Farm Bill. Staff from both agencies meet regularly to discuss opportunities to streamline programs and improve customer experience. Examples of efforts to date include: sharing and integrating best practices, coordinating stakeholder engagement, and leveraging resources and capacity to expand outreach for all three programs.

Per Section 10102, Rural Business-Cooperative Service will continue to administer the Value Added Producer Grant program and the Agricultural Marketing Resource Center (AgMRC). Since enactment of the 2018 Farm Bill, RBCS has met on a regular basis with staff in Agricultural Marketing Service administering the Local Food and Farmers Market Promotion programs.

Senator Patrick Leahy

1. The 2018 Farm Bill authorized \$10 million to establish a new Rural Innovation for a Stronger Economy (RISE) grant program to help struggling rural communities that are making investments in innovation. These grants have the potential to help reinvent rural communities by transforming them into hubs for 21st century jobs. The Senate's FY20 Agriculture Appropriations bill provides \$5 million for the Rural Business Cooperative Service to implement the RISE grant program, with directive language to give the highest priority to applicants leveraging next generation gigabit broadband service to provide training in the digital skills necessary to promote entrepreneurship and startup creation.

Will the USDA commit to ensuring that these grant dollars, if enacted by Congress in FY20, will be made available to applicants who are leveraging next generation broadband, and not exclusively applicants with an established agriculture and tech sector?

Response: RISE is a new program authority for Rural Development, and we will responsibly administer any funding appropriated for the program. Rural Development will work to ensure the program is carried out as described in Section 6424 and will be committed to making awards to the most qualified applicants who can best build and support collaboration among community and regional stakeholders to connect to regional opportunities, networks, and industry clusters that demonstrate high growth potential. The ability to leverage and expand broadband service and utilization will be one of the program's evaluation criteria.

Senator Sherrod Brown

1. We are now in the second month of FY 20 and we have yet to see even the FY19 solicitation for Value Added Producer grant program. When will the FY 19 notice of funding be published? What about FY20? As you know, the 2018 Farm Bill provided the program with administrative funding in addition to grant dollars for the first time so I can't imagine the delay is a staff capacity issue.

Response: Rural Business-Cooperative Service has developed the notice of funding available (NOFA) which will include mandatory Farm Bill funds and appropriated dollars. The notice is in its final stage of clearance and we anticipate publication prior to the end of the calendar year.

Producers in my state are struggling and in such a volatile economy, a little bit of consistency and predictability can go a long way. The Value Added program has been popular in Ohio and it is important that we get it back on track. How do you propose to do this and ensure the program is administered in a consistent and predictable way moving forward?

Response: The Value Added Producer Grant program continues to be a popular program with agricultural producers and Rural Development has been actively working to implement this program in its new home under the Local Agriculture Market Program. The 2018 Farm Bill changes for the program require some regulatory updates and Rural Development will use this opportunity to get a fixed date established for accepting applications to improve program delivery and allow for a consistent application time frame each year.

2. The 2018 bill also included my Local FARMS act which increased funding for the promotion of local agriculture and rural communities through the new Local Agricultural Marketing Program (LAMP). LAMP is administered jointly by RD and AMS; how is this new collaboration going so far?

Response: Rural Development has been actively engaged with Agriculture Marketing Service to ensure that all programs under the Local Agriculture Markets Program are being communicated and administered as outlined in the 2018 Farm Bill. Staff from both agencies meet regularly to discuss opportunities to streamline programs and improve customer experience. Examples of efforts to date include: sharing and integrating best practices, coordinating stakeholder engagement, and leveraging resources and capacity to expand outreach for all three programs.

3. Recent news reports have found that communities in America's breadbasket are increasingly becoming food deserts as grocery stores in rural towns close. At the same time, CDC has reported a growing gap between the rates of preventable deaths in urban versus rural areas. The CDC recommends encouraging diet and exercise, among other things, as a solution to preventable deaths, yet 5 million people in rural areas need to drive at least 10 miles to access grocery stores with fresh produce. How does USDA plan to prevent more grocery store closures and increase access to fresh and healthy foods for rural communities? How will USDA be a partner with communities and states to ensure they have access to nutritious foods and other brick and mortar food stores that in many small towns serve as far more than just a spot to buy groceries?

Response: The Business and Industry Guaranteed Loan Program has a local foods component where 5 percent of the funds available for the fiscal year are set aside for

businesses that process, distribute, store, and/or market locally or regionally produced agricultural food products. This program is available to businesses in urban and rural areas. Funding priority is given to projects that provide a benefit to underserved communities, which is a community that has limited access to affordable, healthy foods in grocery retail stores or farmer to consumer direct markets where there is a high rate of hunger, food insecurity, or a high poverty rate.

Rural Development programs, particularly programs administered by Rural Business-Cooperative Service have a strong track record of supporting local and regional food systems. An array of RBCS programs continue to support farmers markets, value added products, food aggregation and distribution centers, retail food outlets, as well as supporting energy efficiency and energy improvements for agricultural producers and rural small businesses.

Additionally, Rural Development administers the Healthy Food Financing initiative which aims to improve access to affordable, healthy foods in urban and rural areas, particularly areas composed predominantly of lower income neighborhoods and communities. Rural Development partners with the National Fund Manager to administer funding appropriated under this authority. The initial round of funding was successful and resulted in \$1.8 million in grant awards which will be used to implement a variety of innovative strategies to bring healthy food access to both rural communities and urban neighborhoods.

Senator Amy Klobuchar

1. I worked to include a bipartisan amendment to the 2018 Farm Bill that invested in Energy Title programs like the Renewable Energy for America Program (REAP), which supports renewable energy and energy efficiency on farms and rural small businesses.
2. Can you describe the steps the Department of Agriculture is taking to educate farmers and rural small businesses about the availability of funding and opportunities for energy savings from REAP?

Response: Rural Development has 47 State Offices as well as area offices which provide stakeholder engagement, outreach and servicing for energy and business programs. In addition, we have National Office Staff who conduct a variety of outreach and stakeholder engagement across National platforms such as conferences, webinars, and events with trade groups for ag producers, small business, and lending partners. In addition, we are leveraging our MOU with the Small Business Administration to expand our ability to educate their partners and stakeholders on REAP and other RBCS funding programs. Further, the agency's lender advocates have been helpful in providing outreach, technical and education support for the program.

Senator Robert P. Casey, Jr.

1. The Healthy Food Financing Initiative (HFFI) is a model solution for access to fresh food outlets, and we need to continue to do more to ensure access to healthy food, especially in rural, underserved areas. HFFI was modeled off of the very successful program in Pennsylvania, providing support and investment for food merchants working to address the issue of food deserts. This enables communities across the country to improve healthy food access, foster local economies, and enhance public health. While RBS has a number of financing programs, HFFI has the right combination to improve access, create jobs, revitalizing communities, generating tax revenue, improve access to healthy food, and establish new opportunities to support the growth and expansion of rural food economies in the region. HFFI recently launched its inaugural round of grants, which were for 2018. There were 240 applications were received from over 46 states, territories and DC, a total of \$42.5 million in grant award requested for a program of \$2m. I am pleased that this includes funding for the Erie Downtown Development Corporation in Pennsylvania. I look forward to seeing further HFFI investments to revitalize communities in Pennsylvania by developing and renovating stores, generating local tax revenue, creating and retaining jobs and bringing development to low-income neighborhoods.

- a. How are you coordinating with other programs to leverage this great program model, but with such limited funding?

Response: Rural Development administers the Healthy Food Financing initiative and partners with the National Fund Manager to administer funding appropriated under this authority. The initial round of funding was successful and resulted in \$1.8 million in grant awards which will be used to implement a variety of innovative strategies to bring healthy food access to both rural communities and urban neighborhoods.

The Business and Industry Guaranteed Loan Program has a local foods component where 5 percent of the funds available for the fiscal year are set aside for businesses that process, distribute, store, and/or market locally or regionally produced agricultural food products, which is available to businesses in urban areas as well as rural areas. Funding priority is given to projects that provide a benefit to underserved communities, which is a community that has limited access to affordable, healthy foods in grocery retail stores or farmer to consumer direct markets where there is a high rate of hunger or food insecurity or a high poverty rate.

Rural Development programs, particularly programs administered by Rural Business-Cooperative Service have a strong track record of supporting local and regional food system work. An array of RBCS programs continue to support farmers markets, value added products, food aggregation and distribution centers, retail food outlets, as well as supporting energy efficiency and energy improvements for agricultural producers and rural small businesses.

- b. Since HFFI really only launched in 2019, how can USDA ensure that staff throughout USDA, including field offices, are aware of the program and how it works?

Response: Rural Business-Cooperative Service is creating a program webpage so that internal and external stakeholders can access relevant information on HFFI. This page will also link back to the National Fund Manager's website with the most current information available. Monthly meetings are held with the field to update them on status of funded programs. This is helpful as field offices are responsible for outreach of programs. RBCS will be working with the Agriculture Marketing Service to get HFFI included on the USDA informational sheet explaining what and where USDA programs can help in the local food supply chain.

2. The Value Added Producer Grants Program (VAPG) has a long track record of success. It was created in the 2000s at a time of low commodity prices, similar to today, to help producers diversify their operations, capture more of the consumer dollar, and become less dependent on the volatility of commodity markets. Pennsylvania producers have received nearly \$7 million in VAPG funding, and it has been instrumental in creating more jobs and helping small businesses survive. VAPG has been an especially important tool for helping dairy producers survive in what have been incredibly tough times for the dairy industry

- a. While I am glad the farm bill made these important improvements, I am concerned that we are now over a month into FY20 and the first round of VAPG funding under the new farm bill (FY19) hasn't even been announced. When can we expect to see the VAPG funding notice published? And will it be combining FY19 and FY20?

Response: Rural Business-Cooperative Service has developed the Notice of Funding Available which will include mandatory Farm Bill funds and appropriated dollars. The notice is in its final stage of clearance and we anticipate publication prior to the end of this calendar year. The notice does include FY2020 funds which may be used if enough, quality applications are received.

- b. In LAMP we also included a new authority within VAPG to allow some of the funding to be used to help shouldering the burden producers are facing when it comes to compliance with the Food Safety Modernization Act. My understanding is that unlike the rest of VAPG in LAMP which is self-implemented, that USDA needs to conduct a rulemaking for that. Can you please tell when we can expect that rulemaking and how do you plan to provide farmers an opportunity to weigh on the rule to make sure it is done right?

Response: Correct, the implementation of the food safety component will require regulatory updates. This authority is new to the VAPG program and

an expansion of the eligible project purposes. A stakeholder forum will be held before publication of the Rule to give producers an opportunity to provide feedback on proposed changes made to the regulation. The agency anticipates this provision will be implemented by FY2021.

3. I'm increasingly aware of the important role of civic-sector intermediary organizations that work across a region in advancing smart, strategic and locally tuned approaches to community and economic development. For example, in my state, Pennsylvania Wilds is a non-profit organization that is working across a region bigger than Massachusetts with an emphasis on building a durable local and regional economy that works for all residents.

a. How does USDA Rural Development currently think about, work with and provide funding to support the ongoing programming of these types of organizations, which provide critical capacity and often act as a catalyst for innovation in rural regions?

Response: Rural Development partners with many community development entities, providing funds for their administrative expenses, outreach and training efforts, plus loans and grants to assist in the development of local small businesses. Additionally, the Rural Development Innovation Center leads and coordinates partnership activities with organizations like nonprofit intermediaries to support community and economic development efforts. In 2018, the Innovation Center launched the Rural Economic Development Innovation (REDI) initiative to provide regional economic development planning assistance to thirty-nine rural communities and regions, including Tioga County, Pennsylvania. Rural Development also works directly with and funds some regional partners, such as the Appalachian Regional Commission and Delta Regional Authority, to enhance their service to local businesses. Rural Development State Directors also identify potential program opportunities for early inclusion of Rural Development programs in regional efforts, including the Appalachia Storage and Trading HUB for ethane production, that will provide substantial economic implications for that area.

b. Do you have the programs and tools you need to do this or is this an area where we should be having a deeper conversation with you to ensure that USDA RD has the programs and tools needed to meet 21st Century rural challenges?

Response: Response: In 2018, Rural Development was able to set aside funding for the purpose of supporting regional economic development planning assistance to help rural communities meet 21st Century rural challenges. In the 2018 Farm Bill, we were given authority to formalize that effort through the development of Strategic Community Investment Plans. We look forward to fully implementing that provision when funded. The expansion of rural broadband and the financial health of rural hospitals remain an issue of critical importance to the sustainability of our rural communities. There are sufficient RD programs in place to work with these projects, but there are challenges

related to the regulatory requirements of other government entities that can often cause uncertainty and project delays.

Senate Committee on Agriculture, Nutrition, & Forestry
Hearing on Implementing the 2018 Farm Bill: Rural Development and Energy Programs
November 7, 2019
Questions for the Record
Administrator Bruce Lammers

Senator Debbie Stabenow

1. The 2018 Farm Bill included provisions to ensure that the Community Facilities program gives priority to applicants seeking to develop facilities that will prevent substance abuse, treat individuals that are recovering, and employ staff that have appropriate expertise and training to accomplish these goals. During your testimony, you stated that in Fiscal Year 2019, the Community Facilities program obligated \$43 million to 47 projects that will develop facilities targeted at combatting addiction.

Response: As of September 30, 2019, USDA Rural Development partnered with rural communities to support opioid prevention, treatment, and recovery opportunities by investing \$7,469,290 in 44 projects in 15 states to benefit 305,321 rural residents through the Community Facilities Program.

The previous obligation report that was included in the written testimony included the entire funding for Fayette County-OH (\$20M) and Muskingum Valley Health Centers-OH (\$18M).

However, it is important to note that these numbers account for total project cost and that only a portion of these projects, rather than 100%, will directly support opioid prevention, treatment, and recovery. Therefore, this reduces the obligation amount to \$1 million for Fayette County-OH and \$900,000 for Muskingum Valley Health Centers-OH.

a. Were there high-quality projects targeted at opioid addiction that were not funded? If so, were projects not funded because demand outpaced funds available?

Response: All projects targeted for opioid addiction were funded.

b. How is your agency certifying that applicants receiving priority in the Community Facilities program have trained staff?

Response: The Community Facilities program will include language in its regulations that addresses the requirement for trained staff. The regulations will stipulate that in order for an applicant to receive priority for this purpose, it must demonstrate that it will employ staff that have the appropriate expertise and training in how to identify and treat individuals affected by a substance abuse emergency.

2. Please provide the Committee with a list of projects made for FY2018 and FY2019 within the Community Facilities loan and grant program. Please include the program, project amount, date awarded, awarded entity, location, and detailed project description.

Response: See attached FY 2018 and FY 2019 CF obligation spreadsheets.

3. How many Community Facilities loan and grant funded projects utilized funding for jail construction or renovation? Please provide amount, awarded entity, and location.

Response:

Program	Award Amount	Date Awarded	Award Entity	Facility City	State
Direct	\$2,677,000	7/26/2018	Lincoln, Parish of	Ruston	LA
Grant	\$25,000	7/31/2019	Crisp County Board of Commissioners	Cordele	GA
Grant	\$52,200	8/22/2018	Mifflin County	Lewistown	PA
Direct	\$7,506,000	9/12/2019	Clay County	Celina	TN

4. How many Community Facilities loan and grant funded projects utilized funding to expand existing jail capacity? Please provide amount, awarded entity, and location.

Response: Applications are reviewed and awarded on a total project level.

5. Please provide the Committee with a list of all projects made within Rural Housing Services for FY 2019. Please include the program, project amount, awarded entity, location, date awarded, and detailed project description.

Response: See attached documents.

Senator Chuck Grassley

1. Can you explain USDA's Section 502 Direct Loan Program's process for managing families and homes in rural areas who are noncompliant, delinquent, and/or default?

Response: Rural Development works with those struggling to make monthly house payments through offering assistance identified in the 7 CFR 3550. These options include payment moratoriums, payment assistance, re-amortization and delinquency workout agreements. Rural Development also offers homeowners loss mitigation assistance if the individual can no longer afford the home. These would include a short sale of the home where the Agency will accept less than the full payoff amount or a deed in lieu which allows the individual to sign over the deed to

USDA, and the Agency looks to place another qualified applicant in the home or sells it on the open market.

After all these options are exhausted to assist the homeowner, the Agency pursues foreclosure action to resolve the default. This begins with the Agency accelerating the homeowner's debt which provides appeals rights and 30 days to cure the deficiency. If a homeowner doesn't cure the default, the Agency will follow Federal and State law to complete the foreclosure action.

Senator John Thune

1. Mr. Lammers, as you know, we have some very hard to serve rural areas in South Dakota on our Indian reservations. Unfortunately, Section 502 direct loans, which help low-income families pursue home ownership, have not been utilized by Native American families on tribal lands.

a. Does RD have plans to build upon the success of this 502 relending pilot?

Response: Two Native community development financial institutions (CDFIs) are successfully relending to Native families on trust lands. The loans to the CDFIs closed July 2019, and to date eight loans have been extended to Native families. Both CDFIs still have available funds to be loaned to other Native families. RD will conduct an assessment once all loan funds are drawn down to determine the feasibility of building upon the 502 relending pilot.

b. Are there other ways we can increase Native homeownership through public/private collaborative efforts that are similar to this one between USDA and the Native CDFIs?

Response: Yes. Organizations such as the Native CDFIs may become a RD-Certified Loan Application Packager or Intermediary. The purpose of the certified loan packaging process is to promote the 502 Direct program in underserved areas, counsel potential applicants on how to improve their ability to qualify for a home, and ensure that applications are complete prior to submitting them to RD. RD-Certified Loan Application Packagers and Intermediaries receive a fee up to \$1,750 for assisting the applicants. Given that these organizations have close ties to the Native communities, becoming an Intermediary or Application Packager could result in more homeownership opportunities on Native lands.

Senator Sherrod Brown

1. It is my understanding that USDA subsidizes about 7,000 rental units in Ohio. Yet, as the housing stock in parts of the state ages and communities change over time, I am worried

about the lack of quality affordable housing units in rural Ohio. What steps does USDA have in place to ensure that the supply of housing is keeping up with demand in Ohio and that we will not lose units to expiring affordability contracts?

Response: Rural Housing Services preserves Section 515 properties using the authority and appropriations provided under the Multifamily Preservation and Revitalization (MPR) Program. During Fiscal Year 2019, 17 Section 515 properties in Ohio were preserved using this program with \$13,945,261 in MPR resources.

In addition, Rural Housing Service actively services all Section 515 properties to educate owners about the resources available under the MPR program and other Rural Housing Program tools available for owners to remain in the Section 515 program beyond their natural mortgage maturity dates. Rural Housing Service also provides Technical Assistance Grant funds to four national non-profit groups to market the MPR program and other preservation tools, and to assist owners interested in utilizing these resources for application preparation.

Senator Robert P. Casey, Jr.

1. The Community Facilities loan program is especially important in Pennsylvania, providing long-term low-interest financing in rural areas to support the construction, expansion, or improvement of critical facilities. These loans support essential facilities in rural areas, and are critical for eligible borrowers who are unable to obtain commercial financing at reasonable rates. I have heard from Pennsylvanians that these loans are essential in providing support for jobs and economic development in rural communities. In many rural areas, colleges may be the backbone of those small communities – providing jobs, economic development, and opportunities for growth and education.

a. Can you speak to the value that you have seen Community Facilities loans provide for institutions of high education?

Response: At USDA, we recognize that an educated and skilled workforce is essential to attracting new business, quality jobs and promoting economic prosperity. Rural higher educational institutions are often the lifeblood of rural communities and a primary employer. They help drive economic opportunity and engagement, providing access to higher education and serving as hubs of information, cultural and community life. In addition, they offer an opportunity for economic prosperity by spurring workforce development, employment, and improving social outcomes such as health and family stability.

b. Will USDA continue to provide strong support for these institutions through the Community Facilities program?

Response: Yes. USDA, through its Community Facilities Programs, remains committed to strengthening investment in higher educational infrastructure for financially viable and sustainable projects.

Senate Committee on Agriculture, Nutrition, & Forestry
Hearing on Implementing the 2018 Farm Bill: Rural Development and Energy Programs
November 7, 2019
Questions for the Record
Administrator Chad Rupe

Senator Debbie Stabenow

1. The 2018 Farm Bill made a number of changes to the Farm Bill Rural Broadband Program, including adding a grant component to the program and raising authorized funding from \$25 million per year to \$350 million per year.

- a. Given the absence of an Under Secretary for Rural Development, who is responsible for ensuring the Farm Bill Broadband Program isn't underfunded in the President's next budget request to Congress? Will you advocate for the Farm Bill Broadband Program in the budget process?

Response: Secretary Perdue has made investing in rural broadband a priority for USDA and more specifically for Rural Development. He has been a strong advocate for our broadband programs and will continue to be an advocate because rural communities need robust, modern infrastructure to thrive, and that includes access to broadband e-connectivity.

2. During the Rural Development hearing on November 7th, you confirmed the closure of 11 rural development offices across the country.

- a. Please provide a full list of all planned rural development office closures and timeline for when these offices are slated for closure.

Response: The proposed office closures are the following; RD Satellite Office at 89 Alder Street, Central Point, OR. RD Satellite Office at 3705 Miller Parkway, Manhattan, KS. RD Satellite Office at 2106 East Spruce, Garden City, KS. RD Field Office at 111 Sheckler Road, Fallon, NV. RD Satellite Office at 795 S. Haskett, Mountain Home, ID. RD Sub-Area Office at 51 Cheney Road, Woodstown, NJ. RD Local Office at 31 Wichita Drive, Nicholasville, KY. RD Local Office at 500 W. 12th Street, Suite 102, Vancouver, WA. RD Service Center at 1408 21st Ave. NW, Austin, MN.

Office closures will proceed following conclusion of the ongoing congressional notification process.

- b. Please provide an explanation for the closure of each of these offices identified in 2(a).

Response: The Oregon office has been vacant since 2016 and has historically only housed one employee. The Manhattan, Kansas office has been vacant since 2015 and the Garden City, Kansas office has been vacant since

2016. The Nevada office has been vacant since 2017, the Idaho office has been vacant since 2016, and the New Jersey office is vacant. The Kentucky office is located 12 miles away from the State office, which has the space to house the 3 existing employees who will be transferred from the Nicholasville office. The Washington office houses two employees and one of those employees is planning on retiring at the end of the year. The remaining employee will establish a home office. The Minnesota office houses two employees who are in frequent travel status providing outreach or loan/grant servicing to customers across the state and will be able to utilize the Faribault area office when necessary.

- c. Please explain how USDA plans to serve constituents in communities in which USDA plans to close its rural development office?

Response: Rural Development continues to have multiple offices in the states where the proposed closures are occurring. Additionally, our employees in the other field offices can identify a wide range of community and economic development resources for elected officials, business owners, families, farmers and ranchers, schools, nonprofits, cooperatives, and tribes. Customer service is not simply a matter of having an employee in a certain office, but about having a strong employee with strong customer service skills in the optimal location who is willing to engage with local leaders and communities to ensure that we are efficiently and effectively delivering our programs.

- d. Please provide the number of full-time employees at each rural development office that is slated for closure. How does USDA plan to utilize these employees after their office closure?

Response: There are three full-time employees at the Kentucky office, two at the Washington office, and two at the Minnesota office. The Kentucky office employees are being transferred to the State office which is 12 miles away. One of the Washington employees is retiring at the end of the year and the other is establishing a home office. The Minnesota employees are in frequent travel status and will be able to utilize the nearby Faribault office when needed. All employees are remaining in their existing positions within Rural Development.

3. Section 6407 of the 2018 Farm Bill included language that prioritized projects dealing with emerging contaminants in their communities. Please provide the Committee with a list of all grants made under the Emergency Community and Water Assistance Grants (ECWAG) Program for FY 2019. Please include the program, project amount, date awarded, awarded entity, location, and detailed project description. Additionally, please clearly identify which projects were targeted for emerging contaminant issues.

a. Section 6407 of the 2018 Farm Bill also tasked USDA to co-lead an interagency task force on rural water quality. Please provide an update on this interagency effort and a status on the report due to Congress one year after passage.

Response: Attached is a list of projects obligated under the Rural Utilities Service's ECWAG Program in FY 2019. Twenty projects were associated with addressing a health or sanitation risk, which may include emerging contaminant issues and/or system repairs to meet new water quality standards. For example, two projects, North Walpole (NH) and Paden City (WV), addressed per- and polyfluoroalkyl substances (PFAS) issues.

The USDA Rural Utilities Service is managing the Rural Water Quality Task Force working collaboratively with Federal Agency partners, like the U.S. Army Corps of Engineers, and the U.S. Geological survey.

The Task Force is also collaborating with stakeholder organizations that include scientists, technical assistance and training providers, policy makers, researchers, advocates and other experts. The Rural Water Quality Task Force met internally and with stakeholders to address the declarations in the report mandate. The Task Force has examined and identified issues relating to water contamination in rural communities, especially those near military installations in the U.S. – and how these issues are addressed internally and across Federal Agencies.

Using this information, the Task Force is developing recommendations for how Federal, State and local Government Agencies can work together in an effective manner to address these issues. The report will provide a narrative to introduce important components of the issues, and Federal and stakeholder approaches to improving them. The report will also provide recommendations to improve interagency coordination and responsiveness to benefit rural communities. The report is being finalized in preparation for submission to Congress.

4. The 2018 Farm Bill reformed the Rural Utilities Service (RUS) Cushion of Credit program by ceasing new deposits and stepping down the interest rate paid on existing deposits from the current fixed 5 percent statutory rate to a more market-oriented rate tied to the interest rate paid on US Treasury securities beginning in FY2022. The bill authorized current depositors to withdraw deposits to prepay RUS loans without a prepayment penalty through FY 2020. Please provide the Committee with an updated data of Cushion of Credit activity since passage of the 2018 Farm Bill. Please be sure to include information on all prepayment activities and if any borrowers have fully bought out of the RUS program.

a. How many coops have taken advantage of the opportunity to pre-pay? How long has it taken to process requests to buy out of the program?

Response: The average length to complete a prepayment from initial scheduling to system update is 10 business days overall.

For FY 2019: 85 RUS Borrowers were processed for application of Cushion of Credit (COC) to prepay loan debt:

COC used for Principal:\$2,206,446,870.44

COC used for Interest / Fees:\$ 9,903,235.46

TOTAL COC used:\$2,216,350,105.90

FFB Premiums Waived:\$ 502,303,310.77

Telephone borrowers: 2 (0 were complete payoffs)

Electric borrowers: 85 (6 were complete payoffs)

b. What has been the overall impact to the electric and telecom programs?

Response: The Rural Utilities Service, the Rural Development Chief Financial Officer, the Federal Financing Bank and the Department of Treasury are in regular dialogue to carefully implement the Cushion of Credit changes resulting from the 2018 Farm Bill. We have agreed to work together to ensure that the customer experience is a positive one, even as USDA and the Department of Treasury and our respective Offices of General Counsel work to resolve complicated budgetary, legal and accounting issues related to those changes.

The effect on the electric and telecom programs have primarily been “back office” issues between the agencies, and it is the full intention of RUS to honor borrower requests as required by the new law.

5. Please provide the Committee with a list of all projects made within RUS programs for FY 2019. Please include the program, project amount, awarded entity, location, date awarded, and detailed project description.

Response: Electric, Telecom, and WEP lists are attached. However, it is important to note that WEP offers financing through direct and guaranteed loans, and grants. Most obligations included a mixture of program funds, particularly direct loan and grant monies.

Senator John Hoeven

1. According to the Federal Communications Commission’s (FCC) 2019 Broadband Deployment Report, nearly 26 percent of Americans in rural areas and 32 percent of individuals on tribal lands lack access to quality broadband service, compared to only 1.7 percent of Americans in urban and suburban areas. This means that over 20 million Americans fall on the wrong side of the digital divide.

North Dakotans benefit from the great work of our many telecommunications cooperatives and companies that have utilized both USDA and FCC dollars to build out and maintain impressive fiber-to-the-home and cable networks in rural areas where it is much needed. High-quality broadband services are essential to almost every business and household.

- a. Can you give us an update on provisions included in the Farm Bill related to the Rural Broadband Program?

Response: We have drafted an updated Rule for our Rural Broadband Program to implement the provisions from the 2018 Farm Bill and expect to publish that updated Rule early this year.

- b. What efforts has USDA taken to ensure coordination between FCC and the National Telecommunications and Information Administration (NTIA) when it comes to improving broadband maps to accurately reflect national broadband availability?

Response: Rural Development meets regularly with both the FCC and NTIA to discuss ways to improve the mapping process and share information regarding programs and the service areas of funded projects.

- c. In your opinion, what does the expansion of high-speed internet access to rural areas look like over the next 5-10 years?

Response: Over the next 5 – 10 years rural areas will need both a physical broadband connection to the premise as well as mobile broadband access. This will take strong partnerships between the private sector, state and local governments as well as government agencies. The continuation of broadband programs at USDA and FCC are important components in ensuring these needs in rural America are met.

2. I'm encouraged to see USDA's recent investment announcements through the Reconnect Program. This program will help boost access to cost-effective broadband services in rural America, which is essential to modern agriculture and every-day life. However, I've heard there are certain program requirements specific to the application process that have hindered some providers' ability to participate.

- a. What has the Rural Utilities Service (RUS) done to make the application process for the ReConnect program more efficient and user-friendly?

Response: A new online application system was developed that walks an applicant through the application process. The system identifies all the necessary pieces for submitting a complete application. A very detailed application guide has also been developed.

In addition, for the first ReConnect Funding Opportunity Announcement, RUS held a number of workshops around the country as well as numerous webinars explaining the program requirements. A help desk was also available to field applicants' questions.

- b. Will RUS consider including partnerships as an eligible entity?

Response: Legal partnerships such as an LLP are too easily dissolved and present security issues as well as viability concerns. Co-applicants would be a better way to accomplish partnerships and RUS is considering this for possible future rounds of ReConnect. RUS does encourage partnerships between entities to get broadband service delivered to rural area. Usually, one entity is the applicant and establishes arrangements through legally binding agreements with the other involved entities.

Senator John Thune

1. In your testimony, you state that the 2018 farm bill sets forth plans for the expansion of high-speed internet access to rural, unserved areas by providing \$350 million in broadband-related funding.

In addition to that funding, the ReConnect program under RUS is announcing new awards every week.

a. Can you go into specifics about how RUS determines whether any particular location is deemed as served or unserved with broadband?

Response: RUS has developed a process where desktop research is completed prior to on-site visits to make a determination if service is available. Field reviewers then use this information to identify service providers in the proposed service area, hold interviews with residents, and contact the local providers. Local providers can also submit a challenge through the Public Notice Filing/Public Notice Response process that has been developed. When an application is submitted, RUS posts the proposed service area so incumbent providers can submit a challenge to the “service not being available.” Please see the attached Service Area Validation Manual which provides a significant amount of detail on this process.

b. Does RUS account for broadband deployments that are underway and will soon result in an area being served with broadband?

Response: Unless the service is already being provided, RUS does not account for proposed construction. Without service being available to residents, it is difficult to say what a provider might be looking to make available, when proposed construction might commence, or when the system would be completed.

2. Earlier this year, I introduced the Broadband DATA Act with Commerce Chairman Wicker to address challenges with the current broadband availability maps at the FCC.

What level of coordination does RUS have with the FCC on its broadband availability maps to ensure resources are going to truly unserved areas?

Response: Rural Development and the FCC meet regularly to discuss ways to improve the broadband availability maps. RUS has provided the FCC our Service Area Validation manual that describes the process for determining if service is available in an area.

RUS also uses information provided by the FCC to help establish parameters for funding programs. For example, under the first Funding Opportunity Announcement of the ReConnect Program, USDA funding was only available in the FCC identified Connect America Fund II auction areas as loan funds to the auction winners.

Senator Patrick Leahy

1. In the FY18 Consolidated Appropriations Act, Congress provided \$600 million to establish the Rural eConnectivity Pilot Program (ReConnect Program). The funding was to be used on an expedited basis. However, only a small percentage of the available funds have been obligated, while applications for funding more than exceeded the amount available. Under the grant program, entities are allowed to challenge an applicant seeking ReConnect funding, if that applicant is seeking to serve an area with 10/1 Mbps or greater broadband.

Broadband access remains one of the most significant challenges to job growth and business development in Vermont, and the state hopes to compete for funding in the future.

a. How many applications for ReConnect Grants were received by the Department?

Response: The ReConnect Program Funding Opportunity Announcement offered three products to expand and improve broadband service in rural areas: loans, combination loans and grants, and grants. USDA received a total of 146 application. There were 15 applications for \$258 million for the loan product, 53 applications for \$635 million for the combination loan and grant product, and 78 applications for \$522 million for the grant product.

b. How many applicants used the challenge process for current broadband speeds to ensure they were eligible?

Response: Applicants did not have a choice on whether or not to participate in the challenge process. It is a program requirement that applicant's proposed service areas are posted for incumbent providers to respond to if the area is already receiving sufficient broadband service to prevent overbuild.

c. If entities applied and challenged, how many of those applicants have been awarded funding?

Response: USDA has not completed the awarding of funds under the first ReConnect Funding Opportunity Announcement. USDA has received the following Public Notice Responses (challenges);

Total # of Public Notice Responses submitted: 550

Total # of applications with Public Notice Responses: 89

d. How will USDA RUS use the information gathered from this application process to inform the next NOFA?

Response: RUS received numerous comments and recommendations detailing proposed modifications to the program requirements, scoring criteria, and application system used in the first Funding Opportunity Announcement for the ReConnect Program. RUS will use all the information available from the first round when making adjustments to the requirements and scoring criteria for the next round of ReConnect.

Senator Sherrod Brown

1. Administrator Rupe, as you know, rural America still has serious drinking and wastewater infrastructure issues. In parts of Appalachian Ohio, there are still areas that lack access to running water. In Athens County, many who lack water or are unable to pay their water bills rely on a spring-fed trough in the village of Buchtlel for clean water. So I was disappointed that the FY 20 budget proposed reducing funding for the wastewater program.

When the budget was introduced our Chairman—rightly—said it was dead on arrival. That said, I am disappointed that USDA proposed to cut funding to a program that is essential to rural Ohioans. In light of the Administration’s disinterest in supporting these communities, how does USDA propose to address the more than \$2b wastewater backlog across the country?

Response: All Water and Environmental Programs’ prioritize projects that provide loan and grant funds for water and waste projects serving the most financially needy communities. The Rural Utilities Service remains committed to using the funds appropriated by Congress to provide grants and low-interest loans to rural America to help address various water, wastewater, and solid waste infrastructure needs. Additionally, the Rural Utilities Service routinely collaborates with an expansive network of other federal agencies and stakeholders to ensure rural areas have resources to provide clean, safe water and waste services. In FY 2019, the Rural Utilities Service invested nearly \$1.8 billion in rural communities, serving 2.3 million rural residents and 372 of the 500 (74%) projects obligated addressed a health/sanitation risk.

2. In September, the State of Ohio released a report that found 300,000 households in the State lack access to high-speed broadband. And even that number doesn’t paint the full picture—I’ve heard from many in rural Ohio that the “high speed” internet they do have is anything but. Many communities meet the criteria to apply for ReConnect funding opportunities, but may not have the staff or resources to put together an application. What is USDA doing to make sure that these communities aren’t shut out of this program?

Response: We have developed an online application system to assist applicants by walking them through the necessary components to complete an application. We have also held workshops and webinars. Additionally, our field staff are available to help assist applicants and would be happy to meet with individuals/groups or participate in local community events or roundtables to help educate residents about the program and application process.

3. The Committee heard testimony from Keith Hayward about the difficulties rural electric cooperatives face in applying for ReConnect loans and grants. He outlined how labor-intensive it is to verify that at least 90% of the population in their service area lacks 10:1 mbps service. It's my understanding that USDA received 131 applications for the first two rounds of ReConnect grant and loan/grant combination opportunities, adding up to amounts that far exceed the \$400 million available for those rounds. How many of these applications have been disqualified for not meeting the criteria described by Mr. Hayward? How is USDA verifying how many residents have sufficient service?

Response: USDA is still completing the service area validation reviews to determine if sufficient broadband service is available or not. The present numbers are:

Total # of Public Notice Responses submitted: 550

Total # of applications with Public Notice Responses: 89

- **Grants: 46 applications – 28 applications had service found**
- **Combos: 34 applications – 13 applications had service found**
- **Loans: 9 applications – 5 applications had service found**

RUS has developed a process where desktop research is completed prior to on-site visits to make a determination if service is available. Field reviewers then use this information to identify service providers in the proposed service area, hold interviews with residents and contact the local providers. Local providers can also submit a challenge through the Public Notice Filing/ Public Notice Response process that has been developed. When an application is submitted, RUS posts the proposed service area so incumbent providers can submit a challenge to the "service not being available." Please see the attached Service Area Validation Manual which provides a significant amount of detail on this process.

Senator Michael Bennet

1. Between 2017 and 2019, USDA awarded over \$1 billion in RUS Telecom Program loans and grants. Over this period, Colorado applicants received around \$1.4 million, less than 0.1% of loans and grants available. By contrast, Kentucky, which has a smaller population, received nearly \$65 million, nearly 45 times the amount awarded to applicants in Colorado.

- a. How does the RUS Telecom program account for the significant state and regional discrepancy in successful loan and grant applications?

Response: RUS Telecom Programs are open to most entities that are engaged in providing broadband service. Typical factors that impact the number of broadband loan and grant applications that RUS receives from a state are: the types of entities providing broadband service in rural areas, the level of broadband service already available in rural areas, and the population and population density of rural communities in that state.

b. What in the application and decision process might account for western states receiving fewer grants and loans, even though the states can have larger populations or more rural areas?

Response: In our Western states we have seen unique permitting challenges due to federal land management agencies having different criteria, priorities, and decision-making strategies for approval of the required permits. This can sometimes cause delays because in order for applicants to gain obligation and approval of funding for anything other than ReConnect and the Farm Bill Broadband program, which were given new authorities under the 2018 Farm Bill, the permits must be issued. We have noticed that many industry leaders and providers have focused their strategies on areas where they can have an impact without the burden of the federal land management permitting process.

2. For rural communities, installing broadband can be a cost prohibitive investment for local governments, while low population densities reduce commercial viability for private companies. Community Connect grants help fill this void and provide assistance to rural entities to expand broadband access. As part of the application eligibility, the proposed service areas in Community Connect grant applications are subject to a verification process by a USDA field representative to determine if qualified broadband service is available in the proposed funding area.

a. Does USDA consult with state broadband offices or public utility commissions to determine if an application's proposed service areas are unserved? If no – why not?

Response: USDA attempts to use all resources that are available to help make this determination. We have found that the best way to make a final determination is to send staff out to the proposed service area and make an on-site review of service availability.

b. How does the USDA intend to improve their consultation process to incorporate state and local feedback into their determinations?

Response: For the ReConnect Program, USDA has the state broadband office provide a description of the broadband projects that the state has funded in an applicant's proposed service area. As we work with the state broadband offices, we are seeking additional ways to incorporate state feedback without delaying the funding process.

3. The ReConnect Loan and Grant Program is a promising option for rural communities looking to expand their broadband connectivity. However, many of Colorado applicants have expressed concern that USDA's definition for "rural" is too restrictive. As "Rurality of the Proposed Funded Service Area" is the most heavily weighted section of the application, this definition significantly disadvantages rural communities with even slightly higher population densities.

a. What is USDA's justification for this definition of "rural?"

Response: The current definition of rural for the ReConnect program was established by Congress.

b. On the application, why are points in the "Rurality of Proposed Funded Service Area" category awarded on an "all or nothing" basis?

Response: We elected to see how the current rurality scoring would work before considering other options. At this time, we have received numerous comments and recommendations on this requirement, and we will change this section for the next Funding Opportunity Announcement to allow for more flexibility for areas with higher population densities.

c. Is USDA open the amending the definition to be more inclusive of large, rural, western states?

Response: The current definition of rural was established by Congress and any changes would need to be made by statute.

Senator Robert P. Casey, Jr.

1. Can you provide any further updates on implementation of the Rural Broadband Program and the ReConnect Program and sat RUS, including any challenges that you've observed co-ops running into to maintain their tax exempt status?

Response: With the change in the tax laws making grant funds count as revenue, certain entities such as electric coops are concerned with losing their tax-exempt status. This can have an impact on an applicant's decision whether to apply for RUS funds or not. In some cases, the loss of the tax-exempt status could cost more than the amount of the award.

2. Many communities across the country, including in Pennsylvania, are facing serious water contamination issues from PFAS chemicals. I am glad that the farm bill included provisions to Rural Water and Wastewater Technical Assistance and Training Programs to clarify that these funds can be used to address the contamination of drinking water and surface water supplies.

a. Can you provide an update on USDA's efforts to ensure projects rural water and wastewater projects are supporting these efforts?

Response: All Water and Environmental Programs' projects are prioritized to provide loan and grant funds for water and waste projects serving the most financially needy communities. In addition, projects financed to alleviate documented health and sanitary issues are given additional priority points. The Rural Utilities Service cooperates fully with state and local agencies, as well as stakeholders, in making loans and grants to maximize financing and technical assistance to rural communities. For example, the Rural Utilities Service and Rural Development Pennsylvania Office invested \$49.3 million in loans and \$13.7 million in grants in rural Pennsylvania communities in FY 2019. These projects included system/plant upgrades for South Wayne County (\$6.2 million loan, \$4.2 million grant), Barkeysville Municipal Authority (\$2.0 million loan, \$2.1 million grant) and West Sunbury Borough Municipal Authority (\$256,000 loan, \$369,000 grant),

All facilities financed by the Rural Utilities Service are designed, installed and operated in accordance with applicable laws that include, but are not limited to, the Safe Drinking Water Act, Clean Water Act and the Resource Conservation and Recovery Act. In FY 2019, 74% of water and waste projects addressed a health or sanitation issue. This includes projects under the Emergency Community Water Assistance Grant Program, specifically designed to address emergencies and disasters that threaten potable drinking water supplies.

The Rural Utilities Service has an extensive water and waste technical assistance and training grant program that cultivates partnerships in multiple aspects of water quality. The Technical Assistance and Training Program helps qualified, private nonprofits provide technical assistance and training to identify and evaluate solutions to water and waste concerns. It also helps applicants prepare applications for water and waste disposal loans/grants, and helps associations improve the operation and maintenance of water and waste facilities in eligible rural areas. Grantees like the American Water Works Association, National Rural Water Association, Rural Community Assistance Partnership and Community Engineering Corps leverage their local, state and national networks to serve as extensions of the USDA's support to rural systems.

In addition, the Rural Utilities Service's Circuit Rider Program provides technical assistance to rural water systems that are experiencing day-to-day operational, financial or managerial issues. Circuit Riders can also conduct critical repairs and are first- or second responders in emergencies impacting water and wastewater operations. The National Rural Water Association currently administers the Circuit Rider Program.

The Household Water Well System Grant Program, now called the Decentralized Water Systems Grant Program under the new Farm Bill, helps

qualified nonprofits and tribes create a revolving loan fund to increase homeowners' access to clean, reliable water for households in eligible rural areas. Individual septic systems will be included in 2021.

b. How are you coordinating with other agencies to address these serious public health concerns?

Response: All projects are designed to comply with each State's regulatory Agencies as well as U.S. Environmental Protection Agency (EPA) standards. The Rural Utilities Service works collaboratively with the EPA at national and state levels to address water and waste infrastructure needs, provide technical assistance to rural systems, and develop strategies to fill workforce gaps in the water industry.

For example, the EPA and Rural Utilities Service jointly developed and administer an initiative to promote sustainable rural water and wastewater systems, to include system-wide planning that incorporates sustainability goals; system partnerships that share and distribute resources and tools; recruitment and stabilization of the water workforce to fill critical skill gaps; and compliance with drinking water and clean water standards. In FY 2019, the Rural Utilities Service signed an interagency MOU on EPA's Reducing Lead in Drinking Water in Schools and Childcare Centers.

The Rural Utilities Service similarly partners with multiple Federal Agencies to leverage funding and jointly finance projects, including those that address water quality issues in rural America. Examples include EPA's State Revolving Funds, the U.S. Department of Housing and Urban Development's Community Development Block Grant Program and the U.S. Department of Health and Human Service's Indian Health Service.

The Rural Utilities Service's field offices are critical partners with state and local agencies to address water quality concerns, mirroring the USDA-EPA national collaborative efforts at the local level. Working with technical assistance providers such as the National Rural Water Association and Rural Community Assistance Partnership, the Rural Utilities Service can deploy local resources to provide much-needed technical assistance to communities. Rural Development field offices, including State Directors, also serve on water councils and boards across the nation to contribute to local strategic planning activities for water and waste infrastructure.

Senate Committee on Agriculture, Nutrition, & Forestry
Hearing on Implementing the 2018 Farm Bill: Rural Development and Energy Programs
November 7, 2019
Questions for the Record
Mr. Bryan Sievers

Senator Debbie Stabenow

- 1) Your testimony spoke to the importance of USDA's energy programs, especially in times of uncertainty surrounding ongoing trade wars, a down farm economy, and the Trump Administration's misguided biofuels policy. What can USDA do to better prioritize and support farmers in their transition to renewable energy?

RESPONSE:

Senator, in general, the USDA energy title programs are well administered. However, nothing is perfect and there is always room for improvement. Ensuring that farmers know about all available programs and understand their relevance and value to their farming operation is critical. Improved information outreach and education could help in that regard. Additionally, ensuring that should a farmer desire to apply to USDA's renewable energy programs, that the application process is as transparent and streamlined as possible. Finally, guaranteeing that the process of selection/award is as fair as possible. Right now, the REAP program is very weighted to technologies other than digesters. Our industry is not able to compete with smaller dollar projects which allow more money to be spread out in one state. We recommend implementing a systemic remedy for reallocating these dollars so that larger projects, such as digesters, do not remain undersubscribed within these programs.

- 2) We have heard from dairy and livestock producers regarding the high barriers of adoption for anaerobic digester systems on their farms. Impeding this deployment includes high financial costs, a lack of operational knowledge, and difficulties integrating into the energy grid. Can you share your farm's success story with digesters and the role USDA played in helping you achieve this goal? How might USDA better fill the educational gaps and facilitate connections with local utilities?

RESPONSE:

We have certainly encountered most, if not all, of the high barriers to adoption of on-farm anaerobic digestion. The key to solving many of these challenges is to make sure adequate design and engineering of each farm's specific situation is considered before construction starts. In addition, the industry is doing a much better job of training digester operators through, for example, the American Biogas Council's Digester Training short courses that are held around the country throughout the year. Working with USDA to incentive producers or prospective anaerobic digester developers, owners, and operators to participate in these training programs is one suggestion we would like to make. When we built our AD facilities and commissioned in 2013, we

were fortunate to receive a \$500,000 REAP, \$300,00 in EQIP grants, and participated in the BCAP program, as well. One suggestion we would like to make is for Congress to provide the discretionary funding for the BCAP program again so we, and other AD owners/operators can participate in this outstanding program by using biomass such as corn stover, perennial grasses, and cover crops and be rewarded for the value these practices bring to by improving soil health, water quality, and our environment. With regard to your question about how to facilitate connections with utilities we do believe they are doing a much better job about trying to learn how renewable electricity and renewable natural gas can provide direct and indirect benefits to the operation of their power plants and meet the needs of its customers who are asking for more renewable energy to be brought to the grid or pipeline distribution systems. We would encourage USDA and the Department of Energy to implement programs that reach out to our nation's utilities to educate and inform them about the tremendous beneficial aspects of renewable energy production, especially from biogas which can produce both renewable electricity and renewable natural gas, and how it can be integrated into their distribution and transmission networks. From this discussion we may learn about the roadblocks or challenges the utilities are facing that prevent them from integrating more renewable energy into their distribution and transmission systems and our nation's pipelines.

Senator Amy Klobuchar

- 1) Renewable energy is an important economic development tool in rural areas, but it also helps improve the environment and makes our country more energy independent.

RESPONSE:

We couldn't agree more Senator! Not only are there tremendous economic development opportunities available through renewable energy production, especially on-farm anaerobic digestion, but the benefits we derive from these efforts improve our soil health, water quality, and our environment. Creating a more energy-independent economy provides long-lasting benefits especially when those renewable energy efforts are focused in our rural areas. Anaerobic digestion of livestock wastes, food waste, and other agricultural-processing wastes like we use in our digesters allows us to capture and sequester carbon and other essential nutrients that help produce the feed and food for America's consumers, along with consumers throughout the world. Additionally, the pathogen destruction that occurs with anaerobic digestion and the composting of the separated solids provides tremendous health benefits through improved water and air quality.

- 2) How can the Department of Agriculture's renewable energy programs create opportunities for farmers and improve the quality of life in rural areas, especially given the recent low prices, natural disasters, and uncertainty with trade markets?

RESPONSE:

When we built our AD facilities and commissioned them in 2013, we were fortunate to receive a \$500,000 REAP, \$300,00 in EQIP grants, and have participated in the BCAP

program, as well. One suggestion we would like to make is for Congress to provide the discretionary funding for the BCAP program again so we, and other AD owners/operators, can participate in this outstanding program by using biomass such as corn stover, perennial grasses, and cover crops and be rewarded for the value these practices bring to by improving soil health, water quality, and our environment. We would also encourage the USDA and Department of Energy to reach out to our utilities to research, educate, and inform them about how they can integrate renewable energy from anaerobic digester facilities into the grid or our intrastate and interstate pipeline distribution network. The utilities are doing a much better job about trying to learn how renewable electricity and renewable natural gas can provide direct and indirect benefits to the operation of their power plants and meet the needs of its customers who are asking for more renewable energy to be brought to the grid or pipeline distribution systems. We would encourage the USDA and the Department of Energy to implement programs that reach out to our nation's utilities to educate and inform them about the tremendous beneficial aspects of renewable energy production, especially from biogas which can produce both renewable electricity and renewable natural gas, and how these forms of renewable energy can be integrated into their distribution and transmission networks. From these discussions we may learn about the roadblocks or challenges the utilities are facing that prevent them from integrating more renewable energy into their distribution and transmission systems and our nation's pipelines.

Senate Committee on Agriculture, Nutrition, & Forestry
Hearing on Implementing the 2018 Farm Bill: Rural Development and Energy Programs
November 7, 2019
Questions for the Record
Mr. Michael Stanley

Senator Debbie Stabenow

1. During your testimony, you mentioned how you have utilized USDA funding to expand access to telemedicine services. You stated: "Through telemedicine, our behavioral health providers have access to all of our primary care clinics as well as all of our school-based health centers." Please describe the types of services you are able to provide through telehealth in schools. What have the results been?

Grace Health began providing telehealth in our school based health sites in September 2019. We began with primary care as our first service offered via telehealth because we have a strong infrastructure of school nurses in place to support the Nurse Practitioners who provide these serves. We expect to begin providing behavioral health consultation in the spring semester now that every primary care clinic site also has equipment. As part of our quality of care standards we screen students ages 12 and older for depression. If the students should score high on this screening, our nurse practitioner can contact the behavioral health staff for consultation and make the "warm hand off" introduction for further assessment, diagnosis and treatment. Similarly, if a student presents in crisis, our staff could make the same immediate connection with behavioral health staff via telehealth. Because the local community hospital also has telehealth equipment, students could receive an immediate assessment regarding the need for hospitalization without having to be driven to the hospital by law enforcement, which is what typically happens in these situations in our outlying counties.

The results thus far have included more immediate treatment for primary care issues including the opportunity for assessment, diagnosis and intervention in a more timely manner. Nurse practitioners can e-prescribe medications which can be picked up by parents as soon as they are able. Because we do not have a nurse practitioner at every school, every day, telehealth allows us to offer access to services at every school without parents having to transport children to the closest provider. As a result, parents have reduced travel time and reduced time off work. We anticipate that during flu and strep throat outbreaks, we can be more responsive to the individual school needs to help prevent or alleviate the impact of these viruses on school attendance and even school closure. Early intervention via telehealth will be key as we work with five rural school districts that feel the impact of lost school time for students and staff.

Currently, our behavioral health team is utilizing telehealth between our primary care clinic sites only.

2. I have a bipartisan bill with Senator Capito to provide new funding to school-based health centers and recognize the full range of services they provide. What other services would you like to offer or improve on if you had long-term funding certainty?

- Expanded health education for students in classrooms
- More preventative health services beyond well child exams
- Smoking and E-cigarette prevention and cessation programs
- Education about vaping
- Alcohol, tobacco, and drug use assessments for adolescents
- Comprehensive depression screening for adolescents
- Obesity screening and nutritional counseling
- Physical activity and cardiovascular health in students
- Mentor programs for single parent household to do fun physical activities
- Dyslipidemia screening for students
- Hemoglobin screenings for all students at risk of diabetes / obesity
- Lead screening for students at risk of exposure
- Sexual transmitted infection prevention, counseling and screening for adolescents at risk
- Medication management consultation for children and their parents for new medications for diabetes or other health and behavioral health issues (depression, ADHD, etc.)
- Care coordination for students released from hospitalization back to the school or from residential treatment settings back to the community who need follow up appointments

Senator Robert P. Casey, Jr.

- 1) In Pennsylvania 48 of our 67 counties are rural. I hear firsthand of the difficulty our rural communities face recruiting providers and I appreciate the important role telemedicine plays in providing rural communities with access to critical services. This rings especially true for our rural seniors and people with disabilities, who often need specialized care. Nevertheless, telemedicine is not a substitute for quality face-to-face supportive services, like the services provided through Area Agencies on Aging and Centers for Independent Living. In your testimony you mention that Grace Health improved patient engagement by providing supportive services and warm-handoffs.
- a. Could you discuss the important role of community organizations, like Area Agencies on Aging and Centers for Independent Living, in bridging the gap

between telemedicine and face-to-face direct services for seniors and people with disabilities in rural communities?

The advances in telemedicine equipment and the quality of the interaction between the provider and the patient has improved greatly over the past few years. Equipment has also become much more user-friendly for both the provider and the patients. With that said, the human aspect remains an essential aspect of high quality health care. Supportive community-based programs can play a key role in bridging this gap. Patient navigation, including helping patients get to appointments and following up with patients at home are vital to keeping seniors and persons with disabilities in the community. A navigator has the opportunity to build a strong relationship with the patient and provider to increase comfort with the telehealth equipment and process. Transportation provided by these agencies is also essential to help patients keep appointments that might be critical to their overall health status and allow them to remain at home or in the community. For example, Grace Health has patients that might have to travel over an hour an hour a half for a specialty referral or a surgery in Lexington, the closest large city. Many patients don't have transportation to make this long drive and others don't want to leave their home community to go to the city where they have to deal with lots of traffic, one-way streets and an intimidating maze in the larger hospital or doctor's office. With drive time, wait time, and time spent with the provider it often amounts to a full day event. These barriers can be mitigated by telehealth. Grace Health as telehealth equipment in of its clinics and school based sites in five counties. Patients could schedule a telehealth visit with the specialist / surgeon and simply travel to the closest clinic location with enabling support for transportation and care navigation.

As telehealth regulations continue to change with the advances in technology and access to broadband / access to the internet increases, supportive program could be key to home monitoring programs using telehealth. As partners with the primary care provider, seniors discharged from nursing homes that need at-home follow-up, persons with disabilities, persons with chronic conditions, etc. could be more closely monitored to increase early intervention and prevent conditions from worsening.

Senate Committee on Agriculture, Nutrition, & Forestry

Hearing on Implementing the 2018 Farm Bill: Rural Development and Energy Programs

November 7, 2019

Questions for the Record

Dr. Jeff Dwyer

Senator Debbie Stabenow

***Q1:** During your testimony, you mentioned that MSU Extension has partnered with national agricultural organization (i.e. National Farmers Union and American Farm Bureau Federation) to disseminate educational material and resources regarding farmer stress. You also mentioned that MSU Extension is training certain staff at these organizations to extend the reach of the MSU farmer stress education program. Can you describe how USDA can aid MSU Extension in disseminating your research and educational material around farmer stress management? What role can the federal government play in raising awareness about farmer stress and other emerging rural health issues?*

Since 2016, Michigan State University (MSU) Extension has been delivering two farm stress management workshops in Michigan—one focused on those who work and communicate with farmers and another for farmers. In January 2019, we hosted a national summit on farm stress management to help teach Extension professionals in other states how to apply this curriculum using their own experts. Since that time, 17 states have implemented these programs. Evaluations show that program participants were better prepared to communicate with stressed farmers, learned how to listen empathically, and felt better prepared to talk with and offer resources to someone who expresses thoughts of suicide.

Building off the success of these workshops, the Farm Service Agency (FSA) partnered with MSU Extension to create online and in-person trainings for FSA employees. In the spring and summer of 2019, 483 FSA employees received training online in farm stress management. Additionally, 424 FSA employees received in-person training. Currently, MSU is creating a revised online training for members of the American Farm Bureau Federation, National Farmers Union and Farm Credit Council. This revised training builds on the success of past programs and brings the content to new audiences. USDA can help MSU Extension tell this story of successful programming and outcomes for our state residents and national partners. MSU Extension has developed and tested resources and training programs to share with other organizations interested in reaching farming audiences.

USDA can aid MSU Extension in disseminating our farm stress management resources by first becoming aware of the resources and then becoming familiar enough with the current available content to promote the materials to others. There is also great potential in new resources that can be created by MSU Extension based on current capacity and talents.

The federal government can play a role in raising awareness about farm stressors and other emerging rural health issues by promoting and funding collaborative projects for teams of

agriculture, farm finance and health professionals. In communities, this looks like implementing effective prevention strategies and interventions to mitigate impacts of farm stress. This type of work takes interdisciplinary approaches and expertise. Stressors outside of one's control (e.g., weather, tariffs) contribute to the most distress; yet, people can learn stress management techniques. Interventions are needed for individuals and family situations to reduce the impact of geographical isolation and fewer resources in rural areas. With your assistance, we can better help communities reduce stigma and create access to mental health resources.

Public policy needs to address the health of the agricultural workforce. We know that farm work is dangerous, hard labor with long hours, often alone, that can be isolating. We have government programs and funding to prevent on-farm injuries and disabilities; now we need these programs and resources for mental health. Rural areas where farming takes place have lower access to behavioral health care. Even farmers with health insurance coverage pay for this out-of-pocket and do not always have access to behavioral health benefits. Government, universities and the Cooperative Extension Service (CES) need to work together to end the stigma that limits access to care. We can help people develop their skills to raise awareness of signs and symptoms of stress. If we help people acquire skills to step in when they see issues in others or self, then we can contribute to stress management and ultimately prevent suicide.

Other interdisciplinary efforts include having agriculture and health professionals work together to help farm families in the succession, transfer or loss of their farm (specifically bankruptcy). Current agriculture policies help with crop risk, but now we need to focus on human health risks. Programs and resources are needed to assist people to manage their stress and to communicate with others. Cooperative Extension, including MSU Extension, is well-positioned to provide these types of wrap-around programs for our farming communities in rural areas.

Q2: MSU Extension is doing some really innovative work in areas that aren't traditionally thought of as Extension services – healthcare for example. Your testimony highlighted how our farmers and rural families are in need of better services to deal with many health issues ranging from injury and addiction to stress induced disease, and mental health. Please describe the work MSU Extension is doing in Michigan to fill the gaps in healthcare provided to rural communities? How can we use MSU's experience with this model to address health related issues in rural communities in other states?

Cooperative Extension Service professionals throughout the country work in numerous areas that impact the social determinants of health—defined by the World Health Organization as “the circumstances in which people are born, grow up, live, work and age, and the systems put in place to deal with illness.” Adequate incomes, jobs, affordable housing, quality education, health services, and many other social and economic factors directly impact individual and population health. Often, rural residents are disadvantaged in these areas. MSU Extension has a conscious recognition community and economic development, youth success, agriculture and nutrition education can make an extraordinary difference in the overall health of community members.

In my written testimony, I explained that MSU Extension's recent experience in mental health and community behavioral health builds on our 100-year reputation of serving rural audiences through agriculture education programs and models the emerging role that CES should play in both rural and urban communities. The Affordable Care Act suggested that community-based healthcare delivery could be *modeled* after the CES. The Michigan State University Extension approach, alternatively, maintains that the CES *is* the ideal vehicle for facilitating community engaged, health-related research and care delivery because of its proven track record, existing budget, statewide presence, a staffing structure that includes content experts in human health, and well-developed, local community partnerships. We are not therapists, psychologists or doctors, but we are trusted partners whom farmers lean on. Education around these issues is best received when our faculty and staff members who work in these areas walk into agriculture audiences shoulder-to-shoulder with our MSU Extension agriculture staff members who have existing, trusted relationships with farmers.

Senator Robert P. Casey, Jr.

I understand there is tremendous variability in Extension from State to State. And that is by design because Pennsylvania is not Louisiana is not Alaska.

Q1: *I understand that Rural Development has become a higher priority at MSU and in some other states – why is that?*

Our approach is based on the recognition that social and economic factors continue to be the best predictors of health and quality of life for individuals, families and communities, especially in rural areas. Hence, we have invested significant resources in rural development in ways that, like most states, varies significantly by region. Michigan was part of a "Stronger Economies Together"—a national pilot program between USDA Rural Development (RD) and a collection of state Cooperative Extension Services. This rural economic development initiative provided an introduction between participating CESs and USDA RD, and teed-up a true collaboration. Since that initial partnership, MSU Extension staff and RD staff have continued to work together on other critical rural issues, including housing, rural broadband, and community vitality. Collectively, our CES staff members that participated in this program across the country know and trust each other. They often jointly conduct outreach activities, and routinely make cross references, as appropriate. As such, we are strong stewards of the federal funds we collectively receive.

Q2: *What would it take to get other states to prioritize rural community and economic development within their Extension system?*

The agricultural sector represents a legacy stakeholder group for the CES. A strong agricultural community, however, is also dependent on a strong rural economy. Michigan State University

Extension has long recognized this interdependency, and through strong state and county funding, has made the necessary staffing investments to offer a robust collection of community and economic development education and training programs that are contributing to greater vitality. These programs range from enhancing tourist economies to developing small business infrastructure in regions that have limited resources. Many other states have made similar local investments, but it varies across the CES network. While federal and state CES funding has remained relatively flat the past decade, we have been successful in identifying other funding partners (e.g., local community foundations, local economic development agencies, workforce development organizations) to provide additional resources to build the necessary capacity to be an effective resource for rural places. Our advice to our colleagues who have been less active in this space is absent of increased federal funding, think of creative partnerships that can grow your staffing investment and expertise. Concomitantly, effectively addressing economic challenges facing rural America requires a holistic approach that triages the collective expertise of the CES system, including leadership development, health and well-being, and housing/financial literacy.

Q3: What do you see as the role of the Cooperative Extension System in advancing a 21st century approach to community and economic development, and by that I mean an approach that goes beyond business attraction and resource extraction to focus on local enterprise and ownership, building inclusive wealth and improving overall health and well-being? What could this body do to make it easier for Cooperative Extension to be a partner in this work?

One clear advantage for most CES programs is that we have a statewide footprint, actually live and work in the communities that we serve, and have a 100+ year history of adapting to the needs of communities. Because of the longstanding support from this committee, the USDA/NIFA and many others, these factors provide a structural advantage for impacting rural community and economic development that should be enhanced. In many states, including Michigan, the CES has been a leader in community-based entrepreneurship and inclusive wealth building that enhances both community and individual health and well-being. From entrepreneurship trainings to connecting aspiring entrepreneurs to campus-based resources (such as the MSU Product Center, which assists food entrepreneurs), and from data-driven regional economic development trainings to financial literacy coaching and workforce development initiatives, Cooperative Extension is uniquely positioned to be a leader and catalyst in new economy approaches to greater vitality and well-being. Numerous other federal agencies, such as USDA Rural Development, Health and Human Services, Small Business Administration, and others, can and should be important partners in this critical work. Incentivizing creative federal and state CES partnerships that spur innovative approaches to wealth creation can further advance local and regional initiatives designed to equip communities for the new economy realities. The Michigan State University Extension approach, alternatively, maintains that the CES is the ideal vehicle for facilitating the development and implementation of community-based programming well beyond the traditional youth and agricultural programs that have been its history. Yet, in my time as Director of MSU Extension, I have witnessed the extent to which CES is unknown to many, and known for only one or two areas of emphasis by those who are informed. Your support for helping to inform other

agencies, colleagues and constituents about the work of CES and the potential for addressing issues that effect individuals, families and communities would be very impactful. In addition, encouraging other agencies (e.g., NIH, CDC, DOD, DOE) to explicitly include CES partnerships and collaborators in funding opportunities would establish a mechanism for further realizing the potential for the CES.

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RBCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount
ALABAMA	ASHFORD DOWNTOWN REDEVELOPMENT AUTHORITY	SSDPG	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	09/25/19	0	174,724	0
ALABAMA	ASHFORD DOWNTOWN REDEVELOPMENT AUTHORITY	REG	RECS ENTERPRISE GRANTS	06/27/19	0	59,800	0
ALABAMA	AUBURN UNIVERSITY	REG	RECS DEVELOPMENT GRANT	06/26/19	0	47,562	0
ALABAMA	AUBURN UNIVERSITY	REG	RECS ENTERPRISE GRANTS	06/27/19	0	99,340	0
ALABAMA	BRUNIDGE CITY OF	REG	PERSISTENT POVERTY RBCS BUSINESS ENTERPRISE GRANT	06/27/19	0	100,000	0
ALABAMA	BUCHANAN HARDWOOD FLOORING COMPANY, LLC	EEL	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/28/19	0	19,325	0
ALABAMA	CAMDEN CITY OF	REG	PERSISTENT POVERTY RBCS BUSINESS ENTERPRISE GRANT	06/17/19	0	126,229	0
ALABAMA	CENTRAL ALABAMA REGIONAL PLANNING & DEV	REG	RECS DEVELOPMENT GRANT	06/27/19	0	54,438	0
ALABAMA	CHILDERSBURG CITY OF	REG	RECS ENTERPRISE GRANTS	06/26/19	0	55,000	0
ALABAMA	CIRCLE OF CARE	REG	RECS ENTERPRISE GRANTS	06/27/19	0	99,000	0
ALABAMA	COASTAL FOREST RESOURCES COMPANY	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	09/01/19	0	81,327	0
ALABAMA	CRAIG FIELD AIRPORT & IND. AUTHORITY	REG	PERSISTENT POVERTY RBCS BUSINESS ENTERPRISE GRANT	06/27/19	0	186,809	0
ALABAMA	DECATUR MORGAN COUNTY ENTREPRENEURIAL ASSOCIATION OF SOUTHERN COOPERATIVES	REG	RECS ENTERPRISE GRANTS	06/27/19	0	99,750	0
ALABAMA	GAYLON DRAKE CPA	RES	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/24/19	0	200,000	0
ALABAMA	GULF COAST AUTOMATION SOLUTIONS LLC	EEL	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	7,182	0
ALABAMA	GULF COAST AUTOMATION SOLUTIONS LLC	EEL	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/28/19	0	10,325	0

0 Rural Development funds will be used to provide technical assistance.

The purpose of this project consists of completing a comprehensive master plan for the redevelopment of the downtown area of the City of Ashford, Alabama. The project will include the construction of a new parking lot, the renovation of existing buildings, and a plan of action for the downtown area.

Rural Development funds will be used for a feasibility study with a long term goal of the future development of an Alabama greenhouse vegetable industry.

Rural Development funds will be used for technical assistance to develop technical and 0 safety skills and increase business knowledge for Green Industry business sector.

The purpose of this project is for revitalization of an existing building to be used for a retail 0 business incubator in Brundage, Alabama.

This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED Lighting at a flooring company owned by Buchanan Hardwood Flooring Company, LLC in Camden, Alabama. The project will save 33,459 per year, and will save 477,980 kWh (71.19%) per year, which is enough 0 electricity to power 50 homes.

This Rural Development investment will be used to purchase and install a locally owned restaurant located in Camden, Alabama. The project will also create 4 new jobs. Camden, 0 Alabama is located in Wilcox County which is a high unemployment, high poverty, and 0 persistently poor county.

This Rural Development investment will be used to conduct a feasibility study to determine if a new interstate interchange in Autauga County is feasible. The expansion could lead to 0 convenience and economic development to a rural area.

This Rural Development investment will be used to remove and replace a roof on an existing building 0 that will be used for a business incubator.

Rural Development funds will be used for renovations to an existing building that will house a 0 business incubator.

This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED Lighting at a flooring company owned by Buchanan Hardwood Flooring Company, LLC in Camden, Alabama. The project will save 33,459 per year, and will save 477,980 kWh (71.19%) per year, which is enough 0 electricity to power 50 homes.

This Rural Development investment will be used to purchase and install a 7.6kW solar array (solar panels) at Gaylon Drake, CPA. The applicant is a locally owned accounting firm 0 that will save \$1,164 per year and will replace 10,565 kWh.

This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting at a machining facility owned by Gulf Coast Automation Solutions, LLC in Bay Minette. This project will save \$11,389 per year, and will 0 save 34,250 kWh (71.35%) per year, which is enough electricity to power 5 homes.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
ALABAMA	GUNTERVILLE FEED STORE, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/31/19	0	35,712	0	This Rural Development investment will be used to purchase and install a 35.0kW solar system with a 10-year warranty. The project will be used to power the feed store and specialities in farming, livestock, garden, and agricultural supplies. The project will save \$9,725 per year and will replace 80,377 kWh (100%) per year, which is enough electricity to power seven homes.
ALABAMA	HARRIGAN LUMBER COMPANY, INC.	EEL	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	09/30/19	0	20,000	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy-efficiency improvements with the installation of a new air compressor at a sawmill owned by Harrigan Lumber Company in Monroeville. This project will realize \$27,804 per year in savings, and will save 388,508kWh (43.88%) per year, which is enough electricity to power 38 homes.
ALABAMA	RBC'S ENTERPRISE GRANTS	RBCG	RBC'S ENTERPRISE GRANTS	06/20/19	0	125,000	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy-efficiency improvements with the installation of a new air compressor at a sawmill owned by Jasper Lumber Co. in Jasper. This project will realize \$52,873 per year in savings, and will save 1,018,539 kWh (43.88%) per year, which is enough electricity to power 102 homes. This Rural Development investment will be used to refinance existing debt. The borrower's debt service will be reduced, resulting in improved cash flow.
ALABAMA	JASPER LUMBER COMPANY, INC.	EEL	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	09/27/19	0	20,000	0	This Rural Development investment will be used to make energy efficiency improvements to the operations of a sawmill owned by Lewis Brothers Lumber Company in Aliceville. Lewis Brothers Lumber Company has been in business for over 70 years and produces top quality lumber and hardwood flooring. This project will save \$38,640 per year and will save 505,575kWh (67.5%) per year, which is enough electricity to power 51 homes.
ALABAMA	LEE HAN AMERICA, INC.	BI	GUARANTEED BI 3% FEE LOAN	09/27/19	10,000,000	0	0	Funds will be used to refinance a parking lot at the Marengo County Business Incubator located in Under, Alabama. The project will potentially create 19 new jobs. Marengo County is a persistently poor, high poverty, and high unemployment county.
ALABAMA	LEWIS BROTHERS LUMBER COMPANY	REAP	REAP-MAND.ENERGY EFF IMPROV GRANTS	07/31/19	0	28,745	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting at a sawmill owned by McChes Lumber Co. in McChes. This project will save \$11,135 per year, and will save 111,330kWh (67.53%) per year, which is enough electricity to power 11 homes.
ALABAMA	MARENGO COUNTY COMMISSION	RBCG	RBC'S ENTERPRISE GRANTS	07/16/19	0	145,500	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy-efficiency improvements with the purchase of a new air compressor at a sawmill owned by McChes Lumber Co. in McChes. This project will realize \$54,327 per year in savings, and will save 431,715kWh (43.88%) per year, which is enough electricity to power 40 homes.
ALABAMA	MCCOEE LUMBER COMPANY, INC.	EEL	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/29/19	0	6,459	0	Working capital funds will be used to expand the wire processing operation and grow the project. Grant funds will be used to offset the costs associated with installing a PV solar system. The project will generate 1,287,200 kWh per year.
ALABAMA	MC SHAN LUMBER COMPANY	EEL	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/06/19	0	19,562	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy-efficiency improvements with the purchase and installation of new tube bins and adding insulation for poultry houses owned by Jerry Peak near Chocoma. The project will realize \$3,380 per year in savings, and will replace 73,124 kWh (17.85%) per year, which is enough electricity to power 7 homes.
ALABAMA	MONROE BUSINESS VENTURES, LLC	VAPG	VALUE-ADDED PRODUCER OIL GRANTS/OSCR	06/20/19	0	142,000	0	Digital literacy training for small companies in Florence, Sheffield, Tusculumb, Muscle Shoals, AL and in Minor County and Franklin County AL.
ALABAMA	NORTH ALABAMA FABRICATING COMPANY, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	08/01/19	0	232,849	0	
ALABAMA	PEAK FARMS INC	EEL	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/25/19	0	7,881	0	
ALABAMA	SHOALS ENTREPRENEURIAL CENTER, INC.	RBCG	RBC'S ENTERPRISE GRANTS	06/27/19	0	115,500	0	
ALABAMA	SHEGEE TRAVEL CENTER, LLC	BI	GUARANTEED BI 3% FEE LOAN	03/20/19	5,000,000	0	0	

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
ALABAMA	SOUTH ALABAMA ELECTRIC COOPERATIVE	REDLG	PP-REDL ELECTRIC REDL - FINANCING (ELECTRIC) - LOAN	09/05/19	0	0	1,000,000	<p>This Rural Development investment will be used by South Alabama Electric Cooperative to provide a zero-interest loan to the Industrial Development Board for the City of Troy (Troy IDB). The Troy IDB will use the funding to assist in site preparation and construction of a new manufacturing facility. The project will create 150 new jobs and generate annual revenue of \$42,020,000 and consists of this \$1,000,000 loan (loan price and interest) of \$15,200,000 from the Troy IDB (bank line of credit for site prep and construction) and \$26,420,000 from lender to equipment and facility build out. This project will create 360 new jobs with an average wage of \$40,351.</p>
ALABAMA	SOUTH ALABAMA ELECTRIC COOPERATIVE	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	09/05/19	0	243,634	0	<p>This Rural Development investment will be used by South Alabama Electric Cooperative to provide a zero-interest loan to the Industrial Development Board for the City of Troy (Troy IDB). The Troy IDB will use the funding to assist in site preparation and construction of a new manufacturing facility. The project will create 150 new jobs and generate annual revenue of \$42,020,000 and consists of this \$1,081,113 and consists of this \$243,634 grant, \$80,000 loan from South Alabama Electric Cooperative, and \$777,479 from the Troy IDB. This project will create 360 new jobs with an average wage of \$40,351.</p>
ALABAMA	THE CATALYST CENTER FOR BUS & ENTREPRENE	REEG	RBGS ENTERPRISE GRANTS	06/27/19	0	74,831	0	<p>Rural Development funds will be used to provide skills, website, leadership training, as well as computer literacy and social media training to workforce for small businesses. This project will create 150 new jobs and generate annual revenue of \$42,020,000 and consists of this \$74,831 grant, \$80,000 loan from South Alabama Electric Cooperative, and \$777,479 from the Troy IDB. This project will create 360 new jobs with an average wage of \$40,351.</p>
ALABAMA	THE UNIVERSITY OF ALABAMA	REAR	RENEWABLE ENERGY DEVELOPMENT ASSISTANCE GRANTS	03/27/19	0	60,000	0	<p>Project funds will be used to conduct approximately 20 renewable energy site assessments for rural small businesses and agricultural producers in the state of Alabama. Assistance will be provided for renewable energy technical assistance and/or renewable energy site assessments.</p>
ALABAMA	TRMC OFFICE BUILDING I, LLC	BI	GUARANTEED 84.3% FEE LOAN	06/02/19	4,143,750	0	0	<p>84% Guarantees Loan Funds will be used to finance the construction of a medical office building.</p>
ALABAMA	WEIGH-TEC, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/01/19	0	49,795	0	<p>This Rural Development investment will be used to purchase and install a 49.52kW solar array (solar panels) at Weigh-Tec located in Decatur. Weigh-Tec has been in business for over 25 years and is a full-service industrial scale company that manufactures truck and rail equipment. The project will create 150 new jobs and generate annual revenue of \$42,020,000 and consists of this \$49,795 grant, \$80,000 loan from South Alabama Electric Cooperative, and \$777,479 from the Troy IDB. This project will create 360 new jobs with an average wage of \$40,351.</p>
ALABAMA	WILLIAMSON CATTLE COMPANY	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	09/02/19	0	134,972	0	<p>This Rural Development investment will be used to make energy efficiency improvements to the Williamson Cattle Company facility. The project will create 150 new jobs and generate annual revenue of \$42,020,000 and consists of this \$134,972 grant, \$80,000 loan from South Alabama Electric Cooperative, and \$777,479 from the Troy IDB. This project will create 360 new jobs with an average wage of \$40,351.</p>
ALASKA	ALASKA DREAM MAKERS (ADM INC)	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/03/19	0	15,000	0	<p>Rural Development funds will be used to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This Rural Development investment will be used to build a 17.7 kW solar panel array for the Alaska Dream Makers (ADM) facility. The project will create 150 new jobs and generate annual revenue of \$42,020,000 and consists of this \$15,000 grant, \$80,000 loan from South Alabama Electric Cooperative, and \$777,479 from the Troy IDB. This project will create 360 new jobs with an average wage of \$40,351.</p>
ALASKA	ALASKA FISHERIES DEVELOPMENT FOUNDATION	REEG	RBGS ENTERPRISE GRANTS	06/14/19	0	83,719	0	<p>Rural Development funds will be used to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This Rural Development investment will be used to build a 17.7 kW solar panel array for the Alaska Fisheries Development Foundation facility. The project will create 150 new jobs and generate annual revenue of \$42,020,000 and consists of this \$83,719 grant, \$80,000 loan from South Alabama Electric Cooperative, and \$777,479 from the Troy IDB. This project will create 360 new jobs with an average wage of \$40,351.</p>
ALASKA	ALLERETT, JASPER P	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/19/19	0	46,618	0	<p>This Rural Development investment will be used to make energy efficiency improvements to the Allerett, Jasper P facility. The project will create 150 new jobs and generate annual revenue of \$42,020,000 and consists of this \$46,618 grant, \$80,000 loan from South Alabama Electric Cooperative, and \$777,479 from the Troy IDB. This project will create 360 new jobs with an average wage of \$40,351.</p>

RBCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
ALASKA	AMBERG, WILLIAM	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	9,895	0	Rural Development funds will be used to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This small remote hay farm does not have grid tied electric. They currently use a generator to run their pumps and other equipment on the farm. The addition of a solar panel system will eliminate the need for a generator, reduce the amount of fuel used for simple tasks like water pumping and lighting. It will save time hauling diesel and maintaining the generator and it will create quieter evenings and nights on the farm. The solar system will be installed and the equipment will be used to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The Atrium Building, LLC in Palmer is also the USDA Service Center and the project will be used to assist farmers, ranchers and rural small businesses in making energy-efficiency improvements in the building. The projected annual energy savings is equivalent to the annual electric use in 6.2 U.S. homes
ALASKA	ATRIUM BUILDING PALMER, LLC	EEl	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/22/19	0	4,940	0	Rural Development funds will be used to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This fishing vessel will benefit from an upgraded RSW refrigeration systems. The saved energy is equivalent to 2 U.S. homes annual electrical usage. The project will be used to assist farmers, ranchers and rural small businesses in making energy-efficiency improvements in the building. The projected annual energy savings is equivalent to the annual electric use in 6.2 U.S. homes
ALASKA	BASARGIN, ANTONOM L	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	06/26/19	0	9,437	0	Rural Development funds will be used to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This fishing vessel will benefit from an upgraded RSW refrigeration systems. The saved energy is equivalent to 2 U.S. homes annual electrical usage. The project will be used to assist farmers, ranchers and rural small businesses in making energy-efficiency improvements in the building. The projected annual energy savings is equivalent to the annual electric use in 6.2 U.S. homes
ALASKA	BELL, MICHAEL EARL	EEl	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/21/19	0	10,000	0	Rural Development funds will be used to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This fishing vessel will benefit from an upgraded RSW refrigeration systems. The saved energy is equivalent to 2 U.S. homes annual electrical usage. The project will be used to assist farmers, ranchers and rural small businesses in making energy-efficiency improvements in the building. The projected annual energy savings is equivalent to the annual electric use in 6.2 U.S. homes
ALASKA	CARLSON, DALE L	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/22/19	0	11,738	0	Rural Development funds will be used to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This fishing vessel will benefit from an upgraded RSW refrigeration systems. The saved energy is equivalent to 2 U.S. homes annual electrical usage. The project will be used to assist farmers, ranchers and rural small businesses in making energy-efficiency improvements in the building. The projected annual energy savings is equivalent to the annual electric use in 6.2 U.S. homes
ALASKA	CHAKUNCHIN, JOHN	EEl	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/22/19	0	16,971	0	Rural Development funds will be used to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This fishing vessel will benefit from an upgraded RSW refrigeration systems. The saved energy is equivalent to 2 U.S. homes annual electrical usage. The project will be used to assist farmers, ranchers and rural small businesses in making energy-efficiency improvements in the building. The projected annual energy savings is equivalent to the annual electric use in 6.2 U.S. homes

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
ALASKA	SPRUCE ROOT, INC.	REGD	RSCS DEVELOPMENT GRANT	06/12/19	0	25,000	0	Rural Development funds will be used to provide technical assistance to new and/or small businesses in the rural communities and villages of the Ketchikan Gateway Borough. The project will focus on business development plans, produce financial projections, and evaluate business feasibility.
ALASKA	STELLER ENTERPRISES	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/27/19	0	6,812	0	Rural Development funds will be used to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Rural Development REAP funds will be used to assist the family owned Alaskan Spruce Root, Inc. in the development of a new spruce root processing facility. The project is projected to offset 100 percent of the businesses electrical load for the first three years. The eligible portion of this project will realize \$1,419 in annual savings per year. 0 the equivalent of the typical electric used annually in one US home.
ALASKA	SW AK MUNICIPAL CON	REAP	REAP ENERGY AUDIT RECIPIENT	03/22/19	0	100,000	0	Rural Development funds will be used to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This Rural Development investment will be used to build a 21 MW solar PV system on the roof of a locally owned restaurant building in Talkeetna Alaska. This project will provide technical assistance to rural entrepreneurs and existing businesses through on-site visits and in-person and online training, including business plans, marketing plans, and financial forecasting.
ALASKA	TALKEETNA RESTAURANT LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/01/19	0	19,372	0	This Rural Development loan guarantee investment will be used to construct a four-story hotel in the popular tourist area. The project will create 15 new jobs in a city where the unemployment rate is 138.8% of the statewide rate and will further support the recreational economy of this rural community.
ALASKA	UNIVERSITY OF ALASKA ANCHORAGE	REGD	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/26/19	0	170,000	0	Rural Development grant funds will be used for a multi-faceted project in which the grantee will be purchasing commercial kitchen equipment to expand the Apo Farmers Market Store and kitchen, establish a website to assist in marketing local food production, create a brand and logo, and develop a business plan for the store. The project will create 15 new jobs in a city where the unemployment rate is 138.8% of the statewide rate and will further support the recreational economy of this rural community.
ALASKA	UNIVERSITY OF ALASKA ANCHORAGE	REGD	RSCS ENTERPRISE GRANTS	06/13/19	0	72,800	0	Rural Development grant funds will be used for a multi-faceted project in which the grantee will be purchasing commercial kitchen equipment to expand the Apo Farmers Market Store and kitchen, establish a website to assist in marketing local food production, create a brand and logo, and develop a business plan for the store. The project will create 15 new jobs in a city where the unemployment rate is 138.8% of the statewide rate and will further support the recreational economy of this rural community.
ARIZONA	A SUNSET CHATEAU LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/14/19	0	47,628	0	Rural Development grant funds will be used for a multi-faceted project in which the grantee will be purchasing commercial kitchen equipment to expand the Apo Farmers Market Store and kitchen, establish a website to assist in marketing local food production, create a brand and logo, and develop a business plan for the store. The project will create 15 new jobs in a city where the unemployment rate is 138.8% of the statewide rate and will further support the recreational economy of this rural community.
ARIZONA	AAR HOSPITALITY, LLC	BI	GUARANTEED BAI 3% FEE LOAN	11/23/18	7,400,000	0	0	Rural Development grant funds will be used for a multi-faceted project in which the grantee will be purchasing commercial kitchen equipment to expand the Apo Farmers Market Store and kitchen, establish a website to assist in marketing local food production, create a brand and logo, and develop a business plan for the store. The project will create 15 new jobs in a city where the unemployment rate is 138.8% of the statewide rate and will further support the recreational economy of this rural community.
ARIZONA	AJO CENTER FOR SUSTAINABLE AGRICULTURE	REGD	RSCS ENTERPRISE GRANTS	07/26/19	0	50,000	0	Rural Development grant funds will be used for a multi-faceted project in which the grantee will be purchasing commercial kitchen equipment to expand the Apo Farmers Market Store and kitchen, establish a website to assist in marketing local food production, create a brand and logo, and develop a business plan for the store. The project will create 15 new jobs in a city where the unemployment rate is 138.8% of the statewide rate and will further support the recreational economy of this rural community.
ARIZONA	ALTA REAL ESTATE LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/29/19	0	156,438	0	Rural Development grant funds will be used for a multi-faceted project in which the grantee will be purchasing commercial kitchen equipment to expand the Apo Farmers Market Store and kitchen, establish a website to assist in marketing local food production, create a brand and logo, and develop a business plan for the store. The project will create 15 new jobs in a city where the unemployment rate is 138.8% of the statewide rate and will further support the recreational economy of this rural community.
ARIZONA	AMBAYA GOLD HEALTH PRODUCTS LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/05/19	0	14,602	0	Rural Development grant funds will be used for a multi-faceted project in which the grantee will be purchasing commercial kitchen equipment to expand the Apo Farmers Market Store and kitchen, establish a website to assist in marketing local food production, create a brand and logo, and develop a business plan for the store. The project will create 15 new jobs in a city where the unemployment rate is 138.8% of the statewide rate and will further support the recreational economy of this rural community.
ARIZONA	ANTELOPE HOSPITALITY LLC	BI	GUARANTEED BAI 3% FEE LOAN	04/15/19	6,900,000	0	0	Rural Development grant funds will be used for a multi-faceted project in which the grantee will be purchasing commercial kitchen equipment to expand the Apo Farmers Market Store and kitchen, establish a website to assist in marketing local food production, create a brand and logo, and develop a business plan for the store. The project will create 15 new jobs in a city where the unemployment rate is 138.8% of the statewide rate and will further support the recreational economy of this rural community.
ARIZONA	APACHE COUNTY	REGD	RSCS ENTERPRISE GRANTS	07/25/19	0	59,000	0	Rural Development grant funds will be used for a multi-faceted project in which the grantee will be purchasing commercial kitchen equipment to expand the Apo Farmers Market Store and kitchen, establish a website to assist in marketing local food production, create a brand and logo, and develop a business plan for the store. The project will create 15 new jobs in a city where the unemployment rate is 138.8% of the statewide rate and will further support the recreational economy of this rural community.
ARIZONA	BRADLEY R SMITH, DMD, DHSC PLLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/19/19	0	17,864	0	Rural Development grant funds will be used for a multi-faceted project in which the grantee will be purchasing commercial kitchen equipment to expand the Apo Farmers Market Store and kitchen, establish a website to assist in marketing local food production, create a brand and logo, and develop a business plan for the store. The project will create 15 new jobs in a city where the unemployment rate is 138.8% of the statewide rate and will further support the recreational economy of this rural community.

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RBCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Origined	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
ARIZONA	DESERT ALLIANCE	REBG	RECS ENTERPRISE GRANTS	07/26/19	0	20,000	0	
ARIZONA	DESERT ALLIANCE	REBG	RECS ENTERPRISE GRANTS	07/15/19	0	50,000	0	
ARIZONA	KHAN CATTLE COMPANY LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/25/19	0	20,000	0	
ARIZONA	LOCAL FIRST ARIZONA FOUNDATION	REBG	RECS ENTERPRISE GRANTS	07/26/19	0	57,000	0	
ARIZONA	LOGG INC.	BI	GUARANTEED BA 3% FEE LOAN	08/26/19	6,000,000	0	0	
ARIZONA	MARICOPA ABERDEE LLC	BI	GUARANTEED BA 3% FEE LOAN	08/26/19	7,500,000	0	0	
ARIZONA	MOHAVE ELECTRIC COOPERATIVE, INC.	REDLG	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	08/29/19	0	0	107,200	
ARIZONA	NANAYATI, DITHI COMMISSION GOVERNANCE	REBG	RECS OPPORTUNITY/NATIVE AMERICAN GRANTS	08/26/19	0	200,000	0	
ARIZONA	NOGALES COMMUNITY DEVELOPMENT CORP	RMAP	DISCRETION ASSIST MICROENTERPRENEURS	08/26/19	0	25,631	0	
ARIZONA	PALM SPRINGS LLC	BI	GUARANTEED BA 3% FEE LOAN	08/06/19	1,811,000	0	0	
ARIZONA	PREP MICROBUSINESS & HOUSING DEVELOPMENT	RMAP	DISCRETION ASSIST MICROENTERPRENEURS	09/27/19	0	20,612	0	
ARIZONA	PRESICOTT ATHLETIC CLUB LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST	05/08/19	0	48,750	0	
ARIZONA	RIVER FEVER LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/05/19	0	20,000	0	
ARIZONA	SAN XAVIER COOPERATIVE ASSOCIATION, INC	SDSPQ	SMALL SOCIALLY DISADVANTAGED PRODUCER GRANT	09/25/19	0	174,840	0	
ARIZONA	SAN XAVIER DISTRICT OF THE O NATION	REBG	RECS ENTERPRISE NATIVE AMERICAN GRANT	08/26/19	0	299,991	0	

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description	
ARIZONA	AGRICULTURAL ASSN. INC.	REG	ENTERPRISE NATIVE AMERICAN GRANT	06/13/19	0	0	148,209	This Rural Development investment will be used to provide training and technical assistance to Native American agriculture related businesses, primarily local foods projects.	
ARIZONA	ST. JOHNS, CITY OF	REG	RSCS DEVELOPMENT GRANT	07/25/19	0	23,300	0	This Rural Development investment will be used to prepare a feasibility planning strategy for the City of St. Johns, AZ, to evaluate current trends in local businesses, industry, economic development, and infrastructure. The City would like to create a small business incubator that, if feasible, would create five new positions in the community. The City is also interested in creating a sustainable agricultural education program to serve veterans and create future jobs.	
ARIZONA	STEPS TO RECOVERY HOMES	REG	RSCS ENTERPRISE GRANTS	07/18/19	0	80,000	0	This Rural Development investment will be used to train up to 16 individuals recovering from various substance abuse issues in a Workforce Development Program. Following completion of the program, graduates will be able to work with local businesses to help place the graduates in needed employment.	
ARIZONA	SUNSHINE ORGANICS, LLC	RES	MAND. REVIEW ENERGY SYSTEMS GRANTS	05/08/19	0	19,897	0	0	0
ARIZONA	THRIFTEE SUPER MARKET INC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	03/29/19	0	39,356	0	0	0
ARIZONA	TOLANI LAKE ENTERPRISES, INC.	REG	RSCS ENTERPRISE GRANTS	09/26/19	0	34,690	0	0	0
ARIZONA	TSAH BII KIN CHAPTER	REG	RSCS ENTERPRISE NATIVE AMERICAN GRANT	07/16/19	0	70,000	0	0	0
ARIZONA	VERDE VALLEY REGIONAL ECONOMIC DEV INC	RMAP	DISCRETION ASSIST MICROENTERPRENERS	09/26/19	0	47,442	0	0	0
ARIZONA	WHOLESUM FARMS ARIZONA LLC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	05/17/19	0	48,789	0	0	0
ARIZONA	WILLIAM HOLMAN	RES	MAND. REVIEW ENERGY SYSTEMS GRANTS	04/29/19	0	9,897	0	0	0
ARIZONA	WIRED-UP SYSTEMS LLC	RES	MAND. REVIEW ENERGY SYSTEMS GRANTS	04/29/19	0	18,250	0	0	0
ARIZONA	YUWHELOO PAHRI COMMUNITY	REG	PERSISTENT POVERTY RSCS BUSINESS ENTERPRISE NATIVE AMERICAN GRANT	06/13/19	0	90,000	0	0	0
ARKANSAS	ALLEN, JOSIAH STEPHEN	EEL	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/29/19	0	20,000	0	0	0

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
ARKANSAS	DELTA FARMS OF LAKE CITY, INC.	REAP	REAP-MAIND ENERGY EFF IMPROV GRANTS	09/19/19	0	208,371	0	The Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a new grain dryer system to replace the current dryer facility in Lake City, AR. This project will realize \$17,598 annually in savings, and will replace 125,660 kWh (35.57%) per year, which is enough to power eleven homes. The project will also include the purchase and installation of a new water heating system in developing renewable energy systems, and in making energy-efficiency improvements to other operations.
ARKANSAS	EAST ARKANSAS ENTERPRISE COMMUNITY, INC.	REBO	RECS ENTERPRISE GRANTS	07/22/19	0	126,110	0	This is Rural Development investment will be used to provide technical assistance programs with the purchase and installation of a new 1000 gallon water storage tank for the business planning, financial management and budgeting, business recordkeeping, personnel management and marketing and business audits for new and established businesses in the community. The project will include the purchase and installation of a new computer furnished office space and direct training in the use of computers for business purposes, copiers, fax machines, and other business services designed to help entrepreneurs create 0 small businesses and existing businesses to expand their operations.
ARKANSAS	HUGHES FARM PARTNERSHIP	EEO	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/07/19	0	17,853	0	The Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of electric irrigation motors. Hughes Farm Partnership is a family-owned farming operation in Forrest City, AR that produces cotton and soybeans. This project is a strategic energy project that will replace 18,000 kWh (50.96%) per year, which is enough to power 18 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
ARKANSAS	IMPERIAL UNITED, LLC	BI	GUARANTEED BA 3% FEE LOAN	02/19/19	2,094,000	0	0	EXISTING LOAN THAT WAS USED FOR PURCHASING A 63 ROOM MOTEL LOCATED IN HELENA, ARKANSAS.
ARKANSAS	JAMES, THOMAS D.	RES	MAND. ENERGY SYSTEMS GRANTS UNDER \$20,000	03/07/19	0	18,375	0	The Rural Development investment will be used for the purchase and installation of a 29.4 kW solar array in Wickes, Arkansas. This project will replace 39,460 kWh (82%) per year and realize \$3,870 of annual savings. The purpose of this funding program is to assist small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
ARKANSAS	K&K VETERINARY SUPPLY INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	08/01/19	0	55,770	0	The Rural Development investment will be used for the purchase and installation of a 297.5 kW solar array. K&K Veterinary Supply Inc., a locally-operated farm supply wholesaler in Springfield, AR, will realize \$2,858 per year in savings. This project will replace 372,751 kWh (100%) per year, which is enough to power 373 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their other operations.
ARKANSAS	LUCKY CHICK, INC.	REAP	REAP-MAIND ENERGY EFF IMPROV GRANTS	08/04/19	0	70,070	0	The Rural Development investment will be used to make energy efficiency improvements including new fans, insulation, and heaters, to eight existing poultry houses. Lucky Chick is a family-owned broiler farm operation in Pangham, Ark. This project will realize \$25,396 per year in savings, and will replace 125,660 kWh (35.57%) per year, which is enough to power 39 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
ARKANSAS	MONTAIZ UNITED ENTERPRISE LLC	BI	GUARANTEED BA 3% FEE LOAN	02/19/19	1,148,000	0	0	EXISTING LOAN THAT WAS USED FOR PURCHASING A 63 ROOM MOTEL LOCATED IN HELENA, ARKANSAS.
ARKANSAS	POLSTON, SHARON	EEO	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	02/15/19	0	5,685	0	The Rural Development investment will be used for energy efficiency improvements with the purchase and installation of a new water heating system for the business planning, financial management and budgeting, business recordkeeping, personnel management and marketing and business audits for new and established businesses in the community. The project will include the purchase and installation of a new computer furnished office space and direct training in the use of computers for business purposes, copiers, fax machines, and other business services designed to help entrepreneurs create 0 energy systems, and in making energy-efficiency improvements to their operations.

RBKS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
ARKANSAS	POOLE FAMILY PROPERTIES, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/19/19	0	8,750		<p>This Rural Development investment will be used for the purchase and installation of a 37.5kW solar array expansion to their existing solar system. Poole Family Properties LLC, a family-owned agricultural business in Eudora, Ark., will replace 56,250 kWh (100%) per year in renewable energy systems, and rural small businesses in developing renewable energy systems, and 0 in making energy-efficiency improvements to their operations.</p> <p>This Rural Development investment will be used for the purchase and installation of a 301.9 kW solar array. Post Oak Xing, LLC is a poultry farm consisting of eight broiler houses in Washington County, Ark., which will replace 533,860 kWh (100%) per year in renewable energy systems, and rural small businesses in developing renewable energy systems, and 0 in making energy-efficiency improvements to their operations.</p> <p>This Rural Development investment will be used for the purchase and installation of a 28 kW roof-mounted solar array on a mini-storage facility in Calver, Ark. This project will replace 445,290 kWh (100%) per year in renewable energy systems, and rural small businesses in developing renewable energy systems, and 0 in making energy-efficiency improvements to their operations.</p>
ARKANSAS	POST OAK XING, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	08/01/19	0	117,378		
ARKANSAS	PURPLE MOON PROPERTIES, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	16,340		<p>This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of updated HVAC, doors, windows, insulation and LED lighting fixtures for a wine tasting room. Rusty Tractor Vineyards, LLC operates a winery in Fayetteville, Ark., which will replace 19,328 kWh (85%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and 0 in making energy-efficiency improvements to their operations.</p>
ARKANSAS	RUSTY TRACTOR VINEYARDS, LLC	EEl	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/16/19	0	20,000		<p>This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of updated HVAC, doors, windows, insulation and LED lighting fixtures in a vineyard educational building. Sunset Lake Vineyards, LLC operates a vineyard and winery, with a tasting room and venue for events, that produces 100% of its own wine in Fayetteville, Ark., which will replace 5,077 kWh (49%). The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and 0 in making energy-efficiency improvements to their operations.</p>
ARKANSAS	SUNSET LAKE VINEYARDS, LLC	EEl	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/16/19	0	19,342		
ARKANSAS	SUNSET LODGE, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/18/19	0	20,000		<p>THIS RURAL DEVELOPMENT INVESTMENT WILL BE USED FOR THE PURCHASE AND INSTALLATION OF A 40 KW ROOFTOP SOLAR ARRAY AT A LOCALLY OWNED AND OPERATED LODGE IN THE RURAL PULASKI COUNTY IN ARK. THIS PROJECT WILL REALIZE \$315 PER YEAR IN SAVINGS AND REPLACE 5,300 KWH (100%) ANNUALLY. THE PURPOSE OF THIS INVESTMENT IS TO ASSIST FARMERS, RANCHERS, AND RURAL SMALL BUSINESSES IN DEVELOPING RENEWABLE ENERGY SYSTEMS, AND IN MAKING ENERGY-EFFICIENCY IMPROVEMENTS TO THEIR OPERATIONS.</p> <p>This Rural Development investment will be used for the purchase and installation of an 88.2 kW solar array. The West Haven, Inc. is a community housing organization in De Witt, Ark., which will replace 139,802 kWh (77.4%) per year. which is enough electricity to power 12 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations.</p>
ARKANSAS	THE WEST HAVEN, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/04/19	0	50,000		
ARKANSAS	TIMOTHY COVINGTON FARMS PARTNERSHIP	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/22/19	0	126,403		<p>This Rural Development investment will be used for the purchase and installation of a 306.6 kW solar array. Timothy Covington Farms Partnership, an agricultural producer of rice and soy beans in Pontotoc County, Ark., will realize \$62,580 per year in savings. This project will replace 465,290 kWh (100%) per year in renewable energy systems, and rural small businesses in developing renewable energy systems, and 0 in making energy-efficiency improvements to their operations.</p>

RBKS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
ARKANSAS	TRUCKS POULTRY FARM	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	09/04/19	0	46,193	0	This Rural Development investment will be used to make energy efficiency improvements including new fans, insulation, and heaters to five existing poultry houses. Trucks Poultry Farm is a family-owned broiler farm operation in Loudon Grove, Ark. This project will realize energy efficiency improvements to five existing poultry houses and install solar panels and electricity to power 21 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
ARKANSAS	U OF A WINTHROP ROCKEFELLER INSTITUTE	REG	RBKS DEVELOPMENT GRANT	05/29/19	0	66,300	0	This Rural Development investment will be used to make energy efficiency improvements to the U of A Winthrop Rockefeller Institute building in Fayetteville, Arkansas. The project will provide training, technical assistance, expertise and resources to community leaders in Lonoke, Osburn, Faulkner, and White counties in Arkansas.
ARKANSAS	WILLIAMS & SON FARMS, LLC	EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	09/15/19	0	14,826	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of air fans, insulation, and lighting for five poultry houses. Williams & Son Farms, LLC is a family-owned poultry farm in Folsom, Ark. This project will make energy efficiency improvements to five existing poultry houses and install solar panels and electricity to power 41 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
ARKANSAS	WINROCK INTERNATIONAL INSTITUTE FOR AGRI	REG	RBKS ENTERPRISE GRANTS	07/22/19	0	169,890	0	This Rural Development investment will provide technical assistance in facility site development for an emerging specialty grain crop industry. The project will build upon interest, viability of economic production, infrastructure assessment and related information for the specialty grain crop industry in the Arkansas Delta region, including the counties of western Arkansas, and will evaluate the location, type, economics and servicing of practical, area-specific facilities. Additional funding includes a \$22,000 in-kind contribution from the National Soybean and Grain Alliance.
ARKANSAS	WINROCK INTERNATIONAL INSTITUTE FOR AGRI	DUIT	DELTA HEALTH CARE SERVICES GRANT	04/29/19	0	998,824	0	This Rural Development investment will be used to deliver an opioid and substance abuse prevention and treatment program in the Arkansas Delta region, which is one of the poorest in Arkansas, a region that suffers high rates of opioid overdose deaths and risk factors. Delta Understanding and Preventing Substance and Opioid Abuse in Rural/Delta UPSCAR will provide training, technical assistance, expertise and resources to community leaders in Lonoke, Osburn, Faulkner, and White counties in Arkansas. The project will realize energy efficiency improvements to five existing poultry houses and install solar panels and electricity to power 21 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
CALIFORNIA	3CORE INC.	REG	RBKS ENTERPRISE GRANTS	07/12/19	0	150,000	0	This Rural Development investment will be used to deliver an opioid and substance abuse prevention and treatment program in the Arkansas Delta region, which is one of the poorest in Arkansas, a region that suffers high rates of opioid overdose deaths and risk factors. Delta Understanding and Preventing Substance and Opioid Abuse in Rural/Delta UPSCAR will provide training, technical assistance, expertise and resources to community leaders in Lonoke, Osburn, Faulkner, and White counties in Arkansas. The project will realize energy efficiency improvements to five existing poultry houses and install solar panels and electricity to power 21 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
DISTRICT OF KEYES, INC.	BIOR	BIOR	GUAR BIOREFINERY ASST PROGRAM-VARIABLE RATE	02/07/19	25,000,000	0	0	This Rural Development investment will be used to deliver an opioid and substance abuse prevention and treatment program in the Arkansas Delta region, which is one of the poorest in Arkansas, a region that suffers high rates of opioid overdose deaths and risk factors. Delta Understanding and Preventing Substance and Opioid Abuse in Rural/Delta UPSCAR will provide training, technical assistance, expertise and resources to community leaders in Lonoke, Osburn, Faulkner, and White counties in Arkansas. The project will realize energy efficiency improvements to five existing poultry houses and install solar panels and electricity to power 21 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
DISTRICT OF KEYES, INC.	BIOR	BIOR	GUAR BIOREFINERY ASST PROGRAM-VARIABLE RATE	02/07/19	50,000,000	0	0	This Rural Development investment will be used to deliver an opioid and substance abuse prevention and treatment program in the Arkansas Delta region, which is one of the poorest in Arkansas, a region that suffers high rates of opioid overdose deaths and risk factors. Delta Understanding and Preventing Substance and Opioid Abuse in Rural/Delta UPSCAR will provide training, technical assistance, expertise and resources to community leaders in Lonoke, Osburn, Faulkner, and White counties in Arkansas. The project will realize energy efficiency improvements to five existing poultry houses and install solar panels and electricity to power 21 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
DISTRICT OF KEYES, INC.	BIOR	BIOR	GUAR BIOREFINERY ASST PROGRAM-VARIABLE RATE	02/07/19	50,000,000	0	0	This Rural Development investment will be used to deliver an opioid and substance abuse prevention and treatment program in the Arkansas Delta region, which is one of the poorest in Arkansas, a region that suffers high rates of opioid overdose deaths and risk factors. Delta Understanding and Preventing Substance and Opioid Abuse in Rural/Delta UPSCAR will provide training, technical assistance, expertise and resources to community leaders in Lonoke, Osburn, Faulkner, and White counties in Arkansas. The project will realize energy efficiency improvements to five existing poultry houses and install solar panels and electricity to power 21 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
CALIFORNIA	AGRICULTURE AND LAND-BASED TRAINING	REG	RBKS ENTERPRISE GRANTS	07/12/19	0	40,000	0	This Rural Development investment will be used to provide training and technical assistance in Salinas Valley area to assisting farmers to strengthen the Agriculture of the Central Coast. Number of jobs expected to be created 6 or saved 12.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
CALIFORNIA	ALAMO FARMS	REAP	REAP MANDATORY RENEW ENERGY SYSTEMS	07/22/19	0	250,000	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Alamo Farms is a family operation which started in 1969. Alamo Farms has been successful in growing its business and has been able to pay off its debt. The project will be used for the purchase of a 1.48MW solar array to offset electrical costs for business operations. This project will realize \$320,750 per year in savings, and will replace 0.22233881 MW per year, which is enough electricity to power 274 homes.
	CALIFORNIA ALVAREZ BROTHERS, LLC	BI	BUSINESS & INDUSTRY GUARANTEED LOAN - 1%	08/26/19	4,200,000	0	0	
	CALIFORNIA AP HOTEL GROUP, LLC	BI	GUARANTEED 84% 3% FEE LOAN	04/16/19	7,155,500	0	0	
	ARCATA ECONOMIC DEVELOPMENT CORP.	RMAP	DISC RURAL MICROENTERPRISE DEV ORG	06/09/19	0	0	400,000	
	ARCATA ECONOMIC DEVELOPMENT CORP.	RMAP	MAND RURAL MICROENTERPRISE DULP ORG GRANTS	06/09/19	0	100,000	0	
	ARCATA ECONOMIC DEVELOPMENT CORP.	IRP	INTERMEDIARY RELENDING PROGRAM	06/05/19	0	0	1,000,000	
	CALIFORNIA ATIP FOUNDATION	RREG	RBGS ENTERPRISE GRANTS	07/12/19	0	75,000	0	
TEXAS	ATIP FOUNDATION	RBOG	RBGS DEVELOPMENT GRANT	07/12/19	0	58,347	0	The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Bar 717 Ranch, Inc. is doing business as Camp Trinity which is a summer youth camp organization with various facilities including lodges, cabins, and a dining hall. The project will be used for the purchase of a 18MW solar array to offset electrical costs and supply power to the aforementioned facilities. This project will realize \$2,516 per year in savings, and will replace 0.0003881 MW per year, which is enough electricity to power 0.47 homes.
CALIFORNIA	BAR 717 RANCH, INC.	RES	MAND RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/19/19	0	15,250	0	
CALIFORNIA	BAY AREA HOUSING CORPORATION	BI	GUARANTEED 84% 3% FEE LOAN	12/21/18	640,000	0	0	
CALIFORNIA	BLUEBERRIES OLEI LLC	RES	MAND RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/26/19	0	17,336	0	

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
CALIFORNIA	BUTTE COUNTY OF CALIFORNIA C. K. AND LILA HANSEN, INC.	REG BI	RSCS ENTERPRISE GRANTS GUARANTEED 8% 3% FEE LOAN	07/12/19 05/09/19	2,500,000	0	25,000 0	This Rural Development investment will be used for a study to examine the extent of energy needs in the Butte County area and to determine the extent of energy supplies lost to ag producers and other former users. Butte County and the surrounding region, especially the town of Paradise, have been hard-hit by this unprecedented and historical drought.
CALIFORNIA	CALIF. STATEWIDE CERT. DEV. CALIFORNIA CORP	REG	RSCS ENTERPRISE GRANTS	07/12/19	0	55,000	0	The Rural Development investment will be used to assist with the feasibility assessment development and implementation of technology to increase and improve access to capital to small businesses. Serving 23 Counties in California, Coda would be 100 jobs created or retained.
CALIFORNIA	CALIFORNIA CENTER FOR COOPERATIVE DEV.	RCOG	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/05/19	0	200,000	0	Rural Development funds will be used to improve the economic conditions of rural areas in California. The funds will be used to provide technical assistance to rural areas in California, including but not limited to: providing technical assistance with rural housing cooperatives addressing some idiosyncratic issues, promoting jobs and wealth creation through home care cooperatives and assist 0 farmer groups cooperatively purchasing and owning the distribution companies.
CALIFORNIA	CALIFORNIA CENTER FOR COOPERATIVE DEV.	SDPG	SMALL SOCIALLY DISADVANTAGED PRODUCER GRANT	09/06/19	0	175,000	0	Rural Development funds will be used to provide technical assistance to cooperatives who are comprised of socially disadvantaged individuals. Services include delivering cooperative development training, and conducting feasibility studies, and financial technical assistance to rural areas in California. The funds will be used to provide technical assistance to microentrepreneurs and microenterprises that are located within the Micro Development Organization's (MDO's) service area. Technical assistance will be available to applicants, including but not limited to: providing technical assistance with rural housing cooperatives addressing some idiosyncratic issues, promoting jobs and wealth creation through home care cooperatives and assist 0 their Rural Microloan Revolving Loan Fund.
CALIFORNIA	CALIFORNIA FARMLINK	RMAP	MAND RURAL MICROENTERPRISE DVP ORG GRANTS	09/24/19	0	81,505	0	THIS REFERENCE WILL IMPROVE BUSINESS CASH FLOW AND ASSIST WITH THE RETENTION OF JOBS IN THIS SMALL RURAL COMMUNITY.
CALIFORNIA	CHESTER REAL ESTATE LLC	BI	GUARANTEED 8% 3% FEE LOAN	09/26/19	2,972,000	0	0	
CALIFORNIA	CHICO STATE ENTERPRISES	REG	RENEWABLE ENERGY DEVP ASSISTANCE GRANTS	03/27/19	0	50,000	0	The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy system improvements to their operations. Project funds will be used to conduct approximately 26 renewable energy site assessments in the Sacramento Valley region. The funds will be used to provide technical assistance to rural areas in California, including but not limited to: providing technical assistance with rural housing cooperatives addressing some idiosyncratic issues, promoting jobs and wealth creation through home care cooperatives and assist 0 their Rural Microloan Revolving Loan Fund.
CALIFORNIA	COLUSA COUNTY PARTNERSHIP	RMAP	MAND RURAL MICROENTERPRISE DVP ORG GRANTS	09/26/19	0	11,726	0	The CSU Chico Center for Economic Development together with multiple partners throughout the Central Sacramento Valley will utilize the \$50,000 investment from USDA to provide renewable energy development assistance to rural agricultural producers and microentrepreneurs and microenterprises that are located within the Micro Development Organization's (MDO's) service area. Technical assistance will be available to applicants, including but not limited to: providing technical assistance with rural housing cooperatives addressing some idiosyncratic issues, promoting jobs and wealth creation through home care cooperatives and assist 0 their Rural Microloan Revolving Loan Fund.
CALIFORNIA	COLUSA COUNTY PARTNERSHIP	REG	RSCS ENTERPRISE GRANTS	07/17/19	0	71,000	0	This Rural Development investment will be used to provide technical assistance to Colusa County businesses in the areas of business planning, business development, and business management. The project will be managed by the Colusa County Partnership in close cooperation with the Lake County Economic Development Corporation. Number of jobs expected to be created 5 or saved 20.
CALIFORNIA	COUNTY OF TEHAMA	REG	RSCS ENTERPRISE GRANTS	07/12/19	0	40,000	0	This Rural Development investment will be used to conduct feasibility study to determine if the existing Red Butte Community Center commercial kitchen is marketable as a community kitchen and business incubator for residents of Red Butte and other areas of Tehama County.

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
CALIFORNIA	CSUF FOUNDATION	REEG	RECS ENTERPRISE GRANTS	07/12/19	0	40,000		This Rural Development investment will be used to provide technical assistance training to 100 small businesses in Kern County, CA. The project will also be used to support the professional growth and business development of ten local businesses in the City of Taft, Kern County, CA. A total of 10 jobs will be created or saved.
CALIFORNIA	DAVID SANTOS FARMING	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/23/19	0	235,350		This Rural Development investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. David Santos Farming is a family operation since 1970. The farm employs 45 full-time employees and grows and processes organic produce. The project will be used to purchase a 568kW solar array to offset electrical costs for business operations. This project will realize \$118,207 per year in savings, and will replace 864,232MWh per year.
CALIFORNIA	DAVID SANTOS FARMING	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/23/19	0	235,350		This Rural Development investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. David Santos Farming is a family operation since 1970. The farm employs 45 full-time employees and grows and processes organic produce. The project will be used to purchase a 568kW solar array to offset electrical costs for business operations. This project will realize \$118,207 per year in savings, and will replace 864,232MWh per year.
CALIFORNIA	DAVIS, DARROLD LANE	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/29/19	0	9,216		This Rural Development investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Darrold Lane Davis Farms Inc. in Maxwell, CA, Project will be used to purchase a 1.5 MW solar array to offset electrical costs for business operations. This project will realize \$5,189 per year in savings, and will replace 22,104 MWh per year.
CALIFORNIA	DEMOCRACY AT WORK INSTITUTE	RCDD	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/09/19	0	200,000		This Rural Development investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Democracy at Work Institute, a 501(c)(3) nonprofit, will be used to purchase a 1.5 MW solar array to offset electrical costs for business operations. This project will realize \$5,189 per year in savings, and will replace 22,104 MWh per year.
CALIFORNIA	DEMOCRACY AT WORK INSTITUTE	SSDPG	SMALL SOCIALLY DISADVANTAGED PRODUCER GRANT	09/09/19	0	175,000		This Rural Development investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Democracy at Work Institute, a 501(c)(3) nonprofit, will be used to purchase a 1.5 MW solar array to offset electrical costs for business operations. This project will realize \$5,189 per year in savings, and will replace 22,104 MWh per year.
CALIFORNIA	DR. HALLEY MOORE ENTERPRISES, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/11/19	0	12,624		This Rural Development investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Dr. Halley Moore Enterprises, Inc. is a Psychologist who uses equine assisted therapy to treat patients at Rolling Hills Ranchette in Templeton, CA. The project will be used to purchase a 1.5 MW solar array to offset electrical costs for business operations. This project will realize \$5,189 per year in savings, and will replace 22,104 MWh per year.
CALIFORNIA	ECONOMIC DEVELOPMENT & FINANCING CORP.	REEG	RECS ENTERPRISE GRANTS	07/12/19	0	20,000		This Rural Development investment will be used to provide training and technical assistance, specifically business planning consulting, market research and service improvements. This project will increase the access to concrete market planning, and zoning assistance for small businesses in Mendocino County. The project will create a minimum of 2 new businesses creating more jobs. Expected that this tool will help create minimum of 2 new businesses in Mendocino County and at least 20 new jobs created.
CALIFORNIA	ECONOMIC DEVELOPMENT & FINANCING CORP.	RMAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/24/19	0	6,292		This Rural Development investment will be used to provide training and technical assistance, specifically business planning consulting, market research and service improvements. This project will increase the access to concrete market planning, and zoning assistance for small businesses in Mendocino County. The project will create a minimum of 2 new businesses creating more jobs. Expected that this tool will help create minimum of 2 new businesses in Mendocino County and at least 20 new jobs created.
CALIFORNIA	FEED THE HUNGER FOUNDATION	RMAP	MAND. RURAL MICROENTERPRISE DVP ORG GRANTS	09/25/19	0	87,788		This Rural Development investment will be used to grow the borrower's existing Rural Microloan Revolving Loan Fund program. The project will also be used to provide training and technical assistance to small businesses in California and Hawaii and use the Rural Microloan Revolving Loan Fund program. This fund will help at least one rural business and create one and save one rural job.
CALIFORNIA	FIVE H DAIY BOGAS LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/24/19	0	237,050		This Rural Development investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to purchase and install a biogas conditioning system and boiler for use with an existing dairy anaerobic digester to generate biogas. The project will realize \$118,207 per year in savings, and will replace 864,232MWh per year.

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
CALIFORNIA	FOOTHILL REAL ESTATE ENTERPRISE LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/10/19	0	7,250		This Rural Development investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Foothill Real Estate Enterprise, LLC is a mini self-storage facility located in the town of Yuba City, Stanislaus County, CA. The new solar array will be used for the purchase of a 7.5kW solar array to offset electrical costs and supply power to business operations. This project will realize \$2,840 per year in savings, and will replace 0.11133 kWh per year, which is enough electricity to power 1.5 homes.
		RMAP	MAND RURAL MICROENTERPRISE DVP ORG GRANTS	09/25/19	0	34,028		This Rural Development investment will be used to provide Technical Assistance (TA) to rural micro-entrepreneurs and microenterprises that have received or are seeking one or more USDA Rural Microenterprise Assistance (RMA) grants. The borrower's business is a family owned vineyard, mandarin orchard, and a small rural law firm. The funds will help Stanislaus, Merced, Fresno, Kings, Tulare and Kern Counties. This funds will help 0 at least one rural business and create one and save one rural jobs.
	CALIFORNIA FRESNO COMMUNITY DEVELOPMENT	REEG	RSCS ENTERPRISE GRANTS	07/12/19	0	60,000		The Rural Development investment will be used to expand the tools used to reach our primary target audience of rural micro-entrepreneurs and microenterprises. Strategic planning and is in support of a rural business incubator. The incubator is located in an opportunity zone and will work closely with SCORE, Inc. on this new tool to encourage entrepreneurship and economic development. The incubator will be used to increase commerce and jobs in Glenn County. Initial efforts have resulted in creation of 600 net new 0 jobs.
		REEG	RSCS ENTERPRISE GRANTS	07/12/19	0	115,000		This Rural Development investment will be used to develop commercially viable use of no low-value biomass from California's forests for the purposes of creating rural prosperity & job creation, mitigating the risks of wildfires, and protecting the environment.
	CALIFORNIA GREAT NORTHERN CORP	REEG	RSCS ENTERPRISE GRANTS	07/16/19	0	51,000		This Rural Development investment will be used to provide direct, targeted technical assistance to administer USDA Rural Microenterprise Assistance Program (RMAP)and training for the development or expansion of small and emerging private businesses in rural areas which will employ ten or fewer new employees and have less than \$1 million in gross revenue. The project will be used for the purchase of a 30kW solar array located in Colusa County. Estimated 0 that the program will create 7 jobs and retain 3 jobs.
		RMAP	MAND RURAL MICROENTERPRISE DVP ORG GRANTS	09/25/19	0	12,792		0
	CALIFORNIA GUNROCK LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/10/19	0	17,250		This Rural Development investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Gunrock LLC operates a rice farm in Yuba County near the town of Nicholas, CA. Project funds will be used for the purchase of a 30kW solar array to offset electrical costs and supply power to business operations. This project will realize \$7,292 per year in savings, and will replace 47.798 kWh per year, which is enough electricity 0 to power 6 homes
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/11/19	0	19,973		This Rural Development investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Marsha Habib operates a family owned organic vegetable farm. Project funds will be used for the purchase of a 27 kW solar array to offset electrical costs and supply power to water well pumps for land irrigation. The project will realize \$111 and replace 46,594 kWh per year, which is enough electricity to power 5.1 homes.
	CALIFORNIA HOFFMAN, KIRKMAN J	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/12/19	0	20,000		This Rural Development investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Hoffman, Kirkman J operates a family owned vineyard, mandarin orchard, and a small rural law firm. Project funds will be used for the purchase of a 31 kW solar array to offset electrical costs and supply power to water well pumps for land irrigation. The project will realize \$7,292 per year in savings, and will replace 51,182 kWh per year, which is enough electricity to power 6.9 0 homes.

RBKS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
CALIFORNIA	INDIAN DISPUTE RESOLUTION SERVICES INC. INDIPE ENERGY DEVELOPMENT, CALIFORNIA, LLC	REG	REG- ENTERPRISE NATIVE AMERICAN GRANT	07/12/19	0	63,392	0	This Rural Development investment will be used to provide training and technical assistance in microenterprise and small business skills development to entrepreneurs living on 0 reservations.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/18/19	0	98,750	0	This Rural Development loan guarantee will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. IP Malbec, LLC is a newly created entity for the purposes of this project. The project will be used to provide training and technical assistance to entrepreneurs in microenterprise and small business skills development to entrepreneurs living on 0 reservations.
	CALIFORNIA IP MALBEC, LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	09/17/19	1,900,000	0	0	This Rural Development loan guarantee will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. IP Malbec, LLC is a newly created entity for the purposes of this project. The project will be used to provide training and technical assistance to entrepreneurs in microenterprise and small business skills development to entrepreneurs living on 0 reservations.
		RES	MAND- RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/25/19	0	20,000	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. JS Johl & Sons, Inc. is a family owned tree nut farm located in the Sierra Nevada mountains of California. The project will be used to purchase a 147.55kW solar array to offset electrical costs for business operations. This project will realize \$58,479 per year in savings, and will replace 227,739 kWh per year, which is enough electricity to power 28.1 homes.
CALIFORNIA	LAKE COUNTY BORT RESPONSE TEAM	REG	RBKS ENTERPRISE GRANTS	07/18/19	0	125,000	0	This Rural Development investment will be used to provide technical assistance to small businesses in the areas of business planning, business development, access to capital, cash flow management, marketing, and overall business management. The project will be used to provide training and technical assistance to entrepreneurs in microenterprise and small business skills development to entrepreneurs living on 0 service providers. Number of jobs expected to be created 5 or saved 20.
		RES	MAND- RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/10/19	0	13,701	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will be used to purchase a 15.4kW solar array to offset electrical costs for business operations. This project will realize \$3,122 per year in savings, and will replace 22,970 kWh per year, which is enough electricity to power 2.8 homes.
	CALIFORNIA LITTLE, SHARON REINEE	RES	MAND- RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/05/19	0	9,314	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Sharon Reinee Little runs a family owned cattle ranch. Project funds will be used for the purchase of a 8 kW solar array to supply power to a new cattle. This project will realize \$5,350 per year in savings, and will replace 13,718 kWh per year, which is enough electricity to power 1.5 homes.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/11/19	0	81,445	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Loggatt, Inc. is a family owned gas station/minimarket businesses located in the Mojave Desert. Project funds will be used for the purchase of a 10kW solar array to supply power to a new cattle. This project will realize \$44,107 per year in savings, and will replace 350,000 kWh per year, which is enough electricity to power 44.3 homes.
CALIFORNIA	LOLONE FAMILY VINEYARDS AND WINERY, INC	RES	MAND- RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/28/19	0	12,766	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Lolone Family Vineyards and Winery, Inc. has been a family operation for over 100 years. Project funds will be used for the purchase of a 18kW solar array to supply power to a new cattle. This project will realize \$3,122 per year in savings, and will replace 37,880 kWh per year, which is enough electricity to power 4.2 homes.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
CALIFORNIA	LOMA LINDA VINEYARDS, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/12/19	0	25,410	0	<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Loma Linda Vineyards, LLC is a family style vineyard and winery located in Loma Linda, CA. The project will be used to purchase a 30kW solar array and a 30kW solar array to offset electrical costs and supply power for business operations. This project will realize \$16,403 per year in savings, and will replace 38,584 kWh per year, which is enough electricity to power 7.2 homes.</p> <p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Loma Seca, LLC is a 3rd generation family owned 30-acre vineyard located in Loma Linda, CA. The project will be used to purchase a 18kW solar array and a 18kW solar array to offset electrical costs and supply power for avocados tree irrigation. This project will realize \$4,193 per year in savings, and will replace 29,742 kWh per year, which is enough electricity to power 3.7 homes.</p> <p>Acquisition by an experienced operator of an existing fueling station/store and commercial 0 lease facility that supports the local rural community and traveling public.</p>
CALIFORNIA	LOMA SECA, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/12/19	0	20,000	0	<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Moonshine Dairy operates a large dairy farm near Crows Landing, CA. Project funds will be used for the purchase of a refrigeration heat recovery system and a 20kW solar array to offset electrical costs and supply power for business operations for cleaning and sanitizing the dairy. This project will realize \$27,759 per year in savings, and will replace 422,716 kWh per year.</p> <p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Moonshine Dairy operates a large dairy farm near Crows Landing, CA. Project funds will be used for the purchase of a refrigeration heat recovery system and a 20kW solar array to offset electrical costs and supply power for business operations for cleaning and sanitizing the dairy. This project will realize \$27,759 per year in savings, and will replace 422,716 kWh per year.</p> <p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Moonshine Dairy operates a large dairy farm near Crows Landing, CA. Project funds will be used for the purchase of a refrigeration heat recovery system and a 20kW solar array to offset electrical costs and supply power for business operations for cleaning and sanitizing the dairy. This project will realize \$27,759 per year in savings, and will replace 422,716 kWh per year.</p>
CALIFORNIA	MOONSHINE DAIRY	EEl	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/10/19	0	19,864	0	<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Moonshine Dairy operates a large dairy farm near Crows Landing, CA. Project funds will be used for the purchase of a refrigeration heat recovery system and a 20kW solar array to offset electrical costs and supply power for business operations for cleaning and sanitizing the dairy. This project will realize \$27,759 per year in savings, and will replace 422,716 kWh per year.</p> <p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Moonshine Dairy operates a large dairy farm near Crows Landing, CA. Project funds will be used for the purchase of a refrigeration heat recovery system and a 20kW solar array to offset electrical costs and supply power for business operations for cleaning and sanitizing the dairy. This project will realize \$27,759 per year in savings, and will replace 422,716 kWh per year.</p> <p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Moonshine Dairy operates a large dairy farm near Crows Landing, CA. Project funds will be used for the purchase of a refrigeration heat recovery system and a 20kW solar array to offset electrical costs and supply power for business operations for cleaning and sanitizing the dairy. This project will realize \$27,759 per year in savings, and will replace 422,716 kWh per year.</p>
CALIFORNIA	MOUNTAIN VIEW BARBEQUE	RES	MAND- RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/24/19	0	20,000	0	<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Mountain View Barbecue is a family style restaurant located in Morro Bay, CA. This is a family style restaurant draws customers from a vast rural area. Project funds will be used for the purchase of a 28kW solar array to offset electrical costs and supply power for business operations. This project will realize \$27,759 per year in savings, and will replace 45,001 kWh per year, which is enough electricity to power 5.3 homes.</p>
CALIFORNIA	NORTH COAST OPPORTUNITIES, INC.	REEG	RBGS ENTERPRISE GRANTS	07/12/19	0	50,000	0	<p>This Rural Development investment will be used to support and provide targeted TAs, training, and other activities that lead to new development or expansion of small and emerging private businesses in rural areas. The food hub will be paying a feasibility study to determine the viability of a food hub in the area. The food hub will be used to develop a development of small farm and retail businesses in Mendocino & Lake Counties.</p>
CALIFORNIA	OCEANIC MORRO BAY LP	BI	GUARANTEED BI&I 3% FEE LOAN	05/20/19	4,875,000	0	0	<p>This Rural Development loan guarantee investment will be to purchase of a 32-room lodging facility located in Morro Bay, CA which is commonly known as Asot Inn at the Rock. This is a family style restaurant draws customers from a vast rural area. Project funds will be used for the purchase of a 28kW solar array to offset electrical costs and supply power for business operations. This project will realize \$27,759 per year in savings, and will replace 45,001 kWh per year, which is enough electricity to power 5.3 homes.</p>
CALIFORNIA	OCEANIC SLO LP	BI	GUARANTEED BI&I 3% FEE LOAN	06/28/19	5,720,000	0	0	<p>This is a rate and term refinance for an existing SBA loan. Lender and USDA fee is to be repaid with loan proceeds.</p>
CALIFORNIA	PLEASURE POINT MARINA, LLC	BI	GUARANTEED BI&I 3% FEE LOAN	03/29/19	2,230,000	0	0	<p>This Rural Development investment will be used to support and provide targeted TAs, training, and other activities that lead to new development or expansion of small and emerging private businesses in rural areas. The food hub will be paying a feasibility study to determine the viability of a food hub in the area. The food hub will be used to develop a development of small farm and retail businesses in Mendocino & Lake Counties.</p>
CALIFORNIA	PLYMOUTH, CITY OF	REEG	RBGS ENTERPRISE GRANTS	07/15/19	0	20,000	0	<p>This Rural Development investment will be used to support and provide targeted TAs, training, and other activities that lead to new development or expansion of small and emerging private businesses in rural areas. The food hub will be paying a feasibility study to determine the viability of a food hub in the area. The food hub will be used to develop a development of small farm and retail businesses in Mendocino & Lake Counties.</p>
CALIFORNIA	QUEEN HOSPITALITY, INC.	BI	GUARANTEED BI&I 3% FEE LOAN	11/20/18	5,137,000	0	0	<p>This PROJECT INVOLVES THE PURCHASE OF AN EXISTING 98-ROOM BEST WESTERN HOTEL IN A VACANT LAND FOR FUTURE EXPANSION AND FINANCE 0 CLOSING COSTS.</p>

RRCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
CALIFORNIA	ROPLAST INDUSTRIES, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/12/19	0	198,375	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Roplast Industries, Inc. is a manufacturer of plastic bags and other agricultural products. The investment will be used to assist the company in the purchase of a 3.5MW solar array to offset electrical costs for business operations. This project will realize \$85,678 per year in savings, and will replace 549.219kWh per year, which is enough electricity to power 67.7 homes.
								This Rural Development loan guarantee will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. RP Napa Solar 1, LLC is a newly created entity for the purposes of generating electricity in Napa County, CA. The funds will be used for the purchase of a 1.5MW solar array to offset electrical costs for business operations. This project will realize \$100,000 per year in savings, and will replace 625,000 kWh per year, which is enough electricity to power 492 homes.
	CALIFORNIA RP NAPA SOLAR 1, LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	08/12/19	4,500,000	0	0	Funds will be used to provide financing to RCAC to re-lend to business and for community development purposes. The system is estimated to produce 3,991,000 kWh per year, which is enough electricity to power 492 homes.
				09/06/19	0	0	1,000,000	The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The investment will be used for strategic plan for rural development that will identify and analyze business opportunities that will use local rural materials or human resources, etc. in Sonoma County, City of Guerneville, CA. The region has been hit with wildfires, and the investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region.
	RUSSIAN RIVER CHAMBER OF COMMERCE	RREG	RREG ENTERPRISE GRANTS	07/12/19	0	50,000	0	Purchase of an existing hospitality facility that will prevent the loss of employment opportunities and create new jobs.
				05/20/19	9,950,000	0	0	The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region.
	CALIFORNIA SBK/INNS OF AMERICA, INC	BI	GUARANTEED BI&I 3% FEE LOAN					The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region.
								The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region.
	CALIFORNIA SAMRA & SONS, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/11/19	0	125,419	0	Funds will be used for the purchase of a 250kW solar array to offset electrical costs for business operations. This project will realize \$100,000 per year in savings, and will replace 625,000 kWh per year, which is enough electricity to power 492 homes.
				12/19/18	8,175,000	0	0	The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region.
	CALIFORNIA TERNERO FARMS	VAPG	VALUE-ADDED PRODUCER DVP GRANTS-OSCR	02/01/19	0	250,000	0	The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region.
								The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region.
CALIFORNIA	TRIO EQUIPMENT COMPANY	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/10/19	0	19,140	0	The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region.
								The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region.
	CALIFORNIA ULTIMATE INVESTORS, LLC	BI	GUARANTEED BI&I 3% FEE LOAN	07/15/19	8,172,000	0	0	The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region.
CALIFORNIA	VALLEY SMALL BUSINESS DEVELOP CORPORATIO	RMAP	MAND RURAL MICROENTERPRISE DVP ORG GRANTS	09/24/19	0	89,626	0	The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region.
								The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region. The investment will be used to assist the community in the recovery and reconstruction of the region.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
CALIFORNIA	WRK, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/15/19	0	20,000	0	This Rural Development Investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. WRK, LLC is a family owned 60-acre avocado orchard located in the Central Valley of California. The project will be used to assist the borrower in purchasing a 1.28kW solar array to offset electrical costs and supply power for avocado tree irrigation. This project will realize \$10,392 per year in savings, and will replace 41,275 kWh of power per year, which is enough electricity to power 5.1 homes.
COLORADO	BAR D SOLAR, LLC	BI	GUARANTEED B&I 3% FEE LOAN	10/22/18	4,200,000	0	0	This Rural Development Investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. BAR D SOLAR, LLC is a family owned 60-acre avocado orchard located in the Central Valley of California. The project will be used to assist the borrower in purchasing a 1.28kW solar array to offset electrical costs and supply power for avocado tree irrigation. This project will realize \$10,392 per year in savings, and will replace 41,275 kWh of power per year, which is enough electricity to power 5.1 homes.
COLORADO	CAMPBELL, LINDA	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	11,103	0	This Rural Development Investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. CAMPBELL, LINDA is a family owned 60-acre avocado orchard located in the Central Valley of California. The project will be used to assist the borrower in purchasing a 1.28kW solar array to offset electrical costs and supply power for avocado tree irrigation. This project will realize \$10,392 per year in savings, and will replace 41,275 kWh of power per year, which is enough electricity to power 5.1 homes.
COLORADO	GARYER BREWING COMPANY, INC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	10,710	0	This Rural Development Investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. GARYER BREWING COMPANY, INC is a family owned 60-acre avocado orchard located in the Central Valley of California. The project will be used to assist the borrower in purchasing a 1.28kW solar array to offset electrical costs and supply power for avocado tree irrigation. This project will realize \$10,392 per year in savings, and will replace 41,275 kWh of power per year, which is enough electricity to power 5.1 homes.
ARIZONA	CATAPULT DESIGN	REEG	RBGS ENTERPRISE NATIVE AMERICAN GRANT	06/26/19	0	22,240	0	This Rural Development Investment will be used to design and launch a searchable online directory of Native American businesses and organizations. The goal is to help sustain and strengthen these businesses by enabling them to acquire new customers.
COLORADO	CITY OF GLENWOOD SPRINGS	REEG	RBGS ENTERPRISE GRANTS	05/17/19	0	50,000	0	This Rural Development Investment will be used to establish a revolving loan fund within the boundaries of the City of Glenwood Springs, Colorado. The fund is going to focus on assisting small businesses with updating the fire suppression systems within their buildings, but will also be available for working capital or equipment loans.
COLORADO	COLORADO COMMUNITY FUND	REEG	RBGS ENTERPRISE GRANTS	05/15/19	0	20,000	0	This Rural Development Investment will be used to establish a revolving loan fund within the boundaries of the City of Glenwood Springs, Colorado. The fund is going to focus on assisting small businesses with updating the fire suppression systems within their buildings, but will also be available for working capital or equipment loans.
COLORADO	COURTNEY KING STUDIOS, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/22/19	0	17,881	0	This Rural Development Investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. COURTNEY KING STUDIOS, LLC is a family owned 60-acre avocado orchard located in the Central Valley of California. The project will be used to assist the borrower in purchasing a 1.28kW solar array to offset electrical costs and supply power for avocado tree irrigation. This project will realize \$10,392 per year in savings, and will replace 41,275 kWh of power per year, which is enough electricity to power 5.1 homes.
COLORADO	FIRST SOUTHWEST BANK	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/28/19	0	4,897	0	This Rural Development Investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. FIRST SOUTHWEST BANK is a family owned 60-acre avocado orchard located in the Central Valley of California. The project will be used to assist the borrower in purchasing a 1.28kW solar array to offset electrical costs and supply power for avocado tree irrigation. This project will realize \$10,392 per year in savings, and will replace 41,275 kWh of power per year, which is enough electricity to power 5.1 homes.
COLORADO	FIRST SOUTHWEST COMMUNITY FUND	REEG	RBGS ENTERPRISE GRANTS	07/20/19	0	25,558	0	This Rural Development Investment will be used to establish a revolving loan fund within the boundaries of the City of Glenwood Springs, Colorado. The fund is going to focus on assisting small businesses with updating the fire suppression systems within their buildings, but will also be available for working capital or equipment loans.
COLORADO	FIRST SOUTHWEST COMMUNITY FUND	REEG	RBGS ENTERPRISE GRANTS	05/15/19	0	25,000	0	This Rural Development Investment will be used to establish a revolving loan fund within the boundaries of the City of Glenwood Springs, Colorado. The fund is going to focus on assisting small businesses with updating the fire suppression systems within their buildings, but will also be available for working capital or equipment loans.
COLORADO	GIORESTE II, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/15/19	0	128,000	0	This Rural Development Investment will be used to establish a revolving loan fund within the boundaries of the City of Glenwood Springs, Colorado. The fund is going to focus on assisting small businesses with updating the fire suppression systems within their buildings, but will also be available for working capital or equipment loans.
COLORADO	HISPEEDAU, INC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	08/07/19	0	250,000	0	This Rural Development Investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. HISPEEDAU, INC is a family owned 60-acre avocado orchard located in the Central Valley of California. The project will be used to assist the borrower in purchasing a 1.28kW solar array to offset electrical costs and supply power for avocado tree irrigation. This project will realize \$10,392 per year in savings, and will replace 41,275 kWh of power per year, which is enough electricity to power 5.1 homes.
COLORADO	KW FARMS	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	10,382	0	This Rural Development Investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. KW FARMS is a family owned 60-acre avocado orchard located in the Central Valley of California. The project will be used to assist the borrower in purchasing a 1.28kW solar array to offset electrical costs and supply power for avocado tree irrigation. This project will realize \$10,392 per year in savings, and will replace 41,275 kWh of power per year, which is enough electricity to power 5.1 homes.
COLORADO	MCQB, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/31/19	0	8,556	0	This Rural Development Investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. MCQB, LLC is a family owned 60-acre avocado orchard located in the Central Valley of California. The project will be used to assist the borrower in purchasing a 1.28kW solar array to offset electrical costs and supply power for avocado tree irrigation. This project will realize \$10,392 per year in savings, and will replace 41,275 kWh of power per year, which is enough electricity to power 5.1 homes.
COLORADO	NEURISSE, DARWIN	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	19,297	0	This Rural Development Investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. NEURISSE, DARWIN is a family owned 60-acre avocado orchard located in the Central Valley of California. The project will be used to assist the borrower in purchasing a 1.28kW solar array to offset electrical costs and supply power for avocado tree irrigation. This project will realize \$10,392 per year in savings, and will replace 41,275 kWh of power per year, which is enough electricity to power 5.1 homes.
COLORADO	NEURISSE, DARWIN	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/22/19	0	8,879	0	This Rural Development Investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. NEURISSE, DARWIN is a family owned 60-acre avocado orchard located in the Central Valley of California. The project will be used to assist the borrower in purchasing a 1.28kW solar array to offset electrical costs and supply power for avocado tree irrigation. This project will realize \$10,392 per year in savings, and will replace 41,275 kWh of power per year, which is enough electricity to power 5.1 homes.

RCS FY2019 Obligations									
State	Borrower or Grantee	Program	Program Description	Date Origined	Quarantined Loan Amount	Grant Amount	Direct Loan Amount	Project Description	Notes
COLORADO	NORTH PARK SUPERS, LLC	EEl	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/15/19	0	16,969		Q&A Super, LLC is the only grocery store located in and Washington County, Colorado. The new location is very close to the town of Pagosa Springs, Colorado. One of the most populated counties in western Colorado. The project will install a complete replacement of all inefficient lighting and fixtures with new energy efficient LED lights and fixtures. The project is estimated to save the applicant \$7,294.00 per year in savings. The project is estimated to save the applicant 8.6 homes. Project is estimated to save the applicant \$11,388 annually.	The Rural Development investment will provide for a area wide survey of the smaller towns and develop a master plan for each small town to help them attract small businesses. Rural Development funds will be used to assist incorporating 5 new cooperatives, create 17 new jobs, and create a new manufacturing plant. Service area will cover rural areas in Colorado, New Mexico and Wyoming.
		EEl	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/15/19	0	11,260		Q&A Super, LLC is the only grocery store located in and Washington County, Colorado. The new location is very close to the town of Pagosa Springs, Colorado. One of the most populated counties in western Colorado. The project will install a complete replacement of all inefficient lighting and fixtures with new energy efficient LED lights and fixtures. The project is estimated to save the applicant \$7,294.00 per year in savings. The project is estimated to save the applicant 8.6 homes. Project is estimated to save the applicant \$11,388 annually.	
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/30/19	0	7,955		Q&A Super, LLC is the only grocery store located in and Washington County, Colorado. The new location is very close to the town of Pagosa Springs, Colorado. One of the most populated counties in western Colorado. The project will install a complete replacement of all inefficient lighting and fixtures with new energy efficient LED lights and fixtures. The project is estimated to save the applicant \$7,294.00 per year in savings. The project is estimated to save the applicant 8.6 homes. Project is estimated to save the applicant \$11,388 annually.	
		REG	RECS DEVELOPMENT GRANT	05/31/19	0	36,000		Q&A Super, LLC is the only grocery store located in and Washington County, Colorado. The new location is very close to the town of Pagosa Springs, Colorado. One of the most populated counties in western Colorado. The project will install a complete replacement of all inefficient lighting and fixtures with new energy efficient LED lights and fixtures. The project is estimated to save the applicant \$7,294.00 per year in savings. The project is estimated to save the applicant 8.6 homes. Project is estimated to save the applicant \$11,388 annually.	
	ROCKY MT FARMERS UNION	RCOD	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/23/19	0	200,000		Q&A Super, LLC is the only grocery store located in and Washington County, Colorado. The new location is very close to the town of Pagosa Springs, Colorado. One of the most populated counties in western Colorado. The project will install a complete replacement of all inefficient lighting and fixtures with new energy efficient LED lights and fixtures. The project is estimated to save the applicant \$7,294.00 per year in savings. The project is estimated to save the applicant 8.6 homes. Project is estimated to save the applicant \$11,388 annually.	The Rural Development investment will provide for a area wide survey of the smaller towns and develop a master plan for each small town to help them attract small businesses. Rural Development funds will be used to assist incorporating 5 new cooperatives, create 17 new jobs, and create a new manufacturing plant. Service area will cover rural areas in Colorado, New Mexico and Wyoming.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/20/19	0	49,845		Q&A Super, LLC is the only grocery store located in and Washington County, Colorado. The new location is very close to the town of Pagosa Springs, Colorado. One of the most populated counties in western Colorado. The project will install a complete replacement of all inefficient lighting and fixtures with new energy efficient LED lights and fixtures. The project is estimated to save the applicant \$7,294.00 per year in savings. The project is estimated to save the applicant 8.6 homes. Project is estimated to save the applicant \$11,388 annually.	
		REG	RECS ENTERPRISE GRANTS	06/15/19	0	30,000		Q&A Super, LLC is the only grocery store located in and Washington County, Colorado. The new location is very close to the town of Pagosa Springs, Colorado. One of the most populated counties in western Colorado. The project will install a complete replacement of all inefficient lighting and fixtures with new energy efficient LED lights and fixtures. The project is estimated to save the applicant \$7,294.00 per year in savings. The project is estimated to save the applicant 8.6 homes. Project is estimated to save the applicant \$11,388 annually.	
		EEl	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/26/19	0	12,783		Q&A Super, LLC is the only grocery store located in and Washington County, Colorado. The new location is very close to the town of Pagosa Springs, Colorado. One of the most populated counties in western Colorado. The project will install a complete replacement of all inefficient lighting and fixtures with new energy efficient LED lights and fixtures. The project is estimated to save the applicant \$7,294.00 per year in savings. The project is estimated to save the applicant 8.6 homes. Project is estimated to save the applicant \$11,388 annually.	
	SAN JUAN VALLEY LOCAL FOODS COALITION	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/26/19	0	106,597		Q&A Super, LLC is the only grocery store located in and Washington County, Colorado. The new location is very close to the town of Pagosa Springs, Colorado. One of the most populated counties in western Colorado. The project will install a complete replacement of all inefficient lighting and fixtures with new energy efficient LED lights and fixtures. The project is estimated to save the applicant \$7,294.00 per year in savings. The project is estimated to save the applicant 8.6 homes. Project is estimated to save the applicant \$11,388 annually.	
		EEl	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/15/19	0	7,928		Q&A Super, LLC is the only grocery store located in and Washington County, Colorado. The new location is very close to the town of Pagosa Springs, Colorado. One of the most populated counties in western Colorado. The project will install a complete replacement of all inefficient lighting and fixtures with new energy efficient LED lights and fixtures. The project is estimated to save the applicant \$7,294.00 per year in savings. The project is estimated to save the applicant 8.6 homes. Project is estimated to save the applicant \$11,388 annually.	
CONNECTICUT	WIGGINS SUPERS, LLC	EEl	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/15/19	0	10,019		Wiggins Supers, LLC is located in north eastern Colorado and is the only grocery store within 25 miles. They are replacing all their inefficient 18 and 115 light fixtures at this time with new efficient LED fixtures. This project is estimated to reduce their annual electrical bill by \$3,047 per year. The project is estimated to reduce their annual electricity usage of 0.431 homes and is estimated to reduce their energy bill by \$5,339 annually.	The Rural Development investment will be used to support the implementation of a Pilot project "Access to Agriculture with CT Rural Transit: Putting Local Healthy Food on the Map". The project will support the integration of rural agriculture producers and healthy food products into the local food system. The project is estimated to support the local food system and is estimated to support the local food system. The project is estimated to support the local food system and is estimated to support the local food system.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	10,019		Wiggins Supers, LLC is located in north eastern Colorado and is the only grocery store within 25 miles. They are replacing all their inefficient 18 and 115 light fixtures at this time with new efficient LED fixtures. This project is estimated to reduce their annual electrical bill by \$3,047 per year. The project is estimated to reduce their annual electricity usage of 0.431 homes and is estimated to reduce their energy bill by \$5,339 annually.	
	ANGELINE FARM, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/11/19	0	14,728		Wiggins Supers, LLC is located in north eastern Colorado and is the only grocery store within 25 miles. They are replacing all their inefficient 18 and 115 light fixtures at this time with new efficient LED fixtures. This project is estimated to reduce their annual electrical bill by \$3,047 per year. The project is estimated to reduce their annual electricity usage of 0.431 homes and is estimated to reduce their energy bill by \$5,339 annually.	
		REG	RECS ENTERPRISE GRANTS	07/18/19	0	53,000		Wiggins Supers, LLC is located in north eastern Colorado and is the only grocery store within 25 miles. They are replacing all their inefficient 18 and 115 light fixtures at this time with new efficient LED fixtures. This project is estimated to reduce their annual electrical bill by \$3,047 per year. The project is estimated to reduce their annual electricity usage of 0.431 homes and is estimated to reduce their energy bill by \$5,339 annually.	

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
CONNECTICUT	CONNECTICUT RCLD AREA, INC. REAR	REAP	REAP ENERGY AUDIT RECIPIENT	03/22/19	0	88,000	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to conduct approximately 20 energy audits for rural small businesses & agricultural producers throughout the state of Connecticut.
	CONNECTICUT EARTH'S PALATE FARM LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/11/19	0	13,722	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to conduct approximately 20 energy audits for rural small businesses & agricultural producers throughout the state of Connecticut. This Rural Development investment will be used for the purchase and installation of a 12.81 kW solar array. This project will realize \$3,412 per year in savings and will replace 18,428 kWh (88.65%) per year, which is enough electricity to power 1.52 homes.
	CONNECTICUT ELM FARM LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/30/19	0	29,475	0	This Rural Development investment will be used for the purchase and installation of a 12.81 kW solar array. This project will realize \$3,412 per year in savings and will replace 18,428 kWh (88.65%) per year, which is enough electricity to power 1.52 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	CONNECTICUT EPIC FARM LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/30/19	0	34,034	0	This Rural Development investment will be used for the purchase and installation of a 12.81 kW solar array. This project will realize \$3,412 per year in savings and will replace 18,428 kWh (88.65%) per year, which is enough electricity to power 1.52 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	CONNECTICUT HARDSCRABBLE LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/30/19	0	48,195	0	This Rural Development investment will be used for the purchase and installation of a 12.81 kW solar array. This project will realize \$3,412 per year in savings and will replace 18,428 kWh (88.65%) per year, which is enough electricity to power 1.52 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	CONNECTICUT MICHAEL'S GREENHOUSES INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/30/19	0	106,860	0	This Rural Development investment will be used for the purchase and installation of a 12.81 kW solar array. This project will realize \$3,412 per year in savings and will replace 18,428 kWh (88.65%) per year, which is enough electricity to power 1.52 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	CONNECTICUT (MS) LLC	BI	GUARANTEED BI 3% FEE LOAN	07/29/19	7,500,000	0	0	This Rural Development loan guarantee investment will be used to provide permanent, long-term financing for the purchase and installation of a 240kW solar array. The system will produce 31,000 kWh annually, offsetting 455% of the historical energy used by the farm, or enough to power 2 homes.
	NORFOLK INDUSTRIES LLC DBA	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/30/19	0	19,825	0	This Rural Development loan guarantee investment will be used to provide \$7,500,000 in financing to support high wage technical manufacturing firm located in rural CT.
	CONNECTICUT SEITZ LLC	BI	GUARANTEED BI 3% FEE LOAN	03/22/19	2,500,000	0	0	This Rural Development loan guarantee investment will be used to provide \$7,500,000 in financing to support high wage technical manufacturing firm located in rural CT.
	CONNECTICUT SEITZ LLC	BI	GUARANTEED BI 3% FEE LOAN	03/22/19	5,000,000	0	0	This Rural Development loan guarantee investment will be used to provide \$7,500,000 in financing to support high wage technical manufacturing firm located in rural CT.
CONNECTICUT	SHAGBARK LUMBER & FARM SUPPLIES INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/30/19	0	49,982	0	This Rural Development investment will be used for the purchase and installation of a hybrid 47.7kW roof mounted solar array with a 10-ton direct use geothermal system to offset the needs electrical heating & cooling. Shagbark will realize \$8,657 per year in savings, and will replace 208,287 kWh per year. This project will save enough energy to power 19 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
CONNECTICUT	STEADFAST FARMS LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/11/19	0	7,791		Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 2.4 kW solar array. The project will realize \$865 per year in savings and will replace 4,705 kWh (100%) per year, which is enough electricity to power 1.36 homes.
	CONNECTICUT SUN ONE ORGANIC FARM, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/11/19	0	6,650		Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 3.24 kW solar array. This project will realize \$865 per year in savings and will replace 4,200 kWh (90.04%) per year, which is enough electricity to power 0.42 homes.
	THE ARC NEW LONDON COUNTY, CONNECTICUT INC.	REBG	RSCS ENTERPRISE GRANTS	07/29/19	0	62,000		Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 2.4 kW solar array. This project will realize \$865 per year in savings and will replace 4,200 kWh (90.04%) per year, which is enough electricity to power 0.42 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
DELAWARE	ASA PROPERTIES, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/20/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a 20.46 kW solar array. ASA Properties, a family-owned and operated senior care facility, will realize \$5,183 per year in savings and will replace 35,144 kWh (97.62%) per year. This project will save enough electricity to power 3 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	BAVISE EXTENSORS, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/12/19	0	8,202		This Rural Development investment will be used for the purchase and installation of a 20.46 kW solar array. Bayside Extensors, a family-owned and operated senior care facility, will realize \$5,183 per year in savings and will replace 35,144 kWh (97.62%) per year. This project will save enough electricity to power 3 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
DELAWARE	CAREY FARMS, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/15/19	0	93,750		This Rural Development investment will be used for the purchase and installation of a 20.46 kW solar array. Carey Farms, Inc., a family-owned poultry farm, will realize \$38,570.72 per year in savings and will replace 482,134 kWh (100%) per year. This project will save enough electricity to power 11 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	COLLINS, LEROY	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/23/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a 20.46 kW solar array. Collins, Leroy, a family-owned poultry farm, will realize \$9,317 per year in savings and will replace 130,074 kWh (93%) per year. This project will save enough electricity to power 12 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
DELAWARE	CSC AUTO CENTER, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/15/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a 20.46 kW solar array. CSC Auto Center, LLC, a family-owned poultry farm, will realize \$9,317 per year in savings and will replace 130,074 kWh (93%) per year. This project will save enough electricity to power 12 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
DELAWARE	KENT ECONOMIC PARTNERSHIP	REGO	RBGS DEVELOPMENT GRANT	07/29/19	0	20,000	0	This Rural Development Investment will be used to fund a Feasibility Study on the East Kent truck freight capacity in Kent County, Delaware. The study will provide recommendations on establishing a preferred set of improvements for east-west truck freight and explore infrastructure improvements as a component of the study. The study will be completed by the end of the fiscal year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing energy systems and in making energy-efficiency improvements to their operations.
DELAWARE	KHS HOLDINGS LLC/MD SOUTH AUDIO LLC	BI	GUARANTEED BAI 3% FEE LOAN	05/09/19	2,300,000	0	0	0
DELAWARE	LOMAS PROPERTIES LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/24/19	0	15,298	0	This Rural Development Investment will be used for the purchase and installation of a 28.2 kW roof-mounted solar array. Lomas Properties (Crescentville Motel) operates as a motel in Kent County, Delaware. The project will save enough electricity to power 3 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing energy systems and in making energy-efficiency improvements to their operations. Additional funding for this project includes an applicant contribution of \$43,886 for a total project cost of \$61,184.
DELAWARE	OTWELL WILLIAM R.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/29/19	0	67,500	0	This Rural Development Investment will be used for the purchase and installation of a 142.59 kW roof-mounted solar array. Awtain Farm is a family owned poultry farm which will realize \$14,500.32 per year in savings, and will replace 193,933 kWh (50%) per year. This project will save enough electricity to power 18 homes. The purpose of this funding program is to assist farmers, ranchers and rural small businesses in developing renewable energy systems and in making energy-efficiency improvements to their operations.
DELAWARE	PENNELL VINCENT DONALD	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/16/19	0	121,555	0	This Rural Development Investment will be used for the purchase and installation of a 281.4 kW solar array. The project will realize \$21,334.48 in savings, and will replace 397,208 kWh (100%) per year. This project will save enough electricity to power 35 homes. The purpose of this funding program is to assist farmers, ranchers and rural small businesses in developing renewable energy systems and in making energy-efficiency improvements to their operations.
DELAWARE	REM FARMS, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/04/19	0	23,196	0	This Rural Development Investment will be used for the purchase and installation of a 455.5 kW roof-mounted solar array. REM Farms, LLC a family owned poultry farm will realize \$15,747 per year in savings, and will replace 202,457 kWh (100%) per year. This project will save enough electricity to power 15 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy-efficiency improvements to their operations.
DELAWARE	SKOTTA JR, WILLIAM F.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/17/19	0	120,978	0	This Rural Development Investment will be used for the purchase and installation of a 277.2 kW solar array. Tri-Oak Farms, Inc. is an agricultural producer that specializes in poultry will realize \$21,334.48 in savings, and will replace 313,742 kWh (75%) per year. This project will save enough electricity to power 15 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy-efficiency improvements to their operations.
DELAWARE	TRI-OAK FARMS INC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/16/19	0	75,805	0	This Rural Development Investment will be used for the purchase and installation of a 168.4 kW solar array. Tri-Oak Farms, Inc. is a family owned grain and watermelon farm, will realize \$15,747 per year in savings, and will replace 202,457 kWh (100%) per year. This project will save enough electricity to power 15 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy-efficiency improvements to their operations.
DELAWARE	TRUE ACCESS CAPITAL CORPORATION	RMAP	DISCRETION ASSIST MICROENTERPRENERS	09/29/19	0	42,254	0	0

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
FLORIDA	GULF BOYNTON BEACH, LLC	BI	GUARANTEED BAI 3% FEE LOAN	07/26/19	1,500,000	0	0	Rural Development loan guarantee funds will be used to purchase and installation of equipment needed due to a project re-design. OBI is a hydroponic facility in Boynton Beach Florida. This is a subsequent loan needed because of a project re-design. OBI will greatly benefit from the loan needed to purchase and install the equipment needed to expand the capacity. This will result in increased production on a smaller land scale. The area of 0 Boynton Beach will benefit from the 22 plots that will be created for the area.
FLORIDA	HENDRY COUNTY SCHOOL DISTRICT	REG	RSCS ENTERPRISE GRANTS	07/25/19	0	436,334		Rural Development funds will be used to purchase HVAC Equipment for a Workforce Development Project. This project is located in Clewiston, FL in Hendry County. Hendry County has a significant unemployment rate and a need for specialized workforce. These funds will assist the small and emerging businesses with workers that are specialized 0 and prepared to meet the demands for HVAC and Electronics in Hendry County, FL.
FLORIDA	HIEBERT, DARREN	EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/02/19	0	4,397		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of an aerosol oxygen sensor to the fish farm. Feeding nursery fish and shrimp is a labor intensive task and the current system is inefficient. The project will assist the farm in making energy efficiency improvements to the feeding system and will replace 21,613 per kWh (50%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
FLORIDA	HIEBERT, STEVEN K	EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/02/19	0	15,071		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a solar powered oxygen monitoring system to 3 catfish ponds. The project will assist the farm in making energy efficiency improvements to the oxygenation system and will replace 66,973 kWh (35%) per year which will save \$8,857 per year in savings and will replace 66,973 kWh (35%) per year which is enough electricity to power 6 horses. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
FLORIDA	HYDENRIDER AND COMPANY LLC	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/21/19	0	2,500		This Rural Development investment will be used for the purchase and installation of a 2.61 kW solar panels and irrigation solar well pump for the farm. Hydenerider & Company is a commercial nursery and landscape business located in the rural area of the state. The project will assist the farm in making energy efficiency improvements to the irrigation system and will replace 4,706 kWh (51 percent) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
FLORIDA	L & W VENISON, LLC	REAP	REAP-MAND-ENERGY EFF IMPROV GRANTS	07/02/19	0	37,338		This Rural Development investment will be used to make energy efficiency improvements with the purchase of cooler and heaters to their operations by upgrading the slaughter house. The project will assist the farm in making energy efficiency improvements to the slaughter house and will replace 31,308 kWh (62 percent) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
FLORIDA	LIVING COLORS NURSERY, INC.	RIGAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/26/19	0	123,975		Rural Development investment will be used for the purchase and installation of a 174 kW roof mounted solar PV system. Living Colors Nursery Inc. is a nursery firm, will realize energy efficiency improvements to their operations by installing solar panels and will realize enough electricity to power 22 horses. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

RBCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
FLORIDA	LYNNWOOD SUITES, LLC	BI	GUARANTEED BA 3% FEE LOAN	11/28/18	10,000,000	0	0	Rural Development loan guarantees funds will be used for the purchase of a 5-level, 85-room hotel and food service facility located on 5.0 acres zoned for commercial use, Highway 16, Fanning Springs, Ochsleight County, Florida. The hotel site is ideally situated for a hotel since there are reportedly 2.4 million visitors to the immediate area and the closest major airport is only 10 minutes away. The hotel is currently under construction and once the hotel is complete, the company will employ 31 fulltime employees from the local area. As a result of this loan, the company will provide much needed hotel accommodations for the local area. This project will create 35 jobs for the city of Napier, Florida.
	MAIN STREET DEFINAK SPRINGS INC.	RBQG	RECS DEVELOPMENT GRANT	07/30/19	0	85,000	0	
	MUMC OF TAMPA, LLC	BI	GUARANTEED BA 3% FEE LOAN	01/28/19	7,420,000	0	0	
FLORIDA	NATURE COAST DEVELOPMENT GROUP, LLC	BI	GUARANTEED BA 3% FEE LOAN	10/30/18	9,800,000	0	0	Rural Development loan guarantees funds will be used for the purchase and installation of a new 12 bed CFHDI facility on 2.27 acres of property in the 12th Judicial Circuit, Miami-Dade County, Florida. The facility is located on a 5.0 acres zoned for commercial use, Highway 16, Fanning Springs, Ochsleight County, Florida. The hotel site is ideally situated for a hotel since there are reportedly 2.4 million visitors to the immediate area and the closest major airport is only 10 minutes away. The hotel is currently under construction and once the hotel is complete, the company will employ 31 fulltime employees from the local area. As a result of this loan, the company will provide much needed hotel accommodations for the local area. This project will create 35 jobs for the city of Napier, Florida.
FLORIDA	NEW VISION EYE CENTER, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/19/19	0	34,360	0	Rural Development investment will be used for the purchase and installation of a new 12 bed CFHDI facility on 2.27 acres of property in the 12th Judicial Circuit, Miami-Dade County, Florida. The facility is located on a 5.0 acres zoned for commercial use, Highway 16, Fanning Springs, Ochsleight County, Florida. The hotel site is ideally situated for a hotel since there are reportedly 2.4 million visitors to the immediate area and the closest major airport is only 10 minutes away. The hotel is currently under construction and once the hotel is complete, the company will employ 31 fulltime employees from the local area. As a result of this loan, the company will provide much needed hotel accommodations for the local area. This project will create 35 jobs for the city of Napier, Florida.
FLORIDA	POCKETT WEAPONRY SERVICE, INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	19,897	0	Rural Development investment will be used for the purchase and installation of a new 12 bed CFHDI facility on 2.27 acres of property in the 12th Judicial Circuit, Miami-Dade County, Florida. The facility is located on a 5.0 acres zoned for commercial use, Highway 16, Fanning Springs, Ochsleight County, Florida. The hotel site is ideally situated for a hotel since there are reportedly 2.4 million visitors to the immediate area and the closest major airport is only 10 minutes away. The hotel is currently under construction and once the hotel is complete, the company will employ 31 fulltime employees from the local area. As a result of this loan, the company will provide much needed hotel accommodations for the local area. This project will create 35 jobs for the city of Napier, Florida.
FLORIDA	REGIONAL PROPERTIES INC.	BI	GUARANTEED BA 3% FEE LOAN	10/30/18	1,102,000	0	0	Rural Development loan guarantees funds will be used for the purchase of a 5-level, 85-room hotel and food service facility located on 5.0 acres zoned for commercial use, Highway 16, Fanning Springs, Ochsleight County, Florida. The hotel site is ideally situated for a hotel since there are reportedly 2.4 million visitors to the immediate area and the closest major airport is only 10 minutes away. The hotel is currently under construction and once the hotel is complete, the company will employ 31 fulltime employees from the local area. As a result of this loan, the company will provide much needed hotel accommodations for the local area. This project will create 35 jobs for the city of Napier, Florida.

RBCS FY2019 Obligations

Borrower or Grantee	State	Program	Program Description	Date Origined	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
SARASOTA GROWERS INC.	FLORIDA	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/20/19	0	48,704		The Rural Development investment will be used to purchase and installation of a 72.15 kW solar array system at the grower's facility. The project will generate approximately 112,293 kWh per year in savings, and will replace 112,293 kWh (100%), which is enough electricity to power 10 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
SUNSHINE PENAUT COMPANY, INC.	FLORIDA	BI	GUARANTEED B&I 3% FEE LOAN	01/28/19	3,000,000	0		Rural Development loan guarantees funds will be used to expand their peanut butter manufacturing and packaging production line by purchasing new equipment, increasing sales, and expanding their distribution network. The borrower has received a USDA Farm Credit Company purchase price premium from local suppliers in Florida and Georgia. The peanuts are roasted, ground and packaged. Packages sizes range from individual single ounce bags to bulk quantities ranging from 25 pounds to over 2 million pounds of production per year. This project will create 20 jobs for the community.
THE LASER INVESTMENT GROUP LLC	FLORIDA	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/21/19	0	\$4,671		The Rural Development investment will be used for the purchase and installation of a 211 MW solar PV system. The Laser Investment Group, LLC is a newly created entity, \$203.00 kWh per year, which is enough electricity to power 28 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
1115 N COLUMBIA AVE LLC	GEORGIA	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/08/19	0	2,856		The Rural Development investment will be used for the purchase and installation of a 4.5 MW solar array on the business property of 1115 N Columbia Ave LLC. This project will replace 6,405 kWh (7%) per year, and will realize \$1,178 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
AUGUSTA TECHNICAL COLLEGE	GEORGIA	REG	AUGUST ENTERPRISE GRANTS	06/20/19	0	137,974		The Rural Development investment will be used to construct a new Holiday Inn Express in Vidalia, Georgia.
AUGUSTA TECHNICAL COLLEGE	GEORGIA	REG	AUGUST ENTERPRISE GRANTS	06/20/19	0	44,753		The Rural Development investment will be used for the purchase and installation of 50 MW solar PV system at the College's campus located at 1000 West Peachtree Street NW, near Brasel Collins Road, Tallmadge County, Georgia. The project will replace \$1,555 kWh per year, which is enough electricity to power seven homes, and will realize \$8,154 in savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
BAL GOPAL HOSPITALITY, LLC	GEORGIA	BI	GUARANTEED B&I 3% FEE LOAN	11/13/18	5,674,000	0		The Rural Development investment will be used to construct a medical office building in Haynesville, NC for the implementation of a Behavioral Health Intensive Outpatient Program (BH-IOP) for patients with mental health issues. The proposed site is located in Haynesville, North Carolina. The proposed site for the new medical facility will be in Clay County, NC. Clay County has a below average rate of general practitioners in comparison with the state and surrounding counties. Current Clay County does not have medical specialists such as Psychiatrists, Psychologists, or Child and Adolescent Psychiatrists. Patients must travel to surrounding counties, sometimes to two hours, to reach a major medical facility for hospitalization or treatment. The current medical facility in Clay County is the Haynesville Community Center, which was built in 1974 and is currently being used as a day care center with a small staff of 5. The REDLG funds will allow change to add eight (8) FTEs with the recruitment of additional clinical personnel for their Haynesville Family Practice. These jobs represent 2 full-time physicians and practitioners, 3 medical assistants and 3 office personnel.
BILLY COLLINS FARMS	GEORGIA	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/25/19	0	24,875		
BLUE RIDGE MOUNTAIN EMC	REDUG (ELECTRIC)	REDUG (ELECTRIC)	RURAL ECONOMIC DEVELOPMENT LOANS	06/04/19	0	0	2,000,000	

RBKS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
GEORGIA	CEDAR RIDGE POULTRY FARM INC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/28/19	0	47,700		<p>This Rural Development investment will be used for the purchase and installation of a 72.37 kW solar energy replacement system for Cedar Ridge Poultry Farm, on the farm a property at 314 Canal Bridge Rd, Eastanolis, Franklin County, Georgia. This project will replace existing solar panels on the farm with new solar panels. The project will cost approximately \$12,872 in savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
GEORGIA	COASTAL AREA DIST DEVELOPMENT AUTH	IRP	INTERMEDIARY RELENDING PROGRAM	04/04/19	0	0	1,000,000	<p>This Rural Development investment will be used to create a third revolving loan fund for Coastal Area District Development Authority (CADA). Loans will be made to farmers, ranchers, and rural small businesses in the counties of Appling, Chatham, Glynn, Long, McIntosh, Ware, Wayne, Tatam and Coffee counties in GA. Eligible Ultimate recipients may be individuals, public or private organizations, or other legal entities, with the purpose of providing financial assistance to eligible rural counties in the intermediate servicing area and must be unable to finance the proposed project from its own resources or through commercial credit or other Federal, State, or local government sources. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
GEORGIA	COASTAL PINES TECH COLLEGE	RREG	RECS ENTERPRISE GRANTS	06/21/19	0	27,784		<p>Rural Development funds will be used to purchase equipment for establishment of a new lab for the Neuromuscular Massage Therapy program at the Maycross campus. Program participants will be trained in the use of the equipment and will be able to provide the service to become a licensed Massage Therapist. Ware, Clinch & Bacon counties in the service area are persistent poverty counties.</p>
GEORGIA	COLLINS BEN	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/14/19	0	19,875		<p>This Rural Development investment will be used for the purchase and installation of a 22.5 kW solar array on the poultry farm of Ben Collins in Collins, GA. This project will replace 62,000 kWh (65%) per year, which is enough electricity to power five homes, and will realize \$7,444 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
GEORGIA	CORNELIA CITY OF	RREG	RECS ENTERPRISE GRANTS	06/21/19	0	99,990		<p>Relocation of power lines for safety reasons. Demolishing the existing parking area and expanding it to add approximately twenty (20) new parking spaces as well as ADA compliant restrooms. The project will be used to purchase and install new lighting & landscaping to creating a more inviting & walkable atmosphere for the existing and future businesses along the Alley. Planter for ornamental trees and trash receptacles will complete the project.</p>
GEORGIA	CURTIS DAVIS FAMILY FARM, LLC	EEL	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/22/19	0	19,832		<p>This Rural Development investment will be used to make energy efficiency improvements with the replacement of a diesel to electric irrigation motor. This project will realize \$11,290.50 per year in savings and will save the equivalent of 97,300 kWh of electricity per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
GEORGIA	DAIMORE CORPORATION	BI	GUARANTEED BAIL 3% FEE LOAN	03/29/19	5,000,000	0		<p>This Rural Development loan guarantee investment will be used to construct a 17,000 square foot Japanese restaurant at 245 Gateway Drive, Bethlehem Georgia. The project is a new start-up business at this location. The general vicinity of the project is a developing area and is located on Highway 161, which is a four-lane road to GA 316 and is just south of Windsor Oaks. The site is approximately 1.37 acres.</p>

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
GEORGIA	DAVENPORT TRANSPORTATION INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/14/19	0	19,823		This Rural Development investment will be used for the purchase and installation of a 34.8 kW solar array on the property of Davenport Transportation Inc. in Blainville, GA. This project will replace 62,640 kWh (83%) per year, which is enough electricity to power five homes. The project will also be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
GEORGIA	DONALSONVILLE DOWNTOWN DEVELOPMENT AUTH.	REG	RBGS ENTERPRISE GRANTS	05/09/19	0	59,899		This Rural Development investment will be used by the Donalsonville Downtown Development Authority (DDA) to purchase and install a 100 kW solar array on the property of the DDA. The building used as a small business incubator was occupied by Fort Porch Market and 16 other vendors. The building is a historical building and suffered damage from Hurricane Michael. The DDA will supplement the grant funds with other funds to complete the project. The project will replace 100,000 kWh (83%) per year, which is enough electricity to power 10 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
GEORGIA	DOWN TO EARTH CONSTRUCTION & EQUIP SALES	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/08/19	0	19,860		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting throughout the interior of the plant. This project will realize \$20,302 per year in savings, and will replace 228,098 kWh (73%) per year, which is enough electricity to power 23 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
GEORGIA	DOWN TO EARTH CONSTRUCTION & EQUIP SALES	EEI	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/08/19	0	20,000		This Rural Development investment will be used to purchase and install solar panels on the RV Park of Fairview Farms, Inc. in Keller, GA. This project will realize 49,499 kWh (%) per year, which is enough electricity to power five homes, and will realize \$5,918 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
GEORGIA	FAIRVIEW FARMS INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/25/19	0	19,875		This Rural Development investment will be used for the purchase and installation of a 15 kW solar array on the property of Fairview Farms, Inc. in Keller, GA. This project will realize 23,168 kWh (83%) per year, which is enough electricity to power two homes, and will realize \$3,072 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
GEORGIA	FAMILY VISION CARE	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/09/19	0	10,560		This Rural Development investment will be used for the purchase and installation of a 25kW AC solar energy generation system for Fort Gaines Solar, LLC, on the company's property in Clay County, Georgia. This project will generate \$28,997 kWh per year, which is enough electricity to power 3 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
GEORGIA	FORT GAINES SOLAR, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/10/19	0	150,000		This Rural Development investment will be used to make energy efficiency improvements with the replacement of a diesel to electric irrigation motor. This project will realize \$13,276 per year in savings, and will save the equivalent of 246,453 kWh of electricity per year (81%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
GEORGIA	GAY, JEFFERY LEE	EEI	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/09/19	0	19,863		This Rural Development investment will be used to purchase and install solar panels on the property of Gay, Jeffery Lee. This project will generate 49,499 kWh (%) per year, which is enough electricity to power five homes, and will realize \$5,918 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
GEORGIA	GIFFCOSHUPA, LLC	BI	GUARANTEED BAI 3% FEE LOAN	10/31/18	10,000,000	0		This Rural Development investment will be used to purchase and install solar panels on the property of Giffcoshupa, LLC. This project will generate 49,499 kWh (%) per year, which is enough electricity to power five homes, and will realize \$5,918 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
GEORGIA	GREENFIELD INSTITUTE	RREG	RBGS ENTERPRISE GRANTS	06/21/19	0	\$5,000		The Rural Development investment will be used to fund direct small business consulting with small and emerging businesses in Sumnerville, GA. Funds will support workshops that target widespread needs for rural entrepreneurs, including technology for businesses, business plan development, and business growth. The project will also provide direct consulting to small businesses that is tailored to the specific needs of that business owner. Topics include developing and updating business plans, identifying sources of capital, identifying ways to reduce business expenses, conducting specialized research, and marketing strategies. The project will also provide technical assistance to small businesses, assist them in reducing business expenses by thorough and efficient technological practices, allowing businesses to retain competitive pricing so that the people that live in Sumnerville will be able to afford the goods and services they need. Seven jobs will be created and three jobs will be saved from the funding of the project.
GEORGIA	HIGHLAND INVESTMENT ELLUAY, LLC	BI	GUARANTEED 84% 3% FEE LOAN	07/23/19	1,450,000	0	0	
GEORGIA	HILL LOGGING, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/25/19	0	108,524		The Rural Development investment will be used to purchase a new B&DIT Model 2590 Chipper. The investment will be used on their property at 3849 Highway 101, near the intersection of Highway 101 and Highway 102, to replace the old chipper. The new chipper will have a capacity of 129,472 MWh, which is the equivalent of enough electricity to power 1,688 homes, and will realize \$794,738 of net income per year. The purpose of this funding program is to assist businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
GEORGIA	HOGANSVILLE DOWNTOWN DEVELOPMENT AUTHORITY	RREG	RBGS ENTERPRISE GRANTS	06/21/19	0	200,000		The Rural Development investment will be used to restore the Royal Theater in downtown Hogansville, Georgia. The project will benefit the small and emerging businesses downtown area.
GEORGIA	HOLBERT, JOHN	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/08/19	0	40,000		This Rural Development investment will be used for the purchase and installation of an 84 kW solar energy replacement system for John Holbert, on the property at 1058 Oak Grove Road, Hogansville, Georgia. The project will replace the old solar system with a new one, which is enough electricity to power thirteen homes, and will realize \$16,710 in savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
GEORGIA	HIGHLAND BROTHERS LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/08/19	0	30,000		This Rural Development investment will be used for the purchase and installation of a 64.3 kW solar energy replacement system for Highland Brothers LLC, on the property at 18388 GH Hwy 23, Reidsville, Georgia. The project will replace 102,366 kWh per year of electricity with renewable energy, which is enough electricity to power thirteen homes, and will realize \$16,710 in savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
GEORGIA	IN HER SHOES, INC	RBOG	RBGS DEVELOPMENT GRANT	06/21/19	0	20,901		The Rural Development investment will be used to train adults for job placement in local food production businesses and support the need for labor by small producers. The project will create and implement a training program for adults in food handling, processing, packaging and storage and value added food production practices to support local food producers, and to provide training and technical labor to increase participation among producers to sustain the project.
GEORGIA	JONES NORTH GEORGIA POULTRY, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/26/19	0	35,445		This Rural Development investment will be used for the purchase and installation of a 84.5 kW solar energy replacement system for Jones North Georgia Poultry, on the property at 2721 Family Farm Way, Tunnel Hill, Whitfield County, Georgia. This project will replace 133,660 MWh per year, which is enough electricity to power twelve homes, and will realize \$14,520 in savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
GEORGIA	KESHAV HOSPITALITY INVESTMENTS LLC	BI	GUARANTEED BAI 3% FEE LOAN	09/16/19	9,550,000	0	0	This Rural Development loan guarantee investment will be used to fund the construction of a 0 83-room interior corridor Springfield Suites by Marriott in Richmond Hill, GA.
GEORGIA	LANIER COLOR COMPANY	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/09/19	0	74,033	0	This Rural Development investment will be used for the purchase and installation of a 995 Atlanta Hwy SW, Gainesville, Hall County, Georgia. This project will replace 231,534 kWh per year, which is enough electricity to power twenty-seven homes, and will realize \$22,471 in savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
GEORGIA	LESTER & LESTER ENTERPRISES, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/09/19	0	17,287	0	This Rural Development investment will be used for the purchase and installation of a 2734 Mableton Ave, Marietta, Cobb County, Georgia. This project will replace 50,112 kWh per year, which is enough electricity to power four homes, and will realize \$7,018 of income per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
GEORGIA	UNICOLA COUNTY	REEG	RBGS ENTERPRISE GRANTS	06/25/19	0	98,500	0	This Rural Development investment will be used for the purchase and installation of a 1 miw Cow energy generation system for alternative power in the company's property in Locust Grove, GA. This project will generate 1,581,300 kWh per year, which is enough electricity to power 146 homes, and will realize \$73,843 in income per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
GEORGIA	MINERVAWORKS, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/03/19	0	250,000	0	This Rural Development investment will be used for the purchase and installation of a 44 kW Educational Simulator weaslee & 1 Augmented Arc Controller/Batter to link the systems together to assist in further strengthening the skills of students in the Welding and Joining Technology classes.
GEORGIA	MOUNT VENTURE FARMS LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/14/19	0	19,875	0	This Rural Development investment will be used for the purchase and installation of a 44 kW Educational Simulator weaslee & 1 Augmented Arc Controller/Batter to link the systems together to assist in further strengthening the skills of students in the Welding and Joining Technology classes.
GEORGIA	OGEECHEE TECHNICAL COLLEGE	REEG	RBGS ENTERPRISE GRANTS	09/21/19	0	97,189	0	This Rural Development investment will be used to make energy efficiency improvements in broader poultry houses at her farm. On The Edge Farm, in Ellijay, GA. This project will realize \$5,453 per year in savings, and will reduce electric usage by 53,466 kWh (25%), or enough electricity to power 3 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
GEORGIA	ON THE EDGE FARM, LLC	EEL	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/08/19	0	2,942	0	This Rural Development investment will be used for the purchase and installation of a 35 kW Educational Simulator weaslee & 1 Augmented Arc Controller/Batter to link the systems together to assist in further strengthening the skills of students in the Welding and Joining Technology classes.
GEORGIA	PATTEN SEED COMPANY PR2 FOODS, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/25/19	0	39,627	0	This Rural Development investment will be used for the purchase and installation of a 35 kW Educational Simulator weaslee & 1 Augmented Arc Controller/Batter to link the systems together to assist in further strengthening the skills of students in the Welding and Joining Technology classes.
GEORGIA		BI	GUARANTEED BAI 3% FEE LOAN	11/02/18	8,500,000	0	0	This Rural Development investment will be used for the purchase and installation of a 35 kW Educational Simulator weaslee & 1 Augmented Arc Controller/Batter to link the systems together to assist in further strengthening the skills of students in the Welding and Joining Technology classes.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
GEORGIA	PIONEER FARMS, INC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/14/19	0	13,725	0	This Rural Development Investment will be used for the purchase and installation of a 5.0 MW solar array on property belonging to Pioneer Farms, Inc. This project will generate 8,914 kWh per year, which is enough electricity to power one home. This project will produce electric to operate the irrigation system and for the farm's existing equipment, as well as to power the farm's existing electric. The project will also include battery storage system. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	PW HOTEL GROUP LLC	BI	GUARANTEED 3% FEE LOAN	10/29/18	7,500,000	0	0	This Rural Development Loan Guarantee Investment will be used to construct a 93 room Holiday Inn Express in Fort Wentworth, GA and create 18 jobs.
	RADANCE DEVELOPMENT RCS II, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/10/19	0	191,069	0	This Rural Development Investment will be used for the purchase and installation of a 41.75kW solar energy replacement system for Raphael Investors LLC, on the property at 11275 Highway 100 in the County of Baldwin, Georgia. The project will generate 13,439 kWh per year, which is enough electricity to power 170 homes, and will realize \$160,388 in income per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	RAPHAEL INVESTORS, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/15/19	0	19,836	0	This Rural Development Investment will be used for the purchase and installation of a 10.5 MW solar array on the business property of Phillip M Reynolds. This project will generate 15,995 kWh per year, which is enough electricity to power one home, and will realize \$1,439 per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	REYNOLDS, PHILIP M	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/14/19	0	3,750	0	This Rural Development Investment will be used for the purchase and installation of a 10.5 MW solar array on the business property of Phillip M Reynolds. This project will generate 15,995 kWh per year, which is enough electricity to power one home, and will realize \$1,439 per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	SANDERS, LARRY J	EET	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/14/19	0	12,303	0	This Rural Development Investment will be used for make energy efficiency improvements with the replacement of 1 diesel to electric irrigation motor. This project will realize \$10,227 per year in savings, and will save the equivalent of 178,743 kWh of electricity per year (97%) which is enough electricity to power seven homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	SLASH PINE EMC	REDLG	PP-REN-ELECTRIC REDL- FINANCING (ELECTRIC) - LOAN	03/28/19	0	0	1,000,000	This Rural Development Investment will be used to expand medical services to Clinch Memorial Hospital in Hometown Georgia. Expansion of services will include implementation of a new medical imaging system, a new medical building, and the expansion of the program, a Behavioral Health Intensive Outpatient Program (IOP) with clinic, and for the recruitment of additional primary care providers and expansion. The vision for these programs is to offer a structured environment to help those in need to work towards recovery and health, behavioral health, substance abuse, and co-occurring disorders (such as

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Borrower or Grantee	State	Program	Program Description	Date Collocated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
WIREGRASS GEORGIA TECHNICAL COLLEGE	GEORGIA	RBEIG	RBCS ENTERPRISE GRANTS	06/11/19	0	\$3,689	0	This Rural Development investment will be used to purchase several pieces of allied health equipment for the newly constructed Wiregrass Technical College. The equipment includes a PEEK, All in One Panel PC instructor, NeuroMapCQ Edit Bundle, Pharmacology Simulator, and various licenses required for equipment purchases for the Nursing Lab at Wiregrass Technical College, Cook County campus. Most hospitals within the college's service area are in the state of Georgia and enrolling clinical sites for students to receive hands-on training, has increased the need for the use of student training simulators to better prepare students for the clinical setting. This is also a STEM project. The purchase of the equipment will allow for the training and employment of at least 22 registered nurses by the recently expanded Cook Medical campus in the Wiregrass area. The purchase of the equipment will also allow the college to propose to contribute \$115,510 in the form of a cost share into allied health instructor salaries that will be using the equipment to teach Registered Nursing students on the Cook Campus that is located in Sparks, GA.
WOODLAND GARDENS LLC	GEORGIA	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/27/19	0	13,310	0	This Rural Development investment will be used for the purchase and installation of a 12.6 MW solar array on the organic produce farm of Woodland Gardens LLC, in Winterville, GA. This project will replace 26,290 kWh (43.9%) per year, which is enough electricity to power 10 homes. The project will also be used to purchase and install a solar water heating system to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Grant funds will be used to help offset the costs associated with installing a PV solar system. This project projects to generate 60,300 lbs per year.
CSB/CAM LLC	HAWAII	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/10/19	0	23,222	0	This Rural Development investment will be used to assist farmer, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Grant funds will be used to help offset the costs associated with installing a PV solar system. This project projects to generate 60,300 lbs per year.
COUNTER CULTURE, LLC	HAWAII	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/20/19	0	15,173	0	This Rural Development investment will be used to assist farmer, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Grant funds will be used to help offset the costs associated with installing a PV solar system. This project will realize \$4,450 per year in savings, and will replace 26,290 kWh (62.97%) per year.
DECARIA, VINCENT B	HAWAII	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/02/19	0	20,000	0	This Rural Development investment will be used to assist farmer, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Vincent DeCaria dtna Maipalae Ranch is an agriculture producer in the Napaea area. Project funds will be used for the purchase and installation of solar panels. This project projects to generate 26,570 kWh per year and will realize \$4,450 per year in savings, and will replace 26,290 kWh (62.97%) per year.
DELOS REYES, SAMSON SERFICA	HAWAII	EED	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	04/20/19	0	8,115	0	This Rural Development investment will be used to assist farmer, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. SJ Vegetable Farm is an agriculture producer in the Napaea area. Project funds will be used for the purchase and installation of a variable speed DC brushless compressor and PID feedback controls. This project will realize \$12,063 per year in savings.
DELOS REYES, SAMSON SERFICA	HAWAII	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/20/19	0	8,108	0	This Rural Development investment will be used to assist farmer, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. SJ Vegetable Farm is an agriculture producer in the Napaea area. Project funds will be used for the purchase and installation of a 4.53 kW solar photovoltaic. This project will realize \$5,059 per year in savings.
HIGHWAY 1(N)A, INC.	HAWAII	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/20/19	0	81,243	0	This Rural Development investment will be used to assist farmer, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 100.2kW solar photovoltaic. This project will realize \$40,720.01 per year in savings.
HOKU KAI BIOFUELS LLC	HAWAII	BI	GUARANTEED B&I 3% FEE/LOAN	02/19/19	7,500,000	0	0	Rural Development funds will finance the acquisition of Hiko, Hawaii. Project is expected to create 7 new jobs with a wage rate of \$25/hour.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
HAWAII	HONUA HOME ANNA ORGANICS LLC	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	07/18/19	0	136,502		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Honua Home Anna Organics, LLC is a farming operation, producing and processing organic produce. The project will include the purchase and installation of a 62.63 kW solar array. This project will generate 127,291 kWh annually.
HAWAII	KAMIYA GOLD INC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/27/19	0	2,817		Grant funds will be used to help offset the costs associated with installing a PV solar system. The project projects to generate 1,491 kWh per year.
HAWAII	KAMIYA GOLD INC	EEl	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/27/19	0	2,052		0 The project projects to save 5329.5 kWh per year. 0 refrigerator. The project projects to save 5329.5 kWh per year.
HAWAII	MAUI LANI VETERINARY HOSPITAL LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/04/19	0	15,352		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Maui Lan Veterinary Hospital is a small rural business located in Kohuku, Hawaii. Project funds will be used for the purchase and installation of a 15.2kW solar photovoltaic. This project will realize 8,200.55 per year in savings.
HAWAII	OCR INC DBA SMALL KINE FARM	EEl	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/09/19	0	6,374		0 This project will realize \$11,500 per year in savings. 0 This project will realize \$11,500 per year in savings.
HAWAII	OCR INC DBA SMALL KINE FARM	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/09/19	0	6,400		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems. Small Kine Farms is a USDA certified organic mushroom farm. Project funds will be used for the purchase and installation of a 3.6 kW solar photovoltaic system. This project will realize 6,400 kWh per year and will save 6,400 kWh per year (18.24%) per year.
HAWAII	SCHUMAN AVIATION CO LTD	BI	GUARANTEED BA1 3% FEE LOAN	03/29/19	6,000,000	0	0	This Rural Development investment will help finance an air carrier company that currently services the Counties of Oahu and Maui. The company is expanding their services to include the island of Hawaii. The project will be used to purchase and lease aircraft, aircraft, debt restructuring and pay closing fees. The project is expected to create 5 jobs for a total of 80 jobs.
HAWAII	THE KOHALA CENTER, INC.	SSDPG	SMALL SOCIALLY DISADVANTAGED PRODUCER GRANT	09/19/19	0	175,000		Rural Development funds will be used to provide technical assistance to a total of 143 small, socially disadvantaged producers and processors of agricultural products and groups operating across the State of Hawaii. Hawaii Social Producers' Coop, United Rau Farmers Co-op, Farm Link Hawaii Producers Group, Anna Hobkups O Kilauea Producer Group, Uukelaan Trust Producer Group, Keali O Pahuat Okeana Producer Group, Hawaii Social Producers' Coop, and the Hawaii Social Producers' Coop are all small, socially disadvantaged producers operating in rural areas statewide. Technical assistance in the areas of business planning and capitalization, co-op leadership in project leadership in project management, accounting/financial literacy, community self-finity practices, grant application coaching, website development, community self-finity, and leadership in project management, accounting/financial literacy, community self-finity and responsibilities, and agricultural pest control.
HAWAII	THE KOHALA CENTER, INC.	RCDG	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/19/19	0	200,000		This Rural Development investment will be used to continue cooperative development operations of the Rural and Cooperative Business Development Services Center. Through technical assistance in Hawaii's rural areas. Project is projected to assist 6 groups, 75 businesses, 12 cooperatives, which will create and save a total of 23 jobs in rural Hawaii.
HAWAII	THE KOHALA CENTER, INC.	RREG	RREG ENTERPRISE GRANTS	09/11/19	0	20,184		0 0

Borrower or Grantee	State	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
2JRB, LLC	IDAHO	BI	GUARANTEED BA 3% FEE LOAN	02/13/19	900,000	0	0	This Rural Development loan guarantee investment will be used for the construction and term financing of an automatic car wash in the City of Pocatello, Payette County, Idaho. This business will be a significant asset to the region as this type of automatic car wash is the first of its kind in this area. The proposed project is expected to create eight new jobs with an average wage of \$15.00 per hour which is 207% of the federal minimum wage. The total project cost is estimated to be \$2,415,450. The project meet the following Task Force on Agriculture and Rural Prosperity priorities: (1) Project will support innovative sustained agricultural production; (2) Project will improve rural infrastructure such as wash system, and (2) 0 Project will utilize/make in American outputs in manufacturing.
2JRB, LLC	IDAHO	BI	GUARANTEED BA 3% FEE LOAN	02/13/19	1,032,360	0	0	This Rural Development loan guarantee investment will be used for the construction and term financing of an automatic car wash in the City of Pocatello, Payette County, Idaho. This business will be a significant asset to the region as this type of automatic car wash is the first of its kind in this area. The proposed project is expected to create eight new jobs with an average wage of \$15.00 per hour which is 207% of the federal minimum wage. The total project cost is estimated to be \$2,415,450. The project meet the following Task Force on Agriculture and Rural Prosperity priorities: (1) Project will support innovative sustained agricultural production; (2) Project will improve rural infrastructure such as wash system, and (2) 0 Project will utilize/make in American outputs in manufacturing.
3 HORSE RANCH VINEYARD LLC	IDAHO	BI	BUSINESS & INDUSTRY GUARANTEED LOAN - 1%	08/26/19	5,000,000	0	0	This Rural Development loan guarantee investment will be used for the construction and term financing of a wine production facility, tasting room, and event center. The production facility will include vineyard and associated winery equipment and services. The winery will provide services to existing and new wineries in the Eagle-Foothill American Viticultural Area where these services are not currently available. The project is expected to create at least two new jobs at an average wage of \$23.00 per hour which is 325% of the federal minimum wage. The total project cost is estimated to be \$5,000,000. The project meets the following Task Force on Agriculture and Rural Prosperity priorities: (1) Improving Quality of Life (reliable employment and community resilience); (2) Supporting a Rural Workforce; and (3) Developing the Rural Economy. (Made in America). 0 output in agriculture, food, and farm technologies, agribusiness, attracting private capital).
460 BREAD, INC	IDAHO	EEl	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/16/19	0	4,618	0	This Rural Development investment will be used to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. AC-Electric Motor Services, LLC is a family owned small electric motor repair business located in Twin Falls County, Idaho. This project investment will be used for the purchase and installation of a 17.28 kW Solar Electric array mounted on their new aging facility. This project advances energy efficiency by boosting production of electrical energy consumption per year in lighting costs. The project will replace 61% of electrical energy consumption per year in lighting costs.
AC ELECTRIC MOTOR SERVICES, LLC	IDAHO	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	08/21/19	0	10,368	0	This Rural Development investment will be used to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. AC-ACE Companies, Inc. is a family owned small solar array & Electrical Electronics Installation company located in the City of Pocatello, Idaho. This project investment will be used for the purchase and installation of a 3.1 MW rooftop solar array system to power business needs. The project advances energy efficiency by boosting production of energy from renewable sources (utilizing the solar energy), will realize 0.342,700 kilowatt hours per year in savings and will replace 2,427 kWh (69.98% of historical business electricity consumption) per year.
AC-CE COMPANIES, INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	13,888	0	0	This Rural Development investment will be used to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. AC-CE Companies, Inc. is a family owned small solar array & Electrical Electronics Installation company located in the City of Pocatello, Idaho. This project investment will be used for the purchase and installation of a 3.1 MW rooftop solar array system to power business needs. The project advances energy efficiency by boosting production of energy from renewable sources (i.e. utilizing the solar energy), will realize 0.342,700 kilowatt hours per year in savings and will replace 2,427 kWh (69.98% of historical business electricity consumption) per year.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
IDAHO	COLE FARMS, INC.	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	06/13/19	0	23,073	0	<p>This Rural Development Investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Cole Farms, Inc., is a family owned farm located in Canyon County, Idaho. The project consists of the installation of solar panels and a 34.0kW solar electric and mounted array to power irrigation needs. This project will advance energy security by boosting production of energy from renewable sources (utilizing the sun's energy), will realize \$5,625.40 per year in energy savings, and will replace 51,140 0 kWh (62.3% of historical usage) per year.</p> <p>This Rural Development loan guarantee investment will be used to purchase two new gas pumps with a partition, installing new rain gutters on the building, and new locken equipment for the farm. The project will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Cole Farms, Inc., is a family owned farm located in Canyon County, Idaho. The project consists of the installation of solar panels and a 34.0kW solar electric and mounted array to power irrigation needs. This project will advance energy security by boosting production of energy from renewable sources (utilizing the sun's energy), will realize \$5,625.40 per year in energy savings, and will replace 51,140 0 kWh (62.3% of historical usage) per year.</p>
IDAHO	D MONSON, LLC	BI	GUARANTEED BI 3% FEE LOAN	06/28/19	246,000	0	0	<p>This Rural Development loan guarantee investment will be used to purchase two new gas pumps with a partition, installing new rain gutters on the building, and new locken equipment for the farm. The project will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Cole Farms, Inc., is a family owned farm located in Canyon County, Idaho. The project consists of the installation of solar panels and a 34.0kW solar electric and mounted array to power irrigation needs. This project will advance energy security by boosting production of energy from renewable sources (utilizing the sun's energy), will realize \$5,625.40 per year in energy savings, and will replace 51,140 0 kWh (62.3% of historical usage) per year.</p> <p>This Rural Development loan guarantee investment will be used to purchase two new gas pumps with a partition, installing new rain gutters on the building, and new locken equipment for the farm. The project will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Cole Farms, Inc., is a family owned farm located in Canyon County, Idaho. The project consists of the installation of solar panels and a 34.0kW solar electric and mounted array to power irrigation needs. This project will advance energy security by boosting production of energy from renewable sources (utilizing the sun's energy), will realize \$5,625.40 per year in energy savings, and will replace 51,140 0 kWh (62.3% of historical usage) per year.</p>
IDAHO	DAREN STAFFORD & KISMET PC	BI	GUARANTEED BI 3% FEE LOAN	08/27/19	400,000	0	0	<p>This Rural Development loan guarantee investment will be used to purchase two new gas pumps with a partition, installing new rain gutters on the building, and new locken equipment for the farm. The project will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Cole Farms, Inc., is a family owned farm located in Canyon County, Idaho. The project consists of the installation of solar panels and a 34.0kW solar electric and mounted array to power irrigation needs. This project will advance energy security by boosting production of energy from renewable sources (utilizing the sun's energy), will realize \$5,625.40 per year in energy savings, and will replace 51,140 0 kWh (62.3% of historical usage) per year.</p> <p>This Rural Development loan guarantee investment will be used to purchase two new gas pumps with a partition, installing new rain gutters on the building, and new locken equipment for the farm. The project will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Cole Farms, Inc., is a family owned farm located in Canyon County, Idaho. The project consists of the installation of solar panels and a 34.0kW solar electric and mounted array to power irrigation needs. This project will advance energy security by boosting production of energy from renewable sources (utilizing the sun's energy), will realize \$5,625.40 per year in energy savings, and will replace 51,140 0 kWh (62.3% of historical usage) per year.</p>
IDAHO	DEYO, STEPHANIE ELIZABETH	EEl	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	04/02/19	0	5,047	0	<p>This Rural Development investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Cole Farms, Inc., is a family owned farm located in Canyon County, Idaho. The project consists of the installation of solar panels and a 34.0kW solar electric and mounted array to power irrigation needs. This project will advance energy security by boosting production of energy from renewable sources (utilizing the sun's energy), will realize \$5,625.40 per year in energy savings, and will replace 51,140 0 kWh (62.3% of historical usage) per year.</p> <p>This Rural Development loan guarantee investment will be used to purchase two new gas pumps with a partition, installing new rain gutters on the building, and new locken equipment for the farm. The project will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Cole Farms, Inc., is a family owned farm located in Canyon County, Idaho. The project consists of the installation of solar panels and a 34.0kW solar electric and mounted array to power irrigation needs. This project will advance energy security by boosting production of energy from renewable sources (utilizing the sun's energy), will realize \$5,625.40 per year in energy savings, and will replace 51,140 0 kWh (62.3% of historical usage) per year.</p>
IDAHO	DRIGGS, CITY OF	RREG	RBCS ENTERPRISE GRANTS	07/29/19	0	5,000	0	<p>This Rural Development investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Cole Farms, Inc., is a family owned farm located in Canyon County, Idaho. The project consists of the installation of solar panels and a 34.0kW solar electric and mounted array to power irrigation needs. This project will advance energy security by boosting production of energy from renewable sources (utilizing the sun's energy), will realize \$5,625.40 per year in energy savings, and will replace 51,140 0 kWh (62.3% of historical usage) per year.</p> <p>This Rural Development loan guarantee investment will be used to purchase two new gas pumps with a partition, installing new rain gutters on the building, and new locken equipment for the farm. The project will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Cole Farms, Inc., is a family owned farm located in Canyon County, Idaho. The project consists of the installation of solar panels and a 34.0kW solar electric and mounted array to power irrigation needs. This project will advance energy security by boosting production of energy from renewable sources (utilizing the sun's energy), will realize \$5,625.40 per year in energy savings, and will replace 51,140 0 kWh (62.3% of historical usage) per year.</p>

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
IDAHO	EAST-CENTRAL IDAHO PLANNING&DEVL P ASSO	REEG	RSCS ENTERPRISE GRANTS	07/25/19	0	0	18,000	<p>This Rural Development Investment will be used for the assistance in value added research and technical assistance projects to benefit nine small and emerging businesses in rural areas within nine counties of Eastern Idaho. East-Central Idaho Planning & Development Association is a non-profit organization that provides technical assistance and grants to small businesses in rural Idaho. The projects will vary depending on the needs of each individual business, with examples of what research will be done being feasibility studies, target audience surveys, market research, and business plan development. The projects will be designed to be actionable items to help business owners make decisions and allow for these businesses to seek future investments. Projects will benefit businesses that otherwise would not have been able to conduct the research and development needed to grow their businesses and be used to help assist local rural businesses in conducting targeted research to help improve their business models and provide tangible benefits in the future.</p>
IDAHO	GO PROPERTIES, LLC	BI	BUSINESS & INDUSTRY GUARANTEED LOAN - 1%	12/11/18	2,277,034	0	0	<p>This Rural Development loan guarantee investment will be used to finance the start-up of a new business, the expansion of an existing business, and the expansion of Gulf Outdoor Equipment, LLC, a power sports equipment dealer and service located in the City of Lewiston, Nez Perce County, Idaho. The project is expected to result in the creation of 10 new jobs. The project is expected to have a positive impact on the local economy. The average wage rate of this job to be created is \$18 per hour, which is 248% of the Federal minimum wage of \$7.25 per hour. Additionally, the planned expansion will benefit the local economy by increasing the number of jobs and the amount of money being spent in the community. The project is expected to have a positive impact on the local economy by increasing the number of jobs and the amount of money being spent in the community. The project is expected to have a positive impact on the local economy by increasing the number of jobs and the amount of money being spent in the community.</p>
IDAHO	GOLDEN BEAUTY HOSPITALITY, LLC AMERICAN	EEL	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/30/19	0	13,720	0	<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Golden Beauty Hospitality, LLC is a family owned small business that operates the American Lodge & Suites located in Blaine, Idaho. The project is expected to result in the creation of 10 new jobs. The project is expected to have a positive impact on the local economy. The average wage rate of this job to be created is \$18 per hour, which is 248% of the Federal minimum wage of \$7.25 per hour. Additionally, the planned expansion will benefit the local economy by increasing the number of jobs and the amount of money being spent in the community. The project is expected to have a positive impact on the local economy by increasing the number of jobs and the amount of money being spent in the community. The project is expected to have a positive impact on the local economy by increasing the number of jobs and the amount of money being spent in the community.</p>
IDAHO	HAGERMAN VALLEY GAMEBIRDS, LLC	RES	MAND. REVIEW ENERFY SYSTEMS GRANTS UNDER \$20,000	05/21/19	0	11,460	0	<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Idaho Ag, Inc. is a local family owned lessor of non-perennial agricultural equipment located in Blaine, Idaho. The project is expected to result in the creation of 10 new jobs. The project is expected to have a positive impact on the local economy. The average wage rate of this job to be created is \$18 per hour, which is 248% of the Federal minimum wage of \$7.25 per hour. Additionally, the planned expansion will benefit the local economy by increasing the number of jobs and the amount of money being spent in the community. The project is expected to have a positive impact on the local economy by increasing the number of jobs and the amount of money being spent in the community. The project is expected to have a positive impact on the local economy by increasing the number of jobs and the amount of money being spent in the community.</p>
IDAHO	IDAHO AG INC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	08/24/19	0	48,919	0	<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Idaho Ag, Inc. is a local family owned lessor of non-perennial agricultural equipment located in Blaine, Idaho. The project is expected to result in the creation of 10 new jobs. The project is expected to have a positive impact on the local economy. The average wage rate of this job to be created is \$18 per hour, which is 248% of the Federal minimum wage of \$7.25 per hour. Additionally, the planned expansion will benefit the local economy by increasing the number of jobs and the amount of money being spent in the community. The project is expected to have a positive impact on the local economy by increasing the number of jobs and the amount of money being spent in the community. The project is expected to have a positive impact on the local economy by increasing the number of jobs and the amount of money being spent in the community.</p>

RBCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
IDAHO	LEWIS-CLARK STATE COLLEGE	REG	RBCS ENTERPRISE GRANTS	07/01/19	0	13,390		<p>This Rural Development investment will be used to purchase a CNC Mill. An Axis table for the machine is included in the purchase price. The machine will be used to assist in the Technical & Industrial Division. The equipment purchase will provide the most up-to-date training opportunities within the CNC machining lab. (CSB continues to assist rural small businesses in the purchase of new equipment and training opportunities. The purchase of new job per year with each graduating class of entry-level machinists. This project with its emphasis on workforce development, is a key aspect of regional rural revitalization efforts. The project will provide training opportunities for students and graduates of the program. Supporting a Rural Workforce. Generating employment needs, attracting available workers from urban and rural centers alike, and providing the workforce with training and education to best fill the available needs).</p>
IDAHO	LISE JUMPER, DBA JUMPER SPORT HORSES	RES	MANU. RENEW ENERGY SYSTEMS GRANTS UNDER RESUR	06/27/19	0	8,103		<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Lisa Jumper, dba Jumper Sport Horses is a small family owned business located in Lewiston, Idaho. The project will be used to purchase and installation of a 15.5 kW solar electric array to power business needs. This project advances energy security by boosting production of energy from renewable sources (utilizing the sun's energy), will realize \$92,186.00 per year in savings and will replace 158,373 kWh of electricity per year (100% of historical consumption) which is enough electricity to power 14 homes.</p>
IDAHO	LUX FARMS, INC	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	06/10/19	0	29,360		<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Lux Farms, Inc is a family owned farm located in Lewiston, Idaho. The project will be used to purchase and installation of a 99.96 kW roof mounted solar electric system to power energy needs of the business. This project advances energy security by boosting production of energy from renewable sources (utilizing the sun's energy), will realize \$3,352.86 per year in energy savings, and will replace 38,669 kWh per year (100% of historical consumption) which is enough electricity to power 14 homes.</p>
IDAHO	MVP, LLC	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	06/17/19	0	42,250		<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. MVP, LLC is a family owned engineering and design located in Teton County, Idaho. This project will be used to purchase and installation of a 99.96 kW roof mounted solar electric system to power energy needs of the business. This project advances energy security by boosting production of energy from renewable sources (utilizing the sun's energy), will realize \$3,352.86 per year in energy savings, and will replace 38,669 kWh per year (100% of historical consumption) which is enough electricity to power 14 homes.</p>
IDAHO	ONOFINO, CITY OF	REG	RBCS ENTERPRISE GRANTS	06/12/19	0	10,000		<p>This Rural Development investment will be used to prepare an Opportunity Zone Investment Prospectus and Marketing Strategy for a new Cross Laminated Timber manufacturing facility located on an old mill site within the City of Onofino and the Clearwater County Opportunity Zone. The contractor, Thomas P. Lane & Associates will work with the City of Onofino to complete the prospectus and marketing strategy. The project will be used to prepare the development investment in value-added wood products in this timber rich area of Idaho. The economic development of a new Cross Laminated Timber manufacturing facility could provide employment opportunities for the community. The project will be used to prepare the Trail Force on Agriculture and Rural Prosperity key strategy. 5) Developing the Rural Economy (innovative farm technologies, energy security, recreation, agritourism, sustainable forest management, investing in rural transportation infrastructure, attracting private capital).</p>

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
IDAHO	SCHERMEER FARMS, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/05/19	0	44,381		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Schermeier Farms, LLC is a local family owned agricultural producer specializing in row crop farming located in Owyhee County, Idaho. This Rural Development investment will be used to assist the business in purchasing and installing a 100kW ground mounted solar array system to power energy needs of the business and land. This project advances energy security by boosting production of energy from renewable source (utilizing photovoltaic technology) and will generate 243,038 kWh of electricity per year (86.22% of historical consumption) which is enough electricity to power 22 homes.
IDAHO	SCHERMEER, RUSSELL N	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/05/19	0	48,165		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Russell Schermeier is the owner and legal entity name of a Rural Small Business located in Owyhee County, Idaho. The business is family owned and operated and is a cattle ranch. This Rural Development investment will be used for the design, purchase, and installation of a 100kW ground mounted solar array system to power energy needs of the business and land. This project advances energy security by boosting production of energy from renewable sources (utilizing the solar energy.) This project will realize \$20,415.19 per year in savings and will replace 243,038 kWh of electricity per year (86.22% of historical consumption) which is enough electricity to power 22 homes.
IDAHO	SOUTH FORK PARTNERS, LLC	BI	GUARANTEED 84.3% FEE LOAN	03/26/19	930,000	0		This Rural Development loan guarantee investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. South Fork Partners, LLC is a local family owned agricultural producer specializing in the production of potato, hay, and barley crop farming located in Idaho County, Idaho. This project investment will be used for the purchase and installation of a SolarThermal Photovoltaic system to be installed in a newly created Recreational Vehicle park outside of Phipps, Idaho. This project advances energy security by boosting production of energy from renewable source (utilizing the solar energy) and will realize \$9,000 per year in energy savings and will eliminate the need for grid power for services provided. This project will generate 80,448 kWh of energy per year.
IDAHO	SRR1 ENTERPRISES, LLC	RES	MAND. RENEW ENERFY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	20,000		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Tyche Ag, LLC is a local family owned agricultural producer specializing in the production of potato, hay, and barley crop farming located in Owyhee County, Idaho. This project investment will be used for the purchase and installation of a \$3.3 kW ground mounted solar electric array to produce power to help assist in irrigation of agricultural production. This project advances energy security by boosting production of energy from renewable source (utilizing the solar energy) and will realize 164,530 kWh equivalent of energy per year (25.8% of historical consumption) which is enough to power 15 homes.
IDAHO	TYCHE AG, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/24/19	0	49,919		

Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
IDAHO UNRUH, DAVID CHRIS	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/06/19	0	48,165	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. David Chris Unruh is a family owned farm located in Blaine County, Idaho. This project investment will be used for the purchase and installation of a 10kW solar array to help power the farm's daily needs. The project will also include loan funds to help power the farm's daily needs by purchasing energy efficient equipment. Project advances energy security by boosting production of energy from renewable sources (the solar array) will realize \$20,415.19 per year in energy savings and will replace 54,037 kWh of electricity consumption per year. Which is enough electricity to power 22 homes per year.
IDAHO WEBSTER, INC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/13/19	0	48,991	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Webster's Inc is a family owned farm located in Madison County, Idaho. This project investment will be used for the purchase and installation of a 10kW solar array to help power the farm's daily needs. The project will also include loan funds to help power the farm's daily needs by purchasing energy efficient equipment. Project advances energy security by boosting production of energy from renewable sources utilizing the solar array will realize \$10,739.99 per year in energy savings and will replace 144,167 kWh (84.47% of historical consumption) per year, which is enough energy to power 14 homes per year.
ILLINOIS AMANN, CRAIG	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/10/19	0	6,319	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Craig Ammann is a farmer located in Highland, Ill. Project investment will be used for the purchase and installation of a 10kW solar array to help power the farm's daily needs. This project will realize more than \$1,700 per year in savings, and will replace 14,206 kWh of electricity per year, which is enough energy to 1 power home.
ILLINOIS AMANN, SHARON	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/18/19	0	16,875	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Sharon Ammann owns a large facility that houses a rubber manufacturing facility in Highland, Ill. She and her husband are also farmers in the same area. This project investment will be used for the purchase and installation of a 10kW solar array to help power the farm's daily needs. This project will realize more than \$5,800 per year in savings, and will replace 53,863 kilowatt hours per year, which is enough energy to power 5 homes.
ILLINOIS ARCOLA CITY OF	RREG	RECS ENTERPRISE GRANTS	07/18/19	0	99,000	0	The Rural Development investment will be used to assist the City of Arcola, IL, to establish a revolving loan fund. A \$100,000 fund will be created using \$99,000 in awarded grant funds and a \$1,000 contribution from the city. The primary goal of loan fund will be to focus on local businesses and individuals who need capital to start or expand their business. The loan fund would include working capital, machinery, equipment, real estate etc.. An active revolving loan fund would be a much-needed addition to the city's economic development tool box. The loan fund would provide financial assistance to local businesses and individuals who need small business growth.
ILLINOIS ARTHUR'S AG SOLUTIONS LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/02/19	0	19,087	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Scott Arlt is a farmer located in Good Hope, Ill. Project investment will be used for the purchase and installation of a 10kW solar array to help power the farm's daily needs. This project will realize more than \$1,700 per year in savings, and will replace 14,206 kWh of electricity per year, which is enough energy to power 14 homes.
ILLINOIS AULT, SCOTT	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/02/19	0	5,124	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Scott Arlt is a farmer located in Good Hope, Ill. Project investment will be used for the purchase and installation of a 10kW solar array to help power the farm's daily needs. This project will realize more than \$1,700 per year in savings, and will replace 14,206 kWh of electricity per year, which is enough energy to power 14 homes.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
ILLINOIS	BEESERMAN BOWLING DYNAMIX, INC.	BI	GUARANTEED 3% FEE LOAN	11/29/18	142,395	0	0	<p>This Rural Development investment will assist a small, family-owned bowling alley in Carbondale, Illinois, in developing renewable energy systems and in making energy-efficiency improvements to their operations. The investment will be used to purchase and install a 33kW solar array to help power the store, which is enough energy to power 7 homes.</p> <p>The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Boss Carpet One LLC is a flooring contractor located in Morris, Illinois. The investment will be used to purchase and install a 33kW solar array to help power the store, which is enough energy to power 7 homes.</p>
ILLINOIS	BOSS CARPET ONE LLC	RES	MAND. RENEW ENERFY SYSTEMS GRANTS UNDER \$20,000	05/19/19	0	20,000	0	<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Michael Busby is a grain and swine farmer located in Morris, Illinois. The investment will be used to purchase and install a 33kW solar array to help power the store, which is enough energy to power 7 homes.</p>
ILLINOIS	BREBY, MICHAEL	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/29/19	0	28,140	0	<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Vincent Bush is a farmer located in Morris, Ill. Project funds will be used for the purchase and installation of a 33kW solar array to help power the store, which is enough energy to power 7 homes.</p>
ILLINOIS	BUSH, VINCENT (BILL)	RES	MAND. RENEW ENERFY SYSTEMS GRANTS UNDER \$20,000	06/27/19	0	20,000	0	<p>This Rural Development investment will be used to assist the city of Carbondale, Ill., with determining the feasibility of a co-working space in the downtown business district. A Rural Development investment will be used to purchase and install a 33kW solar array to help power the store, which is enough energy to power 7 homes.</p>
ILLINOIS	CARBONDALE, CITY OF	RBOG	RBGS DEVELOPMENT GRANT	06/27/19	0	30,300	0	<p>This Rural Development investment will be used to assist the city of Carbondale, Ill., with determining the feasibility of a co-working space in the downtown business district. A Rural Development investment will be used to purchase and install a 33kW solar array to help power the store, which is enough energy to power 7 homes.</p>

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
ILLINOIS	CARROLLTON CITY OF	REGO	RBGS DEVELOPMENT GRANT	06/27/19	0	30,500	0	<p>This Rural Development Investment will be used to assist the city of Carrollton, Ill. to prepare an opportunity analysis and downtown vision plan for the streets surrounding its town square. A Rural Business Development Grant of \$30,500 has been awarded to the city, along with funding from the city of \$10,000. The project will be used to support the city's efforts to develop a downtown vision plan for the streets surrounding its town square. The project will be used to support the city's efforts to develop a downtown vision plan for the streets surrounding its town square. The project will be used to support the city's efforts to develop a downtown vision plan for the streets surrounding its town square.</p>
ILLINOIS	COLES COUNTY ELECTRIC COOPERATIVE	REDG	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	06/13/19	0	0	2,000,000	<p>This Rural Development Investment will be used to provide loans to rural utilities program eligible borrowers to provide economic development. This project will be for the construction of a new 100,000 volt power line from the Coles County Electric Cooperative to the Coles County Electric Cooperative. The project will be for the construction of a new 100,000 volt power line from the Coles County Electric Cooperative to the Coles County Electric Cooperative. The project will be for the construction of a new 100,000 volt power line from the Coles County Electric Cooperative to the Coles County Electric Cooperative.</p>
ILLINOIS	DAVID MARTI TRUCKING INC	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	07/18/19	0	7,058	0	<p>This Rural Development Investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements. This project will be used to assist David Marti Trucking Inc. in making energy-efficiency improvements. This project will be used to assist David Marti Trucking Inc. in making energy-efficiency improvements. This project will be used to assist David Marti Trucking Inc. in making energy-efficiency improvements.</p>
ILLINOIS	DIEDRICH DAVID	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/18/19	0	16,821	0	<p>This Rural Development Investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements. This project will be used to assist David Marti Trucking Inc. in making energy-efficiency improvements. This project will be used to assist David Marti Trucking Inc. in making energy-efficiency improvements. This project will be used to assist David Marti Trucking Inc. in making energy-efficiency improvements.</p>
ILLINOIS	DIETRICH, VILL OF	REGO	RBGS ENTERPRISE GRANTS	07/29/19	0	54,182	0	<p>This Rural Development Investment will be used to assist the village of Dietrich, Ill. to expand their current industrial park. The project will consist of 2 phases, including the construction of an access street and storm sewer system in Phase I. Rural Business Development Grant of \$54,182 has been awarded to the village of Dietrich, Ill. The project will be used to assist the village of Dietrich, Ill. in making energy-efficiency improvements. This project will be used to assist the village of Dietrich, Ill. in making energy-efficiency improvements. This project will be used to assist the village of Dietrich, Ill. in making energy-efficiency improvements.</p>
ILLINOIS	EGYPTIAN ELECTRIC COOPERATIVE ASSN.	REDG	PP-RED-ELECTRIC REDL - FINANCING (ELECTRIC) - LOAN	09/10/19	0	0	1,000,000	<p>This Rural Development Investment will be used to provide loans to rural utilities program eligible borrowers to provide economic development. This project will be for the renovation of the middle school in Murphysboro, Ill., with loan funds provided by the Egyptian Electric Cooperative Association. The project will consist of classroom and electrical upgrades and improvements to the school. The project will be used to assist the Egyptian Electric Cooperative Association in making energy-efficiency improvements. This project will be used to assist the Egyptian Electric Cooperative Association in making energy-efficiency improvements. This project will be used to assist the Egyptian Electric Cooperative Association in making energy-efficiency improvements.</p>
ILLINOIS	ELM FARMS GRAIN LLC	EEL	MANU ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	06/24/19	0	16,128	0	<p>This Rural Development Investment will be used to provide loans to rural utilities program eligible borrowers to provide economic development. This project will be for the renovation of the middle school in Murphysboro, Ill., with loan funds provided by the Egyptian Electric Cooperative Association. The project will consist of classroom and electrical upgrades and improvements to the school. The project will be used to assist the Egyptian Electric Cooperative Association in making energy-efficiency improvements. This project will be used to assist the Egyptian Electric Cooperative Association in making energy-efficiency improvements. This project will be used to assist the Egyptian Electric Cooperative Association in making energy-efficiency improvements.</p>

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
ILLINOIS	ELMORE, THOMAS	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/22/19	0	5,778		<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Thomas Elmore is a grain farmer located in Grant, Ill. Project funds will be used for the purchase and installation of a 57kW solar array to help power his farm. This project will realize more than \$1,300 per year in savings, and will generate 14,356 kilowatt hours per year, which is enough energy to power 1 home.</p>
ILLINOIS	FEUTZ CONTRACTORS, INC.	BI	GUARANTEED B&I 3% FEE LOAN	03/27/19	3,000,000	0	0	<p>This Rural Development investment will provide debt restructuring assistance to Feutz Contractors, Inc. in the construction of a new 100,000 sq. ft. building for use as a warehouse, equipment storage, and office space. The building will also include a parking lot, sewer, water, and utility installation, streets, and concrete work. They serve the public and private sector in east-central Illinois and west-central Indiana and have been in business since 1925. They employ primarily Asian workers at an average rate of \$31.00 per hour. This project will provide a much needed facility for the company, which will improve their ability to continue providing their construction services to the region. 2018 was a tough year for Feutz, due to reduced public works activity, which caused increased market competition. The company is currently in a state of financial distress, and has been unable to obtain financing from local banks. Developments in Indiana and Illinois state governments point to an increase in public works projects for 2019 and beyond, and Feutz has been pursuing more private development work in the area. This project will provide the company with the funds needed to complete their requirements by more than \$2.3 million, thus providing "room to breathe" while business picks back up for them. Feutz Contractors will contribute \$536,500 towards this debt restructuring project, and Peoples Bank & Trust will be contributing \$188,335.</p>
ILLINOIS	FRANKLIN, COUNTY OF	REEG	RBGS ENTERPRISE GRANTS	07/29/19	0	99,999		<p>This Rural Development investment will be used to assist Franklin County, Ill. to purchase and demolish an existing building in Benton, Ill and construct a new parking lot that will serve the downtown area. A Rural Business Development Grant of \$99,999 has been awarded. Being with a contribution from the county of \$24,764 in order to complete the project. Project funds will be used for the purchase and installation of a 57kW solar array to help power his farm. This project will realize more than \$1,300 per year in savings, and will generate 14,356 kilowatt hours per year, which is enough energy to power 1 home.</p>
ILLINOIS	GENSLER, MELISSA A	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/24/19	0	20,000		<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Melissa Gensler is a grain farmer located in Rockwell, Ill. Project funds will be used for the purchase and installation of a 57kW solar array to help power his farm. This project will realize more than \$1,300 per year in savings, and will generate 14,356 kilowatt hours per year, which is enough energy to power 1 home.</p>
ILLINOIS	GENSLER, RICHARD	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/20/19	0	8,817		<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Richard Gensler is a farmer located in Rockwell, Ill. Project funds will be used for the purchase and installation of a 18kW solar array to help power his farm. This project will realize more than \$7,800 per year in savings, and will replace 17,860 kilowatt hours per year, which is enough energy to power 1 home.</p>
ILLINOIS	QUITILESON, MICHAEL	EEL	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	06/24/19	0	14,647		<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Michael Gitleson is a grain farmer in Ashton, Ill. This project is anticipated to realize more than \$7,800 per year in savings, and will replace 17,860 kilowatt hours per year, which is enough energy to power 1 home. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
ILLINOIS	GND HOLDINGS, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/16/19	0	19,421		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. GND Holdings LLC is an agriculture producer located in Illinois and will use the project funds to purchase and install a 100kW solar array to help power the home barn. This project will realize more than \$5,300 per year in savings and will replace 57,832 kilowatt hours per year, which is enough energy to power 60 homes. They will also be selling 4,816 kilowatt hours back to the electric grid.
ILLINOIS	H.M. AUTOMOTIVE, INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/24/19	0	19,556		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. H.M. Automotive Inc. is an automotive dealership located in Centralia, Ill. Project funds will be used for the purchase and installation of a 100kW solar array to help power the home barn. This project will realize more than \$5,300 per year in savings and will replace 150,725 kilowatt hours per year, which is enough energy to power 0 14 homes.
ILLINOIS	HAMERLUNCK, NEIL A	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/26/19	0	11,900		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Neil Hamerlunck is a grain farmer and also owns a storage facility, both located in Orion, Ill. Project funds will be used for the purchase and installation of a 100kW solar array to help power the home barn. This project will realize more than \$5,300 per year in savings and will replace 20,202 kilowatt hours per year, which is enough energy to power 2 homes. The systems will also be generating another 12,211 kilowatt hours that will be sold back to the grid. That is enough energy to power another 0 additional homes.
ILLINOIS	HAYESIDA, CAROL L	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/16/19	0	6,522		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Carol Hayesida is a grain farmer and also owns a storage facility, both located in Orion, Ill. Project funds will be used for the purchase and installation of a 100kW solar array to help power the home barn. This project will realize more than \$5,300 per year in savings and will replace 13,769 kilowatt hours per year, which is enough energy to power 2 homes.
ILLINOIS	HILL VIEW FARMS, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/22/19	0	7,456		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Hill View Farms Inc. is a grain farm located in Mt. Carmel, Illinois and will use the project funds to purchase and install a 100kW solar array to help power their farming operation. This project will realize more than \$1,500 per year in savings and will replace 12,187 kilowatt hours per year, which is enough energy to power 1 home.
ILLINOIS	HUELSING, SCOTT H	EEL	MAND. ENERGY EFFICI IMPROV GRANTS UNDER \$20,000	06/24/19	0	20,000		This Rural Development investment will be used to make energy efficiency improvements to their operations. Scott Hueelsing is a grain farmer and also owns a storage facility, both located in Elgin, Ill. This project is anticipated to realize more than \$10,800 per year in savings and will replace 208,200 kilowatt hours (55%) per year, which is enough energy to power 19 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
ILLINOIS	HUNT FARMS PARTNERSHIP	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/29/19	0	21,014		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Hunt Farms Partnership is a farming operation located in Mason, Ill. Project funds will be used for the purchase and installation of a 75kW solar array to help power the home barn. This project will realize more than \$1,600 per year in savings and will replace 104,367 kilowatt hours per year, which is enough energy to power 3 homes.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
ILLINOIS	INNESS FARM R&R	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/29/19	0	50,000		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Inness Farms R&R is a grain farm located in Galesburg, Illinois. Project funds will be used for the purchase and installation of a 171kW solar array to help power the farming operation. This project will realize more than \$24,559 per year in savings, and will replace 224,334 kilowatt hours per year and generate another 0 17,248 kilowatt hours, which is enough energy to power 22 homes.
ILLINOIS	JDS AUTO BODY	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/18/19	0	14,843		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. JDS Auto Body is an automotive body, paint, and interior repair business located in Galesburg, Illinois. Project funds will be used for the purchase and installation of a 34kW solar array to help power the business. This project will realize more than \$4,000 per year in savings, and will replace 41,829 kilowatt hours per year, 0 which is enough energy to power 4 homes.
ILLINOIS	JOHNSON, LARRY	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/17/19	0	5,698		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Larry Johnson is a leases real estate and is located in Altona, Ill. Project funds will be used for the purchase and installation of a 171W solar array to help power the business. This project will realize more than \$2,800 per year in savings, and will replace 35,633 kilowatt hours per year, which is enough energy to power 1 0 home.
ILLINOIS	KATHY'S KITCHEN LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	8,224		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Kathy's Kitchen LLC is a cafe and restaurant located in business located in Virginia, Ill. Project funds will be used for the purchase and installation of a 30kW solar array to help power the business. This project will realize more than \$2,800 per year in savings, and will replace 35,633 kilowatt hours per year, which is enough energy to power 2 homes. They will also be selling an additional 7,431 kilowatt hours back to the 0 electric grid.
ILLINOIS	KELLER, STEVEN	EEl	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/17/19	0	16,842		This Rural Development investment will be used to make energy efficiency improvements to the project facility. The project is located in Galesburg, Illinois. Project funds will be used to replace 193,854 kilowatt hours (69% per year, which is enough energy to power 17 homes, 0 improvements to their operations.
ILLINOIS	KELLER, VICTORIA	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/18/19	0	13,851		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Victoria Keller is a horse boarding business located in Havana, Ill. Project funds will be used for the purchase and installation of a 24kW solar array to help power the hog confinement facility. This project will realize more than \$4,000 per year in savings, and will replace 33,633 kilowatt hours per year, which is enough energy to 0 power 3 homes.
ILLINOIS	KELLY, CLARK BOYD	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/20/19	0	6,511		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Kelly Boyd is a horse boarding business located in power the farm. This project will realize more than \$3,600 per year in savings, and will 0 replace 23,960 kilowatt hours per year, which is enough energy to power 2 homes.
ILLINOIS	HOELLER, KENNETH G	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/20/19	0	2,637		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Kevin Hoeller is a lepor of real estate and is located in 0 and will replace 10,923 kilowatt hours per year, which is enough energy to power 1 home.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
ILLINOIS	KORTE, KEITH	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/18/19	0	6,187	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Keith Korte is a grain farmer located in Alton, Ill. Project funds will be used for the purchase and installation of a 15kW solar array to power the hog confinement facility. The project will realize more than \$2,000 per year in savings, and will replace 16,671 kilowatt hours per year, which is enough energy to power 1 home.
ILLINOIS	LARSON FARMS PARTNERSHIP	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/10/19	0	80,460	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Larson Farms Partnership is a cattle and grain farmer located in Maple Park, Ill. Project funds will be used for the purchase and installation of an 8kW solar array to power the hog confinement facility. The project will realize more than \$2,000 per year in savings, and will replace 240,960 kilowatt hours per year and generate another 38,210 to sell back to the electric grid. This is enough energy to power 25 homes.
ILLINOIS	LINK, JEFFREY	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/18/19	0	11,500	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Jeffrey Link is an agricultural producer located in Abingdon, Ill. Project funds will be used for the purchase and installation of a 19kW solar array to power the hog confinement facility. The project will realize more than \$2,000 per year in savings, and will replace 25,832 kilowatt hours per year, which is enough energy to power 2 homes.
ILLINOIS	LYONS, THOMAS P	BI	GUARANTEED 841 3% FEE LOAN	03/28/19	648,079	0	0	This Rural Development Business & Industry Loan Guarantee will be used to purchase a commercial kitchen in Robinson, Illinois. The project will realize more than \$30,000 per year in savings, and will replace 36,000 kilowatt hours per year. The current tenant of the building is a KFC Restaurant franchise. The city of Robinson, Ill. will benefit from the retention of a business and the creation of roughly 25 jobs will be retained in the community as a result of the project.
ILLINOIS	M.J.M. ELECTRIC COOPERATIVE, INC.	EEl	MAND-ENERGY EFFIC IMPROV GRANTS UNDER	06/24/19	0	19,833	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. M.J.M. Electric Cooperative is an electric distribution cooperative located in Jerseyville, Ill. Project funds will be used for the purchase and installation of a new geothermal system at their facility to offset previous energy usage. This project will realize more than \$2,000 per year in savings, and will replace 2,129 kilowatt hours per year, which is enough energy to power 20 homes.
ILLINOIS	MAIN HITCH FARM INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/29/19	0	19,880	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Main Hitch Farm is a cattle and grain farmer located in Jerseyville, Ill. Project funds will be used for the purchase and installation of a 69kW solar array to help power the hog confinement facilities. This project will realize more than \$6,900 per year in savings, and will replace 83,378 kilowatt hours per year, which is enough energy to power 70 homes.
ILLINOIS	MARSHALL AREA CHAMBER OF COMMERCE	RREG	RSCS ENTERPRISE GRANTS	07/18/19	0	24,000	0	This Rural Development investment will be used to provide \$24,000 in grant funds to the Marshall Area Chamber of Commerce to renovate space within their facility that is used as a community center. The project will realize more than \$2,000 per year in savings, and will replace 2,129 kilowatt hours per year, which is enough energy to power 20 homes. These improvements include HVAC upgrades and the complete re-wiring of the lower level of the building. These improvements are necessary to remove safety hazards as well as provide comfortable space to the local operators. The project will realize more than \$2,000 per year in savings, and will replace 2,129 kilowatt hours per year, which is enough energy to power 20 homes. The grantee will contribute \$5,000 of their own funds to complete this project.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
ILLINOIS	MARTIN, ALAN L	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/18/19	0	20,000		<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Alan Martin is a farmer located in Alsine, Ill. Project funds will be used for the purchase and installation of a 4kW solar array to help power his farm. This project will realize more than \$7,000 per year in savings, and will replace 71,312 kilowatt hours per year, which is enough energy to power 7 homes.</p> <p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Alan Martin is a farmer located in Alsine, Ill. Project funds will be used for the purchase and installation of a 4kW solar array to help power his farm. This project will realize more than \$7,000 per year in savings, and will replace 71,312 kilowatt hours per year, which is enough energy to power 7 homes.</p>
ILLINOIS	MAY, IRA	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/10/19	0	12,877		<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Christine Miller is a grain farmer located in Channahon, Ill. Project funds will be used for the purchase and installation of a 46kW solar array to help power her farm. This project will realize more than \$5,000 per year in savings, and will replace 14,526 kilowatt hours per year, which is enough energy to power 3 homes.</p>
ILLINOIS	MEIER, CHARLES E	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	09/17/19	0	12,791		<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Sandra Milby is a farmer located in Laurel, Ill. Project funds will be used for the purchase and installation of a 8kW solar array to help power her business. This project will realize more than \$1,300 per year in savings, and will replace 10,081 kilowatt hours per year, which is enough energy to power 1 home.</p>
ILLINOIS	MEISTER, JOANNA	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/17/19	0	5,125		<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Sandra Milby is a farmer located in Laurel, Ill. Project funds will be used for the purchase and installation of a 8kW solar array to help power her business. This project will realize more than \$1,300 per year in savings, and will replace 10,081 kilowatt hours per year, which is enough energy to power 1 home.</p>
ILLINOIS	MILEY, SANDRA C	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/18/19	0	6,348		<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Justin Moffitt is a farmer located in Gilson, Ill. Project funds will be used for the purchase and installation of a 56kW solar array to help power his farm. This project will realize more than \$1,800 per year in savings, and will replace 15,160 kilowatt hours per year, which is enough energy to power 3 homes. The system will also produce another 27,783 kwh that will be sold back to the electric grid.</p>
ILLINOIS	MOFFITT, JUSTIN	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/10/19	0	14,433		<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Justin Moffitt is a farmer located in Gilson, Ill. Project funds will be used for the purchase and installation of a 56kW solar array to help power his farm. This project will realize more than \$1,800 per year in savings, and will replace 15,160 kilowatt hours per year, which is enough energy to power 3 homes. The system will also produce another 27,783 kwh that will be sold back to the electric grid.</p>
ILLINOIS	MOLLN, MELISSA DAWN	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/18/19	0	16,949		<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Melissa Molin is a farmer located in Toulon, Ill. Project funds will be used for the purchase and installation of a 15kW and 22kW solar array to help power her business. This project will realize more than \$4,800 per year in savings, and will replace 41,318 kilowatt hours per year, which is enough energy to power 3 homes.</p>
ILLINOIS	MOORE, STEVE	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	09/20/19	0	3,493		<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Steven Moore is a grain farmer located in Rock Falls, Ill. Project funds will be used for the purchase and installation of a 7kW solar array to help power his farm. This project will realize more than \$2,700 per year in savings, and will generate 8,343 kilowatt hours per year, which is enough energy to power 1 home.</p>

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ILLINOIS	OLSON, DERIC D	EET	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	06/24/19	0	0	20,000	This Rural Development investment will be used to make energy efficiency improvements to the Olson family's home in Proprietown, Ill. This project is anticipated to realize more than \$14,000 per year in savings and will replace 289,872 kilowatt hours (kWh) per year, which is enough energy to power 18,748 kilowatt hours per year, which is enough energy to power 1 home. This project will also provide energy efficiency improvements to rural small businesses in developing renewable energy systems, and is making energy-efficiency improvements to their operations.
ILLINOIS	ORTHOTECH SPORTS MEDICAL EQUIPMENT, INC.	BI	GUARANTEED 8% 3% FEE LOAN	09/27/19	4,262,386	0	0	This Rural Development Business & Industry Loan Guarantees will help to restructure debt, improve cash flow, and provide working capital for the business. The business is a distributor in Herin, Illinois. The structure of debt totaling 3.6 million dollars will be used to open up roughly \$14,000 in cash flow per month. A new spindle lathe will be purchased for the business to improve its production capabilities and increase its working capital. The borrower anticipates hiring 4 to 6 employees paying an average of \$22 per hour as a result of the project. With the added jobs, the facility will provide a total of 21,23 good paying jobs for the community.
ILLINOIS	POPPY, KEITH	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/24/19	0	0	20,000	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Keith Poppy is a swine farmer located in Lynn Center, Ill. This project is anticipated to realize more than \$8,300 per year in savings, which is enough energy to power 1 home. This project will replace 86,037 kilowatt hours per year, which is enough energy to power 8 homes.
ILLINOIS	PULASKI, COUNTY OF	REBEG	PERSISTENT POVERTY RIBCS BUSINESS ENTERPRISE GRANT	05/30/19	0	0	60,000	This Rural Development investment will be used to replace the roof on the Pulaski County building located in the town of Potosi, Mo. The building is a multi-unit residential building for quite some time, and multiple repair attempts have failed to stop the leaks. This incubator houses six small businesses that employ a total of 22 area residents. Leaking water has caused damage to the building and the surrounding area. The project is being funded by the county of the building placed throughout the building to catch the drips. Replacing the roof will allow these businesses and their employees to remain in the incubator space, which will provide jobs for the community. The project will also provide energy efficiency improvements to the building and the surrounding area, and will provide a total of 21,23 good paying jobs for the community.
ILLINOIS	REBBE, GREG	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	07/18/19	0	0	5,707	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Greg Rebbe is a farm seed salesman located in Potosi, Mo. This project is anticipated to realize more than \$4,600 per year in savings, which is enough energy to power 1 home. This project will replace 18,748 kilowatt hours per year, which is enough energy to power 1 home.
ILLINOIS	RENO LAKE DENTAL LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/17/19	0	0	16,061	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Dale Hobert owns a power machine shop in Cobden, Ill. This project is anticipated to realize more than \$2,000 per year in savings, which is enough energy to power 1 home. This project will replace 18,748 kilowatt hours per year, which is enough energy to power 1 home.
ILLINOIS	ROBERT, DALE	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	09/22/19	0	0	10,343	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Dale Hobert owns a power machine shop in Cobden, Ill. This project is anticipated to realize more than \$2,000 per year in savings, which is enough energy to power 1 home. This project will replace 18,748 kilowatt hours per year, which is enough energy to power 1 home.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
ILLINOIS	ROSENGREN FARMS, INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/24/19	0	15,087		This Rural Development Investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Rosengren Farms Inc. is a real estate leasing company located in Rock Falls, Ill. Project funds will be used for the purchase and installation of a 12kW solar array to help power his farm. This project will realize more than \$3,100 per year in savings, and will replace 57,985 kilowatt hours per year, which is enough energy to power 6 homes.
ILLINOIS	ROSS INTERIORS INC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/29/19	0	22,700		This Rural Development Investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Ross Interiors, Inc. is a furniture store located in Lees, Ill. Project funds will be used for the purchase and installation of an 18kW solar array to help power his farm. This project will realize more than \$3,100 per year in savings, and will replace 57,985 kilowatt hours per year, which is enough energy to power 6 homes.
ILLINOIS	RUNYON, BLAKE S	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/10/19	0	10,000		This Rural Development Investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Blake Runyon is a grain farmer located in Tamaqua, Ill. Project funds will be used for the purchase and installation of a 41kW solar array to help power his farm. This project will realize more than \$6,300 per year in savings, and will replace 130,679 kilowatt hours per year, which is enough energy to power 12 homes.
ILLINOIS	SCHORFHEIDE, GREG	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/19/19	0	17,468		This Rural Development Investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Greg Schorfheide is a grain farmer located in Tamaqua, Ill. Project funds will be used for the purchase and installation of a 41kW solar array to help power his farm. This project will realize more than \$6,300 per year in savings, and will replace 130,679 kilowatt hours per year, which is enough energy to power 12 homes.
ILLINOIS	SHAW, WILLARD	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/24/19	0	11,291		This Rural Development Investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Carl Smith is a grain farmer located in Alton, Ill. Project funds will be used for the purchase and installation of a 48kW solar array to help power his farm. This project will realize more than \$14,600 per year in savings, and will replace 27,053 kilowatt hours per year, which is enough energy to power 3 homes.
ILLINOIS	SMITH, CARL P	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/19/19	0	5,172		This Rural Development Investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Carl Smith is a grain farmer located in Alton, Ill. Project funds will be used for the purchase and installation of a 48kW solar array to help power his farm. This project will realize more than \$14,600 per year in savings, and will replace 27,053 kilowatt hours per year, which is enough energy to power 3 homes.
ILLINOIS	SMITH, VICTOR R	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/19/19	0	4,068		This Rural Development Investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Victor Smith is a grain farmer located in Socal, Ill. Project funds will be used for the purchase and installation of a 12kW solar array to help power his farm. This project will realize more than \$3,100 per year in savings, and will replace 57,985 kilowatt hours per year, which is enough energy to power 6 homes.
ILLINOIS	SOUTHEASTERN ILLINOIS COMM FOUNDATION	REEG	RBGS ENTERPRISE GRANTS	07/19/19	0	98,391		This Rural Development Investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The Southeastern Illinois Community Foundation is a 501(c)(3) nonprofit organization that provides grants to support community development projects. The foundation is currently providing grants to support the purchase and installation of renewable energy systems on farms and in rural communities. The foundation is also providing grants to support the purchase and installation of renewable energy systems in rural communities. The foundation is also providing grants to support the purchase and installation of renewable energy systems in rural communities.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
ILLINOIS	SOUTHERN FIVE DEVELOPMENT CORPORATION	RBEG	RBGS ENTERPRISE GRANTS	07/29/19	0	44,428		This Rural Development investment will fund the purchase of a Bobcat Skid Steer and a 16 ft. dump trailer for Southern Five Development Corporation, who will then lease it to Marshall Tree Service. Marshall Tree Service offers tree removal, tree clipping, brush chipping, stump pulling, and stump grinding services. The company is currently unable to obtain financing for this 0 piece of equipment, which will add a great deal of efficiency to the business.
ILLINOIS	SOUTHERN FIVE DEVELOPMENT CORPORATION	RMAP	DISCRETION ASSIST MICROENTERPRENERS	09/24/19	0	15,276		Rural Development Loan funds will be used to capitalize a Rural Microbiz Revolving Fund to provide technical assistance and training to rural microentrepreneurs and microenterprises. The Corporation's rural market includes 5 high unemployment areas and high poverty. Rural Development grant funds will be used to provide technical assistance and training to rural microentrepreneurs and microenterprises. The Corporation's service area includes 11 high unemployment areas and high poverty. Rural Development grant funds will be used to provide technical assistance and training to rural microentrepreneurs and microenterprises. The Corporation's service area includes 11 high unemployment areas and high poverty.
ILLINOIS	SOUTHERN ILL COAL BELT CHAMPION	RMAP	DISCRETION ASSIST MICROENTERPRENERS	09/25/19	0	70,960		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Barb Schwartz is a grain farmer located in Jewett, Ill. Project funds will be used for the purchase and installation of a 13kW and 7kW solar array to help power her family farm. This project will realize more than \$1,700 per year in savings, and will replace 65,194 kilowatt hours per year, which is enough energy to power 14 homes.
ILLINOIS	STARWALT BARB	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/10/19	0	9,022		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. David Thole is a cattle farmer located in Aviston, Ill. Project funds will be used for the purchase and installation of a 13kW and 7kW solar array to help power his farm. This project will realize more than \$2,000 per year in savings, and will replace 26,611 kilowatt hours per year, which is enough energy to power 24 homes.
ILLINOIS	THE RAFTERS RESTAURANT LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/29/19	0	40,000		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Daniel Thole is a cattle farmer located in Aviston, Ill. Project funds will be used for the purchase and installation of a 13kW and 7kW solar array to help power his farm. This project will realize more than \$2,000 per year in savings, and will replace 26,611 kilowatt hours per year, which is enough energy to power 24 homes.
ILLINOIS	THOLE, DANIEL G	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/18/19	0	8,000		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Trister Plastics is a plastic recycling manufacturing company located in Columbia, Ill. Project funds will be used for the purchase and installation of a 7kW solar array to help power the business. This project will realize more than \$6,700 per year in savings, and will replace 16,415 kilowatt hours per year, which is enough energy to power 9 homes.
ILLINOIS	TROST PLASTICS INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/29/19	0	20,862		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Daniel Thole is a cattle farmer located in Aviston, Ill. Project funds will be used for the purchase and installation of a 13kW and 7kW solar array to help power his farm. This project will realize more than \$2,000 per year in savings, and will replace 26,611 kilowatt hours per year, which is enough energy to power 24 homes.
ILLINOIS	TRU BILT FARM AND COMMERCIAL BUILDING CO	BI	GUARANTEED BAI 3% FEE LOAN	05/30/19	1,517,581	0		This Rural Development investment will be used to restructure debt and cover fees. Tru Bilt Farm and Commercial Company Inc is a post-frame metal building construction company located in southern Ill. parts of northern Kentucky and the St. Louis metropolitan area. The debt restructuring will save approximately \$120,000 in annual payments, reducing their current payments by nearly half. This guaranteed loan will help Tru Bilt Farm and Commercial Company Inc and allow them to focus on expansion and providing their services for decades to come.

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
ILLINOIS	TWOMEY COMPANY	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/18/19	0	3,885	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Twomey Company is a grain farming operation located in Illinois. Project funds will be used for the purchase and installation of a 11kW solar array to help power this farm. This project will realize more than \$1,500 per year in savings, and 0 will replace 12,414 kilowatt hours per year, which is enough energy to power 1 home.
ILLINOIS	VAREL GREGORY A	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/18/19	0	7,525	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Gregory Varel is a farmer located in Butler, Ill. Project funds will be used for the purchase and installation of an 11kW solar array to help power his farm. This project will realize more than \$1,500 per year in savings, and will replace 10,550 kilowatt hours per year, which is enough energy to power 1 home.
ILLINOIS	W.M. AUTOMOTIVE, INC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/29/19	0	19,875	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. W.M. Automotive, Inc. is a business located in Carlinville, Ill. Project funds will be used for the purchase and installation of a 50kW solar array to help power the business. This project will realize more than \$12,000 per year in savings, and will replace 132,640 kilowatt hours per year, which is enough energy to power 0 12 homes.
ILLINOIS	WANDS, GUY	RES	MANC. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/17/19	0	6,160	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Guy Wands is a farmer located in Macomb, Ill. Project funds will be used for the purchase and installation of a 10kW solar array to help power the business. This project will realize more than \$1,700 per year in savings, and will replace 13,893 kilowatt hours per year, which is enough energy to power 1 home. The 0 business will also be saving 11,115 kilowatt hours each to the electric grid.
ILLINOIS	WAYNE WHITE COUNTIES ELECTRIC COOP. INC.	REDLG	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	09/10/19	0	0	280,000	This Rural Development investment will be used to provide a loan to Wayne-White Electric Cooperative who will relate the funds to the Fairfield Rural Fire Protection District. Funds will be used to purchase and install fire fighting equipment for the district. The equipment and its equipment is vital to the rural residents that live in the 300 square mile coverage area of the District. This project will also help level 1 job.
ILLINOIS	WENSTROM, PHILLIP	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/18/19	0	18,178	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Phillip Wenstrom is a farmer of real estate located in Ononda, Ill. Project funds will be used for the purchase and installation of a 37kW solar array to help power the farm he owns. This project will realize more than \$5,000 per year in savings, and will replace 52,031 kilowatt hours per year, which is enough energy to power 4 0 homes.
ILLINOIS	WERNISING, LARRY D	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/18/19	0	20,000	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Larry Wernising is a swine farmer located in Raymond, Ill. Project funds will be used for the purchase and installation of a 46kW solar array to help power the farm he owns. This project will realize more than \$3,500 per year in savings, and will replace 45,527 kilowatt hours per year, which is enough energy to power 6 homes.
ILLINOIS	WESSELS, UNDER J	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/18/19	0	17,500	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Weswells, Under J is a farmer located in Ononda, Ill. Project funds will be used for the purchase and installation of a 13kW and 18kW solar array to help power the farm. This project will realize more than \$5,500 per year in savings, and will replace 43,279 kilowatt hours per year, which is enough energy to power 4 homes.

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
ILLINOIS	WESTERN ILLINOIS UNIV. FOUNDATION	REEG	REEG'S ENTERPRISE GRANTS	07/18/19	0	50,000	0	<p>This Rural Development investment will be used to assist Western Illinois University Foundation to provide technical assistance to at least 35 small and emerging rural businesses and entrepreneurs in Moultrie and Pike counties. The foundation has been awarded \$50,000 in grant funds to provide the coordination of business retention and expansion efforts, including the development of business retention and expansion development of community websites that promote local businesses, coordination of trainings for local businesses and entrepreneurs on topics such as business planning, customer service, and marketing, and the development of business retention and expansion topics. The grantees will contribute \$57,481 of their own funds to complete this project.</p> <p>This Rural Development investment will be used to help fund the operations of the Illinois Cooperative Development Center, which is housed within the Illinois Institute for Rural Development. The center provides technical assistance to rural cooperatives across Illinois (and possibly into other Midwestern states), their focus in this grant will be to 1) help develop cooperatively-owned grocery stores in small, rural communities that have to travel long distances for fresh, healthy food products due to the lack of their local grocery stores, and 2) help encourage rural residents to start their own projects in rural communities to allow rural residents to participate in clean energy projects that can lower their utility costs, and 3) help explore the possibility of developing cooperative projects in rural communities that can provide housing for rural residents. The project will contribute \$57,481 of their own funds to complete this project.</p> <p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Wild Rose Farms is a grain farmer located in Gibson, IL. Project funds will be used for the purchase and installation of a 30kW and 59kW solar array to help power the farm. This project will realize more than \$3,600 per year in savings, and will replace 131,882 kilowatt-hours per year, which is enough energy to power 12 homes.</p> <p>This Rural Development loan guarantee investment will be used to assist a small, family-owned cat wash business in Shelby county, Illinois to allow them to restructure debt and improve their cash flow. The business is currently struggling due to a large amount of debt and restructuring will help to retain the business in the rural town of Windsor, Illinois. The nearest carwash to the town is over 11 miles away. The project will create 1 job, assist 1 small business and provide services to the town of Windsor, Illinois and the surrounding area. The project will realize \$5,132 per year in savings, and will replace 42,674 kWh (22.89%) per year.</p>
ILLINOIS	WESTERN ILLINOIS UNIV. BOARD OF TRUSTEES	RCDG	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/04/19	0	200,000	0	<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Wild Rose Farms is a grain farmer located in Gibson, IL. Project funds will be used for the purchase and installation of a 30kW and 59kW solar array to help power the farm. This project will realize more than \$3,600 per year in savings, and will replace 131,882 kilowatt-hours per year, which is enough energy to power 12 homes.</p>
ILLINOIS	WILD ROSE FARM INC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/20/19	0	20,000	0	<p>This Rural Development loan guarantee investment will be used to assist a small, family-owned cat wash business in Shelby county, Illinois to allow them to restructure debt and improve their cash flow. The business is currently struggling due to a large amount of debt and restructuring will help to retain the business in the rural town of Windsor, Illinois. The nearest carwash to the town is over 11 miles away. The project will create 1 job, assist 1 small business and provide services to the town of Windsor, Illinois and the surrounding area. The project will realize \$5,132 per year in savings, and will replace 42,674 kWh (22.89%) per year.</p>
ILLINOIS	WINDSOR CAR WASH, LLC	BI	GUARANTEED 84% 3% FEE LOAN	01/28/19	231,633	0	0	<p>This Rural Development investment will be used to make energy efficiency improvements to the Windsor Car Wash facility. The project will be used to purchase and install energy efficient lighting equipment and LED lighting. The project will realize \$5,132 per year in savings, and will replace 26,515 kWh (58%) per year, which is enough energy to power 2 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.</p>
INDIANA	ADAMS SWINE FARMS, LLC	EEL	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/14/19	0	15,318	0	<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. The project will be used to purchase and install a 3.74 kW roof mounted solar array. This project will realize \$4,356 per year in savings, and will replace 42,674 kWh (22.89%) per year.</p>
INDIANA	AWS PROPERTIES, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/17/19	0	19,318	0	<p>This Rural Development investment will be used for the purchase and installation of a 90 kW solar array. Dan and Deb Beer have a family farm, the will realize \$13,640 per year in savings, and will replace 111,953 kWh (100%) per year. This project will save enough energy to power 10 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.</p>
INDIANA	BEER, DAN	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/20/19	0	43,350	0	<p>This Rural Development investment will be used for the purchase and installation of a 90 kW solar array. Dan and Deb Beer have a family farm, the will realize \$13,640 per year in savings, and will replace 111,953 kWh (100%) per year. This project will save enough energy to power 10 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.</p>

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
INDIANA	BOWMAN & BOWMAN FARMS INC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/12/19	0	20,000		<p>This Rural Development investment will be used for the purchase and installation of a 37 kW solar array for the Bowman Farms in Adams County, IN. The project will replace 50,264 kWh (82%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
INDIANA	C BAR C E/PO CENTER LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/24/19	0	100,000		<p>This Rural Development investment will be used for the purchase and installation of a 405 kW solar array for the Bowman Farms in Adams County, IN. The project will replace 549,333 kWh (104%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
INDIANA	CHALFANT FARMS INC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	10,300		<p>This Rural Development investment will be used for the purchase and installation of a 405 kW solar array for the Bowman Farms in Adams County, IN. The project will replace 549,333 kWh (104%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
INDIANA	COVINGTON BOX & PACKAGING INC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/09/19	0	230,970		<p>This Rural Development investment will be used for the purchase and installation of a 28 kW solar array. DMD Electric, a family owned business and will realize \$4,262 per year in savings, and will replace 25,343 kWh (101%) per year. The project will save enough electricity to power 100 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
INDIANA	DMD MAINTENANCE DBA DMD ELECTRIC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/15/19	0	14,750		<p>This Rural Development investment will be used for the purchase and installation of a 18.2 kW solar array. Steve Doerner is a family owned firm, will realize \$3,483 per year in savings, and will replace 25,343 kWh (101%) per year. The project will save enough electricity to power 100 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
INDIANA	DOERNIER, STEVEN	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/14/19	0	8,062		<p>This Rural Development investment will be used for the purchase and installation of a 18.2 kW solar array. Steve Doerner is a family owned firm, will realize \$3,483 per year in savings, and will replace 25,343 kWh (101%) per year. The project will save enough electricity to power 100 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
INDIANA	DUNLAP GARY	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/31/19	0	49,850		<p>This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a grain dryer. Gary Dunlap owns a family grain farming operation in Vesperiano, IN. This project will realize \$5,502 per year in savings, and will replace 203,233 kWh (52%) per year, which is enough electricity to power 100 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
INDIANA	DURKES DALE ALLON	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/30/19	0	19,814		<p>This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a grain dryer. Dale Allon Durkes is an Ag Producer. This project will realize \$6,980 per year in savings, and will replace 89,358 kWh (56%) per year, which is enough energy to power 100 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
INDIANA	EAST-TERRA HARDWARE SUPPLY, LLC	EET	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	06/26/19	0	13,429		<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Established in 2016, East-Terra Hardware Supply, LLC (dba East-Terra Plastics) recycles post-consumer and post-industrial plastics at their facility in Ellettsburg, Indiana. The facility has installed solar panels and solar water heating equipment with high efficiency LEDs. This project will realize \$10,833 per year in savings and will save 109.411 kWh of electricity per year (78.61%) which enough electricity to power 10 homes.</p> <p>This Rural Development loan guarantee investment will be used to make energy efficiency improvements with the purchase and installation of a grain dryer. Darrell Ebs owns and operates a family farm that raises oiled and gain in Francineville, Indiana. This project will realize \$8,169 per year in energy savings and will replace 77,853 kWh (43.36%) per year, enough energy to power 13 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
INDIANA	ERL DARRELL G	EET	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	04/01/19	0	12,441		<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. F & K Construction is a rural small business in Fort, IN, that has installed solar panels and solar water heating equipment with high efficiency LEDs. This project will realize \$8,169 per year in energy savings, and will replace 77,853 kWh (43.36%) per year, enough energy to power over 7 homes.</p> <p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Project funds will be used for the purchase of a 9 kW solar array. Form-it Corp, a rural small business, will realize \$1,902 per year in savings and will replace 13,002 kWh (97.44%) per year.</p>
INDIANA	F & K CONSTRUCTION	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	20,000		<p>This Rural Development investment will be used for the purchase and installation of a 37 kW solar array. Furrer Crop Farms, a family owned farm, will realize \$7,611 per year in savings, and will replace \$1,318 kWh (100%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
INDIANA	FORM-IT CORP.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/17/19	0	5,825		<p>This Rural Development investment will be used to provide access to capital to purchase medical equipment for a rural patient care and diagnostic facility with the local regional hospital. Hancock Rural Telephone Corp (dba HineStar Connect) is a cooperative utility providing both electric and telecommunications services to over 14,000 commercial and residential customers in Hancock County, Indiana. HineStar Connect, a subsidiary of Hancock Regional Hospital (dba Hancock Health) has grown into a full-service healthcare network of more than 20 facilities serving Hancock County and the surrounding areas. The hospital is a leading provider of medical services, including diagnostic imaging and medical imaging services to rural patients. Agency investment will be leveraged with over \$800,000 of funds contributed by Hancock Regional Hospital and Hancock Regional Hospital. Project is a part of a multi-year effort to build a new patient care and diagnostic facility with an average usage of more than 500 per hour.</p>
INDIANA	FURRER CROP FARMS	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/24/19	0	20,000		
INDIANA	GREENCASTLE PUTNAM COUNTY DEV CENTER INC	RIBEG	RIBEG ENTERPRISE GRANTS	06/21/19	0	44,400		
INDIANA	HANCOCK RURAL TELEPHONE CORP	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (TELEPHONE)	05/24/19	0	300,000		

RBKS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
INDIANA	HANCOCK RURAL TELEPHONE CORP	REDUG	RURAL ECONOMIC DEVELOPMENT LOANS (TELEPHONE)	05/23/19	0	0	2,000,000	This Rural Development investment will be used to provide access to capital to purchase and install a new telephone system for the Harco Regional Hospital. Harco Regional Hospital is a cooperative utility providing both electric and telecommunications service to over 14,000 commercial and residential customers in Harco County, Indiana. Harco Regional Hospital (d/b/a Harco Health) has grown into a full-service healthcare network of more than 20 facilities serving Harco County and the surrounding areas. Project funds will be used to provide the hospital capital to purchase office and medical imaging services to rural patients. Agency investment will be leveraged with over \$800,000 of funds contributed by Harco Regional Telephone and Harco Regional Hospital. Project is expected to result in the creation of 27 new jobs with an average wage of more than \$26 per hour.
INDIANA	HATT M & B FARMS LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/20/19	0	10,481	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 33kW solar array. This project will realize \$3,773 per year in savings, and will replace 32,027 kWh (100%) per year.
INDIANA	HOME SWEET HOME PROPERTIES LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/01/19	0	14,109	0	This Rural Development investment will be used for the purchase and installation of a 22.44 kW solar array. Home Sweet Home Properties, which is a small business, leases commercial buildings with leased office space to tenants for commercial uses, will realize savings of \$2,406 per year in savings, and will replace 13,821 kWh (100%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
INDIANA	HOME SWEET HOME PROPERTIES LLC	EEl	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	04/01/19	0	1,869	0	This Rural Development investment will be used to make energy efficiency improvements to commercial buildings with leased office space to tenants for commercial uses. This project will realize \$2,406 per year in savings, and will replace 13,821 kWh (100%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
INDIANA	HOSMER ENERGY RURAL ELECTRIC COOP	REAR	REAP ENERGY AUDIT RECIPENT	03/25/19	0	25,000	0	This Rural Development investment will be used throughout central and southern Indiana to conduct approximately 10 energy audits for rural businesses and agricultural producers. These audits will provide analysis to make energy-efficiency improvements to commercial buildings with leased office space to tenants for commercial uses. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
INDIANA	HOWARD SWINE FARMS LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/25/19	0	31,887	0	This Rural Development funds investment will be used for the purchase and installation of a \$4 MW solar array. Howard Swine Farms LLC is a family owned farming operation in Cass County, Ind. This project will realize \$14,112 per year in savings, and will replace 131,821 kWh (100%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
INDIANA	HUNLEY FARMS, LLC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	09/09/19	0	46,359	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Hunley Farms, LLC is a family owned farm located in rural Indiana. This project will realize \$4,554 per year in savings, and will replace 64,760 kWh (59.09%) per year which is enough electricity to power 6 homes.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
INDIANA	HUNTINGTON PROPERTIES, LLC	BI	GUARANTEED BAI 3% FEE LOAN	06/18/19	560,000	0	0	This Rural Development investment will be used for the acquisition of the strip mall property located at 1245 South 0 Jefferson Street Huntington, Indiana.
INDIANA	ICDC INC.	RDOG	RURAL COOPERATIVE DEVELOPMENT GRANTS	03/30/19	0	200,000	0	Rural Development funds will be used to provide technical assistance and education to 0 businesses, especially cooperative or mutually owned businesses.
INDIANA	JOSH FIECHTER FARMS, INC.	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/30/19	0	40,911	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a grain dryer. Josh Fiechter Farms, Inc. is a family owned business located in Ellettsburg, Indiana. The business has a 13,131 sq ft facility that will be replaced with a 13,131 sq ft facility. The project will save enough energy to power 13 homes. The purpose of this funding program is to assist farmers, ranchers, and businesses in making energy efficiency improvements to their operations.
INDIANA	J8 FARMS, INC.	EEl	MAND ENERGY EFFIC IMPROV GRANTS UNDER \$25,000	06/20/19	0	20,000	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. The project will save enough energy to power 20 homes. The project will save enough energy to power 20 homes.
INDIANA	KOSCIUSKO DEVELOPMENT INC	RREG	RBGS ENTERPRISE GRANTS	07/24/19	0	20,000	0	This Rural Development investment will be used to create a Technical Assistance fund to assist small and emerging businesses, within Kosciusko County, that employ 50 or fewer employees and have less than \$1 million in proposed gross revenues.
INDIANA	KOSCIUSKO DEVELOPMENT INC	RREG	RBGS ENTERPRISE GRANTS	07/24/19	0	40,000	0	This Rural Development investment will be used for the purchase and installation of a 33.6 MW solar array. Lakeland Animal Clinic, a rural small business, that will realize \$3,608 per year in savings, and will replace 44,359 kWh (159%) per year. The project will save enough energy to power 10 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
INDIANA	LAKELAND ANIMAL CLINIC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/17/19	0	24,484	0	This Rural Development investment will be used for the purchase and installation of an 81 solar array. Daniel K. Lamey is an agricultural producer in Gibson County, IN, will realize \$1,315 per year in savings, and will generate 11,492 kWh (179%) per year. This project will save enough electricity to power one home. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
INDIANA	LAMEY, DANIEL K	RES	MAND RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	3,024	0	This Rural Development investment will be used for the purchase and installation of a 71.4 solar array. Daniel K. Lamey is an agricultural producer in Gibson County, IN, will realize \$1,315 per year in savings, and will generate 11,492 kWh (179%) per year. This project will save enough electricity to power 10 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
INDIANA	LITTLE CLAY HILL FARMS, INC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/09/19	0	46,219	0	This Rural Development investment will be used for the purchase and installation of three solar arrays: one 56kW, one 42kW and one 23kW. Maple Farms GP, an Ag Producer, will realize \$3,608 per year in savings, and will replace 44,359 kWh (159%) per year. The project will save enough energy to power 12 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
INDIANA	MAPLE FARMS GP	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/25/19	0	55,000	0	This Rural Development investment will be used for the purchase and installation of three solar arrays: one 56kW, one 42kW and one 23kW. Maple Farms GP, an Ag Producer, will realize \$3,608 per year in savings, and will replace 44,359 kWh (159%) per year. The project will save enough energy to power 12 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
INDIANA	MARSHALL COUNTY EDC	REGO	RBGS ENTERPRISE GRANTS	07/09/19	0	0	90,000	This Rural Development investment will be used to assist small and emerging businesses in rural Indiana. The project will assist in the development of a Rural Opportunity Zone in Marshall County, Indiana, which will provide access to capital that will facilitate growth and stability for small rural businesses. This project is expected to create or save up to 25 jobs in and around the service area.
INDIANA	MCILL DOUGLAS	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/31/19	0	19,865		This Rural Development investment will be used for the purchase and installation of a 35 kW solar array on the family farm of Douglas and Patricia McGill. This project will save \$0,731 per year in savings. The project will assist in the development of a Rural Opportunity Zone in Marshall County, Indiana, which will provide access to capital that will facilitate growth and stability for small rural businesses. This project is expected to create or save up to 25 jobs in and around the service area.
INDIANA	MIDWEST POULTRY SERVICES, LP	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/09/19	0	153,304		This Rural Development investment will be used for the purchase and installation of a 1.11 MW solar array. N & L Pork, a woman owned business, will realize \$15,017 per year in savings. The project will assist in the development of a Rural Opportunity Zone in Marshall County, Indiana, which will provide access to capital that will facilitate growth and stability for small rural businesses. This project is expected to create or save up to 25 jobs in and around the service area.
INDIANA	MILKOLIN, PAMELA	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/20/19	0	7,306		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Pamela Milkolin is an agricultural producer who operates a family owned farm located in rural Randolph County. Project funds will be used for the purchase and installation of a 1 kW solar array. This project will realize \$2,054 per year in savings and will replace 24,389 kWh (1.05%) per year.
INDIANA	N & L PORK, INC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/04/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a 111 kW solar array. N & L Pork, a woman owned business, will realize \$15,017 per year in savings. The project will assist in the development of a Rural Opportunity Zone in Marshall County, Indiana, which will provide access to capital that will facilitate growth and stability for small rural businesses. This project is expected to create or save up to 25 jobs in and around the service area.
INDIANA	PAHS ROAD VENTURE, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/26/19	0	97,500		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Pahr Road Ventures, LLC is a newly created entity for the purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will realize \$2,054 per year in savings and will replace 24,389 kWh (1.05%) per year.
INDIANA	PETERS FARMS LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/09/19	0	49,750		This Rural Development investment will be used for the purchase and installation of a 12.6 kW solar array. Premier Roofing and Construction, will realize \$8,175 per year in savings. The project will assist in the development of a Rural Opportunity Zone in Marshall County, Indiana, which will provide access to capital that will facilitate growth and stability for small rural businesses. This project is expected to create or save up to 25 jobs in and around the service area.
INDIANA	PREMIER ROOFING & CONSTRUCTION, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/03/19	0	14,476		This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
INDIANA	PURDUE UNIVERSITY	RBDO	RBGS DEVELOPMENT GRANT	07/17/19	0	69,000		This Rural Development investment will be used to spur development of small and emerging businesses in rural Indiana. This project will assist and educate leaders of rural Indiana in the development of a Rural Opportunity Zone in Marshall County, Indiana, which will provide access to capital that will facilitate growth and stability for small rural businesses. This project is expected to create or save up to 25 jobs in and around the service area.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
INDIANA	RUSH COUNTY ECDC	REEG	RBGS ENTERPRISE GRANTS	07/12/19	0	75,000	0	This Rural Development Investment will be used to provide access to capital for small and medium-sized businesses in Rush County, Indiana. The project will be implemented through an established revolving loan fund. Rush County Economic and Community Development Corporation has partnered with the Agency since 2001. Project will create or support five 0 rural jobs.
INDIANA	SHREYAN HOTELS, LLC	BI	GUARANTEED BAI 3% FEE LOAN	03/19/19	3,500,000	0	0	This Rural Development loan guarantee investment will be used to advance an existing loan for a Fairfield Inn hotel located in Princeton, IN. The reference request is in the amount of \$5.5 million consisting of debt refinancing (\$3.18 M), working capital (\$200K), USDA Guaranteed Loan Fund (GLF) financing (\$1.5 M), and a cash contribution of \$100,000. The monthly payment and access to working capital. Benefits to the community are retention of the local business and maintaining 22 local jobs, which is a huge economic impact for this 0 rural community.
INDIANA	SICKAFOOSE, CORY E.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/09/19	0	34,000	0	This Rural Development investment will be used for the purchase and installation of a 55 kW solar array on the family farm of Cory Sickafosse. The project will replace 76,352 kWh (95%) per year and realize \$9,135 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy 0 systems, and in making energy-efficiency improvements to their operations.
INDIANA	SOUTHEASTERN INDIANA IPC	REEG	RBGS ENTERPRISE GRANTS	07/12/19	0	180,700	0	This Rural Development investment will be used to extend high-speed fiber optic infrastructure to small, emerging and underserved businesses along a three-mile commercial corridor in Jefferson County, Indiana. The project will increase e-Connectivity to 7 small and emerging 0 businesses and support over 60 jobs.
INDIANA	STAUNTON SOLAR LLC	BI	GUARANTEED BAI 3% FEE LOAN	11/01/18	3,600,000	0	0	This Rural Development loan guarantee investment will be used to provide permanent long-term financing for the purchase and installation of a 250 kW solar array on the family farm of Alexander Steiner in Clay County, Indiana. The project will sell clean renewable energy to the electric grid through a Power Purchase Agreement (PPA) with Duke Energy Indiana, LLC. Year-1 savings are estimated at \$10,000. The project will provide access to working capital and power 874 homes. The purpose of this funding program is to bolster the availability of private credit and provide financial backing for rural businesses by guaranteeing loans for 0 rural businesses.
INDIANA	STEINER, ALEXANDER L	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/09/19	0	19,978	0	This Rural Development investment will be used for the purchase and installation of a 25.1 kW solar system. Alexander Steiner is a RSB that has a call feeding operation. The system is estimated to produce 32,238 kWh per year, which is enough electricity to power 3 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency 0 improvements to their operations.
INDIANA	STEPHAN, CHRIS	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/09/19	0	14,368	0	This Rural Development investment will be used for the purchase and installation of a 25 kW solar system. Chris Stephan is a RSB that has a call feeding operation. The system is estimated to produce 32,238 kWh per year, which is enough electricity to power 3 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy 0 systems, and in making energy-efficiency improvements to their operations.
INDIANA	TOTAL SEED PRODUCTION INC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/25/19	0	83,332	0	This Rural Development investment will be used for the purchase and installation of a 239 kW, 1,112 kW and 208 kW solar arrays. Total Seed Production, an Ag Producer, will realize \$265,305 per year in savings and will replace 2,143,343 kWh (97%) per year. This project is estimated to produce 32,238 kWh per year, which is enough electricity to power 3 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy 0 systems, and in making energy-efficiency improvements to their operations.
INDIANA	TOWN OF FILLMORE	REEG	RBGS ENTERPRISE GRANTS	06/21/19	0	92,360	0	This Rural Development, Rural Business Development Grant (RBDG) investment will be used to assist the Town of Fillmore, Indiana, in developing a new business section. The project will include improvements to the sidewalks, lighting, striping of crosswalks and parking to assist in 0 developing the business section of town.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
IOWA	BADER, LEE	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/30/19	0	0	19,769	This Rural Development investment will be used for the purchase and installation of a 95.2 kW solar array by Bader, Lee in Van Horn, IA. This project will replace 118,477 kWh (100% per year) in savings and will replace 118,477 kWh (100% per year). The project will save enough electricity to power 10 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
IOWA	BENSON, MICHAEL E	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/18/19	0	0	6,815	This Rural Development investment will be used for the purchase and installation of a 17.8 kW solar array by Benson, Michael E in Van Horn, IA. This project will replace 22,325 kWh (100% per year) in savings and will replace \$3,325 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
IOWA	BENTON GRAIN COMPANY, LLC	EEI	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	06/04/19	0	0	19,671	This Rural Development investment will be used to make energy efficiency improvements in an existing business located near Riceville, Iowa. The borrower, Big Ox Energy-Riceville, LLC is an existing business established in February 2015 for the purpose of serving customers in the Riceville area. The project will replace 770,842 kWh (57.23% per year) in savings, and will replace \$21,546 per year in savings. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
IOWA	BIG OX ENERGY-RICEVILLE, LLC	BI	GUARANTEED 84% 3% FEE LOAN	10/30/18	4,018,000	0	0	This rural development guaranteed loan investment will be used to enhance existing debt, associated with this request located near Riceville, Iowa. The borrower, Big Ox Energy-Riceville, LLC is an existing business established in February 2015 for the purpose of serving customers in the Riceville area. The project will replace 770,842 kWh (57.23% per year) in savings, and will replace \$21,546 per year in savings. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
IOWA	BOOTHHEEL FARM, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/25/19	0	0	11,250	This Rural Development investment will be used for the purchase and installation of a 30.66 kW solar array by Boothheel Farm, LLC in Van Horn, IA. This project will replace 38,537 kWh (100% per year) in savings and will replace \$3,537 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
IOWA	BORMANN, WILLIAM N	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	0	15,250	This Rural Development investment will be used for the purchase and installation of a 43.2 kW solar array. William Borman who has produced feed for over 11,000 head of hogs annually, will realize \$8,157 per year in savings, and will replace 63,148 kWh (110% per year) in savings. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
IOWA	BOULDERS INN MANCHESTER, LLC	BI	GUARANTEED 84% 3% FEE LOAN	12/03/18	2,044,373	0	0	This guaranteed loan investment will be used to provide long term financing for construction of a 32-room hotel in Manchester, Iowa. The hotel will operate under the Boulder's name and is expected to create 9 jobs in the rural community. Supplemental funds for the project are coming from Borrower Contributions (\$400,000) and the City of Manchester (\$150,000).
IOWA	BROAD STREET DIESEL & PERFORMANCE, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/18/19	0	0	12,000	This Rural Development investment will be used for the purchase and installation of a 23.4 kW solar array by Broad Street Diesel and Performance. This project will replace 32,629 kWh (100% per year) in savings and will replace \$2,629 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
IOWA	BUTLER COUNTY RURAL	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	06/06/19	0	258,333	0	This Rural Development investment will be used by Butler County REC to provide a passive solar water heating system for a new building. The project will replace 11,000 kWh (100% per year) in savings and will replace \$1,100 of savings per year. The project includes expanding the existing office capacity, incorporating new technology and connectivity, creating new jobs, and increasing access to dental healthcare for rural residents in the region.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
IOWA	BUTLER COUNTY RURAL	REDLG	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	05/22/19	0	0	2,000,000	This Rural Development loan investment will be a \$2,000,000 pass-through loan from Butler County Rural Electric Cooperative to assist in the expansion of freight rail transportation services to Northeast Iowa. This loan will assist with the expansion of a rail yard by adding 100,000 cubic yards of storage capacity and 100,000 cubic yards of storage capacity located near Shell Rock, Butler County, Iowa. This expansion of the current Butler yard (a rail yard) capacity in Butler County to allow for increased car classification, staging of unit trains, and increased storage capacity for unit trains. The project will be completed by 12/31/2020. The purpose of this funding program is to provide loans to rural utilities program borrowers to promote economic development.
IOWA	BUTLER COUNTY RURAL	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/12/19	0	20,000	0	This Rural Development investment will be used for the purchase and installation of a 222 kW solar panel system for Butler County Rural Electric Cooperative. The project will result in savings, and will replace 296,158 kWh per year. This project will save enough electricity to power 27 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency, solar, and in making energy efficiency improvements to their operations.
IOWA	CAH LIVESTOCK LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/27/19	0	11,585	0	This Rural Development investment will be used for the purchase and installation of a 33 kW solar panel system for Cah Livestock LLC. The project will result in savings, and will replace 47,262 kWh (107%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
IOWA	CENTRAL IOWA POWER COOPERATIVE	REDLG	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	05/22/19	0	0	1,452,000	This Rural Development loan investment will be used to provide economic development. Central Iowa Power Cooperative will provide a pass-through loan to J.J. Nickling Company, Inc. in Sigourney, Iowa. This investment will assist the business expansion of the local meat processing facility and create 12 jobs and retain 14 jobs.
IOWA	CITY OF ORANGE CITY	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	06/04/19	0	236,103	0	This Rural Development investment will be used to replenish an existing revolving loan fund that is administered by the City of Orange City. The initial loan will assist Orange City in purchasing new equipment. Through the Rural Economic Development Loan and Grant (REDLG) program, funds are used to provide loans and grants to promote economic development.
IOWA	CML TELEPHONE COOPERATIVE ASSOCIATION	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (TELEPHONE)	05/29/19	0	300,000	0	This Rural Development investment will be used to replenish an existing revolving loan fund that is administered by Corn Belt Power Cooperative in Humboldt, IA. The initial loan will assist Corn Belt Power Cooperative in purchasing new equipment. Through the Rural Economic Development Loan and Grant (REDLG) program, funds are used to provide loans and grants to promote economic development.
IOWA	CORN BELT POWER COOPERATIVE	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	05/01/19	0	300,000	0	This Rural Development investment will be used to increase an existing revolving loan fund that is administered by Corn Belt Power Cooperative in Humboldt, IA. The initial loan will assist Corn Belt Power Cooperative in purchasing new equipment. Through the Rural Economic Development Loan and Grant (REDLG) program, funds are used to provide loans and grants to promote economic development.
IOWA	CORN BELT POWER COOPERATIVE	REDLG	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	09/12/19	0	0	640,000	This Rural Development investment will be a \$640,000 pass-through loan to Corn Belt Power Cooperative who will re-lent the dollars to Hancock County Health System, a county owned critical access hospital in Britt, Iowa. Loan funds will be used to assist with renovations to modernize the hospital. Additionally, the loan will be used to assist with the purchase of new medical equipment. The purpose of this funding program is to provide loans to rural utilities program borrowers to promote economic development.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
IOWA	COX-SMITH FUNERAL AND CREMATION SERVICE	BI	GUARANTEED B&I 3% FEE LOAN	07/18/19	413,000	0	0	This rural development guaranteed loan investment will allow a new funeral home to be established in Grinnell, Iowa creating 2 full time jobs. The borrower, Cox-Smith Funeral and Cremation Service, Inc., is a female-owned business established in 2018. Funds will be leveraged with an additional \$103,346 borrower equity into the project. This program 0 bolsters the availability of private credit by guaranteeing loans for rural businesses.
IOWA	COX-SMITH FUNERAL AND CREMATION SERVICE	BI	GUARANTEED B&I 3% FEE LOAN	07/18/19	36,200	0	0	This rural development guaranteed loan investment will allow a new funeral home to be established in Grinnell, Iowa creating 2 full time jobs. The borrower, Cox-Smith Funeral and Cremation Service, Inc., is a female-owned business established in 2018. Funds will be leveraged with an additional \$103,346 borrower equity into the project. This program 0 bolsters the availability of private credit by guaranteeing loans for rural businesses.
IOWA	DMIMTT, WENDELL R.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/12/19	0	3,000	0	This Rural Development investment will be used for the purchase and installation of 5 kW solar array on the family farm of Wendell Dimmitt. This project will replace 7,628 kWh (92.2%) per year and realize \$1,261 of savings per year. The purpose of this funding 0 energy systems, and in making energy-efficiency improvements to their operations.
IOWA	EAST-CENTRAL IOWA RURAL ELECTRIC COOP	REDLG	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	07/11/19	0	0	0	This Rural Development investment will be used by East-Central Iowa Rural Electric Cooperative to provide a pass-through loan to assist Pipko & Gringrich Family Dentistry with the purchase of dental X-ray and purchase of equipment in Dykott, Iowa. This 0 project will create 4 new jobs.
IOWA	F & B COMMUNICATIONS INC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	19,837	0	This Rural Development investment will be used for the purchase and installation of a 55 kW solar array on the family farm of F&B Communications, Inc. This project will replace 89,742 kWh per year in savings, and will replace 89,162 kWh (95%) per year. This project is to 0 assest farmers, ranchers, and rural small businesses in developing renewable energy systems, and making energy-efficiency improvements to their operations.
IOWA	FAMILY TRADITIONS MEAT COMPANY	BI	GUARANTEED B&I 3% FEE LOAN	11/13/18	1,148,880	0	0	This guaranteed loan investment will be used to transfer ownership of an existing meat processing facility in Ackley, Iowa. Loan funds will be used to acquire all business assets allowing the facility to remain operational and retain 12 employees under the family 0 ownership. This project will create 3 jobs in the rural community.
IOWA	FANCKETT FARMS INC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/18/19	0	13,320	0	This Rural Development investment will be used for the purchase and installation of a 29 kW solar array. Fanckett Farms, Inc., will realize \$5,57.35 per year in savings, and will replace 71,642 kWh (100%) per year. This project will save enough 0 energy to power 10 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and making energy-efficiency improvements to their operations.
IOWA	FIZZIX, L.L.C.	BI	GUARANTEED B&I 3% FEE LOAN	08/28/19	637,850	0	0	This rural development guaranteed loan investment will be used to purchase machinery and equipment for Fizzix, L.L.C. in Ottumwa, Iowa. Fizzix is a rural manufacturing company that makes 0 Program bolsters the availability of private credit by guaranteeing loans for rural businesses.
IOWA	FOLKMAN FARMS LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/14/19	0	17,239	0	This Rural Development investment will be used for the purchase and installation of a 35 kW solar array. Folkman Farms LLC, a family owned farm, will realize \$8,490 per year in savings and will replace 71,642 kWh (100%) per year. This project will save enough 0 energy to power 10 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
IOWA	FOSS FARM CORPORATION	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/04/19	0	11,000	0	This Rural Development investment will be used for the purchase and installation of a 38.78 kW solar array. Foss Farm Corporation is a family farm operation that will realize \$4,048 per year in savings and will replace 53,945 kWh (98%) per year. The project will save enough 0 energy to power 10 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
IOWA	FRANKLIN RURAL ELECTRIC COOPERATIVE	REDLG	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	05/22/19	0	0	2,000,000	This Rural Development loan investment will be used to assist Global Fabrication Inc. to purchase and make improvements to a 30,000 square foot building for business expansion. Global Fabrication is a full-service fabrication shop in Hampton, IA, which specializes in custom metal fabrication and welding. Through the Rural Economic Development Loan and Grant (REDLG) program, funds are used to provide loans to rural utilities program borrowers to promote economic development. This rural development guaranteed loan investment will be used to purchase machinery and equipment for Franklin Rural Electric Cooperative, a rural electric utility serving a farming community that makes wheelchair components for the healthcare industry. The Business and Industry Guaranteed Loan Program borrows the availability of private credit by guaranteeing 0 loans for rural businesses.
IOWA	FROGLISS INC.	BI	GUARANTEED BAI 3% FEE LOAN	08/28/19	462,211	0	0	This Rural Development investment will be used for the purchase and installation of 13 solar arrays totaling a 453 kW. General Swine Properties, LLC, a family-owned hog finishing operation, will realize \$68,185 per year in savings, and will generate 699,520 kWh per year. The investment will be used to purchase solar panels and inverters. The Rural Economic Development program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
IOWA	GENERAL SWINE PROPERTIES, LLC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/22/19	0	47,000	0	This rural development guaranteed loan investment will assist with the retrofits of solar for Greening-Knight II, LLC of Waverly, Iowa. The borrower, Greening-Knight, LLC, was established in 2011 and with this proposed loan, 245 jobs will be saved.
IOWA	GREENING-KNIGHT II, LLC	BI	GUARANTEED BAI 3% FEE LOAN	06/29/19	1,700,000	0	0	This Rural Development investment will be used to establish a revolving loan fund (RLF) for Greening-Knight II, LLC of Waverly, Iowa. The RLF will be used to assist Greening-Knight II, LLC of Waverly, Iowa, a school district remodel and equip the existing middle and high school buildings. Repayment of this loan will be used for future business and community development loans. Through the Rural Economic Development Loan and Grant program, funds are used to purchase loans and grants to promote economic development.
IOWA	GRAETTINGER MUNICIPAL LIGHT PLANT	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	05/30/19	0	300,000	0	This Rural Development investment will be used for the purchase and installation of a 85.2 kW solar array for Graettinger Municipal Light Plant. The array will generate 88,227 kWh per year in savings, and will replace 128,569 kWh (100%) per year. This project will save enough electricity for 11 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
IOWA	GREEN BRANCH FARMS, LTD	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/15/19	0	42,267	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a grain dryer. Terry Greiner is sole proprietor of a grain and livestock farm near Hoon, IA. The project will realize \$6,500.05 per year in savings, and will generate 68,227 kWh per year. The investment will be used to purchase solar panels and inverters. The Rural Economic Development program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
IOWA	GREINER, TERRY	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	09/18/19	0	12,754	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a grain dryer. Hemesath Farms Inc. is a family owned farming corporation that raises corn and soybeans near Decorah, IA. This project will realize \$6,500.05 per year in savings, and will generate 68,227 kWh per year. The investment will be used to purchase solar panels and inverters. The Rural Economic Development program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations.
IOWA	HEMESATH FARMS INC.	EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$25,000	06/20/19	0	20,000	0	This Rural Development investment will be used for the purchase and installation of a 500W solar system. Hubert Houser, owner of a local chicken operation, will be generating electricity in rural Carson, IA. The system is estimated to produce 88,227 kWh per year. The investment will be used to purchase solar panels and inverters. The Rural Economic Development program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
IOWA	HOUSER, HUBERT	RES	MAND- RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/24/19	0	17,000	0	

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
IOWA	HUNSTAD, GIL	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/17/19	0	50,000	0	<p>This Rural Development investment will be used for the purchase and installation of a 200kW solar array. The project will replace 232,188 kWh (77% per year). This project will save enough electricity to power 21 homes. The purpose of this funding program is to assist farmers, ranchers, and businesses in developing renewable energy systems and in making energy-efficiency improvements to their operations.</p> <p>This Rural Development investment will be used to establish a revolving loan fund that is administered by Huxley Communications Cooperative in Huxley, IA. The initial loan will assist with the rehabilitation of the Opera House building. To complete the project, grant funds will be used to purchase a new roof and install a new electrical system. The total project cost is \$195,000 from The City of Cambridge, \$160,000 from The State of Iowa, \$10,000 from Story County and \$25,000 from Story County Community Foundation. Through the Rural Development program, the project will provide grants to rural utilities program borrowers to create revolving loan funds that promote economic development.</p>
IOWA	HUXLEY COMMUNICATIONS COOPERATIVE	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (TELEPHONE)	06/03/19	0	236,102	0	<p>This Rural Development loan investment will be a \$2,000,000 pass-through loan from the Rural Development program to assist with the purchase and installation of a new cheese packaging line at its processing facility located in Independence, Buchanan County, Iowa. Wapsie Valley Creamery, Inc. produces eight different cheeses with milk produced from approximately 225 dairy producers in NE Iowa, SE Minnesota, SW Wisconsin, and NW Illinois. The project will provide grants to rural utilities program borrowers to create revolving loan funds that promote economic development.</p>
IOWA	INDEPENDENCE TELECOMMUNICATIONS UTILITY	REDLG	RURAL ECONOMIC DEVELOPMENT LOANS (TELEPHONE)	05/21/19	0	0	2,000,000	<p>This Rural Development loan investment will be used to provide a pass-through loan to Iowa Telephone Cooperative to assist with the purchase and installation of a new telephone line to assist Land Mark Projects purchase equipment to expand their business. The Rural Development program provides grants to rural utilities program borrowers to create revolving loan funds that promote economic development.</p>
IOWA	IOWA LAKES ELECTRIC COOPERATIVE	REDLG	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	05/30/19	0	0	2,000,000	<p>This Rural Development loan investment will be used for the purchase and installation of a 78.54 MW solar array. The project will replace 100,404 kWh (78% per year). This project will save enough electricity to power 9 homes. The purpose of this funding program is to assist farmers, ranchers, and businesses in developing renewable energy systems, and making energy-efficiency improvements to their operations.</p>
IOWA	J & T LOGISTICS, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/22/19	0	30,015	0	<p>This Rural Development investment will be used for the purchase and installation of 44 kW solar array. JDV, Inc. is a family farm operation. This project will replace 54,919 kWh (100%) per year and realize \$7,203 of saving per year. The purpose of this funding program is to assist farmers, ranchers, and businesses in developing renewable energy systems, and making energy-efficiency improvements to their operations.</p>
IOWA	JDV, INC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	15,149	0	<p>This guaranteed loan investment will be used to purchase real estate and mobile building improvements for an existing catering business in Carroll, Iowa. JJ Catering has been in business since 2014 specializing in event center rentals and catering in the tri-state area. The project will provide grants to rural utilities program borrowers to create revolving loan funds that promote economic development.</p>
IOWA	JJ CATERING, LLC.	BI	GUARANTEED B&I 3% FEE LOAN	12/11/18	425,000	0	0	<p>This Rural Development investment will be used for the purchase and installation of a 100kW solar array. James Kintzle, in his dairy operation, will realize \$19,800 per year in savings. The project will replace 100,404 kWh (78% per year). This project will save enough electricity to power 13 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficient improvements to their operations.</p>
IOWA	KINTZLE, JAMES	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/15/19	0	40,000	0	

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
IOWA	KIRKPATRICK, ERIC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/18/19	0	5,584		This Rural Development investment will be used for the purchase and installation of a 14.8kW solar array. Eric Kirkpatrick, a family hog confinement business, which will realize \$2,031 per year in savings, and will replace 2,146 kWh (61%) per year. This project will assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and 0 in making energy-efficiency improvements to their operations.
IOWA	KLINGER CATTLE LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/19/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a 49 kW solar array. Klinger Cattle LLC, a family owned farming operation, will realize \$3,522 per year in savings, and will replace 75,263 kWh (65%) per year. This project will assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and 0 in making energy-efficiency improvements to their operations.
IOWA	LAUTERBACH BUICK-GMC INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/23/19	0	32,897		This Rural Development investment will be used for the purchase and installation of a 77 kW solar array. Lauterbach Buick-GMC Inc., a family owned business, will realize \$3,507 per year in savings, and will replace 36,060 kWh (66.7%) per year. This project will assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and 0 in making energy-efficiency improvements to their operations.
IOWA	LIMESTONE BLUFFS ROAD AREA INC.	RBEG	RBGS ENTERPRISE GRANTS	07/15/19	0	33,000		This Rural Development investment will be used to provide Technical Assistance for the sustainable development of new and existing rural businesses in eastern Iowa. Limestone Bluffs Road Area Inc. is a non-profit organization that provides technical assistance and cooperative marketing of resources in this region. This project goal is to develop and market rural businesses in the five-county area while creating jobs. The purpose of this funding program is to provide grants to promote economic development of rural areas.
IOWA	LINCOURWAY ENERGY LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/16/19	0	250,000		This Rural Development investment will be used for the purchase and installation of a Regenerative Thermal Oxidizer. Lincourway Energy LLC, specializing in ethanol production, will gain the ability to increase production by 500,000 gallons per year with this renewable energy system. Lincourway Energy LLC, a family owned business, will realize \$1,000 per year in savings, and will replace 1,000,000 kWh (100%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and making energy-efficiency improvements to their operations.
IOWA	LIZARD CREEK RANCH LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/15/19	0	31,801		This Rural Development investment will be used for the purchase and installation of a combined 17.1 kW solar system. Lizard Creek Ranch, LLC will be generating electricity in rural Fort Dodge, IA. The system is estimated to produce 244,349 kWh per year, which is enough electricity to power 22 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and 0 in making energy-efficiency improvements to their operations.
IOWA	MASON, CATHEEN M	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/21/19	0	5,584		This Rural Development investment will be used for the purchase and installation of a 19kW solar array. Catheen Mason, a family owned farming operation, will realize \$2,031 per year in savings, and will replace 2,146 kWh (61%) per year. This project will assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and 0 in making energy-efficiency improvements to their operations.
IOWA	MCCLELLAN LEGACY FARMS, L.L.C.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/27/19	0	16,574		This Rural Development investment will be used for the purchase and installation of a 19kW solar array. McClellan Legacy Farms, L.L.C., a family owned farming operation, will realize \$7,774 per year in savings, and will replace 57,384 kWh (100%) per year. This project will assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and 0 in making energy-efficiency improvements to their operations.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
IOWA	MCCOY HARDWARE INC	EEl	MAND. ENERGY EFFICI. IMPROV. GRANTS UNDER \$20,000	03/27/19	0	5,332		This Rural Development investment will be used for the purchase and installation of LED lighting in the store. The borrower, a local hardware store, will realize \$5,059.01 per year in savings, and will replace 48,871 kWh (107%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
IOWA	MEYER, JAMES	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/14/19	0	8,625		This Rural Development investment will be used for the purchase and installation of a 19 kW solar system. James Meyer, a local farm operator, will realize \$3,707 per year in savings, and will replace 1,000 kWh (100%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
IOWA	MEYER, JENNIFER	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/14/19	0	10,000		This Rural Development investment will be used for the purchase and installation of a 68kW solar system. Jennifer Meyer, a local farm operator, will be generating electricity in rural Glidden, IA. The system is estimated to produce 69,993 kWh per year, which is enough to power 3 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
IOWA	MIDLAND POWER COOPERATIVE	RED/G	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	12/21/18	0	0	1,000,000	This Rural Development loan investment will be a pass through loan from Midland Power Cooperative to the Midland Power Cooperative. The loan will be used to fund the expansion with an expansion and renovation of their existing facility. The project entails an expansion will be for a 9,169 sq. ft. Parish Center, 2,146 sq. ft. school expansion for a STEM lab, library and a new playground area. The loan will be combined with a \$380,000 loan from Corn Belt Power Cooperative Revolving Loan Fund, \$2,445,000 from Capital Campaign donations, \$243,000 from the Diocese of Sioux City and \$812,000 from Saint Marie Equity fund. Through the loan, the borrower will be able to provide rural utilities program borrowers to promote economic development.
IOWA	NEUBAUER, SCOTT MICHAEL	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/22/19	0	14,106		This Rural Development investment will be used for the purchase and installation of 24.48 kW of solar panels on the family farm. The borrower, a local farmer, will realize 24.48 kW of production as calculated is 34,070 kWh's of electricity per year, or enough electricity to power 3 homes. This will replace 69.2% of the current usage. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
IOWA	NORTH WEST REC	RED/G	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	06/09/19	0	300,000		This Rural Development investment will be used to replenish an existing revolving loan fund in the community. The borrower, a local business, will realize 300,000 kWh of production as calculated is 34,070 kWh's of electricity per year, or enough electricity to power 3 homes. This will replace 69.2% of the current usage. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
IOWA	NORTHERN IOWA DIE CASTING, INC.	BI	GUARANTEED 8% 3% FEE LOAN	12/19/18	2,450,000	0		This rural development guaranteed loan investment will assist with refinancing existing real estate debt for a manufacturing facility in Lake Park, Iowa. The borrower, Northern Iowa Die Casting, Inc., established in 1958 and will be able to retain approximately 30 employees as a result of this project.
IOWA	NOTRE DAME NIKE POWER, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/16/19	0	22,325		This Rural Development investment will be used for the purchase and installation of 278kW solar array. Notre Dame Nike Power, LLC is a newly created entity for the purpose of solar array. The borrower, a local business, will realize 278 kW of production as calculated is 34,070 kWh's of electricity per year, or enough electricity to power 33 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
IOWA	OTTOLE, MICHAEL J	RES	MANU. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/08/19	0	0	7,854	This Rural Development investment will be used for the purchase and installation of a 44 kW solar array on the family farm of Michael O'Toole. The project will replace 46,279 kWh (100%) per year and realize \$5,310 of savings per year. The purpose of this funding program is to provide technical assistance and training to rural farmers and ranchers in making energy efficiency improvements to their operations.
IOWA	CELWEIN CITY OF	IRP	INTERMEDIARY RELENDING PROGRAM	09/06/19	0	0	500,000	This Rural Development investment will be used to supplement the City of Celwein's existing revolving loan fund. This City of Celwein will also receive a \$500,000 matching loan from the Rural Development Corporation to assist in the purchase and installation of these funds to for-profit and non-profit businesses located in Celwein to provide business start-up or expansion and economic development. The purpose of this funding program is to provide technical assistance and training to rural farmers and ranchers in making energy efficiency improvements to their operations. The total loans from this project are anticipated to create 5 jobs.
IOWA	OTIS FINISHER FARM, LLC	RES	MANU. RENEW ENERGY SYSTEMS GRANTS UNDER \$25,000	03/25/19	0	0	11,950	This Rural Development investment will be used for the purchase and installation of a 28kW ground mounted solar array. James Otis and Joseph Thielen both have 50% ownership of Otis Finisher Farm, LLC. The project will replace 31,960 kWh (89%) per year and realize \$3,950 of savings per year or enough electricity to power 3 homes. This will replace 52,01% of the current usage. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
IOWA	OTTUMWA AREA ECONOMIC DEVELOPMENT CORP.	RREG	RBGS ENTERPRISE GRANTS	08/07/19	0	69,400	0	This Rural Development investment will be used by the Ottumwa Area Economic Development Corporation to attract workforce and new businesses to Ottumwa and 0 surrounding 3-county area.
IOWA	PAUL A. VITO, CO. ECONOMIC DEVELOPMENT CORP.	RREG	RBGS ENTERPRISE GRANTS	06/19/19	0	30,100	0	This Rural Development investment will be used to provide technical assistance and educational opportunities for small businesses in Palo Alto County, Iowa. Palo Alto County Economic Development Corporation is currently assisting 25-30 businesses with this project. The purpose of this funding program is to provide technical assistance and training to rural farmers and ranchers in making energy efficiency improvements to their operations.
IOWA	PAULSTIAN ENTERPRISES LTD.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/24/19	0	35,619	0	This Rural Development investment will be used for the purchase and installation of a 273 kW solar array. Paulstian Enterprises will realize \$87,238 per year in savings and will replace \$21,980 kWh (89%) per year. This project will save enough electricity to power 48 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations.
IOWA	PRACTICAL FARMERS OF IOWA	RREG	RBGS ENTERPRISE GRANTS	06/25/19	0	72,435	0	This Rural Development investment will be used to provide technical assistance to small and medium-sized businesses in Iowa. Practical Farmers of Iowa has over 30 years experience in research, networking, and providing training to small businesses.
IOWA	PAIRIE ENERGY COOP	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	08/13/19	0	300,000	0	This Rural Development investment of \$300,000 will be used for the purchase, reworking loan fund along with \$60,000 of Prairie Energy Cooperative's funds. Prairie Energy Cooperative will loan these funds to Hancock County Health System, a county owned critical access hospital in Britt, Iowa to assist with renovations to modernize the hospital. Additional funding will be provided to the Hancock County Health System by the Rural Development Electric Cooperative funding and USDA - Rural Development Community Facilities Program loan funding. The purpose of this funding program is to provide loans to rural utilities 0 program borrowers to promote economic development.
IOWA	PAIRIE PORK, INC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/17/19	0	50,000	0	This Rural Development investment will be used for the purchase and installation of 130 and 148 kW solar arrays. Prairie Pork, Inc. a family farm operation, will realize \$54,659 per year in savings and will replace 303,214 kWh (80.39%) per year. This project will save enough electricity to power 34 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and making energy efficiency improvements to their operations.
IOWA	RCMD FOR ME IA INC	RDOG	RBGS DEVELOPMENT GRANT	06/10/19	0	15,000	0	This Rural Development investment will be used to provide economic development and training to rural communities. The project will provide technical assistance and economic development by implementing and expanding on business focused initiatives 0 within 12 rural communities.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
IOWA	RED LION SIGOURNEY SCHOOLS SOLAR LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/25/19	0	21,455	0	This Rural Development investment will be used for the purchase and installation of a newly installed solar array for the Red Lion Sigourney Schools in Sigourney, IA. The system is estimated to produce 337,486 kWh per year, which is enough electricity to power 311 homes, and in making energy efficiency improvements to their operations.
IOWA	REILING, HOLLY	EEl	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	06/26/19	0	12,500	0	This Rural Development investment will be used to purchase and install a new energy efficient solar array for the Reiling family near Winthrop, IA. This project will realize \$7,471 per year in savings, and will save 185,477 kWh (48%) per year, which is enough energy to power 17 homes. The purpose of this funding is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operation.
IOWA	REIS, KAY L	RES	MAND- RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/24/19	0	17,500	0	This Rural Development investment will be used for the purchase and installation of a 39.4 kW solar array. Kay Reis will realize \$7,742 per year in savings and will replace 54,743 kWh per year. This project will realize \$18,739.69 per year in savings, and will replace 203,213 kWh (89%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations.
IOWA	RIVER VALLEY TELEPHONE COOP	REDLG	RURAL ECONOMIC DEVELOPMENT LOANS (TELEPHONE)	05/30/19	0	0	875,000	This Rural Development loan investment will be used to assist with the complete acquisition and replacement of 1300 feet of Robins Street in Graceland, Iowa, a street through the city's primary business and employment center. The proposed project will replace the entire street with new concrete sidewalks, street lighting, and landscaping and landscaping and landscaping improvements. This \$875,000 loan from River Valley Telephone Cooperative will be combined with a \$800,000 of funds from the City of Graceland and the Graceland Municipal Utilities. Through the Rural Economic Development Loan and Grant program, the Rural Development investment will be used to provide loans to rural utilities programs to promote economic development.
IOWA	ROYER, DANIEL	RES	MAND- RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/24/19	0	10,000	0	This Rural Development investment will be used for the purchase and installation of a 42kW solar array for the Royer family near Rapids, IA. The system is estimated to produce 65,689 kWh per year, which is enough electricity to power 5 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
IOWA	SANDBERG, MARK L	EEl	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	06/21/19	0	17,281	0	This Rural Development investment will be used to make energy-efficiency improvements with the purchase and installation of a new Salsup grain dryer. Mark Sandberg is a sole proprietor of a grain farm near Rowley, IA. This project will realize \$9,486 per year in savings, and will replace 103,213 kWh (89%) per year. The purpose of this funding program is to assist farmers, ranchers and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operation.
IOWA	SCHLEISMAN, MELISSA	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/31/19	0	15,296	0	This Rural Development investment will be used for the purchase and installation of a combined 102 kW solar system in three locations. Melissa Schleisman, a local farm operator, will realize \$18,739.69 per year in savings, and will replace 203,213 kWh (89%) per year. This project will save enough electricity to power 18 homes. The purpose of this project is to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
IOWA	SHERILL MOUNT HOUSE, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/16/19	0	10,678	0	This Rural Development investment will be used for the purchase and installation of a 13.7 kW Solar array. Sherill Mount House, LLC, a restaurant in Sherill Iowa, will realize \$4,693 per year in savings, and will replace 14,686 kWh (67%) per year. The purpose of this project is to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and making energy efficiency improvements to their operations.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
IOWA	SOIL BUILDER, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/16/19	0	22,500		This Rural Development investment will be used for the purchase and installation of a 41 kW solar array. The project will be used to assist in the development of a new business, Soil Builder, LLC. The system is estimated to produce 63,571 kWh per year, which is enough electricity to power 5 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and making energy efficiency improvements to their operations.
IOWA	SPEERSLAGE, ANITA	EEl	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$25,000	06/20/19	0	20,000		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a grain dryer. Anita Speerlage raised corn and soybeans on 140 acres. This project will allow her to dry her grain more efficiently and produce 41,125 kWh (44%) per year, which is enough energy to power 22 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
IOWA	STENSLAND CREAMERY, INC	VAPG	VALUE-ADDED PRODUCER OVL GRANTS/DCSR	02/13/19	0	250,000		Rural Development funds will be used to expand retail sales of cheese, ice cream and pasteurized bottled milk. Working capital funds will be used to expand the marketing and sales of cheese, ice cream and pasteurized bottled milk. Rural Development funds will be matched with \$250,000 from the grantee.
IOWA	STENSLAND, LLC	BI	BUSINESS & INDUSTRY GUARANTEED LOAN- 1%	06/26/19	2,000,000	0		This Rural Development guaranteed loan investment will assist Stensland, LLC in restructuring debt and increasing working capital. Stensland, LLC is a small family-owned business that produces and markets a variety of value-added dairy products, including cheese, butter, and yogurt. The guaranteed loan will allow Stensland to retain 25 employees and create 3 new job opportunities. The purpose of this funding program is to bolster the availability of private credit by guaranteeing loans for rural businesses.
IOWA	STREETER, MICHAEL D.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/16/19	0	14,265		This Rural Development investment will be used for the purchase and installation of a 26.95 kW solar array. Michael Streeter, owner and operator of a leasing company, will realize \$4,132 per year in savings, and will generate 36,624 kWh (98%) per year. This project will allow Streeter to realize savings on his electricity bill, which will be used to assist in the development of a new business, Michael Streeter Leasing, LLC. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and making energy efficiency improvements to their operations.
IOWA	TAKES DAIRY, L.C.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/26/19	0	21,375		This Rural Development investment will be used for the purchase and installation of a 73 kW solar array. Takes Dairy, L.C., a producer of Dairy Cattle and Milk, will realize \$8,237 per year in savings, and will replace 100,281 kWh (136%) per year. This project will save enough electricity to power 9 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and making energy efficiency improvements to their operations.
IOWA	TURNIS FARMS COMPANY	RES	MAND- RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	13,270		This Rural Development investment will be used for the purchase and installation of a 100% per year and realize \$5,900 of saving per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
IOWA	UNI SWINE, LLC	RES	MAND- RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/24/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a 4 color array totaling 178 kW. UNI Swine, LLC, will realize \$27,373 per year in savings, and will generate 245,849 kWh per year. This project will generate enough electricity to power 20 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and making energy efficiency improvements to their operations.
IOWA	WATSON AUTO PARTS, LLC	BI	GUARANTEED B&I 3% FEE LOAN	03/02/19	400,000	0		This guaranteed loan investment will be used to transfer ownership of an existing auto parts store in Iowa. Loan funds will be used to acquire all business assets allowing the business to remain operational and retain 3 employees under the current operation. Guaranteed loan funds will be matched with a \$25,000 operating line of credit from the lender.
IOWA	WATSON AUTO PARTS, LLC	BI	GUARANTEED B&I 3% FEE LOAN	03/02/19	125,000	0		This guaranteed loan investment will be used to transfer ownership of an existing auto parts store in Iowa. Loan funds will be used to acquire all business assets allowing the business to remain operational and retain 3 employees under the current operation. Guaranteed loan funds will be matched with a \$25,000 operating line of credit from the lender.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
IOWA	WELAND FARMS	EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/22/19	0	20,000		This Rural Development investment will be used to make energy efficiency improvements to the existing 10,000 sq ft, 100-year-old building at the farmstead. The project will be a turnkey partnership that raises corn and soybeans at its facility near Garner, Iowa. The project will realize \$64,990 per year in savings and will reduce energy consumption by 15 percent. The project will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
IOWA	WOODBURY COUNTY RURAL ELECTRIC COOP	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	05/29/19	0	300,000		This Rural Development investment will be used to replace an existing working line, land that is administered by Woodbury County Rural Electric Cooperative in Monka, Iowa. The initial loan will assist the city of Lawton's proposed project of constructing a new city hall with a community room and maintenance facility.
KANSAS	ABILENE MACHINE LLC	EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/22/19	0	19,300		Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Abilene Machine, Inc is a manufacturer in Spocom, Kansas. The project will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. The project is estimated to save \$4,599 kWh per year. Enough energy to power 5 homes. The energy saving is estimated to be 40.30%, less energy than has been historically used. Abilene Machine, Inc. currently employs 141 individuals.
KANSAS	AVIATION CONSULTING & ENG SOLUTIONS INC	RES	MAND- REVIEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	20,000		Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Aviation Consulting & Engineering Solutions, Inc. is an existing business that provides clients with FAA certification and engineering solutions. The project will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. The project is estimated to generate 34,130 kWh per year. Enough energy to power 3 homes. Aviation Consulting & Engineering Solutions, Inc. currently employs 15 individuals.
KANSAS	BLUESTEM ELECTRIC COOPERATIVE INC	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	12/18/18	0	0	1,000,000	This project will provide loan funds for the Gray Family Dental in Mayville, KS to construct and equip a new dental facility. The project will result in the creation of 5 additional jobs.
KANSAS	BLUESTEM ELECTRIC COOPERATIVE INC	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	05/16/19	0	0	1,350,000	Rural Development funds will be used to provide loans to rural utilities, agrigen, borrowers to provide economic development. Custom Wood Products, is focused on the design, manufacturing and delivery of custom cabinetry to homeowners. This project will provide loan funds to purchase and install a new building in Mayville, Kansas, as well as an existing building in Mayville, Kansas. The project will result in the creation of 20 additional jobs.
KANSAS	CUDNEY, MONTY	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/11/19	0	42,300		Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Monty Cudney runs an existing turkey farm. Project funds will be used to purchase and install a new solar system. The project is estimated to generate 148,846 kWh per year. Enough energy to power 14 homes. This system is estimated to generate 61% of the energy needed to power the business. Monty Cudney currently employs 9 individuals.
KANSAS	DISCS UNLIMITED INC	RES	MAND- REVIEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/15/19	0	5,762		Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. The project will replace 100% of the energy used by a business. The project will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. The project is estimated to generate 13,164 kWh (100% per year, enough electricity to power 1 home).
KANSAS	DKM LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/11/19	0	20,000		Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. DKM, LLC is an existing business that owns, raises and sells livestock. Project funds will be used for the purchase and installation of a 25.3 kW Solar system. The project is estimated to generate 40,000 kWh per year. Enough energy to power 3 homes. Aviation Consulting & Engineering Solutions, Inc. currently employs 15 individuals.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
KANSAS	DODGE CITY CITY OF	REG	RBGS ENTERPRISE GRANTS	06/27/19	0	13,374	0	This Rural Development Investment will be used to bring a new college degree program to Southwest Kansas through a partnership with K-State Board of Regents, Fort Hays State University, Kansas University, KU Med, Newman University and Wichita State University. A feasibility study was conducted with FY 2017 RBGS allocation to determine the success of the program. The project will be used to purchase and install LED lighting and signage in the building that sits on the grounds of the former St. Mary's of the Plains College, now owned by Dodge City. Focus of the project is to be able to fill positions currently available in the medical field. The project will create 40 jobs.
KANSAS								0 Greely Ford and Finney. Project will create 40 jobs.
KANSAS	FORT SCOTT HOSPITALITY CO	EEL	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/15/19	0	7,429	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will replace 42% of the energy used by a hotel in Fort Scott, KS. The project proposes to improve efficiency by 54%. Project funds will be used for the purchase and installation of LED lighting and signage which will save 0.42% per year, enough electricity to power 3 homes.
KANSAS	GLAVAN AUTO GROUP LLC	BI	GUARANTEED B&I 3% FEE LOAN	06/26/19	2,100,000	0	0	0.42% per year, enough electricity to power 3 homes.
KANSAS	HISTORIC BRECKENRIDGE LLC	BI	GUARANTEED B&I 3% FEE LOAN	03/15/19	10,000,000	0	0	0.42% per year, enough electricity to power 3 homes.
KANSAS	HORTON MEAT PROCESSING LLC	BI	GUARANTEED B&I 3% FEE LOAN	07/09/19	375,000	0	0	0.42% per year, enough electricity to power 3 homes.
KANSAS	HUTCHINSON COMMUNITY COLLEGE	REG	RBGS ENTERPRISE GRANTS	06/27/19	0	99,500	0	0.42% per year, enough electricity to power 3 homes.
KANSAS	JOHNL & PEGGY A CARR LIVING TRUST	EEL	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/22/19	0	7,267	0	This Rural Development Investment will be used to make energy efficiency improvements by converting an existing building into a new building. The project will replace 42% of the energy used by a building in Pawnee County, KS. This project will realize a \$7,620 per year in savings, and will replace 149,351 kWh (93.85%) per year which is enough to power 13 homes. The purpose of the project is to develop renewable energy systems, and in making energy-efficiency improvements to their operations.
KANSAS	MANZER FAMILY MEDICINE LLC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	06/11/19	0	8,965	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will replace inefficient HVAC in 3 separate buildings housing doctor clinics in both Galena and Columbus, KS. The project proposes to improve efficiency by 74%.
KANSAS	OSAWATOMIE AGENCY INC. THE	RES	MAND. REVIEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/15/19	0	17,625	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will replace 42% of the energy used by a rural residence in Osawatomie, KS. The project will realize a \$5,476 per year in savings, and will purchase and installation of a 30 kW solar array which will save \$5,476 and replace 42,125 kWh (42%) per year, enough electricity to power 3 homes.
KANSAS	PACIFIC INVESTMENT INC	BI	GUARANTEED B&I 3% FEE LOAN	04/19/19	3,836,000	0	0	0.42% per year, enough electricity to power 3 homes.
KANSAS	PALMER LOCKHART HOLDING INC	BI	GUARANTEED B&I 3% FEE LOAN	06/13/19	10,000,000	0	0	0.42% per year, enough electricity to power 3 homes.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
KANSAS	PEABODY GROCERY INC	EET	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/15/19	0	17,507	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The Peabody Market is a grocery store in Peabody, Kansas. Project funds will be used to replace outdated freezers. The project is estimated to save 65.48% less energy than has been historically used. The Peabody Market currently employs 14 individuals.
KANSAS	PFAFF SIGNS LLC	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	6,937	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Pfaff Signs LLC is an existing business that creates signs and banners. Project funds will be used for the purchase and installation of a 7.1 kW solar array. The project is estimated to generate 100% of the energy needed to power 1 home. This system is estimated to generate 100% of the energy needed to power the 0 business. Pfaff Signs, LLC, currently employs 4 individuals.
KANSAS	PLASTICS EXTRUSION MACHINERY LLC	REAP	REAP-MAND-ENERGY EFF. IMPROV GRANTS	06/18/19	0	15,291	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Plastic Extrusion Machinery is a business in McPherson, Kansas. Project funds will be used for the purchase and installation of LED lighting, as well as Welder, Heater and Exhaust upgrades. The project is estimated to save 22.46% less energy than has been historically used. Ablevine Machine, Inc. currently employs 32 individuals.
KANSAS	PROTECTION COMMUNITY VENTURE INC	EET	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/18/19	0	12,881	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Protection Community Venture, Inc. is a business in Protection, Kansas. Project funds will be used to replace outdated refrigeration as well as upgrade the store with LED lighting. The project is estimated to save \$5,507 kWh per year. The project is estimated to generate 100% of the energy needed to power the business. Protection Community Venture, Inc. currently employs 14 individuals.
KANSAS	RIVERSCREEN INC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/11/19	0	48,535	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Riverscreen, Inc. is a business in Riverscreen, Kansas. Project funds will be used for the purchase and installation of a 65 kW solar array. The project is estimated to generate 100% of the energy needed to power the business. Riverscreen, Inc. currently employs 5 individuals.
KANSAS	ROLLING HILLS ELECTRIC COOP INC	REDLG	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	12/18/18	0	0	640,000	The project will provide loan funds to Ochsana School #932, to replace outdated plumbing in the school building. The project will save 86 jobs at the school.
KANSAS	SLACK, MICHAEL	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	11,193	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Michael Slack is a business in Michael Slack Community, Kansas. Project funds will be used for the purchase and installation of a 18 kW solar array. The project is estimated to generate 28,189 kWh per year. Enough energy to power 2 homes. This system is estimated to generate 100% of the energy needed to power the business. Michael Slack Community has 1 employees.
KANSAS	SPUR RIDGE VET HOSPITAL PA	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	8,613	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Spur Ridge Vet Hospital is a business in Spur Ridge, Kansas. Project funds will be used for the purchase and installation of a 18 kW solar array. The project is estimated to generate 28,189 kWh per year. Enough energy to power 2 homes. This system is estimated to generate 100% of the energy needed to power the business. Michael Slack Community has 1 employees.

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
KANSAS	STAFFORD COUNTY ECONOMIC DEVELOPMENT	REG	RECS ENTERPRISE GRANTS	06/19/19	0	85,926	0	<p>The project will be used to renovate building, the Ball County Economic Development (RECD) office to create a business incubator. The project will be used to purchase equipment to provide technical assistance services, and purchase of computers, internet and other essential technology.</p> <p>0 Project will create 18 jobs.</p>
KANSAS	SUMNER COMMUNITY HOSPITAL LLC	BI	GUARANTEED BA 3% FEE LOAN	11/07/18	2,220,000	0	0	<p>USDA Rural Development funds will be used to provide a guaranteed loan to Sumner Community Hospital, LLC for the purpose of acquiring the existing hospital in Wellington, Kansas. This acquisition will allow the local hospital to remain open, thus ensuring access to health care services for the community.</p> <p>0 Sumner County, Kansas. The project will also allow for the retention of 109 full time jobs.</p>
KANSAS	TOLL J DOUGLAS	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/15/19	0	9,913	0	<p>Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. J. Douglas Toll is an agricultural producer who produces corn in Clifton, Kansas. Project funds will be used for the purchase and installation of a 3.0 kW Photovoltaic Array system to produce clean energy and to provide a high energy to power 1 home. This system is estimated to save 41.1%, less energy than has been historically used. J. Douglas Toll currently employs 2 individuals.</p>
KANSAS	UNRUH, DUANE	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/15/19	0	3,583	0	<p>Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Duane Unruh produces eggs in Peabody, Kansas. Project funds will be used for the purchase and installation of an 8 kW solar array. This system is estimated to save 31.58% less energy than has been historically used. Duane Unruh currently employs 1 individual.</p>
KENTUCKY	7453 ASHLAND, LLC	BI	GUARANTEED BA 3% FEE LOAN	06/26/19	5,000,000	0	0	<p>The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. The project will be used to purchase and installation of a 30.72 kW Photovoltaic Array system. Project funds will be used for the purchase and installation of a generation unit that will replace 37,048 kWh which is enough electricity to power 3.4 homes.</p> <p>This Rural Development investment will enable the Fiscal Court to purchase equipment and install a 30.72 kW Photovoltaic Array system. Project funds will be used to purchase and install a generation unit that will replace 37,048 kWh which is enough electricity to power 3.4 homes.</p> <p>The company is paying to haul the oil to Missouri for disposal. In addition, this project will create a local source of organic fertilizers for local farmers or homeowners. Due to the fact that the company is not currently producing organic fertilizers, the project will help the company meet the demand for organic fertilizers in the local market. Overall this project will assist in curtailing the exploding population of Asian Carp in Kentucky waters. This invasive fish are reproducing at alarming rates and threatening the local fishing industry. Ballard County contains several critical designated as</p> <p>0 Opportunity Zone.</p>
KENTUCKY	ANNIE'S FRUGAL FARMY, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/30/19	0	20,000	0	<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Annie's Frugal Farmy is a farm located in Henry County, The business employs five full-time employees. Project funds will be used for the purchase and installation of a 3.0 kW Photovoltaic Array system. This system is estimated to save 31.58% less energy than has been historically used. Annie's Frugal Farmy currently employs 5 individuals.</p> <p>This Annual Rural Development investment opportunity will enable the Gasline to provide education, guidance or instruction to one or more rural microentrepreneurs to prepare them to start or expand a business. The project will be used to provide technical assistance to microentrepreneurs in achieving a degree of business preparedness and/or functioning that would allow them to obtain, or have the ability to obtain, one or more business loans of \$50,000 or less.</p>
KENTUCKY	CADRES, INC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/28/19	0	19,222	0	<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Cadres, Inc. is a business located in Henry County, The business employs five full-time employees. Project funds will be used for the purchase and installation of a 3.0 kW Photovoltaic Array system. This system is estimated to save 31.58% less energy than has been historically used. Cadres, Inc. currently employs 5 individuals.</p> <p>This Annual Rural Development investment opportunity will enable the Gasline to provide education, guidance or instruction to one or more rural microentrepreneurs to prepare them to start or expand a business. The project will be used to provide technical assistance to microentrepreneurs in achieving a degree of business preparedness and/or functioning that would allow them to obtain, or have the ability to obtain, one or more business loans of \$50,000 or less.</p>
KENTUCKY	COMMUNITY VENTURES, INC	RMAP	DISCRETION ASSIST MICROENTERPRENEURS	09/27/19	0	55,029	0	<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Community Ventures, Inc. is a business located in Henry County, The business employs five full-time employees. Project funds will be used for the purchase and installation of a 3.0 kW Photovoltaic Array system. This system is estimated to save 31.58% less energy than has been historically used. Community Ventures, Inc. currently employs 5 individuals.</p> <p>This Annual Rural Development investment opportunity will enable the Gasline to provide education, guidance or instruction to one or more rural microentrepreneurs to prepare them to start or expand a business. The project will be used to provide technical assistance to microentrepreneurs in achieving a degree of business preparedness and/or functioning that would allow them to obtain, or have the ability to obtain, one or more business loans of \$50,000 or less.</p>

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
KENTUCKY	GOOSE CREEK CANDLES, LLC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	06/17/19	0	48,895	0	This Rural Development investment will be used to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Goose Creek Candles, LLC is a candle manufacturer in Madison County, KY. Project funds will be used to purchase and install a 300-watt solar panel installation to the commercial property located at 1408 S. Wallace Williams Blvd, Liberty KY. This project will realize \$3,863.30 per year in savings, and will save 7,744 kWh (10.85%) 0 per year, which is enough electricity to power 7.1 homes.
KENTUCKY	GROSS FARMS INC.	EEl	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/01/19	0	6,470	0	This Rural Development investment will be used to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Gross Farms Inc. owns and operates four Brooder Egg Production barns located at 250 Forest King RD, Livermore KY. Project funds will be used to purchase and install a 150 Watt LED lighting. This project will realize \$5,297.04 per year in savings, and will replace 44,142 kWh (63.1%) per year, which is 0 enough electricity to power 4.07 homes.
KENTUCKY	GROSS FARMS INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/05/19	0	43,843	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Gross Farms Inc. is poultry farm in McLean County, KY. Project funds will be used to purchase and install a 300-watt solar panel installation to the production barns located at 8450 Hwy 1046, Calhoun KY. This project will realize \$10,044.48 per year in savings, and will replace 83,704 kWh which is enough electricity to power 7.7 homes.
KENTUCKY	GROSS, BRYANT	EEl	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/01/19	0	3,225	0	This Rural Development investment will be used to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Bryant Gross is the owner-operator of two (2) brooder production barns located at 250 Forest King RD, Livermore KY. Project funds will be used to purchase and install a 150 Watt LED lighting. This project will realize \$3,411.07 per year in savings, and will replace 28,423 kWh (25.35%) per year, which is 0 enough electricity to power 2.6 homes.
KENTUCKY	GROSS, BRYANT	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/05/19	0	44,296	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Bryant Gross owns a poultry farm in McLean County, KY. Project funds will be used to purchase and install a 300-watt solar panel installation to the production barns located at 8450 Hwy 1046, Calhoun KY. This project will realize \$10,044.48 per year in savings, and will replace 84,211 kWh which is enough electricity to power 7.7 homes.
KENTUCKY	HAMILTON GRAIN FARMS, LLC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	06/05/19	0	29,585	0	This Rural Development investment will be used to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Hamilton Grain Farms, LLC is a grain storage facility in Davies County, KY. Project funds will be used to replace an inefficient grain dryer with a Silcock 1200 Grain Drying System located at 7844 Hwy 431, Uca KY. This project will realize \$2,000.00 per year in savings, and will save 206,320 kWh (3.94%) per year, which is 0 enough electricity to power 16.3 homes.
KENTUCKY	HAZARD, CITY OF	RREG	RREG ENTERPRISE GRANTS	07/20/19	0	100,000	0	The Rural Development investment will enable to applicant to support small and emerging farmers, food producers and artists located within the Perry County area. The proposal is for the construction of a new building for the Hazard Community Center. The building has been designated as a Shapard or Appalachian Region (SOAR); Appalachian Regional Commission (ARC); Substance-Use Disorder (SUD); Persistent Poverty Promote Zone, a Disadvantaged Community, and contains census tracts designated as Opportunity Zones.
KENTUCKY	HOWELL, KETH	EEl	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/23/19	0	12,272	0	This Rural Development investment will be used to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Keith Howell is the owner-operator of four (4) brooder production houses located at 272 Haysprays RD, Wingo KY. Project funds will be used to purchase and install a 150 Watt LED lighting. This project will realize \$2,268.04 per year in savings, and will replace 66,868 kWh (22.09%) per year, which is 0 enough electricity to power 6.2 homes.

RBKS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
KENTUCKY	HUNT FARMS	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	06/04/19	0	94,123	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Hunt Farms is a grain farm located in rural Warren County, KY. The project will be used to purchase and installation of a 48.64 kW solar photovoltaic array system from CSI model 3531T, located at 1388 Hickory RD, Bowling Green KY. This project will realize \$18,259.00 per year in savings, and will save 378.715 kWh (22.25% per 0 year, which is enough electricity to power 34.9 homes.
KENTUCKY	IGWACO HOLDINGS, LLC ET AL	BI	GUARANTEED 8% 3% FEE LOAN	06/28/19	2,050,000	0	0	This Rural Development investment will be used to refinance existing debt which will save 0 30 jobs with an average wage above 138% of the Federal Minimum Wage.
KENTUCKY	JAMES TRANSPORTATION, LLC	BI	GUARANTEED 8% 3% FEE LOAN	06/19/19	10,000,000	0	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Jason Ralph Farms LLC is a poultry farm located in Graves County. Project funds will be used for the purchase and installation of a 48.64 kW solar photovoltaic array system from CSI model 3531T, located at 1388 Hickory RD, Bowling Green KY. This project will realize \$18,259.00 per year in savings, and will save 378.715 kWh (22.25% per 0 year, which is enough electricity to power 34.9 homes.
KENTUCKY	JASON RALPH FARMS, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/05/19	0	36,770	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. JRL's Pizza, LLC is a privately owned Domino's franchise located in rural Pulley, KY. The project will be used to purchase and installation of a 38 kW Photovoltaic Array system. This project will realize \$4,941.00 per year in savings, and will generate 47,555 kWh which is enough electricity to power 4.4 0 homes.
KENTUCKY	JRL UNDERGROUND, INC.	BI	GUARANTEED 8% 3% FEE LOAN	02/20/19	10,000,000	0	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. JRL's Pizza, LLC is a privately owned Domino's franchise located in rural Pulley, KY. The project will be used to purchase and installation of a 38 kW Photovoltaic Array system. This project will realize \$4,941.00 per year in savings, and will generate 47,555 kWh which is enough electricity to power 4.4 0 homes.
KENTUCKY	JW'S PIZZA, LLC	RES	MAND. RENEW ENERFY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	19,995	0	This Rural Development investment will be used to improve economic conditions of rural areas through cooperative development as a primary objective and support the development of a strong rural workforce. Kentucky Center of Agriculture and Rural Development (KCARD) will provide hands-on technical assistance, relevant educational opportunities, and training to rural residents and businesses. KCARD serves all among providers to new and existing agricultural and rural businesses. KCARD serves all 0 rural areas across Kentucky.
KENTUCKY	KENTUCKY CENTER FOR AG & RURAL DVP/MT	RCDG	PERSISTENT POVERTY RCDG - RURAL COOPERATIVE DEVELOPMENT GRANTS	09/16/19	0	200,000	0	This Rural Development investment will be used to promote economic development through the development of a strong rural workforce. Kentucky Center of Agriculture and Rural Development (KCARD) will provide hands-on technical assistance, relevant educational opportunities, and training to rural residents and businesses. KCARD serves all among providers to new and existing agricultural and rural businesses. KCARD serves all 0 rural areas across Kentucky.
KENTUCKY	KENTUCKY HIGHLANDS INVESTMENT CORP	IRP	INTERMEDIARY RELENDING PROGRAM	02/25/19	0	0	1,000,000	\$0-\$0 (0%) This Rural Development investment will be used to promote economic development through the development of a strong rural workforce. Kentucky Center of Agriculture and Rural Development (KCARD) will provide hands-on technical assistance, relevant educational opportunities, and training to rural residents and businesses. KCARD serves all among providers to new and existing agricultural and rural businesses. KCARD serves all 0 rural areas across Kentucky.
KENTUCKY	KENTUCKY HIGHLANDS INVESTMENT CORP	RMAP	MAND RURAL MICROENTERPRISE DVP/ ORG LOANS	05/30/19	0	0	500,000	This Rural Development investment will be used to recapitalize a Rural Microloan Revolving Fund to make microloans to rural microentrepreneurs and microenterprises. The Applicant's business is a micro-enterprise located in rural areas of the Kentucky Appalachian Region (SCAR) Appalachian Regional Commission, State Force, Shipping out Appalachian Region (SCAR) and Opioid Crisis. The applicant will inject an additional \$125,000 into the project to meet the financing and technical needs of micro-enterprises throughout the area.

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
KENTUCKY	KENTUCKY HIGHLANDS INVESTMENT CORP	REG	RCS ENTERPRISE GRANTS	07/29/19	0	100,000		The Rural Development Investment will be used to recapitalize a \$100,000 working loan fund to assist businesses located in a 14-county service area. This program will enable the applicant to increase access to capital for businesses located in an economically distressed area where the availability of credit is limited. The project is currently starting up and has been awarded a grant from the KY Community & Technical College System's Rural Enterprise Program (REEP), persistent poverty, Appalachian Regional Commission, and each county contains 0 census tracts which have been designated as Opportunity Zones.
KENTUCKY	KENTUCKY HIGHLANDS INVESTMENT CORP	RIMP	DISCRETION ASSIST MICROENTERPRENERS	09/24/19	0	43,073		This Annual Rural Development investment opportunity will enable the Grantee to provide technical assistance to small business owners and entrepreneurs who are seeking to increase their capacity in specific technical aspect of the subject business, and, to assist the rural entrepreneur in obtaining financing through various sources. The project is currently starting up and has been awarded a grant from the KY Community & Technical College System's Rural Enterprise Program (REEP), persistent poverty, Appalachian Regional Commission, and each county contains 0 census tracts which have been designated as Opportunity Zones.
KENTUCKY	KY COMMUNITY & TECHNICAL COLLEGE SYSTEM	REG	RCS ENTERPRISE GRANTS	07/29/19	0	99,945		The Rural Development investment will enable the College to implement an Additive Manufacturing Center of Excellence. The center will focus on providing technical training technology will enable small and emerging businesses owners and investors the opportunity to experience what AM (3D) can do for their businesses. The technology enables design capabilities that allow for more complex shapes and designs, both internally and externally. The AM can produce complex shapes and designs, both internally and externally. This conventional manufacturing cannot. For example, AM can produce moving parts within moving parts with no assembly required. This aspect can enable businesses to produce parts faster than traditional manufacturing processes. The project is currently starting up and has been awarded a grant from the KY Community & Technical College System's Rural Enterprise Program (REEP), persistent poverty, Appalachian Regional Commission, and each county contains 0 census tracts which have been designated as Opportunity Zones.
KENTUCKY	KY COMMUNITY & TECHNICAL COLLEGE SYSTEM	REG	RCS ENTERPRISE GRANTS	07/29/19	0	99,988		The Rural Development investment will enable the College to expand their Additive Manufacturing knowledge and access toward the Appalachian Region. (AMAKE - Additive Manufacturing Knowledge Expansion). The project will focus on providing technical training methodology and AM migration assist from the Somerset region to Kentucky FIVCO area. The College will provide technical assistance through training, assistance and support of the Appalachian Community College, as well as collaborating partners in the sector of Additive Manufacturing. The project will also result in new employment opportunities in the Appalachian region. The college will also utilize its existing and new equipment to establish a cloud computing infrastructure. This project will also result in new employment opportunities in existing businesses and new startup businesses opportunities. Overall this expansion work in AM across the state of Kentucky will lead to the advancement of the state's manufacturing profile and future investments from leading to the advancement of the state's manufacturing profile and future investments from the aerospace and automotive industries.
KENTUCKY	KY COMMUNITY & TECHNICAL COLLEGE SYSTEM	REG	RCS ENTERPRISE GRANTS	07/29/19	0	99,750		The Rural Development Investment will be used to recapture eliminated subsidies to support curriculum and hands-on-training for the Medical Assisting Program. Clinics in new region have expressed "overwhelming interest and demand" for Certified Medical Assistants. As healthcare costs increase, medical facilities are under pressure to manage costs and both administrative and clinical tasks from filing claims to assisting the physician with minor surgeries). This program will also address the area's high opioid substance use disorder performance and possibly reduce errors, thereby allowing students with a unique opportunity to put skills into practice before entering the work force. It has been projected that this program will provide 119 new jobs and salaries over the five-year period. This grant from the KY Community & Technical College System's Rural Enterprise Program at Madisonville Community College. The College has formed a consortium to train and meet an identified need for respiratory therapists in Kentucky's Jackson Purchase region and needs of far counties. Additional funding includes a \$50,468.00 consortium contribution.
KENTUCKY	KY COMMUNITY & TECHNICAL COLLEGE SYSTEM	DJHT	DELTA HEALTH CARE SERVICES GRANT	05/02/19	0	314,846		

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
KENTUCKY	L & T POULTRY, LLC	EEL	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$25,000	03/28/19	0	17,859	0	Rural Development Funds will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. L & T Poultry, LLC is a poultry processing and egg production facility located in Ballard County. The grant will be used for the purchase and installation of energy efficient upgrades to the production houses. Improvements include installing insulated ventilation inlet doors, adding insulation to the ceiling, and installing LED lighting. The energy efficient improvements will save approximately 467,000 kWh annually, which is enough electricity to power 4.9 homes.
KENTUCKY	LAKE CUMBERLAND DISTRICT HEALTH DEPT	REEG	RBGS ENTERPRISE GRANTS	07/24/19	0	28,300	0	This Rural Development Investment will enable the applicant to support efforts to increase the productivity of small and emerging farms located within Green and Taylor Counties. The project will include the purchase and installation of a poultry processing facility and the process of providing local foods. This project will include two (2) Distressed Communities: 0 Opportunity Zone Census tracts, and designated Substance-Use Disorder areas.
KENTUCKY	LITWILLER, LAVEN K	EEL	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$25,000	03/28/19	0	8,387	0	Rural Development Funds will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Laven Litwiler is the owner/operator of a poultry farm consisting of two broiler breeder production barns in Calloway County. The grant funds will be used to make improvements to the barns including: installing insulated ventilation inlet doors, adding insulation to the ceiling, and installing LED lighting. The energy efficient improvements will save approximately 52,021 kWh annually, which is enough electricity to power 3.7 homes.
KENTUCKY	MCCREARY CO FISCAL COURT	REOG	RBGS DEVELOPMENT GRANT	07/23/19	0	25,000	0	The Rural Development Investment will be used to procure a web and marketing developer to design a website and brochure for the Industrial Development Authority. The brochure will showcase the county's special-use building and property. The economic development efforts will provide county-wide benefits to the industry located in the county.
KENTUCKY	MELVIN AND MARY BOWLES, LLC	RES	MAND. REVIEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/23/19	0	15,868	0	This Rural Development Investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Melvin and Mary Bowles, LLC is a poultry processing facility located in Calloway County. Project funds will be used for the purchase and installation of a 19 kW Photovoltaic Array system. This project will realize \$2,409.39 per year in income, and will produce 0 20,771 kWh which is enough electricity to power 2.4 homes.
KENTUCKY	MINORITY ECONOMIC DEVELOPMENT INITIATI	RMAP	DISCRETION ASSIST MICROENTERPRENERS	09/25/19	0	532	0	This Rural Development Investment will be used to assist the County to provide job training, education, guidance or instruction to one or more rural microenterprises to prepare them for self-employment, to improve the state of their existing rural microenterprise, to increase their capacity in specific technical aspect of the subject business, and, to assist the rural microenterprise in obtaining financing, to assist the rural microenterprise in obtaining financing, or allow them to obtain, or have the ability to obtain, one or more business loans of \$50,000 or less.
KENTUCKY	OUTDOOR VENTURE CORPORATION	BI	BUSINESS & INDUSTRY GUARANTEED LOAN - 1%	06/19/19	4,800,000	0	0	This Rural Development Investment will be used to refinance debt originally used for the retrofit and construction of a manufacturing facility located in McCreary Co, KY. The borrower will lease this facility and equipment to Fibrotec USA, Inc. Fibrotec USA, Inc was awarded a military contract to produce a camouflage systems fabric and will manufacture camouflage systems for the U.S. Army. The project will provide jobs for 10 employees. The Fibro Job Corps Center and Somerset Community College in the training of qualified individuals to meet their need for future employees.
KENTUCKY	PENDELTON COUNTY EXTENSION DISTRICT FON	REEG	RBGS ENTERPRISE GRANTS	07/20/19	0	80,000	0	Rural development funds will be used to construct a permanent Farmers Market Pavilion in Pendleton County, KY. This project will lead to the development or expansion of small and emerging private businesses. The Pavilion will serve an eight county area in Northern Kentucky and will provide jobs for 10 employees. The project will provide jobs for 10 employees. Pendleton County is considered a food desert by USDA standards and this will give direct access to locally grown, fresh food to the area.

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KENTUCKY	PLEASANT VIEW GREENHOUSES, INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/28/19	0	20,000	0	Rural Development Funds will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Pleasant View Greenhouses Inc. is a flower, nursery stock and florists wholesaler located in Hopkins County KY. REAP grant Funds will be used for the purchase and installation of 29.3 kW Photovoltaic Array System located at 29.3 W KY. The array system will generate approximately 42,012 kWh annually, which is enough electricity to power 3.8 homes.
KENTUCKY	PRINT MY THREADS, LLC	EEO	MAND.ENERGY EFFICIENCY GRANTS UNDER \$20,000	05/28/19	0	19,446	0	This Rural Development investment will be used to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Print My Threads, LLC is a cloth printing shop located in Flaworks KY. Project funds will be used to install energy efficient air compressors and LED lighting. The project will save 173 kWh (21.74%) per year, which is enough electricity to power 1.9 homes. It will save 173 kWh (21.74%) per year, which is enough electricity to power 1.9 homes.
KENTUCKY	PRINT MY THREADS, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/20/19	0	19,946	0	Rural Development Funds will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Print My Threads, LLC is a commercial screen printing business located in Flaworks KY. REAP Funds will be used for the purchase and installation of 3.9 kW Photovoltaic Array System at 2200 Apple Rd, Flaworks KY. The array system will generate approximately 48,489 kWh annually, which is enough electricity to power 4.4 homes.
KENTUCKY	ROCKCASTLE COUNTY INDUSTRIAL DEV AUTH	REOG	RCS ENTERPRISE GRANTS	07/29/19	0	100,000	0	This Rural Development investment will enable the Industrial Authority to construct a permanent structure for their Farmers' Market. Small and emerging farmers can sell their products which provides revenue in a county still struggling due to loss of tobacco. Since Rockcastle County is a rural area, the market will provide a source of income for local residents who will have a source of health and fresh local food. Rockcastle County is located within the Appalachian Regional Commission (ARC), Shaping our Appalachian Region and is a designated poverty, and has been designated as a distressed County.
KENTUCKY	THE KENTUCKY HORTICULTURE COUNCIL, INC.	REOG	RCS ENTERPRISE GRANTS	07/30/19	0	97,881	0	This Rural Development investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The Kentucky Horticulture Council is located in Lexington KY. The project will be used to purchase and install a 29.3 kW Photovoltaic Array System at 970 Boddee Rd, Henderson KY. This project will realize \$18,450.00 per year in savings, and will replace 131,820 kWh which is enough electricity to power 12.1 homes.
KENTUCKY	TOM & TONY FOLZ FARMS	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/19/19	0	49,975	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Tom & Tony Folz Farms is a grain farm located in Christian County KY. The project will be used to purchase and install a 29.3 kW Photovoltaic Array System at 1000 Sodden Rd, Henderson KY. This project will realize \$18,450.00 per year in savings, and will replace 131,820 kWh which is enough electricity to power 12.1 homes.
KENTUCKY	TOM FOLZ FARMS	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/19/19	0	25,000	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Tom Folz Farms is a grain farm located in Christian County KY. The project will be used to purchase and install a 29.3 kW Photovoltaic Array System at 115 South Main St, Cotton KY. The array system will generate approximately 55,161 kWh annually, which is enough electricity to power 5.2 homes.
KENTUCKY	TRILLIUM VENTURES	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/20/19	0	17,955	0	Rural Development Funds will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Trillium Ventures is a business located in Paducah KY. REAP grant Funds will be used for the purchase and installation of a 29.3 kW Photovoltaic Array System at 115 South Main St, Cotton KY. The array system will generate approximately 55,161 kWh annually, which is enough electricity to power 5.2 homes.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
LOUISIANA	BAYOU CHATEAU NURSING CENTER, INC.	EET	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/30/19	0	10,887	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize annual savings of \$1,133.38 kWh of electricity per year (72%) which is enough electricity to power 11 homes.
LOUISIANA	BAYOU SHRIMP PROCESSORS, INC.	EET	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	04/15/19	0	14,319	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize annual savings of \$1,133.38 kWh of electricity per year (72%) which is enough electricity to power 4 homes.
LOUISIANA	BME PROPERTIES, LLC.	EET	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/30/19	0	2,268	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize annual savings of \$1,133.38 kWh of electricity per year (72%) which is enough electricity to power 5 homes.
LOUISIANA	BROWNELLER THE PARTNER, INC.	EET	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	04/15/19	0	2,593	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize annual savings of \$1,133.38 kWh of electricity per year (72%) which is enough electricity to power 4 homes.
LOUISIANA	BROWNSTONE SAND & GRAVEL, INC.	BI	GUARANTEED B&I 3% FEE LOAN	11/01/18	2,879,000	0	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize annual savings of \$1,133.38 kWh of electricity per year (72%) which is enough electricity to power 4 homes.
LOUISIANA	CHANEY LUMBER & SUPPLY, INC.	EET	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/15/19	0	3,754	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize annual savings of \$1,133.38 kWh of electricity per year (72%) which is enough electricity to power 4 homes.
LOUISIANA	CITY OF WEST MORRIS	RREG	RSCS ENTERPRISE GRANTS	07/18/19	0	99,000	0	The benefit of the proposed project is that it will deliver a place-based economic development plan based on the City of West Monroe's need and capacity to implement and sustain population and economic growth. This plan will use the redevelopment of blighted areas and the construction of new housing units to stimulate economic growth and create new jobs. These new businesses would contribute to the waterfront district revitalization, thereby acting as a catalyst for business expansion, entrepreneurial development and support in the area of development, and new business incubation. The plan will also provide new housing units to provide new housing for the community located at Eunice, LA to be used as a hospital facility. Funds will be used for working capital (\$2,483,070), the refinancing of debt owed to LifePoint Health and First Guaranty Bank (\$98,959,959), and the purchase of land (100,000).
LOUISIANA	CHG-ACADIAN LLC	BI	GUARANTEED B&I 3% FEE LOAN	07/23/19	10,000,000	0	0	The benefit of the proposed project is that it will deliver a place-based economic development plan based on the City of West Monroe's need and capacity to implement and sustain population and economic growth. This plan will use the redevelopment of blighted areas and the construction of new housing units to stimulate economic growth and create new jobs. These new businesses would contribute to the waterfront district revitalization, thereby acting as a catalyst for business expansion, entrepreneurial development and support in the area of development, and new business incubation. The plan will also provide new housing units to provide new housing for the community located at Eunice, LA to be used as a hospital facility. Funds will be used for working capital (\$2,483,070), the refinancing of debt owed to LifePoint Health and First Guaranty Bank (\$98,959,959), and the purchase of land (100,000).
LOUISIANA	CHICKVILLE PLATE, LLC	BI	GUARANTEED B&I 3% FEE LOAN	07/23/19	10,000,000	0	0	The benefit of the proposed project is that it will deliver a place-based economic development plan based on the City of West Monroe's need and capacity to implement and sustain population and economic growth. This plan will use the redevelopment of blighted areas and the construction of new housing units to stimulate economic growth and create new jobs. These new businesses would contribute to the waterfront district revitalization, thereby acting as a catalyst for business expansion, entrepreneurial development and support in the area of development, and new business incubation. The plan will also provide new housing units to provide new housing for the community located at Eunice, LA to be used as a hospital facility. Funds will be used for working capital (\$2,483,070), the refinancing of debt owed to LifePoint Health and First Guaranty Bank (\$98,959,959), and the purchase of land (100,000).
LOUISIANA	CORNERSTONE FABRICATORS, LLC	BI	GUARANTEED B&I 3% FEE LOAN	04/17/19	2,900,000	0	0	The benefit of the proposed project is that it will deliver a place-based economic development plan based on the City of West Monroe's need and capacity to implement and sustain population and economic growth. This plan will use the redevelopment of blighted areas and the construction of new housing units to stimulate economic growth and create new jobs. These new businesses would contribute to the waterfront district revitalization, thereby acting as a catalyst for business expansion, entrepreneurial development and support in the area of development, and new business incubation. The plan will also provide new housing units to provide new housing for the community located at Eunice, LA to be used as a hospital facility. Funds will be used for working capital (\$2,483,070), the refinancing of debt owed to LifePoint Health and First Guaranty Bank (\$98,959,959), and the purchase of land (100,000).
LOUISIANA	DESOTO RETIREMENT & REHAB CENTER LLC	EET	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/15/19	0	5,521	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lights. This project will realize annual savings of \$1,133.38 kWh of electricity per year (77%) which is enough electricity to power 10 homes.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
LOUISIANA	ELMER CANDY CORPORATION	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	05/22/19	0	48,537	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize improvements that will save 873,168 kWh of electricity per year (75 %) which is 0 enough electricity to power 81 homes.
LOUISIANA	PREMIN FURNITURE INC.	EEl	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/15/19	0	4,529	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize improvements that will save \$1,045 kWh of electricity per year (82%) which is 0 enough electricity to power 5 homes.
LOUISIANA	GAME EQUIPMENT LLC	EEl	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/30/19	0	12,835	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize improvements that will save 203,558 kWh of electricity per year (48%) which is 0 enough electricity to power 24 homes.
LOUISIANA	GRIC FARMS	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	08/07/19	0	63,340	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of roof. This project will realize improvements that will save 178,558 kWh of electricity per year (%) which is enough electricity to power 16 homes.
KENTUCKY	JAMES ELWOOD REPAIR & MAINTENANCE, LLC	BI	GUARANTEED BA 3% FEE LOAN	07/11/19	10,000,000	0	0	This project will be used to refinance existing for better terms and cash flow to save 39 jobs at a \$26.20 per hour average wage and will deliver vessel repair and maintenance in an area hit with FEMA 4228 DR (flooding).
LOUISIANA	KAYNES REAL ESTATE DEVELOPMENT LP	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	05/20/19	0	7,304	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize improvements that will save 56,135 kWh of electricity per year (72%) which is enough electricity to power 5 homes.
LOUISIANA	KINDER RETIREMENT & REHAB CENTER, LLC	EEl	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	04/15/19	0	12,533	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize improvements that will save 131,213 kWh of electricity per year (73 %) which is enough electricity to power 12 homes.
LOUISIANA	LEESVILLE REAL ESTATE HOLDING, LLC	BI	GUARANTEED BA 3% FEE LOAN	07/23/19	9,500,000	0	0	The purpose of the loan is to provide loan-term financing for a commercial property located in Leesville, Louisiana. The loan will be used to refinance existing debt owed to Freedom Bank and National Healthcare of Leesville, Inc. (\$3,356,643), and fees & cost associated with this loan (\$84,500).
LOUISIANA	LEMOYNE MILL & TIMBER, LLC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	08/01/19	0	92,779	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of roof. This project will realize improvements that will save 353,070 kWh of electricity per year (77%) which is enough electricity to power 69 homes.
LOUISIANA	MABLES TRUCKING, INC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	08/01/19	0	19,949	0	
LOUISIANA	MAUCOR CORPORATION	BI	GUARANTEED BA 3% FEE LOAN	11/01/18	4,800,000	0	0	
LOUISIANA	MANFIELD NURSING CENTER, LLC	EEl	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/15/19	0	10,117	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize improvements that will save 118,340 kWh of electricity per year (75%) which is 0 enough electricity to power 11 homes.

RBCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
LOUISIANA	MC DANIEL FOOD MANAGEMENT, INC.	EET	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/20/19	0	14,700	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize savings, and will save 193,788 kWh of electricity per year (32%), which is enough electricity to power 18 homes.
LOUISIANA	MC DANIEL FOOD OF ALE/ANDRIA, INC.	EET	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/15/19	0	10,085	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize savings, and will save 173,033 kWh of electricity per year (56%), which is enough electricity to power 16 homes.
LOUISIANA	MC LAWRENCE FOODS, LLC.	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	05/20/19	0	4,892	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize savings, and will save 62,354 kWh of electricity per year (74%), which is enough electricity to power 8 homes.
LOUISIANA	NOVA WORKFORCE INSTITUTE OF NE LA, INC.	REBEG	RBCS ENTERPRISE GRANTS	07/18/19	0	\$2,369	0	Funds will be used to continue provide technical assistance to develop 10 small and emerging businesses in five Northeast Louisiana rural parishes (Coushatake, Iberville, Rapides, St. Landry, and St. Martin) by continuing to provide training and instruction related to potential employment or job advancements for adult students as described in 7 CFR Parts 4289.417-6(i)(2)(vi). The project will assist small and emerging businesses in developing renewable energy systems, and in making energy-efficiency improvements with the purchase and installation of LED lighting. This project will realize savings, and will save 13,213 kWh of electricity per year (77%), which is enough electricity to power 12 homes.
LOUISIANA	DISTRICT OF REG GESMAR, LLC	BIOR	RATE BIOREFINERY ASST PROGRAM - FIXED GUAR BIOREFINERY ASST PROGRAM - FIXED	09/30/19	75,000,000	0	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize savings, and will save 342,491 kWh of electricity per year (36%), which is enough electricity to power 31 homes.
LOUISIANA	DISTRICT OF REG GESMAR, LLC	BIOR	RATE BIOREFINERY ASST PROGRAM - FIXED GUAR BIOREFINERY ASST PROGRAM - FIXED	09/30/19	50,000,000	0	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize savings, and will save 147,719 kWh of electricity per year (65%), which is enough electricity to power 14 homes.
LOUISIANA	DISTRICT OF REG GESMAR, LLC	BIOR	RATE BIOREFINERY ASST PROGRAM - FIXED GUARANTEED 841 % FEE LOAN	09/30/19 11/01/18	75,000,000 4,438,000	0	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize savings, and will save 13,213 kWh of electricity per year (77%), which is enough electricity to power 12 homes.
LOUISIANA	ROSEPHINE RETIREMENT & REHAB CENTER LLC	EET	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/21/19	0	12,859	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize savings, and will save 13,213 kWh of electricity per year (77%), which is enough electricity to power 12 homes.
LOUISIANA	S & W WHOLESALE FOODS LLC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	05/20/19	0	34,020	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize savings, and will save 13,213 kWh of electricity per year (77%), which is enough electricity to power 12 homes.
LOUISIANA	SABINE RETIREMENT & REHAB CENTER LLC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	05/21/19	0	18,874	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize savings, and will save 13,213 kWh of electricity per year (77%), which is enough electricity to power 12 homes.
LOUISIANA	SOUTHERN HOME FURNISHING, INC.	REAP	REAP-MANDATORY RENEW ENERGY SVST GRANTS	05/20/19	0	21,105	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to purchase a 46 kW Solar System and install on roof. This project will realize \$7.51 per year in savings, and will replace 68,307 kWh of electricity per year which is enough electricity to power 6 homes.

Borrower or Grantee	Program	Program Description	Date Originated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
CHLCE ALLEGRA HOLDINGS LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/12/19	0	5,568	0	The Rural Development investment will be used to purchase and install a 4.16 kW Solar PV roof-mounted system on a new building. Annual energy production is projected at 46,026 kWh representing 50% of electrical demands for this rural small business.
COASTAL ENTERPRISES, INC.	RMAP	DISCRETION ASSIST MICROENTERPRISE	09/24/19	0	17,724	0	0 revolving loan fund & technical assistance grants
COMMUNITY CONCEPTS FINANCE CORPORATION	RMAP	DISCRETION ASSIST MICROENTERPRISE	09/24/19	0	56,861	0	Funds will be used to capitalize a rural microloan revolving fund to make microloans & technical assistance to rural microentrepreneurs and rural enterprises.
COUNTY OF ARCOSTOCK	RREG	RBCS ENTERPRISE GRANTS	08/03/19	0	92,686	0	The Rural Development investment will be used by County of Arcostock to purchase this equipment to replace an aging and damaged trail groomer and will allow continued access to area businesses along ITS trails 81, 75, and 105 during the winter months. County of Arcostock will assist 6 area businesses. Total project cost is \$203,543.
CRASBURY ISLES FISHERMANS CO-OP	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	07/11/19	0	31,047	0	The Rural Development investment will be used for the purchase and installation of a 45.36 kW Solar Electric roof-mounted system. Crasbury Isle Lobster Harvests and traps will realize \$3,020 in savings per year and generate \$1,088 kWh annually, replacing all of the business energy needs. The purpose of this funding program is to assist farmers, ranchers, and microbusinesses in realizing sustainable energy systems, and in realizing energy efficiency improvements to their operations.
EASTERN MEDIC CORP	RMAP	DISCRETION ASSIST MICROENTERPRISE	09/24/19	0	82,768	0	Funds to be used to capitalize a Rural Microloan Revolving Fund to make microloans and provide technical assistance to rural microentrepreneurs and rural enterprises.
EDWIN PELLETIER AND SONS, INC. REAP	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	07/03/19	0	37,710	0	Project funds will be used to purchase and install a 61.6 kW Solar PV ground-mounted system. This project will replace 74,227 kWh (93%) and realize \$10,305 in savings per year.
FOSTOWN BREWING COMPANY, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/24/19	0	9,750	0	The Rural Development investment will be used to purchase and install a 17.4 kW solar PV array to benefit this small business. Since 2017, Fogtown Brewing Company, LLC has been purchasing a 17.4 kW solar PV array to offset its energy needs. The project will realize \$3,834 in savings per year. The purpose of this funding program is to assist farmers, ranchers, and microbusinesses in realizing sustainable energy systems, and in realizing energy efficiency improvements to their operations.
FOREIGN AUTOWORKS, INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/24/19	0	15,761	0	The Rural Development investment will be used to purchase and install a 24.09 kW solar PV array to benefit this small business. Foreign Autoworks, Inc has been providing automobile repair services for over 20 years. The project will replace 27,149 kWh annually, realizing \$3,524 in savings per year and generate 27,149 kWh annually, replacing all of the business energy needs. The purpose of this funding program is to assist farmers, ranchers, and rural enterprises in realizing sustainable energy systems, and in realizing energy efficiency improvements to their operations.
GATEWAY SNOWMOBILE CLUB, INC.	RREG	RBCS ENTERPRISE GRANTS	06/03/19	0	99,900	0	The Rural Development investment will be used by Gateway Snowmobile Club, Inc to purchase snowmobile trail grooming equipment. This equipment will replace an aging and damaged snowmobile trail groomer and will allow continued access to area businesses during the winter of the community as it will allow continued access to area businesses during the winter of 3 months. Gateway Snowmobile Club, Inc will assist 5 area businesses and save a total of \$10,000.
JAC FABRICATION	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/12/19	0	20,000	0	The Rural Development investment will be used to purchase and install a 42.24kW Solar PV system on a new building.
LEAVITT FARMS, LLC	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	07/03/19	0	89,615	0	Project funds will be used to purchase and install a 103 kW Solar PV ground-mounted system. This project will realize \$3,533,000 in savings per year and generate 275,963 kWh annually, replacing all of the business energy needs.
LEE S WILBUR & CO	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/12/19	0	13,475	0	Project funds will be used to purchase and install a 2.156 kW Solar PV roof-mounted system. This project will realize \$2,043 in savings per year and generate 2,043 kWh of electrical demands for this small business.

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount
MAINE	LUBEC BREWING COMPANY LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/20/19	0	34,456	0
MAINE	MAINE BEER COMPANY LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/20/19	0	90,878	0
MAINE	MAINE POTATO GROWERS INC	BI	BUSINESS & INDUSTRY GUARANTEED LOAN-1%	03/28/19	89,500	0	0
MAINE	MAINE POTATO GROWERS INC	BI	BUSINESS & INDUSTRY GUARANTEED LOAN-1%	03/28/19	1,156,000	0	0
MAINE	MAINE POTATO GROWERS INC	BI	BUSINESS & INDUSTRY GUARANTEED LOAN-1%	03/28/19	250,000	0	0
MAINE	MORNINGSTAR MARBLE AND GRANITE INC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/03/19	0	60,000	0
MAINE	NORTHERN MAINE DEV	RMAP	DISCRETION ASSIST MICROENTERPRENEURS	06/24/19	0	85,004	0
MAINE	POC LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/03/19	0	92,809	0
MAINE	SEBASTICUS VALLEY SNOWMOBILE CLUB	RREG	RSCS ENTERPRISE GRANTS	06/03/19	0	97,500	0
MAINE	SHAWNEE PEAK HOLDINGS, LLC	RES	MAINE RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/24/19	0	12,891	0
MAINE	SHEEPSOOT GENERAL LLC	RDAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/03/19	0	26,750	0

Project Description
 Project funds will be used to purchase and install a 42 KW solar PV ground-mounted system. The project will realize \$5.48 in savings per year and generate 60,220 kWh annually, replacing all of the business energy needs.
 Project funds will be used to purchase and install a 163.71 KW Solar Electric roof-mounted system. This project will replace 223,762 kWh (0 %) and realize \$53,027 in savings per year.
 Maine Potato Grower's is a diversified farmer's supply and marketing cooperative located in Presque Isle, ME. MPG has provided vital products and services to their customers since 1932. Through recent business restructuring, they have streamlined their products and services to truck and tractor, lubricants, grain and a small potato sales division. Project funds will be used to refinance an existing line of credit and improve cash flow using affordable amortization terms with a new lender, saving this business from forced liquidation and saving 0.23 well-paying rural jobs.
 Maine Potato Grower's is a diversified farmer's supply and marketing cooperative located in Presque Isle, ME. MPG has provided vital products and services to their customers since 1932. Through recent business restructuring, they have streamlined their products and services to truck and tractor, lubricants, grain and a small potato sales division. Project funds will be used to refinance an existing line of credit and improve cash flow using affordable amortization terms with a new lender, saving this business from forced liquidation and saving 0.23 well-paying rural jobs.
 Maine Potato Grower's is a diversified farmer's supply and marketing cooperative located in Presque Isle, ME. MPG has provided vital products and services to their customers since 1932. Through recent business restructuring, they have streamlined their products and services to truck and tractor, lubricants, grain and a small potato sales division. Project funds will be used to refinance an existing line of credit and improve cash flow using affordable amortization terms with a new lender, saving this business from forced liquidation and saving 0.23 well-paying rural jobs.
 Funds are for a working loan fund, technical assistance grants.
 Project funds will be used to purchase and install a 163.71 KW Solar PV ground-mounted system. This project will realize \$18,515 in savings per year and generate 205,420 kWh annually, replacing all of the business energy needs.
 The Rural Development Investment will be used by Sebastiacus Valley Snowmobile Club to purchase snowmobile trail grooming equipment. This equipment will replace an old and maintenance heavy trail groomer. The equipment will allow continued access to area businesses and trails. The investment will replace a heavy snowmobile trail groomer will assist 7 area businesses and save a total of 11 new jobs. Total project cost is \$204,072.
 This Rural Development Investment will be used for the purchase and installation of a 20.48 KW roof-mounted solar array. Shawnee Peak Holdings, LLC owns and operates a Shawnee Peak Ski Area. The investment will replace a 20.48 KW solar array and realize \$2,875 in savings per year and generate 22,571 kWh annually, replacing all the business energy needs. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in adopting renewable energy systems, and in realizing energy efficiency improvements to their operations.
 Project funds will be used to purchase and install a 54.6 KW Solar PV roof-mounted system.
 This project will replace 70,856 kWh (14 %) and realize \$9,835 in savings per year.

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RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MARYLAND	M.S. JOHNSTON CO., INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/22/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a \$2.22 MW roof mount solar array. M.S. Johnston Company, a small business that specializes in commercial sales and repairs of numerous mechanical and refrigeration equipment, will use the funds to purchase and install solar panels and inverters on the roof of its building. The project will save enough electricity to power 5 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MARYLAND	MAIN STREET HISTORIC CHESTERTOWN	REGO	RSCS DEVELOPMENT GRANT	07/25/19	0	35,000		This Rural Development investment will be used to implement a Business Intervention, Retention, and Expansion Program in downtown Chestertown to help revitalize and transform the area into a destination for residents and tourists. Funds will be used to provide additional marketing and signage, create new jobs, and attract new businesses downtown. The additional funding is from the applicant, Main Street Historic Chestertown. The purpose of this funding program is to fund business opportunity and enterprise projects that serve rural areas.
MARYLAND	MARYLAND CAPITAL ENTERPRISES, INC.	RWAP	DISCRETION ASSIST MICROENTERPRISE	09/27/19	0	96,039		Rural Development Loan funds will be used to capitalize a Rural Microloan Revolving Fund to make microloans to rural microentrepreneurs and microenterprises. The project targeted areas include the rural counties of Caroline, Dorchester, Kent, Somerset, Queen Anne's, and Talbot and Worcester counties as well as the rural areas of Anne Arundel and Baltimore counties.
MARYLAND	MARYLAND, STATE OF	RREG	RSCS ENTERPRISE GRANTS	07/26/19	0	36,000		This Rural Development investment will be used to provide assistance and training to pre-qualified rural businesses in the counties of Carroll, Charles, Frederick, Harford and Queen Anne's Counties. Stable owners will learn how to market and expand their business. Successful marketing and expansion will result in supporting and creating new jobs. The purpose of this funding program is to fund various business opportunity and enterprise projects that serve rural areas.
MARYLAND	MOON GROUP, INC.	BI	GUARANTEED BI 3% FEE LOAN	03/29/19	10,000,000	0		This Rural Development loan guarantee investment will be used to provide long-term real estate and capital equipment financing to a rural wholesale nursery business specializing in landscaping and site management services. The rural small business has been in existence for over 40 years and has a strong track record. The loan will be used to purchase new equipment and will be used for debt refinancing, working capital, and associated loan costs and fees. This rural small business is expected to improve cash flow and retain 300 jobs in Chesapeake City, Maryland. The project is funded by the U.S. Small Business Administration. The rural small business has been in existence for over 16 years, and has been in operation for more than 40 years of operational history. Additional funding includes 0 to \$5,000,000 SBA Loan.
MARYLAND	MDO RESEARCH FOUNDATION	RREG	RSCS BREG TRANSPORTATION - REGULAR GRANT	07/10/19	0	456,032		This Rural Development grant investment will be used to provide technical assistance and training to rural communities to improve passenger transportation services or facilities. Funds will be focused on projects in Arkansas (Counties of Crawford, Franklin, Logan, Polk, and Van Buren), Colorado (County of El Paso), Connecticut (County of Fairfield), Georgia (Counties of Burke, Glascock, Hancock, Jefferson, Lincoln, McBride, Screven, Tallapoosa, Warren, Washington, and Wilkes), Idaho (County of Blaine), Illinois (County of Adams), Indiana (County of Adams), Iowa (County of Adams), Kansas (County of Adams), Kentucky (County of Adams), Louisiana (County of Adams), Maine (County of Adams), Massachusetts (County of Adams), Michigan (County of Adams), Minnesota (County of Adams), Missouri (County of Adams), Montana (County of Adams), Nebraska (County of Adams), Nevada (County of Adams), New Hampshire (County of Adams), New Jersey (County of Adams), New Mexico (County of Adams), New York (County of Adams), North Carolina (County of Adams), North Dakota (County of Adams), Ohio (County of Adams), Oklahoma (County of Adams), Oregon (County of Adams), Pennsylvania (County of Adams), Rhode Island (County of Adams), South Carolina (County of Adams), South Dakota (County of Adams), Tennessee (County of Adams), Texas (County of Adams), Utah (County of Adams), Vermont (County of Adams), Virginia (County of Adams), Washington (County of Adams), West Virginia (County of Adams), Wisconsin (County of Adams), Wyoming (County of Adams).
MARYLAND	MDO RESEARCH FOUNDATION	RREG	RSCS BREG TRANSPORTATION - REGULAR GRANT	09/24/19	0	500,000		This Rural Development grant investment will be used to provide technical assistance and training to rural areas to improve passenger transportation services or facilities. Funds will be focused on projects in Kentucky (County of Adams), Maryland (County of Adams), Michigan (County of Adams), Minnesota (County of Adams), Missouri (County of Adams), Montana (County of Adams), Nebraska (County of Adams), Nevada (County of Adams), New Hampshire (County of Adams), New Jersey (County of Adams), New Mexico (County of Adams), New York (County of Adams), North Carolina (County of Adams), North Dakota (County of Adams), Ohio (County of Adams), Oklahoma (County of Adams), Oregon (County of Adams), Pennsylvania (County of Adams), Rhode Island (County of Adams), South Carolina (County of Adams), South Dakota (County of Adams), Tennessee (County of Adams), Texas (County of Adams), Utah (County of Adams), Vermont (County of Adams), Virginia (County of Adams), Washington (County of Adams), West Virginia (County of Adams), Wisconsin (County of Adams), Wyoming (County of Adams).
MARYLAND	MDO RESEARCH FOUNDATION	REGO	RSCS TRANSPORTATION - NATIVE AMERICAN GRANT	09/24/19	0	250,260		This Rural Development grant investment will be used to provide technical assistance and training to rural areas to improve passenger transportation services or facilities. Funds will be focused on projects in Arizona (County of Adams), California (County of Adams), Colorado (County of Adams), Connecticut (County of Adams), Delaware (County of Adams), Florida (County of Adams), Georgia (County of Adams), Hawaii (County of Adams), Idaho (County of Adams), Illinois (County of Adams), Indiana (County of Adams), Iowa (County of Adams), Kansas (County of Adams), Kentucky (County of Adams), Louisiana (County of Adams), Maine (County of Adams), Massachusetts (County of Adams), Michigan (County of Adams), Minnesota (County of Adams), Missouri (County of Adams), Montana (County of Adams), Nebraska (County of Adams), Nevada (County of Adams), New Hampshire (County of Adams), New Jersey (County of Adams), New Mexico (County of Adams), New York (County of Adams), North Carolina (County of Adams), North Dakota (County of Adams), Ohio (County of Adams), Oklahoma (County of Adams), Oregon (County of Adams), Pennsylvania (County of Adams), Rhode Island (County of Adams), South Carolina (County of Adams), South Dakota (County of Adams), Tennessee (County of Adams), Texas (County of Adams), Utah (County of Adams), Vermont (County of Adams), Virginia (County of Adams), Washington (County of Adams), West Virginia (County of Adams), Wisconsin (County of Adams), Wyoming (County of Adams).

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MARYLAND	POCOMOKE CITY	REEG	RSCS ENTERPRISE GRANTS	07/26/19	0	12,350		This Rural Development investment will be used to hire a consultant who will develop a business plan for Pocomoke City. The consultant will be responsible for developing the business plan, developing the campaign design and outline, to design and create rack cards, a website, a social media presence, online and print advertising, and for radio promotions. The purpose of the investment is to fund various business opportunity and enterprise projects that will serve rural areas.
MARYLAND	QUINN, JAMES B	EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/28/19	0	12,704		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a grain dryer. James B. Quinn is an independent farmer who operates a 100-acre farm in Salisbury, Maryland. The project will replace 25,673 kWh (67%) per year, which is enough electricity to power 3 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MARYLAND	R & F AQUAFARMS, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/04/19	0	46,225		This Rural Development investment will be used for the purchase and installation of a 88.1 kW roof mount solar array. R&F Aquafarms, a small rural business that operates a turtle hatchery, will use the solar array to power its operations. The project will save enough electricity to power 10 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MARYLAND	RICES INC.	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/20/19	0	7,805		This Rural Development investment will be used for the purchase and installation of a 10,725 kW solar array. Rices, a family-owned farm in Salisbury, Maryland, will use the solar array to power its operations. The project will replace 11,298 kWh of electricity per year (100%), which is enough electricity to power 1 home. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MARYLAND	SAMUEL T. PARKER	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/14/19	0	118,000		This Rural Development investment will be used for the purchase and installation of a 44,539.97 kW solar array. Samuel T. Parker is a family-owned farm for grains and poultry houses and will use the solar array to power its operations. The project will replace 40,133 kWh (101%) per year. This project will save enough electricity to power 36 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MARYLAND	SMARTTECH ELECTRICAL, INC.	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	11,250		This Rural Development investment will be used for the purchase and installation of a 12,793 kW solar array. Smarttech Electrical, a family-owned business, will use the solar array to power its day-to-day operations for Smarttech Electrical. This project will realize \$2,188.43 per year in savings, and will replace 16,218 kWh of electricity per year (127%), which is enough electricity to power 3 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MARYLAND	TEDDY BEAR FRESH PRODUCE LLC	REAP	REAP-MAND-ENERGY EFF IMPROV GRANTS	06/11/19	0	44,541		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a 19,441 kW solar array. Teddy Bear Fresh Produce, LLC, is a produce store providing produce to the aggregation for wholesale distribution to regional institutional and retail customers. This project will realize \$26,856 per year in savings, and will replace 246,523 kWh (100%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MARYLAND	WILLIAMSON FARMS, LLC	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/27/19	0	13,260		This Rural Development investment will be used for the purchase and installation of a 19,441 kW solar array. Williamson Farms, LLC, is a family-owned business that operates a 100-acre farm. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

RBCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MARYLAND	WILSON FARM	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/18/19	0	0	20,000	This Rural Development Investment will be used for the purchase and installation of a 48.29 kW ground solar array. Wilson Farm, a family-owned and operated grain farm, will realize \$10,089 per year in savings, and will replace 81,300 kWh of electricity per year (100%). The project will also provide training and technical assistance to the farmer to assist in the development of a business plan and to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/14/19	0	27,336	0	This Rural Development Investment will be used for the purchase and installation of a 87.5kW solar array on the farm of Woodvale Partners, LLC. This project will replace 96,311 kWh (107%) per year and realize \$6,425.50 of savings per year. The purpose of this funding program is to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	MASSACHUSETTS ANTANAVICA SOLAR, LLC	BI	GUARANTEED 8% 3% FEE LOAN	08/12/19	1,100,000	0	0	This Rural Development loan guarantee investment will be used to provide permanent, long term financing for the purchase & installation of a 1.3 MW ground-mounted solar electric generating facility. The system will produce 1,775 kWh of energy annually.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/11/19	0	0	18,885	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will realize \$2,725 per year in revenue, and installation of a 25.2 kW solar array. This project will realize \$2,725 per year in revenue, and will generate 30,000 kWh which is enough electricity to power 2.77 homes.
	MASSACHUSETTS BAYSIDE AGRICULTURAL, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/30/19	0	43,300	0	This Rural Development Investment will be used for the purchase and installation of a 37.2 kW solar array. Bayside Agricultural, a local rancher, will realize \$14,502 per year in savings, and will replace 85,292 kWh (133 %) per year. This project will save enough electricity to power 7 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	0	16,008	This Rural Development Investment will be used for the purchase and installation of a 15.84 kW roof mounted solar array. SN Smith Farm will realize \$4,198 per year in savings, and will replace 22,000 kWh of electricity per year. The project will also provide training and technical assistance to the farmer to assist in the development of a business plan and to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	MASSACHUSETTS C. N. SMITH FARM INC	IRP	INTERMEDIARY RELENDING PROGRAM	06/25/19	0	0	1,000,000	This Rural Development Investment will be used to provide investment loans to Cape Cod Growers to assist in the development of a business plan and to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		RMAP	DISCRETION ASSIST MICROENTERPRENERS	09/26/19	0	72,487	0	Grant funds will be used to provide technical assistance along with the revolving loan funds for rural micro loans.
		REBQ	RBC'S ENTERPRISE GRANTS	07/18/19	0	35,000	0	This Rural Development Investment will be used to support renewable energy and energy efficient technical assistance through individualized training with farmers and rural small businesses. This may include REAP application assistance.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/11/19	0	0	20,000	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 45 kW solar array. This project will realize \$8,135 per year in savings, and will replace 9,139 kWh (122 %) per year, which is enough electricity to power 4.76 homes.
MASSACHUSETTS COMMUNITY FARMS, INC.	COMMERCIAL KITCHEN COOP OF MASSACHUSETTS CAFE CDD, INC.	REBQ	RBC'S ENTERPRISE GRANTS	07/18/19	0	20,000	0	This Rural Development Investment will be used to develop a workforce and create employment opportunities for 60 the restaurants and food related businesses by finding and training workers for the food service industry. The project will also provide training and technical assistance to the farmer to assist in the development of a business plan and to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		REBQ	RBC'S ENTERPRISE GRANTS	07/29/19	0	28,000	0	This Rural Development Investment will be used to provide technical assistance in the form of planning, assessment and marketing to a group of farmers through a marketing cooperative.
		REBQ	RBC'S ENTERPRISE GRANTS	07/29/19	0	28,000	0	

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MASSACHUSETTS	MASSACHUSETTS COGNOMESSETT FARM INC.	RES	MANU. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	7,304		This Rural Development Investment will be used for the purchase and installation of a 8.8kW roof-mounted solar array. Cognomasset Farm Inc will realize \$1,811 per year in savings, and will replace 10,099kWh per year. The purpose of this funding program is to encourage rural businesses to invest in renewable energy systems, and in making energy-efficiency improvements to their operations.
		SSDPG	SMALL SOCIALLY DISADVANTAGED PRODUCER GRANT	09/22/19	0	114,912		This Rural Development Investment will be used to support the implementation and evaluation of cooperative development training and technical assistance for socially-disadvantaged producers in the Cape Cod region. The project will provide training and technical assistance to develop vegetable, livestock, prepared foods, a food truck and composting businesses in the Northeast. Funds will be used to assist approximately 187 businesses consisting of 170 individuals, 12 groups and 5 cooperatives.
	MASSACHUSETTS COGNOMESSETT FARM INC.	RCDG	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/25/19	0	200,000		This Rural Development Investment will be used to improve the economic conditions of rural areas through cooperative development, i.e. create new co-ops and mutually-owned businesses, expand and/or strengthen financing, markets, infrastructure, operations, and support cooperatively structured businesses, in doing so, create 10 and save 50 jobs.
		RREG	RBGS ENTERPRISE GRANTS	07/18/19	0	16,000		This Rural Development Investment will be used to secure planning and installation costs for the new equipment in the kitchen that will serve as a collective creative and cultural output for the community. The project will provide training and technical assistance to develop vegetable, livestock, prepared foods, a food truck and composting businesses in the Northeast. Funds will be used to assist approximately 187 businesses consisting of 170 individuals, 12 groups and 5 cooperatives.
	MASSACHUSETTS COGNOMESSETT FARM INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/30/19	0	17,288		This Rural Development Investment will be used for the purchase and installation of a 31.8kW roof-mounted solar array. Farmer Davies will realize \$7,316 per year in savings, and will replace 31,810kWh per year. This project will save enough electricity to power 2.34 homes. The project will provide training and technical assistance to develop vegetable, livestock, prepared foods, a food truck and composting businesses in the Northeast. Funds will be used to assist approximately 187 businesses consisting of 170 individuals, 12 groups and 5 cooperatives.
		RES	MANU. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/11/19	0	19,912		Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in the Cape Cod region to invest in renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 24.9 kW solar array. This project will realize \$67,859 per year in savings, and will replace 31,226 kWh (152 %) per year, which is enough electricity to power 2.88 homes.
	MASSACHUSETTS COGNOMESSETT FARM INC.	RREG	RBGS ENTERPRISE GRANTS	07/29/19	0	18,000		This Rural Development Investment will be used to provide technical assistance to entrepreneurs and rural small businesses located throughout the economically-disadvantaged communities in the form of training classes, workshops, one-on-one business counseling, and general economic instability during the off season so this program helps support the grants funds will be used to provide business-based technical assistance and training to eligible rural micro entrepreneurs in accordance with the original loan approved by USDA
		RMAP	DISCRETION ASSIST MICRO-ENTREPRENEURS	09/29/19	0	73,091		This Rural Development Investment will be used to continue to provide support to small businesses on the lower Cape Cod to include providing training, technical assistance and other business assistance and guidance regarding business development, business growth and expansion, and general economic instability during the off season so this program helps support 0 year-round businesses on the Cape. Jobs created: 15 Jobs saved:36
	MASSACHUSETTS COGNOMESSETT FARM INC.	RREG	RBGS ENTERPRISE GRANTS	07/18/19	0	45,000		This Rural Development Investment will be used to support small and emerging artists and their businesses, who live in eligible rural areas of Rhode Island, through training and technical assistance related to the stabilization and growth of those businesses. The technical assistance and training is provided through the Assets for Artists program which is delivered at the Cape Cod Center for the Arts, a non-profit organization that provides business and business consulting and classroom education and training in all areas of business development. This program is also supported by the RI State Council of the Arts.
		RREG	RBGS ENTERPRISE GRANTS	07/29/19	0	12,000		

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MASSACHUSETTS	TTC ENERGY, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/29/19	0	250,000	0	<p>This Rural Development investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. TTC Energy, LLC is a newly formed company that will install solar panels on the roof of the building at the farmstead and the installation of 2 automated chicken houses both systems. The building convert solar green wood into a uniform, energy dense form of wood chip fuel through a drying process. Once fully up & running, this project will generate 11,608,000.000 btus of energy annual.</p> <p>This Rural Development investment will be used for the purchase and installation of a 70W solariculture-panelled array mounted to the glass greenhouse. We Grow Microgreens LLC will realize \$1,638 per year in savings, and will replace 8,189 MWh per year. The purpose of this investment is to assist small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p> <p>This Rural Development investment will be used to fund the purchase of a Corvair Subaru Crosstrek in Benton Harbor, MI. Because of this transfer of ownership, 22 jobs will be saved in the Benton Harbor community. In addition to the funding provided by the USDA Guarantee, the borrower will be investing over \$1,000,000 in funds to ensure the success of this business.</p>
MASSACHUSETTS	WE GROW MICROGREENS, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS	05/29/19	0	6,733	0	
MICHIGAN	ALMONT VILLAGE OF	REEG	RBGS ENTERPRISE GRANTS	07/24/19	0	56,520	0	
MICHIGAN	ALPINE HOSPITALITY GROUP, LLC, BI	BI	GUARANTEED BAI 3% FEE LOAN	09/27/19	2,621,000	0	0	
MICHIGAN	AVENUE A PROPERTIES, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS	05/29/19	0	20,000	0	
MICHIGAN	BAYWATCH RESORT LLC	BI	GUARANTEED BAI 3% FEE LOAN	06/17/19	3,470,000	0	0	
MICHIGAN	BEAVERTON CITY OF	REEG	RBGS ENTERPRISE GRANTS	06/27/19	0	100,000	0	
MICHIGAN	BEAVERTON CITY OF	REEG	RBGS ENTERPRISE GRANTS	06/27/19	0	100,000	0	<p>This Rural Development investment will be used to assist with developing & expanding the Market Pavilion in the Rural City of Beaverton, Michigan.</p> <p>This Rural Development investment will be used for the purchase and installation of a 42.84 kW solar PV system to help a rural small business. The real estate holding company is currently operating a 100 acre horse farm and will realize \$1,450 per year in savings and will replace 54,460 MWh (100%) per year which is enough energy to power 5 homes. Project payback is 9 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p> <p>This Rural Development investment will be used to assist with developing & expanding the Market Pavilion in the Rural City of Beaverton, Michigan.</p>
MICHIGAN	BLISS GARDENS INC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/23/19	0	5,819	0	
MICHIGAN	BLOEMBERG GROWERS, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/16/19	0	35,862	0	<p>This Rural Development investment will be used for the purchase and installation of a 85 kW solar PV system to help a rural small business. The real estate holding company is currently operating a 100 acre horse farm and will realize \$1,450 per year in savings and will replace 54,460 MWh (100%) per year which is enough energy to power 5 homes. Project payback is 9 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p> <p>This Rural Development investment will be used for the purchase and installation of a 85 kW solar PV system to help a rural small business. The real estate holding company is currently operating a 100 acre horse farm and will realize \$1,450 per year in savings and will replace 54,460 MWh (100%) per year which is enough energy to power 5 homes. Project payback is 9 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
MICHIGAN	BOSCH'S COUNTRY VIEW NURSERY, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/23/19	0	25,935	0	<p>This Rural Development investment will be used for the purchase and installation of a 70 kW solar PV system to help a rural small business. The real estate holding company is currently operating a 100 acre horse farm and will realize \$1,450 per year in savings and will replace 54,460 MWh (100%) per year which is enough energy to power 5 homes. Project payback is 9 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MICHIGAN	BRINK TERMINAL SERVICES, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST	07/24/19	0	0	50,000	This Rural Development investment will be used for the purchase and installation of a 140.00 KW solar PV system to help a rural small business. The applicant is a commercial liquid storage terminal operation that has been in business over 22 years. This project will realize \$ 33,701 kWh per year. Project payback is 11 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy 0 systems, and in making energy-efficiency improvements to their operations.
MICHIGAN	CHARLTON RESTORATION CO	BI	GUARANTEED BI 3% FEE LOAN	06/21/19	5,342,000	0	0	
MICHIGAN	CHART HOUSE ENERGY INVESTMENT FUND, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST	07/29/19	0	14,603	0	This Rural Development investment will be used for the purchase and installation of a 27 KW solar PV system to help a rural small business. The applicant is a small solar electric power producer that has been in business over 10 years. This project will realize income of \$5,831 per year and generate 33,701 kWh per year. Project payback is 11 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy 0 systems, and in making energy-efficiency improvements to their operations.
MICHIGAN	CHIKAMING TOWNSHIP	RREG	RBCS ENTERPRISE GRANTS	07/15/19	0	70,000	0	This Rural Development investment will be used to fund the design and engineering for infrastructure and streetscape improvements to Union Pier's business corridor. The project includes the purchase and installation of a 100 KW solar PV system to help a rural small business. The project will realize income of \$5,831 per year and generate 33,701 kWh per year. Project payback is 11 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy 0 systems, and in making energy-efficiency improvements to their operations.
MICHIGAN	CHRISTOFF COMMERCIAL PROPERTIES, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST	07/29/19	0	16,853	0	This Rural Development investment will be used for the purchase and installation of a 20.40 KW solar PV system to help a rural small business. The applicant is a commercial real estate development company that recently purchased and is improving a commercial warehouse building in an economically depressed area. This project will realize \$3,795 per year in savings and will replace 53,321 kWh (64%) per year. Project payback is 10 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MICHIGAN	COLON VILLAGE CF	RREG	RBCS ENTERPRISE GRANTS	06/19/19	0	15,000	0	
MICHIGAN	COPPER CORPORATION	REAP	REAP-MANDATORY RENEW ENERGY SYST	07/24/19	0	20,000	0	This Rural Development investment will be used for the purchase and installation of a 95 KW Solar PV System to help a rural small business. The privately owned business is a hotel run under the brand flag of Holiday Inn Express. This project will realize \$16,476 per year in savings and will replace 53,321 kWh (64%) per year. Project payback is 11 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MICHIGAN	COUNTRY MILL FARMS, LLC	RES	MAND. RENEW ENERFY SYSTEMS GRANTS	03/27/19	0	18,750	0	This Rural Development investment will be used for the purchase and installation of a 49.16 KW solar PV system to help a veteran owned rural small business. The first and vegetable farmland has been in business for over 15 years. This project will realize \$12,771 per year in savings and will replace 53,321 kWh (64%) per year. Project payback is 10 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MICHIGAN	ELLENWORTH VILLAGE CF	RREG	RBCS ENTERPRISE GRANTS	07/29/19	0	7,000	0	
MICHIGAN	FROST LEGACY FARMS, LLC	REAP	REAP-MAND ENERGY EFF. IMPROV GRANTS	07/29/19	0	48,865	0	This Rural Development investment will be used for the purchase and installation of a 49.16 KW solar PV system to help a veteran owned rural small business. The first and vegetable farmland has been in business for over 15 years. This project will realize \$12,771 per year in savings and will replace 53,321 kWh (64%) per year. Project payback is 10 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MICHIGAN	FRUIT RIDGE APPLE CO LLC	RES	MAND. RENEW ENERFY SYSTEMS GRANTS UNDER \$20,000	03/27/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a 460.60 kW solar PV system to help an Agricultural Producer. The farming operation is an apple orchard and processing company in Southwest Michigan. This project will realize \$24,865 in savings, and will replace 66,798 kWh (69%) per year, which is enough electricity to power 18 homes. Project payback is 9 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MICHIGAN	GESLER ENTERPRISES, INC.	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/31/19	0	67,439		This Rural Development investment will be used for the purchase and installation of multiple energy efficiency improvements for a commercial industrial building to help a rural small business. The improvements include replacing interior & exterior lighting to LEDs, replacing windows, manual doors, and overhead doors, adding insulation to ceiling and wall eaves, and adding insulation to roof. The project will realize \$17,020 in savings, and will replace 210,853 kWh (25%) per year which is enough energy to power 19 homes. Project payback is 35 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	GLADIATOR INVESTMENT GROUP LLC	BI	GUARANTEED BAI 3% FEE LOAN	04/09/19	4,960,000	0	0	This Rural Development investment will be used to provide a guaranteed loan to purchase a vacant commercial building in Gaylord, Michigan. The facility houses 3 large businesses who are currently operating out of the building. The loan will be a 3-year loan with a 0% interest rate and a 3% reasonable interest rate and longer term on their loan.
MICHIGAN	GOLDEN LIMOUSINE INC.	EI	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	04/03/19	0	15,971		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting for interior and exterior lighting for the Golden Limousine Company. The improvements include replacing interior and exterior lighting with LED lighting. The project will realize \$7,412 per year in savings, and will replace 66,798 kWh (69%) per year, which is enough electricity to power 18 homes. Project payback is 9 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	GREAT LAKES ENERGY COOPERATIVE	REDLG	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	02/11/19	0	0	1,200,000	Funds are being used for a Rural Economic Development Loan to Great Lakes Energy Cooperative, who will in turn loan the funds to Mantell, Inc. Mantell will use these funds to purchase and install equipment that will ensure their competitive nature within their market.
MICHIGAN	GREEN WAGON FARM LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/23/19	0	13,790		This Rural Development investment will be used for the purchase and installation of a 20 kW solar PV system to help an Agricultural Producer. The farming operation is a horse farm and processing company in Michigan. This project will realize \$24,865 in savings, and will replace 66,798 kWh (69%) per year, which is enough electricity to power 18 homes. Project payback is 15 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	HMO INDUSTRIAL PROPERTIES, LLC	EI	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/30/19	0	20,000		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting for interior and exterior lighting for the rural HMO Industrial Properties, LLC. The improvements include replacing interior and exterior lighting with LED lighting. The project will realize \$36,609 per year in savings and will replace 262,286 kWh (70%) per year, which is enough energy to power 28 houses. Project payback is 9 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MICHIGAN	HAWKFOSSIL LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/23/19	0	6,456		This Rural Development investment will be used for the purchase and installation of a 5.76 kW solar PV system to help an Agricultural Producer. The family owned farming operation is a horse farm and processing company in Michigan. This project will realize \$24,865 in savings, and will replace 66,798 kWh (69%) per year. Project payback is 18 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MICHIGAN	HAYNES FARMS, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/29/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a 59.84 kW solar photovoltaic system for the Haynes Farms, LLC. The project will generate 78,798 kWh (84%) per year, which is enough energy to power 7 homes. Project payback is 10 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	HAYNES, TODD	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/29/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a 59.84 kW solar photovoltaic system for the Haynes Farms, LLC. The project will generate 78,798 kWh (84%) per year, which is enough energy to power 7 homes. Project payback is 10 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	HECHT, DARWIN S	EET	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	06/25/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a grain dryer replacement for an Agricultural Producer. The sole proprietor farms 287 acres in the Hecht family farm. The project will generate 40,326 kWh (50%) per year in savings and will save \$10,410 per year in savings and will save 286,338 kWh (20%) per year, which is enough energy to power 28 homes. Project payback is 8 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	HEIDT, MARK DONALD	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	12,100		This Rural Development investment will be used for the purchase and installation of a 50 KW roof mounted solar PV system to help an Agricultural Producer. The 135 acre grain farmer is located in the Heidt family farm. The project will generate 40,326 kWh (50%) per year in savings and will save \$10,410 per year in savings and will save 286,338 kWh (20%) per year, which is enough energy to power 28 homes. Project payback is 8 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	HIERBERGER, KEVIN	EET	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	09/21/19	0	14,448		This Rural Development investment will be used for the purchase and installation of a grain dryer replacement for an Agricultural Producer. The sole proprietor farms 287 acres in the Hierberger family farm. The project will generate 40,326 kWh (50%) per year in savings and will save \$10,410 per year in savings and will save 286,338 kWh (20%) per year, which is enough energy to power 28 homes. Project payback is 8 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	HOLY PLAIN PARTNERS, LLC	BI	GUARANTEED BAI 3% FEE LOAN	02/14/19	5,000,000	0		This Rural Development investment will be used for the purchase and installation of a grain dryer replacement for an Agricultural Producer. The sole proprietor farms 287 acres in the Holy Plain Partners, LLC. The project will generate 40,326 kWh (50%) per year in savings and will save \$10,410 per year in savings and will save 286,338 kWh (20%) per year, which is enough energy to power 28 homes. Project payback is 8 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	REGIONAL DEVELOPMENT CORPORATION	REEG	RSCS ENTERPRISE GRANTS	07/02/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a grain dryer replacement for an Agricultural Producer. The sole proprietor farms 287 acres in the Regional Development Corporation. The project will generate 40,326 kWh (50%) per year in savings and will save \$10,410 per year in savings and will save 286,338 kWh (20%) per year, which is enough energy to power 28 homes. Project payback is 8 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	JAGERWERKS ENGINEERING, LLC	BI	GUARANTEED BAI 3% FEE LOAN	05/17/19	1,304,000	0		This Rural Development investment will be used for the purchase and installation of a grain dryer replacement for an Agricultural Producer. The sole proprietor farms 287 acres in the Jagerwerks Engineering, LLC. The project will generate 40,326 kWh (50%) per year in savings and will save \$10,410 per year in savings and will save 286,338 kWh (20%) per year, which is enough energy to power 28 homes. Project payback is 8 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	KEEN WEH LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/23/19	0	9,783		This Rural Development investment will be used for the purchase and installation of a grain dryer replacement for an Agricultural Producer. The sole proprietor farms 287 acres in the Keen Weh LLC. The project will generate 40,326 kWh (50%) per year in savings and will save \$10,410 per year in savings and will save 286,338 kWh (20%) per year, which is enough energy to power 28 homes. Project payback is 8 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MICHIGAN	MICHIGAN STATE UNIVERSITY	REAR	REAP ENERGY AUDIT RECIPIENT	03/27/19	0	100,000	0	This Rural Development investment will be used by Michigan State University's Farm Energy Audit Program to fund energy audits for agricultural producers throughout the State of Michigan. These audits will provide analysis to make energy and cost saving improvements to their operations. The overall purpose of this program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	MOTZ VIEW FARMS LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/27/19	0	12,359	0	This Rural Development investment will be used for the purchase and installation of a 37.05 kW solar PV system to help an Agricultural Producer. The project will realize \$3,322 per year in savings, and will replace 45,499 kWh (134%) per year, with the excess energy being sold to the grid. The purpose of this funding program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	MOTZ, JERRY ALLAN	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/08/19	0	5,530	0	This Rural Development investment will be used for the purchase and installation of a 19.72 kW solar PV system to help an Agricultural Producer. The project will realize \$5,131 per year in savings and will replace 10,202 kWh (100%) per year for the farming operation. Project payback is 15 years. The purpose of this funding program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	NAM HOSPITALITY, LLC	RES BI	MAND. RENEW ENERGY SYSTEMS GRANTS GUARANTEED BAI 3% FEE LOAN	09/27/19	4,980,400	0	0	This Rural Development investment will be used for the purchase and installation of a 100 kW solar PV system to help an Agricultural Producer. The project will realize \$5,131 per year in savings and will replace 10,202 kWh (100%) per year for the farming operation. Project payback is 15 years. The purpose of this funding program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	NEW BUFFALO TOWNSHIP	REEG	RSCS ENTERPRISE GRANTS	07/15/19	0	35,430	0	This Rural Development investment will be used for the purchase and installation of a 74 kW roof mounted solar PV system to help a rural small business. The applicant is a real estate holding company that owns a large industrial commercial building that is leasing space to a large number of small businesses. The project will realize \$5,131 per year in savings and will replace 10,202 kWh (100%) per year which is enough energy to power 8 homes. Project payback is 10 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	NEW BUFFALO CITY OF	RIDQ	RSCS DEVELOPMENT GRANT	07/29/19	0	51,000	0	This Rural Development investment will be used for the purchase and installation of a 74 kW roof mounted solar PV system to help a rural small business. The applicant is a real estate holding company that owns a large industrial commercial building that is leasing space to a large number of small businesses. The project will realize \$5,131 per year in savings and will replace 10,202 kWh (100%) per year which is enough energy to power 8 homes. Project payback is 10 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	NORTHERN ECONOMIC INITIATIVES CORP	RMAP	DISCRETION ASSIST MICROENTERPRISE GRANTS	09/24/19	0	70,773	0	This Rural Development investment will be used for the purchase and installation of a 74 kW roof mounted solar PV system to help a rural small business. The applicant is a real estate holding company that owns a large industrial commercial building that is leasing space to a large number of small businesses. The project will realize \$5,131 per year in savings and will replace 10,202 kWh (100%) per year which is enough energy to power 8 homes. Project payback is 10 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	ONAWAY CITY OF	RIEG	RSCS ENTERPRISE GRANTS	07/05/19	0	54,000	0	This Rural Development investment will be used for the purchase and installation of a 74 kW roof mounted solar PV system to help a rural small business. The applicant is a real estate holding company that owns a large industrial commercial building that is leasing space to a large number of small businesses. The project will realize \$5,131 per year in savings and will replace 10,202 kWh (100%) per year which is enough energy to power 8 homes. Project payback is 10 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	PAD LOCK, LLC	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	07/22/19	0	35,976	0	This Rural Development investment will be used for the purchase and installation of a 74 kW roof mounted solar PV system to help a rural small business. The applicant is a real estate holding company that owns a large industrial commercial building that is leasing space to a large number of small businesses. The project will realize \$5,131 per year in savings and will replace 10,202 kWh (100%) per year which is enough energy to power 8 homes. Project payback is 10 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	PERSELLS, TERRY	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	3,854	0	This Rural Development investment will be used for the purchase and installation of a 74 kW roof mounted solar PV system to help a rural small business. The applicant is a real estate holding company that owns a large industrial commercial building that is leasing space to a large number of small businesses. The project will realize \$5,131 per year in savings and will replace 10,202 kWh (100%) per year which is enough energy to power 8 homes. Project payback is 10 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	PIGEON RIVER PROPERTIES, LLC	BI	GUARANTEED BAI 3% FEE LOAN	07/22/19	2,600,000	0	0	This Rural Development investment will be used to construct a truck wash facility, reference borrower's existing debt and provide working capital. The project will create 15 new jobs with an average wage of \$12.60/hour. The construction of the truck wash facility will serve the local community as the nearest current location is more than 22 miles away.

RECS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MICHIGAN	PROVIDENCE FARM, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	18,375		This Rural Development investment will be used for the purchase and installation of a 28.40 KW roof mounted solar PV system for an Agricultural Producer. The applicant is a Community Supported Agriculture (CSA) Farm that provides certified organic vegetables in the Grand Haven area. The project will generate 10,000 kWh of electricity per year and will provide 100% of the farm's electricity needs. The project will also provide training to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MICHIGAN	QUINCY VILLAGE OF	REG	RECS ENTERPRISE GRANTS	07/23/19	0	37,500		This Rural Development investment will be used for the purchase and installation of a 100 kW solar photovoltaic system for a residential building. Located in Village of Quincy. Also provide training to small businesses and
MICHIGAN	RAINA PROPERTIES INC.	BI	GUARANTEED B&I 3% FEE LOAN	02/05/19	3,345,000	0		0 Funds will be used to renovate and repurpose an existing, abandoned building into a farmers 0 market, community gathering space, and green-space.
MICHIGAN	READING CITY OF	REG	RECS ENTERPRISE GRANTS	07/19/19	0	47,500		Borrower is requesting \$3,700,000 B&I Guaranteed loan to finance the purchase of an existing Bear Western Hotel in Cobleskill, MI. The Guarantees will allow the Lender to be 0
MICHIGAN	RITAS HOSPITALITY INC	BI	GUARANTEED B&I 3% FEE LOAN	01/29/19	3,700,000	0		0 Project will save 21 jobs.
MICHIGAN	SAGINAW CHIPPEWA INDIAN TRIBE	RIOG	RECS DEVELOPMENT GRANT	07/23/19	0	51,000		This Rural Development investment will be used for the purchase and installation of a replacement grain dryer for an Agricultural Producer. The sole proprietor has been farming for over 40 years and currently consists of 350 acres. This project will realize \$1,421 per year in savings and will provide training to assist farmers, ranchers, and rural small businesses in developing renewable energy 0
MICHIGAN	SCHNEIDER, GENE	REAP	REAP-MAND ENERGY EFF. IMPROV. GRANTS	07/23/19	0	19,377		0 Working capital funds for their honey need to expand their market into Florida.
MICHIGAN	SLEEPING BEAR APARTS LTD	VAPG	VALUE-ADDED PRODUCER OVP GRANTS/DSCR	02/14/19	0	250,000		This Rural Development investment will be used to fund engineering costs associated with the Center Street reconstruction project in South Haven, MI. The entire project is a \$4MM investment by the City to upgrade water sewer lines as well as complete a streetscape improvement project. RECS funds will pay for a portion of the engineering 0
MICHIGAN	SOUTH HAVEN CITY OF	REG	RECS ENTERPRISE GRANTS	07/01/19	0	100,000		0 costs associated with the project.
MICHIGAN	ST LOUIS CITY OF	REG	RECS ENTERPRISE GRANTS	07/11/19	0	35,000		This Rural Development investment will be used for the purchase and installation of a 24.70 KW roof mounted solar PV system to help a rural small business. The privately owned business is a hotel run under the brand flag of Comfort Inn. This project will realize \$15,927 per year in savings and will provide training to assist farmers, ranchers, and rural small businesses in developing renewable energy 0
MICHIGAN	STAR HOSPITALITY, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/24/19	0	20,000		0 assist farmers, ranchers, and rural small businesses in developing renewable energy 0
MICHIGAN	STATE LINE FARMS	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/29/19	0	100,000		0 systems, and in making energy efficiency improvements to their operations.
MICHIGAN	STERMER, JONATHAN L.	EEl	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	06/20/19	0	13,250		This Rural Development investment will be used for the purchase and installation of a grain dryer replacement for an Agricultural Producer. The sole proprietor operation has been farming 35 acres for 28 years. This project will realize \$4,158 per year in savings and will provide training to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MICHIGAN	THE FALLS AT BARBER CREEK LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/29/19	0	16,425	0	This Rural Development investment will be used for the purchase and installation of a 35.50 kW solar PV system to help a rural small business. The applicant is a golf course that will be installing the solar panels on the roof of the club house and the cart barn. This project will be financed by a loan with a 3% interest rate and a 10 year term. The project will be repaid in 13 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MICHIGAN	THREE OAKS VILLAGE OF TRAVERSE CITY DOA	RREG	RECS ENTERPRISE GRANTS	07/15/19	0	79,000	0	This Rural Development investment will be used to create an 8" wide concrete ADA Connecting walkway from Elm St to Generations Dr. in Three Oaks, MI. At completion the two separate business districts will be connected and accessible to all. The project creates or preserves 35 jobs in the downtown area to ensure access to the small businesses for periods.
MICHIGAN	TUSCOLA COUNTY ECONOMIC DEVELOPMENT CORP	RREG	RECS ENTERPRISE GRANTS	07/17/19	0	50,000	0	This project is a revolving loan fund to assist Tascosa County.
MICHIGAN	TWO TRACKS ACRES, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	7,849	0	This Rural Development investment will be used for the purchase and installation of a 16.48 kW solar PV system to help a rural small business. The applicant is a family owned and operated resort that has been family owned and operated since 1938. This project will realize \$33,244 per year in savings and will replace 300,300 kWh (26%) per year, which is enough to offset the cost of the system. The project will be repaid in 15 years. The purpose of this program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MICHIGAN	US 131 MOTORSPORTS PARK INC	EEL	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	06/18/19	0	20,000	0	Funds will be used to construct a new mixed-used building in Linden, MI. The building will be approximately 12,000 sq. ft., with about 25% being occupied by Dr. Wen's Orthodontics practice. The remaining 3 vacancies will be filled with community businesses. Funds will also be used to refinance a small portion of existing equipment debt.
MICHIGAN	WAX REAL ESTATE HOLDINGS, LLC	BI	GUARANTEED 8% 3% FEE LOAN	07/15/19	2,856,000	0	0	This Rural Development investment will be used for the purchase and installation of a 92.1XV rod mounted solar PV system to help a rural small business. The privately owned business is a hotel run under the Best Western flag. This project will realize \$13,352 per year in savings and will replace 133,352 kWh (26%) per year, which is enough to offset the cost of the system. The project will be repaid in 12 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MICHIGAN	WEST COAST MANAGEMENT, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/24/19	0	20,000	0	This Rural Development investment will be used for the purchase and installation of a 16.95 kW rod mounted solar PV system to help a rural small business. While Birch Lodge is an exclusive resort that has been family owned and operated since 1938, this project will realize \$13,352 per year in savings and will replace 133,352 kWh (26%) per year, which is enough to offset the cost of the system. The project will be repaid in 13 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MICHIGAN	WHITE BIRCH LODGE, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/24/19	0	11,625	0	This Rural Development investment will be used for the purchase and installation of a 35.52 kW rod mounted solar PV system to help an Agricultural Producer. The applicant is a greenhouse and nursery that specializes in growing species native to Michigan. This project will realize \$13,352 per year in savings and will replace 133,352 kWh (26%) per year, which is enough to offset the cost of the system. The project will be repaid in 12 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MICHIGAN	WILDTYPE DESIGN NATIVE PLANTS & SEED LTD	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/29/19	0	18,296	0	This Rural Development investment will be used for the purchase and installation of a 35.52 kW rod mounted solar PV system to help an Agricultural Producer. The applicant is a greenhouse and nursery that specializes in growing species native to Michigan. This project will realize \$13,352 per year in savings and will replace 133,352 kWh (26%) per year, which is enough to offset the cost of the system. The project will be repaid in 12 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MINNESOTA	WILLIAMSTON INNOVATION, LLC	EI	MAND.ENERGY EFFICI IMPROV. GRANTS UNDER \$20,000	04/08/19	0	5,390		The Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of lighting upgrades to LED lighting, plus installing an infrared heating system at the rural real estate business. Williamson Innovation, LLC hopes to realize \$11,181 per year in savings, and will replace 39,272 kWh (58%) per year. Project payback is 4 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.
MINNESOTA	ZURKOOL, LLC	REAP	REAP-MANDATORY REVIEW ENERGY SYST GRANTS	07/17/19	0	42,418		The Rural Development investment will be used for the purchase and installation of a direct loan project to replace the existing heating system at the rural real estate business. Zurkoool, LLC will realize 86,893 kWh per year for the new building, which is enough energy to power 8 homes. The project will realize \$2,089 per year in savings, and will replace 25,980 kWh (137%) per year and realize \$2,089 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	4-DIRECTIONS DEVELOPMENT INC	RIEG	RICS ENTERPRISE NATIVE AMERICAN GRANT	06/13/19	0	191,519		The Rural Development investment will be used for the purchase and installation of a direct loan project to replace the existing heating system at the rural real estate business. 4-Directions Development Inc will realize \$13,181 per year in savings, and will replace 148,594 kWh (67%) per year, which is enough energy to power 13 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	ABARIS EC, LLC	RES	MAND. REVIEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/18/19	0	19,741		The Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of Energy Optimization Lighting System. Action Energy will realize \$13,181 per year in savings, and will replace 148,594 kWh (67%) per year, which is enough energy to power 13 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	ACTION FABRICATING, INC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	09/03/19	0	17,180		The Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of Energy Optimization Lighting System. Action Energy will realize \$13,181 per year in savings, and will replace 148,594 kWh (67%) per year, which is enough energy to power 13 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	AGRICULTURAL UTILITIES/RESEARCH	RCQD	RURAL COOPERATIVE DEVELOPMENT GRANTS	08/13/19	0	200,000		Rural Development grant funds will be used to provide technical assistance to startup and growth businesses in Minnesota.
MINNESOTA	ATKIN COUNTY GROWTH, INC.	RIEG	RICS ENTERPRISE GRANTS	07/11/19	0	90,000		Rural Development grant funds will be used to finance and/or develop small and emerging private business enterprises in rural Atkin county in Minnesota.
MINNESOTA	ALBERS, BRUCE	REAP	REAP-MANDATORY REVIEW ENERGY SYST GRANTS	07/17/19	0	8,000		The Rural Development investment will be used for the purchase and installation of a 38kW solar array. Bruce Albers is a family-owned farmer outside Goodhue Minnesota, will realize \$6,744 per year in savings, and will replace 72,659 kWh (14%) per year. This project will save \$2,089 per year in savings, and will replace 25,980 kWh (137%) per year and realize \$2,089 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	ARABLE BROTHERS COMPANY	REAP	REAP-MANDATORY REVIEW ENERGY SYST GRANTS	09/16/19	0	7,500		The Rural Development investment will be used for the purchase and installation of a 38kW solar array. Arable Brothers Company, will realize \$6,744 per year in savings, and will replace 72,659 kWh (14%) per year. This project will save enough electricity to power 6.5 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	ANDERSON, PATRICK	RES	MAND. REVIEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/26/19	0	18,515		The Rural Development investment will be used for the purchase and installation of a 38kW solar array. Anderson, Patrick, will realize \$7,352 per year in savings, and will replace 69,818 kWh (567%) per year. The project will save enough electricity to power 6.5 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MINNESOTA	BAKKE, JASON WADE	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/24/19	0	16,372		<p>This Rural Development investment will be used for the purchase and installation of a 14.64 kW solar PV array solar system. Carosai Grove, LLC is a family owned energy, colony and ranch business in rural Cass County, Minnesota. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p> <p>This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a grain dryer. Bast Farms LLC is a family farm in rural Cass County, Minnesota. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
MINNESOTA	BAST FARMS, LLC	EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	06/14/19	0	8,200		<p>This Rural Development investment will be used for the purchase and installation of a 14.64 kW solar PV array solar system. Carosai Grove, LLC is a family owned energy, colony and ranch business in rural Cass County, Minnesota. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
MINNESOTA	BATTLE LAKE CITY OF	RBEG	RBGS ENTERPRISE GRANTS	07/25/19	0	96,000		<p>Rural Development's investment will be used to replace public infrastructure to assist in a redevelopment project. It is anticipated that several businesses will benefit as a result of the project.</p>
MINNESOTA	BAUERLY, ALLEN J	RES	MAND- RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/21/19	0	19,999		<p>This Rural Development investment will be used for the purchase and installation of a 42kW ground solar array. Allen J. Bauerly is a small family farmer by Sauk Rapids, Minnesota, will realize \$9,065 per year in savings, and will replace 80,257Wh (79%) per year. This project will save enough electricity to power 6.7 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
MINNESOTA	BENESCH, TIMOTHY	RES	MAND- RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/25/19	0	5,832		<p>This Rural Development investment will be used for the purchase and installation of a 14.64 kW solar PV array solar system. Carosai Grove, LLC is a family owned energy, colony and ranch business in rural Cass County, Minnesota. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
MINNESOTA	BISSSEN, KIM	RES	MAND- RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/14/19	0	19,024		<p>This Rural Development investment will be used for the purchase and installation of a 35.02kW ground solar array. Jeff Bissen is a family owned farm in rural Barnesville, Minnesota. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
MINNESOTA	BRATON, JEFFREY	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/06/19	0	27,460		<p>This Rural Development investment will be used for the purchase and installation of a 14.64 kW solar PV array solar system. Carosai Grove, LLC is a family owned energy, colony and ranch business in rural Cass County, Minnesota. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
MINNESOTA	BROSIG, JOSEPH	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/17/19	0	10,000		<p>This Rural Development investment will be used for the purchase and installation of a 14.64 kW solar PV array solar system. Carosai Grove, LLC is a family owned energy, colony and ranch business in rural Cass County, Minnesota. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
MINNESOTA	CANOSA GROVE, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/09/19	0	9,962		<p>This Rural Development investment will be used for the purchase and installation of a 14.64 kW solar PV array solar system. Carosai Grove, LLC is a family owned energy, colony and ranch business in rural Cass County, Minnesota. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
MINNESOTA	CASS COUNTY EDC	RBEG	RBGS ENTERPRISE GRANTS	07/11/19	0	60,000		<p>Rural Development grant funds will be used to obtain technical assistance for Cass County EDC. They will provide succession planning technical assistance to private businesses in rural Todd and Cass counties in northern Minnesota.</p>

RBCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MINNESOTA	CENTRAL APPLICATORS INC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/18/19	0	16,437		<p>This Rural Development Investment will be used for the purchase and installation of a 28kW ground mounted solar system to offset current usage at their commercial location. Central Applicators Inc is a small business in Foley Minnesota. The project will replace \$2,574MWh of electricity per year in savings, and will replace 986.654MWh (\$3.87%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
MINNESOTA	COLLEGE CITY BEVERAGE INC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/05/19	0	100,000		<p>This Rural Development Investment will be used for the purchase and installation of a 38.6kW roof mounted solar system. Color-Ware Inc is a small business in Winona Minnesota. The project will replace 8,081MWh (\$4.89%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
MINNESOTA	COLOR-WARE INC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/09/19	0	20,000		<p>This Rural Development Investment will be used to make energy efficiency improvements with the purchase and installation of Energy Optimization Lighting System. Crow Wing Recycling, Inc is a small business in Brainerd Minnesota. The project will realize \$84,113 per year in savings, and will replace 79,306MWh (10%) per year. The project will make energy-efficiency improvements to their operations. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
MINNESOTA	CROW WING RECYCLING INC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	09/09/19	0	180,651		<p>This Rural Development Investment will be used to purchase a new fire truck for the City of Rush City. The new fire truck will provide dependability for the crew and residents who rely on the department for fire protection services and will ensure for the safety of volunteer fire fighters. The project will replace 1,000MWh (\$4.89%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The grant funds will provide a revolving loan fund for East Central Energy to help finance the new tanker pumpier fire truck for Rush City, East Central Energy is located in Isanti County, Minnesota.</p>
MINNESOTA	EAST CENTRAL ENERGY	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	05/22/19	0	210,000		
MINNESOTA	ENDURANCE FARMS	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/18/19	0	19,999		<p>This Rural Development Investment will be used for the purchase and installation of a 42kW ground Solar. Endurance Farms is a partnership firm in Green Isles Minnesota. The project will realize \$9,775 per year in savings, and will replace 79,306MWh (10%) per year. The project will make energy-efficiency improvements to their operations. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
MINNESOTA	EVERSMAN, DEBRA	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/14/19	0	17,469		<p>This Rural Development Investment will be used for the purchase and installation of a 42kW ground Solar. Debra Eversman is a farmer in Fairmont Minnesota. The project will realize \$7,463 per year in savings, and will replace \$0,891MWh (\$4.89%) per year. The project will save enough electricity to power 7 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
MINNESOTA	EVERSMAN, JON	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/09/19	0	17,469		<p>This Rural Development Investment will be used for the purchase and installation of a 42kW ground Solar. Jon Eversman is a farmer in Fairmont Minnesota. The project will realize \$6,040 per year in savings, and will replace 79,306MWh (10%) per year. The project will save enough electricity to power 7 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
MINNESOTA	FARMERS CO-OPERATIVE OF MINNAPKA	BI	GUARANTEED BAI 3% FEE LOAN	08/18/19	7,500,000	0		<p>The proposed B & I loan will restructure debt to reduce interest expense and match long-term financing. Farmer's Coop of Minnaska is a producer owned cooperative engaged in grain handling, marketing, storage, feed manufacturing, refined fuels and propane sales.</p>

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MINNESOTA	HANSEN, TYLER J	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/27/19	0	10,000		This Rural Development investment will be used for the purchase and installation of a 42kW ground solar system. Tyler Hansen is a family owned farmer with swine finishing barns in Minnesota, will realize \$10,420 per year in savings, and will replace 78,658kWh (52%) per year. The project will save enough electricity to power 6 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
								This Rural Development investment will be used for the purchase and installation of a 42kW solar array. Ward Hansen is installing solar array to self generated power to Tyler Hansen's farm in Minnesota, will realize \$3,438 per year in savings, and will replace 78,658kWh (70%) per year. This project will save enough electricity to power 7 homes. The purpose of this program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	HANSEN, WEIJOI	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/19/19	0	10,000		This Rural Development investment will be used for the purchase and installation of a 46kW solar array. WeiJoi Hansen is a family owned farmer with swine finishing barns in Minnesota, will realize \$10,420 per year in savings, and will replace 78,658kWh (52%) per year. The project will save enough electricity to power 6 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
								This Rural Development investment will be used for the purchase and installation of a 46kW solar array. WeiJoi Hansen is installing solar array to self generated power to Tyler Hansen's farm in Minnesota, will realize \$3,438 per year in savings, and will replace 78,658kWh (70%) per year. This project will save enough electricity to power 7 homes. The purpose of this program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	HEARTLAND CORN PRODUCTS	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/19/19	0	250,000		This Rural Development investment will be used for the purchase and installation of a 46kW solar array. Louis Hein is a small family farmer near St. Charles, Minnesota, will realize \$8,175 per year in savings, and will replace 88,126kWh (224%) per year. This project will save enough electricity to power 6 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
								This Rural Development investment will be used for the purchase and installation of a 46kW solar array. Louis Hein is a small family farmer near St. Charles, Minnesota, will realize \$8,175 per year in savings, and will replace 88,126kWh (224%) per year. This project will save enough electricity to power 6 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	HEIM, LOUIS A	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/21/19	0	18,750		This Rural Development investment will be used for the purchase and installation of a 46kW solar array. Louis Hein is a small family farmer near St. Charles, Minnesota, will realize \$8,175 per year in savings, and will replace 88,126kWh (224%) per year. This project will save enough electricity to power 6 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
								This Rural Development investment will be used for the purchase and installation of a 46kW solar array. Louis Hein is a small family farmer near St. Charles, Minnesota, will realize \$8,175 per year in savings, and will replace 88,126kWh (224%) per year. This project will save enough electricity to power 6 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	KGM ORGANICS, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/19/19	0	18,000		This Rural Development investment will be used for the purchase and installation of a 15kW ground solar system. High Power Farms LLC is a family owned farm in rural Cannon Falls, Minnesota. This project will replace 26,458kWh (79%) per year and realize \$4,069 of saving per year. The project will save enough electricity to power 5 homes. The purpose of this program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
								This Rural Development investment will be used for the purchase and installation of a 15kW ground solar system. High Power Farms LLC is a family owned farm in rural Cannon Falls, Minnesota. This project will replace 26,458kWh (79%) per year and realize \$4,069 of saving per year. The project will save enough electricity to power 5 homes. The purpose of this program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MINNESOTA	HOUDEK, WAYNE	RES	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/06/19	0	10,000		This Rural Development investment will be used for the purchase and installation of a 27.5kW solar array. Wayne Houdek is a family farmer in rural Caledonia, Minnesota, will realize \$3,709 per year in savings, and will replace 68,040kWh (100%) per year. This project will save enough electricity to power 6 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
								This Rural Development investment will be used for the purchase and installation of a 27.5kW solar array. Wayne Houdek is a family farmer in rural Caledonia, Minnesota, will realize \$3,709 per year in savings, and will replace 68,040kWh (100%) per year. This project will save enough electricity to power 6 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MINNESOTA	HUSMAN, JAMES W	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	18,750		This Rural Development investment will be used for the purchase and installation of a 46kW solar array. Louis Hein is a small family farmer near St. Charles, Minnesota, will realize \$8,175 per year in savings, and will replace 88,126kWh (224%) per year. This project will save enough electricity to power 6 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
								This Rural Development investment will be used for the purchase and installation of a 46kW solar array. Louis Hein is a small family farmer near St. Charles, Minnesota, will realize \$8,175 per year in savings, and will replace 88,126kWh (224%) per year. This project will save enough electricity to power 6 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MINNESOTA	LAKE OF THE WOODS EDA	REG	REGS ENTERPRISE GRANTS	07/22/19	0	25,000	0	This Rural Development investment will be used to obtain technical assistance for Lake of the Woods EDA. They will provide succession planning technical assistance to private businesses in rural Lake of the Woods county in Northern Minnesota.
MINNESOTA	LATINO ECONOMIC DEVELOPMENT CENTER	RCDG	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/25/19	0	200,000	0	Rural Development grant funds will provide technical assistance for rural cooperatives of 0 businesses in rural Lake of the Woods county in Northern Minnesota.
MINNESOTA	LEACH LAKE FINANCIAL SERVICES	REG	REGS ENTERPRISE NATIVE AMERICAN GRANT	06/18/19	0	136,271	0	Grant funds will be used to stabilize and grow existing businesses located on or near the 0 Leach Lake Reservation near Cass Lake, Minnesota.
MINNESOTA	LESUN LLC	BI	GUARANTEED 841 3% FEE LOAN	12/12/18	8,750,000	0	0	This Rural Development loan will be used to refinance a bridge loan to construct a 7.1 MWdc 0 Creek Power II, LLC, array in Wadena, Minnesota. Lesun, LLC is a subsidiary of Cypress
MINNESOTA	LETTUCE ABOARD, LLC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/23/19	0	49,371	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of insulation and Lighting System. Lettuce Aboard, LLC is a small business operating a grower and processor of lettuce in rural New London 8 miles northeast of LeCenter, MN. The project will replace 12,500 sq ft of existing lighting with 760,080Wh (84%) per year, which is enough energy to power 70 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their 0 operations.
MINNESOTA	LHM GREEN, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$25,000	06/19/19	0	18,000	0	This Rural Development investment will be used for the purchase and installation of a 12.5kW solar array system. LHM Green, LLC is a family owned farmer and raises cattle. The project will save enough electricity to power 6.8 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy 0 systems, and in making energy efficiency improvements to their operations.
MINNESOTA	LINDQUIST, DALE	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/16/19	0	7,875	0	This Rural Development investment will be used for the purchase and installation of a 1kW solar system. Dale Lindquist is a family owned farmer and raises cattle. This project will replace 12,613Wh (20%) per year and realize \$3,502 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to 0 their operations.
MINNESOTA	LITTIN DESIGN INC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/17/19	0	6,898	0	This Rural Development investment will be used for the purchase and installation of a 37.5kW solar array system. Karri Lohmann is a family owned farmer in rural Spring Valley Minnesota. This project will replace 99,879Wh (289%) per year and realize \$7,185 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	LOHMANN, KARRI	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/17/19	0	17,785	0	This Rural Development investment will be used for the purchase and installation of a 37.5kW solar array system. Karri Lohmann is a family owned farmer in rural Spring Valley Minnesota. This project will replace 99,879Wh (289%) per year and realize \$7,185 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	LUND, DARIN	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	09/09/19	0	45,133	0	This Rural Development investment will be used to make energy efficiency improvements to the home of Darin Lund. The project will replace 182,267Wh (1%) per year in savings, and will replace 182,267Wh (1%) per year, which is enough energy to power 15 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their 0 operations.
MINNESOTA	MATZKE, CHARLES J	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/19/19	0	19,750	0	This Rural Development investment will be used for the purchase and installation of a 37.5kW solar array system. Karri Lohmann is a family owned farmer in rural Spring Valley Minnesota. This project will replace 99,879Wh (289%) per year and realize \$7,185 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

RBCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MINNESOTA	MAURER, RICHARD	EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/26/19	0	12,000	0	This Rural Development investment will be used to make energy efficiency improvements in the home of a small business in rural Morgan Minnesota. The project will realize \$7,888 per year in savings, and will replace 182,239kWh (51%) per year, which is enough energy to power 16.8 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/25/19	0	10,000	0	This Rural Development investment will be used for the purchase and installation of a 42kW ground water heat pump system. The project will realize \$6,552 per year in savings, and will replace 12,493kWh (100%) per year, which is enough energy to power 8.5 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	MCHAMARA FARMS INC	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/19/19	0	16,500	0	This Rural Development investment will be used for the purchase and installation of a 38kW ground solar array. Mchamara Farms Inc is a farm outside Bird Island Minnesota, and the project will realize enough electricity to power 6.8 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	06/21/19	0	12,500	0	This Rural Development investment will be used for the purchase and installation of a 20kW LED lighting system. The project will realize \$6,130 per year in savings, and will replace 44,980kWh (125%) per year and realize \$6,130 of saving per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	MIDWEST PATTERN, INC	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/19/19	0	15,000	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED Lighting and boilers. Mills Manor, Inc is a nursing home in rural Minnesota, and the project will realize enough electricity to power 13 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		REAP	REAP-MAND-ENERGY EFF IMPROV GRANTS	09/06/19	0	56,700	0	This Rural Development investment will be used for the purchase and installation of a 48.8kW ground solar system. Minnesota Cold Storage LLC is a small business in rural Becker Minnesota. The project will replace 36,500kWh (26%) per year and realize \$6,552 per year in savings, and will replace 148,035kWh (87%) per year, which is enough energy to power 13 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	MINNESOTA COLD STORAGE LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/09/19	0	19,909	0	Rural Development grant funds will be used to obtain technical assistance for MN Soybean Growers Association to provide technical assistance to 6 private business in rural Blue Earth County in Minnesota.
		REEG	RBCS ENTERPRISE GRANTS	07/22/19	0	123,000	0	This Rural Development investment will be used for the purchase and installation of a 38kW ground solar array. The project will realize enough electricity to power 6.8 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	MUELLER, LOWELL	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/20/19	0	18,491	0	

RCS FY2019 Obligations

State	Borrower or Guaratee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MINNESOTA	MULLENBACH, HARVEY	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/19/19	0	18,968	0	The Rural Development investment will be used for the purchase and installation of a 38kW ground solar array. Harvey Mullenbach is a family farmer in rural Adams Minnesota, will realize \$8,802 per year in savings, and will replace 79,542kWh (1.69%) per year. This investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	MULLINS, VIRGINIA	REAP	REAP-MANDATORY/RENEW ENERGY SYST GRANTS	07/17/19	0	12,179	0	The Rural Development investment will be used for the purchase and installation of a 2.4kW solar system. Virginia Mullins is a family farmer in rural Norman Minnesota, will realize \$3,860 per year in savings, and will replace 30,033kWh (1.45%) per year and realize \$3,860 of saving per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	NELSON, BRADLEY	REAP	REAP-MANDATORY/RENEW ENERGY SYST GRANTS	07/17/19	0	12,796	0	The Rural Development investment will be used for the purchase and installation of a 30kW ground solar system. Bradley D Nelson is a family owned farmer in rural Albert Lea Minnesota. The project will replace 54,688kWh (1.28%) per year and realize \$5,375 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	NELSON, JOHN D	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/20/19	0	10,000	0	The Rural Development investment will be used for the purchase and installation of a 21kW ground solar array. John D Nelson is a family farmer in rural Norman Minnesota, will realize \$7,109kWh (1.98%) per year and realize \$5,720 of saving per year. The purpose of this investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	NEW YORK MILLS, CITY	RBEQ	RBC'S ENTERPRISE GRANTS	07/17/19	0	89,000	0	Rural Development investment will be used to establish a revolving loan fund. Funds will be used to finance and/or develop small and emerging private business enterprises in city of New York Mills Minnesota. It is anticipated that 8 jobs will be created and 3 jobs will be eliminated.
MINNESOTA	NORMAN COUNTY WESTERN CENTRAL ECON DEV ASSOC INC	RMAP	DISCRETION/ASSIST MICROENTERPRENERS	06/25/19	0	50,000	0	Rural Development grant funds will be used to finance and/or develop small and emerging business enterprises in rural Norman county in Minnesota.
MINNESOTA	NORTH COUNTRY COOP	RCDG	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/06/19	0	34,427	0	Grant funds will be used for technical assistance to support development of resident-owned home communities in rural Minnesota and throughout the Midwest.
MINNESOTA	NOVEL SOLAR FIVE LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	07/02/19	2,202,018	0	0	The Rural Development REAP loan guarantee will be used for the purchase and installation of a 1.5kW solar array. Novel Solar Five LLC is a family owned business in rural Norman Minnesota. The project will replace 3,513,200 kWh per year, which is enough electricity to power 348 homes. The system is estimated to produce 1,900,500 kWh per year, which is enough electricity to power 175 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	NOVEL SOLAR ONE LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	07/02/19	6,664,845	0	0	The Rural Development REAP loan guarantee will be used for the purchase and installation of a 1.5kW solar array. Novel Solar One LLC is a family owned business in rural Norman Minnesota. The project will replace 3,513,200 kWh per year, which is enough electricity to power 348 homes. The system is estimated to produce 1,900,500 kWh per year, which is enough electricity to power 175 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	NOVEL SOLAR THREE LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	07/02/19	6,900,000	0	0	The Rural Development REAP loan guarantee will be used for the purchase and installation of a 1.5kW solar array. Novel Solar Three LLC is a family owned business in rural Norman Minnesota. The project will replace 3,513,200 kWh per year, which is enough electricity to power 348 homes. The system is estimated to produce 1,900,500 kWh per year, which is enough electricity to power 175 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	NOVEL SOLAR TWO LLC	REAP BI	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR GUARANTEED 8M 3% FEE LOAN	09/27/19	3,000,000	0	0	The Rural Development REAP loan guarantee will be used for the purchase and installation of a 1.5kW solar array. Novel Solar Two LLC is a family owned business in rural Norman Minnesota. The project will replace 3,513,200 kWh per year, which is enough electricity to power 348 homes. The system is estimated to produce 1,900,500 kWh per year, which is enough electricity to power 175 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MINNESOTA	NOVEL SOLAR TWO, LLC	REAP	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	09/27/19	5,283,755	0	0	This Rural Development investment will be used for the purchase and installation of a 21kW ground solar system. Novel Solar Two, LLC is a family owned farmer in rural Le Sueur Minnesota. The project will replace 52,054kWh (124%) per year and realize \$5,073 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	OLSON, DANIEL	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/14/19	0	18,311	0	This Rural Development investment will be used for the purchase and installation of a 21kW ground solar system. Daniel Olson is a family owned farmer in rural Le Sueur Minnesota. The project will replace 52,054kWh (124%) per year and realize \$5,073 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	PEOPLES ENERGY COOPERATIVE EEI	REAP	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/19/19	0	15,449	0	This Rural Development investment will be used for the purchase and installation of a 21kW ground solar system. Peoples Energy Cooperative is an electric company in Ottertail Minnesota. The project will replace 52,054kWh (124%) per year and realize \$5,073 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	PETERSON, JULIE K	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/18/19	0	11,800	0	This Rural Development investment will be used for the purchase and installation of a 21kW ground solar system. Julie Peterson is a family owned farmer near New Richmond Minnesota. The project will replace 52,054kWh (124%) per year and realize \$5,073 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	ROBERTS, THOMAS W	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/09/19	0	8,150	0	This Rural Development investment will be used for the purchase and installation of a 21kW ground solar system. Thomas Roberts is a family owned farmer in rural Le Sueur Minnesota. The project will replace 52,054kWh (124%) per year and realize \$5,073 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	RURAL STORAGE SOLUTIONS LLC	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/19/19	0	19,350	0	This Rural Development investment will be used for the purchase and installation of a 21kW ground solar system. Rural Storage Solutions LLC is a new business in rural Barnesville Minnesota. The project will replace 52,054kWh (124%) per year and realize \$5,073 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	SCHAEFER FARMS INC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/17/19	0	100,442	0	This Rural Development investment will be used for the purchase and installation of a 21kW ground solar system. Schaefer Farms is a family owned farmer in rural Le Sueur Minnesota. The project will replace 52,054kWh (124%) per year and realize \$5,073 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	SCHWARZ, GREGORY	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/18/19	0	15,000	0	This Rural Development investment will be used for the purchase and installation of a 21kW ground solar system. Gregory Schwarz is a family owned farmer in rural Morrison Minnesota. The project will replace 52,054kWh (124%) per year and realize \$5,073 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	SOUTHWEST INIT FOUN	RMAP	DISCRETION-ASSIST MICROENTERPRENEURS	09/26/19	0	36,328	0	This Rural Development investment will be used for the purchase and installation of a 21kW ground solar system. Southwest Initiative is a family owned farmer in rural Morrison Minnesota. The project will replace 52,054kWh (124%) per year and realize \$5,073 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	SPINLER, BRAD	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/20/19	0	10,944	0	This Rural Development investment will be used for the purchase and installation of a 21kW ground solar system. Brad Spinler is a family owned farmer in rural Morrison Minnesota. The project will replace 52,054kWh (124%) per year and realize \$5,073 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

RBKS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MINNESOTA	SPONBERG, DAVID	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	10,000		<p>This Rural Development investment will be used for the purchase and installation of a 50kW solar array. David Sponberg is a family owned farmer in New Richmond, Minnesota. This project will realize \$8,762 per year in savings, and will replace 101,405kWh (119%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p> <p>This Rural Development investment will be used for the purchase and installation of a 24kW ground-mounted solar array. David Sponberg is a family owned farmer in New Richmond, Minnesota. This project will realize \$3,500 per year in savings, and will replace 33,500kWh (9%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
MINNESOTA	STARK WINES, LLC DBA NORTH FOLK WINERY	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/13/19	0	15,300		<p>This Rural Development investment will be used for the purchase and installation of a 20.4kW roof solar system. The Kerkhoven Banner is a locally owned small winemaker in Minneapolis, Minnesota. This project will realize \$2,842 per year in savings, and will replace 30,720kWh (98%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
MINNESOTA	THE KERKHOVEN BANNER	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/24/19	0	15,330		<p>This Rural Development investment will be used for the purchase and installation of a 120kW Wind Turbine. Christopher Wayne Thomas, a small rural business, will realize \$9,234 per year in savings, and will replace 307,020kWh (98%) per year. This project will realize \$2,842 per year in savings, and will replace 30,720kWh (98%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
MINNESOTA	THOMAS, CHRISTOPHER WAYNE	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/25/19	0	15,947		<p>This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a 10kW solar array. Christopher Wayne Thomas is a small business in Kolstad, Minnesota. This project will realize \$2,807 per year in savings, and will replace 64,759 (15%) per year, which is enough energy to power 6 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
MINNESOTA	TONY'S MARKET INC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	09/05/19	0	6,358		<p>This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a grain dryer. Traynor Farms, LLC is a small family farm in Minneapolis, Minnesota. This project will realize \$5,644 per year in savings, and will replace 644,328kWh (41%) per year, which is enough energy to power 59 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
MINNESOTA	TRAYNOR FARMS LLC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/17/19	0	26,250		<p>This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a grain dryer. Triple C Feeders is an Ag Producer farm in Minneapolis, Minnesota. This project will realize \$18,525kWh (50%) per year, which is enough energy to power 16 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
MINNESOTA	TRIPLE C FEEDERS LLC	EEl	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	04/05/19	0	12,500		<p>This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a grain dryer. Bruce A. Turner is a small family farm in rural Stewardsville, Minnesota. This project will realize \$5,644 per year in savings, and will replace 644,328kWh (41%) per year, which is enough energy to power 59 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
MINNESOTA	TURNER, BRUCE A	EEl	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	04/08/19	0	6,800		<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to develop renewable energy opportunities.</p>
MINNESOTA	UNIVERSITY OF MN	REAR	RENEWABLE ENERGY DEVL P ASSISTANCE GRANTS	03/29/19	0	100,000		

RBCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MINNESOTA	VANDELORESSCHE BROS. LLC	EEL	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	06/19/19	0	17,500	0	This Rural Development investment will be used to make energy efficiency improvements to the home of a family owned farmer in rural Marshall Minnesota. The project will replace 155,134kWh (71%) per year, which is enough energy to power 14 homes. The project will also install a 2.1kW solar array and a 6.5 MWdc ground solar system, and in making energy efficiency improvements to their operations.
MINNESOTA	WALKER, ROGER H	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	07/22/19	0	12,029	0	This Rural Development investment will be used for the purchase and installation of a 2.1kW solar array and a 6.5 MWdc ground solar system, and in making energy efficiency improvements to their operations. The project will replace 42,133kWh (124%) per year and realize \$6,500 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	WALSH, BARRY	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/10/19	0	15,000	0	This Rural Development investment will be used for the purchase and installation of a 40kW solar array and a 6.5 MWdc ground solar system, and in making energy efficiency improvements to their operations. The project will replace 70,433kWh (100%) per year, which is enough energy to power 6 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	WIEBKE FUR CO. INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/19/19	0	18,750	0	This Rural Development investment will be used for the purchase and installation of a 50kW solar array. Wilson and Wilson Family Farm LLC is a family farm in rural Preston Minnesota. The project will replace 86,214 kWh (124%) per year in savings, and will replace 155,134kWh (71%) per year, which is enough energy to power 14 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	WILSON & WILSON FAMILY FARM, MINNESOTA, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/19/19	0	20,000	0	This Rural Development investment will be used for the purchase and installation of a 50kW solar array. Wilson and Wilson Family Farm LLC is a family farm in rural Preston Minnesota. The project will replace 86,214 kWh (124%) per year in savings, and will replace 155,134kWh (71%) per year, which is enough energy to power 14 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	WILSON, EVAN	EEL	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	04/10/19	0	11,000	0	This Rural Development investment will be used for the purchase and installation of a 2.1kW solar array and a 6.5 MWdc ground solar system, and in making energy efficiency improvements to their operations. The project will replace 42,133kWh (124%) per year and realize \$6,500 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	WOESTENHOFF, KRISTA	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/27/19	0	14,000	0	This Rural Development investment will be used for the purchase and installation of a 2.1kW solar array and a 6.5 MWdc ground solar system, and in making energy efficiency improvements to their operations. The project will replace 42,133kWh (124%) per year and realize \$6,500 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
MINNESOTA	WRIGHTSIN, LLC	BI	GUARANTEED 8M 3% FEE LOAN	12/12/18	8,200,000	0	0	This Rural Development loan will be used to refinance a bridge loan to construct a 6.5 MWdc ground solar array in St. Michael, Minnesota. Wrightsin is a subsidiary of Cypress Creek Power II, LLC.
MINNESOTA	ZANTO, KEITH	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/20/19	0	18,750	0	This Rural Development investment will be used for the purchase and installation of a 2.1kW solar array. Keith Zanto is a family farm in rural St. Charles Minnesota. The project will replace 86,214 kWh (124%) per year in savings, and will replace 155,134kWh (71%) per year, which is enough energy to power 14 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

RBCS FY2019 Obligations

Borrower or Grantee	Program	Program Description	Date Origined	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MINNESOTA, ZWEEB FARMS, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/11/19	0	16,250	0	The Rural Development investment will be used for the purchase and installation of a 77.3kW solar panel system located at 2773 Hwy 84 West in Boonville, MN. The project will replace 31.85kWh (% per year) and realize \$4,558 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and small businesses in adopting renewable energy systems, and in raising energy efficiency improvements to their operations.
Big H Directional Drilling, Inc.	RES	MAND. RENEW ENRGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	6,733	0	The Rural Development investment will be used for the purchase and installation of a small solar pv system. Big H Directional Drilling, Inc. is a small oil field and management consulting business located at 2580 Hwy 84 West in Boonville, MS. Project funds will be used to install a 10kW solar panel system located at 2580 Hwy 84 West in Boonville, MS to the roof of the office's facility. This project will replace \$951 of energy a year. Additionally, this project will potentially produce 10,000wh of energy annually, replacing 5.1% of the household's electricity needs. The project will also reduce annual electricity consumption by about 12 month energy consumption, which is enough electricity to power 36 60 watt light bulbs.
MISSISSIPPI BMW FARMS INC	EEO	MAND ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/11/19	0	20,000	0	This rural Development investment will be used to install brooder, bellies, fans & etc to the poultry farmer BMW Farms, Inc (female owned); 238 County Road 273, Bay Springs, MS 39320. The project will provide technical assistance to the borrower to help them develop a plan for broiler grower houses resulting in net annual energy savings. The projected annual energy savings is 26,965 kwh. This project is located in a persistent poverty area. There will be no job creation or retained. Estimated payback period is 15 years. The purchase and installation of energy efficiency improvements to 8 poultry houses. Branch Poultry is located at 69 Branch Rd in Fowtown, MS. Project funds will be used to make energy efficiency improvement with the installation of fans, foam board on walls, and replacing brooders on the poultry houses.
MISSISSIPPI BRANCH POULTRY FARM, INC.	REAP	REAP-MAID ENERGY EFF IMPROY GRANTS	05/17/19	0	67,215	0	The Rural Development investment will be used for the purchase and installation of LED lighting options. The Chumcraft Revington Douglas location in Sardis is where the manufacturing, warehouse and distribution operations take place. Project funds will be used to install LED lighting throughout the building. The project will replace 10,000 kWh of energy annually. This project will realize \$91,543 per year in savings. Additionally, this project will save 1248,328 kwht of electricity per year (82%) which is enough electricity to power 115 homes.
CHROMCRAFT REIVINGTON MISSISSIPPI LTD.	REAP	REAP-MAID ENERGY EFF IMPROY GRANTS	05/17/19	0	69,812	0	The Rural Development investment will be used for the purchase and installation of LED lighting options. The Chumcraft Revington Douglas location in Sardis is where the manufacturing, warehouse and distribution operations take place. Project funds will be used to install LED lighting throughout the building. The project will replace 10,000 kWh of energy annually. This project will realize \$91,543 per year in savings. Additionally, this project will save 1248,328 kwht of electricity per year (82%) which is enough electricity to power 115 homes.
MISSISSIPPI CITY OF SARDIS	RREG	RICS ENTERPRISE GRANTS	07/25/19	0	164,202	0	Congressman Bennie Thompson Senator Roger Wicker Senator Clyde Smith
MISSISSIPPI CLARKSDALE CITY OF	RREG	RICS ENTERPRISE GRANTS	07/25/19	0	53,798	0	Representative Bennie Thompson Senator Roger Wicker Senator Clyde Smith
MISSISSIPPI COMMUNITIES UNLIMITED,INC	RREG	RICS ENTERPRISE GRANTS	07/25/19	0	75,000	0	The Rural Development investment will be used to provide customized technical assistance to the community development organization of rural businesses in St. Louis Mississippi counties, 44 of which are Persistent Poverty.
MISSISSIPPI DELTA HEALTH ALLIANCE, INC.	DJHT	PERSISTENT POVERTY DELTA HEALTH CARE GRANT	05/24/19	0	861,997	0	The Rural Development investment will be used to assist the Delta Opoid Taskforce (DOT) in providing services for opioid abuse in eight rural counties of the Mississippi Delta Region: Coahoma, Humphreys, Itasca, Shelby, Sunflower, Warren and Washington).
MISSISSIPPI DELTA HEALTH ALLIANCE, INC.	DJHT	DELTA HEALTH CARE SERVICES GRANT	05/24/19	0	137,336	0	The Rural Development investment will be to assist the Delta Opoid Taskforce (DOT) in providing services for opioid abuse in eight rural counties of the Mississippi Delta Region: Coahoma, Humphreys, Itasca, Shelby, Sunflower, Warren and Washington).
MISSISSIPPI DELTA REGIONAL AUTH	RBOG	DELTA REGIONAL AUTHORITY GRANTS - NON	02/11/19	0	1,321,242	0	The Rural Development investment will be used for technical assistance to 292 Mississippi counties, 100 of which are Persistent Poverty. District 1: Atchafalaya, Calhoun, Carroll, Choctaw, De Kalb, Franklin, Harrison, Jefferson, Jones, Lincoln, Madison, Monroe, Pearl River, Pontchartrain, Rankin, Scott, Tallahatche, Tarrant, Warren, Wilcox, Yazoo District 2: Harper District District 3 and Palacios District 4. Delta Regional Authority (DRA) will bring rural community advancement programs to non persistent poverty areas through grants. The project will provide technical assistance to 292 Mississippi counties, 100 of which are Persistent Poverty. MS 386 H. County Coahoma, 0.665-48-49-5212 and county address shokan@dra.com

RBCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MISSISSIPPI	KASED BROS. HALLAL MEAT, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/17/19	0	25,321	0	The Rural Development investment will be used for the purchase and installation of a solar photovoltaic system for Kased Bros. Hallal Meat, Inc. in Natchez, MS. Project funds will be used for the purchase and installation of a Large PV solar system. This project will realize \$6,828 per year in savings. Additionally, this project will reduce 56,907 lbs of CO2 emissions per year. The project will also provide for the purchase of the solar equipment and the installation of the solar equipment. The purpose of this funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MISSISSIPPI	MAGNOLIA METAL AND PLASTIC PRODUCTS INC	EEl	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/04/19	0	6,181	0	The Rural Development investment will be used to install LED lighting upgrades for the production areas, storage areas, and offices of the plant. The LED fixtures will be replacing old, inefficient metal halide and fluorescent lighting at Magnolia Metal and Plastic Products, Inc. in Natchez, MS. This project will realize \$1,181 per year in savings. The purpose of this funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will assist in installing boiler traps to eight chicken broiler houses at Mr. Dennis E. McClellon 1094 Trinity Farm Lane, Magnolia, MS 39052-3800 901-551-0005 3n farms@wildblue.net. Congressional District 03 Harper. The project will realize \$1,181 per year in savings. The purpose of this funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will provide technical assistance to a total of 12 different cooperatives/groups. The grant period January 1, 2020 to December 30, 2020.
MISSISSIPPI	MCCLELLON, TRINA B	REAP	REAP-MAND-ENERGY EFF IMPROV GRANTS	07/26/19	0	20,000	0	Rural development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This project will assist in installing boiler traps to eight chicken broiler houses at Mr. Dennis E. McClellon 1094 Trinity Farm Lane, Magnolia, MS 39052-3800 901-551-0005 3n farms@wildblue.net. Congressional District 03 Harper. The project will realize \$1,181 per year in savings. The purpose of this funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will provide technical assistance to a total of 12 different cooperatives/groups. The grant period January 1, 2020 to December 30, 2020.
MISSISSIPPI	MS ASSOC OF COOPERATIVES	SSDPG	PERSISTENT POVERTY GRANTS TO ASSIST MINORITY PRODUCERS	06/25/19	0	175,000	0	The Rural Development grant will be used with technical assistance to provide education through workshops/presentations, establish and/or strengthen new cooperative businesses and help establish links with national and regional development partners to advance use of renewable energy systems. The project will assist in installing boiler traps to eight chicken broiler houses at Mr. Dennis E. McClellon 1094 Trinity Farm Lane, Magnolia, MS 39052-3800 901-551-0005 3n farms@wildblue.net. Congressional District 03 Harper. The project will realize \$1,181 per year in savings. The purpose of this funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will provide technical assistance to a total of 12 different cooperatives/groups. The grant period January 1, 2020 to December 30, 2020.
MISSISSIPPI	MS ASSOC OF COOPERATIVES	RCDG	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/25/19	0	81,708	0	The Rural Development grant will be used with technical assistance to provide education through workshops/presentations, establish and/or strengthen new cooperative businesses and help establish links with national and regional development partners to advance use of renewable energy systems. The project will assist in installing boiler traps to eight chicken broiler houses at Mr. Dennis E. McClellon 1094 Trinity Farm Lane, Magnolia, MS 39052-3800 901-551-0005 3n farms@wildblue.net. Congressional District 03 Harper. The project will realize \$1,181 per year in savings. The purpose of this funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will provide technical assistance to a total of 12 different cooperatives/groups. The grant period January 1, 2020 to December 30, 2020.
MISSISSIPPI	NATCHEZ, INC	RBCG	RBCS ENTERPRISE GRANTS	07/25/19	0	60,000	0	Rural development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This project will assist in installing boiler traps to eight chicken broiler houses at Mr. Dennis E. McClellon 1094 Trinity Farm Lane, Magnolia, MS 39052-3800 901-551-0005 3n farms@wildblue.net. Congressional District 03 Harper. The project will realize \$1,181 per year in savings. The purpose of this funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will provide technical assistance to a total of 12 different cooperatives/groups. The grant period January 1, 2020 to December 30, 2020.
MISSISSIPPI	DEVELOPMENT D	RBCG	RBCS ENTERPRISE GRANTS	07/26/19	0	240,000	0	The Rural Development grant will be used with technical assistance to provide education through workshops/presentations, establish and/or strengthen new cooperative businesses and help establish links with national and regional development partners to advance use of renewable energy systems. The project will assist in installing boiler traps to eight chicken broiler houses at Mr. Dennis E. McClellon 1094 Trinity Farm Lane, Magnolia, MS 39052-3800 901-551-0005 3n farms@wildblue.net. Congressional District 03 Harper. The project will realize \$1,181 per year in savings. The purpose of this funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will provide technical assistance to a total of 12 different cooperatives/groups. The grant period January 1, 2020 to December 30, 2020.
MISSISSIPPI	PHILLIPS, PERRY WAYNE	REAP	REAP-MAND-ENERGY EFF IMPROV GRANTS	06/24/19	0	6,675	0	The Rural Development investment will be used for the purchase and installation of LED lighting upgrades. Rex Lumber, Brookhaven, LLC, as a lumber mill located at 810 W.L. Highway 1925, Brookhaven, MS 39042, 601-947-5181. Congressional District 03 Harper. The project will realize \$1,181 per year in savings. The purpose of this funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will provide technical assistance to a total of 12 different cooperatives/groups. The grant period January 1, 2020 to December 30, 2020.
MISSISSIPPI	REX LUMBER, BROOKHAVEN, LLC	REAP	REAP-MAND-ENERGY EFF IMPROV GRANTS	05/09/19	0	68,012	0	The Rural Development investment will be used for the purchase and installation of LED lighting upgrades. Rex Lumber, Brookhaven, LLC, as a lumber mill located at 810 W.L. Highway 1925, Brookhaven, MS 39042, 601-947-5181. Congressional District 03 Harper. The project will realize \$1,181 per year in savings. The purpose of this funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will provide technical assistance to a total of 12 different cooperatives/groups. The grant period January 1, 2020 to December 30, 2020.
MISSISSIPPI	SCENC RIVERS DEVELOPMENT ALLIANCE	RBCG	RBCS ENTERPRISE GRANTS	07/24/19	0	99,800	0	The Rural Development investment will be used for the purchase and installation of LED lighting upgrades. Rex Lumber, Brookhaven, LLC, as a lumber mill located at 810 W.L. Highway 1925, Brookhaven, MS 39042, 601-947-5181. Congressional District 03 Harper. The project will realize \$1,181 per year in savings. The purpose of this funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will provide technical assistance to a total of 12 different cooperatives/groups. The grant period January 1, 2020 to December 30, 2020.
MISSISSIPPI	SINGING RIVER EPA SN PROPERTIES FUNDING VI	REDLG	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	02/05/19	0	0	2,000,000	The Rural Development investment will be used for the purchase and installation of LED lighting upgrades. Rex Lumber, Brookhaven, LLC, as a lumber mill located at 810 W.L. Highway 1925, Brookhaven, MS 39042, 601-947-5181. Congressional District 03 Harper. The project will realize \$1,181 per year in savings. The purpose of this funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will provide technical assistance to a total of 12 different cooperatives/groups. The grant period January 1, 2020 to December 30, 2020.
MISSISSIPPI	GREENVILLE LLC	BI	GUARANTEED 8M 3% FEE LOAN	09/10/19	4,575,000	0	0	The Rural Development investment will be used for the purchase and installation of LED lighting upgrades. Rex Lumber, Brookhaven, LLC, as a lumber mill located at 810 W.L. Highway 1925, Brookhaven, MS 39042, 601-947-5181. Congressional District 03 Harper. The project will realize \$1,181 per year in savings. The purpose of this funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will provide technical assistance to a total of 12 different cooperatives/groups. The grant period January 1, 2020 to December 30, 2020.
MISSISSIPPI	SULLIVAN REALTY LLC	BI	GUARANTEED 8M 3% FEE LOAN	05/28/19	3,281,137	0	0	The Rural Development investment will be used for the purchase and installation of LED lighting upgrades. Rex Lumber, Brookhaven, LLC, as a lumber mill located at 810 W.L. Highway 1925, Brookhaven, MS 39042, 601-947-5181. Congressional District 03 Harper. The project will realize \$1,181 per year in savings. The purpose of this funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will provide technical assistance to a total of 12 different cooperatives/groups. The grant period January 1, 2020 to December 30, 2020.

RBCS FY2019 Obligations

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RBKS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MISSOURI	AVA CITIZENS ACTION LEAGUE	REG	RBKS ENTERPRISE GRANTS	07/25/19	0	5,500		This Rural Development investment will be used to assist the Ava Citizen's Action League to purchase a bucket truck. This will assist the local area businesses in updating their store front appearances at a very minimal cost to the business owner. This will be helpful to all 0 local business owners in this designated Stike Force County.
MISSOURI	B-BUILT MFG. LLC	RES	MAND. RENEW ENERFY SYSTEMS GRANTS UNDER \$20,000	04/16/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a 79.2 kW solar array for this agriculture machinery manufacturing business in Jefferson City, Mo. This project will save \$1,700 annually, replacing 114,488 kWh (65%) of electricity per year, realizing \$16,601 in savings annually. The purpose of this funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy-efficiency improvements to their operations. Total project cost \$16,601, \$12,378 borrower contribution.
MISSOURI	BARMABAS ASSISTED LIVING OF MISSOURI LLC	BI	GUARANTEED BA 3% FEE LOAN	03/25/19	1,707,000	0	0	This Rural Development loan guarantee investment will be used to assist in debt refinancing for an existing licensed assisted living facility. The refinancing/debt restructuring will free up cash flow for the facility and will allow the business to expand and improve the facility. The business is planning on expanding the assisted living facility to increase the number of beds in the facility. The business has been in operation since June 2013. This will create 3 new 0 jobs and save 11 jobs for this business, which is located in a designated Stike Force County.
MISSOURI	BARRY ELECTRIC COOPERATIVE	REDG	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	05/19/19	0	0	250,000	This Rural Development loan investment will be used to make building improvements to WinTech's current vacant building. The improvements will assist Win Tech in expanding their company. This project will save 20 jobs and create 30 new jobs. Win Tech's building is located in the town of Harrison, Mo. The project will create 30 new jobs and save 20 jobs. Total project cost \$400,000. 10 years at .25%.
MISSOURI	ED BRANSON VICTORIAN LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/05/19	0	40,500		This Rural Development investment will be based for the purchase and installation of a \$5,14 kW solar array. Mr. Kent Reed has owned Branson Victorian an area body shop since 2013 and is located in Lockwood, Mo. This project will realize \$3,742 in savings annually, replacing 30,179 kWh (100%) of electricity per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing energy systems, and in making energy-efficiency improvements to their operations. Total project cost \$57,855, \$43,399 borrower contribution. Special Initiative - Stike Force 0 Area, Rural Poverty Target Strategy, Medically Underserved Area, Outmigration
MISSOURI	BEAN OF MOBERLY, LLC	RES	MAND. RENEW ENERFY SYSTEMS GRANTS UNDER \$20,000	06/14/19	0	4,125		This Rural Development investment will be based for the purchase and installation of a 27.06 kW solar array. Mr. Kent Reed has owned Branson Victorian an area body shop since 2013 and is located in Lockwood, Mo. This project will realize \$3,742 in savings annually, replacing 30,179 kWh (100%) of electricity per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing energy systems, and in making energy-efficiency improvements to their operations. Total eligible project cost \$57,855, \$43,399 borrower contribution. Special Initiative - Stike Force 0 Area, Rural Poverty Target Strategy, Medically Underserved Area, Outmigration
MISSOURI	BEARD, MARK	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/10/19	0	14,466		

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RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MISSOURI	CHAMPION PRECAST, INC.	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	09/09/19	0	0	20,010	<p>This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting throughout the manufacturing facility in Troy, Mo. Champion Precast is an existing business that manufactures precast concrete products for highway bridges. The project will replace 1,150 incandescent lights with LED products (11,704 kWh (85%)) which will save enough electricity per year 10,000 kWh. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Total project cost \$20,010.</p> <p>This Rural Development investment will be used for the purchase and installation of 3 separate solar array systems (23 kW, 35 kW, 150 kW) for this precast concrete manufacturing business in Troy, Mo. This project will realize \$24,832 per year in savings. The investment will be used to purchase solar panels and inverters and will cost \$23,000. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Total project cost \$31,626 (\$21,626 borrower contribution).</p>
MISSOURI	CHAMPION PRECAST, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/02/19	0	0	50,000	<p>This Rural Development investment will be used for the purchase and installation of a 35.37 kW solar array. Stephen M. Chapman, owner of Chapman Logging and Shovel located in Troy, Mo. has been growing a market that has been growing for the company over the past five years. The company has been serving the agricultural community since 1954. They are a provider of product, feed, fertilizer, and general farm merchandise in the community around them.</p>
MISSOURI	CHAPMAN, STEPHEN M	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/27/19	0	0	20,000	<p>This Rural Development grant investment will be used to expand and renovate Buchheit, Inc.'s three business locations: Beale, Dudley, and Morehouse, MO. The funds will allow the company to purchase and install solar panels and inverters and will cost \$20,000. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations. Total project cost \$20,000.</p>
MISSOURI	CITIZENS ELECTRIC CORPORATION	REDLG	PR-RED-ELECTRIC REDL - FINANCING (ELECTRIC) - LOAN	09/03/19	0	0	2,000,000	<p>This Rural Development grant investment will be used to purchase concrete, pavilion materials and a sign which will all be used as a Farmers Market. The city of Bertrand is a small town in the heart of the Missouri Ozarks. The city has a rich history and a beautiful view of the Ozark Mountains. The city is located on the south side of the Missouri River. The city is a popular destination for tourists and locals alike. The city is a beautiful town with a rich history and a beautiful view of the Ozark Mountains. The city is a popular destination for tourists and locals alike. The city is a beautiful town with a rich history and a beautiful view of the Ozark Mountains. The city is a popular destination for tourists and locals alike.</p>
MISSOURI	CITY OF BERTRAND	REBG	RESTATEUT POVERTY RBGS BUSINESS ENTERPRISE GRANT	06/09/19	0	0	14,500	<p>This Rural Development grant investment will be used to build two multipurpose pavilions on city property. Each pavilion will be 12 feet in width, 50 feet in length, and 8-9 feet high from base to eaving. This project will centralize Scott City's gathering area, which is the local business and community center. The pavilions will provide shelter against rain and the sun and provide a clean, organized environment for local farmers and other individuals with smaller gardens to sell vegetables, fruits and other consumables.</p>
MISSOURI	CITY OF SCOTT CITY	REBG	RBGS ENTERPRISE GRANTS	09/09/19	0	0	17,355	<p>This Rural Development investment will be used for the purchase and installation of a 62.16 kW solar array for this swine production business in Princeton, Mo. This project will realize \$30,085 per year in savings, and will replace 89,252 kWh (75%) per year which is enough to power the business. The project will be used to purchase solar panels and inverters and will cost \$20,000. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Total project cost \$106,915; 0 RBGS is borrower contribution. Special initiatives - locally Underserved Area</p>
MISSOURI	CJ PORK, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/04/19	0	0	20,000	

RBKS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MISSOURI	CLEAVER DERMATOLOGY, P.C.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/06/19	0	35,000		This Rural Development investment will be used for the purchase and installation of a 71.8 kW solar array. Ideagrowmed in Kirksville, Mo., Cleaver Dermatology, P.C. has provided dermatologic care to northern Missouri and Southern Iowa since 1986. This project will realize \$11.316 in savings annually, replacing 102,881 kWh (70% of electricity per year, which is enough to power 10 homes) and will save over \$1,000 per year. The project will assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total eligible contribution - \$35,000. Special initiatives- Rural Poverty Target Strategy, Opportunity Zone
				07/25/19	0	73,500		This Rural Development grant investment will be used to expand the Agriculture Program Equipment Expansion at the Richwood Valley Campus which serves the Christian Court community. The investment will provide state of the art training equipment for approximately 143 students annually.
	COMMUNITY FOUNDATION OF NW MISSOURI	RBEQ	RBKS ENTERPRISE GRANTS	07/20/19	0	32,000		This Rural Business Development investment will be used to offer business opportunities specifically to rural county partners: Grinnell, Oregon, Linn, and Newton Counties. The investment will be used to begin development of a business incubator. The Rural Business Development Grant will allow the organization to bring several private data sets and expertise on how to find information that supports economic development and business growth. The investment will provide an applicant contribution of \$40,000 and Rural 0 Business Development Grant of \$39,270.
				09/04/19	0	0	1,000,000	Rural Development funds will be used by the Community Foundation of Northwest Missouri to fund the creation of a business incubator in Northwest Missouri. The projects assisted with the loan fund are expected to result in the creation of 20 jobs and create/in an additional 30 jobs. Total project costs- \$1,250,000, borrower contribution- 250,000. Special initiatives- Rural Poverty / Target Strategy / Entrepreneur, Opportunity, Underserved Areas
	COMMUNITY FOUNDATION OF NW MISSOURI	IRP	INTERMEDIARY RELENDING PROGRAM	09/04/19	0	0	1,000,000	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting throughout the facility. Computech Manufacturing Company is an existing business that provides expense-based manufacturing services to a variety of customers. The investment will be used to realize \$27,869 per year in savings, and will replace 306,248 kWh (58% per year), which is enough electricity to power 28 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Total project costs - \$53,428; 0 borrower contribution - \$40,071. Special initiatives- Medically Underserved Area
				04/16/19	0	13,357		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting throughout the facility. Computech Manufacturing Company is an existing business that provides expense-based manufacturing services to a variety of customers. The investment will be used to realize \$27,869 per year in savings, and will replace 306,248 kWh (58% per year), which is enough electricity to power 28 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Total project costs - \$53,428; 0 borrower contribution - \$40,071. Special initiatives- Medically Underserved Area
	COOLEY FARMS OF WINDSOR, LLC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/02/19	0	49,973		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of 12 poultry houses. Cooley Farms of Windsor, LLC, owned by David E. Cooley, is a family farm that is a chicken breeder/layer operation in Windsor, Mo. The investment will be used to replace 31,600 kWh (100% per year), which is enough electricity to power 23 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Total eligible contribution - \$49,973. Special initiatives- State Force Area, Opportunity Zone
				06/14/19	0	8,312		This Rural Development investment will be used for the purchase and installation of a 21.45 kW solar array. The investment will be used to replace 31,600 kWh (100% per year). The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Total eligible contribution - \$49,973. Special initiatives- Rural Poverty Targeting Strategy
	DAKE & DAKE, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/14/19	0	8,312		This Rural Development investment will be used for the purchase and installation of a 21.45 kW solar array. The investment will be used to replace 31,600 kWh (100% per year). The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Total eligible contribution - \$49,973. Special initiatives- Rural Poverty Targeting Strategy
				06/14/19	0	8,312		This Rural Development investment will be used for the purchase and installation of a 21.45 kW solar array. The investment will be used to replace 31,600 kWh (100% per year). The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Total eligible contribution - \$49,973. Special initiatives- Rural Poverty Targeting Strategy

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MISSOURI	DANIEL HOG FARM LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/16/19	0	20,000	0	<p>This Rural Development investment will be used for the purchase and installation of a 52 kW solar array for this farmstead home business in Portageville, Mo. The project will realize \$8,693 per year in savings, and will replace 75,400 kWh (68%) per year which is enough electricity to power 6 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Total project cost \$85,385; \$65,385 borrower contribution. Special initiatives - Medically Underserved Area, Opportunity Zone.</p>
MISSOURI	DELISEE FUNERAL HOME, INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/14/19	0	18,350	0	<p>This Rural Development investment will be used for the purchase and installation of a 50 kW solar array for this funeral home business in Portageville, Mo. This project will realize \$8,693 per year in savings, and will replace 71,311 kWh (100%) per year which is enough electricity to power 6 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Total project cost \$75,000; \$56,250 borrower contribution. Special initiatives - Persistent Poverty County, Opportunity Zone, Rural Poverty Target Strategy, State Food Aid, Medically Underserved Area, Opportunity Zone.</p>
MISSOURI	DELONGS, INCORPORATED	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/17/19	0	45,204	0	<p>This Rural Development investment will be used to purchase a 99.99 kW solar array. DeLong's Incorporated has been producing architectural and structural metal products in the Green Castle, Mo. This project will realize \$3,627 per year in savings, and will replace 30,518 kWh (67%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Total project cost \$150,181; \$60,701 borrower contribution \$150,181.</p>
MISSOURI	DEVAULT VETERINARY SERVICES, LLC	EEl	MAND. ENERGY EFFICI IMPROV GRANTS UNDER \$20,000	04/16/19	0	1,542	0	<p>This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting throughout this animal hospital in Mexico, Mo. This project will realize \$3,627 per year in savings, and will replace 30,518 kWh (67%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Total project cost \$79,754; \$59,816 borrower contribution. Special initiatives - Opportunity Zone, Opportunity Zone.</p>
MISSOURI	DEVAULT VETERINARY SERVICES, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/03/19	0	19,838	0	<p>This Rural Development investment will be used for the purchase and installation of a 45.5 kW solar array on the recipient's swine confinement facility in Green Castle, Mo. This project will realize \$3,684 per year in savings, and will replace 68,250 kWh (70%) per year, which is enough electricity to power 9 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Total project cost \$83,690; \$63,690 borrower contribution. Special initiatives - Opportunity Zone, Opportunity Zone.</p>
MISSOURI	DICKEL FARMS LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/17/19	0	20,000	0	<p>This Rural Development investment will be used for the purchase and installation of a 80 kW solar array system for this commercial warehouse facility in St. Clair, Mo. This project will realize \$8,694 per year in savings, and will replace 75,400 kWh (68%) per year which is enough electricity to power 6 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Total project cost \$118,956; \$88,956 borrower contribution.</p>
MISSOURI	DICHAUS, MARK L	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/14/19	0	20,000	0	

RBKS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MISSOURI	GOODEN, DARRELL	RES	MAND. RENEW ENERFY SYSTEMS GRANTS UNDER \$20,000	06/18/19	0	0	20,000	This Rural Development investment will be used for the purchase and installation of a 48.75 kW solar array for the Gooden family in Boone County, MO. The project will generate enough energy to power 6 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total project cost \$87,287. 0 Contingency
MISSOURI	GRAND RIVER WELDING INSTITUTE, LLC	BI	GUARANTEED BA 3% FEEL LOAN	08/19/19	128,000	0	0	This Rural Development loan guarantee investment will be used to assist the borrower with that estate improvements consisting of the welding institute in the central Missouri community of Brookfield. This welding school provides specialized schooling and hands-on education for welding stainless steel, carbon pipe, and food grade projects. This project will create 10 jobs in Boone County, MO. 0 Contingency
MISSOURI	GRANT OLSON DDS PC, ET AL	BI	GUARANTEED BA 3% FEEL LOAN	05/02/19	10,000,000	0	0	This Rural Development investment will be used for the refinance of an interim loan to purchase the land and construction of a new dental facility in Ozark, MO with 10 newly equipped pods for dental and orthodontic procedures. The borrower will continue operating the facility and will create 10 jobs in Boone County, MO. The project will create 10 jobs and save 30 jobs in Boone County, MO.
MISSOURI	GRASSLAND BEEF, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/17/19	0	103,866	0	This Rural Development investment will be used for the purchase and installation of a 201.6 kW solar array for the Grassland Beef, LLC in Boone County, MO. The project will generate enough energy to power 26 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total project cost \$410,220. \$311,419 borrower contribution. Special initiatives - Contingency
MISSOURI	HAILE VALLEY LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/10/19	0	20,000	0	This Rural Development investment will be used for the purchase and installation of a 20.9 kW solar array for the Haile Valley LLC in Boone County, MO. The project will generate enough energy to power 2 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total project cost \$58,286. \$78,286 borrower contribution.
MISSOURI	HD GRAPHICS & APPAREL, LLC	BI	GUARANTEED BA 3% FEEL LOAN	09/18/19	218,000	0	0	This Rural Development loan guarantee investment will be used to purchase the Dwyer House, a screen-printing business located in Odessa, Mo. Purchase price is \$260,000. guarantee area and costs are \$10,000. Applicant's equity injection is \$52,000. The project will create 2 jobs in rural Lafayette County. Actual is Central farm of 0 Warrensburg.
MISSOURI	HEARTLAND PORT AUTHORITY OF CENTRAL MO	REEG	RBKS ENTERPRISE GRANTS	07/29/19	0	120,000	0	This Rural Development grant investment will be used to implement a north and south port interchange project in Boone County, MO. The project will create 10 jobs in Boone County. The north port is within the city limits of Jefferson City, Cole county. The north port is within a rural area of Callaway county. These ports will be connect to other states via highways including Ohio and Mississippi rivers. These connections provide economic development to the area. The project will create 10 jobs in Boone County. 0 decrease damage to the vehicles coming to and from the ports.
MISSOURI	HEARTLAND SOLAR SYSTEMS, LLC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/08/19	0	49,999	0	This Rural Development investment will be used for the purchase and installation of a 137 kW solar array for the poultry broiler production business in Benton, Mo. This project will generate enough energy to power 12 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total project cost \$191,999. \$150,000 borrower contribution. Special initiatives - Small Farms and Opportunity Zone.
MISSOURI	HENSON TRASH SERVICE INC	BI	GUARANTEED BA 3% FEEL LOAN	04/02/19	900,000	0	0	This Rural Development loan guarantee investment will be used to assist an existing business with Seneca, Mo. The project will create 10 jobs in Boone County. The project will create 10 jobs in Boone County. 0 business expansion will create 2 New Jobs and Save 1 Job for this geographic area.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MISSOURI	HUGHES SCREEN & ALUMINUM, LLC	BI	GUARANTEED BA 3% FEE LOAN	02/06/19	607,914	0	0	<p>This Rural Development loan guarantee investment will be used to purchase and remodel a building, purchase equipment, and restructure existing debt to allow for growth. The business specializes in aluminum handrails for multi-family housing and retirement centers. The business is located in Jefferson City, MO. Lender is 0 Central Bank of Lake of the Ozarks. Special Initiative: State Force</p>
MISSOURI	INVISIBLE FENCE OF SPRINGFIELD MISSOURI	REAP	REAP-MANDATORY RENEW ENERGY SVST GRANTS	09/06/19	0	15,288	0	<p>This Rural Development investment will be used for the purchase and installation of a 20.12 kW solar array. Invisible Fence of Springfield, Missouri, LLC sells and installs electronic pet containment systems for dogs. The business is located in Springfield, MO. Lender is 0 Medically Underserved Area, Outmigration</p>
MISSOURI	JOHN F. MEYER, INC. (DBA RITE-WAY TRUCKS)	REAP	REAP-MANDATORY RENEW ENERGY SVST GRANTS	09/17/19	0	9,415	0	<p>This Rural Development investment will be used for the purchase and installation of a 11.34 kW solar array for this truck broker business in Jefferson City, MO. This project will realize 12.34 jobs per year. The business is located in Jefferson City, MO. Lender is 0 Opportunity Zone</p>
MISSOURI	JOSUNA & LARRY SMITH PROPERTIES LLC	BI	GUARANTEED BA 3% FEE LOAN	06/16/19	102,000	0	0	<p>This Rural Development loan guarantee investment will be used for the purchase of a commercial real estate property located in Ashland, MO a community of 3,707 residents. The business is located in Ashland, MO. Lender is 0 Opportunity Zone. The project is \$354,000 for the purchase of commercial real estate property for \$272,000. Development guaranteed loan is \$300,000. Applicant contribution is \$54,000. The project will save 12 jobs and create 7 jobs in this rural community. Lender is 0 State of Missouri.</p>
MISSOURI	H&W CRIST LLC	BI	GUARANTEED BA 3% FEE LOAN	11/05/18	98,000	0	0	<p>This Rural Development loan guarantee investment will be used for the purchase of a hardware supply business located in the Paris, MO community of 1,202 residents. This business is located in Paris, MO. Lender is 0 Opportunity Zone. The project is \$209,000 for the purchase of hardware supply business in Monroe and surrounding counties as they provide a diversified array of home, construction, and farm supplies. Total cost for the project is \$209,000 with business acquisition being \$209,000, guarantee being \$5,000, and other fees of \$4,000. USDA Rural Development guaranteed loan is \$219,000. Applicant contribution is \$60,000. The project will save 4 jobs in this rural community. Lender is Alliant Bank.</p>
MISSOURI	H&W CRIST LLC	BI	GUARANTEED BA 3% FEE LOAN	11/05/18	112,000	0	0	<p>This Rural Development loan guarantee investment will be used for the purchase of a hardware supply business located in the Paris, MO community of 1,202 residents. This business is located in Paris, MO. Lender is 0 Opportunity Zone. The project is \$209,000 for the purchase of hardware supply business in Monroe and surrounding counties as they provide a diversified array of home, construction, and farm supplies. Total cost for the project is \$209,000 with business acquisition being \$209,000, guarantee being \$5,000, and other fees of \$4,000. USDA Rural Development guaranteed loan is \$210,000 and the applicant contribution of \$59,000. The project will save 4 jobs in this rural community. Lender is Alliant Bank.</p>
MISSOURI	KINGDOM PROJECTS, INC.	REEO	RBGS ENTERPRISE GRANTS	07/29/19	0	78,000	0	<p>This Rural Development grant investment will be used to purchase laundry service equipment and provide training and technical assistance to entrepreneurs. The business has been in this community for many years. This business has a loyal customer base in Monroe and surrounding counties as they provide a diversified array of home, construction, and farm supplies. Total cost for the project is \$209,000 with business acquisition being \$209,000, guarantee being \$5,000, and other fees of \$4,000. USDA Rural Development guaranteed loan is \$210,000 and the applicant contribution of \$59,000. The project will save 4 jobs in this rural community. Lender is Alliant Bank.</p>

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MISSOURI	MCVICKER, RICKY LYNN	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/17/19	0	10,390	0	This Rural Development investment will be used for the purchase and installation of a 38.48 kW solar photovoltaic system for the Vickers family. The project will replace 41,657 kWh (46%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Total project cost \$65,887; \$55,297 borrower contribution. Special initiatives - Outmigration
MISSOURI	MEKEEFE, MALISHA R	BI	GUARANTEED BAI 3% FEE LOAN	04/17/19	155,000	0	0	This Rural Development loan guarantee investment will be used to assist local business to restructure existing debt for more favorable interest rate and term and expand the business operation. This project will save 2 jobs and create 2 jobs for Wright County, MO, which is a Persistent Poverty County and Designated State Force County
MISSOURI	MEXICO PLASTIC COMPANY	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/21/19	0	20,000	0	This Rural Development investment will be used for the purchase and installation of a 150 kW solar photovoltaic system for the Mexico Plastic Company. The project will replace 153,921 kWh (2%) per year which is enough electricity to power 17 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Total project cost \$239,978; \$219,750 borrower contribution. Special initiatives - Opportunity Zone, Outmigration
MISSOURI	MID-SOUTH STEEL PRODUCTS, INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/14/19	0	20,000	0	This Rural Development investment will be used for the purchase and installation of a 65 kW solar photovoltaic system for the Mid-South Steel Products, Inc. The project will replace 90,289 kWh (90%) per year which is enough electricity to power 8 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Total project cost \$19,750; \$19,750 borrower contribution. Special initiatives - Opportunity Zone, Rural Poverty Target Strategy, Medically Underserved Area, Opportunity Zone
MISSOURI	MILLER, KEITH	REAP	REAP-MAND ENERGY EFF. IMPROV GRANTS	09/04/19	0	2,811	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting throughout the facility in Swansea, MO. The project will replace 7,484 kWh (6%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Total project cost \$1,347; \$1,347 borrower contribution. Special initiatives - Outmigration
MISSOURI	MILLER, S. DUDLEY	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/05/19	0	25,000	0	This Rural Development grant investment will be used to fund phase one of the development of a web portal and application called AgShop. The project will assist farmers, ranchers and rural small businesses in making energy efficiency improvements to their operations. Total project cost \$159,897; \$144,897 borrower contribution. Special initiatives - Opportunity Zone, Outmigration
MISSOURI	MISSOURI DEPARTMENT OF AGRICULTURE	RREG	RBGS ENTERPRISE GRANTS	07/29/19	0	91,000	0	This Rural Development loan guarantee investment will be used to assist in existing businesses with a restructure of debt. Businesses has been in operation since 1979 and this will provide financial assistance to obtain a more favorable interest rate and loan term to assist in the expansion of the business. The project will save 2 jobs and create 2 jobs for Designated State Force County (Ripley County, MO). Ripley County experienced severe and devastating flooding in June 2017 as well.
MISSOURI	MISSOURI FORGE, INC.	BI	BUSINESS & INDUSTRY GUARANTEED LOAN- 1%	11/06/18	4,500,000	0	0	

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MISSOURI	MCHAWK ELECTRIC, LLC; HAWK'S LEASING LLC	BI	GUARANTEED BI@ 3% FEE LOAN	09/19/19	680,000	0	0	This Rural Development loan guarantee investment will be used to purchase land and construct a new 1000 sq ft building for a new business in the state of Missouri. The borrower is based in Nevada, Mo. and performs infrastructural repairs through out Missouri and other states as needed for storm damage. Total cost for the project is \$753K. \$305K to purchase land and \$448K for construction. The borrower is a family owned business. The project closing costs are \$21.3K. The business is contributing \$73M. The project will create 30 jobs and save 30 jobs in Newton County, MO, a Stike Force county. Lender is First Community Bank.
MISSOURI	MORGAN, MICHAEL & SAMANTHA	BI	GUARANTEED BI@ 3% FEE LOAN	11/06/18	214,000	0	0	This Rural Development loan guarantee investment will be used to assist the expansion of an existing business into a new market. This will create 4 jobs and save 0 jobs for Lawrence County, a Designated Stike Force County.
MISSOURI	MULFORD, ARCHIE	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	09/04/19	0	8,250	0	This Rural Development investment will be used to make energy efficiency improvements in the Mulford family farm. The farm is owned by Archie and Vicki Mulford, Inc., owned by Archie and Vicki Mulford, is a family farm that raised broiler chickens in Aurora, Mo. The new radiant heaters will realize \$4.914 per year in savings and will save \$4,914 per year in energy costs. The project will create 1 job and save 1 job. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Total project cost \$33,000. \$24,750 borrower contribution. Special Initiative- Opportunity Zone
MISSOURI	NATIVE SIGNS, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/12/19	0	20,000	0	This Rural Development investment will be used to purchase a 61.32 kW solar array. Native Signs, LLC has been producing signs in Blanton, Mo. since 2010. They will realize \$8,409 savings annually and will replace 81,637 kWh (78%). The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Total eligible project costs \$134,904, borrower contribution \$114,904. Special Initiative- Opportunity Zone
MISSOURI	NETWORK SALES, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/25/19	0	25,000	0	This Rural Development investment will be used for the purchase and installation of a 42 kW & 67 kW solar array systems for this motor vehicle supply wholesaler business in St. Clair, Mo. This project will realize \$14,515 per year in savings, and will replace 138,411 kWh. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Total project cost \$162,195, \$137,156 borrower contribution.
MISSOURI	NEW MADRID CO. E-1 SCHOOL DISTRICT	REEG	REASISTANT POVERTY RBGS BUSINESS ENTERPRISE GRANT	06/05/19	0	69,466	0	This Rural Development grant investment will be used to assist in opening a new electrician program at New Madrid High school by purchasing up-to-date equipment in welding and graphic arts. By providing up-to-date equipment, this allows New Madrid students to be prepared for the workforce. The grant will also assist students in increasing placement by 5-10% in a career related field or enrollment in postsecondary education. Along with the project will be a career fair, so that students have opportunities within the area and the skills or education needed to obtain those positions.
MISSOURI	NORTHEAST MISSOURI ELECTRIC POWER COOPER	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	12/19/18	0	300,000	0	This Rural Development grant investment will be used to make improvements to the Henry County Health Center, located in Mount Pleasant, Iowa; Henry County. The improvements are to purchase a new ambulance and x-ray equipment, update the electronic medical record system, and purchase new medical equipment. The grant will also assist students in increasing placement by 5-10% in a career related field or enrollment in postsecondary education. Along with the project will be a career fair, so that students have opportunities within the area and the skills or education needed to obtain those positions.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MISSOURI	OBERHOLTZER EARL MOLT	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/14/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a 76.96 kW solar array. Performance Engineering and Manufacturing, L.L.C., a veteran owned automobile parts manufacturer in St. Clair, Mo. will realize \$5,213 per year in savings, and enough electricity to power 7 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Special initiatives- Veteran Whispering Hills Inn located on a 2.06-acre lot in Branson, Mo. Purchase price is \$2,275 million, guarantee fees and costs are \$53,005, and \$30,000 for working capital. Applicant's business plan shows that the investment will create one job and save eight jobs in rural Taney County, Mo. Lender is Guaranty Bank.
MISSOURI	OSCO LEASING 1, LLC	BI	GUARANTEED BA 3% FEE LOAN	1/10/21/8	1,740,000	0		This Rural Development loan guarantee investment will be used to assist with the expansion of an existing car wash operation into a new geographical market. Borrower has DOO contracts and is installing new car wash facilities on military installations/leases per their existing contracts. The loan will be used to purchase and install new car wash equipment. This Rural Development loan guarantee investment will assist an existing operation to expand and build a new facility. Borrower has an AAFES contract to build a new car wash facility on the Biele Air Force Base, Marysville, CA. This will create 3 new jobs and save 0 jobs.
MISSOURI	OSCO LEASING 2, LLC	BI	GUARANTEED BA 3% FEE LOAN	06/28/19	2,044,320	0		This Rural Development loan guarantee investment will be used to assist this existing business with a business expansion to a new site location at the Minot Air Force Base, Minot, ND. This will create 3 new jobs and save 0 jobs for the area.
MISSOURI	OSCO LEASING 2, LLC	BI	GUARANTEED BA 3% FEE LOAN	06/28/19	1,748,000	0		This Rural Development investment will be used for the purchase and installation of a 9.9 kW solar array. Performance Engineering and Manufacturing, L.L.C., a veteran owned automobile parts manufacturer in St. Clair, Mo. will realize \$5,213 per year in savings, and enough electricity to power 7 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Special initiatives- Veteran Whispering Hills Inn located on a 2.06-acre lot in Branson, Mo. Purchase price is \$2,275 million, guarantee fees and costs are \$53,005, and \$30,000 for working capital. Applicant's business plan shows that the investment will create one job and save eight jobs in rural Taney County, Mo. Lender is Guaranty Bank.
MISSOURI	OVERSCHMIDT WILLIAM	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/17/19	0	11,527		This Rural Development loan guarantee investment will be used for the purchase of commercial real estate property located in Bowling Green, MO a community of 3,334 people. The investment will be used to purchase and install a 10.58 kW solar array to provide assisted living facility accommodations and services. Total cost for the project is \$265,175 for the purchase of commercial real estate property for \$195,000, equipment for \$50,000, and \$20,175 for installation and other costs. The investment will create 2 jobs and save 0 jobs. The project will create 20 jobs in this rural community. Lender is HNB National Bank.
MISSOURI	PARKSIDE MANOR LLC	BI	GUARANTEED BA 3% FEE LOAN	03/21/19	195,000	0		This Rural Development loan guarantee investment will be used to assist and existing assisted living facility with a addt restructuring/refinance for three facilities. This refinance will assist the business operation to obtain a more favorable interest rate and loan term, which will allow the business to expand and build a new facility. The assisted living facilities are located in Fulton, California, and Hotel Summit, MO, all of which are rural areas. This will allow the operation to add 2 new jobs and save 33 jobs for these rural areas in Callaway and Montezuma Counties in Missouri.
MISSOURI	PCH HEALTHCARE LLC	BI	GUARANTEED BA 3% FEE LOAN	07/26/19	4,712,000	0		This Rural Development investment will be used for the purchase and installation of a 50 kW solar array. Performance Engineering and Manufacturing, L.L.C., a veteran owned automobile parts manufacturer in St. Clair, Mo. will realize \$5,213 per year in savings, and enough electricity to power 7 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Special initiatives- Veteran Whispering Hills Inn located on a 2.06-acre lot in Branson, Mo. Purchase price is \$2,275 million, guarantee fees and costs are \$53,005, and \$30,000 for working capital. Applicant's business plan shows that the investment will create one job and save eight jobs in rural Taney County, Mo. Lender is Guaranty Bank.
MISSOURI	PERFORMANCE ENGINEERING AND MANUFACTURING	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/21/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a 50 kW solar array. Performance Engineering and Manufacturing, L.L.C., a veteran owned automobile parts manufacturer in St. Clair, Mo. will realize \$5,213 per year in savings, and enough electricity to power 7 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Special initiatives- Veteran Whispering Hills Inn located on a 2.06-acre lot in Branson, Mo. Purchase price is \$2,275 million, guarantee fees and costs are \$53,005, and \$30,000 for working capital. Applicant's business plan shows that the investment will create one job and save eight jobs in rural Taney County, Mo. Lender is Guaranty Bank.
MISSOURI	PRAMUHI HOSPITALITY, LLC	BI	GUARANTEED BA 3% FEE LOAN	06/28/19	1,740,000	0		This Rural Development loan guarantee investment will be used to assist and existing assisted living facility with a addt restructuring/refinance for three facilities. This refinance will assist the business operation to obtain a more favorable interest rate and loan term, which will allow the business to expand and build a new facility. The assisted living facilities are located in Fulton, California, and Hotel Summit, MO, all of which are rural areas. This will allow the operation to add 2 new jobs and save 33 jobs for these rural areas in Callaway and Montezuma Counties in Missouri.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MISSOURI	PROCK OPERATIONS, INC.	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	09/04/19	0	62,863	0	<p>The Rural Development Investment will be used to make energy efficiency improvements with the heat installation of forced convection radiant floor heating and LED lighting throughout the manufacturing facility in Cuba, Mo. Prock Operations (aka For Your Convenience) is an existing business that manufactures a wide variety of future products. The investment will be used to make energy efficiency improvements and will replace 1,017,100 kWh (52%) per year, which is enough electricity to power 83 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements and making energy efficiency improvements to their operations. Total project cost: \$250,665; borrower contribution: 188,002. Special Initiative- Stiller Force Area</p>
MISSOURI	OMI LLC	BI	GUARANTEED 8% 3% FEE LOAN	09/09/19	380,000	0	0	<p>The Rural Development loan guarantee investment will be used to assist the borrower with a business acquisition of an existing pharmacy located in the north central Missouri community of Milan. The pharmacy provides prescription and over the counter medicines to the residents within a 30 mile radius. This project will save 4 full-time and 1 part-time job.</p>
MISSOURI	R. WEIDENMAR LLC	RES	MAND. REVIEW ENERGY SYSTEMS GRANTS UNDER \$20,000	09/17/19	0	4,342	0	<p>The Rural Development investment will be used for the purchase and installation of a 7.8 kW solar array system for this advertising agency business (Notification) in Moberly, Mo. This project will realize \$1,197 per year in savings, and will replace 10,048 kWh (100%) per year. The investment will be used to make energy efficiency improvements and will make improvements in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total project cost \$17,370; \$13,028 borrower contribution. 0 Special Initiative- Rural Poverty Target Strategy, Opportunity Zone</p>
MISSOURI	REGION WELDING OF MISSOURI, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/17/19	0	14,625	0	<p>The Rural Development investment will be used for the purchase and installation of a 25 kW solar array system for this metal manufacturing business in Union, MO. This project will realize \$3,578 per year in savings, and will replace 33,516 kWh (37%) per year. The purpose of this investment is to make energy efficiency improvements and make energy efficiency improvements in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total project cost \$58,500; \$43,875 borrower contribution.</p>
MISSOURI	REIBOLDT FARMS CORPORATION	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/03/19	0	18,869	0	<p>The Rural Development investment will be used to purchase 17.82 and 21.45 kW solar panels and inverters for the Reiboldt Farms in Cuba, Mo. The investment will be used to make energy efficiency improvements and will replace \$2,254 savings annually and will generate 61,381 kWh (100%) per year which is enough electricity to power 3 homes. The purpose of this investment is to make energy efficiency improvements and make energy efficiency improvements in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total eligible project costs \$75,597; borrower contribution \$56,668. Special Initiative- Veterans, Stiller Force Area, Opportunity Zone, Medically Underserved Area</p>
MISSOURI	RISCO H-I SCHOOL DISTRICT	REEG	RBGS ENTERPRISE GRANTS	07/20/19	0	40,000	0	<p>The Rural Development grant investment will be used to purchase and install air conditioning system into the Risco School's gymnasium. The Risco school is the heart of their community and holds many school functions. The grant will allow the school to expand its facilities and provide a safe and secure environment for the students and staff. The school has a facility large enough to hold the type of events that they would like, except the gymnasium, which tends to be too hot for young children and the elderly. The grant will provide the school with the necessary equipment to make the gymnasium a safe and secure environment for all students and staff. The grant will increase and support 0 individuals from the school and surrounding area find employment over the next 3 years.</p>

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MISSOURI	RIVER VALLEY/AG EXCHANGE, LLC	BI	GUARANTEED BAI 3% FEE LOAN	02/06/19	615,000	0	0	<p>This Rural Development loan guarantee investment will be used for debt restructuring and business expansion in the Marshall, MO a community of 13,095 residents. This business, River Valley Ag Exchange, LLC, has recently formed. This business is a full service organic and natural food processing business. The business is currently processing and packaging organic MFA elevator in Marshall. Total cost for the project is \$850,580, with debt restructuring being \$225,000, debt refinancing of \$90,000, equipment purchase of \$165,000, real estate purchase of \$100,000, and working capital of \$70,000. The project will create 3 jobs in the community. Lender is Exchange Bank of Missouri.</p> <p>This Rural Development investment will be used for the purchase and installation of a 100 kW solar photovoltaic system. The project will replace the existing solar system and row crop operation near Lamar, Mo. This project will realize \$2,514 in savings annually, replacing 26,217 kWh (100%) of electricity per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total eligible project cost \$32,000; \$24,000 borrower contribution. Special Initiatives- Shifor Force Area.</p> <p>0 Continguation</p>
MISSOURI	ROARK, JULIA LYNN	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/16/19	0	8,000	0	<p>This Rural Development investment will be used for the purchase and installation of a 9.72 kW solar photovoltaic system. The project will replace the existing solar system and row crop operation near Lamar, Mo. This project will realize \$2,514 in savings annually, replacing 26,217 kWh (100%) of electricity per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total eligible project cost \$34,000; \$25,515 borrower contribution. Special Initiatives- Opportunity Zone.</p>
MISSOURI	ROUTE CC, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/17/19	0	8,305	0	<p>This Rural Development investment will be used for the purchase and installation of a 78 kW solar photovoltaic system. The project will replace the existing solar system and row crop operation near Lamar, Mo. This project will realize \$2,514 in savings annually, replacing 26,217 kWh (100%) of electricity per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total eligible project cost \$34,000; \$25,515 borrower contribution. Special Initiatives- Opportunity Zone.</p>
MISSOURI	RUETHER, MARK	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/19/19	0	20,000	0	<p>This Rural Development investment will be used for the purchase and installation of a 78 kW solar photovoltaic system. The project will replace the existing solar system and row crop operation near Lamar, Mo. This project will realize \$2,514 in savings annually, replacing 26,217 kWh (100%) of electricity per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total eligible project cost \$34,000; \$25,515 borrower contribution. Special Initiatives- Opportunity Zone.</p>
MISSOURI	SAVANA, LLC	BI	GUARANTEED BAI 3% FEE LOAN	07/29/19	473,000	0	0	<p>This Rural Development investment will be used for the purchase and installation of a 99 kW solar photovoltaic system. The project will replace the existing solar system and row crop operation near Lamar, Mo. This project will realize \$2,514 in savings annually, replacing 26,217 kWh (100%) of electricity per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total eligible project cost \$34,000; \$25,515 borrower contribution. Special Initiatives- Shifor Force Area, Rural Poverty Target Strategy.</p>
MISSOURI	SCHUGGS-CURLEMAN LUMBER COMPANY	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/04/19	0	48,262	0	<p>This Rural Development investment will be used for the purchase and installation of a 99 kW solar photovoltaic system. The project will replace the existing solar system and row crop operation near Lamar, Mo. This project will realize \$2,514 in savings annually, replacing 26,217 kWh (100%) of electricity per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total eligible project cost \$34,000; \$25,515 borrower contribution. Special Initiatives- Rural Poverty Target Strategy.</p>
MISSOURI	SHIV SA HOSPITALITY LLC	BI	GUARANTEED BAI 3% FEE LOAN	06/04/19	730,000	0	0	<p>This Rural Development loan guarantee investment will be used to purchase the 50 room Green in Greenwood, Mo. Purchase price is \$2,000,000, guarantee fee is \$200,000, and closing costs are \$20,000.00. Agent is \$15,000. Seller is \$50,000. The project will create 2 and save 6 jobs in rural Taney County. Lender is Branson Bank.</p>

RBKS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MISSOURI	SHOW ME MINI-STORAGE, L.L.C.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/10/19	0	3,143		This Rural Development investment will be used for the purchase and installation of a 14,350 kW Solar Array. Show Me Mini Storage, LLC is a self-storage leasing facility in the rural community of Bolivar, Mo. This project will realize \$2,535 per year in savings and will save \$20,000 in the next 10 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Total eligible project cost \$12,575. \$9,432 borrower contribution. Special Initiatives - Shine Force Area, 0 Rural Poverty Target Strategy, Opportunity Zone
MISSOURI	SOLAR SYSTEMS OF SEMO, L.L.C.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	09/18/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a 54 kW solar array. Solar Systems of SEMO, L.L.C., managed by Keith Dimberger, is a electric generation company that provides solar power to 4 poultry farms at its facility in Benton, Mo. This project will realize \$1,650 per year in savings, and will replace 138,542 kWh (78%) per year which is enough electricity to power 12 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Total eligible project cost \$170,000. \$127,500 borrower contribution. Special Initiatives - Shine Force Area, Opportunity Zone, 0 Medically Underserved Area, Opportunity Zone
MISSOURI	SOUTHEAST MISSOURI REGIONAL PLANNING	REAR	REAP ENERGY AUDIT RECIPIENT	03/22/19	0	42,011		This Rural Development investment will be used throughout 7 counties in the state of Missouri to provide energy audits and energy efficiency improvements to rural small businesses and agricultural producers. These audits and site assessments will provide analysts to make energy-efficiency improvements to these businesses. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
MISSOURI	SPICER BUILDERS, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/04/19	0	42,300		This Rural Development investment will be used for the purchase and installation of a 99.83 kW solar array for this business located in the rural community of Shawnee, Mo. This project will realize \$14,650 per year in savings, and will replace 138,542 kWh (78%) per year which is enough electricity to power 12 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Total project cost \$170,000. \$127,500 borrower contribution. Special Initiatives- Opportunity Zone
								This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a grain dryer. Stewart & Stewart is a family owned business located in the rural community of Sturgeon, Mo. This project will realize \$11,003 per year in savings, and will replace 216,749 kWh (41%) per year, which is enough energy to power 20 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Total project cost - \$79,600, recipient contribution - \$59,700. Special Initiatives - Rural Poverty Target Strategy, Shine Force Area, 0 Medically Underserved Area
MISSOURI	STEWART & STEWART	EEI	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	06/14/19	0	19,360		This Rural Development loan guarantee investment will be used for the construction of real estate property located in Sturgeon, MO a community of 872 residents. Funds will also be used to assist with equipment purchases and working capital. Total cost for the project is \$20,000. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Total project cost \$45,136. \$24,604 borrower contribution. Special Initiatives- Opportunity Zone
MISSOURI	STURGEON MEAT MARKET LLC	BI	GUARANTEED 6% .3% FEE LOAN	04/12/19	85,000	0		Development guaranteed loan is \$85,000 and applicant contribution of \$38,725. The project will create 3 jobs in this rural community. Lender is Central Bank of Boone County. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Total project cost \$123,725. The project will realize \$2,841 per year in savings, and will replace 20,588 kWh (100%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Total project cost \$45,136. \$24,604 borrower contribution. Special Initiatives- Opportunity Zone
MISSOURI	SUGAR CREEK ENTERPRISE LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	09/14/19	0	11,334		

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MISSOURI	SWARTZ, JERRY	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/14/19	0	0	4,875	<p>This Rural Development investment will be used for the purchase and installation of a 9.72 kW solar array for this diversified farm business in Sweet Springs, Mo. This project will realize \$1,333 per year in savings, and will replace 14,552 kWh (100%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total project cost \$19,500, \$14,625 borrower contribution. Special Initiatives - 0 Opportunity Zone</p> <p>This Rural Development investment will be used for the purchase and installation of a 99.48 kW solar array for this diversified farm business in Sweet Springs, Mo. This project will realize \$11,986 in savings annually, replacing 100,730 kWh (72%) of electricity per year, which is enough electricity to power 9 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total project cost \$164,000, \$123,000 borrower contribution.</p>
MISSOURI	THE BRASS, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/04/19	0	0	41,000	<p>This Rural Development investment will be used for the purchase and installation of a 1.2 kW solar array for this diversified farm business in Sweet Springs, Mo. This project will realize \$1,230 per year in savings, and will replace 3,399 kWh (6%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total project cost \$12,045, \$9,000 borrower contribution. Special Initiatives - 0 Strive Force County, Rural Poverty Target Strategy</p>
MISSOURI	THOMPSON, ROBERT DOUGLAS	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/14/19	0	0	3,010	<p>This Rural Development investment will be used to make energy efficiency improvements to the home of a family owned farming operation that produces grain at its facility in Ball City, Mo. This project will realize \$7,821 per year in savings, and will replace 79,934 kWh (84%). The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total project cost \$5,785 borrower contribution. \$3,764. Special Initiatives - Rural Poverty Target Strategy, Strive Force Area, Opportunity Zone/Reserved Area</p>
MISSOURI	TOWBETOWN, INC. DBA CASTOR RIVER FARMS	EEI	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	04/16/19	0	0	13,044	<p>This Rural Development investment will be used for the purchase and installation of a 99.7 kW solar array system for this diagnostic nuclear imaging business in Washington, Mo. This project will realize \$1,333 per year in savings, and will replace 14,552 kWh (100%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total project cost \$19,500, \$14,625 borrower contribution. Special Initiatives - 0 Opportunity Zone, Outing program</p>
MISSOURI	UNIVERSAL MEDICAL RESOURCES, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/09/19	0	0	48,865	<p>This Rural Development investment will be used for the purchase and installation of a 13.9 kW solar array for this diversified farm business in Sweet Springs, Mo. This project will realize \$1,333 per year in savings, and will replace 14,552 kWh (100%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total project cost \$53,326, \$30,192 borrower contribution. Special Initiatives - 0 Opportunity Zone, Outing program</p>
MISSOURI	VOGELSMEER, DUANE	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/09/19	0	0	5,137	<p>This Rural Development investment will be used for the purchase and installation of a 23.8 kW solar array for this agriculture production business in Sweet Springs, Mo. This project will realize \$1,333 per year in savings, and will replace 14,552 kWh (100%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total project cost \$53,326, \$30,192 borrower contribution. Special Initiatives - 0 Opportunity Zone, Outing program</p>
MISSOURI	VOGELSMEER, JAMES DOUGLAS	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/09/19	0	0	12,293	<p>This Rural Development investment will be used for the purchase and installation of a 23.8 kW solar array for this agriculture production business in Sweet Springs, Mo. This project will realize \$1,333 per year in savings, and will replace 14,552 kWh (100%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Total project cost \$53,326, \$30,192 borrower contribution. Special Initiatives - 0 Opportunity Zone, Outing program</p>

RBCS FY2019 Obligations

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RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MONTANA	MCALLISTER INN INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER RES300	03/27/19	0	18,865	0	This Rural Development investment will be used for the purchase and installation of a 50 kW Solar PV Array to power hotel operations. McCallister Inn is located in Glacier/Park County, MT. This hotel is owned and operated by Rod and Jill McCallister and just outside of Glacier National Park. The hotel is a historic building and has been operating since 1936 and will receive \$18,865 kWh or 38% of its annual electricity needs. This is a very important energy to power approximately 6 houses annually. The purpose of this funding program is to assist farmer, ranchers, and small businesses in developing energy systems and to make energy efficient improvements to their business operations.
MONTANA	MCPHERSON REAL ESTATE LLC	EEI	MAND. ENERGY EFFIC IMPROV GRANTS UNDER RES300	05/24/19	0	20,000	0	This Rural Development investment will be used to assist McPherson Real Estate for the purchase and installation of an upgraded energy efficient HVAC system, which will save approximately 10,000 kWh per year. The project is located in Glacier National Park, Glacier House, MT. Business community supports two full time jobs. Rural Development financing was leveraged with business owners cash injection of \$60,000. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations.
MONTANA	MID-RIVERS TELEPHONE COOPERATIVE INC.	REDLG	RURAL ECONOMIC DEVELOPMENT LOANS (TELEPHONE)	09/11/19	0	0	587,525	This Rural Development investment will be used to provide a loan to a rural utility program borrower to provide for economic development. This project will finance equipment for a Mid-Rivers Telephone Cooperative (MTC) in Montana. The project is located in a very rural area and will assist in meeting the regulatory requirements of Montana and Medicaid and improve access to modern healthcare services for the community. The project is part of a \$15 million renovation. The hospital anticipates creating three new jobs and will serve a rural community of 500 people. There has not been any other funding for this project or area.
MONTANA	MISSOULA ELECTRIC COOPERATIVE INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/26/19	0	20,000	0	This Rural Development investment will be used to provide an annual technical assistance grant to Montana Community Development Corporation (MCDCO) to support the initial RMAP revolving loan fund awarded in fiscal year 2011. Funds will be used to provide technical assistance to rural communities in Montana. The project is located in a very rural area and will assist in meeting the regulatory requirements of Montana and Medicaid and improve access to modern healthcare services for the community. The project is part of a \$15 million renovation. The hospital anticipates creating three new jobs and will serve a rural community of 500 people. There has not been any other funding for this project or area.
MONTANA	MONTANA COMMUNITY DEVELOPMENT CORP	RMAP	DISCRETION ASSIST MICROENTERPRENEURS	09/26/19	0	44,291	0	This Rural Development investment will be used by Montana Cooperative Development Center, Inc. (MCDCO) to help finance the training expenses of prospective consultants on the cooperative business model. The project will provide technical assistance to members of the cooperative business model. The project is located in a very rural area and will assist in meeting the regulatory requirements of Montana and Medicaid and improve access to modern healthcare services for the community. The project is part of a \$15 million renovation. The hospital anticipates creating three new jobs and will serve a rural community of 500 people. There has not been any other funding for this project or area.
MONTANA	MONTANA COOPERATIVE DEVELOPMENT CENTER	SDPG	SMALL SOCIALLY DISADVANTAGED PRODUCER GRANT	09/12/19	0	68,865	0	This Rural Development investment will be used by Montana Cooperative Development Center, Inc. (MCDCO) to help finance the training expenses of prospective consultants on the cooperative business model. The project will provide technical assistance to members of the cooperative business model. The project is located in a very rural area and will assist in meeting the regulatory requirements of Montana and Medicaid and improve access to modern healthcare services for the community. The project is part of a \$15 million renovation. The hospital anticipates creating three new jobs and will serve a rural community of 500 people. There has not been any other funding for this project or area.

Borrower or Grantee	State	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MONTANA COOPERATIVE MONTANA DEVELOPMENT CENTER	MONTANA	RBCG	RBCS ENTERPRISE GRANTS PERSISTENT POVERTY RDOG - RURAL COOPERATIVE DEVELOPMENT GRANTS	06/27/19	0	29,000	0	\$29,000 RBCGS \$10,000 technical assistance from MCM's \$8,000 existing funds from National Farm Income Grant Fund. The remaining \$19,000 will be used to help finance a conceptual plan-feasibility study for a cooperatively-owned mixed-use development in Cascade County. The planned business will own a piece of commercial space and develop a small farmstead with residential spaces that they will sub-let to small businesses that will serve moderate income neighborhood(s) also planned for the site. The planned cooperative will serve many purposes such as the rural residents' need for affordable housing, support local food system, protect the commercial space, provide much needed small business development in the area.
MONTANA		RBCG		09/10/19	0	200,000	0	3.Fit a vord in the moderate income housing stock for the area. 4.Manage the investment, open space and recreational access to benefit the member-residents as well as the surrounding neighborhoods; and 5.Generate sufficient income for the School Trust Fund.
MONTANA CRAFT MALT COMPANY BI	MONTANA		GUARANTEED B&I 3% FEE LOAN	11/16/18	10,000,000	0	0	The Rural Development loan guarantee investment will be used to term out of reinvestment financing used to facilitate the construction of a new malting plant for malt production. This facility will produce malt for craft breweries in Montana and beyond. MCM will offer 15 jobs to employ capable individuals located in rural areas (Butte, Missoula, Glacier House). The project will provide training and employment opportunities for rural community. MCM expects to have a strong business which will partner solely with rural Montana farmers for grain to malt. This grant from Montana "Made in America" and the sale of it will support and strengthen not only the agricultural producer but the rural economy as a whole. The project will increase the economic vitality of the rural communities by 25% of its products to markets abroad and boost our country's global competitiveness. MCM is utilizing nearly 50% of its own private capital to fund the project, leveraging resources to \$250,000,000 total. Borrower Contribution \$3,500,000 Total Net Debt Loan \$250,000,000 Total Project Cost
MTAM SURCUS, LLC	MONTANA	REAP	REAP-MANO ENERGY EFF IMPROV GRANTS	06/27/19	0	102,129	0	The Rural Development investment will be used for energy efficiency upgrades for a historic building. MTAM Surcus, L.L.C., a woman-owned business, will operate a fitness center in the historic building. The project will improve the building's energy efficiency and reduce operating costs over three years. Project funds will be used to make energy efficiency improvements with the purchase and installation of a high efficiency heating, ventilation, and air conditioning (HVAC) unit, insulation and thermal mass walls, lighting controls, and more. The project will save \$2,335 per year in energy costs and \$13,992 kWh of electricity per year at 0.125¢/kWh, which is enough electricity to power eleven homes.
NACKS FINANCIAL SERVICES, INC. RMAP NATIONAL CENTER FOR APPROPRIATE TECH	MONTANA	RBCG	DISCRETION ASSIST MICROENTERPRENEIS APPROPRIATE TECH TRANSFER TO RURAL	09/25/19 05/15/19	0 2,860,000	54,772	0	The Rural Development investment will be used to provide in annual technical assistance grants to micro-enterprises in Cascade County. The project will support and strengthen not only the agricultural producer but the rural economy as a whole. The project will increase the economic vitality of the rural communities by 25% of its products to markets abroad and boost our country's global competitiveness. MCM is utilizing nearly 50% of its own private capital to fund the project, leveraging resources to \$250,000,000 total. Borrower Contribution \$3,500,000 Total Net Debt Loan \$250,000,000 Total Project Cost
NATIVE AMERICAN DEVELOPMENT CORP.	MONTANA	RBCG	RBCS DEVELOPMENT GRANT	07/23/19	0	25,000	0	The Rural Development investment will be used to provide technical assistance to create a multi-jurisdictional planning and feasibility study for rural Tribal areas and assist in the implementation of tools and strategies that could increase the flow of commercial lending in development of Rural Tribal communities.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MONTANA	WARRIOR, LLC	RES	MAND. REVIEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/04/19	0	2,394		This Rural Development investment will be used to assist Warrior LLC to purchase and install a 13,277 kWh solar system to be used to power the operations of a Warrior LLC, a veteran-owned business. The business requires large amounts of energy to operate and this solar system will reduce the amount of energy required to operate the business. The solar system will save the business approximately \$200 per year in electricity costs. The purpose of this funding program is to assist the business in making energy efficiency improvements to their operations. \$8,804 Owner Funds \$11,976 Total Project Costs
		RES	MAND. REVIEW ENERGY SYSTEMS GRANTS UNDER \$20,000					This Rural Development investment will be used for the purchase and installation of a 49.88 kW solar PV system. Alan Weaver is a sole owner/operator of a cattle operation in Big Horn County, Montana. The business requires large amounts of energy to operate and this solar system will reduce the amount of energy required to operate the business. The solar system will save the business approximately \$200 per year in electricity costs. The purpose of this funding program is to assist the business in making energy efficiency improvements to their operations. \$8,804 Owner Funds \$11,976 Total Project Costs
MONTANA	WEAVER, ALAN	RES	MAND. REVIEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/04/19	0	3,329		This Rural Development investment will be used for the purchase and installation of a 49.88 kW solar PV system. Alan Weaver is a sole owner/operator of a cattle operation in Big Horn County, Montana. The business requires large amounts of energy to operate and this solar system will reduce the amount of energy required to operate the business. The solar system will save the business approximately \$200 per year in electricity costs. The purpose of this funding program is to assist the business in making energy efficiency improvements to their operations. \$8,804 Owner Funds \$11,976 Total Project Costs
NEBRASKA	REELS FARMS INC	REAP	REAP-MAND ENERGY EFF. IMPROV GRANTS	09/19/19	0	24,413		This Rural Development investment will be used for the purchase and installation of a 49.88 kW solar PV system. Alan Weaver is a sole owner/operator of a cattle operation in Big Horn County, Montana. The business requires large amounts of energy to operate and this solar system will reduce the amount of energy required to operate the business. The solar system will save the business approximately \$200 per year in electricity costs. The purpose of this funding program is to assist the business in making energy efficiency improvements to their operations. \$8,804 Owner Funds \$11,976 Total Project Costs
		EEl	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/20/19	0	18,003		This Rural Development investment will be used for the purchase and installation of a 49.88 kW solar PV system. Alan Weaver is a sole owner/operator of a cattle operation in Big Horn County, Montana. The business requires large amounts of energy to operate and this solar system will reduce the amount of energy required to operate the business. The solar system will save the business approximately \$200 per year in electricity costs. The purpose of this funding program is to assist the business in making energy efficiency improvements to their operations. \$8,804 Owner Funds \$11,976 Total Project Costs
NEBRASKA	ALLEN, LOREN	EEl	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/11/19	0	8,025		This Rural Development investment will be used for the purchase and installation of a 49.88 kW solar PV system. Alan Weaver is a sole owner/operator of a cattle operation in Big Horn County, Montana. The business requires large amounts of energy to operate and this solar system will reduce the amount of energy required to operate the business. The solar system will save the business approximately \$200 per year in electricity costs. The purpose of this funding program is to assist the business in making energy efficiency improvements to their operations. \$8,804 Owner Funds \$11,976 Total Project Costs
NEBRASKA	AMERICAN SHIZUKI CORPORATION	REAP	REAP-MAND ENERGY EFF. IMPROV GRANTS	09/19/19	0	381,750		This Rural Development investment will be used for the purchase and installation of a 49.88 kW solar PV system. Alan Weaver is a sole owner/operator of a cattle operation in Big Horn County, Montana. The business requires large amounts of energy to operate and this solar system will reduce the amount of energy required to operate the business. The solar system will save the business approximately \$200 per year in electricity costs. The purpose of this funding program is to assist the business in making energy efficiency improvements to their operations. \$8,804 Owner Funds \$11,976 Total Project Costs
NEBRASKA	ANDREWS, PAUL D.	EEl	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/11/19	0	4,044		This Rural Development investment will be used for the purchase and installation of a 49.88 kW solar PV system. Alan Weaver is a sole owner/operator of a cattle operation in Big Horn County, Montana. The business requires large amounts of energy to operate and this solar system will reduce the amount of energy required to operate the business. The solar system will save the business approximately \$200 per year in electricity costs. The purpose of this funding program is to assist the business in making energy efficiency improvements to their operations. \$8,804 Owner Funds \$11,976 Total Project Costs

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NEBRASKA	ANSON, LESTER	EEI	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/22/19	0	3,035		<p>This Rural Development investment will be used for the purchase and installation of a new more efficient electric irrigation motor. Lester Anson lives locally, owns and operates as a owner and investor in agricultural real estate. Project funds will be used to make energy efficiency improvements with the purchase and installation of a new more efficient electric irrigation motor. This project will realize \$1,269 per year in savings, and will save 47,217 0 kWh of electricity per year (65.33%) which is enough electricity to power four homes.</p> <p>This Rural Development investment will be used for the purchase and installation of a new more efficient electric irrigation motor. Lester Anson lives locally, owns and operates as a owner and investor in agricultural real estate. Project funds will be used to make energy efficiency improvements with the purchase and installation of a new more efficient electric irrigation motor. This project will realize \$1,269 per year in savings, and will save 47,217 0 kWh of electricity per year (65.33%) which is enough electricity to power four homes.</p>
NEBRASKA	BARTAK, DANA	EEI	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/11/19	0	4,133		<p>This Rural Development investment will be used for the purchase and installation of a new more efficient electric irrigation motor. Dana Bartak lives locally, owns and operates as a owner and investor in agricultural real estate. Project funds will be used to make energy efficiency improvements with the purchase and installation of a new more efficient electric irrigation motor. This project will realize \$1,269 per year in savings, and will save 47,217 0 kWh of electricity per year (65.33%) which is enough electricity to power four homes.</p> <p>This Rural Development investment will be used for the purchase and installation of a new more efficient electric irrigation motor. Dana Bartak lives locally, owns and operates as a owner and investor in agricultural real estate. Project funds will be used to make energy efficiency improvements with the purchase and installation of a new more efficient electric irrigation motor. This project will realize \$1,269 per year in savings, and will save 47,217 0 kWh of electricity per year (65.33%) which is enough electricity to power four homes.</p>
NEBRASKA	BEAD MOUNTAIN RANCH, INC.	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/17/19	0	6,134		<p>This Rural Development investment will be used for the purchase and installation of five new more efficient electric irrigation motors. BEAD MOUNTAIN RANCH, INC. is a family owned and operated real estate investment business. Project funds will be used to make energy efficiency improvements with the purchase and installation of five new more efficient electric irrigation motors. This project will realize \$22,806 per year in savings, and will save 359,861 kWh of electricity per year (65.33%) which is enough electricity to power 86 homes.</p> <p>This Rural Development investment will be used for the purchase and installation of five new more efficient electric irrigation motors. BEAD MOUNTAIN RANCH, INC. is a family owned and operated real estate investment business. Project funds will be used to make energy efficiency improvements with the purchase and installation of five new more efficient electric irrigation motors. This project will realize \$22,806 per year in savings, and will save 359,861 kWh of electricity per year (65.33%) which is enough electricity to power 86 homes.</p>
NEBRASKA	BEEJAERT, ROBERT	EEI	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/11/19	0	13,882		<p>This Rural Development investment will be used for the purchase and installation of five new more efficient electric irrigation motors. Robert Beejaert lives locally, owns and operates as a owner and investor in agricultural real estate. Project funds will be used to make energy efficiency improvements with the purchase and installation of five new more efficient electric irrigation motors. This project will realize \$22,806 per year in savings, and will save 359,861 kWh of electricity per year (65.33%) which is enough electricity to power 86 homes.</p> <p>This Rural Development investment will be used for the purchase and installation of five new more efficient electric irrigation motors. Robert Beejaert lives locally, owns and operates as a owner and investor in agricultural real estate. Project funds will be used to make energy efficiency improvements with the purchase and installation of five new more efficient electric irrigation motors. This project will realize \$22,806 per year in savings, and will save 359,861 kWh of electricity per year (65.33%) which is enough electricity to power 86 homes.</p>
NEBRASKA	BEN LEE FARMS, INC.	EEI	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/17/19	0	8,325		<p>This Rural Development investment will be used for the purchase and installation of five new more efficient electric irrigation motors. Ben Lee Farms, Inc. is a family owned and operated real estate investment business. Project funds will be used to make energy efficiency improvements with the purchase and installation of five new more efficient electric irrigation motors. This project will realize \$22,806 per year in savings, and will save 359,861 kWh of electricity per year (65.33%) which is enough electricity to power 86 homes.</p> <p>This Rural Development investment will be used for the purchase and installation of five new more efficient electric irrigation motors. Ben Lee Farms, Inc. is a family owned and operated real estate investment business. Project funds will be used to make energy efficiency improvements with the purchase and installation of five new more efficient electric irrigation motors. This project will realize \$22,806 per year in savings, and will save 359,861 kWh of electricity per year (65.33%) which is enough electricity to power 86 homes.</p>
NEBRASKA	BOARD OF REGENTS UNIVERSITY OF NEBRASKA	ROD	PERSISTENT POVERTY RCDG - RURAL COOPERATIVE DEVELOPMENT GRANTS	09/11/19	0	200,000		<p>This Rural Development investment will be used for the purchase and installation of five new more efficient electric irrigation motors. Board of Regents University of Nebraska is a family owned and operated real estate investment business. Project funds will be used to make energy efficiency improvements with the purchase and installation of five new more efficient electric irrigation motors. This project will realize \$22,806 per year in savings, and will save 359,861 kWh of electricity per year (65.33%) which is enough electricity to power 86 homes.</p> <p>This Rural Development investment will be used for the purchase and installation of five new more efficient electric irrigation motors. Board of Regents University of Nebraska is a family owned and operated real estate investment business. Project funds will be used to make energy efficiency improvements with the purchase and installation of five new more efficient electric irrigation motors. This project will realize \$22,806 per year in savings, and will save 359,861 kWh of electricity per year (65.33%) which is enough electricity to power 86 homes.</p>
NEBRASKA	BRAUN'S IGA, INC	REAP	REAP-MAND-ENERGY EFF IMPROV GRANTS	07/24/19	0	2,421		<p>This Rural Development investment will be used for the purchase and installation of five new more efficient electric irrigation motors. Braun's IGA, Inc. is a family owned and operated real estate investment business. Project funds will be used to make energy efficiency improvements with the purchase and installation of five new more efficient electric irrigation motors. This project will realize \$22,806 per year in savings, and will save 359,861 kWh of electricity per year (65.33%) which is enough electricity to power 86 homes.</p> <p>This Rural Development investment will be used for the purchase and installation of five new more efficient electric irrigation motors. Braun's IGA, Inc. is a family owned and operated real estate investment business. Project funds will be used to make energy efficiency improvements with the purchase and installation of five new more efficient electric irrigation motors. This project will realize \$22,806 per year in savings, and will save 359,861 kWh of electricity per year (65.33%) which is enough electricity to power 86 homes.</p>

RSCS FY2019 Obligations						
State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Direct Loan Amount
NEBRASKA	CENTER FOR RURAL AFFAIRS	REG	RSCS ENTERPRISE GRANTS	07/25/19	0	57,390
		RMAP	DISCRETION ASSIST MICROENTERPRENERS	09/25/19	0	101,473
		SSDPG	PERSISTENT POVERTY GRANTS TO ASSIST MINORITY PRODUCERS	09/11/19	0	121,520
	COLUMBUS AREA CHAMBER OF COMMERCE	REG	RSCS ENTERPRISE GRANTS	07/24/19	0	26,990
	DEIMMEL FARMS, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER 100,000	05/20/19	0	3,266
Project Description						
This Rural Development investment will be used to provide training and technical assistance in Columbus, NE, Norfolk, NE, Hastings, NE, and Nebraska City, NE for small and emerging food businesses to assist Latino develop home based food businesses or start new food businesses. The project will provide training and technical assistance in both English and Spanish to ensure access to the information is available to the target audience. Participants will receive training in completing a business plan and food handling permit application. The project will also provide technical assistance to assist participants who complete the training should have a complete business plan. See State permitting, and a roadmap to move forward with their new business enterprise. This project is expected to assist at least 6 businesses, which will create 32 full-time equivalent jobs.						
This Rural Development investment will be used to provide business based training and technical assistance to assist small and emerging food businesses in rural areas under 50,000 population, which includes Nebraska Congressional Districts 01-Fort Henry, 02-Bacon and 03-Smith. FY19 RMAP (Rural Micro and Access Program) has received RMAP grant funds in the following years: FY17, FY18 \$10,000,000; FY12 \$85,160; FY13 \$39,739; FY14 \$47,947; FY15 \$84,665; FY16 \$91,545; FY17 \$64,546; FY18 \$66,940; FY19 \$101,473. Each grant requires a 15% match.						
Center for Rural Affairs (CRA) proposes to support cooperative development among 5 socially disadvantaged rural audiences, specifically Native Americans, Latinos, and women, through training and technical assistance. The project will provide training and technical assistance to 0 groups, and steps to cooperative development that fit their businesses.						
This Rural Development investment will be used to provide training and technical assistance in Thurston, Burr, and Knox counties for small food and ag-based businesses based in the rural areas under 50,000 population. The project will provide training and technical assistance in crop handling and processing, market options, product development, improving production capacity, and marketing. The project will provide training workshops focusing on entrepreneurship opportunities, business plan development, and marketing. The project will also provide technical assistance in the creation and marketing of tribal art. The project will focus on small and emerging businesses located in Burr and Knox counties as well as Thurston county, NE. The project will provide training and technical assistance to assist at least 0 additional businesses, which will create 18.75 full-time equivalent jobs.						
This Rural Development investment will be used to provide training and technical assistance in Boone, NE, Grant, NE, Lincoln, NE, Platte, NE, and Valley counties. The project will provide training and technical assistance to assist small and emerging food businesses in the Columbus County area. The project will provide training and technical assistance in crop handling and processing, market options, product development, improving production capacity, and marketing. The project will provide training workshops focusing on entrepreneurship opportunities, business plan development, and marketing. The project will also provide technical assistance in the creation and marketing of tribal art. The project will focus on small and emerging businesses located in Boone and Knox counties as well as Thurston county, NE. The project will provide training and technical assistance to assist at least 0 additional businesses, which will create 2.3 full-time equivalent jobs.						
This Rural Development investment will be used for the purchase and installation of 25.5 kW Solar Array. Alan Demmel is a locally owned and operated hog production farm that has been in existence since May 2017. This project will realize \$4,570 per year in savings, which will be used to assist in the purchase and installation of solar panels for the farm. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.						

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RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount
NEBRASKA	OVR FAMILY LIMITED PARTNERSHIP	EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/18/19	0	0	15,420
		REAP	REAP-MAND-ENERGY EFF IMPROV GRANTS	09/06/19	0	0	31,777
		RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/17/19	0	0	2,701
		EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/18/19	0	0	4,259
NEBRASKA	HEISS, LYLE			05/18/19	0	0	4,096
NEBRASKA	HO-CHUNK COMMUNITY DEVELOPMENT CORP	REEL	RBGS ENTERPRISE NATIVE AMERICAN GRANT	08/13/19	0	318,065	
		EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/18/19	0	0	7,804

Project Description

This Rural Development investment will be used for the purchase and installation of three (3) electric motors for irrigation pumps owned and operated by Ovr Family Limited Partnership. Project funds will be used to make energy efficiency improvements with the purchase and installation of more efficient 100 HP electric motors for irrigation pumps. The project will replace 3 existing 75 HP electric motors with 100 HP electric motors. The project will save 86,104 kWh of electricity per year (65%), which is enough electricity to power 19 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of six electric irrigation motors. H Corporation is a locally owned and operated agribusiness production corporation operating 200 acres of corn and soybeans. The project will replace 6 existing 75 HP electric motors with 100 HP electric motors. The project will save 97,211 kWh (65%) per year, which is enough electricity to power 88 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

This Rural Development investment will be used for the purchase and installation of 1140 W solar for stock wells. H Hunter Company, LLC is a locally owned and operated land leasing and management company. The project will install 1140 W solar panels on 20 acres of land. The project will save 20,149 kWh of electricity per year (100%), which is enough to power one home.

This Rural Development investment will be used for the purchase and installation of 100 HP Electric Motor. Lyle Heiss lives locally and produces primarily corn and beans. Project funds will be used to make energy efficiency improvements with the purchase and installation of 100 HP Electric Motor. This project will replace 2,043 per year in savings, and will save 91,149 kWh of electricity per year (100%), which is enough electricity to power eight homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

This Rural Development investment will be used for the purchase and installation of diesel to corn and beans to a partnership to farm and operate a lessor of real estate business. Project funds will be used to make energy efficiency improvements with the purchase and installation of 100 HP electric motors. The project will replace 3 existing 75 HP electric motors with 100 HP electric motors. The project will save 86,104 kWh of electricity per year (65%), which is enough electricity to power eight homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

Rural Development funds will be used to support infrastructure expansion for a new 40 acre development in Winnebago, NE. Grant funds will support a portion of the infrastructure that will be used to develop the new development. The project will include the construction of parking, and extension of utility services so that the developed area is ready to accept construction of retail, office, and business warehouse structures. The expanded development will create or support 38 full-time equivalent jobs. The project is expected to assist at a minimum 5 businesses and create or support 38 full-time equivalent jobs.

This Rural Development investment will be used for the purchase and installation of diesel to electric motor. Matthew Heiss lives locally and operates a farm producing mainly corn and soybeans. Project funds will be used to make energy efficiency improvements with the purchase and installation of 75 HP electric motor. The project will replace 3 existing 75 HP electric motors with 100 HP electric motors. The project will save 86,104 kWh of electricity per year (65%), which is enough electricity to power 13 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NEBRASKA	NEBRASKA INDIAN COMMUNITY COLLEGE	REEG	REEG ENTERPRISE NATIVE AMERICAN GRANT	08/09/19	0	130,087	0	Rural Development funds will be used to create an accelerated Child Development Associate certification program at Nebraska Indian Community College's Santee and Macy campuses. Currently there is a low rate of private businesses in the communities of Macy, Nebraska, Santee and Sutherland. This presents a great need for additional training to create business opportunities in these locations. The courses that will be offered will allow potential businesses to be created or for individuals to become certified to work in the areas of child development and early childhood education. This project is expected to assist at least 20 small businesses and create or support up to 15 full time equivalent jobs.
NEBRASKA	NEBRASKA INDIAN COMMUNITY COLLEGE	REEG	REEG ENTERPRISE NATIVE AMERICAN GRANT	08/12/19	0	130,759	0	Rural Development funds will be used to create an accelerated Carpentry certification program at Nebraska Indian Community College's Santee and Macy campuses. Currently there is a low rate of private businesses in the communities of Macy, Nebraska, Santee and Sutherland. This presents a great need for additional training to create business opportunities in these locations. The courses that will be offered will allow potential entrepreneurs with the knowledge to create and operate their own businesses. This project is expected to assist at least 20 small businesses and create or support up to 11 full time equivalent jobs.
NEBRASKA	NEBRASKA INDIAN COMMUNITY COLLEGE	REEG	REEG ENTERPRISE NATIVE AMERICAN GRANT	08/09/19	0	131,710	0	Rural Development funds will be used to create an accelerated Carpentry certification program at Nebraska Indian Community College's Santee and Macy campuses. Currently there is a low rate of private businesses in the communities of Macy, Nebraska, Santee and Sutherland. This presents a great need for additional training to create business opportunities in these locations. The courses that will be offered will allow potential businesses to be created or for individuals to become certified to work in the construction industry within the area of carpentry. This project is expected to assist at least 11 small businesses and create or support up to 17.5 full time equivalent jobs.
NEBRASKA	NORFOLK CITY OF	REEG	REEG ENTERPRISE GRANTS	07/25/19	0	75,000	0	This Rural Development investment will be used to establish a revolving loan fund for the Norfolk community in central Nebraska. The city of Norfolk is one of the poorest cities in Nebraska and is in need of job opportunities and retain existing jobs by providing opportunities for financing to new business startups and financing for expansion or retention of existing businesses. The funds will be used to create a revolving loan fund that will be used to provide financing to small development projects in Norfolk and the surrounding communities. The project is estimated to assist at least 3 small and emerging businesses and to create or support 22 jobs.
NEBRASKA	NORTHEAST ECONOMIC DEVELOPMENT, INC	RMAP	DISCRETION ASSIST MICROENTERPRENEURS	09/25/19	0	86,433	0	This Rural Development investment will be used to provide business based training and technical assistance to microenterprises and small businesses in rural Nebraska counties: Antelope, Boone, Boyd, Brown, Butler, Cedar, Cherry, Colfax, Cuming, Dakota, Dixon, Dodge, Douglas, Holt, Keara, Paha, Knox, Lincoln, Madison, Nemaha, Phelps, Platte, Polk, Red Willow, Saline, Scott, Sherman, and York. The project includes Nebraska Compassion Directs 01-Forrestary and 03-Smith. FY19 RMAP funding will be \$86,433 grant. The applicant will provide 15% match to the grant \$9,965. Northeast Economic Development, Inc (NEED) has received RMAP grant for the year FY18-FY19 for \$15,000.00. FY18 \$36,640; FY17 \$23,072; FY18 \$42,854; FY19 \$86,433. Each grant requires a 15% match.
NEBRASKA	MUMAKE-1, LLC	BI	GUARANTEED BAI 3% FEE LOAN	07/23/19	5,000,000	0	0	This Rural Development loan guarantee will be used to help an interior construction financing to purchase, construct, and install equipment to develop a 3,000 metric ton/year ProTyon and 19,000 ton/year Min/Yton animal food manufacturing facility. The ProTyon and Min/Yton products will be produced and sold through state agreements with processors and feed mills. The project is located in Lincoln County, Nebraska. The project will be financed in Sutherland, NE, which is in Lincoln County, and the project is expected to create 11 jobs.

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NEBRASKA	OBRIEN DALE	EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$25,000	05/17/19	0	13,266	0	<p>This Rural Development investment will be used for the purchase and installation of diesel to electric motor conversion. Dale Obrien lives locally, owns and operates a small family row crop and cattle operation. Project funds will be used to make energy efficiency improvements in the project's residence. The project will purchase and install 100,000 kWh of electricity per year (12%), which is enough to power 12 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
NEBRASKA	PINC FARMS, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/09/19	0	11,361	0	<p>This Rural Development investment will be used for the purchase and installation of 25 kW solar array. Pinc Farms LLC is a locally owned and operated customer hog operation that has been in existence since 2010. This project will realize \$3,079 per year in savings, and will generate 136,300 kWh of electricity per year (12%), which is enough to power 12 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
NEBRASKA	REGIER PHILIP	EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$25,000	05/17/19	0	3,671	0	<p>This Rural Development investment will be used for the purchase and installation of diesel to electric motor conversion. Phillip Regier lives locally, owns and rents property for the production of corn. Project funds will be used to make energy efficiency improvements with the purchase and installation of 100,000 kWh of electricity per year (12%), which is enough to power 12 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
NEBRASKA	RIVERPOINT PROPERTIES, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/09/19	0	39,809	0	<p>This Rural Development investment will be used for the purchase and installation of 52.5 kW solar array. Riverpoint Properties, LLC is a locally owned and operated Real Estate company that has been in existence since 2010. This project will realize \$3,079 per year in savings, and will generate 136,300 kWh of electricity per year (12%), which is enough to power 12 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
NEBRASKA	SCHUSTER RANCH, LLC	RES	MAND- RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/17/19	0	2,539	0	<p>This Rural Development investment will be used for the purchase and installation of solar panels to replace stock wells. Gary Schuster lives locally, owns and operates Sequoia Partners, LLC, a locally owned and operated financial advising firm which has been in existence since 2010. This project will realize \$3,079 per year in savings, and will generate 136,300 kWh of electricity per year (12%), which is enough to power 12 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
NEBRASKA	SCHUSTER PAUL	REAP	REAP-MAND-ENERGY EFF IMPROV GRANTS	09/09/19	0	18,322	0	<p>This Rural Development investment will be used for the purchase and installation of home energy efficiency improvements to power irrigation. Paul Schuster, a Sequoia Wealth Partners, LLC is a locally owned and operated financial advising firm which has been in existence since 2010. This project will realize \$3,079 per year in savings, and will generate 136,300 kWh of electricity per year (12%), which is enough to power 12 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
NEBRASKA	SEQUOIA WEALTH PARTNERS, LLC	REAP	REAP-MAND-ENERGY EFF IMPROV GRANTS	09/09/19	0	29,212	0	<p>This Rural Development investment will be used for the purchase and installation of lighting, windows, doors, insulated siding, insulated roof system, and HVAC. Sequoia Wealth Partners, LLC is a locally owned and operated financial advising firm which has been in existence since 2010. This project will realize \$3,079 per year in savings, and will generate 136,300 kWh of electricity per year (12%), which is enough to power 12 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
NEBRASKA	SHAKTI HOSPITALITY, LLC	BI	GUARANTEED BAI 3% FEE LOAN	11/20/18	825,000	0	0	<p>This Rural Development funds will be used to fund the acquisition of a motel in Chadron, Nebraska. The acquisition will create 3 jobs and save 4 jobs.</p>

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NEVADA	CHEMCON SURFACE TECHNOLOGY, LLC	EET	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/08/19	0	15,979		Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in the state of Nevada with energy efficiency improvements to their operations. These project funds will be used to make energy efficiency improvements with the purchase and installation of four HVAC units and one water heater for Chemcon Surface Technology, LLC offices in Minden NV. This improvement will save the business \$4,984 a year. RBGS funding will be used to determine viability for the County to proceed with the STAR Program plan and feasibility study. If viable this would provide the county with valuable information for assessing business and economic development to Churchill County and create jobs.
NEVADA	CHURCHILL COUNTY	REOG	RBGS DEVELOPMENT GRANT	07/15/19	0	20,000		0 REAP funding will be used to replace LED lighting in Toy stores
NEVADA	ECONOMY DRUG, INC.	EET	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/20/19	0	3,850		0 Boulder City, NV. American Grant funds will be used to install a 35.4 KW roof top solar in
NEVADA	FASTOW MARK	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/28/19	0	38,078		0 Grant funding to upgrade HVAC and lighting systems for energy efficiency.
NEVADA	HMM ELY, LLC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	05/07/19	0	27,086		Funding will be used for Humboldt County to determine the viability of moving forward with
NEVADA	HUMBOLDT COUNTY	REEG	RBGS ENTERPRISE GRANTS	07/12/19	0	13,750		0 new business opportunity. If viable, the feasibility study will assist the county with this
NEVADA	INDIAN DISPUTE RESOLUTION SERVICES INC.	REEG	RBGS ENTERPRISE NATIVE AMERICAN GRANT	07/12/19	0	65,524		IDRS provides training and technical assistance to Tribes and Tribal Members to assist in current curriculums and expanding their instruction options (online, technical assistance follow-up, etc.) A minimum of 20 jobs is expected to be created as a result of this funding.
NEVADA	INDIAN DISPUTE RESOLUTION SERVICES INC.	REEG	RBGS ENTERPRISE GRANTS	07/12/19	0	19,983		IDRS provides training and technical assistance to Tribes and Tribal Members to assist in small business start-up and expansion. IDRS continually is writing new curriculum, updating current curriculums and expanding their instruction options (online, technical assistance follow-up, etc.) A minimum of 7 jobs is expected to be created as a result of this funding.
NEVADA	NEVADA SYSTEM OF HIGHER EDUCATION	REAR	RENEWABLE ENERGY DEVELOP ASSISTANCE GRANTS	03/25/19	0	100,000		0 Assistance projects for rural small business including manufacturing and agricultural projects in the 14 rural counties of Nevada as well as the rural designated areas within our
NEVADA	RURAL NEVADA DEVELOPMENT CORPORATION	REAR	DISCRETION ASSIST MICROENTERPRISE GRANTS	09/26/19	0	95,212		0 RMAP funds will be used to establish a revolving loan fund to assist small businesses with
NEVADA	SMIBANG, INC.	REAR	GUARANTEED BAYVIEW FEE LOAN	08/22/19	3,990,000	0		0 The funding is for a feasibility study for the Tribe to determine the viability of constructing a
NEVADA	SOUTH FORK BAND COUNCIL	REEG	RBGS ENTERPRISE GRANTS	07/12/19	0	36,800		0 family-style restaurant bar and grill with a gift shop on the reservation. If the proposal is
NEVADA	WELLS CITY OF	REEG	RBGS ENTERPRISE GRANTS	07/12/19	0	20,000		0 Rural Business Development grant funds will be used to establish a revolving loan fund for
NEVADA	WELLS CITY OF	REEG	RBGS ENTERPRISE GRANTS	07/12/19	0	20,000		0 the City of Wells, Nevada.
NEW HAMPSHIRE	ADAM E. MOCK & SON LOGGING & CHIPPING, LLC	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	10,300		This Rural Development investment will be used to install a 15.4KW ground-mounted solar
NEW HAMPSHIRE	BETHLEHEM REIMAGINED, INC.	REOG	RBGS ENTERPRISE GRANTS	07/19/19	0	25,000		0 program is to assist farmers, ranchers, and rural small businesses in developing renewable
NEW HAMPSHIRE	BRAEBURN LIMITED PARTNERSHIP	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/24/19	0	19,240		0 RBGS funds will be used to hire a third-party consultant to conduct a feasibility study and

Borrower or Grantee	State	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
CLOUTIER LANCASTER NEW HAMPSHIRE DEVELOPMENT, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000		03/18/19	0	\$2,250	0	The Rural Development investment will assist a rural small business purchase and install a pellet boiler. Cloutier Lancaster Development, LLC owns a historic building in downtown Keene, New Hampshire. The building has been vacant since 2017 and needs extensive improvements to make the building more energy efficient. An existing oil heating system will be replaced with a state-of-the-art Charles pellet boiler, eliminating the need to burn almost 60 tons of oil annually. This project will save approximately \$2,000 per year in heating costs. This funding program is to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
NEW HAMPSHIRE DOWNSIDE, INC.	REAP	REAP-MANO ENERGY EFF IMPROV GRANTS		07/10/19	0	28,577	0	The Rural Development investment will provide partial funding for energy efficiency improvements at the Village Store renovation project. It will assist small and emerging businesses in our community to create and support jobs. The project will enable the Village Store to renovate its historic building while maintaining its current retail sales and food preparation. In addition, the store will support work force development at a number of local and area businesses, specifically food producers and artisans.
FRANKETOWN IMPROVEMENT & NEW HAMPSHIRE HISTORICAL SOC	RREG	RBCS ENTERPRISE GRANTS		07/19/19	0	30,000	0	100% financing will be used to construct a new facility. Helping to attract tourism to the village and help create jobs. The project will also include some administrative duties and support work force development at a number of local and area businesses, specifically food producers and artisans.
NEW HAMPSHIRE FRANKLIN CITY OF	RREG	RBCS ENTERPRISE GRANTS		08/10/19	0	30,000	0	100% financing will be used to construct a new facility. Helping to attract tourism to the village and help create jobs. The project will also include some administrative duties and support work force development at a number of local and area businesses, specifically food producers and artisans.
								0 jobs will be created as a result of the project.
								The Rural Development investment will be used to install wood chip drying equipment in a semi-dry wood chip fuel (PDC). The market for Filling's PDC is concentrated in the construction of an additional location in Keene, a distressed community. This Rural Development investment will provide partial funding for energy efficiency improvements at the filling's PDC. Once fully operational, the plant is expected to produce 10,000 tons of PDC a year - enough to heat over 3,200 homes. The drying process takes about six weeks from harvest to finished product. While producing the chips, roughly one acre of forest land is protected from fire risk by removing brush and debris. The plant produces electricity (combined heat and power) while producing the chips, roughly 100 kilowatts per hour. The plant will employ three people. The project will assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
NEW HAMPSHIRE HOLLISTON LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS		07/24/19	0	\$2,903	0	This Rural Development investment will be used to install a 4.2kW roof-mounted solar array. Gregory Saunders owns the building from which he operates an appliance repair and maintenance business. The array will generate 145% of the current electrical needs, allowing overhead and allowing for future expansion. The purpose of his funding program is to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
NEW HAMPSHIRE GREGORY K. SAUNDERS	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000		05/03/19	0	10,703	0	The Rural Development investment will be used to install a 4.2 kW roof-mounted solar array. Hollister Saunders grows a variety of apples, peaches and other fruit, as well as vegetables. He uses a lot of electricity, especially during the winter months, as well as \$15,100 annually. Agriculture plays an important part in New Hampshire's economy, and investments such as this helps support local food. The purpose of this funding program is to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
HOLT BROTHERS ORCHARD NEW HAMPSHIRE PARTNERSHIP	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS		07/08/19	0	49,999	0	100% financing will be used to construct a new facility. Helping to attract tourism to the village and help create jobs. The project will also include some administrative duties and support work force development at a number of local and area businesses, specifically food producers and artisans.

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NEW HAMPSHIRE	LAKES REGION PLANNING COMMISSION	RBEG	RBGS ENTERPRISE GRANTS	07/18/19	0	30,000	0	RBEG funds will be used for site plan preparation and schematic design necessary to establish a Marketplace & Incubator serving small & emerging businesses and entrepreneurs in Carroll County, NH. The Marketplace & Incubator will serve as the primary location for business development, business incubation, business expansion, and specialized tools and equipment, and other targeted resources & services necessary for strengthening job creation, job-retention, business incubation and business growth.
		RBEG	RBGS ENTERPRISE GRANTS	07/18/19	0	24,025	0	RBEG funds will be used to provide technical assistance for community economic development, business incubation, business expansion, and business growth, and developing a marketplace that serves rural businesses, individuals, and entrepreneurs. If funded 3 jobs are expected to be created.
	MCKENZIE'S FARM, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/16/19	0	46,188	0	This Rural Development investment will be used to install a 72.5kW ground-mounted solar array, Meridian Hill Maple is expanding its operations, and the new array will provide a solar farm started more than two decades ago. The fruit and vegetables grown at the farm are sold in local markets and restaurants, and the farm is a significant part of the local food system. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/12/19	0	27,700	0	This Rural Development investment will be used to install a 53.9kW ground-mounted solar array, Meridian Hill Maple is expanding its operations, and the new array will provide a solar farm started more than two decades ago. The fruit and vegetables grown at the farm are sold in local markets and restaurants, and the farm is a significant part of the local food system. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	MT WASHINGTON VALLEY ECON COUNCIL	RMAP	MAND RURAL MICROENTERPRISE DVP ORG LOANS	05/08/19	0	0	500,000	This Rural Development investment will be used to assist small businesses by providing loans that complement the region's financial market, stabilize and diversify the region's economy for startup and expansion operations, improve the rural areas' competitive position and enhance the region's economic development, and provide the region with available and remaining of industrial parts and facilities, and provide the region with available resources to apply for grants from public and private sources.
		RMAP	MAND RURAL MICROENTERPRISE DVP ORG GRANTS	05/08/19	0	100,000	0	This Rural Development investment will be used in conjunction with a Rural Microentrepreneur Assistance Program loan to provide technical assistance to potential Rural Microentrepreneur Assistance Program loan ultimate recipients.
	MT. LIBERTY ACCOMMODATIONS, LLC	RES	MAND. RENEW ENERFY SYSTEMS GRANTS UNDER \$20,000	03/05/19	0	13,500	0	This Rural Development investment will be used to install a 16.5kW roof-mounted solar array, Meridian Hill Maple is expanding its operations, and the new array will provide a solar farm started more than two decades ago. The fruit and vegetables grown at the farm are sold in local markets and restaurants, and the farm is a significant part of the local food system. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/18/19	0	39,846	0	This Rural Development investment will be used to install a 30kW ground-mounted solar array, Meridian Hill Maple is expanding its operations, and the new array will provide a solar farm started more than two decades ago. The fruit and vegetables grown at the farm are sold in local markets and restaurants, and the farm is a significant part of the local food system. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	NE SQUAR 107 SULLIVAN STREET, LLC	RES	MAND. RENEW ENERFY SYSTEMS GRANTS UNDER \$20,000	03/05/19	0	6,840	0	This Rural Development investment will be used to install a 30kW ground-mounted solar array, Meridian Hill Maple is expanding its operations, and the new array will provide a solar farm started more than two decades ago. The fruit and vegetables grown at the farm are sold in local markets and restaurants, and the farm is a significant part of the local food system. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/18/19	0	39,846	0	This Rural Development investment will be used to install a 30kW ground-mounted solar array, Meridian Hill Maple is expanding its operations, and the new array will provide a solar farm started more than two decades ago. The fruit and vegetables grown at the farm are sold in local markets and restaurants, and the farm is a significant part of the local food system. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

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NEW HAMPSHIRE	NORTHERN BORDERS REGIONAL COMMISSION	ARC	NORTHERN BORDER REGIONAL COMMISSION	09/27/19	0	2,668,866	0	<p>This Rural Development investment will support the Northern Borders Regional Commission's work facilitating economic and community development in northern Maine, New Hampshire, Vermont, and New York. The work to be undertaken includes: economic and infrastructure development in rural communities; the creation of an Outdoor Economy; and the development of a network of trails and recreational areas. The project will also support recreation-based economies; support for the Working Communities Challenge initiative focused on innovative, community-driven economic development projects. Taken together, these efforts will create an estimated 1,000 jobs and generate an estimated \$10 million in additional dollars and will help create and save 0 hundreds of jobs across the four states.</p>
	NORTHERN BORDERS REGIONAL COMMISSION	ARC	NORTHERN BORDER REGIONAL COMMISSION	09/27/19	0	2,668,866	0	<p>RBGS Funds will be used to support small businesses in Lancaster, NH by generating resources and information needed to attract more visitors and residents to the downtown area. The project will support the development of a downtown area and the creation of a working space that would bring more people downtown during the day and appeal to visitors. The project will also support the development of a downtown area and the creation of a working space that would bring more people downtown during the day and appeal to visitors. The project will also support the development of a downtown area and the creation of a working space that would bring more people downtown during the day and appeal to visitors.</p>
	NEW HAMPSHIRE/NORTHERN FOREST CENTER INC.	RREG	RBGS ENTERPRISE GRANTS	07/18/19	0	28,875	0	<p>This Rural Development investment will be used to install a 302.4kW roof-mounted solar array. The estimated 290,000kWh produced by the array will provide all of Port City Air's energy needs. The array will be installed on the roof of the Port City Air building, which will be enough to power 26 average homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
	NEW HAMPSHIRE/NORTHERN FOREST CENTER INC.	RBOG	RBGS DEVELOPMENT GRANT	06/03/19	0	12,000	0	<p>This Rural Development investment will be used to install a 302.4kW roof-mounted solar array. The estimated 290,000kWh produced by the array will provide all of Port City Air's energy needs. The array will be installed on the roof of the Port City Air building, which will be enough to power 26 average homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
	NEW HAMPSHIRE/PORT CITY AIR, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/16/19	0	171,533	0	<p>This Rural Development investment will be used to install a 24.9kW roof-mounted solar array. Senia Enterprises, Inc. owns commercial real estate that will benefit from the array, which will be spread across two roofs. The 27,776kWh produced annually will save the company \$3,800 in revenue annually, while the benefits in the building receive reliable, consistent, and renewable energy. The project will also support the development of a downtown area and the creation of a working space that would bring more people downtown during the day and appeal to visitors.</p>
	NEW HAMPSHIRE/BLANA ENTERPRISES INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/20/19	0	20,000	0	<p>This Rural Development investment will be used to install a 24.9kW roof-mounted solar array. Senia Enterprises, Inc. owns commercial real estate that will benefit from the array, which will be spread across two roofs. The 27,776kWh produced annually will save the company \$3,800 in revenue annually, while the benefits in the building receive reliable, consistent, and renewable energy. The project will also support the development of a downtown area and the creation of a working space that would bring more people downtown during the day and appeal to visitors.</p>
	NEW HAMPSHIRE/SOLIS, INC., LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/12/19	0	27,610	0	<p>This Rural Development investment will be used to install a 24.9kW roof-mounted solar array. Senia Enterprises, Inc. owns commercial real estate that will benefit from the array, which will be spread across two roofs. The 27,776kWh produced annually will save the company \$3,800 in revenue annually, while the benefits in the building receive reliable, consistent, and renewable energy. The project will also support the development of a downtown area and the creation of a working space that would bring more people downtown during the day and appeal to visitors.</p>
NEW HAMPSHIRE	SOUTHWEST REGION PLANNING COMMISSION	RBOG	RBGS DEVELOPMENT GRANT	07/18/19	0	16,000	0	<p>RBGS Funds will be used to assist municipalities, businesses and other stakeholders in addressing economic development challenges and needs and ultimately create and support job growth. Grant funds will be used for technical assistance, which includes local community and multi-county economic development planning to be consistent with and support the goals of the New Hampshire Economic Development Plan. The project will also support the development of a downtown area and the creation of a working space that would bring more people downtown during the day and appeal to visitors.</p>

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Direct Loan Amount
NEW HAMPSHIRE	SOUTHWEST REGION PLANNING COMMISSION	RBEG	RBGS DEVELOPMENT GRANT	07/18/19	0	12,000
	NEW HAMPSHIRE SPONGE-JET, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYSTEMS GRANTS	09/09/19	0	99,820
	NEW HAMPSHIRE SUNRISE VIEW LEASING, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/24/19	0	10,057
	NEW HAMPSHIRE TEGRA EQUIPMENT, INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/03/19	0	20,000
	NEW HAMPSHIRE THE STONE CHURCH, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/07/19	0	18,130
NEW HAMPSHIRE	NEW HAMPSHIRE TOWN OF PITTSFIELD	RBEG	RBGS ENTERPRISE GRANTS	07/19/19	0	30,000
	NEW HAMPSHIRE UNION CHURCH	RBEG	RBGS ENTERPRISE GRANTS	07/19/19	0	30,000
NEW JERSEY	A. T. BUZZY FARM, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	15,966

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NEW JERSEY	ANSUYA RIVERBEND, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/26/19	0	50,000	0	The Rural Development Investment will be used to purchase and install a 90 kilowatt roof mount solar array located in Clinton, Hunterdon County, N.J., Ananya Riverbend, LLC is a small business that will generate 110-138 kilowatt hours of electricity per year replacing 110-138 kilowatt hours of electricity per year. The investment will replace 110-138 kilowatt hours of electricity per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	NEW JERSEY OM-PROMEX, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/26/19	0	60,862	0	The Rural Development Investment will be used to fund the construction of a 107.44 kilowatt ground mounted solar photovoltaic system. The solar system will generate 147,150 kilowatt hours of electricity per year, enough to power over 13 homes. This investment will replace 147,150 kilowatt hours of electricity per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	NEW JERSEY COOP BUSINESS ASSIS CORP	RMAP	DISCRETION ASSIST MICROENTERPRENERS	09/24/19	0	65,897	0	0
	NEW JERSEY ELLIJA'S PROMISE	RREG	RBGS ENTERPRISE GRANTS	07/18/19	0	35,700	0	Rural Development Funds will be used to provide eligible technical/professional assistance to at least 11 businesses in eligible areas of Burlington, Mercer, Middlesex, and Essex counties. The project will provide technical assistance and professional services to assist businesses to support the project space usage, and the procurement of local produce from NJ farmers to be used for the promotion of the program at local events.
	NEW JERSEY FOODSHED ALLIANCE, INC.	RREG	RBGS ENTERPRISE GRANTS	07/18/19	0	34,500	0	Rural Development funds will be used to improve access to preserved farmland through the purchase of farmland and the development of a foodshed. The project will provide technical assistance to the Sustainable Agricultural Enterprise (SAFE) Project will provide more affordable farmland within the State of New Jersey, and increase utilization of government-owned, deeded, and leased farmland. The project will also provide producers with on-farm technical assistance by hiring a Farm Project Manager to assist the ag producers with their projects.
	HACKETTSTOWN BUS IMPROVEMENT DIST., INC	RBOG	RBGS DEVELOPMENT GRANT	06/26/19	0	28,000	0	Rural Development funds will be used to conduct a feasibility study on the development of a public market facility that will serve residents of Hackettstown and its surrounding communities. This project will provide businesses with vendor and dining space. The project will give people the opportunity to drink, eat, meet, and shop.
	HOPEWELL VALLEY VINEYARDS, LLC	RES	MAND. RENEW EMERFY SYSTEMS GRANTS UNDER \$20,000	04/23/19	0	20,000	0	This Rural Development Investment will be used for the purchase and installation of a 33.5kW roof mount solar array to be located in Pennington, Mercer County, N.J. Hopewell Valley Vineyards, LLC, is a Winery established on May 22, 2001 that will realize \$9,358,000 in revenue from wine sales. The project will provide technical assistance to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	NEW JERSEY LUMINOUS SOLAR, LLC	RES	MAND. RENEW EMERFY SYSTEMS GRANTS UNDER \$20,000	05/23/19	0	10,671	0	This Rural Development Investment will be used for the installation of a 25.11kW roof mount solar array that will generate energy on-site for Mitzsrell Farms in Buena Vista Twp., New Jersey. Luminous Solar will own the system and sell electricity at a discounted rate to Mitzsrell Farms. The project will provide technical assistance to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	NEW JERSEY DEPARTMENT OF AGRICULTURE	RREG	RBGS ENTERPRISE GRANTS	07/26/19	0	48,800	0	This Rural Development Investment will be used to examine the feasibility of 3 models to provide N.J. livestock producers with a local indoor mobile processing facility. N.J. livestock producers will be able to process their meat in a local facility, which will significantly decrease the cost of processing for a declining agricultural industry in N.J..

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NEW JERSEY	PASTELLI RANCH, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/17/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a 60kW roof mount solar array to be located in Middlesex, Gloucester County, New Jersey. Pastelli Ranch is a livestock producer. Their projected energy savings from this project equates to approximately \$1,000 per year. The project will also provide the farm with energy security to power five (5) homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		REEG	RBGS ENTERPRISE GRANTS	07/18/19	0	30,000		Rural Development funds will be used to provide technical assistance to 10 small, independent grocers located in rural areas of Burlington, Hunterdon, Somerset, Camden, Atlantic, Cape May, and Warren Counties. The project will help the grocers become more energy efficient by providing them with information on how to evaluate their environmental footprint and plan to train grocery store managers on how to evaluate their environmental practices.
	PUTTERS THE STATE UNIVERSITY	REEG	RBGS ENTERPRISE GRANTS	07/18/19	0	30,000		This Rural Development investment will be used for the purchase and installation of a 18kW roof mount solar array to be located in Mt. Holly, Burlington County, New Jersey. Shulman Enterprises, Inc. is a small business growing facility and is located in Burlington County, New Jersey. The project will save energy electricity to power two (2) homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/18/19	0	20,000		This Rural Development investment will be used to provide occupational education, processing equipment, business incubation, and job placement for agricultural and culinary students at Sussex County Community College. The project will have a positive impact on Opportunity Zone and poverty areas in Sussex County, NJ.
	SUSSEX COUNTY COMMUNITY COLLEGE	REEG	RBGS ENTERPRISE GRANTS	07/18/19	0	50,000		This Rural Development investment will be used for the purchase and installation of a 83.22 kW solar array to be located in Sussex County, New Jersey. The project will save energy electricity to power eight (8) homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/26/19	0	45,375		Pre-construction activities for development of a business center to serve small and emerging businesses in the area of the project. The project will include the construction of a new building, removal of existing building structure, complete and survey, right-of-way and easement, complete environmental, archaeological and other clearances, complete drainage analysis for the project, and the construction of the building. The project will also include the construction of utility and building and installation of utility infrastructure.
	THE DOUGGETT CORPORATION	REEG	RBGS ENTERPRISE NATIVE AMERICAN GRANT	07/22/19	0	499,000		This Rural Development investment, through the FY2019 Rural Business Development grant, will be used (\$20,000 grant funds; \$7,827 contribution from applicant; \$10,000 in-kind from contractor/contractors and \$2,506 contribution from local bank, total: \$40,327) will be used to purchase and install a 10.5kW PV solar array to be located in the village of Angel Fire, NM. The project will apply rural resources to a strategy for year-round economic growth and sustainability for a village that now operates as a seasonal community. As this is a small business, the project will be used to provide technical assistance to the business. The project will also include the construction of the building. The project will also include the construction of utility and building and installation of utility infrastructure.
		REDOO	RBGS DEVELOPMENT GRANT	07/09/19	0	20,000		This Rural Development investment, through the FY2019 Rural Business Development grant, will be used (\$20,000 grant funds; \$7,827 contribution from applicant; \$10,000 in-kind from contractor/contractors and \$2,506 contribution from local bank, total: \$40,327) will be used to purchase and install a 10.5kW PV solar array for CA, Inc.'s insurance building. The project will realize \$1,849.00 per year in savings and will generate 14.48kWh of electricity per year equal to 0.1100% of the facilities energy and provide enough energy to power 1 home.
	NEW MEXICO	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/01/19	0	9,236		Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy-efficiency improvements to their operations. The project will include the construction of a new building, removal of existing building structure, complete and survey, right-of-way and easement, complete environmental, archaeological and other clearances, complete drainage analysis for the project, and the construction of the building. The project will also include the construction of utility and building and installation of utility infrastructure.
		REEG	RBGS ENTERPRISE NATIVE AMERICAN GRANT	07/22/19	0	499,000		This Rural Development investment, through the FY2019 Rural Business Development grant, will be used (\$20,000 grant funds; \$7,827 contribution from applicant; \$10,000 in-kind from contractor/contractors and \$2,506 contribution from local bank, total: \$40,327) will be used to purchase and install a 10.5kW PV solar array for CA, Inc.'s insurance building. The project will realize \$1,849.00 per year in savings and will generate 14.48kWh of electricity per year equal to 0.1100% of the facilities energy and provide enough energy to power 1 home.

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NEW MEXICO CONLEY'S LUMBER MILL, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000		02/28/19	0	7,897		Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 7.6kW solar array. This project will realize a \$1,857 per year in savings and will save 0.1522MWh of electricity per year (100% which is enough to power 1 home).
NEW MEXICO CLOVER HILL INSTITUTE	RREG	RCS ENTERPRISE GRANTS		07/03/19	0	34,850		This grant business through Rural Business Development Grants from \$54,850 with \$18,650 contribution) will be used to enable one person to provide technical assistance toward the collaboration, and expected merger, of two meat processing companies, in rural mid-NM, with the goal of meeting processing demands in rural NM. Technical assistance by the grantee will include financial and marketing analysis, market research, and assessments that will result in financial strategies, a financial plan, and a business plan for the collaboration of a Navajo-owned Southwest Native Meat and Western Why Custom Meats. Letter from both processing companies and users seeking the assistance immediately. It is expected that the future effect of the collaboration will be the creation of approximately 18 jobs.
NEW MEXICO FOUR PEAKS ENERGY, LLC	EEL	MAND ENERGY EFFIC IMPROV GRANTS UNDER \$20,000		05/29/19	0	20,000		Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of new LED lighting, venting and cooling system upgrade, VFD insulation upgrades, and environmental shade screen at the Camino Real Landfill Facility in Suidland Park, NM. This project will realize a \$2,000 per year in savings and will save 0.0056MWh of electricity per year equal to 98.95% of the facilities energy and provide enough energy to power 23 homes.
NEW MEXICO HEALTHY FUTURES, INC.	RREG	RCS ENTERPRISE GRANTS		07/09/19	0	6,942		This project will be the establishment and expansion of Native American rural business management and technical assistance efforts in "Taco County". This grant will provide technical assistance and training to Native American entrepreneurs, providing training for Native American business and emerging entrepreneurs, including the provision of business technical, marketing and management assistance for Tood County Native American start and craftsman. The grant is in the amount of \$33,114. With this grant the business owner could create 3 jobs in Taco County that is located in Idaho.
LIVINGSTON MAIN STREET NEW MEXICO CORPORATION	RREG	RCS ENTERPRISE GRANTS		06/25/19	0	75,900		Local innovators institute is to reduce the risk associated with starting a restaurant by providing the fundamentals in owning and managing a restaurant through hands on experience. This project will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of new interior and exterior LED lighting and energy efficient windows at the Denny's of Albuquerque, NM. Located in the South Eastern portion of New Mexico. It has the ability to create 38 jobs and save \$3 in the area.
NEW MEXICO MACARTHUR PAMELA N	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000		05/28/19	0	2,811		Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of new interior and exterior LED lighting and energy efficient windows at the Denny's of Albuquerque, NM. Located in the South Eastern portion of New Mexico. It has the ability to create 38 jobs and save \$3 in the area.
NEW MEXICO MATTHEU J JOSEPH J	EEL	MAND ENERGY EFFIC IMPROV GRANTS UNDER \$20,000		05/29/19	0	7,500		This project will be the establishment and expansion of Native American rural business management and technical assistance efforts in "Taco County". This grant will provide technical assistance and training to Native American entrepreneurs, providing training for Native American business and emerging entrepreneurs, including the provision of business technical, marketing and management assistance for Tood County Native American start and craftsman. The grant is in the amount of \$33,114. With this grant the business owner could create 3 jobs in Taco County that is located in Idaho.
NEW MEXICO MCINNIS ENTERPRISES, INC.	REAP	REAP MANDATORY RENEW ENERGY SYST		06/04/19	0	40,890		Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 54.52KW solar array for McGinnis Praterco and Rental facility. This project will realize 0.84-57% of the facilities energy and provide enough energy to power eight homes.

RBCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount
NEW MEXICO	MORA-SAN MIGUEL ELECTRIC COOPERATIVE INC	SSDPG	SMALL SOCIALLY DISADVANTAGED PRODUCER GRANT	09/16/19	0	11,780	0
	NEW MEXICO PRAMUNK HOSPITALITY, INC.	BI	GUARANTEED BAI 3% FEE LOAN	02/13/19	2,315,545	0	0
	NEW MEXICO R.L. CORDOVA, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/04/19	0	72,800	0
NEW MEXICO	RIO GRANDE COMMUNITY DEVELOPMENT CORP.	SSDPG	PERMANENT POVERTY GRANTS TO ASSIST MINORITY PRODUCERS	08/27/19	0	174,852	0
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	18,711	0
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/10/19	0	59,400	0
NEW MEXICO	SANDOVAL COUNTY	REEG	RBCS ENTERPRISE GRANTS	07/02/19	0	51,308	0

Project Description

This Rural Development investment will be used to assist Mora-San Miguel Electric Cooperative in creating a staff succession plan. This TA will be provided between 10/1/2019 and 9/30/2020 by a third party specialist. The coop is trying to strengthen its staff to be able to carry out its operations and ensure the sustainability of the coop's continued work. The rural area to be served is extremely small. Mora County has 4,881 persons; 28,393 for San Miguel County. Amount requested for the 0 training is \$11,780 (no match).

Rural Development funds will be used to purchase a Rural Comfort Inn & Suites in Truth or Consequences NM. The borrower will receive a loan in the amount of 2,315,545 from USDA RD. The motel is located at 2205 North Date St in Truth or Consequences NM and is within the boundaries of the Truth or Consequences National Monument. The motel is located in Lake State Park. Truth or Consequences is located in Central New Mexico. The loan will 0 create 5 new jobs and retain 30 jobs.

Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 97.2kW solar array for a Super 8 hotel in Santa Rosa, NM. This project will realize 0 savings and will generate 39,422kWh of electricity per year equal to (98.31%) of the 0 (94.15%) of the facilities energy and provide enough energy to power 15 homes.

This Rural Development investment will be used by a non-profit CDC to provide technical assistance to three coops (two were assisted in incorporating by this grantee): 1) an artists' cooperative in the state of New Mexico, 2) a sheepherders' coop, Tolan Lake-Nevado Nation, will receive TA in membership strategies; 3) sheepherders' coop, Tolan Lake-Nevado Nation, will receive TA in policies/procedures, decision-making, tactical marketing strategies, and quality control; 3) sheepherders' coop, Tolan Lake-Nevado Nation, will receive TA in membership strategies, mesquite or, or extensive cooperation between the sheep and beef coops in an effort to gain economies of scale, etc. The sheep and beef coops distribute within 400 miles of their ranch. All animal enhancement; the rural population to be served is 2,000, which had 0 a population of 9,502 in the 2010 census. CDC grants 74,852 with no match.

Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 22.8kW solar array for the El Rancho Motel. This project will realize \$5,122.00 per year in savings and will generate 39,422kWh of electricity per year equal to (98.31%) of the 0 facilities energy and provide enough energy to power 3 homes.

Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 79.2kW solar array for a Phillips 66 Gas Station located in Santa Rosa, NM. This project will realize \$5,122.00 per year in savings and will generate 39,422kWh of electricity per year equal to (97.45%) of the facilities energy and provide enough energy to power 11 homes.

This Rural Development investment, through the FY2019 Rural Business Development Grant, will provide technical assistance to small and emerging businesses in four rural NM communities affected by urban influence pressures: Jemez Springs, Jemez Pueblo, Redwood National Park, and Grants. The project will provide technical assistance and support to carry out innovative assistance to individual businesses, especially in tourism industry. Specialists will implement small business development curricula ground-tested by the Albuquerque Small Business Resource Collaborative. This TA is funded in a regional area and will provide technical assistance to small and emerging businesses in our large urban core (Albuquerque). Extremely skilled and experienced staff in tourism and 0 business will provide the TA.

RRCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NEW MEXICO	NEW MEXICO SGI, LLC	BI	GUARANTEED B&I 3% FEE LOAN	05/01/19	2,544,492	0	0	The Rural Development loan guarantee invested in the refinancing of debts, improvements, working capital, financing of fees, purchase of furniture, fixtures and equipment for the borrower's business. The business is the Teas Valley Lodge in Teas, NM (Teas County). The loan made by USDA Rural Development will save them jobs.
		REG	RECS ENTERPRISE GRANTS	07/02/19	0	150,000	0	USDA RD grant funds will be used for a feasibility study in Sierra County for the need of broadband in this rural area. Sierra County is in Central New Mexico with a population of 1,000 people. The study will be used for the purchase and installation of a 15-20kW solar array. Teas Veterinary Clinic provides animal healthcare in the Teas, NM area. When installed the new solar power system will save \$2,796 per year in electricity.
	NEW MEXICO SIERRA COUNTY							When installed the new solar power system will save \$2,796 per year in electricity. The study will be used for the purchase and installation of a 15-20kW solar array. Teas Veterinary Clinic provides animal healthcare in the Teas, NM area. When installed the new solar power system will save \$2,796 per year in electricity.
								When installed the new solar power system will save \$2,796 per year in electricity. The study will be used for the purchase and installation of a 15-20kW solar array. Teas Veterinary Clinic provides animal healthcare in the Teas, NM area. When installed the new solar power system will save \$2,796 per year in electricity.
	NEW MEXICO TAGS VETERINARY CLINIC, PC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER RESUR	04/15/19	0	11,021	0	The Rural Development investment will be used for the purchase and installation of three separate solar arrays totaling 86.14 kW. Wallace Holdings, a family owned property investment business, will realize \$42,336 per year in savings, and will replace 86,400kWh of electricity. The investment will be used for the purchase and installation of three separate solar arrays totaling 86.14 kW. Wallace Holdings, a family owned property investment business, will realize \$42,336 per year in savings, and will replace 86,400kWh of electricity.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/27/19	0	71,250	0	The Rural Development investment will be used for the purchase and installation of three separate solar arrays totaling 86.14 kW. Wallace Holdings, a family owned property investment business, will realize \$42,336 per year in savings, and will replace 86,400kWh of electricity.
	NEW MEXICO XENIA, LLC	BI	GUARANTEED B&I 3% FEE LOAN	09/16/19	10,000,000	0	0	The Rural Development investment will be used for the purchase and installation of three separate solar arrays totaling 86.14 kW. Wallace Holdings, a family owned property investment business, will realize \$42,336 per year in savings, and will replace 86,400kWh of electricity.
								The Rural Development investment will be used for the purchase and installation of three separate solar arrays totaling 86.14 kW. Wallace Holdings, a family owned property investment business, will realize \$42,336 per year in savings, and will replace 86,400kWh of electricity.
	NEW YORK A.N. MARTIN SYSTEMS LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/22/19	0	40,130	0	The Rural Development investment will be used for the purchase and installation of three separate solar arrays totaling 86.14 kW. Wallace Holdings, a family owned property investment business, will realize \$42,336 per year in savings, and will replace 86,400kWh of electricity.
								The Rural Development investment will be used for the purchase and installation of three separate solar arrays totaling 86.14 kW. Wallace Holdings, a family owned property investment business, will realize \$42,336 per year in savings, and will replace 86,400kWh of electricity.
	NEW YORK BERLE FARMS, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/24/19	0	6,013	0	The Rural Development investment will be used for the purchase and installation of three separate solar arrays totaling 86.14 kW. Wallace Holdings, a family owned property investment business, will realize \$42,336 per year in savings, and will replace 86,400kWh of electricity.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/27/19	0	111,250	0	The Rural Development investment will be used for the purchase and installation of three separate solar arrays totaling 86.14 kW. Wallace Holdings, a family owned property investment business, will realize \$42,336 per year in savings, and will replace 86,400kWh of electricity.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NEW YORK	CENTERS FOR AG DEV & ENTREPRENEURSHIP INC	REEG	RBGS ENTERPRISE GRANTS	07/19/19	0	88,359	0	This Rural Development investment will be used to fund distance learning programs providing technical assistance and training for small and emerging businesses. The Center for Agricultural Development and Entrepreneurship Inc has operated a Farm and Food Business Incubator throughout the Mohawk Valley and Southern Tier of NY since 2015. The Center has provided technical assistance and training for small and emerging businesses in the United States and world markets. CADE's goal is to assist 10% of NY's 35,000 farmers by 2021. Additional funding includes a \$3,541 applicant contribution, a 0 Facilitation. As a result of this investment, 7 jobs will be created.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/27/19	0	7,425	0	This Rural Development investment will be used for the purchase and installation of a 9.9 kW solar system. The system is estimated to produce 9,900 kWh per year, which is enough electricity to power 4 homes. The purpose of this funding program is to encourage small businesses to develop renewable energy systems, and in making energy efficiency improvements to their operations.
	CHITTENANGO PHYSICAL THERAPY, P.C.	REES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/01/19	0	20,000	0	This Rural Development investment will be used for the purchase and installation of a 40 kW solar system. Chittenango Barn LLC is a small business located in Chittenango, NY. Production in the greenhouse will be available year round, serving customers within a 400 mile radius, and consist of fresh, local, organic, traceable baby leaf greens. Rural Development guarantees loan funds will be received by a \$1,500,000 grant from Empire State Development as a result of this investment, 20 jobs will be created at the new facility.
		BI	GUARANTEED 84% 3% FEE LOAN	11/28/18	12,200,000	0	0	This Rural Development loan guarantee investment will be used to finance equipment purchase and construction of a new facility. The investment will be used to purchase and install a 202, kW solar array, this project will realize \$34,485 per year in savings, and will replace 23,122 kWh (81%) per year, which is enough electricity to power 21 homes.
NEW YORK	CLEARWATER ORGANIC FARMS	BI	GUARANTEED 84% 3% FEE LOAN	11/28/18	1,400,000	0	0	This Rural Development loan guarantee investment will be used to finance equipment purchase and construction of a new facility. The investment will be used to purchase and install a 202, kW solar array, this project will realize \$34,485 per year in savings, and will replace 23,122 kWh (81%) per year, which is enough electricity to power 21 homes.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/22/19	0	85,000	0	This Rural Development investment will be used to purchase two utility trail vehicles and a trail paver in order to maintain and groom 121 miles of snowmobile trails in Oneida county. Purchase of this equipment will ensure safety of the trails and a safe riding condition in winter months. The investment will be used to purchase and install a 202, kW solar array, this project will realize \$34,485 per year in savings, and will replace 23,122 kWh (81%) per year, which is enough electricity to power 21 homes.
NEW YORK	QNY SNOW TRAVELERS, INC.	REEG	RBGS ENTERPRISE GRANTS	07/26/19	0	38,900	0	This Rural Development investment will be used to purchase two utility trail vehicles and a trail paver in order to maintain and groom 121 miles of snowmobile trails in Oneida county. Purchase of this equipment will ensure safety of the trails and a safe riding condition in winter months. The investment will be used to purchase and install a 202, kW solar array, this project will realize \$34,485 per year in savings, and will replace 23,122 kWh (81%) per year, which is enough electricity to power 21 homes.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NEW YORK	COLD POINT CORPORATION	BI	BUSINESS & INDUSTRY GUARANTEED LOAN- 1%	08/13/19	3,453,000	0	0	This Rural Development loan guarantee investment will be used to build a new 30,000 sq. ft. manufacturing facility for Cold Point Corporation in Rome, NY. Cold Point is a subsidiary of the Whalen Company of Maryland and in 2017 and is moving current operations to NY, thereby increasing capacity, warehouse raw materials, and finished goods. This expansion will allow Cold Point to produce and ship more products to NY, thereby increasing sales and revenue. The existing 37 jobs. Additional funding will include an \$88,352 applicant contribution, a \$2,231,010 loan from New York Job Development Authority, a \$300,000 PILOT loan from NY State Office of General Services, and a \$300,000 loan from Mohawk Valley Economic Development Initiative, a \$300,000 loan from Mohawk Valley Economic Development District, and a 0 \$350,057 City of Rome Bonding Road Project.
NEW YORK	CORNELL COOPERATIVE EXT OF JEFFERSON COU	RBEG	RBGS ENTERPRISE GRANTS	07/30/19	0	99,094	0	This Rural Development investment will be used by the Cornell Cooperative Extension of Jefferson County to provide technical assistance and training to local agricultural producers of protein, maple, and value added dairy products in Jefferson, Lewis and St. Lawrence counties. Technical assistance workshops and on-farm demonstrations will be provided to producers. The investment will also be used to develop ready. Funding includes a \$101,033 applicant contribution. As a result of this investment, 9 0 jobs will be created by the local producers.
NEW YORK	CORNELL COOPERATIVE EXTENSION OF SLC	RBEG	RBGS ENTERPRISE GRANTS	07/25/19	0	94,466	0	This Rural Development investment will be used to provide technical assistance for light and heavy construction projects in the town of Canton NY. This technical assistance will be provided to local agricultural producers of protein, maple, and value added dairy products in Jefferson, Lewis and St. Lawrence counties. Technical assistance workshops and on-farm demonstrations will be provided to producers. The investment will also be used to develop ready. Funding includes a \$98,817 applicant contribution. As a result of this investment, 28 0 jobs will be created and 23 jobs will be saved.
NEW YORK	CORNELL COOPERATIVE EXTENSION ONEIDA CTY	RBEG	RBGS ENTERPRISE GRANTS	07/30/19	0	63,370	0	This Rural Development investment will be used to provide technical assistance for light and heavy construction projects in the town of Canton NY. This technical assistance will be provided to local agricultural producers of protein, maple, and value added dairy products in Jefferson, Lewis and St. Lawrence counties. Technical assistance workshops and on-farm demonstrations will be provided to producers. The investment will also be used to develop ready. Funding includes a \$63,370 applicant contribution. As a result of this investment, 14 0 jobs will be created and 14 jobs will be saved.
NEW YORK	COUNTY OF OSWEGO DA INC.	IRP	INTERMEDIARY RELENDING PROGRAM	03/01/19	0	0	500,000	This Rural Development investment will be used to make renewable energy improvements with the purchase and installation of a biomass boiler. The feedstock for the boiler will be hardwood scraps from the business. This project will realize \$88,743 per year in savings. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
NEW YORK	DELTA HARDWOOD FLOORING, INC.	RES	MAINT. REVIEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	16,870	0	This Rural Development investment will be used to make renewable energy improvements with the purchase and installation of a biomass boiler. The feedstock for the boiler will be hardwood scraps from the business. This project will realize \$88,743 per year in savings. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
NEW YORK	DIX, TOWN OF	ARC	ARC (APPALACHIAN REGIONAL COMMISSION GRANTS) BP	09/26/19	0	131,400	0	This Rural Development investment will be used to make renewable energy improvements with the purchase and installation of a biomass boiler. The feedstock for the boiler will be hardwood scraps from the business. This project will realize \$88,743 per year in savings. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NEW YORK	JOHNSTOWN 2 SOLAR, LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	09/16/19	1,978,145	0	0	This Rural Development loan guarantee investment will be used for the purchase and installation of a 2.78 MW solar system in Johnstown, NY. The system is estimated to produce 3,324,670 kWh per year, which is enough electricity to power 332 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
NEW YORK	KAREN A PIERCE	EEl	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	02/27/19	0	17,699	0	This Rural Development investment will be used to make energy efficiency improvements to a 62,28 sq ft home in Coxsack, NY. The project will realize \$6,220 per year in savings and will replace 225,672 kWh (93%) of energy. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
NEW YORK	KARL FAMILY FARMS, LLC	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	02/27/19	0	20,000	0	This Rural Development investment will be used to make energy efficiency improvements to a 62,28 sq ft home in Coxsack, NY. The project will realize \$6,220 per year in savings and will replace 225,672 kWh (93%) of energy. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
NEW YORK	KEMETER WINES, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/20/19	0	19,830	0	This Rural Development investment will be used to make energy efficiency improvements to a 62,28 sq ft home in Coxsack, NY. The project will realize \$6,220 per year in savings and will replace 225,672 kWh (93%) of energy. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
NEW YORK	KLUOT BROTHERS, INC.	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	05/22/19	0	110,190	0	This Rural Development investment will be used to make energy efficiency improvements to a 62,28 sq ft home in Coxsack, NY. The project will realize \$6,220 per year in savings and will replace 225,672 kWh (93%) of energy. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
NEW YORK	LE MILLENA SUPERMART RBR, LLC	BI	GUARANTEED 84 3% FEE LOAN	09/26/19	6,400,000	0	0	This Rural Development investment will be used to make energy efficiency improvements to a 62,28 sq ft home in Coxsack, NY. The project will realize \$6,220 per year in savings and will replace 225,672 kWh (93%) of energy. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
NEW YORK	LEONARD BUS SALES INC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/09/19	0	58,750	0	This Rural Development investment will be used to make energy efficiency improvements to a 62,28 sq ft home in Coxsack, NY. The project will realize \$6,220 per year in savings and will replace 225,672 kWh (93%) of energy. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
NEW YORK	LIVINGSTON 4 SOLAR, LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	09/16/19	1,954,240	0	0	This Rural Development loan guarantee investment will be used for the purchase and installation of a 2.78 MW solar system in Livingston 4 Solar, LLC. The system is estimated to produce 3,295,350 kWh per year, which is enough electricity to power 330 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
NEW YORK	MARTIN, REUBEN	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/24/19	0	20,000	0	This Rural Development investment will be used to make energy efficiency improvements to a 62,28 sq ft home in Coxsack, NY. The project will realize \$6,220 per year in savings and will replace 225,672 kWh (93%) of energy. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
NEW YORK	MOHAWK VALLEY EDGE	RREG	RBGS ENTERPRISE GRANTS	07/30/19	0	28,400	0	Implement a strategy plan for the former Ethan Allen Farm and adjacent land to continue the transformation to the Boonville Industrial District. The strategy will look to making a modern, infrastructure-rich manufacturing district to attract new business, help existing business to expand, encourage entrepreneurship and create high quality jobs in Oneida County NY

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NEW YORK	MURROCK FARMS LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/22/19	0	0	50,000	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 104 kW solar array. This project will replace 302.514 MWh (50%) per year, which is enough energy to power 30 homes. The project will also replace 107,274 kWh (42%) per year, which is enough electricity to power 3 homes.
				05/22/19	0	0	50,000	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 21 kW solar array. This project will replace \$3,307 per year in savings and will replace 24,318 MWh(61%) per year.
	NY DIGITAL DISCOUNT.COM	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/03/19	0	0	12,848	This Rural Development investment will be used to make energy efficiency improvements to small businesses in the county of Clinton, Essex, Franklin and St Lawrence, NY. The project will replace 302.514 MWh (50%) per year, which is enough energy to power 30 homes. The project will also replace 107,274 kWh (42%) per year, which is enough electricity to power 3 homes.
				05/03/19	0	0	12,848	This Rural Development investment will be used to make energy efficiency improvements to small businesses in the county of Clinton, Essex, Franklin and St Lawrence, NY. The project will replace 302.514 MWh (50%) per year, which is enough energy to power 30 homes. The project will also replace 107,274 kWh (42%) per year, which is enough electricity to power 3 homes.
	NOHLE, HAROLD W.	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	05/17/19	0	0	34,158	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 21 kW solar array. This project will replace \$3,307 per year in savings and will replace 24,318 MWh(61%) per year.
				05/17/19	0	0	34,158	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 21 kW solar array. This project will replace \$3,307 per year in savings and will replace 24,318 MWh(61%) per year.
	NORTH COUNTRY CHAMBER OF COMMERCE	RBEG	RBGS ENTERPRISE GRANTS	07/26/19	0	0	28,000	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 21 kW solar array. This project will replace \$3,307 per year in savings and will replace 24,318 MWh(61%) per year.
				07/26/19	0	0	28,000	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 21 kW solar array. This project will replace \$3,307 per year in savings and will replace 24,318 MWh(61%) per year.
	NORTH STAR ORCHARDS, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/16/19	0	0	62,528	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 21 kW solar array. This project will replace \$3,307 per year in savings and will replace 24,318 MWh(61%) per year.
				05/16/19	0	0	62,528	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 21 kW solar array. This project will replace \$3,307 per year in savings and will replace 24,318 MWh(61%) per year.
NEW YORK	NY BALDWIN II LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	12/11/18	2,785,000	0	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 21 kW solar array. This project will replace \$3,307 per year in savings and will replace 24,318 MWh(61%) per year.
				12/11/18	2,785,000	0	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 21 kW solar array. This project will replace \$3,307 per year in savings and will replace 24,318 MWh(61%) per year.
	NY THOMPSON II LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	04/08/19	2,050,000	0	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 21 kW solar array. This project will replace \$3,307 per year in savings and will replace 24,318 MWh(61%) per year.
				04/08/19	2,050,000	0	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 21 kW solar array. This project will replace \$3,307 per year in savings and will replace 24,318 MWh(61%) per year.
	OTSQUAGO LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	0	8,000	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 21 kW solar array. This project will replace \$3,307 per year in savings and will replace 24,318 MWh(61%) per year.
				05/29/19	0	0	8,000	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 21 kW solar array. This project will replace \$3,307 per year in savings and will replace 24,318 MWh(61%) per year.
	PANKE, FARMS	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/24/19	0	0	185,470	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 21 kW solar array. This project will replace \$3,307 per year in savings and will replace 24,318 MWh(61%) per year.
				09/24/19	0	0	185,470	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 21 kW solar array. This project will replace \$3,307 per year in savings and will replace 24,318 MWh(61%) per year.
	PEAK PERFORMANCE RDI, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/06/19	0	0	4,582	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 21 kW solar array. This project will replace \$3,307 per year in savings and will replace 24,318 MWh(61%) per year.
				03/06/19	0	0	4,582	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 21 kW solar array. This project will replace \$3,307 per year in savings and will replace 24,318 MWh(61%) per year.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NEW YORK	SEYMOUR, DARRELL	EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/07/19	0	4,808		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of an energy efficient Reverse Osmosis machine. Seymour Maple is a family owned maple operation in Henrieville, NY. This project will improve the energy efficiency of the business by purchasing a Reverse Osmosis machine. The purpose of this funding program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		BI	BUSINESS & INDUSTRY GUARANTEED LOAN - 1%	03/19/19	2,844,500	0		This Rural Development loan guarantee investment will be used to finance the purchase of a car wash in Queensbury, NY and refinance existing borrower debt. The debt refinancing will improve cash flow, allow the business to make capital improvements, and save 7 jobs.
	SOUTHERN TIER COMMUNITY HEALTH CENTER	BI	BUSINESS & INDUSTRY GUARANTEED LOAN - 1%	06/07/19	1,500,000	0		This Rural Development loan guarantee investment will be used to refinance Kingsfolk, MA interim debt that financed leasehold improvements to the borrower's medical office building in Olean, NY. Southern Tier Community Health Center Network, Inc operates four medical offices in Olean, NY. Kingsfolk, MA is a medical office building located in Olean, NY. The improvements will assist the borrower in providing much needed medical care in an underserved area in the southern tier of New York in addition to supporting 92 jobs. Additional funding is provided by The US Department of Health and Human Services, in the form of a \$1 million Health Resources & Services Administration grant.
		EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/24/19	0	7,204		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of an energy efficient Reverse Osmosis machine. Kingsfolk, MA is a medical office building located in Olean, NY. The improvements will assist the borrower in providing much needed medical care in an underserved area in the southern tier of New York in addition to supporting 92 jobs. Additional funding is provided by The US Department of Health and Human Services, in the form of a \$1 million Health Resources & Services Administration grant.
	NEW YORK: SPSWME, INC.	REAP	REAP-MAND-ENERGY EFF IMPROV GRANTS	09/29/19	0	16,127		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of an energy efficient Reverse Osmosis machine. SPSWME, INC. is a family owned maple operation in Henrieville, NY. This project will improve the energy efficiency of the business by purchasing a Reverse Osmosis machine. The purpose of this funding program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		REDOG	RBGS DEVELOPMENT GRANT	07/25/19	0	13,200		This Rural Development investment will be used to fund a feasibility study to explore a multi-county chamber of commerce. The St. Lawrence County Chamber of Commerce in Canton, NY is a non-profit organization that provides economic development services to the region. The purpose of this funding program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	TICONDEROGA REVITALIZATION ALLIANCE, INC.	REDOG	RBGS DEVELOPMENT GRANT	07/25/19	0	13,200		This Rural Development investment will be used to fund a feasibility study to explore a multi-county chamber of commerce. The St. Lawrence County Chamber of Commerce in Canton, NY is a non-profit organization that provides economic development services to the region. The purpose of this funding program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		REDOG	RBGS DEVELOPMENT GRANT	07/25/19	0	13,200		This Rural Development investment will be used to fund a feasibility study to explore a multi-county chamber of commerce. The St. Lawrence County Chamber of Commerce in Canton, NY is a non-profit organization that provides economic development services to the region. The purpose of this funding program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	TIOGA CO. REAP LLC	REDOG	RBGS DEVELOPMENT GRANT	07/25/19	0	13,200		This Rural Development investment will be used to fund a feasibility study to explore a multi-county chamber of commerce. The St. Lawrence County Chamber of Commerce in Canton, NY is a non-profit organization that provides economic development services to the region. The purpose of this funding program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		REDOG	RBGS DEVELOPMENT GRANT	07/25/19	0	13,200		This Rural Development investment will be used to fund a feasibility study to explore a multi-county chamber of commerce. The St. Lawrence County Chamber of Commerce in Canton, NY is a non-profit organization that provides economic development services to the region. The purpose of this funding program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NORTH CAR	ANDREWS TRUSS, INC.	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	07/31/19	0	26,573	0	The Rural Development Investment will be used for the purchase and installation of a 47.86 kW solar array at the facility of Andrews Truss, Inc. This project will generate 65,375 kWh per year and realize \$7,445 of saving per year. The purpose of this funding program is to provide rural communities with access to renewable energy systems, and in making energy efficiency improvements to their operations.
	ASHVILLE BUNCOMBE COUNTY CHRISTIAN M	REOG	RSCS DEVELOPMENT GRANT	06/27/19	0	37,500	0	Project will provide funding for a feasibility study to determine whether or not a commercial solar array is viable for the community. The project will be used for the purchase and installation of a 7.522 MW solar system. Bay Branch Solar, LLC is a newly created entity for the purpose of generating electricity in Chocowinity, NC. The system is estimated to produce 12,040,000 kWh per year, which is enough electricity to power 1,118 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	NORTH CAR BAY BRANCH SOLAR, LLC	BI	GUARANTEED BI 3% FEE LOAN	06/11/19	585,000	0	0	This Rural Development loan guarantee investment will be used for the purchase and installation of a 520 MW solar system. The system is estimated to produce 12,040,000 kWh per year, which is enough electricity to power 1,118 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	NORTH CAR BAY BRANCH SOLAR, LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	05/29/19	5,000,000	0	0	This Rural Development loan guarantee investment will be used to provide financing and purchase of equipment, provide working capital and cover all soft costs associated with the loan. The company, Best Sand and Gravel (BS&G), started as a small sand and gravel business in 1973 and has since grown into a large business serving the construction industry in the Wayne County, NC area. The business was incorporated in 1973, and at that time, it evolved into a clearing, grading and site development business servicing both Carolina and parts of Virginia and South Carolina. Best Sand and Gravel (BS&G) currently operates two plants in Wayne County, North Carolina, and a gravel processing plant in Wayne County, North Carolina. The business is currently in the process of expanding its operations and is looking for additional funding to support its growth.
NORTH CAR	BEST SAND & GRAVEL, INC.	BI	GUARANTEED BI 3% FEE LOAN	02/19/19	3,960,000	0	0	This Rural Development investment fund will be used to provide grant to Blue Ridge EMC, a rural utilities program borrower to provide economic development. The initial project will provide funding to the ultimate recipient, the Colletteville Volunteer Fire & Rescue (CVFR), to establish a revolving loan fund to help purchase a new fire truck, pump, and other equipment. The New River Fire & Rescue has 30 trained firefighters including 3 firefighters, 1 EMT, and 1 fire chief. The project will be used to provide financing and purchase of equipment, provide working capital and cover all soft costs associated with the loan. The company, Best Sand and Gravel (BS&G), started as a small sand and gravel business in 1973 and has since grown into a large business serving the construction industry in the Wayne County, NC area. The business was incorporated in 1973, and at that time, it evolved into a clearing, grading and site development business servicing both Carolina and parts of Virginia and South Carolina. Best Sand and Gravel (BS&G) currently operates two plants in Wayne County, North Carolina, and a gravel processing plant in Wayne County, North Carolina. The business is currently in the process of expanding its operations and is looking for additional funding to support its growth.
	BLUE RIDGE NORTH CAR ELECTROMEMBERSHIP CORP.	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	05/14/19	0	230,000	0	This Rural Development investment fund will be used to provide grant to Blue Ridge EMC, a rural utilities program borrower to provide economic development. The initial project will provide funding to the ultimate recipient, the Colletteville Volunteer Fire & Rescue (CVFR), to establish a revolving loan fund to help purchase a new fire truck, pump, and other equipment. The New River Fire & Rescue has 30 trained firefighters including 3 firefighters, 1 EMT, and 1 fire chief. The project will be used to provide financing and purchase of equipment, provide working capital and cover all soft costs associated with the loan. The company, Best Sand and Gravel (BS&G), started as a small sand and gravel business in 1973 and has since grown into a large business serving the construction industry in the Wayne County, NC area. The business was incorporated in 1973, and at that time, it evolved into a clearing, grading and site development business servicing both Carolina and parts of Virginia and South Carolina. Best Sand and Gravel (BS&G) currently operates two plants in Wayne County, North Carolina, and a gravel processing plant in Wayne County, North Carolina. The business is currently in the process of expanding its operations and is looking for additional funding to support its growth.
	BLUE RIDGE NORTH CAR ELECTROMEMBERSHIP CORP.	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	06/25/19	0	300,000	0	This Rural Development investment fund will be used to provide grant to Blue Ridge EMC, a rural utilities program borrower to provide economic development. The initial project will provide funding to the ultimate recipient, the Colletteville Volunteer Fire & Rescue (CVFR), to establish a revolving loan fund to help purchase a new fire truck, pump, and other equipment. The New River Fire & Rescue has 30 trained firefighters including 3 firefighters, 1 EMT, and 1 fire chief. The project will be used to provide financing and purchase of equipment, provide working capital and cover all soft costs associated with the loan. The company, Best Sand and Gravel (BS&G), started as a small sand and gravel business in 1973 and has since grown into a large business serving the construction industry in the Wayne County, NC area. The business was incorporated in 1973, and at that time, it evolved into a clearing, grading and site development business servicing both Carolina and parts of Virginia and South Carolina. Best Sand and Gravel (BS&G) currently operates two plants in Wayne County, North Carolina, and a gravel processing plant in Wayne County, North Carolina. The business is currently in the process of expanding its operations and is looking for additional funding to support its growth.
	BLUE RIDGE NORTH CAR ELECTROMEMBERSHIP CORP.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/01/19	0	62,186	0	This Rural Development investment fund will be used to provide grant to Blue Ridge EMC, a rural utilities program borrower to provide economic development. The initial project will provide funding to the ultimate recipient, the Colletteville Volunteer Fire & Rescue (CVFR), to establish a revolving loan fund to help purchase a new fire truck, pump, and other equipment. The New River Fire & Rescue has 30 trained firefighters including 3 firefighters, 1 EMT, and 1 fire chief. The project will be used to provide financing and purchase of equipment, provide working capital and cover all soft costs associated with the loan. The company, Best Sand and Gravel (BS&G), started as a small sand and gravel business in 1973 and has since grown into a large business serving the construction industry in the Wayne County, NC area. The business was incorporated in 1973, and at that time, it evolved into a clearing, grading and site development business servicing both Carolina and parts of Virginia and South Carolina. Best Sand and Gravel (BS&G) currently operates two plants in Wayne County, North Carolina, and a gravel processing plant in Wayne County, North Carolina. The business is currently in the process of expanding its operations and is looking for additional funding to support its growth.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NORTH CAROLINA	BLUE STREAM ENERGY NORTH CAR CORPORATION	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a 33 kW photovoltaic system to generate electricity in Midwestern, NC. The system is estimated to generate 46,721 kWh and \$3,021 per year. The purpose of this funding program is to assist farmers, ranchers, and businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		BI	GUARANTEED BAI 3% FEE LOAN	10/29/18	175,000	0		This Rural Development loan guarantee investment will be used to construct a 7.0 MW (DC) ground mounted fixed tilt solar array located in Person County, NC. This will be a forced in place investment. The project will generate 15,000 kWh per year and will save 15 year Power Purchase Agreement (PPA). It is anticipated that the system will generate 10,372,004 kWh per year, which equates to the power used in 959 average sized households. With this funding, 3 jobs will be created.
	NORTH CAR BRISCO APPAREL CO., INC.	REAP	REAP-MAND RENEW ENERGY SYS UNGT COMBO GUAR	07/31/19	0	162,125		This Rural Development investment will be used for the purchase and installation of a 410 kW solar array. Brisco Apparel Co., Inc. a custom embroidery manufacturer, will utilize \$53,680 per year in savings, and will replace 734,250 kWh (75%) per year. This project will save enough electricity to power 88 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		REAP	REAP-MAND RENEW ENERGY SYS UNGT COMBO GUAR	08/15/19	324,250	0		This Rural Development investment will be used for the purchase and installation of a 410 kW solar array. Brisco Apparel Co., Inc. a custom embroidery manufacturer, will utilize \$53,680 per year in savings, and will replace 734,250 kWh (75%) per year. This project will save enough electricity to power 88 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
NORTH CAROLINA	NORTH CAR EBYRD FARMS, INC. NORTH CAR CAPE HATTERAS OYSTER INC	EEL BI	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/29/19	0	15,817		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a center pivot irrigation system. Scott Byrd is the owner of Ebyrd Farms, a 1,000 acre farm in Dare County, NC. The project will save 15,817 kWh per year and will replace 78,249 kWh (78%) per year, which is enough electricity to power 7 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		RCOG	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/09/19	235,000	0		
	NORTH CAR CAROLINA COMMON ENTERPRISE	RCOG	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/19/19	0	200,000		
		BI	GUARANTEED BAI 3% FEE LOAN	03/27/19	500,000	0		This Rural Development loan guarantee investment will be used to provide working capital and to purchase equipment. The company, Carolina Ground Service Equipment, Inc. (CGSE) is in New Bern, NC and was incorporated in 2003, and serves 21000 customers. The company is a leading manufacturer and distributor of ground support equipment in the world to corporate flight departments, airlines, military, and general aviation. CGSE buys and sells ground support equipment, tooling, aircraft parts and overall ground servicing equipment. With this funding, ten jobs will be created, and eight jobs saved.
NORTH CAROLINA	CAROLINA GROUND SERVICE NORTH CAR EQUIPMENT, INC.	BI	GUARANTEED BAI 3% FEE LOAN	03/27/19	500,000	0		This Rural Development loan guarantee investment will be used to provide working capital and to purchase equipment. The company, Carolina Ground Service Equipment, Inc. (CGSE) is in New Bern, NC and was incorporated in 2003, and serves 21000 customers. The company is a leading manufacturer and distributor of ground support equipment in the world to corporate flight departments, airlines, military, and general aviation. CGSE buys and sells ground support equipment, tooling, aircraft parts and overall ground servicing equipment. With this funding, ten jobs will be created, and eight jobs saved.
		BI	GUARANTEED BAI 3% FEE LOAN	03/27/19	500,000	0		This Rural Development loan guarantee investment will be used to provide working capital and to purchase equipment. The company, Carolina Ground Service Equipment, Inc. (CGSE) is in New Bern, NC and was incorporated in 2003, and serves 21000 customers. The company is a leading manufacturer and distributor of ground support equipment in the world to corporate flight departments, airlines, military, and general aviation. CGSE buys and sells ground support equipment, tooling, aircraft parts and overall ground servicing equipment. With this funding, ten jobs will be created, and eight jobs saved.
	CAROLINA GROUND SERVICE NORTH CAR EQUIPMENT, INC.	BI	GUARANTEED BAI 3% FEE LOAN	03/27/19	500,000	0		This Rural Development loan guarantee investment will be used to provide working capital and to purchase equipment. The company, Carolina Ground Service Equipment, Inc. (CGSE) is in New Bern, NC and was incorporated in 2003, and serves 21000 customers. The company is a leading manufacturer and distributor of ground support equipment in the world to corporate flight departments, airlines, military, and general aviation. CGSE buys and sells ground support equipment, tooling, aircraft parts and overall ground servicing equipment. With this funding, ten jobs will be created, and eight jobs saved.
		BI	GUARANTEED BAI 3% FEE LOAN	03/27/19	500,000	0		This Rural Development loan guarantee investment will be used to provide working capital and to purchase equipment. The company, Carolina Ground Service Equipment, Inc. (CGSE) is in New Bern, NC and was incorporated in 2003, and serves 21000 customers. The company is a leading manufacturer and distributor of ground support equipment in the world to corporate flight departments, airlines, military, and general aviation. CGSE buys and sells ground support equipment, tooling, aircraft parts and overall ground servicing equipment. With this funding, ten jobs will be created, and eight jobs saved.

State	Borrower or Grantee	Program	Program Description	Date Origined	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NC	NORTH CAR FRESH AIR ENERGY XXXIII, LLC	BI	GUARANTEED 584.3% FEE LOAN	08/27/19	7,750,000	0		The Rural Development loan guarantees investment will be used for the purchase of machinery and equipment to a solar power generation facility. The Fresh Air Energy XXXIII, LLC, is a 20.60 MW (DC) solar generation facility located in Granby of Currituck County, NC. The facility will generate 30,790,537 kWh per year, which is enough electricity to power 2,548 homes. The facility will also generate 100,000 lbs of solar panels per year. The facility will also use a rural feed rate PPA. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	17,253		The Rural Development investment will be used for the purchase and installation of a 25.3kW solar array. GeoDynamics, a research firm specializing in seafloor mapping and geophysical surveys, will realize \$2,875 per year in savings, and will replace 31,949 kWh of electricity. The investment will also generate 100,000 lbs of solar panels per year. The investment will also use a rural feed rate PPA. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	GLENN PENDLETON FAMILY NORTH CAR FARM, INC.	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/31/19	0	30,821		The Rural Development loan guarantees investment will be used to make energy efficiency improvements to a family owned farming operation in Elizabeth City, NC. This project will realize \$3,682 per year in savings and will replace 41,331 kWh (11%) per year, which is enough electricity to power 3,434 homes. The investment will also generate 100,000 lbs of solar panels per year. The investment will also use a rural feed rate PPA. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	5,561		The Rural Development investment will be used for the purchase and installation of an 8.3 kW solar array on the farming operation of Growing for Good, LLC. This project will generate 11,670 kWh per year and realize \$817 of saving per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations.
	NORTH CAR GROWING FOR GOOD, LLC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/31/19	0	30,821		The Rural Development investment will be used for the purchase and installation of an 8.3 kW solar array on the farming operation of Growing for Good, LLC. This project will generate 11,670 kWh per year and realize \$817 of saving per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	5,561		The Rural Development investment will be used for the purchase and installation of an 8.3 kW solar array on the farming operation of Growing for Good, LLC. This project will generate 11,670 kWh per year and realize \$817 of saving per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations.
	NORTH CAR H. W. CULP LUMBER COMPANY	EEL	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/22/19	0	12,171		The Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting for a large multipurpose building. H.W. Culp Lumber Company will realize \$1,000 per year in savings and will replace 133,276 kWh (71%) per year, which is enough electricity to power 13 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		RELG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	05/13/19	0	233,300		The Rural Development investment fund will be used to provide grants to Halifax EMC, a rural utilities program borrower to provide economic development. The initial project will provide funding to the ultimate recipient, the local Volunteer Fire Department (VFD). The project will replace the outdated pump that no longer adheres to safety standards. The new truck will help the department maintain their current ISO rating and increase the ability to protect its rural residents.
	HALIFAX ELECTRIC MEMBERSHIP NORTH CAR CORP.	RELG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	05/13/19	0	233,300		The Rural Development investment fund will be used to provide grants to Halifax EMC, a rural utilities program borrower to provide economic development. The initial project will provide funding to the ultimate recipient, the local Volunteer Fire Department (VFD). The project will replace the outdated pump that no longer adheres to safety standards. The new truck will help the department maintain their current ISO rating and increase the ability to protect its rural residents.
		RELG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	12/18/18	0	202,500		The Rural Development investment fund will be used to provide grants to Halifax EMC, a rural utilities program borrower to provide economic development. The initial project will provide funding to the ultimate recipient, the local Volunteer Fire Department (VFD). The project will replace the outdated pump that no longer adheres to safety standards. The new truck will help the department maintain their current ISO rating and increase the ability to protect its rural residents.

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NORTH CAR	HAZE GRAY VINEYARDS, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	8,300		This Rural Development investment will be used for the purchase and installation of a 10.71 kW solar system. The system is estimated to produce 14,242 kWh per year and realize \$1,424 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.
		REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	04/02/19	1,654,000	0		This Rural Development loan guarantee investment will be used for the purchase and installation of a 2.322 MW DC solar system. HCE Moore LLC is a newly created entity for the purpose of this funding program. The system is estimated to produce 3,488,588 kWh per year, which is enough electricity to power 323 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.
	NORTH CAR HICKORY SOLAR LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	09/26/19	5,000,000	0		This Rural Development loan guarantee investment will be used for the purchase of machinery and equipment for a solar power generation facility. The Hickory Solar, LLC is a newly created entity for the purpose of this funding program. The system is estimated to produce 1,918,000 kWh per year, which is enough electricity to power 102 homes. It will sell all its power to Duke Energy Progress with a 12-year fixed rate PPA. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.
		BI	GUARANTEED 84% 3% FEE LOAN	09/27/19	1,300,000	0		This Rural Development loan guarantee investment will be used for the purchase of machinery and equipment for a solar power generation facility. The Hickory Solar, LLC is a newly created entity for the purpose of this funding program. The system is estimated to produce 1,918,000 kWh per year, which is enough electricity to power 102 homes. It will sell all its power to Duke Energy Progress with a 12-year fixed rate PPA. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.
NORTH CAR	HOPEWELL FRIENDS SOLAR LLC	BI	GUARANTEED 84% 3% FEE LOAN	11/14/18	700,000	0		This Rural Development loan guarantee investment will be used to assist farmers, ranchers and rural small businesses in making energy efficiency improvements to their operations. The investment will be used for the purchase and installation of a 1.45 MWdc 10-acre utility-scale ground mounted solar array located in Randolph County, NC. This will be a record in solar array that will sell all its power on contract to North Carolina Electric Membership Corporation with a 15-year PPA. This project will generate 2,230,051 kWh, which is enough electricity to power 207 homes.
NORTH CAR	HORNWOOD, INC.	EEl	MANUS ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/29/19	0	19,704		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting throughout the facility. J.C. Steele & Sons, Inc. is a newly created entity for the purpose of this funding program. The system is estimated to produce 19,704 kWh per year in savings and will replace 247,503 kWh (59%) per year, which is enough electricity to power 23 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.
NORTH CAR	J.C. STEELE & SONS, INC.	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/31/19	0	46,510		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting throughout the facility. J.C. Steele & Sons, Inc. is a newly created entity for the purpose of this funding program. The system is estimated to produce 46,510 kWh per year in savings and will replace 559,853 kWh (84%) per year, which is enough electricity to power 42 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.
NORTH CAR	KATHLEEN SOLAR LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	11/29/18	4,675,000	0		This Rural Development loan guarantee investment will be used for the purchase and installation of a 6.88 MW solar system. Kathleen Solar, LLC is a newly created entity for the purpose of generating electricity in Fagway/Virginia, NC. The system is estimated to produce 11,229 kWh per year in savings and will replace 142,424 kWh (84%) per year, which is enough electricity to power 102 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NORTH CAROLINA	NORTH CAROLINA NOTREE LAKE, LLC	BI	GUARANTEED 5% 3% FEE LOAN	04/22/19	10,000,000	0	0	<p>This Rural Development loan investment will be used to construct a six-story, 120-room The Hilton by Hilton in Mooresville, NC. The hotel will be located off Exit 31 along Interstate 77 approximately 30 miles from the Charlotte Douglas International Airport. The by-Hilton, the hotel's new 120-room hotel will be constructed on a 100-acre site. The hotel will include a restaurant and a lobby, a fitness center, a business center, a lounge area, a game room and a lounge area. Mooresville is the home of numerous NASCAR teams and over 600 small and large area. Mooresville is the home of numerous NASCAR teams and over 600 small and large area. Mooresville is the home of numerous NASCAR teams and over 600 small and large area.</p>
	NORTH CAROLINA LEGACY BIOGAS, LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	12/07/18	5,000,000	0	0	<p>This Rural Development investment will be used for the purchase and installation of a 4.2 MW anaerobic digester system. Legacy Biogas, LLC is a newly created entity for the purposes of generating biogas in Fremont, NC. The system is estimated to produce 10,000 cubic feet of biogas per day. The system is estimated to produce 10,000 cubic feet of biogas per day. The system is estimated to produce 10,000 cubic feet of biogas per day.</p>
	NORTH CAROLINA LUPKA, JOHN D.	RES	MAND RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	13,242	0	<p>This Rural Development investment will be used for the purchase and installation of a 20.7 MW solar array for a nursery farm in Rural Hill, NC, owned by John P. Lipka. This project will generate 29,073 kWh and realize \$3,024 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and small businesses in making energy efficiency improvements to their operations.</p>
	NORTH CAROLINA LITTLE GUATEMALA, LLC	EI	MAND ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/29/19	0	17,235	0	<p>This Rural Development investment will be used to make energy efficiency improvements to the interior construction and equipment for a resource center in Spruce Pine, NC serving entrepreneurs. The resource center is a small business incubator and is located in the heart of the town of Spruce Pine, NC. The resource center is a small business incubator and is located in the heart of the town of Spruce Pine, NC.</p>
NORTH CAROLINA	NORTH CAROLINA LAND COMMUNITY COLLEGE	RIEG	RBGS ENTERPRISE GRANTS	07/15/19	0	250,000	0	<p>This Rural Development investment will provide funding for interior construction and equipment for a resource center in Spruce Pine, NC serving entrepreneurs. The resource center is a small business incubator and is located in the heart of the town of Spruce Pine, NC. The resource center is a small business incubator and is located in the heart of the town of Spruce Pine, NC.</p>
	NORTH CAROLINA MCCOLLUM, JR., BOBBY E	EI	MAND ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/29/19	0	18,247	0	<p>This Rural Development investment will be used to make energy efficiency improvements to the interior construction and equipment for a resource center in Spruce Pine, NC serving entrepreneurs. The resource center is a small business incubator and is located in the heart of the town of Spruce Pine, NC. The resource center is a small business incubator and is located in the heart of the town of Spruce Pine, NC.</p>
	NORTH CAROLINA MCT HOLDINGS 2, LLC	RES	RENEWABLE ENERGY SYSTEMS - GUAR LOAN	05/09/19	4,155,000	0	0	<p>This Rural Development investment will be used to make energy efficiency improvements to the interior construction and equipment for a resource center in Spruce Pine, NC serving entrepreneurs. The resource center is a small business incubator and is located in the heart of the town of Spruce Pine, NC. The resource center is a small business incubator and is located in the heart of the town of Spruce Pine, NC.</p>

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NORTH CAR	MCT HOLDINGS 3, LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS	05/09/19	4,218,750	0	0	This Rural Development loan guarantee investment will be used for the acquisition of a 6.437 MW(DC) solar system. MCT Holdings 3, LLC is a newly created entity which will be acquiring the electrical generating facility in St. Pauli, NC. The facility will sell all its power to Duke Energy Carolinas on a 15-year PPA. The system is estimated to produce 10,270,000 kWh per year, which is enough electricity to power 831 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS	05/09/19	3,277,500	0	0	
	MCT HOLDINGS 4, LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS	05/09/19	3,817,500	0	0	This Rural Development loan guarantee investment will be used for the purchase and installation of a 5.85 MW Photovoltaic Solar System. The project is located in Warren County, NC. The system will sell power to Duke Power. This project will generate 7,868,575 kWh per year, which is enough electricity to power 643 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS	05/09/19	3,817,500	0	0	
	PHILIP W. MOORE, JR.	RES	MANU. RENEW ENERFY SYSTEMS GRANTS UNDER S201A	05/22/19	0	7,312	0	This Rural Development investment will be used for the purchase and installation of a 6.9 kW solar array on the family farm of Philip W. Moore. The project will generate 14,620 kWh per year and realize \$1,316 of saving per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		BI	GUARANTEED BAI 3% FEE LOAN	11/14/18	1,675,000	0	0	
	MOUNTAIN VALLEY'S ROAD COUNCIL, INC.	IRP	INTERMEDIARY RELENDING PROGRAM	09/09/19	0	0	750,000	Rural Development funds will be used to provide low-interest loans to public and non-profit organizations to related for business and community development. The project areas include Alleghany, Avery, Burke, Caldwell, Caswell, Cherokee, Cleveland, Graham, Guilford, Jones, Madison, McDowell, Mitchell, Polk, Rutherford, Swain, Transylvania, Watauga, Wilkes, and Yancey. This funding will provide for six businesses located in Randolph County, NC. This will be a forced in solar array that will sell all its power on contract to North Carolina Electric Membership Corporation with a 10-year PPA. This project will generate 4,938.551 kWh, which is enough electricity to power 453 houses.
		RMAP	DISCRETION ASSIST MICROENTERPRENERS	09/24/19	0	107,354	0	
	NATURAL CAPITAL INVESTMENT FUND INC	REAR	RENEWABLE ENERGY DEVP ASSISTANCE GRANTS	03/22/19	0	100,000	0	This Rural Development investment will be used by the grantee in cooperation with three additional RCBs to provide renewable energy development assistance to farmers, ranchers, and rural small businesses in 30 counties in North Carolina. The project areas include Alleghany, Avery, Burke, Caldwell, Caswell, Cherokee, Cleveland, Graham, Guilford, Jones, Madison, McDowell, Mitchell, Polk, Rutherford, Swain, Transylvania, Watauga, Wilkes, and Yancey. This funding will provide for six businesses located in Randolph County, NC. This will be a forced in solar array that will sell all its power on contract to North Carolina Electric Membership Corporation with a 10-year PPA. This project will generate 4,938.551 kWh, which is enough electricity to power 453 houses.
		RMAP	DISCRETION ASSIST MICROENTERPRENERS	09/24/19	0	50,851	0	
NORTH CAR	MCKELSON SOLAR LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS	11/29/18	4,880,000	0	0	This Rural Development investment will be used for the purchase and installation of a 7.11 MW solar system. Nickelson Solar, LLC is a newly created entity for the purposes of generating electricity in Walston, NC. The system is estimated to produce 10,270,000 kWh per year, which is enough electricity to power 831 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS	11/29/18	4,880,000	0	0	

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NORTH CAR	NORTH CAR PIEDMONT EMC	REDLG	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	06/05/19	0	0	376,000	This Rural Development Investment fund will be used to provide grant to Piedmont EMC, a rural utilities program borrower to provide economic development. The project will provide funding to the ultimate recipient, Timberlake VFD to establish a revolving loan fund to help purchase a new fire truck. The new fire truck pump will replace the aged 1988 PWC pump. The project will also provide funding to the ultimate recipient, the State of NC Department of Insurance Office of State Fire Marshall Response Ratings requirements to maintain its ISO ratings. The Timberlake VFD responded to over 600 calls in 2018. The project will provide funding to the department to purchase a new fire truck and to the department to increase call volume and servicing the community.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	12,360	0	This Rural Development Investment will be used for the purchase and installation of a 20.7 kW solar array on the family farm of Charles E. Raby. The project will generate 13,765 kWh per year and realize \$2,580 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	NORTH CAR PINESAGE SOLAR FARM, LLC	BI	GUARANTEED BAI 3% FEE LOAN	11/14/18	4,330,000	0	0	This Rural Development loan guarantee investment will be used to assist farmers, ranchers and rural small businesses in developing renewable energy systems. Project funds will be used for the purchase and installation of a 8.26 MWdc 38-acre 38-acre ground mounted solar array on the family farm of Charles E. Raby. The project will generate 13,765 kWh per year and realize \$2,580 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	7,625	0	This Rural Development loan guarantee investment will be used for the purchase and installation of a 3.01 MW solar system. Red Todd 4451 Buffalo Road, LLC is a newly created entity for the purposes of generating electricity in Salina, NC. The system is estimated to produce 4,707,000 kWh per year, which is enough electricity to power 437 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	NORTH CAR LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	11/29/18	1,085,000	0	0	This Rural Development loan guarantee investment will be used for the purchase and installation of a 2.97 MW solar system. Red Todd 5840 Buffalo Road, LLC is a newly created entity for the purposes of generating electricity in Salina, NC. The system is estimated to produce 4,707,000 kWh per year, which is enough electricity to power 437 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	11/29/18	2,210,000	0	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting. Repolytex, LLC is an existing business located in Madison, NC that processes electronic plastic into a raw product. This project will realize \$30,843 per year in savings and will replace 285,316 kWh (85% per year, which is enough electricity to power 255 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
NORTH CAR	NORTH CAR REPOLYTEX, LLC	EEl	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/29/19	0	18,065	0	

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NORTH CAR. MEMBERSHIP CORP.	POANOKE ELECTRIC NORTH CAR. MEMBERSHIP CORP.	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	12/18/18	0	139,166		This Rural Development Investment fund will be used to replace a new fire truck for the Poanoke EMC. The initial loan will be made to the City of Roanoke Rapids to assist in the purchase of five public safety and utility vehicles for the Roanoke Rapids Police Department's Pro-Active Community Engagement (PACE) Team, a law enforcement task force that provides crime prevention services to the community. The PACE Team is made up of 11 individuals, a Captain, Lieutenant, four investigators, two narcotics agents, and evidence custodian, and two officers. The PACE Team will be used to provide grant to Roanoke EMC, a rural utilities program borrower to provide economic development. The initial project will provide funding to the ultimate recipient, the Garysburg Volunteer Fire Department (GVFD) to purchase a 2019 Rosenbauer Pumper fire truck. The GVFD is a volunteer fire department that will be purchasing a 2019 Rosenbauer Pumper fire truck, with a 1000-gallon tank and pump capacity of 1,250 gpm, and with seating capacity for a five-man cab. The GVFD will also be purchasing associated equipment to meet current NFPA standards.
		REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	05/13/19	0	300,000		This Rural Development loan guarantee investment will be used for the purchase and installation of a 7.13 MW solar system. Shalier Solar, LLC is a newly created entity for the purpose of providing solar energy to the community. The project will generate 10,300,000 kWh per year, which is enough electricity to power 966 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	NORTH CAR. SHELTER SOLAR, LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	03/06/19	4,925,000	0		This Rural Development investment will be used for the purchase and installation of an 9.9 MW solar array on the farming operation of Seth Soleseebe. The project will generate 14,487 kWh per year, which is enough electricity to power 1,244 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	7,375		This Rural Development investment fund will be used to provide grant to South River EMC, a rural utilities program borrower to provide economic development. The initial project will provide funding to the ultimate recipient, the Town of Spring Lake, to construct a second fire station to better serve the Manchester area, which the Spring Lake Fire and Rescue Department is currently operating. The project will generate 10,300,000 kWh per year, which is enough electricity to power 966 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	NORTH CAR. SPRING HOPE SOLAR 3, LLC	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	09/10/19	0	0	1,000,000	This Rural Development loan guarantee investment will be used for the purchase of machinery and equipment for a solar power generation facility. The Spring Hope Solar 3, LLC, a solar generation facility located in Nash County, NC will generate 108,500,000 kWh per year, which is enough electricity to power 9,375 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	09/26/19	5,000,000	0		This Rural Development loan guarantee investment will be used for the purchase of machinery and equipment for a solar power generation facility. The Spring Hope Solar 3, LLC, a solar generation facility located in Nash County, NC will generate 108,500,000 kWh per year, which is enough electricity to power 9,375 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	NORTH CAR. SPRING HOPE SOLAR 3, LLC	BI	GUARANTEED BIL 3% FEE LOAN	09/26/19	836,000	0		This Rural Development loan guarantee investment will be used for the purchase of machinery and equipment for a solar power generation facility. The Spring Hope Solar 3, LLC, a solar generation facility located in Nash County, NC will generate 108,500,000 kWh per year, which is enough electricity to power 9,375 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NORTH CAR	STALLINGS, JR., JAMES A	EI	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/29/19	0	18,273	0	This Rural Development Investment will be used to make energy efficiency improvements with the purchase and installation of center pivot irrigation system. James Stallings has a soybean, corn, and cotton farm operation located near Beville, NC. This project will realize \$18,273 per year in savings by using the center pivot irrigation system. The project will also install solar panels to power 9 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/31/19	0	11,264	0	This Rural Development Investment will be used to make energy efficiency improvements with the purchase and installation of center pivot irrigation system. Stony Fork Farms, Inc. operates a hog farm located near Four Oaks, NC. This project will realize \$1,689 per year in savings by using the center pivot irrigation system. The project will also install solar panels to power 12 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	TOWN OF TABOR CITY	REEG	REOS ENTERPRISE GRANTS	07/15/19	0	250,000	0	This Rural Development Investment will provide funding for construction of a new train depot building in downtown Tabor City. This project is part of a master plan that has several improvements throughout the downtown area including street improvements, construction of a new train depot building, and a new train depot building. Tabor City will partner with R. J. Corbett Carolina Line to provide a train 0 decoration from Conway, SC into Tabor City.
		RES	MAKUS-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	7,653	0	This Rural Development Investment will be used for the purchase and installation of a 7.9 kW solar array on the farm's operation of Thatchmore Farm, LLC. This project will generate 11,271 kWh per year and realize \$1,161 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
NORTH CAR	THATCHMORE FARM, INC.	REAP	REAP-MAND REPAIR ENERGY SYSTEMS GRANTS	02/09/19	1,827,000	0	0	This Rural Development Investment will be used for the purchase and installation of a 2.564 MWdc (1,598 MWac) Photovoltaic Solar System. The project is located on a 14.5-acre lease site in Robeson County, NC. The system will sell power to Robeson County, NC. The project will generate 3,505,708 kWh per year and realize \$450,802 per year in savings. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		REDG	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	09/10/19	0	0	1,000,000	This Rural Development Investment fund will be used to provide loan funds Tideland EMC, a rural utilities program borrower to provide economic development. The ultimate recipient, Tideland Electric, will use the loan funds to purchase and install a new power line to a seafood restaurant along the waterfront in Beaufort, NC. The restaurant will have specialized state-of-the-art equipment that will ensure good working conditions for employees and better-quality seafood for Neeman's Seafood clients.
	TRI-COUNTY EMC	REDG	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	05/13/19	0	0	90,000	This Rural Development Investment fund will be used to provide loan funds Tri-County EMC, a rural utilities program borrower to provide economic development. The initial project will provide funding to the ultimate recipient, the Sandy Bottom Volunteer Fire Department (SBVFD), to establish a revolving loan fund to help purchase a new fire truck. The fire department will use the loan funds to purchase a new fire truck. The project will help the fire department keep up with the demands of its fire district. The SBVFD fire department consists of 30-35 members.
		REDG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	05/13/19	0	300,000	0	This Rural Development Investment fund will be used to provide grant to Tri-County EMC, a rural utilities program borrower to provide economic development. The ultimate recipient, Sandy Bottom Volunteer Fire Department (SBVFD), will use the grant funds to purchase a new fire truck. The fire department will use the loan funds to purchase a new fire truck. The project will help the fire department keep up with the demands of its fire district. The SBVFD fire department consists of 30-35 members.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NORTH CAR	TRICOUNTY OFFICE SUPPLY, INC. RES	MAND	RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	15,787	0	<p>This Rural Development investment will be used for the purchase and installation of a 25.5 kW solar array at this office supply building of Tri-County Office Supply, Inc. This project will generate 32,355 kWh and \$4,461 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.</p>
	NORTH CAR TRIANGLE STORAGE 1, LLC.	BI	GUARANTEED BAI 3% FEE LOAN	03/27/19	5,000,000	0	0	<p>This Rural Development loan guarantee investment will be used to provide financing for the construction of a multi-story self-storage facility and provide working capital and cover all working capital needs of Triangle Storage 1, LLC. The facility will be located in Raleigh, NC in 2017. The multi-story storage facility will be in Holly Springs, NC. The building will be 89,700 square feet, three stories and a basement, with 576 climate-controlled units ranging from 10 to 120 square feet. The facility will be located on a 10-acre site. The units will be all interior and accessed by ramps, carports and elevators. With this funding, two 0 jobs will be created.</p>
	TROTTERS SEWING COMPANY	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/31/19	0	40,752	0	<p>This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting and HVAC systems. Trotters Sewing Co., Inc. is an existing business located in Raleigh, NC. The company is a family-owned business and will replace 487,421 kWh (33%) per year, which is enough electricity to power 45 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.</p>
	NORTH CAR TROY LUMBER COMPANY	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/31/19	0	29,226	0	<p>This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting. Troy Lumber Company is an existing saw mill located in Raleigh, NC. The company is a family-owned business and will replace 411,843 kWh (70%) per year, which is enough electricity to power 38 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.</p>
	UNIVERSITY OF NORTH CAROLINA	REQ	RBGS ENTERPRISE GRANTS	07/24/19	0	38,354	0	<p>This Rural Development investment funds will be used to provide technical assistance to two businesses, a series of workshops to support Latino-owned businesses and an asset development workshop in rural NC.</p>
	UNIVERSITY OF NORTH CAROLINA	REQ	RBGS DEVELOPMENT GRANT	07/24/19	0	75,000	0	<p>This Rural Development investment fund will be used to provide funding for marketing. The harbor town project is a regional effort to transform the five towns of Elizabeth City, Hertford, Edenton, Plymouth and Columbus, NC into a tourist destination. The marketing process will include the development of a marketing plan, the creation of a website, the development of the Albemarle Sound. The marketable identity of this regional tourist attraction will be 0 history, Arts and Nature, all of which define the collective tourism assets of the towns.</p>
	VALDESE ECONOMIC	IRP	INTERMEDIARY RELEIGNING PROGRAM	04/01/19	0	0	750,000	<p>This Rural Development investment will be used to provide business loans to public and non-profit organizations to assist for business and community development. Valdeese Economic Development Investment Company will provide loans to the Alexander, Burke, Caldwell, Catawba, Hoke, Lenoir, Randolph, Rutherford, and McDowell county area with the goal of creating jobs and economic development. The program will be managed and administered by job bases in the textile and furniture industries. With this funding, 10 jobs will be created and 10 jobs saved.</p>
	NORTH CAR DEVELOPMENT INVESTMENT	RMAP	DISCRETION ASSIST MICROENTERPRENERS	09/24/19	0	59,111	0	<p>This Rural Development investment funds will be used to establish a working loan fund to provide financial assistance for microbusinesses in the five county service area.</p>
	NORTH CAR VENUS HOSPITALITY JOE, LLC.	BI	GUARANTEED BAI 3% FEE LOAN	08/19/19	10,000,000	0	0	<p>This Rural Development loan investment will be used to construct a 4-story, 95-room, Holiday Inn Express in Lumberton, NC. The hotel chain targets rate-sensitive guests by offering a variety of room types, including suites, and amenities such as complimentary breakfast, technology. Amenities will include a fitness center, an indoor pool, guest laundry, and meeting rooms. The hotel will be located off Exit 22 of Interstate 85, which has a constant flow of travelers. The hotel will create 32 jobs for the area.</p>

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NORTH CAR VIOLET SOLAR, LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS	GUAR	12/07/18	5,000,000	0	0	This Rural Development loan guarantee investment will be used for the purchase and installation of a 7.5 MW solar system, Warren Solar Farm, LLC is a newly created entity for the purpose of generating electricity in Mt. Pleasant, NC. The system is estimated to produce 11,097,000 kWh per year, which is enough electricity to power 1,000 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
				06/11/19	435,000	0	0	This Rural Development loan guarantee investment will be used for the purchase and installation of a 7.5 MW solar system, Warren Solar Farm, LLC is a newly created entity for the purpose of generating electricity in Mt. Pleasant, NC. The system is estimated to produce 12,100,000 kWh per year, which is enough electricity to power 1,240 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
				05/29/19	5,000,000	0	0	This Rural Development loan guarantee investment will be used for the purchase and installation of a 6.855 MWdc (4.988 MWac) Photovoltaic Solar System. The project is located on a 75-acre lease site in Warren County, NC. The system will sell power to Duke Energy Carolinas under a 20-year power purchase agreement (PPA) for a total of \$450,064,111 kWh. This project will generate 11,911,860 kWh which will power 1,102 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
				02/09/19	4,940,000	0	0	This Rural Development loan guarantee investment will be used to provide permanent financing for a 6.25 MW (dc) Photovoltaic Solar Array in Wake County, NC. This is a 75-acre leased in utility scale solar facility with ground mounted tracking system. The facility will sell power to Duke Energy Carolinas under a 20-year power purchase agreement (PPA). The system will generate 10,240,000 kWh per year, which equates to the power used in 947 homes in Wake County, NC. Two jobs will be created for the area. Under a Live Oak Banking Agreement, NC.
NORTH CAR WISE ACRES CORPORATION	RES	MAND. RENEW ENERFY SYSTEMS GRANTS	UNDER \$20,000	05/29/19	0	6,876	0	This Rural Development investment will be used for the purchase and installation of a 6.2 MW solar array on the farming operation of Wise Acres Corporation. This project will generate 3,297 kWh per year and realize \$1,116 of saving per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
				07/24/19	0	\$6,000	0	Project will assist business in Vannoy, Mitchell, Avery, McDowell and Madison counties in NC by providing a grant to the business. The grant will be used to purchase and install solar panels on the farm of Appalachian Ancient Grains
NORTH CAR ZELDA HOLDINGS, LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS	GUAR	03/06/19	1,700,000	0	0	This Rural Development loan guarantee investment will be used for the purchase and installation of a 7.5 MW solar system, Warren Solar Farm, LLC is a newly created entity for the purpose of generating electricity in Mt. Pleasant, NC. The system is estimated to produce 11,097,000 kWh per year, which is enough electricity to power 1,000 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
								This Rural Development loan guarantee investment will be used for the purchase and installation of a 1.811 MWdc Photovoltaic Solar System. The project is located on a 12-acre lease site in Handberg County, NC. The project will be a ground mounted system (1000000 Watts) and will generate 2,241,688 kWh per year. The project will be financed by a 10-year PPA with an effective power purchase price of \$47.50/MWh. The project will generate 3,241,688 kWh, which will power 300 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy projects and to assist them in making energy efficiency improvements to their operations.
	NORTH CAROLINA HOLDINGS, LLC	BI	GUARANTEED 841 3% FEE LOAN	03/15/19	250,000	0	0	
	ADAMS COUNTY DEVELOPMENT NORTH DAKOTA CORP	REBS	REBS ENTERPRISE REAP ZONE GRANTS	08/07/19	0	150,000	0	This Rural Development investment will be used to assist a new, small business by purchasing restaurant and bowling equipment to reopen a new dining option and recreational facility in Hettinger, ND. The project is anticipated to create 3 new jobs.
	EDWARDS COUNTY DEVELOPMENT NORTH DAKOTA CORPORATION	REBS	REBS BUSINESS OPPORTUNITY REAP ZONE GRANTS	08/06/19	0	21,756	0	This Rural Development investment will be used to assist a new, small business by purchasing restaurant and bowling equipment to reopen a new dining option and recreational facility in Hettinger, ND. The project is anticipated to create 3 new jobs.
	NORTH DAKOTA C & T MOEN FARMS, INC.	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	09/19/19	0	69,800	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a more energy efficient grain dryer. C & T Moen Farms, Inc. operates a family farm, raising small grains near Lakota, ND. This project will replace electricity to power 48 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	NORTH DAKOTA CAPITAL ELECTRIC COOPERATIVE	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	09/19/19	0	47,750	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of new LED security lighting leased to members. Capital Electric Cooperative is a member-owned electric utility serving 10,000 customers in North Dakota. The project will replace electricity to power 20 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	NORTH DAKOTA CONSOLIDATED TELCOM	REDUG	RURAL ECONOMIC DEVELOPMENT LOANS (TELEPHONE)	06/10/19	0	0	1,000,000	This Rural Development investment will be used to renovate a former grocery store building into a new healthcare clinic in Lemmon, South Dakota. West River Health Services serves approximately 6,000 patients per year. The current clinic facility does not have handicap accessible restrooms, and the current clinic facility does not have handicap accessible restrooms. The project will replace electricity to power 20 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	NORTH DAKOTA FEIKEN, DENNIS	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/22/19	0	36,871	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a more energy efficient grain dryer. Dennis Feiken operates a family farm, raising small grains near Lakota, ND. This project will replace electricity to power 34 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	NORTH DAKOTA FUGLEBERG FARMS	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/22/19	0	64,429	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a more energy efficient grain dryer. Fugleberg Farms operates a family farm, raising small grains near Hope, ND. This project will replace electricity to power 113 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NORTH DAKA	HANKINSON RENEWABLE ENERGY, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/22/19	0	250,000		This Rural Development investment will be used for the purchase and installation of a newly expanded heat recovery system for a 140 MCFV ethanol production facility. Hankinson Renewable Energy has been in operation since 2009 and utilizes corn to produce ethanol. The project will increase the facility's energy efficiency and reduce greenhouse gas emissions by 100,000 pounds per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
								This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of new LED lighting at its office and plant facilities in Oakley, ND. Harris Machine Company operates as a family owned welding, machining, and assembly business. The project will increase the facility's energy efficiency and reduce greenhouse gas emissions by 100,000 pounds per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	NORTH DAKA HARRIS MACHINE COMPANY	EEl	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$25,000	03/29/19	0	19,835		This Rural Development investment will be used to purchase equipment and renovate a building to establish a workforce development training center. The project will assist with the purchase and installation of new LED lighting at its office and plant facilities in Oakley, ND. Harris Machine Company operates as a family owned welding, machining, and assembly business. The project will increase the facility's energy efficiency and reduce greenhouse gas emissions by 100,000 pounds per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		RREG	RBGS ENTERPRISE REAP ZONE GRANTS	08/07/19	0	114,000		This Rural Development investment will be used to purchase equipment and renovate a building to establish a workforce development training center. The project will assist with the purchase and installation of new LED lighting at its office and plant facilities in Oakley, ND. Harris Machine Company operates as a family owned welding, machining, and assembly business. The project will increase the facility's energy efficiency and reduce greenhouse gas emissions by 100,000 pounds per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
NORTH DAKA	HETTINGER AREA CHAMBER OF COMMERCE	RREG	RBGS ENTERPRISE REAP ZONE GRANTS	08/06/19	0	41,000		This Rural Development investment will be used to purchase equipment and renovate a building to establish a workforce development training center. The project will assist with the purchase and installation of new LED lighting at its office and plant facilities in Oakley, ND. Harris Machine Company operates as a family owned welding, machining, and assembly business. The project will increase the facility's energy efficiency and reduce greenhouse gas emissions by 100,000 pounds per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		RREG	RBGS ENTERPRISE REAP ZONE GRANTS	08/06/19	0	41,000		This Rural Development investment will be used to purchase equipment and renovate a building to establish a workforce development training center. The project will assist with the purchase and installation of new LED lighting at its office and plant facilities in Oakley, ND. Harris Machine Company operates as a family owned welding, machining, and assembly business. The project will increase the facility's energy efficiency and reduce greenhouse gas emissions by 100,000 pounds per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		RREG	RBGS ENTERPRISE REAP ZONE GRANTS	08/07/19	0	27,000		This Rural Development investment will be used to purchase equipment and renovate a building to establish a workforce development training center. The project will assist with the purchase and installation of new LED lighting at its office and plant facilities in Oakley, ND. Harris Machine Company operates as a family owned welding, machining, and assembly business. The project will increase the facility's energy efficiency and reduce greenhouse gas emissions by 100,000 pounds per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
NORTH DAKA	JAMESTOWNSTUTSMAN DEVELOPMENT CORP.	RREG	RBGS ENTERPRISE GRANTS	07/22/19	0	63,300		This Rural Development investment will be used to help finance capacity building training to stimulate local economies through the support of start-up ventures and rural small businesses. The project will increase the facility's energy efficiency and reduce greenhouse gas emissions by 100,000 pounds per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		EEl	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$25,000	05/28/19	0	20,000		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a more energy efficient grain dryer. Shawan Knudson operates a family farm, raising small grains near Clifford, ND. The project will realize \$10,207 per year in savings and will replace 166,640 kWh (48%) per year, which is enough to power a 100,000 sq. ft. home for a year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NORTH DAKOTA	NORTH DAKOTA AGASSZ RDC	RMAP	DISCRETION ASSIST MICROENTERPRENEURS	09/24/19	0	0	31,337	This Rural Development investment will be used to provide technical assistance and training to rural microentrepreneurs and microenterprises.
	LEEDS ECONOMIC DEVELOPMENT	REEG	RBGS ENTERPRISE REAP ZONE GRANTS	08/05/19	0	150,000	0	This Rural Development investment will be used to construct a building to be used as a childreels daycare facility in Leeds, ND. The city of Leeds has a severe shortage of daycare providers with no open space within the city limits. The building will be used to provide a safe and secure environment for children. The project is strongly supported by the community as there will also be an approximate \$150,000 applicant contribution to the project. The project is anticipated to create 4 new jobs.
	NORTH DAKOTA LEONARDITE PRODUCTS LLC	BI	GUARANTEED 84% 3% FEE LOAN	05/30/19	2,536,608	0	0	This Rural Development loan guarantee investment will be used to finance the rebuilding and equipping of the Leonardite Products, LLC facility in Williston, ND. The investment will be used to purchase new equipment and materials for the facility. The investment will be used to purchase new equipment and materials for the facility. The project will create 12 new jobs.
	UNTON INDUSTRIAL	REEG	RBGS ENTERPRISE GRANTS	07/25/19	0	46,600	0	This Rural Development investment will be used to help finance technical assistance for creating and executing a market strategy to assist Plains Mobile, Inc. located in Union, ND. The investment will be used to purchase new equipment and materials for the facility. The investment will be used to purchase new equipment and materials for the facility. The project will create 12 new jobs.
	NORTH DAKOTA MINOT STATE UNIVERSITY	REOG	RBGS DEVELOPMENT GRANT	07/25/19	0	22,000	0	This Rural Development investment will be used to help finance a feasibility study to assess the potential for a new business in Minot and the surrounding rural counties of Bottineau, Burke, McHenry, Montpelier, and Ward. The feasibility study will assess the scope of the investment and the potential for a new business in Minot and the surrounding rural counties of Bottineau, Burke, McHenry, Montpelier, and Ward. The investment will be used to purchase new equipment and materials for the facility. The investment will be used to purchase new equipment and materials for the facility. The project will create 12 new jobs.
	NORTH DAKOTA MONDAY PORTABLES, LLC	BI	GUARANTEED 84% 3% FEE LOAN	11/19/18	3,115,000	0	0	This Rural Development investment will be used to provide technical assistance to a business in Minot, ND. The investment will be used to purchase new equipment and materials for the facility. The investment will be used to purchase new equipment and materials for the facility. The project will create 12 new jobs.
	ND ASSOCIATION OF RURAL	ROGS	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/11/19	0	200,000	0	This Rural Development investment will be used to provide technical assistance to a business in Minot, ND. The investment will be used to purchase new equipment and materials for the facility. The investment will be used to purchase new equipment and materials for the facility. The project will create 12 new jobs.
	OYATE COMMUNITY DULPINT	RMAP	DISCRETION ASSIST MICROENTERPRENEURS	09/24/19	0	84,155	0	This Rural Development investment will be used to provide technical assistance to a business in Minot, ND. The investment will be used to purchase new equipment and materials for the facility. The investment will be used to purchase new equipment and materials for the facility. The project will create 12 new jobs.
	OYATE COMMUNITY DULPINT	REEG	RBGS ENTERPRISE GRANTS	07/26/19	0	31,100	0	This Rural Development investment will be used to provide technical assistance to a business in Minot, ND. The investment will be used to purchase new equipment and materials for the facility. The investment will be used to purchase new equipment and materials for the facility. The project will create 12 new jobs.
	OYATE COMMUNITY DULPINT	REOG	RBGS DEVELOPMENT GRANT	07/26/19	0	22,000	0	This Rural Development investment will be used to provide technical assistance to a business in Minot, ND. The investment will be used to purchase new equipment and materials for the facility. The investment will be used to purchase new equipment and materials for the facility. The project will create 12 new jobs.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
NORTH DAKOTA	PETERSON, MICHAEL	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	09/19/19	0	49,825		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a more energy efficient grain dryer. Michael Peterson operates a family farm, raising small grains near Finley, ND. This project will realize energy efficiency improvements to power 21 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/20/19	0	6,065		This Rural Development investment will be used for the purchase and installation of a direct energy efficiency improvement to a home owned and operated by Michael Peterson. The project will realize energy efficiency improvements to power 11 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	SAUVAGEAU, JOE	EEl	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/28/19	0	20,000		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a more energy efficient grain dryer. Joe Sauvageau operates a family farm, raising small grains near Ellendale, ND. This project will realize energy efficiency improvements to power 11 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	09/19/19	0	87,420		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a more energy efficient grain dryer. Donald Schrader operates a family farm, raising small grains near Adrian, ND. This project will realize energy efficiency improvements to power 49 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	STEFFES, CALVIN	EEl	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/28/19	0	20,000		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a more energy efficient grain dryer. Calvin Steffes operates a family farm, raising small grains near Lakota, ND. This project will realize energy efficiency improvements to power 19 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		EEl	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/28/19	0	20,000		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a more energy efficient grain dryer. James Tiede operates a family farm, raising small grains near Ellendale, ND. This project will realize energy efficiency improvements to power 37 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	NATIONS RESEARCH GROUP	RBOG	RBGS BUSINESS OPPORTUNITY REAP ZONE GRANTS	08/01/19	0	51,577		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a more energy efficient grain dryer. The project will examine the infrastructure, skilled labor needs, market analysis and projected return on investment for the commercial greenhouse.
		RBOG	RBGS BUSINESS OPPORTUNITY REAP ZONE GRANTS	08/01/19	0	51,577		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a more energy efficient grain dryer. The project will examine the infrastructure, skilled labor needs, market analysis and projected return on investment for the commercial greenhouse.
	TURTLE MT. BAND OF CHIPPEWA	RBOG	RBGS ENTERPRISE REAP ZONE GRANTS	08/01/19	0	109,821		This Rural Development investment will be used to provide technical assistance through training, workshops, and hands-on-technical assistance to entrepreneurs that will result in the creation of new emerging businesses to improve the economy on the Turtle Mountain Reservation. The project will include micro and small business workshops that will provide an entrepreneurship training program. The project is anticipated to assist 20 entrepreneurs.
		RBOG	RBGS ENTERPRISE REAP ZONE GRANTS	08/01/19	0	109,821		This Rural Development investment will be used to provide technical assistance through training, workshops, and hands-on-technical assistance to entrepreneurs that will result in the creation of new emerging businesses to improve the economy on the Turtle Mountain Reservation. The project will include micro and small business workshops that will provide an entrepreneurship training program. The project is anticipated to assist 20 entrepreneurs.

RBCS FY2019 Obligations

RBKS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
OHIO	COMMUNITY ACTION	RWAP	DISCRETION ASSIST MICROENTERPRENERS	09/26/19	0	0	12,719	0
OHIO	CULTIVATE	RBEQ	RBKS ENTERPRISE GRANTS	07/20/19	0	0	69,248	The project will use funds to enhance the business incubator technical assistance services provided by the business incubator in the area. The project will also provide technical assistance to other economic development agencies. They aim to create 4 and save 10 jobs.
OHIO	DULTS, ERIC & COMMUNITY DEVELOP INSTITUTE	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/15/19	0	0	5,000	This Rural Development investment will be used for the purchase and installation of a 6.2 MW solar array. Eric Ditts is a family-run grain farm and production of maple syrup that has been in the family for over 100 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO		RWAP	DISCRETION ASSIST MICROENTERPRENERS	09/27/19	0	0	91,259	0
OHIO	ECONOMIC DEVELOPMENT & FINANCE ALLIANCE	BI	GUARANTEED 88.3% FEE LOAN	05/17/19	1,296,000	0	0	EDFA owns and operates warehousing space and manufacturing space in Dover and New Market, Ohio. The project will use funds to enhance the business incubator technical assistance services provided by the business incubator in the area. EDFA also provides fulfillment services for the 0 area businesses alleviating this responsibility from the manufacturers.
OHIO	ENCOMPASS-E LLC	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	07/23/19	0	0	77,500	This Rural Development investment will be used for the purchase and installation of a 334,480 kWh (90%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Ohio. The business will use a savings of \$56,861 per year in savings, and will replace 334,480 kWh (90%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	FEHVIEW MEADOWS LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/19/19	0	0	8,517	This Rural Development investment will be used for the purchase and installation of an 14.52kW solar array. Fehview Meadows is an event space called The Barn that will realize \$2,237 per year in savings, and will generate 16,895 kWh per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	FEINSTERMAKER FARMS, INC.	REAP	REAP MAND ENERGY EFF IMPROV GRANTS	07/23/19	0	0	24,000	This Rural Development investment will be used for the purchase and installation of solar array for two locations 44.55kw and 47.86kw for energy savings for their hog barns. Zach Guinn of G&O Livestock and Grain owns a farming operation that raises hogs at its facility in Lepel, Ohio. The project will realize \$24,514 per year in savings, and will reduce electric energy consumption by 14,520 kWh per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	G & G GRAIN AND LIVESTOCK LLC	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	07/23/19	0	0	48,800	This Rural Development investment will be used for the purchase and installation of a 20.1kW solar array. Gary Bach and Deborah Jochlin-Bach own a family-run grain farm. This solar array will realize \$2,008 per year in savings, and will replace 15,617 kWh (100%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	GARY W. BACH & DEBORAH L. JOCHLIN-BACH	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/15/19	0	0	6,482	0

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
OHIO	GEIGER, TIMOTHY	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/23/19	0	0	49,839	This Rural Development investment will be used for the purchase and installation of a 89.7 kW solar array. The acquisition will save 25 jobs. The total is located in an area that meets the rural poverty target strategy and is in a Solar Force county. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	GROW HIGHLAND COUNTY	REEG	RBGS ENTERPRISE GRANTS	07/31/19	0	0	34,199	The grant will focus on the support of, and assistance to small businesses in Highland County. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This involves matching grants with 0 volunteers who have expertise in the area needed by the client.
OHIO	HP REAL ESTATE HOLDINGS, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/23/19	0	0	42,200	This Rural Development investment will be used for the purchase and installation of a 78.5kW solar array. The acquisition will save 25 jobs. The total is located in an area that meets the rural poverty target strategy and is in a Solar Force county. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The project will save enough electricity to power nearly 8 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	J & R FARMS LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/11/19	0	0	8,443	This Rural Development investment will be used for the purchase and installation of a 26.6kW solar array. J & R Farms is a com, soybean, and wheat farming operation that will use the solar array to power its operations. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	JANVAT INVESTMENTS, INC.	BI	GUARANTEED BI 3% FEE LOAN	11/20/18	4,525,000	0	0	This Rural Development loan guarantee investment will be used to acquire a Holiday Inn Express in Cambridge, Guernsey County, OH. The acquisition will save 25 jobs. The total is located in an area that meets the rural poverty target strategy and is in a Solar Force county.
OHIO	K & K & E ENTERPRISES, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/23/19	0	0	49,975	This Rural Development investment will be used to make renewable energy improvements with the purchase and installation of a 139.86kw solar array. K&K&E Enterprises owns a chicken operation in Alliance, Ohio. This project will realize \$19,588 per year in savings and will replace 88,100 kWh (91%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	KAHLE BROS. FARMS	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/23/19	0	0	41,345	This Rural Development investment will be used for the purchase and installation of a 66kW solar array. Kahle Bros Farms owns and operates a grain operation and realize \$12,760 per year in savings, and will replace 88,100 kWh (91%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	KAUTILVA BERNSHIRE HOTEL, LLC BI	BI	GUARANTEED BI 3% FEE LOAN	02/19/19	2,324,000	0	0	This Rural Development investment will be used for the purchase and installation of a 100kW solar array. Kautilva Bernshire Hotel, LLC is a hotel operation and realize \$1,002 per year in savings, and will replace 7,314 kWh (79%) per year of the farm's energy consumption. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	KIRACOFE, JAMES	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/15/19	0	0	4,344	This Rural Development investment will be used for the purchase and installation of a 66kW solar array. Christopher Kiracofe owns several businesses including trucking business, a farm, and a construction business. The acquisition will realize \$1,002 per year in savings, and will replace 88,366 kWh (57%) per year of the business's energy consumption. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	LAUKHUF, CHRISTOPHER M.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/15/19	0	0	20,000	This Rural Development loan guarantee investment will be used to acquire a sand quarry in Howard, Kne County, OH. The acquisition will save 9 jobs with better than average wages and benefits to continue in a rural rural community.
OHIO	LEISTER LEGACY LIMITED	BI	GUARANTEED BI 3% FEE LOAN	11/28/18	2,320,000	0	0	

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
OHIO	MATTHEWS, JEFFREY C	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/22/19	0	26,356		This Rural Development investment will be used to make energy efficiency improvements to the existing 10,000 sq ft building owned and operated by the Matthews family. The building operation that grows oilseeds, grains and livestock at its facility in Ohio City, OH. This project will realize \$2,563 per year in savings, and will reduce electric energy consumption by 14,440 kWh per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations
OHIO	MEDINA HUNTINGTON R.E. GROUP II LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/22/19	0	31,418		This Rural Development investment will be used for the purchase and installation of a 148kW solar array and a 300,000 bu capacity solar thermal array. Medina Huntington R.E. Group II owns and operates an assisted living memory care facility in Medina, OH. The solar array will generate the equivalent of 12,045 therms of natural gas. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations
OHIO	MEDINA HUNTINGTON R.E. GROUP	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/22/19	0	31,418		This Rural Development investment will be used for the purchase and installation of a 148kW solar array and a 300,000 bu capacity solar thermal array. Medina Huntington R.E. Group owns and operates an assisted living memory care facility in Medina, OH. The solar array will generate the equivalent of 12,045 therms of natural gas. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations
OHIO	MOORE MARCUS L	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/11/19	0	3,214		This Rural Development loan guarantee investment will be used to refinance a Days Inn hotel in Cambridge, Guernsey County, OH. The new hotel will save 20 jobs. The hotel is owned by the Moore family and has the largest energy target library and is a 6 Star Energy Center. The hotel is woman-owned.
OHIO	NIRCHUM INC.	BI	GUARANTEED 841 3% FEE LOAN	11/30/18	1,127,000	0		This Rural Development investment will be used for the purchase and installation of a 49kW solar array and a 300,000 bu capacity solar thermal array. Nirchum Inc. owns and operates a hotel in Cambridge, Guernsey County, OH. The solar array will generate the equivalent of 12,045 therms of natural gas. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations
OHIO	NORTHERN OHIO TRUCK CENTER	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/22/19	0	26,900		Funds will be used to identify and analyze business opportunities that will use local rural resources or urban resources. The funds will be used to provide technical assistance and training to rural businesses. The funds will be used to provide technical assistance and training to rural businesses. The funds will be used to provide technical assistance and training to rural businesses.
OHIO	OHIO HILL COUNTRY HERITAGE AREA	REBOG	RBGS DEVELOPMENT GRANT	07/30/19	0	96,000		Funding will be used for direct business-specific technical assistance to to product based businesses. This will be accomplished through direct one-on-one technical assistance with business owners. This will be accomplished through direct one-on-one technical assistance with business owners. This will be accomplished through direct one-on-one technical assistance with business owners.
OHIO	OHIO UNIVERSITY	REBOG	RBGS ENTERPRISE GRANTS	07/30/19	0	75,560		This Rural Development investment will be used for the purchase and installation of a 18.4kW solar array. Raccoon Creek Farms LLC is a hydroponic greenhouse producing 18,440 kWh per year in savings, and will replace 22,813 kWh (40%) per year of the farm's energy consumption. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations
OHIO	RACCOON CREEK FARMS	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/15/19	0	11,060		

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RRCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
OHIO	SCHWEINFARMEN, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/07/19	0	0	20,000	This Rural Development investment will be used for the purchase and installation of an energy-efficient grain dryer for Schween Farms, Inc. in Minster, OH. The project will realize \$12,311 per year in savings, and will generate 113,871 kWh per year or the equivalent of more than 10 households. The purpose of this funding program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	SCOTO PRAIRIE FARMS, INC.	EET	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/15/19	0	0	16,357	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a grain dryer. Scotto Prairie Farms, Inc. is a family owned grain processing facility located in Minster, OH. The project will realize \$9,977 per year in savings, and will reduce electric energy consumption by 2,886 kWh (28%) per year and propane consumption by 6,788 (64%)gallons per year. The purpose of this funding program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	SEIGER FARMS, INC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/23/19	0	0	70,569	This Rural Development investment will be used for the purchase and installation of a grain dryer at its facility in Minster, OH. This project will realize \$22,784 per year in savings and with an overall 51% savings. The purpose of this funding program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	SGSD CORP	BI	GUARANTEED 841 3% FEE LOAN	12/19/18	589,000	0	0	This Rural Development investment will be used for the purchase and installation of a grain dryer at its facility in Minster, OH. This project will realize \$22,784 per year in savings and with an overall 51% savings. The purpose of this funding program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	SHELLBARGER, ELIZABETH C	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/22/19	0	0	20,000	This Rural Development investment will be used for the purchase and installation of a grain dryer at its facility in Minster, OH. This project will realize \$22,784 per year in savings and with an overall 51% savings. The purpose of this funding program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	SOUTHEAST OHIO PUBLIC ENERGY COUNCIL	REAR	RENEWABLE ENERGY DEVL P ASSISTANCE GRANTS	03/25/19	0	0	98,832	SGSRS will provide technical assistance and Renewable Energy Site Assessments for up to 100 rural small business and agricultural producers during a 12 month period.
OHIO	STALEY, ADAM R	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/11/19	0	0	7,424	This Rural Development investment will be used for the purchase and installation of an 15, 18kW solar array. Adam Staley and his wife Kelly run a farm for animal production that will realize \$1,084 per year in savings, and will generate 13,914 kWh per year. The purpose of this funding program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	THE FRONTIER POWER COMPANY	REDUG (ELECTRIC)	RURAL ECONOMIC DEVELOPMENT LOANS	06/24/19	0	0	2,000,000	Rural Economic Development loan funds will be used to assist Conchocon Grain build a soybean processing plant to produce soybean meal for sale to area livestock producers and soybean oil for sale to bio-diesel producers. RED Loan funding will be used as supplemental financing for the plant. The project will realize \$1,084 per year in savings, and will generate 13,914 kWh per year. The purpose of this funding program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	THE OHIO STATE UNIVERSITY	RODG	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/23/19	0	199,825	0	The purpose of this funding program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	TITELIE BROTHERS	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	0	19,975	This Rural Development investment will be used for the purchase and installation of a 30kW solar array. Tietje Brothers Farms operate a family-run grain and oilseed farm. This solar array will realize \$5,884 per year in savings, and will replace up to 49,000 kWh (100%) per year of the farm's energy needs. The purpose of this funding program is to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
OHIO	TIM IMMEL CONSTRUCTION LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/15/19	0	4,257	0	This Rural Development investment will be used for the purchase and installation of a 3.3kW photovoltaic solar array for a small business in the area. The array will be installed on the roof of the business and will replace 3,975Wh (67%) per year of the business's energy consumption. The purpose of the investment is to reduce the business's energy costs and to demonstrate the benefits of developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	UNIVERSITY OF AARON RESEARCH FOUNDATION	REEG	RBGS ENTERPRISE GRANTS	07/22/19	0	58,382	0	Funding will be used for technical assistance for small, agricultural-related, and small business enterprises in the area. The assistance will be provided to help the businesses develop biological approaches to environmental controls, with the ability to use the resulting biomass to develop new bio-based products.
OHIO	VALLERY, MICHEL S	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/22/19	0	38,518	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a grain dryer. Michael Valley owns a family farming operation that grows grains and livestock at its facility in South Sison, OH. This project will improve the energy efficiency of the grain dryer, which will reduce the business's energy costs by 11.39kWh per year and provide conservation by 1.12 gallons per year, with an overall 42.3% savings. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
OHIO	WILLIAM WESLEY CARMES, SR., INC.	BI	GUARANTEED BAI 3% FEE LOAN	08/16/19	2,000,000	0	0	The Business & Industry Loan Guarantee funding will be used to help the business expand by providing funds for the purchase of machinery & equipment which will be rented to oil and gas drillers to improve the efficiency of the drillers operation. Blythe Bank will be the lender of record providing the credit.
OKLAHOMA	@JUNK SERVICES LLC	BI	GUARANTEED BAI 3% FEE LOAN	08/25/19	24,000,000	0	0	This Rural Development loan investment will help finance new equipment and access points for a wireless broadband company. The expansion will consist of constructing new towers to provide service to the area around Muskogee, Oklahoma.
OKLAHOMA	777 HOLDINGS LLC	BI	GUARANTEED BAI 3% FEE LOAN	08/07/19	5,000,000	0	0	This Rural Development loan investment will provide funding to purchase an existing salt water disposal facility in Velma, OK. The facility being purchased includes two disposal wells and a 100,000 gallon storage tank. This investment supports a rural work-force by retaining a local job.
OKLAHOMA	AGASI IMA INN, INC.	BI	GUARANTEED BAI 3% FEE LOAN	04/16/19	3,974,645	0	0	This Rural Development loan investment will refinance 2 existing SBA loans for a 71 room La Quinta hotel in Elk City, Beckham County, Oklahoma. Elk City has a population of 11,035. This project will support a rural workforce by saving 15 jobs.
OKLAHOMA	BARAY ENTERPRISES, INC. DBA WINCE PRECABS	BI	GUARANTEED BAI 3% FEE LOAN	08/22/19	900,000	0	0	This Rural Development loan investment will be used to purchase a company that produces concrete manholes, curb inlets, drop inlets, and box type forms used by municipalities, ODOT, Tumble authority, military and private developers in their development of sanitary and sewer projects.
OKLAHOMA	CHEROKEE NATION OF OKLAHOMA	SDPG	PERSISTENT POVERTY GRANTS TO ASSIST MINORITY PRODUCERS	08/22/19	0	55,359	0	This Rural Development loan investment will be used to fund technical assistance to socially disadvantaged community tourism development technical assistance. Thirty-five cooperatives will be assisted with these funds.
OKLAHOMA	CHEROKEE NATION OF OKLAHOMA	RDG	RBGS DEVELOPMENT GRANT	07/22/19	0	63,000	0	This Rural Development investment will provide funding for the Cherokee Nation Small Business Assistance Center to complete technical assistance and education in the areas of entrepreneurship and leadership for the Cherokee Nation area in Northeast Oklahoma. The center will provide technical assistance and education to small businesses and will provide training and education. Over the course of the training, SEAC believes that they will create and/or retain a total of 30 community based jobs.
OKLAHOMA	CHEROKEE NATION OF OKLAHOMA	SDPG	SMALL SOCIALLY DISADVANTAGED PRODUCER GRANT	08/22/19	0	60,680	0	This Rural Development investment will be used to fund technical assistance to socially disadvantaged community tourism development technical assistance. Thirty-five cooperatives will be assisted with these funds.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
OKLAHOMA	ELM PONTE CS, LLC	BI	GUARANTEED BA 3% FEE LOAN	05/13/19	5,000,000	0	0	This Rural Development loan investment will provide financing for a newly constructed strip mall and office warehouse in Bixby, OK. Two jobs will be created with this project and twelve small businesses will benefit from these new buildings and lease options for their business. The project will be located in an area that has a variety of tenants in an area of rural Oklahoma that is seeing recent economical growth.
	FLEX-CHEM HOLDING COMPANY, LLC	BI	GUARANTEED BA 3% FEE LOAN	05/14/19	7,500,000	0	0	This Rural Development loan investment will finance construction for an oilfield service well pad located in the rural community of Grove, OK. The investment will create 10 jobs and 0.16 MB. This project will support a rural workforce by saving 58 jobs and creating 49 jobs.
	GREEN PARK PROPERTIES LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/20/19	0	237,300	0	This Rural Development investment will provide renewable solar energy upgrades to a RV Park and Campground in Pauls Valley, Oklahoma.
	HARRAH FALL CREEK, LLC	BI	GUARANTEED BA 3% FEE LOAN	01/28/19	2,050,000	0	0	This Rural Development loan investment will provide financing for a 15,000 square foot retail shopping center in Hefner, OK. The site will be leased to 4 businesses and once leased will create 16 new jobs. The owner and grantor is a recipient of multiple B & I loans and is an experienced real estate developer.
	HEINLEY, PATRICK J	EET	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/20/19	0	17,395	0	This renewable energy investment will grantee to install energy efficient solar PV system in his restaurant in Hefner, Oklahoma. This investment will assist one small business.
	WED METALS, LLC	BI	GUARANTEED BA 3% FEE LOAN	09/15/19	405,000	0	0	This Rural Development investment will reference an existing loan used to start a metal fabrication business in the rural community of Grove, OK. The business fabricates and erects metal buildings of all types including, farm buildings, commercial buildings, and churches. The construction and fabrication is done by local contract employees as needed.
	OKLAHOMA ORDNANCE WORKS AUTHORITY	REBG	RBGS ENTERPRISE GRANTS	07/23/19	0	497,000	0	This Rural Development investment will provide financing for the construction of the Hanner Aerospace and Defense, located in Pryor, Oklahoma. This investment will support a rural workforce by creating up to 15 jobs and saving two jobs in Mayes County which is a designated opportunity zone.
	PARK 151 CS LLC	BI	GUARANTEED BA 3% FEE LOAN	08/21/19	3,800,000	0	0	This Rural Development loan investment will be used to finance construction on two 13,500 square foot retail shopping centers in Glenpool, OK. Each building will be occupied by upscale restaurants and retail shopping spaces. Demand for shopping and restaurants has increased due to the newly opened hospital in this area.
	RUSH 151 OFFICE SUITES, LLC	BI	GUARANTEED BA 3% FEE LOAN	06/07/19	4,050,000	0	0	This Rural Development loan investment will be used to finance the construction of an office complex. The site will consist of 15 buildings in Glenpool, OK. The facility will provide location for 5 small professional businesses. Demand has increased due to a newly opened hospital in the vicinity.
	ROLL-OFFS OF AMERICA, INC.	REAP	REAP-MAND-ENERGY EFF IMPROV GRANTS UNDER \$20,000	05/20/19	0	27,331	0	This Rural Development investment will be used to purchase specialized cancer screening equipment for the rural community of Caddo County, Oklahoma. The investment will support the population in Caddo County and by having access to this specialized equipment, this practitioner will be able to provide more services and increase the quality of life in this rural community.
	SALAZAR-SMITH, DEBORAH S	EET	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/20/19	0	12,154	0	This Rural Development loan guarantee investment will be used to finance construction on a 90-room Tru by Hilton Hotel in the rural community of Talleguah, Oklahoma. The project is located in a Persistent Poverty County (Cherokee). This project will support a rural workforce in a rural community.
OKLAHOMA	SOUTHWEST INTERMEDIARY FINANCE TEAM, I	REBG	RBGS ENTERPRISE GRANTS	07/23/19	0	80,000	0	This Rural Development loan guarantee investment will be used to finance construction on a 90-room Tru by Hilton Hotel in the rural community of Talleguah, Oklahoma. The project is located in a Persistent Poverty County (Cherokee). This project will support a rural workforce in a rural community.
	THA HOSPITALITY, LLC	BI	GUARANTEED BA 3% FEE LOAN	08/21/19	7,040,000	0	0	This Rural Development loan investment will provide financing for a 15,000 square foot convenience store/retail shop in Big Cabin, Craig County, Oklahoma. This investment will result in energy savings for this small business.
	WOODSHED OF BIG CABIN LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/20/19	0	49,750	0	This Rural Development investment will provide financing for a 15,000 square foot convenience store/retail shop in Big Cabin, Craig County, Oklahoma. This investment will result in energy savings for this small business.
	1188 BREWING COMPANY	BI	GUARANTEED BA 3% FEE LOAN	05/07/19	418,175	0	0	This Rural Development loan investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy efficiency improvements. The project will replace a 10.36 kW solar array. This project will realize \$1,124 per year in savings, and will replace 12,484 kWh (8%) per year, which is enough electricity to power 1 home.
OREGON	7 DEVILS BREWING CO	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/26/19	0	11,259	0	This Rural Development investment will provide financing for a 15,000 square foot convenience store/retail shop in Big Cabin, Craig County, Oklahoma. This investment will result in energy savings for this small business.

RBKS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount
OREGON	A-1 HERMISTON, LLP	BI	GUARANTEED BAU 3% FEE LOAN	02/26/19	8,472,500	0	0
OREGON	ASHLAND COMMUNITY SOLAR 1 LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/22/19	0	33,287	0
OREGON	ASTORIA COOPERATIVE	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	08/02/19	0	47,824	0
OREGON	BIODYNAMICS, LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	09/22/19	6,750,000	0	0
OREGON	BIODYNAMICS, LLC	BI	GUARANTEED BAU 3% FEE LOAN	09/22/19	5,000,000	0	0
OREGON	BLUE LINE FARMS, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/11/19	0	31,851	0
OREGON	BRAD R GRAFF	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/31/19	0	2,253	0
OREGON	BRENT RICHARD WAGSTAFF	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/24/19	0	12,440	0
OREGON	CENTRAL OR INTERGOV COUNCIL	RIEG	RBKS ENTERPRISE GRANTS	07/26/19	0	50,000	0

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
OREGON	CIRCLE H FARM, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/24/19	0	5,184	0	This Rural Development funds investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 2.4 kW solar array. This project will realize \$782 per year in savings, and 0 business enterprises in rural areas
OREGON	CITY CENTER HOSPITALITY, LLC	BI	GUARANTEED DBI 3% FEE LOAN	07/23/19	8,470,000	0	0	0 Rural Community.
OREGON	COMMUNITY LENDINGWORKS	RMAP	DISCRETION/ASSIST MICROENTERPRENEURS	09/30/19	0	4,276	0	0 Grant Assistance to rural communities to provide technical assistance and access to capital
OREGON	DAVID FRED GROSSEN	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/24/19	0	8,328	0	This Rural Development funds investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 3.4 kW solar array. This project will realize \$2,350 per year in savings, and 0 will replace 23,384 kWh (80%) per year.
OREGON	ECOTRUST	RIBEG	RBGS ENTERPRISE GRANTS	07/20/19	0	57,000	0	The proposed grant funds will help expand AgFirst of the Middle which is a hub-on-call center for rural businesses and entrepreneurs. The project is designed to cultivate an entire cohort of successful, independent, mid-sized farm and ranch businesses across rural Oregon and the greater Pacific Northwest. RBGS funds will be used to launch this program with 5-7 training, matching, and filting businesses into a new 2019 cohort. The project will support the development of small and emerging private business enterprises in rural areas
OREGON	FLORENCE CITY OF GURUKSERTALTY, LLC	RIBEG BI	RBGS ENTERPRISE GRANTS GUARANTEED DBI 3% FEE LOAN	07/20/19 09/28/19	0 3,261,400	0 40,100	0	0 business enterprises in rural areas
OREGON	HILLOCK INSURANCE, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	4,470	0	This Rural Development funds investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 1.4 kW solar array. This project will realize \$1,665 per year in savings, and will replace 17,273 kWh (85%) per year.
OREGON	HILLOCK'S SOLAR LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/11/19	0	26,145	0	This Rural Development funds investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize \$2,614 per year in savings, and will replace 26,145 kWh (100%) per year.
OREGON	INTEGRATED BIOWASS RESOURCES	EEl	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/18/19	0	2,655	0	This Rural Development funds investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize \$2,614 per year in savings, and will replace 26,145 kWh (100%) per year, which is enough electricity to power 2 homes.
OREGON	J&S SPEEDY MART, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/20/19	0	15,435	0	This Rural Development funds investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to make energy efficiency improvements with the purchase and installation of LED lighting. This project will realize \$5,031 per year in savings, and will replace 40,222 kWh (30%) per year, which is enough electricity to power 4 homes.

RBCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
OREGON	KIGER ISLAND BLUES, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS	03/18/19	0	11,010	0	This Rural Development funds investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used to purchase and install solar panels on a 2.5 MW solar array. This project will replace 25,104 kWh (93%) per year, which is enough electricity to power 2 homes.
	KLAMATH LAKE REGIONAL HOUSING CENTER	RMAP	DISCRETION ASSIST MICROENTERPRENEURS	09/30/19	0	6,152	0	
OREGON	KLAMATH TRIBES, THE	REEG	RBCS ENTERPRISE NATIVE AMERICAN GRANT	08/14/19	0	89,805	0	USDA Rural Development grant funds will be used by The Klamath Tribe to develop a life skills and food preservation incubator through an entrepreneurship initiative that will assist in the development of small business opportunities. Provide computer literacy and technical training to tribal members. The project will provide a space for the production of value-added goods and services. This project is expected to create 20 new jobs.
OREGON	LA BASTIDE BED AND BREAKFAST	RES	MAND. RENEW ENERGY SYSTEMS GRANTS	05/28/19	0	9,978	0	This Rural Development funds investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. La Bastide Bed and Breakfast. Project funds will be used for the purchase and installation of a 20.5 kW solar array. This project will realize \$10,086 per year in savings, and will replace 24,773 kWh (99%) per year, which is enough electricity to power 2 homes.
			UNDER \$20,000					
OREGON	LEWIS & CLARK COLLEGE	REEG	RBCS ENTERPRISE GRANTS	07/30/19	0	2,341	0	USDA Rural Development grant funds will be used by The Small Business Legal Clinic (SBLC) to provide up to ten hours of one-on-one technical legal instructional assistance to 65 businesses who are just starting or in the early growth years. Additionally, the SBLC will provide legal education to 60 small businesses through an legal presentations. This support will provide a solid legal foundation from which the business can grow with a reduced risk to legal problems impacting or closing the business. The SBLC will be working with reservations and other non-profits who focus on Native entrepreneurs. Rural Native entrepreneurs will own 75% or more of the businesses served in this program. This project is expected to create 20 new jobs.
OREGON	LEWIS & CLARK COLLEGE	RDOG	RBCS DEVELOPMENT GRANT	07/30/19	0	41,000	0	USDA Rural Development grant funds will be used by The Small Business Legal Clinic (SBLC) to provide up to ten hours of one-on-one technical legal instructional assistance to 65 businesses who are just starting or in the early growth years. Additionally, the SBLC will provide legal education to 60 small businesses through an legal presentations. This support will provide a solid legal foundation from which the business can grow with a reduced risk to legal problems impacting or closing the business. The SBLC will be working with reservations and other non-profits who focus on Native entrepreneurs. Rural Native entrepreneurs will own 75% or more of the businesses served in this program. This project is expected to create 20 new jobs.
	MICRO ENTERPRISE SERVICES OF OREGON	RMAP	DISCRETION ASSIST MICROENTERPRENEURS	09/30/19	0	7,542	0	
OREGON	MID-VALLEY FARMS, INC.	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	07/11/19	0	123,206	0	This Rural Development funds investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 90.9 kW solar array. This project will realize \$10,086 per year in savings, and will replace 102,873 kWh (19%) per year.
OREGON	MODERN BUILDING SYSTEMS, INC.	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	09/26/19	0	49,863	0	This Rural Development funds investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 8.8 kW solar array. This project will realize \$1,116 per year in savings, and will replace 11,161 kWh (94%) per year.
OREGON	MOONLIGHT FARM, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS	05/22/19	0	6,885	0	

RBCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
OREGON	MOUNTAINVIEW MOTEL & RV PARK, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/18/19	0	8,077		This Rural Development funds investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Belows Project funds will be used for the purchase and installation of 12.882 MW (94%) per year, which is enough electricity to power 1 home. 0 will replace 12.882 MW (94%) per year, which is enough electricity to power 1 home.
OREGON	NUMU ALLOTTEE ASSOCIATION	REG	RBCS ENTERPRISE NATIVE AMERICAN GRANT	08/14/19	0	50,000		USDA Rural Development grant funds will be used by The Numu Allottee Association (NAA) to provide assistance to Native American farmers, ranchers, and rural small businesses who have submitted support letters as a part of the NAA's community economic development planning with the Burns Paiute Indian Reservation, Harney County, and the City of Burns communities that are impacted and will impact the E 0 Numu Strip Demonstration Project. This project is expected to create 3 jobs.
OREGON	NW BEHO BOATS, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/11/19	0	37,869		This Rural Development funds investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of 250 MW solar array. This project will realize \$27,844 per year in savings, and will replace 278,440 kWh (84%) per year, which is enough electricity to power 20 homes. 0 will replace 278,440 kWh (84%) per year, which is enough electricity to power 20 homes.
OREGON	OR-PARK STREET SQUAR LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/29/19	0	39,088		This Rural Development funds investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of 8 MW solar array. This project will realize \$7,446 per year in savings, and 0 will replace 9,518 kWh (81%) per year.
OREGON	OREGON TRAIL ELECTRIC COOPERATIVE, INC.	REAR	RENEWABLE ENERGY DEV'P ASSISTANCE GRANTS	03/27/19	0	80,000		This Rural Development funds investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and energy audits or solar renewable energy site assessments for rural small businesses and 0 agricultural producers throughout the state of Oregon.
OREGON	PASTA PATTI, INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/22/19	0	15,808		This Rural Development funds investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of 12.882 MW (94%) per year, which is enough electricity to power 1 home. 0 will replace 12.882 MW (94%) per year, which is enough electricity to power 1 home.
OREGON	PIONEER MICRO FUND NETWORK	RMAP	DISCRETION ASSIST MICROENTERPRISE GRANTS	06/30/19	0	10,820		Grant funds will be used by Rogue Enterprise & Innovation Network (Oregon RAIN) to an equity program for Oregon's Rural Enterprise Development Fund, that is delivered by a Venture Catalyst. The project will focus on the following cities: Oakridge, Lowell, Veneta, Coburn, Westfir, and Denver. Oregon RAIN offers face-to-face meetings with funding opportunities, etc.), workshops, hosting a "Pitch-Heat" in one of the member cities. This network project features education specific to start-ups, existing and expanding 0 businesses in search of funding opportunities.
OREGON	RAIN	REG	RBCS ENTERPRISE GRANTS	08/06/19	0	49,000		The proposed grant funds will be used to form The Rogue Innovation Hub which is a joint effort between Rogue Community College and the city of Grants Pass to develop a community marketplace intended to serve local entrepreneurs and provide specialized training and technical assistance to support emerging maker community. The Project will support the development of small and emerging private business enterprises in rural areas 0
OREGON	ROGUE COMMUNITY COLLEGE	RREG	RBCS ENTERPRISE GRANTS	07/30/19	0	102,500		

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
OREGON	SANDAU ENTERPRISES, INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/18/19	0	20,000		This Rural Development funds investment will be used to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 4.5 MW solar array. This project will realize \$6,071 per year in savings, and 0 will replace 65,500 kWh (94%) per year, which is enough electricity to power 8 homes.
OREGON	SEASIDE HOTEL PARTNERS, LLC	BI	GUARANTEED 841 3% FEE LOAN	02/03/19	7,001,000	0		Agency to provide Guarantee on financing of hotel for rural small business in the rural community of seaside Oregon Clatsop county.
OREGON	SPRING HILL ORGANIC FARM, INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/24/19	0	10,915		This Rural Development funds investment will be used to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 24.8 MW solar array. This project will realize \$3,062 per year in savings, and 0 will replace 27,103 kWh (54.6%) per year.
OREGON	SPRINTER TRUCKING, INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/18/19	0	19,360		This Rural Development funds investment will be used to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 46.4 MW solar array. This project will realize \$6,071 per year in savings, and 0 will replace 51,323 kWh (____%) per year, which is enough electricity to power 62 homes.
OREGON	STOLLER VINEYARDS, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/26/19	0	117,170		This Rural Development funds investment will be used to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 4.5 MW solar array. This project will realize \$3,062 per year in savings, and 0 will replace 39,135 kWh (89%) per year, which is enough electricity to power 18 homes.
OREGON	TIMBER COUNTRY UMPQUA, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/28/19	0	78,845		This Rural Development funds investment will be used to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 4.5 MW solar array. This project will realize \$3,062 per year in savings, and 0 will replace 158,548 kWh (100%) per year.
OREGON	TRE FOLI VINEYARDS	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/24/19	0	19,360		This Rural Development funds investment will be used to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 24.8 MW solar array. This project will realize \$3,062 per year in savings, and 0 will replace 31,005 kWh (89%) per year.
OREGON	UMPUQUA VALLEY MILLWORKS	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/11/19	0	20,000		This Rural Development funds investment will be used to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 4.5 MW solar array. This project will realize \$3,062 per year in savings, and 0 will replace 44,870 kWh (104%) per year, which is enough electricity to power 3 homes.
OREGON	UNIVERSITY OF OREGON	REAR	RENEWABLE ENERGY DEV'P ASSISTANCE GRANTS	03/22/19	0	100,000		This Rural Development funds investment will be used to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 4.5 MW solar array. This project will realize \$3,062 per year in savings, and 0 will replace 44,870 kWh (104%) per year, which is enough electricity to power 3 homes.
OREGON	VAZQUEZ, ALBERTO	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/23/19	0	24,001		This Rural Development funds investment will be used to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 4.5 MW solar array. This project will realize \$3,062 per year in savings, and 0 will replace 44,870 kWh (104%) per year, which is enough electricity to power 3 homes.
OREGON	WALLOWA RESOURCES, INC.	RIEG	RICS ENTERPRISE GRANTS	07/29/19	0	21,000		The Wallowa Resource Timber Frame Project will support the development of small timber frame structure manufacturing at two small rural businesses, facilitate value creation for small forest landowners in rural Oregon, and provide additional workload for logging contractors and haulers.

RBCS FY2019 Obligations									
Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description		
BARRY HARRIS DBA NEW PENNSYLVANIA HOLLAND VETERINARY	RES	MANU. REVENUE ENERGY SYSTEMS GRANTS UNDER \$20,000	05/20/19	0	15,000		The Rural Development investment will be used to purchase and install a 46.5kW roof mounted solar p/n system. The solar panels will be installed on the roof of the veterinary hospital. New Holland Veterinary Hospital is located in the rural community of New Holland, Pennsylvania. The solar panels will provide the hospital with a source of clean energy and will reduce the hospital's energy costs by approximately 10% per year. The solar panels will also provide a source of savings and will replace \$2,250 kWh of electricity per year. 100% which is enough electricity to power 4-8 homes. The purpose of this funding program is to assist farmers, ranchers and other small businesses in developing renewable energy systems, and in making energy-efficient investments in their operations.		
	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/16/19	0	16,812		The Rural Development investment will be used for the purchase and installation of a 2.8 MW solar array for a family owned farm in Cumberland County, PA. This project will replace 28,616 kWh (85%) per year and realize \$3,719 of saving per year. The purpose of this funding program is to assist farmers, ranchers and other small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.		
	EEI	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/08/19	0	4,874.46		The Rural Development investment will be used to assist farmers, ranchers, and small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Bloomsburg Carpet Industries Inc. is an existing carpet manufacturer located in Lancaster County, PA. The purpose of this funding program is to purchase and installation of LED lighting throughout the manufacturing facility. This project will realize \$20,656 in annual savings and save 322,754kWh of electricity annually.		
PENNSYLVANIA BRUBAKER, RANDY	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/12/19	0	70,000		The Rural Development investment will be used to assist The Brubaker Poultry Farm to produce 245,198kWh of renewable solar energy and will provide 145% of the agricultural producer's electrical needs in Lancaster County, PA. This is enough to power 22.4 homes annually. The purpose of this funding program is to assist farmers, ranchers and other small businesses in developing renewable energy systems, and in making energy-efficient investments to their operations.		
	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/12/19	0	31,235		The Rural Development investment will be used to assist this poultry and crop farm, which serves rural Lancaster County, PA. This renewable energy project will provide 103% of the farm's electricity needs. The purpose of this funding program is to assist farmers, ranchers and other small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.		
	REG	RBCS ENTERPRISE GRANTS	07/29/19	0	99,999		The Rural Development investment will provide funding for the purchase of equipment associated with the monitoring and integrity of the middle mill dirt fiber network being installed. The first phase will consist of 98 miles of fiber in an effort to bring fiber to rural areas.		
PENNSYLVANIA COUNTRY OF WAYNE	RBOG	RBCS DEVELOPMENT GRANT	07/23/19	0	34,767		The Rural Development investment will be used to assist Wayne County with obtaining a feasibility study for a potential dairy processing facility within the county. The county is committing \$8,400 into the project. The feasibility study will be a critical first step in determining the viability of the project. The project will also include a market study, milk demand and develop a pricing scheme that provides farmers with more security than the current market allows.		
	EEI	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/08/19	0	6,362		The Rural Development investment will be used to make energy efficient improvements assisting the Utility Trailer Manufacturing Company install modern LED lighting located in Mechanicsburg, PA. This improvement will save the company \$4,400 in energy cost and will save 94,032 kWh of electricity per year which is enough electricity to power 4.3 homes per year.		
	BI	GUARANTEED 3% FEE LOAN	09/20/19	8,450,000	0		The Rural Development investment will be used to assist a property located at 1601 E. Cumberland Street, Lebanon, PA 17042. The investment will create 10 jobs and retain 20 jobs in the Lebanon County. This project will also include a borrower contribution of \$2,200,000.		

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
PENNSYLVANIA	CURTIS SNIDER DBA KENCHER ENTERPRISES	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/20/19	0	1,384	0	This Rural Development investment will be used to purchase and install 30W LED fixtures, 100W LED light bulbs, and 100W LED strip lighting in the Kencher Industries, located in the rural community of Lebanon, Lebanon County, PA, provides a wide variety of engineering, machining, and fabricating services since 1948. This project will replace 80.325 kWh of electricity per year (64%) which is enough electricity to power 8 homes. The purpose of this funding program is to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
PENNSYLVANIA	DEAN ZOOK DBA SWITZ CREEK	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/21/19	0	20,000	0	This Rural Development investment will be used to purchase and install a \$3,20W roof mounted solar pv system. The solar panels will be installed on the roof of the family owned cabinet business, Switz Creek Cabinet Shop is located in the rural community of Lebanon, Lebanon County, PA. The project will replace 80.325 kWh of electricity per year (64%) which is enough electricity to power 8 homes. The purpose of this funding program is to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
PENNSYLVANIA	DOLANS WELDING AND STEEL FABRICATION	EET	MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/08/19	0	17,599	0	This Rural Development investment will be used to purchase and install a 300W roof mounted solar pv system. The solar panels will be installed on the roof of the family owned welding and fabrication business, Dolans Welding and Steel Fabrication is located in the rural community of New Paris, Bedford County, PA. This project will realize an energy savings of \$5,358 per year in savings, and will replace 43,863 kWh of electricity per year (81%) which is enough electricity to power 4 homes.
PENNSYLVANIA	DR. JERAMIA SBEITAN DBA I&S FARMS, INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/14/19	0	15,804	0	This Rural Development investment will be used to establish a revolving loan fund for the Enterprise Development Fund of Erie County. Funds will be used to maintain a revolving loan fund for lending to businesses in Albion, Lake City Borough, McKean Borough, and Westlake Borough. The ultimate recipients must be small businesses located within the service area. The mission is to provide low interest loan funds to businesses in these distressed communities.
PENNSYLVANIA	ENTERPRISE DEVELOP. FUND OF ERIE CO. INC.	REG	RSCS ENTERPRISE GRANTS	07/25/19	0	99,300	0	This Rural Development investment will be used to establish a fourth revolving loan fund for the Enterprise Development Fund of Erie County. Funds will be used to maintain a revolving loan fund for lending to businesses in Crawford and Mercer Counties. The ultimate recipients must be small businesses located within the service area. The mission is to provide low interest loan funds to businesses in these distressed communities.
PENNSYLVANIA	ENTERPRISE DEVELOP. FUND OF FAY/PENN ECONOMIC DEVELOPMENT COUNCIL	IRP	INTERMEDIARY RELENDING PROGRAM	06/30/19	0	0	337,300	City of Erie, PA, is a part of an Annual grant for Technical Assistance
PENNSYLVANIA	DISCRETION ASSIST MICROENTERPRENEURS	RMAP	DISCRETION ASSIST MICROENTERPRENEURS	06/20/19	0	30,209	0	This Rural Development investment will be used for the purchase and installation of a 11.55 kW solar array for a family farm in York County, PA. This project will replace 18,970 kWh of electricity per year (64%) which is enough electricity to power 8 homes. The purpose of this funding program is to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
PENNSYLVANIA	FORBES, ERIC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/21/19	0	6,588	0	This Rural Development investment will be utilized to assist Forest City School District to partner with Johnson College to develop career pathways for high school students in the area of transportation, logistics, and architecture. The project will provide access to post secondary training in transportation, logistics, and architectural design to students and adult learners.
PENNSYLVANIA	FOREST CITY REGIONAL SCHOOL DISTRICT	REG	RSCS ENTERPRISE GRANTS	07/20/19	0	81,150	0	This Rural Development investment will be used to provide technical assistance to emerging businesses in the rural community of Forest City, York County, PA. The project will provide technical assistance to small businesses in Forest City, York County, PA. The program will save/create 0 to 10 jobs.
PENNSYLVANIA	FOREST COUNTY BUSINESS ALLIANCE	REG	RSCS ENTERPRISE GRANTS	07/26/19	0	85,181	0	This Rural Development investment will be used to provide technical assistance to emerging businesses in the rural community of Forest City, York County, PA. The project will provide technical assistance to small businesses in Forest City, York County, PA. The program will save/create 0 to 10 jobs.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
PENNSYLVANIA	FORTNEY DESIGN AND BUILD	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/16/19	0	5,354		This Rural Development Investment will be used for the purchase and installation of a 7.6kW roof-mounted solar array. Fortney Design and Build has been in business since 2017. They are an interior and exterior renovations business which specializes in electrical solutions. The project will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	PENNSYLVANIA GATE 7, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/16/19	0	31,500		This Rural Development Investment will be used for the purchase and installation of a 107.64 kW solar array. The project will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	GREATER WASHINGTON COUNTY	REGO	RBGS DEVELOPMENT GRANT	07/25/19	0	32,244		This Rural Development Investment will be used for technical assistance towards a Youth Agricultural Enterprise Program. The project will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	GREENVILLE REYNOLDS DEVELOPMENT CORP	IRP	INTERMEDIARY RELENDING PROGRAM	03/22/19	0	0	277,460	This Rural Development Investment will be used to maintain a revolving loan fund for lending to businesses in Mercer County. The ultimate recipients must be small businesses located in Mercer County. The project will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	GREENVILLE REYNOLDS DEVELOPMENT CORP	REGO	RBGS ENTERPRISE GRANTS	07/25/19	0	99,000		This Rural Development Investment will be used for the purchase and installation of a ground mount solar panel system totaling 20 kW. H. Fred Barefoot Trucking, Inc. is a general freight trucking company in the rural community of Allen Township, Mercer County. The project will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	H. FRED BAREFOOT TRUCKING, INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/09/19	0	9,300		This Rural Development Investment is being used for the purchase and installation of an energy efficient evaporator for a dairy crop business. The time-lapsed project will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	PENNSYLVANIA HAZELTINE, TIMOTHY P	REAP	REAP-MAND ENERGY EFF. IMPROV GRANTS	07/12/19	0	11,754		This Rural Development Investment is being used for the purchase and installation of a 105.6kW solar array assisting this family owned broiler chicken farm, which serves the rural town of Mainheim in Lancaster County, PA. This renewable energy project will provide 80% of the farm's electrical needs which is equivalent to powering 11.4 homes annually. The project will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	PENNSYLVANIA HERR, GREGORY MR	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/12/19	0	32,500		This Rural Development Investment is being used for the purchase and installation of a 105.6kW solar array assisting this family owned broiler chicken farm, which serves the rural town of Mainheim in Lancaster County, PA. This renewable energy project will provide 80% of the farm's electrical needs which is equivalent to powering 11.4 homes annually. The project will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
PENNSYLVANIA	HILE, DANIEL A	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/17/19	0	14,904	0	This Rural Development investment will be used for the purchase and installation of a 30.24kW roof-mounted solar array for this small business. The Kulek's Little Red Barn Farm is a bed and breakfast business. This farm allows the guest to visit a real farm and do the chores of a normal farm. This project will generate 25.348kWh in its first year which will be used to offset the farm's electricity costs. The project will also provide training and technical assistance to the farm's employees and help them to develop their business. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
PENNSYLVANIA	KEYSTONE COUNTY BUSINESS DEVELOPMENT INC.	REEG	RBGS ENTERPRISE GRANTS	07/26/19	0	40,000	0	This Rural Development investment will be used to boost the Huntingdon County economy while creating and retaining jobs. HCB can supply business start-up/planning/development counseling and supply financial resources to this initiative, as well as linking new startups with existing businesses and providing technical assistance. The project will also provide training and technical assistance to the farm's employees and help them to develop their business. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
PENNSYLVANIA	RICHLUMBER COMPANY	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/19/19	0	32,422	0	This Rural Development investment will be used for the purchase and installation of a 54.68kW ground mounted solar array. The Iron Lumber Company has been in business since 1997. They specialize in making period furniture. This project will generate 46.88kWh in its first year which will be used to offset the company's electricity costs. The project will also provide training and technical assistance to the company's employees and help them to develop their business. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
PENNSYLVANIA	KEYSTONE CENTER INC	RODG	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/10/19	0	200,000	0	This Rural Development investment will be used to continue KDC's mission to sustain rural communities, economies and resources through cooperatively owned businesses in rural Pennsylvania, Delaware, New Jersey, and Maryland.
PENNSYLVANIA	KEYSTONE DEVELOPMENT CENTER INC	SDPDG	SMALL SOCIALLY DISADVANTAGED PRODUCER GRANT	09/09/19	0	174,991	0	This Rural Development investment will be used to provide technical assistance for the development of a new business. The project will be used to provide technical assistance for a group of women home caregivers. The goals of this work are to create better quality jobs for home care workers and to provide quality care for seniors and people with disabilities living in the rural community. The project will also provide training and technical assistance to the caregivers and help them to develop their business. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
PENNSYLVANIA	HULECK'S LITTLE RED BARN FARM	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/15/19	0	15,125	0	This Rural Development investment will be used for the purchase and installation of a 48.7 kW solar array for a family farm in Juniata County, PA. The project will replace 59,302 kWh (50%) per year and realize \$6,599 of saving per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
PENNSYLVANIA	LAUVER, JOHN	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/16/19	0	27,628	0	This Rural Development investment will be used for the purchase and installation of a 48.7 kW solar array for a family farm in Juniata County, PA. The project will replace 59,302 kWh (50%) per year and realize \$6,599 of saving per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
PENNSYLVIA	METAL LITHO AND LAMINATING, LLC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/25/19	0	53,359	0	<p>The Rural Development Investment will be used to make energy efficiency improvements with the purchase and installation of a thermal oxidizer in place of the existing catalytic oxidizer. Metal Litho and Laminating, LLC is an existing metal packaging printing company located in Huntingdon County, PA. The project will cost \$45,000 per year in energy costs and will generate 0.08 MWh. 40% of the project, which is \$18,000, will be used to power 281 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
PENNSYLVIA	MOSKOWICZ VALLEY ECONOMIC DEVELOP	REEG	RBGS ENTERPRISE GRANTS	07/25/19	0	75,000	0	<p>The Rural Development Investment will be used to help fund the renovation of a business incubator that services western Centre County and eastern Clarifield County and will be used to help fund the renovation of a business incubator that services western Centre County and eastern Clarifield County. The project will cost \$75,000 per year in energy costs and will generate 0.08 MWh. 40% of the project, which is \$18,000, will be used to power 281 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
PENNSYLVIA	NORTHEASTERN PA ALLIANCE	RMAP	MAND RURAL MICROENTERPRISE DULP ORG LOANS	05/14/19	0	0	375,000	<p>This Rural Development investment will provide a \$375,000 loan to NEPA Alliance which will establish a revolving loan fund to assist small businesses of 10 or less employees with obtaining capital for start up or expansion of up to \$50,000.</p>
PENNSYLVIA	NORTHERN TIER REG PLAN AND DEV COMM	IRP	INTERMEDIARY RELENDING PROGRAM	09/09/19	0	0	500,000	<p>This Rural Development investment will provide a \$500,000 loan to Potomac Area Development Corporation which will establish a revolving loan fund to assist small businesses of 10 or less employees with obtaining capital for start up or expansion of up to \$50,000.</p>
PENNSYLVIA	POTTSVILLE AREA DEVELOPMENT CORP	RMAP	MAND RURAL MICROENTERPRISE DULP ORG LOANS	09/17/19	0	0	300,000	<p>This Rural Development investment will provide a \$300,000 loan to Potomac Area Development Corporation which will establish a revolving loan fund to assist small businesses of 10 or less employees with obtaining capital for start up or expansion of up to \$50,000.</p>
PENNSYLVIA	READE WITHAM DBA ELKWOOD	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/20/19	0	3,501	0	<p>This Rural Development investment will be used for the purchase and installation of a 100kW solar array assisting this family owned vegetable farm, which serves Bucks County, PA. This renewable energy project will provide 82% of the business's electrical needs which saves \$5,350 and is equivalent to powering 1.5 homes annually. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
PENNSYLVIA	ROWLANDS PENNSYLVANIA PRODUCE LLC	EEL	MAND ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/08/19	0	4,513	0	<p>This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Rowlands Pennsylvania Produce LLC is an existing hydroponic firm which grows produce and sells to the local area. Project funds will be used to purchase solar panels and inverters to power the greenhouse. The project will save approximately 50% of energy consumption and allow Rowlands more efficient crop yield.</p>
PENNSYLVIA	RURAL BUSINESS INNOVATION CORPORATION	RMAP	MAND RURAL MICROENTERPRISE DULP ORG LOANS	05/14/19	0	0	100,000	<p>This Rural Development investment will provide a \$100,000 loan to Rural Business Innovation Corporation which will establish a revolving loan fund to assist small businesses of 10 or less employees with obtaining capital for start up or expansion of up to \$50,000.</p>
PENNSYLVIA	SANCT FRANCIS UNIVERSITY SEDS COUNCIL OF GOVERNMENTS	REAR APC	RENEWABLE ENERGY DEVLP ASSISTANCE GRANTS	03/21/19	0	100,000	0	<p>This Rural Development investment will be used throughout the state of Pennsylvania to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. These state assessments will provide analysis to make energy efficiency improvements to these operations and/or rural renewable energy systems. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
PENNSYLVIA	SENKOWSKI EDWARD AND KATHY	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/28/19	0	6,445	0	<p>This Rural Development investment will be used for the purchase and installation of a 75kW solar array assisting this family owned vegetable farm, which serves Bucks County, PA. This renewable energy project will provide 95% of the farm's electrical needs which is equivalent to powering 1.2 homes annually.</p>

Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/16/19	0	31,250		The Rural Development investment will be used for the purchase and installation of a 12kW solar PV system for the Peninsylvan Stoner, Loren family, 22200 Highway 22, County, PA. This renewable energy project will provide 87% of the farm's electrical needs which is equivalent to powering 10 homes annually. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/14/19	0	10,155		The Rural Development investment will be used for the purchase and installation of a 14.8kW Panasonic roof mounted Solar PV system. The Putman Place, a section rental property, 10000 Highway 22, County, PA. This renewable energy project will provide 87% of the farm's electrical needs which is equivalent to powering 10 homes annually. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
RREG	REGS ENTERPRISE GRANTS	07/23/19	0	9,700		The Rural Development investment will be used for the purchase and installation of a 17.8kw solar array. Von Oesterle Farm is a poultry farm. Project funds will be used to purchase a 17.8kw solar array, 10000 Highway 22, County, PA. This renewable energy project will provide 87% of the farm's electrical needs which is equivalent to powering 10 homes annually. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/17/19	0	9,997		The Rural Development investment will be used to replace an old inefficient grain dryer with a new one. The new dryer will be a 15.77 BTU per hour dryer. The purpose of this funding program is to assist farmers, ranchers and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations.
REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/16/19	0	43,763		The Rural Development investment will be utilized to extend 5,365 feet of natural gas line to the area with natural gas service and will run along RTE 256 Belmont, PA. The gas line is expected to provide availability of natural gas to approximately 5 small businesses and 47 homes.
RREG	REGS ENTERPRISE GRANTS	07/24/19	0	99,999		The Rural Development investment will be used to purchase and install a \$5,574W roof mounted solar PV system. The solar panels will be installed on the roof of the business that manufactures and sells wholesale furniture. The business is located in the rural community of 10000 Highway 22, County, PA. This renewable energy project will provide 87% of the farm's electrical needs which is equivalent to powering 10 homes annually. The purpose of this funding program is to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/20/19	0	18,000		The Rural Development investment will be used for the purchase and installation of an energy efficient grain dryer for Wen-Crest Farms, a crop farm owned by Steven Wenger and family that has been in the family for several generations. This high efficiency Shivers dryer will be a 15.77 BTU per hour dryer. The purpose of this funding program is to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
EEL	MAND ENERGY EFFEC IMPROV GRANTS UNDER \$20,000	05/16/19	0	19,999		The Rural Development investment will be used to replace an old inefficient grain dryer with a new one. The new dryer will be a 15.77 BTU per hour dryer. The purpose of this funding program is to assist farmers, ranchers and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
PENNSYLVANIA	PENNSYLVANIA WERNER ACRES	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/25/19	0	122,701	0	This Rural Development investment will be used for the purchase and installation of a 20 kilowatt solar array on a stable barn that houses approximately 15 horses for Zette Stables, located in the rural community of Lancaster County, PA. This renewable energy project will provide 35% of the farm's electrical needs which is equivalent to powering 20 homes annually. The purpose of this program is to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/25/19	0	41,250	0	This Rural Development investment will be used to purchase and install a 15kW roof mounted solar array on a stable barn that houses approximately 15 horses for Zette Stables, located in the rural community of Lancaster County, PA. This project will realize an energy savings of \$18,666 annually. The purpose of this funding program is to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	PENNSYLVANIA WOLGEMUTH'S FAIRVIEW FARM	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/12/19	0	41,250	0	This Rural Development investment will be used to replace an old inefficient grain dryer is a 194kW roof mounted solar array on a stable barn that houses approximately 15 horses for Zette Stables, located in the rural community of Lancaster County, PA. This project will realize an energy savings of \$18,666 annually. The purpose of this funding program is to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/12/19	0	41,250	0	This Rural Development investment will be used to replace an old inefficient grain dryer is a 194kW roof mounted solar array on a stable barn that houses approximately 15 horses for Zette Stables, located in the rural community of Lancaster County, PA. This project will realize an energy savings of \$18,666 annually. The purpose of this funding program is to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	PENNSYLVANIA WOLGEMUTH'S FAIRVIEW FARM	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/12/19	0	50,128	0	This Rural Development investment will be used for the purchase and installation of a 22.8 kW solar array on a stable barn that houses approximately 15 horses for Zette Stables, located in the rural community of Lancaster County, PA. This project will replace an old inefficient grain dryer with a new 22.8 kW solar array. The purpose of this program is to assist farmers, ranchers and rural small businesses in developing renewable energy systems and in making energy-efficiency improvements to their operations.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/09/19	0	19,032	0	This Rural Development investment will be used for the purchase and installation of a 720W solar array assisting this family owned beef cattle farm, which serves the rural Schuylkill County area in PA. This renewable energy project will provide 35% of the farm's electrical needs which is equivalent to powering 20 homes annually. The purpose of this program is to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	PENNSYLVANIA ZIMMERMAN FARMS	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/22/19	0	36,587	0	This Rural Development investment will be used for the purchase and installation of a 720W solar array assisting this family owned beef cattle farm, which serves the rural Schuylkill County area in PA. This renewable energy project will provide 35% of the farm's electrical needs which is equivalent to powering 20 homes annually. The purpose of this program is to assist farmers, ranchers and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/27/19	0	4,558	0	THIS RURAL DEVELOPMENT INVESTMENT WILL BE USED FOR THE PURCHASE AND INSTALLATION OF A 720W SOLAR ARRAY ASSISTING THIS FAMILY OWNED BEEF CATTLE FARM, WHICH SERVES THE RURAL SCHUYLL COUNTY AREA IN PA. THIS RENEWABLE ENERGY PROJECT WILL PROVIDE 35% OF THE FARM'S ELECTRICAL NEEDS WHICH IS EQUIVALENT TO POWERING 20 HOMES ANNUALLY. THE PURPOSE OF THIS FUNDING PROGRAM IS TO ASSIST FARMERS, RANCHERS AND RURAL SMALL BUSINESSES IN DEVELOPING RENEWABLE ENERGY SYSTEMS AND IN MAKING ENERGY EFFICIENCY IMPROVEMENTS TO THEIR OPERATIONS.
	ASOC DE PRODUCTORES DE PUERTO RICO BANANOS DE PR	REEG	RBGS ENTERPRISE GRANTS	07/24/19	0	60,000	0	ASOCIACION DE BANANEROS DE PUERTO RICO IS REQUESTING \$60,000.00 FUNDS FOR FERTILITY STUDY TO COLLECT DATA AND RESEARCH THE ROOT OF THE PROBLEM OF BANANAS NOT BEING EXPORTED TO THE U.S. MARKET. THE STRATEGIC ACTION PLAN TO BE SEVED IS 2000 APPROXIMATELY.
		REEG	RBGS ENTERPRISE GRANTS	09/18/19	0	395,000	0	BORINCANA FUNDATION IS REQUESTING \$395,000.00 FUNDS FOR THE INTEREST IN THE ELIGIBLE AREAS OF PUERTO RICO, PROVIDING TOOLS TO PROMOTE SELF EMPLOYMENT AND CAPACITATE EXISTING LOCAL SMALL BUSINESSES THROUGH TECHNICAL ASSISTANCE AND FINANCIAL SUPPORT. THE PROJECT'S MAIN GOAL IS PROMOTING THE ECONOMIC DEVELOPMENT OF THE REGION BY SUPPORTING THE CREATION OF 40 EXPECTED NEW EMPLOYMENTS IN THE REGION.

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
PUERTO RICO	PUERTO RICO CARLOS ESCRIBANO LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/31/19	0	72,792		THIS RURAL DEVELOPMENT INVESTMENT WILL BE USED FOR THE PURCHASE AND INSTALLATION OF A 196 KWDC PV SOLAR SYSTEM. THIS PROJECT WILL REALIZE \$39,523.12 PER YEAR IN SAVINGS AND REPLACE 231,400 KW OF ELECTRICITY PER YEAR. THE PURPOSE OF THIS FUNDING PROGRAM IS TO ASSIST FARMERS, RANCHERS, AND RURAL SMALL BUSINESSES IN DEVELOPING RENEWABLE ENERGY SYSTEMS, AND 0 IN MAKING ENERGY-EFFICIENCY IMPROVEMENTS TO THEIR OPERATIONS.
	CENTRO OFTALMOLOGICO DEL PUERTO RICO ESTE, CSP	RES	MAND. RENEW ENERFY SYSTEMS GRANTS UNDER \$20,000	03/27/19	0	14,662		THIS RURAL DEVELOPMENT INVESTMENT WILL BE USED FOR THE PURCHASE AND INSTALLATION OF A 25.84KW PV SOLAR SYSTEM. THIS PROJECT WILL REALIZED 7,549.70 PER YEAR IN SAVINGS AND REPLACE 34,198.00KWH OF ELECTRICITY PER YEAR. THE PURPOSE OF THIS FUNDING PROGRAM IS TO ASSIST FARMERS, RANCHERS, AND RURAL SMALL BUSINESSES IN DEVELOPING RENEWABLE ENERGY SYSTEMS, AND IN MAKING ENERGY-EFFICIENCY IMPROVEMENTS TO THEIR OPERATIONS.
	CORPORACION PARA EL PUERTO RICO FINANCIAMIENTO	RREG	RSCS ENTERPRISE GRANTS	07/24/19	0	61,280		CORPORACION PARA EL FINANCIAMIENTO EMPRESARIAL DEL COMERCIO DE LAS COMUNIDADES (COFEC) IS REQUESTING \$61,280.00 FUNDS FOR THE INTEREST IN PROVIDE TRAINING TO THE WORKFORCE THAT WILL ASSIST THE DEVELOPMENT OF THE BUSINESS OF THE INVESTMENT. THE CREATION OF 18 EXPECTED NEW EMPLOYMENTS IN THIS REGION.
	PUERTO RICO COVER Y MAS COVER, INC. PUERTO RICO EQUIPOCO LLC	RES BI	MAND. RENEW ENERFY SYSTEMS GRANTS UNDER \$20,000 GUARANTEED 84% 3% FEE LOAN	03/26/19 06/28/19	0	19,875 4,000,000	19,875 0	THIS RURAL DEVELOPMENT INVESTMENT WILL BE USED FOR THE PURCHASE AND INSTALLATION OF A 25 KWDC PV SOLAR SYSTEM AND A BATTERY PACKAGE OF 13.3 KW STORAGE CAPACITY. THIS PROJECT WILL REALIZE \$2,274.00 PER YEAR IN SAVINGS AND REPLACE 10,305 KW OF ELECTRICITY PER YEAR. THE PURPOSE OF THIS FUNDING PROGRAM IS TO ASSIST FARMERS, RANCHERS, AND RURAL SMALL BUSINESSES IN DEVELOPING RENEWABLE ENERGY SYSTEMS, AND IN MAKING ENERGY-EFFICIENCY IMPROVEMENTS TO THEIR OPERATIONS.
	PUERTO RICO F&F HYDROPOINICS, LLC	RES	MAND. RENEW ENERFY SYSTEMS GRANTS UNDER \$20,000	05/24/19	0	19,861		THIS RURAL DEVELOPMENT INVESTMENT WILL BE USED FOR THE PURCHASE AND INSTALLATION OF A 1 KWDC PV SOLAR SYSTEM AND A BATTERY PACKAGE OF 13.3 KW STORAGE CAPACITY. THIS PROJECT WILL REALIZE \$2,274.00 PER YEAR IN SAVINGS AND REPLACE 10,305 KW OF ELECTRICITY PER YEAR. THE PURPOSE OF THIS FUNDING PROGRAM IS TO ASSIST FARMERS, RANCHERS, AND RURAL SMALL BUSINESSES IN DEVELOPING RENEWABLE ENERGY SYSTEMS, AND IN MAKING ENERGY-EFFICIENCY IMPROVEMENTS TO THEIR OPERATIONS.
PUERTO RICO	PUERTO RICO FARMACIA HAYUYA	RES	MAND. RENEW ENERFY SYSTEMS GRANTS UNDER \$20,000	05/24/19	0	7,065		FONDO FOMENTO INDUSTRIA DE HIEVOS DE PI IS REQUESTING \$50,000.00 FUNDS FOR THE PURCHASE AND INSTALLATION OF A 25 KWDC PV SOLAR SYSTEM AND A BATTERY PACKAGE OF 13.3 KW STORAGE CAPACITY. THIS PROJECT WILL REALIZE \$2,274.00 PER YEAR IN SAVINGS AND REPLACE 10,305 KW OF ELECTRICITY PER YEAR. THE PURPOSE OF THIS FUNDING PROGRAM IS TO ASSIST FARMERS, RANCHERS, AND RURAL SMALL BUSINESSES IN DEVELOPING RENEWABLE ENERGY SYSTEMS, AND IN MAKING ENERGY-EFFICIENCY IMPROVEMENTS TO THEIR OPERATIONS.
	FONDO FOMENTO INDUSTRIA DE PUERTO RICO NUEVOS DE PA	RREG	RSCS ENTERPRISE GRANTS	07/24/19	0	50,000		THESE RURAL DEVELOPMENT INVESTMENTS WILL BE USED TO ASSIST FARMERS, RANCHERS, AND RURAL SMALL BUSINESSES IN DEVELOPING RENEWABLE ENERGY SYSTEMS, AND IN MAKING ENERGY-EFFICIENCY IMPROVEMENTS TO THEIR OPERATIONS. THROUGH TECHNICAL ASSISTANCE, COACHING AND MENTORING EXPERTISE, THE CREATION OF 225 TO 300 NEW EMPLOYMENTS.
PUERTO RICO	PUERTO RICO FRIENDS OF PUERTO RICO	RREG	RSCS ENTERPRISE GRANTS	07/24/19	0	44,974		FRIENDS OF PUERTO RICO IS REQUESTING \$44,974.00 FUNDS FOR THE CREATION OF TECHNICAL ASSISTANCE AND BUSINESS DEVELOPMENT PROJECT TO PILOT A COFFEE RESEARCH AND BUSINESS DEVELOPMENT PROJECT IN AN URBAN AND RURAL AREA. THE PROJECT WILL BE USED TO ASSIST FARMERS, RANCHERS, AND RURAL SMALL BUSINESSES IN DEVELOPING RENEWABLE ENERGY SYSTEMS, AND IN MAKING ENERGY-EFFICIENCY IMPROVEMENTS TO THEIR OPERATIONS. THROUGH TECHNICAL ASSISTANCE, COACHING AND MENTORING EXPERTISE, THE CREATION OF 225 TO 300 NEW EMPLOYMENTS.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
PUERTO RICO INC.	FUNDACION SILA M. CALDERON, INC.	RBEG	RBGS ENTERPRISE GRANTS	07/04/19	0	23,356	0	FUNDACION SILA M. CALDERON, INC. IS REQUESTING \$23,356.00 FUNDS FOR THE INTEREST IN THE RESIDENTS OF MOROVIS, PROVIDING TOOLS TO PROMOTE SELF EMPLOYMENT AND CAPACITATE EXISTING LOCAL SMALL BUSINESSES THROUGH TECHNICAL ASSISTANCE, COACHING AND MENTORING EXPERTISE, AND BY PROMOTING THE ECONOMIC DEVELOPMENT OF THE REGION BY SUPPORTING THE CREATION OF 25 EXPECTED NEW EMPLOYMENTS IN THE REGION.
		RBEG	RBGS ENTERPRISE GRANTS	07/04/19	0	23,356	0	FUNDACION SILA M. CALDERON, INC. IS REQUESTING \$3,000.00 FUNDS FOR THE INTEREST IN THE RESIDENTS OF COMERO, PROVIDING TOOLS TO PROMOTE SELF EMPLOYMENT AND CAPACITATE EXISTING LOCAL SMALL BUSINESSES THROUGH TECHNICAL ASSISTANCE, COACHING AND MENTORING EXPERTISE, AND BY PROMOTING THE ECONOMIC DEVELOPMENT OF THE REGION BY SUPPORTING THE CREATION OF 25 EXPECTED NEW EMPLOYMENTS IN THE REGION.
	FUNDACION SILA M. CALDERON, INC.	RBEG	RBGS DEVELOPMENT GRANT	07/10/19	0	33,000	0	THIS RURAL DEVELOPMENT INVESTMENT WILL BE USED FOR THE PURCHASE AND INSTALLATION OF A 3.00 KW PV SOLAR SYSTEM. THIS PROJECT WILL REALIZED IN THE RESIDENTS OF MOROVIS, PROVIDING TOOLS TO PROMOTE SELF EMPLOYMENT AND CAPACITATE EXISTING LOCAL SMALL BUSINESSES THROUGH TECHNICAL ASSISTANCE, COACHING AND MENTORING EXPERTISE, AND BY PROMOTING THE ECONOMIC DEVELOPMENT OF THE REGION BY SUPPORTING THE CREATION OF 25 EXPECTED NEW EMPLOYMENTS IN THE REGION.
		RBEG	RBGS DEVELOPMENT GRANT	07/10/19	0	298,241	0	THIS RURAL DEVELOPMENT INVESTMENT WILL BE USED FOR THE PURCHASE AND INSTALLATION OF A 2.70 KW PV SOLAR SYSTEM. THIS PROJECT WILL REALIZED IN THE RESIDENTS OF MOROVIS, PROVIDING TOOLS TO PROMOTE SELF EMPLOYMENT AND CAPACITATE EXISTING LOCAL SMALL BUSINESSES THROUGH TECHNICAL ASSISTANCE, COACHING AND MENTORING EXPERTISE, AND BY PROMOTING THE ECONOMIC DEVELOPMENT OF THE REGION BY SUPPORTING THE CREATION OF 25 EXPECTED NEW EMPLOYMENTS IN THE REGION.
PUERTO RICO INC.	PUERTO RICO GANADEROS BORGES INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/10/19	0	298,241	0	THIS RURAL DEVELOPMENT INVESTMENT WILL BE USED FOR THE PURCHASE AND INSTALLATION OF A 2.70 KW PV SOLAR SYSTEM. THIS PROJECT WILL REALIZED IN THE RESIDENTS OF MOROVIS, PROVIDING TOOLS TO PROMOTE SELF EMPLOYMENT AND CAPACITATE EXISTING LOCAL SMALL BUSINESSES THROUGH TECHNICAL ASSISTANCE, COACHING AND MENTORING EXPERTISE, AND BY PROMOTING THE ECONOMIC DEVELOPMENT OF THE REGION BY SUPPORTING THE CREATION OF 25 EXPECTED NEW EMPLOYMENTS IN THE REGION.
PUERTO RICO INC.	PUERTO RICO GONZALEZ, ALEJANDRO	RES	MAND. RENEW ENERFFY SYSTEMS GRANTS UNDER \$20,000	04/16/19	0	8,750	0	THIS RURAL DEVELOPMENT INVESTMENT WILL BE USED FOR THE PURCHASE AND INSTALLATION OF A 2.70 KW PV SOLAR SYSTEM. THIS PROJECT WILL REALIZED IN THE RESIDENTS OF MOROVIS, PROVIDING TOOLS TO PROMOTE SELF EMPLOYMENT AND CAPACITATE EXISTING LOCAL SMALL BUSINESSES THROUGH TECHNICAL ASSISTANCE, COACHING AND MENTORING EXPERTISE, AND BY PROMOTING THE ECONOMIC DEVELOPMENT OF THE REGION BY SUPPORTING THE CREATION OF 25 EXPECTED NEW EMPLOYMENTS IN THE REGION.
PUERTO RICO INC.	JACQUELIN ARIASCOLA DE PUERTO RICO COMERO INC.	RES	MAND. RENEW ENERFFY SYSTEMS GRANTS UNDER \$20,000	03/27/19	0	11,061	0	THIS RURAL DEVELOPMENT INVESTMENT WILL BE USED FOR THE PURCHASE AND INSTALLATION OF A 3.00 KW PV SOLAR SYSTEM. THIS PROJECT WILL REALIZED IN THE RESIDENTS OF MOROVIS, PROVIDING TOOLS TO PROMOTE SELF EMPLOYMENT AND CAPACITATE EXISTING LOCAL SMALL BUSINESSES THROUGH TECHNICAL ASSISTANCE, COACHING AND MENTORING EXPERTISE, AND BY PROMOTING THE ECONOMIC DEVELOPMENT OF THE REGION BY SUPPORTING THE CREATION OF 25 EXPECTED NEW EMPLOYMENTS IN THE REGION.
PUERTO RICO INC.	PUERTO RICO JAVIER SARRAGA OYOLA	RES	MAND. RENEW ENERFFY SYSTEMS GRANTS UNDER \$20,000	03/27/19	0	18,138	0	THIS RURAL DEVELOPMENT INVESTMENT WILL BE USED FOR THE PURCHASE AND INSTALLATION OF A 3.00 KW PV SOLAR SYSTEM. THIS PROJECT WILL REALIZED IN THE RESIDENTS OF MOROVIS, PROVIDING TOOLS TO PROMOTE SELF EMPLOYMENT AND CAPACITATE EXISTING LOCAL SMALL BUSINESSES THROUGH TECHNICAL ASSISTANCE, COACHING AND MENTORING EXPERTISE, AND BY PROMOTING THE ECONOMIC DEVELOPMENT OF THE REGION BY SUPPORTING THE CREATION OF 25 EXPECTED NEW EMPLOYMENTS IN THE REGION.
PUERTO RICO INC.	PUERTO RICO MARCO INDUSTRIES	BI	MAND. RENEW ENERFFY SYSTEMS GRANTS UNDER \$20,000	05/16/19	643,878	0	0	THIS RURAL DEVELOPMENT INVESTMENT WILL BE USED FOR THE PURCHASE AND INSTALLATION OF A 3.00 KW PV SOLAR SYSTEM. THIS PROJECT WILL REALIZED IN THE RESIDENTS OF MOROVIS, PROVIDING TOOLS TO PROMOTE SELF EMPLOYMENT AND CAPACITATE EXISTING LOCAL SMALL BUSINESSES THROUGH TECHNICAL ASSISTANCE, COACHING AND MENTORING EXPERTISE, AND BY PROMOTING THE ECONOMIC DEVELOPMENT OF THE REGION BY SUPPORTING THE CREATION OF 25 EXPECTED NEW EMPLOYMENTS IN THE REGION.
PUERTO RICO INC.	PUERTO RICO MARTINEZ, JOVANNY	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/10/19	0	33,750	0	THIS RURAL DEVELOPMENT INVESTMENT WILL BE USED FOR THE PURCHASE AND INSTALLATION OF A 3.00 KW PV SOLAR SYSTEM. THIS PROJECT WILL REALIZED IN THE RESIDENTS OF MOROVIS, PROVIDING TOOLS TO PROMOTE SELF EMPLOYMENT AND CAPACITATE EXISTING LOCAL SMALL BUSINESSES THROUGH TECHNICAL ASSISTANCE, COACHING AND MENTORING EXPERTISE, AND BY PROMOTING THE ECONOMIC DEVELOPMENT OF THE REGION BY SUPPORTING THE CREATION OF 25 EXPECTED NEW EMPLOYMENTS IN THE REGION.

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
RHODE ISLAND	PUERTO RICO PANADERIA LA ESTANCA INC.	RES	MAND. RENEW ENERMY SYSTEMS GRANTS UNDER \$20,000	05/24/19	0	20,000		THIS RURAL DEVELOPMENT INVESTMENT WILL BE USED FOR THE PURCHASE AND INSTALLATION OF A 42.4KW PV SOLAR SYSTEM. THIS PROJECT WILL REALIZE 17,650.38 PER YEAR IN SAVINGS AND REPLACE 67,886 KWH OF ELECTRICITY PER YEAR. THE PROJECT WILL BE USED TO ASSIST FARMERS, RANCHERS, AND RURAL SMALL BUSINESSES IN DEVELOPING RENEWABLE ENERGY SYSTEMS, AND IN MAKING ENERGY EFFICIENCY IMPROVEMENTS TO THEIR OPERATIONS.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/10/19	0	48,037		THIS RURAL DEVELOPMENT INVESTMENT WILL BE USED FOR THE PURCHASE AND INSTALLATION OF A 63 KWDC PV SOLAR SYSTEM. THIS PROJECT WILL REALIZE \$17,640.00 PER YEAR IN SAVINGS AND REPLACE 84,000 KW OF ELECTRICITY PER YEAR. THE PROJECT WILL BE USED TO ASSIST FARMERS, RANCHERS, AND RURAL SMALL BUSINESSES IN DEVELOPING RENEWABLE ENERGY SYSTEMS, AND IN MAKING ENERGY EFFICIENCY IMPROVEMENTS TO THEIR OPERATIONS.
	PUERTO RICO WORLD CENTRAL KITCHEN, INC	REBEG	RSCS ENTERPRISE GRANTS	07/25/19	0	63,450		WORLD CENTRAL KITCHEN, INCORPORATED IS REQUESTING \$63,450.00 FUNDS FOR THE INTEREST APPROXIMATELY 500 PARTICIPANTS ON THE FOLLOWING TOPICS: BUSINESS MODELS, FINANCIALS FOR SMALL BUSINESS OWNERS, EMPLOYMENT OPPORTUNITIES, TECHNICAL ASSISTANCE, COACHING AND MENTORING, TO PROMOTE SELF EMPLOYMENT AND CAPACITATE EXISTING LOCAL SMALL BUSINESSES THROUGH TECHNICAL ASSISTANCE, COACHING AND MENTORING EXPERTISE AND BY PROMOTING THE ECONOMIC DEVELOPMENT IN A DIFFERENT REGION AND 224 TO 868 JOBS RETAINED.
		REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	05/09/19	1,682,000	0		The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The Rural Development loan guarantee investment will be used for the purchase and installation of a 345kW solar PV system. Davidson Plant Solar, LLC is a newly created entity for the purposes of generating electricity in Richmond, RI. The system is estimated to produce 1,087,047 kWh per year, which is enough electricity to power 0 161 homes.
	RHODE ISLAND DANIELSON PIKE SOLAR, LLC	REBEG	RSCS ENTERPRISE GRANTS	07/18/19	0	42,000		This Rural Development investment will promote the Market Mobile distribution program (the hub) by providing assistance to rural small businesses, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The Rural Development loan guarantee investment will be used for the purchase and installation of a 249.6 kW solar array. This project will realize \$61,672 per year in revenue, and will generate 346,195 kWh, which is enough electricity to power 31 homes. All anticipated energy produced will be sold to the grid.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/20/19	0	145,250		This Rural Development investment will use funds to connect farmers with more sales opportunities in schools and institutional settings. The basis of the Market Mobile is to return more money and time to farmers and producers to help them gain an economic advantage. Jobs created: 11.
	RHODE ISLAND FAIRM FRESH RHODE ISLAND	REBEG	RSCS ENTERPRISE GRANTS	07/18/19	0	25,000		Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The Rural Development loan guarantee investment will be used for the purchase and installation of a 995kW solar PV system. High Solar, LLC is a newly created entity for the purposes of generating electricity in Providence, RI. The system is estimated to produce 1,209,274 kWh per year, which is enough electricity to power 112 0 homes.
		BI	GUARANTEED 841.3% FEEL LOAN	09/27/19	9,500,000	0		0 with high unemployment.
	RHODE ISLAND FEROLENINK FARMS INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/20/19	0	145,250		This project is to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The Rural Development loan guarantee investment will be used for the purchase and installation of a 995kW solar PV system. High Solar, LLC is a newly created entity for the purposes of generating electricity in Providence, RI. The system is estimated to produce 1,209,274 kWh per year, which is enough electricity to power 112 0 homes.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/20/19	0	145,250		This project is to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The Rural Development loan guarantee investment will be used for the purchase and installation of a 995kW solar PV system. High Solar, LLC is a newly created entity for the purposes of generating electricity in Providence, RI. The system is estimated to produce 1,209,274 kWh per year, which is enough electricity to power 112 0 homes.

RCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
RHODE ISLAND	LEGENDS CREEK, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/11/19	0	11,298	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 2.17 kW solar array. This project will realize \$3,876 per year in savings and will replace 16,604 kWh (120.07%) per year, which is enough electricity to power 1.34 homes.
	LEVESQUE, RICHARD	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/11/19	0	20,000	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 55.89 kW solar array. This project will realize \$6,079 per year in savings and will replace 62,003 kWh (288.08%) per year, which is enough electricity to power 5.72 homes.
	MARTINELLIS FARM AND	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	8,755	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 10 kW solar array. This project will realize \$2,400 per year in savings, and will replace 10,343 kWh (13.68%) per year, which is enough electricity to power 0.2 homes.
	CHARCUTERIE LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/11/19	0	4,466	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 1.26kW kW solar array. This project will realize \$1,969 per year in savings and will replace 10,343 kWh (13.68%) per year, which is enough electricity to power 1.01 homes.
	MONIFF, PATRICK	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	07/30/19	0	135,000	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 257.840 kW solar array. This project will realize \$257,840 per year in savings and will replace 257,840 kWh per year, which is enough electricity to power 23 homes.
	OSD MAIN STREET SOLAR, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/09/19	1,730,000	0	0	The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The Rural Development loan guarantee investment will be used for the purchase and installation of a 975kW solar PV system. OSD Main St Solar, LLC is a newly created entity for the purpose of generating electricity in Richmond, RI. The project will realize \$1,730,000 per year in savings and will replace 1,730,000 kWh (13.68%) per year, which is enough electricity to power 114 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
	PALMER CIRCLE SOLAR LLC	RES	RENEWABLE ENERGY SYSTEMS - GUAR LOAN	05/09/19	1,684,500	0	0	The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. The Rural Development loan guarantee investment will be used for the purchase and installation of a 391 kW solar PV system. Palmer Circle Solar, LLC is a newly created entity for the purpose of generating electricity in Pawtucket, RI. The project will realize \$1,684,500 per year in savings and will replace 1,684,500 kWh (13.68%) per year, which is enough electricity to power 124 homes.
	PIERRE, PARIS	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/11/19	0	7,216	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. Project funds will be used for the purchase and installation of a 1.12kW kW solar array. This project will realize \$1,645 per year in savings and will replace 8,438 kWh (63.68%) per year, which is enough electricity to power 1.24 homes.
	INDIAN MEMORIAL MUSEUM	REBG	RCS ENTERPRISE GRANTS	07/18/19	0	30,000	0	This Rural Development investment will be used to support and empower the Native American community in Rhode Island. The investment will be used to support business sustainability, small business development and maintenance for our partner consulting business. It will also increase indigenous voice in Rhode Island.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
Rhode Island	RHODE ISLAND VINEYARDS LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	0	8,700	This project is a battery back-up retro fit of an RES for uninterruptible operation with hybrid inverters. This will keep the solar system producing during outages. Allow time shelling of peak grid usage, and back up critical circuits at night. This project will realize \$2,602 in annual savings of total fuel cost (propane gas at \$1.30/gallon) 51750 for generators.
	RHODE ISLAND WINDMIST FARM, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/11/19	0	20,000	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to existing energy systems. This project will realize \$5,379 per year in savings and installation of a 25.2 kW solar array. This project will realize \$5,379 per year in savings and 0 will replace 88.465 kWh (89.73%) per year, which is enough electricity to power 2.83 homes.
	RHODE ISLAND WINDY ACRES SOLAR, LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	05/09/19	1,627,500	0	0	The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to existing energy systems. The Rural Development Investment will be used for the purchase and installation of a 995kW solar PV system. Windy Acres Solar, LLC is a newly created entity for the purposes of generating electricity in Cumberland, RI. The project is estimated to produce 1,300,329 kWh per year, which is enough electricity to power 0 120 homes.
	SOUTH CARK PROPERTIES, LLC	REAP	REAP-MAND ENERGY EFF. IMPROV GRANTS	07/23/19	0	6,331	0	This Rural Development investment will be used to purchase and install a high efficiency infrared heating system. Airport Industrial Properties LLC owns the warehouse that is leased to South CarK Properties, LLC. This project will save \$636 per year and will save 1,025 kWh of 0 electricity per year.
	SOUTH CARK ATWOOD SOLAR II, LLC	BI	GUARANTEED 8% 3% FEE LOAN	04/16/19	2,225,000	0	0	The purpose of this term loan is to finance the solar construction loan and provide the permanent financing for a 2.58 MWdc, 21.3-acre utility-scale solar farm located in Cowpens, South Carolina. The project is owned and operated by Atwood Solar, LLC, a local industry leading developer, and operator of utility scale solar farms. The project will be connected to the Duke Energy grid. The farm will be fully constructed, tested and connected to the grid by the end of 2019. The project will generate 2,225,000 kWh of electricity per year. The project will be selling the power to the residents via Subscription Agreements. Also, owners of the facilities usually contract with local companies to provide the maintenance of the solar farm. The project will save \$20.00 per kWh.
	SOUTH CARK DEVELOPMENT CORPORATI	REEG	RBGS ENTERPRISE GRANTS	07/25/19	0	67,970	0	THE RURAL DEVELOPMENT INVESTMENT WILL ASSIST WITH THE PROMOTION AND EXECUTION OF A LOCAL COLLABORATIVE TECHNICAL ASSISTANCE PROJECT WITH A COMMUNITY BASED APPROACH THAT WILL AID IN THE DEVELOPMENT OF SMALL AND EMERGING BUSINESSES AND ENTREPRENEURS IN THE PROJECT SERVICE AREA OF THE TOWN OF ALLENDALE
	SOUTH CARK DEVELOPMENT CORPORATI	REEG	RBGS ENTERPRISE GRANTS	07/25/19	0	67,970	0	THE RURAL DEVELOPMENT INVESTMENT PLANS TO ASSIST WITH THE PROMOTION AND EXECUTION OF A LOCAL COLLABORATIVE TECHNICAL ASSISTANCE PROJECT WITH A COMMUNITY BASED APPROACH THAT WILL AID IN THE DEVELOPMENT OF SMALL AND EMERGING BUSINESSES AND ENTREPRENEURS IN THE PROJECT SERVICE AREA OF THE TOWN OF EASTOVER
	SOUTH CARK CHAMBER COMMERCE	RMAP	DISCRETION ASSIST MICROENTERPRENEURS	06/22/19	0	53,805	0	Rural Development Funds will be used to provide technical assistance to rural microentrepreneurs and microenterprises throughout Beaufort county, SC in conjunction with the project funded by the Rural Development Investment. The project will provide on-site business planning and workforce development training for potential employees.
	SOUTH CARK CHAMBER COMMERCE	REEG	RBGS ENTERPRISE GRANTS	07/25/19	0	50,000	0	The Rural Development Investment will be used to purchase and install a 19.75 kW DC solar array for the Beaufort County Chamber of Commerce. The project will generate 34,320 kWh of electricity per year, which is enough 0 electricity to power 34 homes.
	SOUTH CARK SCHOOL ROAD FARM	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/06/19	0	12,962	0	

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
SOUTH CAR	SOUTH CAR BLACKVILLE SOLAR II, LLC CAN HOSPITALITY CAROLINAS, SOUTH CAR LLC	REAP BI	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	09/27/19	16,854,000	0	0	This Rural Development investment will be used for the purchase and installation of a 28 MW solar system. Blackville Solar II, LLC is a newly created entity for the purposes of generating electricity in Blackville, SC. The system is estimated to produce 48,624,000 kWh per year, which is enough electricity to power 32 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
			GUARANTEED BAI 3% FEE LOAN	08/02/19	5,000,000	0	0	
	SOUTH CAR CHERRY BLOSSOM SOLAR, LLC SOUTH CAR CHERRY BLOSSOM SOLAR, LLC	REAP BI	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	09/25/19	5,000,000	0	0	This Rural Development loan guarantee investment will be used to purchase and install a 14.37 MW solar energy system. Cherry Blossom Solar, LLC is a newly created entity for the purposes of generating electricity in Blackville, SC. The system is estimated to produce 24,841,000 kWh per year, which is enough electricity to power 2,258 homes.
			GUARANTEED BAI 3% FEE LOAN	09/26/19	2,100,000	0	0	
	SOUTH CAR CLEMSON UNIVERSITY	RREG	RBGS ENTERPRISE GRANTS	07/25/19	0	147,386	0	THIS RURAL DEVELOPMENT INVEST WILL ENABLE EMERGING FARMERS AND RANCHERS ENTERPRISES TO INCREASE THEIR PRODUCTION AND INNOVATIVE MEMBER OF SOUTH CAROLINA AGRICULTURAL AND REGIONAL FOOD SYSTEM COMMUNITY BY PROVIDING THEM WITH TOOLS, KNOWLEDGE, AND SKILLS NECESSARY TO BE SOUND BUSINESS MANAGERS, EXEMPLARY STEWARDS OF THE ENVIRONMENT, AND SUCCESSFUL MANUFACTURERS OF THE UNIQUE PRODUCTS THEY CREATE
					0	147,386		
	SOUTH CAR LLC SOUTH CAR COMMUNITYWORKS INC	REAP RMAP	REAP-MAND ENERGY EFF IMPROV GRANTS DISCRETION ASSIST MICROENTERPRENERS	06/17/19	0	49,992	0	This Rural Development investment will be used to make energy efficiency improvements to the production facilities of OM TUCKER LUMBER COMPANIES. This project will realize \$41,740 per year in savings, and will replace 379,447 kWh (66%) per year, which is enough electricity to power 32 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
				09/25/19	0	72,011	0	
	SOUTH CAR COYLE INS. & FINANCIAL SOUTH CAR SERVICES INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/11/19	0	6,750	0	This Rural Development investment will be utilized to operate and install a renewable energy project 36kW photovoltaic solar system mounted on the roof of it existing property in Greenwood, SC. The solar photovoltaic equipment used in this project is commercially available and the project is expected to produce 48,624,000 kWh per year, which is enough electricity to power 32 homes. The project will contribute to the funding objective goal of the REAP program by creating and retaining jobs in rural areas through grant funds available from USDA, Rural Development.
					0	6,750		

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount
SOUTH CAROLINA	SOUTH CARL EDISON SOLAR, LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	09/19/19	3,802,000	0	0
	SOUTH CARL DEVELOPMENT CORPORATI	REBG	RBGS ENTERPRISE GRANTS	07/25/19	0	75,000	0
	SOUTH CARL GASTON SOLAR II, LLC SOUTH CARL GIFFORD TOWNSHIP	BI REBG	GUARANTEED 84.3% FEEL LOAN RBGS ENTERPRISE GRANTS	04/16/19 07/25/19	6,500,000 0	32,319	0
	SOUTH CARL ADOLSCENT MED SOUTH CARL JUBILEE MARKET INTERNATIONAL	RES REBG	MAND. RENEW ENERFY SYSTEMS GRANTS UNDER \$20,000 RBGS ENTERPRISE GRANTS	02/26/19 07/25/19	0 0	13,320 80,000	0
	SOUTH CARL COUSITRA & ASSOCIATES, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/25/19	0	46,131.75	0
SOUTH CAROLINA	SOUTH CARL LARKSPUR ANDERSON, LLC MARLBORO ELECTRIC SOUTH CARL COOPERATIVE, INC.	BI REDLG	GUARANTEED 84.3% FEEL LOAN RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	07/25/19 01/31/19	2,655,000 0	300,000	0
	SOUTH CARL OLANTA, TOWN OF	RD0G	RBGS DEVELOPMENT GRANT	07/25/19	0	25,000	0
	SOUTH CARL PEGGY SOLAR, LLC PIEDMONT FARMERS MARKETING SSDPG	BI	GUARANTEED 84.3% FEEL LOAN SMALL SOCIALLY DISADVANTAGED PRODUCER GRANT	11/15/18 09/25/19	10,000,000 0	175,000	0

RBGS FY2019 Obligations						
State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Direct Loan Amount
SOUTH CAROLINA	SOUTH CARL RICHARDSON SOLAR, LLC	REAP	REAP-MAND RENEW ENERGY SYSTEMS LOANS GUAR	08/15/19	3,150,000	0
	SOUTH CARL SC STATE GOVERNMENT	RBEG	RBGS ENTERPRISE GRANTS	07/25/19	0	88,356
	SOUTH CARL SCC ENTERPRISE CAMPUS SOUTH CARL SM HOTEL LLC	RBEG BI	RBGS ENTERPRISE GRANTS GUARANTEED 8M 3% FEE LOAN	07/25/19 07/20/19	0 7,075,000	99,999 0
	SOUTH CARL DEV ALLIANCE	RBEG	RBGS ENTERPRISE GRANTS	07/25/19	0	200,000
	SPORTSMAN BOATS SOUTH CARL SPRINGFIELD SOLAR, LLC	REAP BI	REAP-MANDATORY RENEW ENERGY SYST GUARANTEED 8M 3% FEE LOAN	07/15/19 11/28/18	0 9,011,000	289,568 0
	SOUTH CARL UNITED FARMERS USA SOUTH CARL VOESM OF ORANGEBURG, LLC	SRPBG BI	PERSISTENT POVERTY GRANTS TO ASSIST GUARANTEED 8M 3% FEE LOAN	06/25/19 07/02/19	0 4,224,000	68,273 0
SOUTH DAKOTA	BOYDS GUNSTOCK INDUSTRIES, SOUTH DAKC INC.	EEl	MAND ENERGY EFFIC IMPROV GRANTS UNDER \$25,000	03/15/19	0	2,994
SOUTH DAKOTA	BROCKWISSE ECONOMIC DEVELOPMENT CORP.	RBEG	RBGS ENTERPRISE GRANTS	07/01/19	0	35,000

RBGS FY2019 Obligations

State	Borrower or Grantee	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
SOUTH DAKA COOPERATIVE, INC.	CENTRAL ELECTRIC SOUTH DAKA COOPERATIVE, INC.	REDLG RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	12/18/18	0	300,000	0	<p>This Rural Development investment will be used to provide electric businesses with economic development. This initial project will allow funds to be loaned to assist with building renovations and equipment to the Mitchell Technical Institute, in Mitchell, SD. The total project costs are \$1,287,487 with other funds for this project coming from the South Dakota Technical Institute cash contribution of \$552,037. This project is anticipated to save or create approximately 120 jobs. The facility upgrades are needed to make changes to existing equipment and wiring to meet the needs of the students and to provide training curriculum for the students and also for upgrades to equipment and security systems.</p> <p>This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of energy efficient coolers, refrigeration units and LED lighting in the grocery store in the rural area of the town of Benetford, SD. This grocery store is vital to the residents in this rural area. This project will realize \$28,246.88 per year in savings, and will replace 303.223 kWh's (76.2 percent) per year. This project is anticipated to save or create approximately 120 jobs. The facility upgrades are needed to make changes to existing equipment and wiring to meet the needs of the students and to provide training curriculum for the students and also for upgrades to equipment and security systems.</p>
		REAP REAP-MAND ENERGY EFF IMPROV GRANTS	05/24/19	0	38,160	0	<p>This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of energy efficient coolers, refrigeration units and LED lighting in the grocery store in the rural area of the town of Benetford, SD. This grocery store is vital to the residents in this rural area. This project will realize \$28,246.88 per year in savings, and will replace 303.223 kWh's (76.2 percent) per year. This project is anticipated to save or create approximately 120 jobs. The facility upgrades are needed to make changes to existing equipment and wiring to meet the needs of the students and to provide training curriculum for the students and also for upgrades to equipment and security systems.</p>
		REDLG RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	05/15/19	0	300,000	0	<p>This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting throughout a dairy operation. Crosswind Jerseys, LLC is a locally-owned dairy in Elkton, S.D. that milks over 1,300 cows daily. The project is anticipated to save or create approximately 120 jobs. The facility upgrades are needed to make changes to existing equipment and wiring to meet the needs of the students and to provide training curriculum for the students and also for upgrades to equipment and security systems.</p>
SOUTH DAKA CROSSWIND JERSEYS, LLC	CLAY UNION SOUTH DAKA ELECTRIC CORPORATION	EEI MAND ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/21/19	0	11,863	0	<p>This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting throughout a dairy operation. Crosswind Jerseys, LLC is a locally-owned dairy in Elkton, S.D. that milks over 1,300 cows daily. The project is anticipated to save or create approximately 120 jobs. The facility upgrades are needed to make changes to existing equipment and wiring to meet the needs of the students and to provide training curriculum for the students and also for upgrades to equipment and security systems.</p>
		BI GUARANTEED 841 3% FEE LOAN	08/08/19	10,000,000	0	0	<p>This Rural Development loan guarantee investment will be used for the construction of a Four Point by Sheraton brand hotel in Deadwood, SD. The hotel will primarily provide employment for the residents in this rural area. The project is anticipated to save or create approximately 120 jobs. The facility upgrades are needed to make changes to existing equipment and wiring to meet the needs of the students and to provide training curriculum for the students and also for upgrades to equipment and security systems.</p>
		EEI MAND ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/24/19	0	5,620	0	<p>This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting throughout a dairy operation. Crosswind Jerseys, LLC is a locally-owned dairy in Elkton, S.D. that milks over 1,300 cows daily. The project is anticipated to save or create approximately 120 jobs. The facility upgrades are needed to make changes to existing equipment and wiring to meet the needs of the students and to provide training curriculum for the students and also for upgrades to equipment and security systems.</p>
SOUTH DAKA FIRST PEOPLES FUND	SOUTH DAKA CORPORATION	REBG PERSISTENT POVERTY RBGS BUSINESS ENTERPRISE GRANT	06/19/19	0	46,659	0	<p>This Rural Development investment will be used to provide training and technical assistance projects to eight small and emerging art businesses. This will result in eight jobs saved in the rural area of the town of Benetford, SD. This grocery store is vital to the residents in this rural area. This project will realize \$28,246.88 per year in savings, and will replace 303.223 kWh's (76.2 percent) per year. This project is anticipated to save or create approximately 120 jobs. The facility upgrades are needed to make changes to existing equipment and wiring to meet the needs of the students and to provide training curriculum for the students and also for upgrades to equipment and security systems.</p>
		REBG RBGS ENTERPRISE GRANTS	06/20/19	0	86,000	0	<p>This Rural Development investment will be used to provide training and technical assistance projects to eight small and emerging art businesses. This will result in eight jobs saved in the rural area of the town of Benetford, SD. This grocery store is vital to the residents in this rural area. This project will realize \$28,246.88 per year in savings, and will replace 303.223 kWh's (76.2 percent) per year. This project is anticipated to save or create approximately 120 jobs. The facility upgrades are needed to make changes to existing equipment and wiring to meet the needs of the students and to provide training curriculum for the students and also for upgrades to equipment and security systems.</p>
		RWAP DISCRETION ASSIST MICROENTERPRENEURS	09/25/19	0	50,283	0	<p>This Rural Development investment will be used to provide training and technical assistance projects to eight small and emerging art businesses. This will result in eight jobs saved in the rural area of the town of Benetford, SD. This grocery store is vital to the residents in this rural area. This project will realize \$28,246.88 per year in savings, and will replace 303.223 kWh's (76.2 percent) per year. This project is anticipated to save or create approximately 120 jobs. The facility upgrades are needed to make changes to existing equipment and wiring to meet the needs of the students and to provide training curriculum for the students and also for upgrades to equipment and security systems.</p>

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
SOUTH DAKOTA	SOUTH DAKOTA GROW SOUTH DAKOTA	RMAP	MAND RURAL MICROENTERPRISE DVP ORG GRANTS	09/24/19	0	24,348	0	Rural Development Loan funds will be used to capitalize a Rural Microloan Revolving Fund 0 to make microloans to rural microentrepreneurs and microenterprises.
			DISCRETION ASSIST MICROENTERPRENIERS	09/24/19	0	288	0	Rural Development Loan funds will be used to capitalize a Rural Microloan Revolving Fund 0 to make microloans to rural microentrepreneurs and microenterprises.
	SOUTH DAKOTA DISTRICT	REDLG	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	06/07/19	0	0	400,000	This Rural Development investment will be used to provide assistance to the City of Volga to make microloans to rural microentrepreneurs and microenterprises. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
			RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	06/07/19	0	300,000	0	This Rural Development investment will be used to provide assistance to the City of Volga to make microloans to rural microentrepreneurs and microenterprises. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	SOUTH DAKOTA DISTRICT	IRP	INTERMEDIARY RELENDING PROGRAM	05/30/19	0	0	1,000,000	This Rural Development investment will help finance a revolving loan fund and technical assistance for business development services in Chamberlain, South Dakota. Funds will be used to provide capital to small and emerging businesses and provide business assessments and technical assistance to area businesses.
			RBGS ENTERPRISE GRANTS	06/20/19	0	99,000	0	This Rural Development investment will help establish a small business incubator. A grocery store will be established in a rural area, making this rural food desert as defined by USDA. Not only will the population of 439 benefit from a local food store, but seven jobs will be saved.
	SOUTH DAKOTA NUCKER SEED FARM, INC	REAP	REAP MAND ENERGY EFF IMPROV GRANTS	05/24/19	0	37,215	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting in a grocery store. Larger's Supermarkets will purchase and install LED lighting in its grocery store, which will result in energy savings of \$1,745.00 annually and 20,457 kWh's (33.18%) per year, which is enough electricity to power one home. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
			RESIDENTIAL POVERTY RBGS BUSINESS ENTERPRISE GRANT	06/19/19	0	95,000	0	This Rural Development investment will help finance a revolving loan fund and technical assistance for business development services in Chamberlain, South Dakota. Funds will be used to provide capital to small and emerging businesses and provide business assessments and technical assistance to area businesses.
	SOUTH DAKOTA LANGERS SUPERMARKETS, INC	EEI	MAND ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/25/19	0	3,767	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of new overhead doors and insulation, in a rural area. Langer's Supermarkets will purchase and install new overhead doors and insulation in its rural area. This project will realize \$7,555.48 per year in savings, and will replace 390,388 kWh's (79.3 percent) per year, which is enough electricity to power thirty-six homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
			MAND ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/22/19	0	9,043	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of new overhead doors and insulation, in a rural area. Langer's Supermarkets will purchase and install new overhead doors and insulation in its rural area. This project will realize \$7,555.48 per year in savings, and will replace 390,388 kWh's (79.3 percent) per year, which is enough electricity to power thirty-six homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

Program	Program Description	Date Origined	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
Borrower or Grantee	State	The Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting, HVAC and new coolers and refrigeration units in a grocery store. David Martin dba Pop's Grocery in Herried, SD is vital to the community and the investment will be used to make energy efficiency improvements. The project will realize savings of \$13,777.86 annually and 217.662 kWh per year. (60.11%), which is enough electricity to power 20 homes. The purpose of this funding program is to make energy efficiency improvements to their operations.				
EED	MAND. ENERGY EFFICI IMPROV GRANTS UNDER \$20,000	03/25/19	0	20,000		The Rural Development investment will be used to provide low-interest loans to Northeast South Dakota Economic Corporation for the financing of small businesses within the state of South Dakota. The investment will be used to provide low-interest loans to McPherson Power, Roberts, Spink, and Wabasha. It is anticipated that this loan will create/retain 78 jobs.
IRP	INTERMEDIARY RELENDING PROGRAM	02/14/19	0	0	554,881	0 Funds will be used to provide technical assistance to small businesses in South Dakota.
RIAP	DISCRETION/ASSIST MICROENTERPRENERS	08/24/19	0	32,830		The Rural Development investment will be used to refinance debt for RIMS, LLC. This entity is the real estate holding company for Prairie Berry, LLC in Hill City, SD. This operation is a winery that purchases fruit and honey from local agriculture producers as well as other products. The investment will be used to refinance debt from the other enterprise 0 will allow the businesses to grow and create one new job.
BI	BUSINESS & INDUSTRY GUARANTEED LOAN - 1%	10/31/18	1,260,000	0		The Rural Development investment will be used to make energy efficiency improvements to the existing building at the Rasmussen Energy, LLC produces ethanol at its Redfield, SD facility. The project will realize \$792,235 per year in savings, and will replace 95,208,650 kWh (94%) per year, which is enough electricity to power 10,640 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
REAP	REAP-MAID ENERGY EFF IMPROV GRANTS	05/24/19	0	250,000		The Rural Development investment will be used for the purchase and installation of a 27kw solar panel system estimated to produce 32,702 kWh per year, which is enough electricity to power three homes. The value of the energy to be replaced with this renewable energy system is \$5,460. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	13,094		The Rural Development investment will be used to establish a subsequent revolving loan fund in the area of Custer, SD. The investment will be used to provide low-interest loans to the area of Custer, Lincoln, McCook, Minnehaha, Turner and Union counties. South Eastern Development Foundation is a community development lender that was founded January 7, 2014. The investment will be used to provide low-interest loans to the area of Custer, SD. The investment will be used to provide low-interest loans to the area of Custer, SD. The investment will be used to provide support for community economic development. It is anticipated that this loan will create/retain approximately 14 jobs, along with the projected businesses.
IRP	INTERMEDIARY RELENDING PROGRAM	05/07/19	0	0	500,000	The Rural Development loan guarantee investment will be used for the purchase of a meat processing facility in the area of Custer, SD. The investment will be used to provide low-interest loans to local agricultural producers, resulting in financial benefits to the producers.
BI	BUSINESS & INDUSTRY GUARANTEED LOAN - 1%	06/27/19	1,162,000	0		Struga Meats, LLC will also market and sell products locally. This project will save 25 jobs and create a additional job. The applicant will be constructing 356,000 of their own hinds, 0 will create a 1951 National Bank. - Fargo-
EED	MAND. ENERGY EFFICI IMPROV GRANTS UNDER \$20,000	05/23/19	0	19,985		The Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a grain dryer. The Stash Tlberg Farm is a family owned operation that produces and markets grain. The investment will be used to make energy efficiency improvements to the existing building at the Stash Tlberg Farm. The project will realize \$8,161 per year in savings, and will replace 128,761 kWh (37%) per year, which is enough electricity to power eleven homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

RBOS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
SOUTH DAKOTA INC	VALUE ADDED AG	DEV CENTER	RCDG	09/20/19	0	148,844	0	This Rural Development Investment will be used to provide technical assistance during FY 2020 to assist both new and existing cooperatives in adding value to ag products, along with assisting 0 businesses in doing the same.
	VALUE ADDED AG	DEV CENTER	REBG	06/18/19	0	99,999	0	This Rural Development Investment will be used to provide technical assistance to the newly formed Tanika Resilient Agriculture Coop and any associated small private businesses 0 in growing the buffalo processing and marketing industry on the Pine Ridge Reservation.
SOUTH DAKOTA INC	VALUE ADDED AG	DEV CENTER	REBG	06/07/19	0	0	750,000	This Rural Development Investment will be used for a revolving loan fund for West River 0 Producers and any associated small private businesses in the area of economic and community development in the service areas. Financial resources for small towns and rural areas can help improve local economies to stabilize and grow with the 0 economic development of the area. The project will provide technical assistance to 120+ jobs and 15 projected businesses. This will help to make community economic development an affordable reality for small towns in rural western South Dakota.
	SOUTH DAKOTA RIVER FOUNDATION	IRP	INTERMEDIARY RELENDING PROGRAM	06/07/19	0	300,000	0	This Rural Development Investment is a subsequent Revolving Loan Fund for West Central 0 Electric Cooperative, Inc. The funds will be utilized by Philip Health Services, Inc. to add an additional twelve beds and remodel the existing nursing home and assisted living facility.
SOUTH DAKOTA WEST CENTRAL ELECTRIC COOP	WEST RIVER ELECTRIC	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	06/05/19	0	154,400	0	This Rural Development Investment will be used to provide assistance to the City of Wall to 0 District. It is anticipated that this project will save eight jobs.
	WEST RIVER ELECTRIC	REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	06/07/19	0	154,400	0	This Rural Development Investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting at the Dismalard Manufacturing buildings 0 in the area of economic and community development in the service areas. Financial resources for small towns and rural areas can help improve local economies to stabilize and grow with the 0 economic development of the area. The project will provide technical assistance to 120+ jobs and 15 projected businesses. This will help to make community economic development an affordable reality for small towns in rural western South Dakota.
SOUTH DAKOTA INC	WESTLAND MANUFACTURING	EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/29/19	0	8,800	0	This Rural Development Investment will be used to make energy efficiency improvements with the purchase and installation of a grain drying system. The Zimprich farm is located in 0 Hamilton County, rural Hazel, SD. This project will realize \$7,165.00 per year in savings, and will generate 22,424kWh (101% savings) per year. This project will save enough electricity to power 50 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	SOUTH DAKOTA ZIMPRICH, DANIEL L	REAP	REAP-MAND-ENERGY EFF IMPROV GRANTS	06/05/19	0	61,252	0	This Rural Development Investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting and energy controls for air compressor systems throughout the commercial building. 287 Partnership, LLC is an existing business 0 in the area of economic and community development in the service areas. Financial resources for small towns and rural areas can help improve local economies to stabilize and grow with the 0 economic development of the area. The project will provide technical assistance to 120+ jobs and 15 projected businesses. This will help to make community economic development an affordable reality for small towns in rural western South Dakota.
TENNESSEE	287 PARTNERSHIP, LLC	REAP	REAP-MAND-ENERGY EFF IMPROV GRANTS	07/17/19	0	250,000	0	This Rural Development Investment will be used for the purpose and installation of a 16 kW solar array. Sequatchie Valley Eye Care is a small eye care business in the rural area. Mr. 0 and Mrs. David L. Sequatchie are the owners of the business. The project will realize \$7,165.00 per year in savings, and will generate 22,424kWh (101% savings) per year. This project will save enough electricity to power 50 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	ALLEN, WILLIAM R DBA: SEO	RES	MAND-RENEW-ENERGY SYSTEMS GRANTS UNDER \$20,000	05/20/19	0	11,119	0	This Rural Development Investment will be used to finance a business acquisition including the purchase of ten chairs, one table and two wedding servers on 12 acres of beautiful 0 land in the area of economic and community development in the service areas. Financial resources for small towns and rural areas can help improve local economies to stabilize and grow with the 0 economic development of the area. The project will provide technical assistance to 120+ jobs and 15 projected businesses. This will help to make community economic development an affordable reality for small towns in rural western South Dakota.
TENNESSEE	ALMOST HEAVEN RESORT AND WEDDINGS, LLC	BI	GUARANTEED BAI 3% FEE LOAN	02/19/19	2,985,000	0	0	This Rural Development Investment will be used to finance a business acquisition including the purchase of ten chairs, one table and two wedding servers on 12 acres of beautiful 0 land in the area of economic and community development in the service areas. Financial resources for small towns and rural areas can help improve local economies to stabilize and grow with the 0 economic development of the area. The project will provide technical assistance to 120+ jobs and 15 projected businesses. This will help to make community economic development an affordable reality for small towns in rural western South Dakota.

RRCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
TENNESSEE	APALACHIAN ELECTRIC TENNESSEE COOPERATIVE	RED/G	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	05/14/19	0	0	1,140,000	The Rural Development investment is for the purchase of 68 acres of land to be added to the inventory of property owned by the Industrial Development Board of the City of Jefferson City. The land will support a building up to 500,000 square feet. The overall project will spur economic development in the area and create jobs for the community.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/10/19	0	49,856	0	The Rural Development investment will be used for the purchase and installation of a 52.48 MW solar array. AYAAN Hospitality, LLC, a family owned hotel, will realize \$9,605 per year in savings and will generate 75,865 kWh per year. This project will save enough electricity to power 10 homes. The purpose of this funding program is to assist rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		REBG	RRCS ENTERPRISE GRANTS	06/14/19	0	61,580	0	This Rural Development investment will be used to improve the Bristol Chamber of Commerce's tourism website. The modernized website will create a marketable platform for the community. The investment will increase tourism and tourism revenue in the rural town. In turn, the region will benefit from enhanced economic activity. A \$10,000 applicant contribution is included in the total project cost of \$71,580.
TENNESSEE	CANBY FORK ELECTRIC TENNESSEE COOPERATIVE INC	RED/G	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	05/14/19	0	0	1,670,793	This Rural Development investment is for the construction of a 50,000 square foot speculative building in the Mountain View Industrial Park in rural Warren County, Tenn. This project will increase employment in the local economy and expand the local tax base. The investment will be used to purchase and install energy efficient lighting, HVAC systems, and energy controls. The investment will increase tourism and tourism revenue in the rural town. In turn, the region will benefit from enhanced economic activity. A \$10,000 applicant contribution is included in the total project cost of \$1,680,793.
		RED/G	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	05/14/19	0	0	1,670,793	This Rural Development investment will provide funding for renovations to buildings in the Warren County School system. Weatherization and upgrades to lighting, HVAC systems, and Energy Controls in the buildings will be completed with the funds. The modernization of the facilities will have a positive impact on the fiscal integrity of the school system. The investment will increase tourism and tourism revenue in the rural town. In turn, the region will benefit from enhanced economic activity. A \$10,000 applicant contribution is included in the total project cost of \$1,680,793.
		RED/G	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	06/05/19	0	0	2,000,000	\$9,251,857
TENNESSEE	CARLEEN MOTORS, INC.	EEI	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/17/19	0	19,812	0	This Rural Development investment is to purchase necessary computer equipment for the business. The investment will be used to purchase and install energy efficient lighting, HVAC systems, and energy controls. The investment will increase tourism and tourism revenue in the rural town. In turn, the region will benefit from enhanced economic activity. A \$10,000 applicant contribution is included in the total project cost of \$19,812.
		REBG	RRCS ENTERPRISE GRANTS	06/24/19	0	28,425	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting throughout the dealership. Carter Motors, Inc is an existing business that sells vehicles to the local area. This project will realize \$12,488 per year in savings, and will replace 126,610 kWh of electricity per year (62%) savings. The investment will increase tourism and tourism revenue in the rural town. In turn, the region will benefit from enhanced economic activity. A \$10,000 applicant contribution is included in the total project cost of \$28,425.
		REBG	RRCS ENTERPRISE GRANTS	06/20/19	0	34,805	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting throughout the dealership. Carter Motors, Inc is an existing business that sells vehicles to the local area. This project will realize \$12,488 per year in savings, and will replace 126,610 kWh of electricity per year (62%) savings. The investment will increase tourism and tourism revenue in the rural town. In turn, the region will benefit from enhanced economic activity. A \$10,000 applicant contribution is included in the total project cost of \$34,805.
TENNESSEE	CRC3, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/12/19	0	44,607	0	The Rural Development investment will be used for the purchase and installation of a 79.57MW solar array. CRC3, LLC, a real estate holding company that leases space to local businesses, will realize \$12,488 per year in savings, and will generate 126,610 kWh per year (57.53%) per year. This project will save enough electricity to power 13 homes. The purpose of this funding program is to assist rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		REAP	REAP-MAND-ENERGY EFF IMPROV GRANTS	07/10/19	0	49,950	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting throughout the facility. Cumberland Toyota is an existing business that sells vehicles to the local area. This project will realize \$12,488 per year in savings, and will replace 87,159 kWh of electricity per year (66%) which is enough electricity to power 80 homes. The purpose of this funding program is to assist rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

RCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
TENNESSEE	DAVIDSON, REBECCA WALLACE	EI	MAINT ENERGY EFFIC IMPROV GRANTS UNDER 525.000	05/20/19	0	16,949	0	The Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting, replacement of HVAC system, and energy efficient roof improvements to the building. Becky Wallace-Davidson owns a building she is looking to convert into a commercial space. The project will be completed by June 2020. The project will realize \$3,080 per year in savings and will replace 67,795 kWh (61.22% per year) which is equivalent to electricity to power 1 home. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. The project will only save 1 job. The matching funds for this project are as follows: borrower cash injection in the amount of \$268,175 and West 0 (two zero) % first conventional rate in the amount of \$485,250.
		REG	RCS ENTERPRISE GRANTS	06/27/19	0	15,000	0	The Rural Development loan guarantee investment will be used for the acquisition of a 1.51 MW solar array which is located in 29 eligible sites, ground and rooftop mounted in local schools in the Hawkins and Cocke Counties. The borrower is leasing the sites and solar panels from the Tennessee Valley Authority. Distributed Solar Holdings, LLC will realize \$514,600 per year in savings. This project will generate 2,339,098 kWh per year, which is enough electricity to power 216 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. The project will only save 1 job. The matching funds for this project are as follows: borrower cash injection in the amount of \$268,175 and West 0 (two zero) % first conventional rate in the amount of \$485,250.
	DISTRIBUTED SOLAR HOLDINGS, TENNESSEE LLC	REAP	REAP MAINT RENEW ENERGY SYSTEMS LOANS GUAR	04/18/19	1,100,000	0	0	This Rural Development investment will be used to increase the number of health care professionals serving northwest Tenn., by expanding and enhancing the registered nursing program at Northwest State Community College. The program is currently serving 100 students at Northwest State Community College. Jimmy Nelske Center, One job will be created at this college in relation to this project. Additionally, the Northwest Tenn. Development Council will distribute educational information regarding opioid misuse and treatment options for residents in the region. The project will only save 1 job. The matching funds for this project are as follows: borrower cash injection in the amount of \$268,175 and West 0 (two zero) % first conventional rate in the amount of \$485,250.
		DUHT	DELTA HEALTH CARE SERVICES GRANT	04/12/19	0	650,819	0	This Rural Development investment will be used for a loan guarantee for an expansion of the Excel Boat Manufacturing Plant in Union City, Tennessee. The funds will be used to purchase machinery and equipment and for working capital. The borrower is Excel Boat Company, a family-owned business that has been in operation since 1989 in Mount Pleasant, Alabama. Today the company builds 35 models of boats. Excel Boat Company has quickly become known for quality boats, good customer service, and dealer relations. This is an excellent growth opportunity for the company and the region. The project will only save 1 job. The matching funds for this project are as follows: borrower cash injection in the amount of \$268,175 and West 0 (two zero) % first conventional rate in the amount of \$485,250.
TENNESSEE	DYERSBURG STATE COMMUNITY COLLEGE	BI	GUARANTEED BAI 3% FEE LOAN	03/19/19	1,400,000	0	0	This Rural Development investment will be used for a loan guarantee for an expansion of the Excel Boat Manufacturing Plant in Union City, Tennessee. The funds will be used to purchase machinery and equipment and for working capital. The borrower is Excel Boat Company, a family-owned business that has been in operation since 1989 in Mount Pleasant, Alabama. Today the company builds 35 models of boats. Excel Boat Company has quickly become known for quality boats, good customer service, and dealer relations. This is an excellent growth opportunity for the company and the region. The project will only save 1 job. The matching funds for this project are as follows: borrower cash injection in the amount of \$268,175 and West 0 (two zero) % first conventional rate in the amount of \$485,250.

RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
								<p>This Rural Development investment will be used for a loan guarantee for an expansion of the Excel Boat Company in Union City, Tennessee. The investment will be used to purchase machinery and equipment and to refinance an existing debt. The Excel Boat Company opened for manufacturing in June 2009 in Mountain View, Arkansas. Today the company builds 33 models of boats. Excel Boat Company has quickly become known for its quality boats and excellent customer service. The investment will provide an opportunity for the boat company as well as for Union City in Obion County, Tennessee. Other sources of funds contributing to the project are coming from the borrower in the amount of \$1,000,000. The investment will provide a loan guarantee for the amount of \$3,789,222. The Excel Boat Company is a family-oriented company, offering their employees medical and dental coverage as well as vacation and family personal time. They have a strong commitment to their employees and the community. The investment will be used to purchase machinery and equipment and to refinance an existing debt. The investment will also partner with local vocational schools to develop and specific trade employee skills. an apprentice program. This project is projecting the creation of 170 new jobs.</p> <p>This Rural Development investment will be used for technical assistance by the First Tennessee Development District. The project is to update and redistribute a regional directory of manufacturers. The investment will allow better communication, cooperation, and collaboration between regional business partners. The region will benefit through enhanced economic development.</p> <p>Live Oak Bank is applying to receive \$10,000,000 in RSC Guaranteed Loan funding to assist GMS Hotels, LLC in construction of a new MainStay Suites Hotel in Gallatinburg, TN. GMS Hotels is a new LLC founded in 2016, and will create a projected 7 jobs.</p> <p>This Rural Development investment will be used to purchase equipment for the City of Grand Junction to utilize at its farmer's market. This investment is necessary to provide vendors program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p> <p>This Rural Development investment will be used for the purchase and installation of a 113.9 kW Solar Array. Sweetwater Valley Farm, a family owned dairy and cheese production business, is seeking funding to purchase and install a solar array on their property. This project will save enough electricity to power 12 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p> <p>This Rural Development investment will be used for the purchase and installation of a 15.5kW ground mount Solar Photovoltaic System for the Huffman Family House. This project projects to generate 24,945 kWh (100%) per year and realize \$2,993.41 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.</p>
TENNESSEE	EXCEL BOAT COMPANY LLC	BI	GUARANTEED 84% 3% FEE LOAN	03/19/19	3,100,000	0	0	
TENNESSEE	FIRST TENNESSEE DEVELOPMENT DISTRICT	RREG	RSCS ENTERPRISE GRANTS	06/26/19	0	19,700	0	
TENNESSEE	GMS HOTELS, LLC	BI	GUARANTEED 84% 3% FEE LOAN	09/30/19	10,000,000	0	0	
TENNESSEE	GRAND JUNCTION, CITY OF	RREG	RSCS ENTERPRISE GRANTS	06/26/19	0	35,000	0	
TENNESSEE	HARRIS, GARY AND LINDA	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	07/16/19	0	31,210	0	
TENNESSEE	HARRISON, JOHN	RES	MAND. RENEW EMERFY SYSTEMS GRANTS UNDER \$20,000	05/14/19	0	20,000	0	
TENNESSEE	HUFFMAN, GLENDA F	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/20/19	0	10,755	0	

Borrower or Grantee	State	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
KATOM RESTAURANT SUPPLY, TENNESSEE INC.	TN	BI	GUARANTEED SMA 3% FEE LOAN	07/15/19	10,000,000	0	0	This Rural Development loan guarantees investment will be used for business expansion and renovation of existing building at Kato's Restaurant Supply. The borrower plans to replace wholesale restaurant and kitchen supplier who provide products to restaurants, schools, prisons, hospitals, hotels, convenience stores, grocery store, and the public. He Tom has been operating since 2016 and has built up a strong customer base. The purpose of existing debt in the amount of \$3,818,675. In addition to a 24,000 square foot expansion of the building's footprint for warehouse space, and interior expansion of 18,000 square feet of retail space. This project is estimated to cost \$5,260,000. The project is anticipated to generate annual revenue of \$261,100 per year and pay back the loan over \$261,100 per year. Moreover, the project is a collaboration between Rural Development and Small Business Administration Guarantee Loan Program. Small Business Administration Loan program will finance \$2,600,000 for the project.
HERSEY, GERALD B. TENNESSEE	TN	EEL	MAND ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/15/19	0	4,005	0	The Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting throughout their business building - Gen'd Hersey's Energy Center located in Nashville, Tennessee. The project was completed by June 2019. This project will realize \$2,229 per year in savings and will produce 19,321 kWh (.37%) per year. Which is enough electricity to power 2 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
PARADISE LLP TENNESSEE	TN	EEL	MAND ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	02/28/19	0	19,746	0	The Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting throughout the store. KP Paradise, LLC doing business as Cash Savers is an existing business that sells grocery and produce to the community. The project was completed by June 2019. This project will realize 19,746 kWh (.70%) per year, which is enough electricity to power 23 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
LEWINGTON CITY OF TENNESSEE	TN	RREG	RBCS ENTERPRISE GRANTS	06/27/19	0	22,500	0	The Rural Development investment will be used to plan and construct a tree, public Wi-Fi zone in the city of Lexington. This investment is necessary to bridge the digital divide and foster a connected community of opportunities for tourism enhancement, business creation, economic development.
MARTIN METHODIST COLLEGE TENNESSEE	TN	RREG	RBCS ENTERPRISE GRANTS	06/19/19	0	50,000	0	Rural Development funds will be used to provide skills training and workshops for entrepreneurs to learn strategies for competing in our changing rural economy.
MIKAWAY, MIRANDA TENNESSEE	TN	RES BI	MAND RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000 GUARANTEED SMA 3% FEE LOAN	05/22/19 06/27/19	0 6,600,000	6,621 0	0	This Rural Development investment will be used for the purchase and installation of a .986 MW solar array on Earth Kin Farm. Earth Kin Farm provides organic vegetables and pasture raised tomatoes, corn, beef and pork. The project was completed by June 2019. The project will realize \$18,175 of annual savings and will produce 13,056 kWh (100%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
TEEN INDUSTRIAL DEV ASSOCIATION TENNESSEE	TN	RBOG	RBCS DEVELOPMENT GRANT	06/25/19	0	45,000	0	The Rural Development investment will be used to fund a Wage and Benefits Study in rural Tenn. The project will assist rural communities with recruitment and retention of industries by providing information about local labor market conditions and workforce in the region. The population will benefit through enhanced economic development.
LUMBER COMPANY, INC. TENNESSEE	TN	EEL	MAND ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/22/19	0	12,534	0	The Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting throughout the building. Middle Tennessee Lumber Company is an existing business that produces and distributes lumber. The project was completed by June 2019. This project will realize \$9,452 per year in savings, and will replace 80,041 kWh (44%) per year, which is enough electricity to power 8 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

RBCS FY2019 Obligations

Borrower or Grantee	State	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
MADISON TENNESSEE STATE UNIVERSITY TENNESSEE STATE UNIVERSITY MOTLOW STATE COMMUNITY COLLEGE TENNESSEE COLLEGE MT. JULIET PROPERTY GROUP, TENNESSEE LLC	BI	RREG	RBCS ENTERPRISE GRANTS	06/27/19	0	11,250		The Rural Development investment will be used to conduct a Rural Entrepreneurship Study through Middle Tennessee State University. This investment is necessary to provide technical assistance and training to adult students and entrepreneurs in rural Canton, Hickman, Coffee and Marshall counties. The region will benefit through enhanced economic activity.
		RREG	RBCS ENTERPRISE GRANTS	06/24/19	0	49,845		0 F.Y.19 This project is to obtain training equipment for the mechatronics program. The Rural Development investment will be used for the new computer lab at Logans Symmes Community College in Madison County TN. The total cost is approximately \$4,000.00 and will be located on a 3.5 acre site. The project will create 23 new jobs.
		BI	GUARANTEED B&K FEE LOAN	10/29/18	5,000,000	0		The Rural Development investment will be used to make energy efficiency improvements to the existing business that sells vehicles to the local area. This project will replace CHEVROLET, BUICK, and GMC in an existing business that sells vehicles to the local area. This project will realize \$14,374 per year in savings, and will replace 148,021 kWh (54%) per year in savings, and will replace 155,671 kWh (49%) per year, which is enough electricity to power 15 homes. The project will create 1 job. The Rural Development investment will be used to make energy efficiency improvements to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
NEWTON/CHEVROLET, BUICK, TENNESSEE GMC, LLC	EEL		MAND ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/17/19	0	12,424		The Rural Development investment will be used to make energy efficiency improvements to an existing business that sells vehicles to the local area. This project will realize \$15,116 per year in savings, and will replace 155,671 kWh (49%) per year, which is enough electricity to power 15 homes. The project will create 1 job. The Rural Development investment will be used to make energy efficiency improvements to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
TENNESSEE NEWTON FORD, LLC	EEL		MAND ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/17/19	0	13,495		The Rural Development investment will be used to make energy efficiency improvements to an existing business that sells vehicles to the local area. This project will realize \$55,591 per year in savings, and will replace \$72,484 kWh (49%) per year, which is enough electricity to power 72 homes. The project will create 1 job. The Rural Development investment will be used to make energy efficiency improvements to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
NEWTON/NISSAN OF GALLATIN TENNESSEE INC.	REAP	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/12/19	0	44,825		The Rural Development investment will be used to make energy efficiency improvements via the purchase and installation of LED lighting throughout the Newton Nissan South dealership. Newton Nissan is an existing business that sells vehicles to the local area. This project will realize \$37,205 per year in savings, and will replace 383,161 kWh (14%) per year in savings, and will replace \$72,484 kWh (49%) per year, which is enough electricity to power 72 homes. The project will create 1 job. The Rural Development investment will be used to make energy efficiency improvements to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
TENNESSEE NEWTON/NISSAN SOUTH	REAP	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/12/19	0	31,568		The Rural Development investment will be used to make energy efficiency improvements via the purchase and installation of LED lighting throughout the Newton Nissan South dealership. Newton Nissan is an existing business that sells vehicles to the local area. This project will realize \$37,205 per year in savings, and will replace 383,161 kWh (14%) per year in savings, and will replace \$72,484 kWh (49%) per year, which is enough electricity to power 72 homes. The project will create 1 job. The Rural Development investment will be used to make energy efficiency improvements to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
NORTHEAST STATE COMMUNITY COLLEGE	RREG	RBCS ENTERPRISE GRANTS	06/27/19	0	49,595			The Rural Development investment will be used to provide technical assistance for due diligence and feasibility studies for the construction of a new facility. The project will increase the possibility of future industrial development in the rural community. This population will benefit from increased economic development in the region. A \$90,000 applicant contribution is included in the \$100,000 total project cost.
OBIION COUNTY JOINT ECONOMIC DEVELOPMENT CORPORATION TENNESSEE PRESERVATION FOUNDATION	RREG	RBCS ENTERPRISE GRANTS	06/18/19	0	10,000			The Rural Development investment will be used to provide technical assistance for due diligence and feasibility studies for the construction of a new facility. The project will increase the possibility of future industrial development in the rural community. This population will benefit from increased economic development in the region. A \$90,000 applicant contribution is included in the \$100,000 total project cost.
TENNESSEE PRESERVATION FOUNDATION	RREG	RBCS ENTERPRISE GRANTS	06/25/19	0	25,550			The Rural Development investment will be used to provide technical assistance for due diligence and feasibility studies for the construction of a new facility. The project will increase the possibility of future industrial development in the rural community. This population will benefit from increased economic development in the region. A \$90,000 applicant contribution is included in the \$100,000 total project cost.

RBKS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
TENNESSEE	RISING SUN CORPORATION	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/15/19	0	34,475	0	This Rural Development investment will be used for the purchase and installation of a 52.48 kW solar photovoltaic system for the Express restaurant and will realize \$9,601.74 per year in savings, and will replace 75,398 kWh (5.02 %) per year. This project will save enough electricity to power 7 homes. The investment is necessary to determine the needs of the region in relation to unemployment and economic activity. The region will benefit through enhanced economic activity.
	ROBERTSON COUNTY CHAMBER OF COMMERCE	RBEG	RBEGS ENTERPRISE GRANTS	06/25/19	0	8,700	0	This Rural Development investment will be used to purchase a mobile events trailer, tents, and other equipment for the Robertson County Chamber of Commerce. The investment will provide enhanced services to the population and increase economic activity in the region.
	SAVANNAH INDUSTRIAL DEVELOPMENT CORP	RBEG	RBEGS ENTERPRISE GRANTS	06/25/19	0	20,000	0	This Rural Development investment will be used to renovate and reconfigure two pieces of storage located at the main entrance of the Savannah Industrial Development Park. Direct benefits are provided to the tenants of the industrial park. In addition, the investment will aid in the recruitment of new businesses to the site. The region will benefit through enhanced economic activity.
	SOUTH CENTRAL TN DEVELOPMENT DIST	RBEG	RBEGS ENTERPRISE GRANTS	06/26/19	0	50,000	0	This Rural Development investment will be used to provide skills training and workshops at the South Central Tenn. Development District. The project will benefit entrepreneurs and small business owners in 13 rural counties. The investment is necessary for businesses to grow and create jobs in rural areas. The region will benefit through enhanced economic activity.
	SOUTHWEST HUMAN RESOURCE AGENCY	RBEG	RBEGS ENTERPRISE GRANTS	06/25/19	0	50,000	0	This Rural Development investment will be used to provide technical assistance to the Tenn. Meat Sheds program. The local partners will collect and provide reinvestment statistic data to the agency. The investment is necessary to determine the needs of the region in relation to unemployment and economic activity. The region will benefit through enhanced economic activity.
	STATE OF TENNESSEE	RBEG	RBEGS ENTERPRISE GRANTS	06/25/19	0	41,625	0	This Rural Development investment is to fund a Retail Academy for communities and small businesses in rural areas. The region served will benefit from increased economic activity. A \$20,000 applicant contribution is included in the \$27,500 total project cost.
	STATE OF TENNESSEE	RBEG	RBEGS ENTERPRISE GRANTS	06/18/19	0	43,500	0	This Rural Development investment will be used for M&G Co. and insulation upgrades to reduce energy consumption and demand. Steam Plant Food Properties, LLC owns, manages, and operates commercial real estate. This project will realize \$24,882 per year in savings, and will replace 302.8 kWh (9.5%) per year, which is enough electricity to power 6 homes. The investment is necessary to determine the needs of the region in relation to unemployment and economic activity. The region will benefit through enhanced economic activity.
	STEAM PLANT ROAD PROPERTIES LLC	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/18/19	0	60,332	0	This Rural Development investment will be used for the purchase and installation of a 53.76 kW solar photovoltaic system for the Steam Plant Road Properties, LLC. The investment will realize \$11,882 per year in savings, and will replace 71,682 kWh (59%) per year. This project will save enough electricity to power 7 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	STONE INVESTMENTS, LLC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/15/19	0	32,250	0	This Rural Development investment will be used to make energy efficiency improvements to the Stone Investments, LLC. The investment will realize \$5,185 per year in savings, and will replace 7,682 kWh (59%) per year. This project will save enough electricity to power 7 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	STORM MANUFACTURING CORPORATION	EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/15/19	0	17,721	0	This Rural Development investment will be used to make energy efficiency improvements to the Storm Manufacturing Corporation. The investment will realize \$1,836 per year in savings, and will replace 5,710 kWh (54%) per year, which is enough electricity to power 37 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

RCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
TENNESSEE	SWAFFORD, WILLIAM LOGAN	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/22/19	0	20,000	0	This Rural Development investment will be used for the purchase and installation of a 4.0 kW photovoltaic system for Logan Swafford, who resides in the rural community of Logan Swafford. This project will realize \$4,625 per year in savings, and will generate 54,152 kWh (103% savings) per year. This project will save enough electricity to power 5 homes. The purpose of this investment is to assist small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
TENNESSEE	TOLAT ONEDA/HUNTSVILLE	REG	RCS ENTERPRISE GRANTS	06/19/19	0	69,418	0	This Rural Development investment will be used to fund the purchase of three trailer trucks that will be used in the new Diesel Powered Technology Program at TOLAT Oneda/Huntsville. USDA Rural Development is providing \$69,418 REDG Grant to go along with an additional \$269,500 of matching funds for a total project cost of \$338,918. The purpose of this investment is to assist small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
TENNESSEE	TOLAT ONEDA/HUNTSVILLE	REG	RCS ENTERPRISE GRANTS	06/25/19	0	50,000	0	This Rural Development investment will be used to fund the purchase of three trailer trucks that will be used in the new Diesel Powered Technology Program at TOLAT Oneda/Huntsville. USDA Rural Development is providing \$50,000 REDG Grant to go along with an additional \$250,000 of matching funds for a total project cost of \$300,000. The purpose of this investment is to assist small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
TENNESSEE	CATTELEMENS ASSOCIATION	REG	RCS DEVELOPMENT GRANT	06/25/19	0	50,000	0	This Rural Development investment will be used to complete a feasibility study for a calf cow processing facility in rural Tenn. The result of the study will examine practicality and other elements of feasibility, such as acceptance by clients and professionals. The region will benefit through enhanced economic activity.
TENNESSEE	TENNESSEE STATE UNIVERSITY	REG	RCS ENTERPRISE GRANTS	06/25/19	0	45,000	0	This Rural Development investment will be used for technical assistance and workshops for farmers at Tenn. State University. The college will provide improved services focusing on technical assistance and workshops for farmers. The college will provide technical assistance and workshops for farmers to manage land sustainable and increase farm production. The region will benefit through enhanced economic activity.
TENNESSEE	TENNESSEE WESLEYAN COLLEGE	REG	RCS ENTERPRISE GRANTS	06/19/19	0	50,000	0	This Rural Development investment will be used to establish a centralized point of an entrepreneurial center in the rural community of The LITE House. The center will provide programming initiatives for The LITE House to develop a full equipped co-working space and coding education for the entrepreneurial community.
TENNESSEE	THE BUILDING BARN, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	4,665	0	This Rural Development investment will be used for the purchase and installation of a 6.38kW and mount Solar Photovoltaic System for The Building Barn, LLC. The Building Barn, LLC provide customized building, cooking, and nature legacy experience for families, friends and businesses. This project projects to generate 8,856 kWh (100% per year and savings) per year. This project will save enough electricity to power 1.5 homes. The purpose of this investment is to assist small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
TENNESSEE	TTC HOSPITALITY, LLC	REG	MAND. ENERGY EFF. IMPROV GRANTS	07/09/19	0	62,000	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of HVAC Systems and LED Lighting throughout the hotel. The TTC Hospitality (LLC) dba as The Ramsey Hotel is an existing business that provides lodging and a conference center to the Sevier County region. This project will realize savings of \$1,000 per year and generate 1,000 kWh (100% savings) per year. This project will save enough electricity to power 39 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
TENNESSEE	UNION COUNTY CHAMBER OF COMMERCE	REG	RCS ENTERPRISE GRANTS	06/17/19	0	10,000	0	This Rural Development investment will be used to conduct a feasibility study to determine the impact of real estate improvements at Big Ridge State Park in rural Union County. The purpose of this investment is to assist small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. A \$10,000 grant contribution is made to the total project cost of \$20,000.
TENNESSEE	UNIVERSITY OF TN	REG	RCS ENTERPRISE GRANTS	06/20/19	0	43,500	0	This Rural Development investment will be used to purchase machinery and equipment for the University of Tenn. at Martin. The result of this investment will deliver new and improved services to the rural community of Martin. The region will benefit through enhanced job opportunities in mechanicals.
TENNESSEE	UNIVERSITY OF TN	REG	RCS ENTERPRISE GRANTS	06/25/19	0	40,000	0	This Rural Development investment will be used to establish a entrepreneurship training program to assist farmers and small businesses in Tennessee to provide support, resources and training.

Borrower or Grantee	State	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount
BERGLUND HOLDINGS, LLC TEXAS	TX	RJ	GUARANTEED B&M FEE LOAN	10/20/18	2,240,000	0	The Rural Development loan guarantee investment will be used by Berglund Holdings, LLC to acquire the Flowing Wells Resort & Marina, located in Pettibone, Grayson County, Texas. The report & minutes are dated on July 6, 2019, between the State of Oklahoma and Texas. This report & minutes were filed at the county clerk's office of Oklahoma County, Texas, home land-office rentals. The resort & marina set it self apart from other facilities on Lake Texoma by having a marina where you can rent boats, swim, fish, and enjoy the view while enjoying your stay at our resort located on lake . The acquisition of the resort & marina was completed on August 17, 2018.
BETTY PARKER TEXAS	TX	EEOI	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/28/19	0	20,000	This Rural Development investment will be used to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This project will upgrade poultry houses at the farm of Betty Parker, located in Dallas County, Texas. The project will install solar panels valued at 215,138 kWh expected, enough to power 19 homes, and \$7,789.00 dollar value of energy 0 saved.
BOB AND DOT LLC TEXAS	TX	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/06/19	0	20,000	The Rural Development investment will be used to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This project will install a 32 kW photovoltaic solar array on the property owned by Bob and Dot LLC, located in Tarrant County, Texas. The electricity generated will be used to offset the energy consumed at Bob and Dot LLC. The project will generate approximately 41,780 kwh per year, which will save approximately \$1,770.00 dollar value of energy replaced.
BOHUSLAV FEED MILL, INC. TEXAS	TX	EEOI	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/28/19	0	11,103.18	The Rural Development investment will be used to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This project will feed mill energy upgrades. The electricity generated will allow the facility to operate more efficiently. The project will generate enough to power 6 houses, and \$772.00 dollar value of energy saved.
BRADY TYPE B ECONOMIC DEVELOPMENT CORPOR TEXAS	TX	RREG	RBCS ENTERPRISE GRANTS	07/03/19	0	50,000	The Rural Development investment will be used to capitalize a revolving loan fund (RLF). The RLF will be used to provide financing through loans to fund projects in Brady, McCulloch county, Texas, and surrounding areas. The Brady AB Economic Development Corporation will contribute \$50,000 toward the RLF.
BRIAN REYNOLDS DBA BOWIE WASH TEXAS	TX	EEOI	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/21/19	0	18,228	This Rural Development investment will be used to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This project will install solar panels on the property owned by Brian Reynolds, located in Garza County, Texas. The electricity generated will be used to offset the energy consumed at Brian Reynolds. The project will generate enough to power 1 home, and \$222.00 dollar value of energy saved.
BRUSHY CREEK EVENT CENTER, LLC TEXAS	TX	RES	MAND-REVIEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	10,299	This Rural Development investment will be used to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This project will install 15.5kW solar array. The electricity generated will be used to offset the energy consumed at Brushy Creek Event Center. The project will generate enough to power 2 homes, and \$1,235.74 dollar value of energy produced.
CADENCE H. BAILEY DBA BAILEY CHICK INN TEXAS	TX	RESP	RESP-MAND ENERGY EFF IMPROV GRANTS	07/10/19	0	42,477	The Rural Development investment will be used to install poultry house upgrades. It will save 153,178 watt annually, enough to power 17 homes, saving approximately \$10,000.00 per year.
CITY OF OWNA PARK TEXAS	TX	RREG	RBCS ENTERPRISE GRANTS	07/02/19	0	400,000	This Rural Development investment will be used to support a project to assess and acquire right of way located north of U.S. Highway 287 Access Road between the existing lower Park Industrial Park and the Woodbine Community, in the city of Iowa Park in Wichita county, Texas. The project will include conducting a site assessment, preparing engineering plans and bidding documents for site preparation and construction of a 45 feet wide by 500 linear foot concrete roadway, 1,000 feet of curb and gutter and 500 feet of water and wastewater infrastructure, including a stormwater detention pond. The project will also include preliminary construction work support jobs and the project will encourage small and emerging business growth by providing access and public utilities to present and future residents of the new park. The city anticipates this will provide additional funding in the amount of \$140,000.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
TEXAS	CITY OF MINERAL WELLS	REAR	RENEWABLE ENERGY DEVELP ASSISTANCE GRANTS	03/27/19	0	100,000		The Rural Development loan guarantee will be used to provide long-term financing for the project. The project is a development assistance program to agricultural producers and rural small businesses in 4 counties of North Texas. The BlockArFlores would be generated from the measure feedback of the local dairies.
TEXAS	CITY OF SULLIVAN CITY	REEG	RBGS ENTERPRISE GRANTS	07/25/19	0	52,000		The Rural Development investment will be used to install LED street lights on existing light poles or on new light poles as necessary along a two mile stretch that runs east and west on Interstate 2, to enhance economic development by attracting small and emerging businesses in the area. The project is a development assistance program to agricultural producers and rural small businesses in 4 counties of North Texas. The BlockArFlores would be generated from the measure feedback of the local dairies.
TEXAS	CITY OF UVALDE	REEG	RBGS ENTERPRISE GRANTS	07/05/19	0	345,000		The Rural Development investment will be used to provide long-term financing for the project to bring a waterline from the north of Highway 90 to the south side of the Uvalde Business Park, in the city of Uvalde, Uvalde county, Texas. The improvement will add two thousand seven hundred fifty linear feet of proposed 8 inch PVC water line complete with tie-ins to existing water lines. The project is a development assistance program to agricultural producers and rural small businesses in 4 counties of North Texas. The BlockArFlores would be generated from the measure feedback of the local dairies.
TEXAS	CLIFFS CLUB CORP.	BI	GUARANTEED 8% 3% FEE LOAN	11/28/18	5,000,000	0	0	The Rural Development investment will be used to provide long-term financing for the project. The project is a development assistance program to agricultural producers and rural small businesses in 4 counties of North Texas. The BlockArFlores would be generated from the measure feedback of the local dairies.
TEXAS	COMMERCE LODGING INVESTMENTS, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/10/19	0	48,825		The Rural Development investment will be used to provide long-term financing for the project. The project is a development assistance program to agricultural producers and rural small businesses in 4 counties of North Texas. The BlockArFlores would be generated from the measure feedback of the local dairies.
TEXAS	COMMUNITIES UNLIMITED, INC	REEG	RBGS ENTERPRISE GRANTS	07/11/19	0	95,000		The Rural Development investment will be used to provide long-term financing for the project. The project is a development assistance program to agricultural producers and rural small businesses in 4 counties of North Texas. The BlockArFlores would be generated from the measure feedback of the local dairies.
TEXAS	CORP FOR ECONOMIC DEVELOPMENT BRIDGEPORT	REEG	RBGS ENTERPRISE GRANTS	07/11/19	0	80,000		The Rural Development investment will be used to provide long-term financing for the project. The project is a development assistance program to agricultural producers and rural small businesses in 4 counties of North Texas. The BlockArFlores would be generated from the measure feedback of the local dairies.
TEXAS	CROWN OVER FARMS	EEL	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/06/19	0	15,557.28		The Rural Development investment will be used to provide long-term financing for the project. The project is a development assistance program to agricultural producers and rural small businesses in 4 counties of North Texas. The BlockArFlores would be generated from the measure feedback of the local dairies.

RCS FY2019 Obligations								
Borrower or Grantee	State	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
D&L SERVICE CO INC DBA THE WATER CO TEXAS	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000		03/06/19	0	11,064	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This project will install a 13.4 kW photovoltaic solar array. The electricity produced will be to offset the energy consumed at D&L Service Co employees' homes. Total project cost is \$27,800.00, with state funds being \$20,000.00 provided by the borrower.
FALCON STEEL AMERICA, LLC TEXAS	BI	GUARANTEED B&I 3% FEE LOAN		02/12/19	10,000,000	0	0	The Rural Development loan guarantee will be used to provide long-term financing for a fabricated structural metal manufacturing business at a commercial property in Kaufman County, Texas. The purpose of the guaranteed loan is to enhance the borrower's demand for steel structures. The purpose of the guaranteed loan will be to enhance a short-term line of credit of the borrower from the existing bank to a longer term loan. With the assistance of the loan guarantee, it could save 2-1 jobs (full-time equivalent job), with an average wage of \$11.41 per hour. Total project is \$45,600,000.
FIFTH GENERATION INC TEXAS	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS		07/10/19	0	500,000	0	The Rural Development investment will be used to install a 5MW solar array. It will produce 0.9488,350 kwh annually, enough to power 875 homes, worth approximately \$17,000,000.
FORTUNE HOTELS GROUP LLC TEXAS	BI	GUARANTEED B&I 3% FEE LOAN		03/27/19	2,811,000	0	0	This Rural Development loan guarantee investment will be used to provide long-term financing for a hotel located in Fort Worth, Tarrant County, Texas. The purpose of the guaranteed loan is to enhance the borrower's ability to acquire the hotel in 2016, into a longer-term loan. With the refinancing of the debt by the guaranteed loan, it can save 1 job (full-time equivalent) and add 1 job (part time). Total project cost is \$3,950 per hour. Total project cost is \$2,972,000, with state funds being \$581,000 provided by the borrower.
FRANKES DAVIS DBA SWAN LAKE RANCH TEXAS	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000		06/21/19	0	16,250	0	The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in improving their energy efficiency. This project will install 40.71kW solar array. The electricity produced will offset the energy consumed, with a yearly production of 35,000 kWh expected, enough to power 3 homes and \$3,600.00 dollar value of energy produced each year. Total project cost is \$16,250.00, with state funds being \$16,250.00 provided by the borrower.
GANEASH TEXAS ENTERPRISES LLC TEXAS	BI	GUARANTEED B&I 3% FEE LOAN		10/29/18	4,824,000	0	0	The Rural Development loan guarantee will be used to provide long-term financing for a hotel located in Gainesville, Texas. The hotel is a three story, 66 room facility that is located on 1.67 acres. The Borrower is anticipating on hiring 15 jobs, 10 full time and 5 part time 0 with an average wage rate of \$9.67.
GAUTE/ENTERPRISE INC. TEXAS	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS		07/10/19	0	49,625	0	The Rural Development investment will be used to install a 60kW solar array. It will produce 0.125,495 kwh annually, enough to power 11 homes, worth approximately \$17,000,000.
GEORGE E WING DBA WING RANCH TEXAS	EEl	MAND. ENERGY EFFICIENCY IMPROV GRANTS UNDER \$20,000		09/21/19	0	17,280	0	The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This project will upgrade poultry houses at Wing Ranch, where the electricity saved will offset the energy consumed, with a yearly savings of 233,607 KWH expected, enough to power 12 homes and \$1,620.00 dollar value of energy produced each year.
CORMAN ECONOMIC DEVELOPMENT CORPORATION REEG	RECG	RECS ENTERPRISE GRANTS		07/23/19	0	250,000	0	Rural Development funds will be used to fund agricultural, livestock-related, and other funding will provide financial assistance through loans to third parties to support the development of small and emerging business enterprises in Gorman, Texas and the surrounding area. The city is experiencing high poverty, with over 25 percent of the population living below the poverty level. The City has received requests from several local business owners for assistance in starting new businesses. The City has received requests from several local business for start-up assistance or to purchase new equipment and create 19 new jobs. The City has received requests from several local business for assistance in purchasing new equipment and creating 19 new jobs. The City has received requests from several local business for assistance in purchasing new equipment and creating 19 new jobs.

RBCS FY2019 Obligations									
Borrower or Grantee	State	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description	
MIDWESTERN STATE UNIVERSITY	TEXAS	RBOG	RBCS DEVELOPMENT GRANT	07/09/19	0	64,753		The Rural Development Investment will be used to continue technical assistance in the form of a grant to the Texas Rural Development Center (TRDC). The TRDC will continue to provide technical assistance to rural business development centers through the presence of a Rural Business Development Center (RBDC). The Rural Business Development Center (RBDC) will continue to provide technical assistance to rural business development centers through the presence of a Rural Business Development Center (RBDC). The RBDC will offer consulting and training and will travel to these communities three to four times monthly.	
MONAHAN INVESTMENT LLC	TEXAS	BI	GUARANTEED B&I 3% FEE LOAN	11/19/18	6,000,000	0		The Rural Development investment will be used to construct a Hampton Inn & Suites hotel in the city of Monahan, Texas. The hotel will be constructed on a 15-acre site and will have 0.29 acres. The borrower is anticipating on creating 15 jobs, 11 full time and 4 part time and an average wage rate of \$17.50.	
NEED IT MORE LP	TEXAS	EED	MAND.ENERGY EFFICI IMPROV GRANTS UNDER \$20,000	03/06/19	0	17,580		The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This project will upgrade irrigation at Need It More LLC A and B. The electricity saved will offset the energy consumed, with a yearly savings of 239,125 kWh expected, enough to power 39 homes, and \$9,142.10 dollar value of energy saved.	
NICK PARKER CONSULTING, LLC	TEXAS	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/26/19	0	12,500		The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This project will install Hydrogen. The electricity produced will offset the energy consumed, with a yearly production of 25,770 kWh expected, enough to power 2 homes, and \$1,811.1 dollar value of energy produced.	
OTA COMPRESSION, LLC	TEXAS	BI	GUARANTEED B&I 3% FEE LOAN	04/19/19	4,105,000	0		The Rural Development loan guarantee will be used to provide long-term financing for an oil field equipment manufacture and service business at a commercial property in Garbary, Hood County, Texas. The purpose of the loan is to refinance a short-term loan for the equipment used in the oil field. The borrower is anticipating on creating 15 jobs, 11 full time and 4 part time. The borrower is also paying down the borrower's accounts payable associated with the Garbary, Texas, facility. With the refinancing of this short-term debt by the guaranteed loan and the loan guarantee, the borrower will be able to continue to operate the business and produce equivalent (both) with an average wage of \$28.98 per hour. Total project is \$10,347.24, with \$6,000,000 being provided by the lender and \$28,424.04 being funded by the borrowers.	
PAUL VANDERPOORTEN, JR	TEXAS	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/06/19	0	9,351		Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This project will install a 8 kW photovoltaic solar array. The electricity produced will be offset by the energy consumed, with a yearly production of 13,258 kWh expected, enough to power 2 homes, and \$1,328.00 dollar value of energy produced.	
PRAMUKH DARSAN MANAGEMENT, LLC	TEXAS	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	07/10/19	0	49,625		The Rural Development investment will be used to install a 800kW solar array. It will produce 0.125,381 kw annually, enough to power 11 homes, worth approximately \$18,000.00.	
PRAMUKH DARSHAN GROCERIES, LLC	TEXAS	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/21/19	0	19,875		The Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This project will install 20kW solar array. The electricity produced will offset the energy consumed, with a yearly production of 35,500 kWh expected, enough to power 3 homes, and \$4,877.03 dollar value of energy produced.	
SABAGANAW C I 2 LLC	TEXAS	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	07/10/19	0	36,675		The Rural Development investment will be used to install a 800kW solar array. It will produce 0.125,381 kw annually, enough to power 160 homes, worth approximately \$17,000.00.	
SANJHU LOGGING, INC.	TEXAS	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	07/10/19	0	49,625		The Rural Development investment will be used to install a 800kW solar array. It will produce 0.123,372 kw annually, enough to power 11 homes, worth approximately \$17,000.00.	
SIN HOSPTAITY, LLC	TEXAS	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	07/10/19	0	49,625		The Rural Development investment will be used to install a 800kW solar array. It will produce 0.125,150 kw annually, enough to power 11 homes, worth approximately \$18,000.00.	

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
TEXAS	TEXAS AMU UNIVERSITY - KINGSVILLE	EEI	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/06/19	0	16,808.54	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This project will upgrade irrigation at Southwest Ag Farms LLC dba Southwest Ag. The electricity saved will offset the energy consumed, with a yearly savings of 687,857 KWH expected, enough to power 40 homes, and \$6,110.22 dollar value of 0 energy saved.
TEXAS	STERLING SOLAR, LLC	BI	GUARANTEED BAI 3% FEE LOAN	10/29/18	6,000,000	0	0	Rural Development funds will be used to construct a 14,263 MWDC solar project located in Greenville, Hunt County, Texas. The total project cost is \$18,272,817. The energy generated (14,263 MWDC) will be sold to the local utility, and the project will be owned by the borrower. Texas is a deregulated market state, so residential consumers & business owners in competitive areas in the 254 counties can choose their retail electric provider. The investment will benefit all electric consumers (residential & business) in competitive areas in the 254 counties in Texas. These jobs will be created as a result of the investment, the investment will benefit all electric consumers (residential & business) in competitive areas in the 254 counties in Texas.
TEXAS	TEXAS AMU UNIVERSITY - KINGSVILLE	REAR	RENEWABLE ENERGY DEVP ASSISTANCE GRANTS	03/26/19	0	33,433	0	This project will be used to provide technical assistance to agricultural producers and rural small businesses to 1) increase awareness of the energy benefits of wind, solar, and biomass in South Texas by providing technical feasibility and feasibility economic feasibility analysis; 2) Promote energy independence by increasing the utilization of renewable energy resources in the region.
TEXAS	TOP NOTCH EQUIPMENT, LLC	EEI	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	03/06/19	0	15,552	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This project will upgrade irrigation at Top Notch Equipment, LLC. The electricity saved will offset the energy consumed, with a yearly savings of 687,857 KWH expected, enough to power 63 homes, and \$10,198.96 dollar value of 0 energy saved.
TEXAS	UNIVERSITY OF TEXAS - RIO GRANDE VALLEY	SSDRG	PERSISTENT POVERTY GRANTS TO ASSIST MINORITY PRODUCERS	05/16/19	0	174,856	0	Rural Development grant funds will be used to deliver targeted technical assistance to South Texas Strategic Group throughout a high poverty 41 county rural South Texas region.
TEXAS	UNIVERSITY OF TEXAS - RIO GRANDE VALLEY	RCDG	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/17/19	0	199,724	0	Rural Development grant funds will be used to provide technical assistance to 41 counties in the Rio Grande Valley region.
TEXAS	VILLAGE CHICKEN FARMS, LLC	REAP	REAP-MAND.ENERGY EFF IMPROV GRANTS	07/10/19	0	48,897	0	The Rural Development investment will be used to install poultry house upgrades. It will save 223,101 lbs of energy, enough to power 20 homes, saving approximately \$17,000.00.
TEXAS	WEST MOORE SOLAR II, LLC	BI	GUARANTEED BAI 3% FEE LOAN	10/29/18	3,150,000	0	0	This Rural Development loan guarantee investment will be used to fund a 7.1 MW solar electric power generation facility in Texas. The energy generated by the facility will be sold to the local utility, and the project will be owned by the borrower. Texas is a deregulated market state, so residential consumers & business owners in competitive areas in the 254 counties can choose their retail electric provider. The investment reduces the reliance on fossil fuel consumption reducing greenhouse gas emissions. 3 jobs will be created as a result of the investment, the investment will benefit all electric consumers (residential & business) in competitive areas in the 254 counties in Texas. The project is in Grayson 0 County Texas. TX-04 John Ratcliffe
TEXAS	ZANKHANA SHUKLA DBA JSK INVESTMENTS	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/06/19	0	19,875	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This project will install a 20 kW photovoltaic solar array. The electricity saved will offset the energy consumed, with a yearly savings of 12,860 KWH expected, enough to power 2 homes and \$3,943.20 dollar value of energy replaced.
UTAH	AE PROPERTIES LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	04/16/19	0	32,265	0	This Rural Development investment will be used for the purchase and installation of a 54 kW solar array. AE Properties LLC, will realize \$6707 per year in savings, and will replace 12,860 KWH of energy consumed annually. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

RBCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
UTAH	BC 220 LC	EEl	MAND ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	04/10/19	0	19,954		The Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting throughout the store. BC 220 LC, dba Ace Hardware is a family owned and operated hardware and farm equipment store. This project will provide energy efficiency improvements to the store. The project will be used to purchase enough to power 14 homes. The purpose of this funding program is to assist farmers, ranchers and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations.
	BIGHAM CITY CORPORATION	RBEg	RBCS ENTERPRISE GRANTS	07/26/19	0	50,000		The project is to fund an engineering study for a rail crossing that will activate the 310+ acre Reader Ranch Business Park, for development in Box Elder County. The rail crossing will allow for the development of the 2400 W road that will provide access for future tenants of the property. The project will be used to make energy efficiency improvements to the property. The project will be used to make energy efficiency improvements to the property. The project will be used to make energy efficiency improvements to the property.
	BRUCE JOSEPHALTY, LLC	Bl	GUARANTEED B&I 3% FEE LOAN	09/17/19	7,500,000	0		The B&I loan guarantees for the construction and operation of an 86 room Holiday Inn Express Hotel in the town of Big Water, UT. The project will be used to make energy efficiency improvements to the property. The project will be used to make energy efficiency improvements to the property. The project will be used to make energy efficiency improvements to the property.
UTAH	CHILDS INDUSTRIES, LC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	02/27/19	0	16,240		The Rural Development investment will be used for the purchase and installation of a solar array that will provide 241 kW of power to the property. The project will be used to make energy efficiency improvements to the property. The project will be used to make energy efficiency improvements to the property. The project will be used to make energy efficiency improvements to the property.
UTAH	CITY OF GREEN RIVER	RBEg	RBCS ENTERPRISE GRANTS	07/18/19	0	25,000		The Rural Development investment will be used for the purchase and installation of a solar array that will provide 241 kW of power to the property. The project will be used to make energy efficiency improvements to the property. The project will be used to make energy efficiency improvements to the property. The project will be used to make energy efficiency improvements to the property.
UTAH	DELTA PLAN ONE, LLC	Bl	GUARANTEED B&I 3% FEE LOAN	05/06/19	3,663,360	0		The Rural Development investment will be used for the purchase and installation of a solar array that will provide 241 kW of power to the property. The project will be used to make energy efficiency improvements to the property. The project will be used to make energy efficiency improvements to the property. The project will be used to make energy efficiency improvements to the property.
UTAH	FRONTAGE GROUP, LLC	Bl	GUARANTEED B&I 3% FEE LOAN	11/29/18	2,838,200	0		The Rural Development investment will be used for the purchase and installation of a solar array that will provide 241 kW of power to the property. The project will be used to make energy efficiency improvements to the property. The project will be used to make energy efficiency improvements to the property. The project will be used to make energy efficiency improvements to the property.
UTAH	HALTERMAN BROTHERS INC.	REAP	REAP MANDATORY RENEW ENERGY SYST	04/23/19	0	187,770		The Rural Development investment will be used for the purchase and installation of a solar array that will provide 241 kW of power to the property. The project will be used to make energy efficiency improvements to the property. The project will be used to make energy efficiency improvements to the property. The project will be used to make energy efficiency improvements to the property.

RBCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Disbursed	Guaranteed Loan Amount	Grant Amount	Loan Amount
UTAH	HAMMER HEAD, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	04/16/19	0	39,621	
UTAH	KENTNELLY & ASSOCIATES, L.C.	EEl	MAND. ENERGY EFFIC IMPROV. GRANTS UNDER \$20,000	04/10/19	0	19,920	
UTAH	MJK CUSTOM FAB AND COATINGS LLC	EEl	MAND. ENERGY EFFIC IMPROV. GRANTS UNDER \$20,000	02/27/19	0	19,353	
UTAH	MORGAN HOTEL, LLC	BI	GUARANTEED 8& 3% FEE LOAN	08/02/19	4,500,000	0	
UTAH	RAM LODGING, LLC	BI	GUARANTEED 8& 3% FEE LOAN	12/12/18	5,000,000	0	
UTAH	S R MECHANICAL	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	02/27/19	0	19,952	
UTAH	SALT LAKE CITY CORPORATION	RREG	RREG ENTERPRISE GRANTS	06/13/19	0	50,000	
UTAH	SKYHAWK INVESTMENTS, LLC	BI	GUARANTEED 8& 3% FEE LOAN	04/04/19	4,310,200	0	
UTAH	SPARK INNOVATION, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST	04/16/19	0	24,620	

RBKS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
VERMONT	CATAMOUNT FILM AND ARTS, INC.	RIREG	RBKS ENTERPRISE REAP ZONE GRANTS	07/30/19	0	0	75,000	<p>The Rural Development investment will be used for planning, developing and implementation of a creative sector economic development plan that will provide training, jobs, technical support and infrastructure. This project will directly address the high rates of unemployment in the state and will provide a sustainable and viable mode of Creative Sector economic development</p> <p>0 that trains workers, boosts tourism and creates new jobs in local businesses.</p>
VERMONT	CENTRAL V ECONOMIC DEVELOPMENT CORP	RIIMP	DISCRETION ASSIST MICROENTERPRENUERS	09/25/19	0	0	42,893	<p>This Rural Development investment will be used to provide technical assistance to small businesses and entrepreneurs through the provision of education, guidance, or instruction to prepare them for self-employment and improve the state of existing rural microenterprises.</p> <p>0 Previous funding \$75,00 in Rural Development loans and grants.</p>
VERMONT	CGHM INDUSTRIAL STORAGE FACILITY, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/23/19	0	0	12,548	<p>This Rural Development investment will be used to install a 14.76kW roof mounted solar array. CGHM Industrial Storage, LLC is a property management company that provides storage facilities to individuals and small businesses. The new array is expected to offset the energy costs of the facility and will provide a sustainable and viable mode of renewable energy, and in making energy efficiency improvements to their operations.</p>
VERMONT	CHRISTA ALEXANDRA DRISCOLL	EEL	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/29/19	0	0	18,807	<p>The Rural Development investment will be used to make energy efficiency improvements to the home of Christa Alexandra Driscoll. Christa Driscoll runs her custom design company, Christa Alexandra Designs, from the old structure, and with some major insulating, a new energy efficient home will be constructed. The project will provide a sustainable and viable mode of renewable energy, and in making energy efficiency improvements to their operations.</p>
VERMONT	CYFIBER	RBDOG	RBKS DEVELOPMENT GRANT	07/11/19	0	0	25,000	<p>The Rural Development investment will be used to make energy efficiency improvements to the home of CyFiber. CyFiber is a technology company that provides a high speed internet network. The project includes communities in Lamoille, Orange, and Washington Counties. USDA funds will be augmented by state funds and in-kind matching from the applicant. The project is expected to create 14 new jobs.</p>
VERMONT	DOOLAN, KRISTAN L	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/11/19	0	0	8,049	<p>This Rural Development investment will be used to install a ground-mounted 12.4kW solar array. Kristin Doolan, co-owner of Does Leap Farm, will alleviate overhead by generating electricity from solar panels. The project will provide a sustainable and viable mode of renewable energy, and in making energy efficiency improvements to their operations.</p>
VERMONT	DOUGLAS CALDERWOOD DBA CALDERWOODS GRANT	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/29/19	0	0	7,878	<p>This Rural Development investment will be used to install a 14.6kW solar array on a barn roof. Calderwood Goat Dairy has grown rapidly since its 2016 inception, with the owners milking over 800 heerd year-round. This array will produce all of the farm's electricity needs, offsetting the cost of the farm's electricity. The project will provide a sustainable and viable mode of renewable energy, and in making energy efficiency improvements to their operations.</p>
VERMONT	FULL PLATE FARM LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/24/19	0	0	4,000	<p>This Rural Development investment will be used to install a 7.3kW roof-mounted solar array. Full Plate Farm is a community supported agriculture (CSA) and market farm that produces organic vegetables, fruits, and flowers. The project will provide a sustainable and viable mode of renewable energy, and in making energy efficiency improvements to their operations.</p>

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VERMONT	LEVIS, OLIVER DBA EARTH SKY TIME FARM	RES	MAND. RENEW EMERY SYSTEMS GRANTS UNDER \$20,000	03/26/19	0	19,845		<p>This Rural Development investment will be used to install a 22kW roof-mounted solar array. Earth Sky Time Farm is a third-generation farm and bakery and has expanded to become a local gathering place for the community of Manchester Center. The site hosts festivals and fundraisers, and the growing season is extended by the use of the solar array. The array will produce more than 50% of its energy needs. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
VERMONT	LUDLOW SIDE HILL CRONCHERS SM CLUB, INC.	REBG	RBGS ENTERPRISE GRANTS	07/16/19	0	29,000		<p>This Rural Development investment will be used by the Ludlow Side Hill Croncher's Snowmobile Club to purchase a new trail groomer. The groomer will assist the club in maintaining 38 miles of trails between the Towns of Ludlow and Mount Holy, Vermont. Trail grooming is an important activity for the club, and the groomer will be used to groom trails and utilize a range of services provided by local businesses. At a minimum, 14 area businesses will be supported by the economic activity generated by the maintained trails.</p>
VERMONT	LYNDON TOWN OF	REBG	RBGS ENTERPRISE REAP ZONE GRANTS	07/20/19	0	45,000		<p>This Rural Development investment will be used to expand the availability of the 2018 Vermont Economic Development Grants program. The program is designed to provide employment for businesses assisted. The town of Lyndon is located in the Rural Economic Development Zone, and the program will be used to provide grants to businesses in the zone. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations. This project is projected to assist 17 businesses and create 9 jobs within the next three years.</p>
VERMONT	MARSH, RICHARD L	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/09/19	0	59,224		<p>This Rural Development investment will be used to install a 7.9kW roof-mounted solar array. Fox Hill Storage will earn approximately \$17,400 in additional annual revenue from the sale of the electricity, estimated to be 99,000kWh. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
VERMONT	MORRISONS CUSTOM FEEDS INC. REAP	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/17/19	0	153,742		<p>This Rural Development investment will be used to install a 702kW ground-mounted solar array. Morrisons Custom Feeds is a feed store and feed mill located in New England for over 20 years. The company's feed mill is a significant part of the local agricultural community. This solar array will produce all of the electricity required by the business, plus allow them to net meter the balance, resulting in a significant savings in the cost of electricity. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>
VERMONT	NATIVEENERGY INC.	REAP	REAP-MAND RENEW ENERGY SYS LNGT COMBO GUAR	07/26/19	140,000	0	0	<p>This Rural Development investment will be used to purchase and install an anaerobic digester system in the town of New England. The system will produce both a grant and a loan guarantee from the Rural Energy for America Program (REAP). Using the measure from 200 cows, the 44kW generators are expected to produce 346,886kWh of electricity annually. The system will also produce 1,000,000 gallons of biogas annually, which is the wholly-owned subsidiary created to own the system. The system will gross just under \$75,000 annually by selling all of the power to the grid. Mascoma Bank is the leader in the project, and Ben and Jerry's Homemade is purchasing the Verified Emissions Reductions (VERs). The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.</p>

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VERMONT	ST. JOHNSBURY TOWN OF	RREG	RBCS ENTERPRISE REAP ZONE GRANTS	07/25/19	0	22,040	0	This Rural Development investment will fund a feasibility study for a new food co-op to be established in St. Johnsbury area. Project activity includes a market study, selection and analysis of three sites, financial projections and public outreach. The project will leverage 0 matching funds.
VERMONT	THE CENTER FOR AN AGRICULTURAL ECONOMY	RREG	RBCS ENTERPRISE REAP ZONE GRANTS	07/25/19	0	31,200	0	This Rural Development investment will be used to provide technical assistance and business loans to assist businesses in navigating the challenges of running small and emerging food system businesses. Assistance will include one-on-one technical assistance to assess needs, prioritize services needed. Business services will include the creation of a business plan, marketing strategy, and financial projections.
VERMONT	TONY DWYERS LOGGING LLC	EEL	MANAGING EFFICIENT IMPROV GRANTS UNDER RBCS	05/28/19	0	12,465	0	This Rural Development investment will be used to install a more efficient kiln drying system for a firewood producer. Tony Dwyer's Logging produces high quality, kiln-dried firewood. The current drying system is inefficient both cost-wise and time-wise, burning 1.5 cords of wood per cord of finished product. The new system will reduce fuel costs by 40% and drying time by 40%, and the carbon footprint will be reduced by 17%. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
VERMONT	TOWN OF FAIR HAVEN	RREG	RBCS ENTERPRISE GRANTS	07/11/19	0	29,000	0	This Rural Development investment will be used to capitalize a revolving loan fund that the town of Fair Haven will utilize to support locally identified economic priorities. This project will be used to assist 6 local businesses and to create 6 new jobs.
VERMONT	TOWN OF FOUNTAIN	RREG	RBCS ENTERPRISE GRANTS	07/16/19	0	29,000	0	This Rural Development investment will be used to hire a Downtown Economic Development Coordinator to explore, obtain, and administer resources for the Downtown and Village Center area. The coordinator will provide direct technical assistance to the town and businesses to spur economic development, creating and retaining jobs. A minimum of 3 jobs are expected to be created and/or saved by the project.
VERMONT	TOWN OF READSBORO	RREG	RBCS ENTERPRISE GRANTS	07/11/19	0	29,000	0	This Rural Development investment will be used to support the first phase of the Readsboro Broadband Expansion Project. Funds will be used to assess market demand, implementation of a pre-engineering study, analysis of legal and financial considerations, and to fund the construction of a new broadband network. The project is expected to create 5 new jobs and retain 8 existing jobs.
VERMONT	TOWN OF WATERFORD	RREG	RBCS ENTERPRISE REAP ZONE GRANTS	07/18/19	0	30,000	0	This Rural Development investment will be used to conduct a study to determine the improvements needed to bring the Lower Waterford Congregational Church building up to code. The study will include a structural analysis, energy audit, and a feasibility study for adaptive reuse of a community center.
VERMONT	VERMONT S&B CORPORATION	IRP	INTERMEDIARY RELENDING PROGRAM	09/04/19	0	0	1,000,000	Rural Development funds will be used to provide low-interest loans to small and low-income businesses and individuals. The program will be used to assist 9 small rural businesses retain 50 full time equivalent jobs and create 25 full time equivalent jobs.
VERMONT	VERMONT COUNCIL ON RURAL DEVELOPMENT	RREG	RBCS ENTERPRISE REAP ZONE GRANTS	09/01/19	0	85,400	0	This Rural Development investment will support the Vermont Council on Rural Development's Community Visit Program for 3 Northeast Kingdom Vermont towns. The process brings deep community engagement processes, facilitation, coaching, technical assistance, and financial support to rural communities. The program is designed to provide for community revitalization and economic viability. The applicant is providing matching 0 funds and the project is expected to create 2 new jobs and retain 2 existing jobs.
VERMONT	VERMONT ELECTRIC COOPERATIVE INC.	REAR	RENEWABLE ENERGY DEVELOPMENT ASSISTANCE GRANTS	03/22/19	0	98,748	0	This Rural Development investment will be used throughout 8 counties within the state of Vermont to provide technical assistance and financial support to rural small businesses and agricultural producers. These site assessments will provide the necessary analysis to replace fossil-fuel based systems with renewable biomass. The purpose of this program is to provide rural small businesses and agricultural producers with developing renewable energy systems, and in making energy efficiency improvements to their operations.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
VERMONT	VERMONT RURAL EDUCATION COLLABORATIVE	RREG	RBCS ENTERPRISE REAP ZONE GRANTS	07/01/19	0	85,000	0	This Rural Development investment will provide technical assistance to farmers through aggregation and distribution services to institutional a wholesale markets. In addition, the project will provide sales and marketing services for small to mid-sized farmers and food processors and increase demand for local food by consumers.
VERMONT	VERMONT SMALL BUSINESS DEV CORP	IRP	INTERMEDIARY RELENDING PROGRAM - E2EC	07/31/19	0	0	250,000	Rural Development funds will be used to provide low-interest loans to small and low income business owners, including agricultural entities, for purposes of businesses and community development in the rural areas of Vermont. The funds will assist an estimated 2 rural businesses (Chandlers, Essex, and Orleans counties). The funds will assist an estimated 2 rural businesses retain and/or create 4 full-time equivalent jobs.
VERMONT	VERMONT SMALL BUSINESS DEV CORP	IRP	INTERMEDIARY RELENDING PROGRAM	01/01/19	0	0	1,000,000	Rural Development funds will be used to provide low-interest loans to small and low income business owners, including agricultural entities, for purposes of businesses and community development as well as job creation and retention throughout the entire state of Vermont. The funds will assist an estimated 25 rural businesses retain 36 jobs and create 25 jobs.
VERMONT	VITAL COMMUNITIES, INC	RREG	RBCS ENTERPRISE GRANTS	09/11/19	0	19,847	0	This Rural Development investment will support technical assistance aimed at supporting Vermont's rural food systems and economic development. Activities will include: providing focused on digital promotion and website development, conduct an impact analysis of the effect of local purchasing, and launch a crowdfunding platform. The applicant is providing matching funds for the project which is anticipated to support rural business and create 4 jobs.
VERMONT	VT HOUSING & CONSERVATION BOARD	RREG	RBCS ENTERPRISE REAP ZONE GRANTS	07/01/19	0	98,471	0	This Rural Development investment will support the Firm and Forest Viability Program's efforts to provide technical assistance to rural businesses and communities in the Northeast Kingdom. The project's primary objective is to enhance the long-term economic viability of working landscape businesses in the region as a tool for rural economic development and to improve the livelihoods of rural business owners.
VERMONT	VT HOUSING & CONSERVATION BOARD	RREG	RBCS ENTERPRISE GRANTS	07/15/19	0	29,000	0	This Rural Development investment supports the 2nd phase of the Vermont Conservation Board's Food Hub Collaborative Project. This project aims to both build a transactional network for local food aggregation and distribution and to educate producers and then launch a food hub in the Northeast Kingdom and make effort that Vermont's local food market (Vermont, New England, and New York). The intention is to improve inter-food hub trade and logistics, better understand local and regional markets, and then reach these markets from both the applicant and the High Meadows Fund. It is expected to create 5 new jobs and save 0.21.
VERMONT	VT MAPLE SUGAR CO DBA BUTTERNUT FARM	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	09/18/19	0	28,079	0	This Rural Development investment will be used to purchase and install new equipment for energy efficiency improvements to the applicant's existing energy system. The project's purpose is to reduce energy consumption by almost 25%, saving an estimated \$3,300 annually. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in improving their energy systems, and in making energy efficiency improvements to their operations.
VERMONT	REBETON WELLNESS, LLC	BI	GUARANTEED 6M 3% FEE LOAN	10/01/18	2,100,000	0	0	Rural Development loan guarantees funds will be used for the acquisition of the Rehabilitation Center at Beeson Hill. Rehabilitation Center at Beeson Hill is a health club and a fully furnished gym with free weights and individual stations, separate cardio building variety of fitness classes, pool, open studio, child care, restaurant, and personal training available. The facility is a multi-use facility that will provide a variety of services to the community and also offers multi-disciplinary staff of chiropractors, physical therapists, athletic trainers, exercise physiologists and massage therapists. It also offers spinal decompression, aqua aerobics, and group fitness classes. The project is expected to create 22 jobs for the community.

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VIRGINIA	CARIBBEAN CRANE & RIGGING, LLC	BI	BUSINESS & INDUSTRY GUARANTEED LOAN - 1%	09/20/19	5,000,000	0	0	Rural Development loan guarantee funds will be used to purchase heavy construction equipment. The borrower, Caribbean Crane & Rigging LLC (CC&R), is a newly formed entity that is 100% owned by Mr. Patrick Vivot. The company was formed to purchase and install heavy construction equipment for the purpose of creating jobs in the area. The project is located in the area of the Chesapeake Bay Refining to accelerate the large project of restarting the refinery operations. This project will create 40 jobs and save \$84 jobs for the community.
				09/20/19	5,000,000	0	0	Rural Development loan guarantee funds will be used to purchase commercial retail real estate properties in St. Croix, Virgin Islands. The subject is located in the south central part of the island. The property is located off of a secondary road that runs behind the Golden Rock Shopping Center, in an area that is a mixture of industrial, commercial and residential. The property is owned by a business consisting of multiple buildings. This project will create 0.2 jobs for the community.
	ORANGE GROVE REAL ESTATE, LLC	BI	GUARANTEED BAI 3% FEE LOAN	09/20/19	1,100,000	0	0	Rural Development loan guarantee funds will be used to purchase equipment to be leased to the community. The borrower, Orange Grove Real Estate, LLC, is a newly formed entity that is 100% owned by Mr. Patrick Vivot. The company was formed to purchase and install heavy construction equipment for the purpose of creating jobs in the area. The project is located in the area of the Chesapeake Bay Refining to accelerate the large project of restarting the refinery operations. This project will create 38 jobs for the community.
				12/19/18	5,000,000	0	0	Rural Development loan guarantee funds will be used to purchase heavy construction equipment, namely cranes. This equipment will be leased immediately to one of the contractors to begin the enormous project of restarting the refinery operations in St. Croix, Virgin Islands. The subject is located in the south central part of the island. The project is located off of a secondary road that runs behind the Golden Rock Shopping Center, in an area that is a mixture of industrial, commercial and residential. The property is owned by a business consisting of multiple buildings. This project will create 0.2 jobs for the community.
	VIRGIN ISLAND LOGISTICS, LLC	BI	GUARANTEED BAI 3% FEE LOAN	12/19/18	5,000,000	0	0	Rural Development loan guarantee funds will be used to purchase heavy construction equipment, namely cranes. This equipment will be leased immediately to one of the contractors to begin the enormous project of restarting the refinery operations in St. Croix, Virgin Islands. The subject is located in the south central part of the island. The project is located off of a secondary road that runs behind the Golden Rock Shopping Center, in an area that is a mixture of industrial, commercial and residential. The property is owned by a business consisting of multiple buildings. This project will create 0.2 jobs for the community.
				12/19/18	5,000,000	0	0	Rural Development loan guarantee funds will be used to purchase heavy construction equipment, namely cranes. This equipment will be leased immediately to one of the contractors to begin the enormous project of restarting the refinery operations in St. Croix, Virgin Islands. The subject is located in the south central part of the island. The project is located off of a secondary road that runs behind the Golden Rock Shopping Center, in an area that is a mixture of industrial, commercial and residential. The property is owned by a business consisting of multiple buildings. This project will create 0.2 jobs for the community.
	ADVANCED CONCRETE FOUNDATIONS, INC.	RES	MANU. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/04/19	0	12,250	0	This Rural Development investment will be used for the purchase and installation of a 101.97kW roof mounted solar system. Agri-Venture Acres, LLC, a family owned poultry farm, is located in the area of the Chesapeake Bay Refining to accelerate the large project of restarting the refinery operations. This project will create 40 jobs and save \$84 jobs for the community.
				04/04/19	0	12,250	0	This Rural Development investment will be used for the purchase and installation of a 101.97kW roof mounted solar system. Agri-Venture Acres, LLC, a family owned poultry farm, is located in the area of the Chesapeake Bay Refining to accelerate the large project of restarting the refinery operations. This project will create 40 jobs and save \$84 jobs for the community.
	AGRI-VENTURE ACRES, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/10/19	0	46,850	0	This Rural Development investment will be used for the purchase and installation of a 101.97kW roof mounted solar system. Agri-Venture Acres, LLC, a family owned poultry farm, is located in the area of the Chesapeake Bay Refining to accelerate the large project of restarting the refinery operations. This project will create 40 jobs and save \$84 jobs for the community.
				04/04/19	0	5,068	0	This Rural Development investment will be used for the purchase and installation of a 101.97kW roof mounted solar system. Agri-Venture Acres, LLC, a family owned poultry farm, is located in the area of the Chesapeake Bay Refining to accelerate the large project of restarting the refinery operations. This project will create 40 jobs and save \$84 jobs for the community.
VIRGINIA	BEEHIVE EVENTS, INC.	RES	MANU. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	07/24/19	0	38,000	0	This Rural Development investment will be used for the purchase and installation of a 101.97kW roof mounted solar system. Agri-Venture Acres, LLC, a family owned poultry farm, is located in the area of the Chesapeake Bay Refining to accelerate the large project of restarting the refinery operations. This project will create 40 jobs and save \$84 jobs for the community.
				04/04/19	0	12,250	0	This Rural Development investment will be used for the purchase and installation of a 101.97kW roof mounted solar system. Agri-Venture Acres, LLC, a family owned poultry farm, is located in the area of the Chesapeake Bay Refining to accelerate the large project of restarting the refinery operations. This project will create 40 jobs and save \$84 jobs for the community.

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VIRGINIA	BRENT MAJOR, LLC BRIDGEWELL, TOWN OF	RES RDOG	MAND. RENEW EMERGY SYSTEMS GRANTS UNDER \$20,000 RBGS DEVELOPMENT GRANT	05/28/19 07/28/19	0	0	14,823 25,000	This Rural Development investment will be used for the purchase and installation of a 19 kW ground mount solar array. Brent Major, LLC is a rural winery in Nelson County, VA. This project will generate 26,022 kWh annually to offset annual energy consumption. The total project cost is \$24,518 with \$14,823 coming from borrower contribution, and \$9,695 coming from borrower contribution and state grant. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
VIRGINIA	CHATEAU MORRISSETTE, INC.	BI	GUARANTEED BAI 3% FEE LOAN	11/06/18	2,500,000	0	0	This Rural Development loan guarantee investment will be used to enhance existing debt purchase order equipment, working capital and fees/costs for Chateau Morrisette, Inc., a rural winery in Floyd, VA. This loan will allow Chateau Morrisette, Inc. to obtain better loan terms on existing and new debt. The loan will be used to purchase additional equipment. Additional funding includes a revolving line of credit from First Bank and Trust in the amount of \$100,000.
VIRGINIA	CHERRYBART FARMS, LLC CHILHOME, TOWN OF	REAP RBEG	REAP MAND. ENERGY EFF. IMPROV. GRANTS RBGS ENTERPRISE GRANTS	09/05/19 07/28/19	0	0	51,698 33,900	This Rural Development investment will help finance energy efficient improvements to a residential home. The project will be used to purchase and install a new furnace and converting from batch drying to hot drying and storage, resulting in 77.91% energy savings. The total project cost is \$126,783 with \$96,089 coming from borrower contribution. Zero jobs will be created.
VIRGINIA	COMMUNITY INVESTMENT COLLABORATIVE	RBEG	RBGS ENTERPRISE GRANTS	07/29/19	0	0	60,000	0 Rural Development funds will be used to construct a farmers market.
VIRGINIA	COOPERATIVE DEVELOPMENT FOUNDATION	SSDPG	SMALL BUSINESS SOCIALLY DISADVANTAGED PRODUCER GRANT	09/17/19	0	0	0	0 Rural Development funds will be used to construct a farmers market.
VIRGINIA	COOPERATIVE DEVELOPMENT FOUNDATION	RDOG	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/11/19	0	200,000	0	This Rural Development investment will be used to provide technical assistance that focuses on the development and execution of a national strategy for rural home care cooperative development. A portion of funds will support Co-op's long-term investment to assist the sustainability food system. The project will be used to support food cooperatives. Tasks include a national industry training event, sponsoring "pre-feasibility" studies, conducting feasibility studies, procuring implementation of new financing vehicle for homecare coops, and providing technical assistance to food cooperatives. Total project cost is \$267,000 with \$67,000 coming from borrower contribution. 0 Fifteen jobs will be created and one job will be saved.
VIRGINIA	COPPER CROCKET FARM, LLC	RES	MAND. RENEW EMERGY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	8,172	0	This Rural Development investment will be used for the purchase and installation of a 11.06kW roof mounted solar array. Copper Crocket Farm, LLC is a farming operation that produce vegetables, fruits, and flowers in Northampton County, VA. This project will displace 100% of their annual energy usage. The total project cost is \$32,600 with \$24,518 coming from borrower contribution, and \$8,082 coming from borrower contribution and state grant. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
VIRGINIA	CROSS-B-CREST FARM, LLC	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	04/09/19	0	32,240	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. The project will install a solar system to provide electricity for the farm's operations. The project will be used to purchase and install a proposed system is expected to generate enough electricity to power the equivalent of 40 homes.
VIRGINIA	DABREN, LLC DBA VALLEY CAR WASH T FLOYD COUNTY EDA	REAP RBEG	REAP MANDATORY RENEW ENERGY SYST GRANTS RBGS ENTERPRISE GRANTS	09/16/19 07/28/19	0	44,160 60,000	0	This Rural Development investment will be used for the purchase and installation of 76.8kW solar system on the property of Dabren, LLC, a rural car washing business in Winchester, VA. The project will generate 100,000 kWh annually to offset annual energy consumption. The total project cost is \$176,640 with \$132,480 coming from borrower contribution. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

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VIRGINIA	FRANJILLO FARM, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	5,374		This Rural Development investment will be used for the purchase and installation of a 61.18 kW ground mounted solar system on a crop and turkey farm in Harrisonburg, VA. This system is estimated to displace 58% of their annual energy usage. This project will save enough money to pay for itself in less than 10 years. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
VIRGINIA	FRANKLIN LUMBER, LLC	REAP	REAP-MAND. ENERGY EFF. IMPROV. GRANTS	07/23/19	0	35,774		This Rural Development investment will be used for the purchase and installation of LED lighting in the mill building at Franklin Lumber, LLC in Farmington, VA. This project will generate 64% of annual energy savings. The total project cost is \$143,098 with \$107,322 coming from borrower contribution. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
VIRGINIA	FULLER, AUBREY	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/12/19	0	19,899		This Rural Development investment will be used to purchase and install a \$3,786 kW roof mounted solar system in Mount Sober, VA. This project will be installed on a poultry operation and is estimated to displace 58% of their annual energy usage. The total project cost is \$103,008 with \$85,001 coming from borrower contribution.
VIRGINIA	GOODE, KYLE EDWARD GRAYSON COUNTY	REAP RBEG	REAP-MANDATORY RENEW ENERGY SYST GRANTS RBGS ENTERPRISE GRANTS	07/29/19 07/23/19	0 0	42,867 45,300		This Rural Development investment will be used for the purchase and installation of a 76.56 kW ground mounted solar array on the property of Kyle Goode's Dairy Farm in Ferrum, VA. This project is estimated to displace 58% of their annual energy usage. The total project cost is \$199,800 with \$136,794 coming from borrower contribution. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
VIRGINIA	HOPNET SOLAR, LLC INDEPENDENCE, TOWN OF	REAP RBEG	REAP-MANDATORY RENEW ENERGY SYST GRANTS RBGS ENTERPRISE GRANTS	09/24/19 07/29/19	0 0	69,000 176,000		This Rural Development investment will be used for the purchase and installation of three different solar arrays totaling 466.7 kW atop three buildings at Shenandoah University in Winchester, VA. This project is estimated to displace 58% of their annual energy usage. The total project cost is \$1,100,000 with \$750,000 coming from borrower contribution. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
VIRGINIA	JOHNSON, TRENT	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/25/19	0	41,600		This Rural Development investment will be used for the purchase and installation of an 82kW solar system mounted on two poultry barn rooftops in Drake Branch, VA. This project is estimated to displace 58% of their annual energy usage. The total project cost is \$124,800 coming from borrower contribution. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
VIRGINIA	LISTENING POST, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	09/23/19	0	50,000		This Rural Development investment will be used for the purchase and installation of a 99.8kW grid tied solar PV system for Listening Post, LLC, a rural brewery in Warrenton, VA. This project will displace 15.4% of annual energy usage and is enough energy to power the brewery's operations. The total project cost is \$100,000 with \$50,000 coming from borrower contribution. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
VIRGINIA	MILLER, ZACHARY	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	04/09/19	0	40,796		This Rural Development investment will be used for the purchase and installation of a 75.9kW solar system in a farming operation in Charlottesville, VA. This project will displace 58% of their energy usage. The total project cost is \$100,000 with \$50,000 coming from borrower contribution. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
VIRGINIA	PAULSON RENEWABLE ENERGY, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/29/19	0	25,883	0	This Rural Development investment will be used to purchase and install a 250kW ground mounted solar system on a dairy farm. Paulson Renewable Energy LLC will be purchasing the system and selling electricity through a PPA to the Paulson Dairy Farm. This project will be completed by 10/1/2019.
VIRGINIA	PEABODY SOLAR, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	20,000	0	This Rural Development investment will be used to purchase and install a 100kW roof mounted solar system in Charlottesville, VA. This project will be installed on Peabody School located at 1232 Stony Ridge Road, Charlottesville, VA and is estimated to displace 50,000 kWh of annual electricity usage. Loan project costs are \$200,000 with \$200,000 coming from borrower contribution.
VIRGINIA	PA VANCEY LUMBER CORPORATION	EEL	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/28/19	0	17,131	0	This Rural Development investment will be used for the purchase and installation of LED lighting systems in the warehouse and shop. The project will be completed by 10/1/2019. The project will generate 48% of annual energy savings. The total project cost is \$88,523 with \$1,392 coming from borrower contribution. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations.
VIRGINIA	RAMISOL VINEYARDS, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/24/19	0	20,000	0	This Rural Development investment will be used for the purchase and installation of a 100kW ground and roof mounted solar array. Ramisol Vineyards, LLC is a rural winery in Farmington, VA. The project will be completed by 10/1/2019. The project will generate 48% of annual energy savings. The total project cost is \$200,578 with \$188,578 coming from borrower contribution. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations.
VIRGINIA	SHANE'S SIGNS, INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/09/19	0	14,625	0	This Rural Development investment will be used to assist a sign manufacturing business in Board Run, VA. Grant funds will be used to purchase and install a 22.5kW roof mounted solar array. The project will be completed by 10/1/2019. The project will generate 48% of annual energy savings. The total project cost is \$200,578 with \$188,578 coming from borrower contribution. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations.
VIRGINIA	SOUTHSIDE VA FRUIT AND VEG. PRODUCERS	REEG	RECS ENTERPRISE GRANTS	07/29/19	0	126,200	0	Rural Development funds will be used to assist the Southside Virginia Fruit and Vegetable Producers Association in purchasing a refrigerated truck to transport perishable fruit and produce to purchasers, with \$93,458 in federal funds requested and (2) Hire personnel to undertake the needed coordination, packaging and delivery services, with \$5,500 in federal funds requested and (3) Purchase a refrigerated truck to transport perishable fruit to purchasers, with \$27,242 in federal funds requested. The total project cost is \$104,408. 2 jobs will be created.
VIRGINIA	SOUTHWESTVA HIGHER ED. CENTER FOUNDATION	REQQ	RECS DEVELOPMENT GRANT	07/29/19	0	20,117	0	
VIRGINIA	SUNRISE FARMS, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/22/19	0	73,300	0	This Rural Development investment will be used for the purchase and installation of a 188.6kW ground mounted solar array on the property of Sunrise Farms, Inc., a family owned farm in Shades Draft, VA. This project will displace 100% of their annual energy usage and generate 100% of their annual energy savings. The total project cost is \$215,900 with \$215,900 coming from borrower contribution. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and in making energy efficiency improvements to their operations.
VIRGINIA	THE ADVANCEMENT FOUNDATION	REEG	RECS ENTERPRISE GRANTS	07/29/19	0	75,000	0	
VIRGINIA	THE CLIFTON FORGE COMPANY	REEG	RECS ENTERPRISE GRANTS	07/29/19	0	150,000	0	
VIRGINIA	TOWN OF BRIDGEWATER	REQQ	RECS DEVELOPMENT GRANT	07/29/19	0	30,000	0	
VIRGINIA	TRIFOLIUM, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/14/19	0	14,685	0	Rural Development funds will be used to assist farmers, ranchers, and rural small businesses in purchasing a 22.42 kW solar PV system to provide 100% of their energy usage. The project will install a 22.42 kW solar PV system to provide electricity to a farming operation that will displace 100% of their energy usage.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
VIRGINIA	TRIPLE R DAIRY, LLC WILLOW OAKS FARM, LLC WILLOW OAKS FARM, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/24/19	0	54,450	0	The Rural Development investment will be used for the purchase and installation of a 108.9 kW roof mounted solar array on the property of Triple R Dairy, LLC, a family owned poultry farm in Greens, VA. This project will displace 53% of their annual energy usage and will save \$1,119.158 coming from borrower contribution. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		RCDG	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/10/19	0	200,000	0	
	WAYNESBORO SOLAR, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/24/19	0	250,000	0	The Rural Development investment will be used for the purchase and installation of a 1 MW solar PV system to produce enough electricity to power 131 homes. This project will displace 31% of their annual energy usage and will generate enough savings enough electricity to power 131 homes. The total project cost is \$1,469,158 with \$1,119,158 coming from borrower contribution. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		RES	MAND. RENEW ENERFFY SYSTEMS GRANTS UNDER \$20,000	05/28/19	0	20,000	0	
VIRGINIA	WILLOW OAKS FARM, LLC WINTON FARM, LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/29/19	0	50,000	0	The Rural Development investment will be used for the purchase and installation of a 0.163MW ground mounted solar array on the property.
		EEL	MAND. ENERGY EFFICI IMPROV GRANTS UNDER \$20,000	04/04/19	0	19,373	0	
WASHINGTON	WASHINGTONTOILETH AVENUE, LLC	BI	GUARANTEED BAI 3% FEE LOAN	10/30/18	7,500,000	0	0	The Rural Development investment will be used for the purchase and installation of a 12 Mw solar PV system to produce enough electricity to power 131 homes. This project will displace 31% of their annual energy usage and will generate enough savings enough electricity to power 131 homes. The total project cost is \$1,469,158 with \$1,119,158 coming from borrower contribution. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		BI	GUARANTEED BAI 3% FEE LOAN	07/22/19	690,200	0	0	
WASHINGTON	WASHINGTONTOILETH AVENUE, LLC	RES	MAND. RENEW ENERFFY SYSTEMS GRANTS UNDER \$20,000	05/20/19	0	6,831	0	The Rural Development investment will be used for the purchase and installation of a 12 Mw solar PV system to produce enough electricity to power 131 homes. This project will displace 31% of their annual energy usage and will generate enough savings enough electricity to power 131 homes. The total project cost is \$1,469,158 with \$1,119,158 coming from borrower contribution. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		BI	GUARANTEED BAI 3% FEE LOAN	10/30/18	2,080,000	0	0	

Program	Borrower or Grantee	Date Origined	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
RES	WASHINGTON TO BAILEY, LARRY	03/15/19	0	6,120		Rural Development funds will be used to help fund the purchase and installation of a 8.64 kW solar photovoltaic roof top system. Grant Gibbins is a chicken farmer located in Pierce County, Washington. The grantee will generate an estimated 8,000 kWh and realize \$80 each year in savings. The energy generated is enough electricity to power one home. This program funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and making energy efficiency improvements to their operations.
RES	BEAN, GENTRY, WHEELER & WASHINGTON TO FETENELL, PLLC	04/12/19	0	8,366		The Rural Development investment will be used for the purchase and installation of a 12 kW solar photovoltaic roof top system. Grant Gibbins is a chicken farmer located in a poverty census tract in rural Olympia, WA. This solar PV system is estimated to produce enough electricity to replace 47% of the current usage at this facility and will save approximately \$1,200 per year. This program funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and making energy efficiency improvements to their operations.
RES	BLUE HERON FARM & NURSERY, WASHINGTON TO LLC	05/10/19	0	7,464		Rural Development funds will be used to help fund the purchase and installation of a 13kW PV solar system. Blue Heron Farm & Nursery is a nursery located in rural Shaght County, WA. The grantee is projected to generate 10,022 kWh of power, which is enough electricity to power one home. This program funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and making energy efficiency improvements to their operations.
REAP	WASHINGTON TO BROADWOOD FARMS INC	05/22/19	0	62,139		This RDO investment will be used for the purchase and installation of a 128 kW Solar PV System to assist the family owned Broadwood Farms in Kittitas county. This project will replace 170060 kwh (89.1% per year) and realize \$18,440 of average per year. The purpose of this program funding is to assist farmers, ranchers, and rural small business in developing renewable energy systems and making energy efficiency improvements to their operations.
REAP	WASHINGTON TO C & HOP FARM INC	05/23/19	0	45,162		his RDO investment will be used for the purchase and installation of a 134 kW Solar PV System to assist the family owned C & H Hop Farm inc. n Yakima county. This project will replace 170060 kwh (89.1% per year) and realize \$18,440 of average per year. The purpose of this program funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and making energy efficiency improvements to their operations.
RES	WASHINGTON TO CARBAS CABINETS INC	05/09/19	0	8,913		The Rural Development investment will be used for the purchase and installation of a 12.2 kW solar photovoltaic roof top system. Grant Gibbins is a chicken farmer located in Olympia, WA. This solar PV system is estimated to produce enough electricity to replace 60% of the current usage at this facility and will save the business approximately \$1,200 per year. This program funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and making energy efficiency improvements to their operations.
BI	WASHINGTON TO CHADWICK FC, INC.	10/20/18	\$75,000	0		The Rural Development loan guarantee investment will be used to fund the acquisition of an agribusiness business by the borrowers. Chadwick FC, Inc. and CTC Investments, LLC. The borrower is a family owned business that grows and markets organic vegetables and fruits for local food and agriculture. The project is expected to result in saving two full time jobs and creating three new jobs. The borrower is contributing "\$20,000 in cash towards the project.
REG	CHEHALIS TRIBAL LOAN FUND PO CHEHALIS BOX 336	06/18/19	0	40,000		Rural Development funds will help finance a developing Reservation/Native community specific Tribal Financial Empowerment Center in Grays Harbor County. Services would include financial counseling, credit counseling, and coaching to help tribal people become financially independent. The center will have staff from all 11 tribes and will be assisted about 0-21 new jobs and 10 jobs saved.

RBGS FY2019 Obligations

Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount
WASHINGTON COBALT ENTERPRISES, LLC	BI	BUSINESS & INDUSTRY GUARANTEED LOAN - 1%	04/01/19	3,696,000	0	
COMMUNITY COLLEGES OF WASHINGTON SPOKANE - DIST.17	RBEG	RBGS ENTERPRISE GRANTS	05/15/19	0	46,892	0
WASHINGTON ENTERPRISE FOR EQUITY	RWMP	DISCRETION ASSIST MICROENTERPRENEURS	09/25/19	0	10,468	0
WASHINGTON TO FRANK HOTELS LONG BEACH LLC	BI	GUARANTEED BAI 3% FEE LOAN	02/20/19	2,696,000	0	
FRANK HOTELS WESTPORT WASHINGTON MARINA LLC	BI	GUARANTEED BAI 3% FEE LOAN	07/22/19	2,400,000	0	
WASHINGTON TO FUNG PERFECT, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/02/19	0	9,222	0
GREEN RIVER COMMUNITY WASHINGTON COLLEGE	RBEG	RBGS ENTERPRISE GRANTS	05/14/19	0	44,004	0
WASHINGTON TO HEART PATH FARMS LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/10/19	0	7,193	0
WASHINGTON TO HILDE, JASON	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	06/04/19	0	20,776	0
WASHINGTON TO KENANDY, LLC	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	06/18/19	0	49,919	0
Project Description						
This Rural Development loan guarantee investment will be used to fund the reference of equipment and business acquisition loans incurred by the borrower, Cobalt Enterprises, LLC. The borrower is a machine shop specializing in aerospace manufacturing headquartered in Granite Falls, WA. The project is expected to result in saving 100 and creating 36 full time jobs.						
Rural Development funds will help fund equipment for a Industrial and Manufacturing Technology Certificate Program in Pend Oreille, Stevens and Ferry Counties in Northeast Washington. Local manufacturers have indicated the lack of skilled applicants and that they must search outside of the area for qualified people. This program will provide locals with the opportunity to gain skills and a certification that will allow them to be hired by local manufacturers. The plan to run 10 students annually through the program which should result in 10 new jobs being filled.						
Rural Development loan guarantee funds will be used to purchase and renovate an existing hotel in Long Beach, Washington. The project is expected to retain 15 and create 10 jobs. The borrower is a hotel chain with a long history of successful operations. The project is expected to result in saving 15 and creating 10 jobs. Percentage of Guarantee is 80%, Guarantee Fee is 3%, Annual Renewal Fee is 0.5%, Guarantee Investment Rate is 7.25% with Variable Rate, 28 year & 6 month term and WSJ Prime +1.75 (Adjusts every quarter).						
RD investment will be used to purchase Westport Marina Cottages preserving 9 existing jobs and providing additional business development for existing businesses in the Westport community. RD investment will be coupled with borrower invest of \$671,000.						
This Rural Development investment will be used for the purchase and installation of a 12 kw roof mount solar photovoltaic system. Fung Perfect, LLC is located in rural Shelton, WA. This solar PV system is estimated to produce enough electricity to replace 6% of the current usage at this facility and save this business approximately \$600 a year in utility costs. The energy to be produced with this system is enough to power one average household.						
Rural Development funds will help finance the purchase of distant learning equipment and provide technical assistance in order to offer remote instruction to owners and employees of small and emerging businesses in the Enumclaw and Buckley, Washington communities. It is anticipated that as many as 50 businesses will be assisted, 15 jobs created, and 5 jobs will be saved over the next three years as a result of the proposed activity.						
Rural Development funds will be used to help fund the purchase and installation of a 12kW solar system. Heart Path Farms is an essential of manufacturer in rural Island County, WA. The grantee is projected to generate 12,102 kWh of power, which is enough electricity to power 100 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and making energy efficiency improvements to their operations.						
Rural Development funds will be used to help fund the purchase and installation of a 42kW solar system. Jason Hilde is a scientist in rural Burlington, WA. The grantee is projected to generate 42,850 kWh of power, which is enough electricity to power 4 homes. The purpose of this funding program is to assist farmers, ranches, and rural small businesses in developing renewable energy systems and making energy efficiency improvements to their operations.						
This RD investment provides funding for the installation of a 93.3kW solar PV system that will replace a 105% of the energy used for the onion storage facility for this rural business in Grant County, WA. The purpose of this funding program is to assist farmers, ranches, and rural small businesses in developing renewable energy systems, and making energy efficiency improvements to their operations.						

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RSCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
WASHINGTON	NORTHWEST AGRICULTURE WASHINGTON BUSINESS CENTER	RDQ	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/19/19	0	200,000	0	Rural Development funds will be used to cover the cost of delivering rural cooperative development education and technical assistance to existing Cooperatives, potential groups, businesses and individuals in Northwest Washington State with emphasis on agricultural, rural economic development. The goal is to assist existing cooperatives to expand, assist new cooperatives to start, and assist individuals to start their own businesses. In the business model, this project will deliver education at events and workshops focusing on horticulture in the form of presentations statewide. This project aims to support creation of 15 new jobs as well as serve 30 jobs as a result of training of the cooperative business model.
								Rural Development funding will support Northwest Cooperative Development Center (NWCCO) in assisting eleven cooperative business and other business projects particularly in the areas of horticulture, manufactured housing, locally grown foods and other worker owned businesses. NWCCO will provide training and technical assistance to the businesses and individuals endeavoring to undertake the cooperative business model. The assistance will include education and research, cost analysis, strategic and business and capitalization planning, business model development, and marketing assistance. NWCCO will also provide technical translations to provide members of socially disadvantaged groups the opportunity to grow and prosper.
	NORTHWEST COOPERATIVE WASHINGTON DEVELOPMENT CENTER	SSDPG	SMALL SOCIALLY DISADVANTAGED PRODUCER GRANT	09/18/19	0	175,000	0	Rural Development investment will be used to support Rural Cooperative Development in the Northwest. NWCCO will provide training and technical assistance to the businesses and individuals endeavoring to undertake the cooperative business model. NWCCO will also provide technical translations to provide members of socially disadvantaged groups the opportunity to grow and prosper.
								Rural Development investment will be used to support Rural Cooperative Development in the Northwest. NWCCO will provide training and technical assistance to the businesses and individuals endeavoring to undertake the cooperative business model. NWCCO will also provide technical translations to provide members of socially disadvantaged groups the opportunity to grow and prosper.
	NORTHWEST COOPERATIVE WASHINGTON DEVELOPMENT CENTER	RDQ	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/18/19	0	200,000	0	Rural Development funds will fund the provision of training classes and one-on-one technical support to entrepreneurs and businesses in Sedro-Wooley, WA. Training will take place in the Sedro-Wooley Community Center. The project will also provide technical assistance and support to a new business park, which will be funded through other sources. Northwest Cooperative Development Center, a non-profit organization supporting the development and growth of rural cooperatives, will be assisted with technical assistance to explore business options and help launch new cooperatives by way of business planning, market analysis, cooperative model board development, and other events. This one year project aims to promote and assist the growth of rural cooperatives and other businesses in the Sedro-Wooley area and enhance the quality of life for rural residents.
								Rural Development funds will fund the provision of training classes and one-on-one technical support to entrepreneurs and businesses in Sedro-Wooley, WA. Training will take place in the Sedro-Wooley Community Center. The project will also provide technical assistance and support to a new business park, which will be funded through other sources. Northwest Cooperative Development Center, a non-profit organization supporting the development and growth of rural cooperatives, will be assisted with technical assistance to explore business options and help launch new cooperatives by way of business planning, market analysis, cooperative model board development, and other events. This one year project aims to promote and assist the growth of rural cooperatives and other businesses in the Sedro-Wooley area and enhance the quality of life for rural residents.
	NORTHWEST COOPERATIVE WASHINGTON DEVELOPMENT CENTER	RREG	RSCS ENTERPRISE GRANTS	06/05/19	0	21,065	0	Rural Development grant money will be used to fund the provision of energy audits to agricultural producers and rural small businesses in San Juan County, WA. The applicant must be a small business or individual who is a resident of San Juan County and its parishes plan to provide at least 15 energy audits to eligible businesses.
								Rural Development funds will be used to help fund the installation of energy efficiency improvements including replacement heat pumps, water heaters, and insulation. The program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and making energy efficiency improvements to their operations.
	CASCAS POWER & LIGHT WASHINGTON COOPERATIVE	REAR	REAP ENERGY AUDIT RECIPIENT	03/19/19	0	100,000	0	Rural Development funds will be used to help fund the installation of energy efficiency improvements including replacement heat pumps, water heaters, and insulation. The program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and making energy efficiency improvements to their operations.
								Rural Development funds will be used to help fund the installation of energy efficiency improvements including replacement heat pumps, water heaters, and insulation. The program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems and making energy efficiency improvements to their operations.
WASHINGTON	PATEROS-BREWSTER WASHINGTON COMMUNITY RESOURCE CTR	RREG	RSCS ENTERPRISE GRANTS	06/17/19	0	32,984	0	Rural Development funds will help fund equipment for the resource building currently leased by the Pateros-Brewster Community Resource Center in Pateros, WA. Following recent devastating fires the Community Resource Center was established to help those impacted by the fires. The center provides a safe place for the community to gather and share resources, furniture and computer equipment. The Community Resource Center works closely with the regional office of Work Source to provide resources and training.
								Rural Development funds will help fund equipment for the resource building currently leased by the Pateros-Brewster Community Resource Center in Pateros, WA. Following recent devastating fires the Community Resource Center was established to help those impacted by the fires. The center provides a safe place for the community to gather and share resources, furniture and computer equipment. The Community Resource Center works closely with the regional office of Work Source to provide resources and training.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
WASHINGTON	PROBABLY SHOULDNT DISTILLERY LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/12/19	0	7,145	0	Rural Development funds will be used to help fund the purchase and installation of a 9.9 kW photovoltaic system for a small business in rural Whatcom County, WA. The grantee will realize an estimated 10,761 kWh and \$1,184 each year in savings, which is enough electricity to power one home. The project will also provide technical assistance and training to the grantee on developing renewable energy systems and making energy efficiency improvements to their operations.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/12/19	0	7,145	0	Rural Development funds will be used to help fund the purchase and installation of a 11.7 kW photovoltaic system for a small business in rural Whatcom County, WA. The grantee will realize an estimated 9,813 kWh and \$981 each year in savings, which is enough electricity to power one home. The purpose of this funding program is to assist small businesses in developing renewable energy systems and making energy efficiency improvements to their operations.
	WASHINGTON TO RABBLE AND ROOST LLC SEATTLE ECONOMIC DEVELOPMENT FUND	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/09/19	0	7,759	0	Rural Development funds will be used to help fund the purchase and installation of a 11.7 kW photovoltaic system for a small business in rural Whatcom County, WA. The grantee will realize an estimated 9,813 kWh and \$981 each year in savings, which is enough electricity to power one home. The purpose of this funding program is to assist small businesses in developing renewable energy systems and making energy efficiency improvements to their operations.
		RMAP	DISCRETION ASSIST MICROENTERPRENEURS	09/25/19	0	39,114	0	USDA Rural Development investment will pay for Seattle Wholesale Grocers Market Cooperative to provide technical assistance, feasibility study for marketing opportunities for locally disadvantaged flower growers in rural areas of Washington and Oregon. The work will be conducted by rural small business owners in the growing industry and the cooperative business model. This project will provide tools, resources to improve marketing of product, business planning, mentoring and other relevant business training topics. The project will also provide technical assistance and training to the grantee on developing renewable energy systems and making energy efficiency improvements to their operations.
	WASHINGTON TO MARKET CO-OP	SSDFG	SMALL SOCIALLY DISADVANTAGED PRODUCER GRANT	09/19/19	0	175,000	0	This Rural Development loan guarantee investment will be used to fund the acquisition of a mode and RV park by the borrower, Shi Krishna LLC. The business currently operates as a mode and RV park. The project will provide tools, resources to improve marketing of product, business planning, mentoring and other relevant business training topics. The project will also provide technical assistance and training to the grantee on developing renewable energy systems and making energy efficiency improvements to their operations.
		BI	GUARANTEED BAI 3% FEE LOAN	01/29/19	662,000	0	0	This Rural Development investment will be used for the purchase and installation of a 12 kW photovoltaic system for a small business in rural Whatcom County, WA. The grantee will realize an estimated 10,761 kWh and \$1,184 each year in savings, which is enough electricity to power one home. The purpose of this funding program is to assist small businesses in developing renewable energy systems and making energy efficiency improvements to their operations.
	WASHINGTON TO BIMCHUK, KARENHE MAE	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	09/19/19	0	8,126	0	Rural Development funds will be used to help fund the purchase and installation of a 10 kW wind turbine. Small Acres is a farm that primarily produces vegetables and chicken eggs in rural Whatcom County, WA. The grantee will realize an estimated 10,761 kWh and \$1,184 each year in savings, which is enough electricity to power one home. The purpose of this funding program is to assist small businesses in developing renewable energy systems and making energy efficiency improvements to their operations.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/29/19	0	16,844	0	This Rural Development investment will be used throughout the state of Washington to conduct approximately 30 solar renewable energy and energy efficiency site assessments for rural small businesses and agricultural producers. These site assessments will provide technical assistance and training to the grantee on developing renewable energy systems and making energy efficiency improvements to their operations.
	WASHINGTON TO SMALL ACRES, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/29/19	0	16,844	0	This Rural Development investment will be used throughout the state of Washington to conduct approximately 30 solar renewable energy and energy efficiency site assessments for rural small businesses and agricultural producers. These site assessments will provide technical assistance and training to the grantee on developing renewable energy systems and making energy efficiency improvements to their operations.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/29/19	0	16,844	0	This Rural Development investment will be used throughout the state of Washington to conduct approximately 30 solar renewable energy and energy efficiency site assessments for rural small businesses and agricultural producers. These site assessments will provide technical assistance and training to the grantee on developing renewable energy systems and making energy efficiency improvements to their operations.
WASHINGTON	SNOHOMISH CONSERVATION DISTRICT	REAR	RENEWABLE ENERGY DEVELP ASSISTANCE GRANTS	03/27/19	0	100,000	0	This Rural Development investment will be used throughout the state of Washington to conduct approximately 30 solar renewable energy and energy efficiency site assessments for rural small businesses and agricultural producers. These site assessments will provide technical assistance and training to the grantee on developing renewable energy systems and making energy efficiency improvements to their operations.
		REAR	RENEWABLE ENERGY DEVELP ASSISTANCE GRANTS	03/27/19	0	100,000	0	This Rural Development investment will be used throughout the state of Washington to conduct approximately 30 solar renewable energy and energy efficiency site assessments for rural small businesses and agricultural producers. These site assessments will provide technical assistance and training to the grantee on developing renewable energy systems and making energy efficiency improvements to their operations.
WASHINGTON	SOUTHEAST WASHINGTON ECONOMIC DEV ASSOC	REEG	RBGS ENTERPRISE GRANTS	09/11/19	0	18,200	0	This Rural Development investment will be used throughout the state of Washington to conduct approximately 30 solar renewable energy and energy efficiency site assessments for rural small businesses and agricultural producers. These site assessments will provide technical assistance and training to the grantee on developing renewable energy systems and making energy efficiency improvements to their operations.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
WASHINGTON	WA TRUST FOR HISTORIC PRESERVATION	REOG	RBGS DEVELOPMENT GRANT	05/21/19	0	25,000		USDA Investment through its Rural Business Development Grant will be used to support Washington State Millwright Power Project which will result in the appearance, and image of down town commercial districts. This project will provide technical assistance, resources and training to six rural communities of Chain, Colfax, Dayton, Elmer, and Wapato. The project will also provide technical assistance and training to commercial districts in developing strategic economic development plans, providing technical assistance and resources such as training, mentoring and assessment reports to assist in the development of new and expanded businesses. It is expected that 11 new businesses and 20 new jobs will be realized.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/12/19	0	12,002		Rural Development funds will be used to help fund the purchase and installation of a 10.8 kW PV solar system for Westport Inn, LLC. The project will generate an estimated 10,476 kWh and \$1,152 each year in savings, which is enough electricity to power one home. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.
		EEL	MAND. ENERGY EFFICIENCY IMPROV. GRANTS UNDER \$20,000	04/12/19	0	7,079		Rural Development funds will be used to help fund the installation of energy efficiency improvements at a new building for Westport Inn, LLC. The project will generate an estimated 61,486.888 BTUs and \$1,129 each year in savings, which is enough electricity to power one home. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.
	WESTPORT INN, LLC DBA WESTPORT INN	BI	GUARANTEED 8M 3% FEE LOAN	05/26/19	2,050,000	0		Rural Development loan guarantee funds will be used to refinance a loan on CRE consisting of 100% equity on the family owned property. The project will replace 20,119 kWh of electricity with 100% renewable energy. The project will generate an estimated 10,476 kWh and \$1,152 each year in savings, which is enough electricity to power one home. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	06/19/19	0	76,441		Rural Development funds will be used to help fund the purchase and installation of a 132kW PV solar system. William E. Munson Company is a manufacturer of welded aluminum boats located in rural Shagit County, WA. The grantee is projected to generate 128,897 kWh of electricity each year, which is enough electricity to power one home. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.
		REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/24/19	0	190,009		Rural Development funds will be used to help fund the installation of a 100kW solar system with a biennial thermal oil heat exchange system. Grantline is capable of producing more than 10,000,000 BTUs using waste timber and slash from private land owners and timber companies delivered to the site. The heat will be used to warm greenhouses adjacent to the site. The heat will also be used to run dry firewood to be sold at local campgrounds and retail outlets. The site of the facility is the former US Forest Service nursery near Stabler, WA.
	WASHINGTON	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/24/19	0	190,009		RD investment will assist in the business acquisition of the existing Hampton Inn located in rural Shagit County, WA. The grantee is projected to generate 128,897 kWh of electricity each year, which is enough electricity to power one home. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.
		BI	GUARANTEED 8M 3% FEE LOAN	08/01/19	7,500,000	0		RD investment will be used to help fund the purchase and installation of a 18 kW solar system on the family owned property. The project will replace 20,119 kWh of electricity with 100% renewable energy. The project will generate an estimated 10,476 kWh and \$1,152 each year in savings, which is enough electricity to power one home. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.
	WEST VIRGINIA	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/22/19	0	11,687		Rural Development funds will be used to help fund the purchase and installation of a 18 kW solar system on the family owned property. The project will replace 20,119 kWh of electricity with 100% renewable energy. The project will generate an estimated 10,476 kWh and \$1,152 each year in savings, which is enough electricity to power one home. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.
		BI	GUARANTEED 8M 3% FEE LOAN	08/01/19	7,500,000	0		Rural Development funds will be used to help fund the purchase and installation of a 18 kW solar system on the family owned property. The project will replace 20,119 kWh of electricity with 100% renewable energy. The project will generate an estimated 10,476 kWh and \$1,152 each year in savings, which is enough electricity to power one home. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in making energy efficiency improvements to their operations.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
WEST VIRGIN	FRIENDS OF MONROE, INC.	RBEG	RBGS ENTERPRISE GRANTS	07/25/19	0	0	6,970	Rural Development investment funds will be used to support tourism in Monroe County with 0 online listings to increase collaborations, a unified calendar of events and interactive map.
								BSA guaranteed loan funds are being used to expand the existing Cordroy Inn, an existing historic hotel in Monroe County, Louisiana. The hotel was purchased in 2013 and was renovated in 1972. The current borrower purchased the hotel in 2013 and after renovations to the hotel added 3 restaurants on site. Guaranteed funds are being used to construct a new 30 room, 10,000 sq ft addition to the hotel to assist the borrower in providing guest accommodations. The project will also be used to assist the borrower in providing guest accommodations. Guaranteed loan funds will also be used for loan and professional fees. SSA is also providing a 7% loan for construction, working capital, loan fees and furniture, fixtures and equipment. The project will be used to assist the borrower in providing guest accommodations. The project will be used to assist the borrower in providing guest accommodations.
	HARPERS FERRY CHIROPRACTIC	BI	GUARANTEED 54% 3% FEE LOAN	04/22/19	7,500,000	0	0	This Rural Development investment will be used for the purchase and installation of a 10.23 kW solar array on the Harpers Ferry Chiropractic and Nutrition facility. The project will replace 13,788kWh (100%) per year and realize \$1,596 of saving per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/26/19	0	7,914	0	This Rural Development investment will be used for the purchase and installation of a 75 kW solar array. Harpers Ferry manages a family owned business and has been successful in their efforts to reduce energy costs. The project will replace 30,000 kWh (29%) per year. This project will save enough electricity to power 8 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	WEST VIRGIN HETZER REALTY, LLC	REAP	REAP-MAND ENERGY EFF. IMPROV. LOANS GUAR	07/09/19	72,000	0	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting and upgrades to HVAC systems on a commercial office building. The project will realize \$32,657 per year in savings, and will replace 378,331 kWh (15%) per year, which is enough electricity to power 31 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		REAP	REAP-MAND ENERGY EFF. IMPROV. GRANTS	07/22/19	0	57,847	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lighting and upgrades to HVAC systems on a commercial office building. The project will realize \$32,657 per year in savings, and will replace 378,331 kWh (15%) per year, which is enough electricity to power 31 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	INTER-STATE HARDWOODS	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/22/19	0	31,325	0	This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of a 27 kW solar array on the J. O. Dickinson office building. The project will replace 34,270 kWh (81%) per year and realize \$3,99 of saving per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
		RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/13/19	0	19,956	0	Rural Development investment funds will be used to support the development of new businesses and expand and strengthen existing businesses with a business coach, technical assistance, and a business plan. The project will be used to support the development of new businesses and expand and strengthen existing businesses with a business coach, technical assistance, and a business plan. The project will be used to support the development of new businesses and expand and strengthen existing businesses with a business coach, technical assistance, and a business plan.
	WEST VIRGIN KANAWHA COUNTY COMMISSION	RBEG	RBGS ENTERPRISE GRANTS	07/25/19	0	50,000	0	Rural Development investment funds will be used to support tourism in Kanawha County. There is a borrower contribution to the project of \$10,000.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
WEST VIRGIN	LEVEL 1 FASTENERS	REAP	REAP-MAND ENERGY EFF IMPROV GRANTS	07/24/19	0	8,392	0	This Rural Development investment will be used to make energy efficiency improvements to Level 1 Fasteners, a family-owned manufacturing firm that produces specialized bolts at its facility in Huntington, WV. This project will realize \$1,358 per year in savings, and will increase the energy efficiency of the facility by 10%. The project will also provide training and technical assistance to a portion of this funding program to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
	LOCAL LUMBER AND SUPPLY, LLC	BI	BUSINESS & INDUSTRY GUARANTEED LOAN- 1%	09/26/19	600,000	0	0	The RD investment will be used for the start-up of a lumber supply company known as Local Lumber & Supply, LLC located at RR1, 206A, Highway 14 in Williamson, WV, formerly known as the 84 Lumber store in rural Mingo County. B&I guaranteed loan funds are being used for the purchase of a new building, including flooring, painting, HVAC repair, insulation and the installation of new 0 counter tops. This project will create 8 new jobs.
	MARASA, LLC	EEl	MAND-ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	04/01/19	0	2,398	0	This Rural Development investment will be used to make energy efficiency improvements to Marasa LLC, an existing business that leases commercial space to a health care-related entity. This project will realize \$4,184 per year in savings, and will replace 35.951 kWh (63%) per year in energy. The project will also provide training and technical assistance to a portion of this funding program to assist farmers, ranchers, and rural small businesses in developing renewable energy 0 systems, and in making energy efficiency improvements to their operations.
	MCCOLLEY, CONNIE	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/27/19	0	9,082	0	This Rural Development investment will be used for the purchase and installation of a 7.2 kW solar array on Mrs. Connie McColey's craft shop. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy 0 systems and in making energy efficiency improvements to their operations.
	MCCOWEN, JAMES	RES	MAND-RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/27/19	0	10,665	0	This Rural Development investment will be used for the purchase and installation of a 10.8 kW solar array on the Hops Canning facility. This project will replace 13,823 kWh (101%) per year in energy. The project will also provide training and technical assistance to a portion of this funding program to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and 0 in making energy efficiency improvements to their operations.
	MISTY MOUNTAIN FARM LLC	BI	GUARANTEED B&I 3% FEE LOAN	10/29/18	460,000	0	0	This project involves the construction of a new barn with a commercial kitchen and banquet hall on the property of Misty Mountain Farm, LLC, located in Hardy County, WV. The facility will be used to rent space to individuals and groups for weddings, birthdays, showers, and other events for the area. The project will also provide training and technical assistance to a portion of this funding program to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and 0 in making energy efficiency improvements to their operations.
WEST VIRGIN	MUD RIVER POTTERY	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/29/19	0	3,350	0	This Rural Development investment will be used for the purchase and installation of a 1.3 kW solar array on the property of Mud River Pottery, located in Putnam County, WV. The project will realize 1,425 kWh (1.2%) per year. This project will save enough electricity to power less than one home. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in 0 making energy efficiency improvements to their operations.

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Direct Loan Amount
WEST VIRGINIA	WEST VIRGIN SOLAR ENERGY SOLUTIONS, LLC	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	07/08/19	0	48,988
	WEST VIRGIN SPROUTING FARMS CORP	RBEQ	RBCS ENTERPRISE GRANTS	07/25/19	0	49,966
	WEST VIRGIN SIAN, WILLIAM R	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	03/18/19	0	7,428
	SWI LEO DOG HARD CIDER WEST VIRGIN COMPANY	BI	BUSINESS & INDUSTRY GUARANTEED LOAN I/A	02/21/19	265,000	0
	WEST VIRGIN T'L FRUITS AND VEGE TABLES, LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/30/19	0	3,875
WEST VIRGINIA	WEST VIRGIN TECHNOCAP, LLC	REAP	REAP MANDATORY RENEW ENERGY SYST GRANTS	07/01/19	0	268,095
	WEST VIRGIN THREE SONS, LLC	REAP	REAP-MAND BUSINESS EFF IMPROV GRANTS	07/08/19	0	48,768
WEST VIRGINIA	WEST VIRGIN TRI-STATE LOCAL FOODS, INC.	RBEQ	RBCS ENTERPRISE GRANTS	07/23/19	0	25,739
	WEST VIRGIN UNLIMITED FUTURE INC	RBEQ	RBCS ENTERPRISE GRANTS	07/25/19	0	50,000

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
WEST VIRGIN	WOODLANDS COMMUNITY	RMAP	MAND. RURAL MICROENTERPRISE OULP ORG LOANS	07/23/19	0	0	500,000	This Rural Development investment will be used to establish a revolving loan fund in West Virginia's Polioptic Highlands region of the state. The funds will be used to make micro loans to small businesses in three counties: Barbour, Randolph, and Tucker. The Rural Microenterprise Revolving Fund Program is used to support small business development in rural areas of the state.
								Rural Development Loan and grant funds will be used to capitalize a Rural Microloan Revolving Fund to make microloans and provide technical assistance to rural microbusinesses and microenterprises in Randolph, Barbour and Tucker counties of West Virginia.
	WOODLANDS COMMUNITY	RMAP	DISCRETION ASSIST MICROENTERPRISE	09/26/19	0	59,559	0	Rural Development investment will be used to provide technical assistance to rural microbusinesses and microenterprises in Randolph, Barbour and Tucker counties of West Virginia.
	WYOMING COUNTY ECONOMIC DEVELOPMENT AUTHORITY	REG	RBGS ENTERPRISE GRANTS	07/23/19	0	50,000	0	RD investment funds will be used for a revolving loan fund to provide small businesses with loans. The service area for the RLF fund includes Boone, Wyoming, McDowell, Mercer, Putnam, and Wayne counties.
	WESTERN PA/FUJITA PROPERTY GUAM, INC. (WPGI)	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/09/19	0	23,040	0	This Rural Development investment will be used to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations. Fujita Guam Property, Inc. is a small rural business located in the state of Guam. The project will generate 56,523 kWh and realize \$15,261 per year in savings.
			RBGS ENTERPRISE GRANTS	07/09/19	0	14,000	0	Funding from this REAP Grant will be used to purchase and install a 60kW PV solar system to equip the grantee warehouse located in the Tanning.
			REAP-MANDATORY RENEW ENERGY SYST GRANTS	05/22/19	0	31,039	0	
			RBGS ENTERPRISE GRANTS	07/22/19	0	50,000	0	
WISCONSIN	WISCONSIN ACJ INTERNATIONAL LLC	BI	GUARANTEED B&I 3% FEE LOAN	08/29/19	1,075,000	0	0	Rural Development Loan funds will be used to capitalize a Rural Microloan Revolving Fund to make microloans to rural microenterprises and microenterprises. Rural Development investment will be used to provide technical assistance to rural microbusinesses and microenterprises to small, rural businesses for over 25 years. Their mission is to create opportunities for people and communities to reduce poverty and increase self-sufficiency through micro-enterprises and microenterprises with start-up business assistance, as well as ongoing assistance.
	WISCONSIN ADVOCAP, INC.	RMAP	DISCRETION ASSIST MICROENTERPRISE	09/25/19	0	26,570	0	This Rural Development investment will be used for the purchase and installation of a 60kW PV solar system to equip the grantee warehouse located in the Tanning.
	WISCONSIN LLC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/23/19	0	14,241	0	The Rural Development investment will be used to purchase and install a 60kW PV solar system to equip the grantee warehouse located in the Tanning.
	WISCONSIN BARBON/ELECTRIC COOPERATIVE EEI		MAND. ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/09/19	0	19,366	0	The Rural Development investment will be used to purchase and install a 60kW PV solar system to equip the grantee warehouse located in the Tanning.
	WISCONSIN BEAR COUNTRY, INC.	BI	GUARANTEED B&I 3% FEE LOAN	11/13/18	10,000,000	0	0	The Rural Development investment will be used to purchase and install a 60kW PV solar system to equip the grantee warehouse located in the Tanning.
	WISCONSIN BERLIN COM DEV AUTH	REG	RBGS ENTERPRISE GRANTS	07/17/19	0	87,240	0	The Rural Development investment will be used to purchase and install a 60kW PV solar system to equip the grantee warehouse located in the Tanning.

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Borrower or Grantee	State	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount
WISCONSIN EASTER SEALS WISCONSIN INC.	WISCONSIN	RBOG	RBOG DEVELOPMENT GRANT	07/09/19	0	34,356	0
GRANT COUNTY ECON DVL P	WISCONSIN	RBOG	RBOG ENTERPRISE GRANTS	07/09/19	0	60,000	0
WISCONSIN LEVERICH FARMS LLC	WISCONSIN	EEL	MANO ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/29/19	0	13,185	0
WISCONSIN KEKOSKEE VILLAGE OF	WISCONSIN	RBOG	RBOG ENTERPRISE GRANTS	07/09/19	0	99,000	0
WISCONSIN KUTZBA DISTRIBUTING CO INC.	WISCONSIN	EEL	MANO ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/21/19	0	1,756	0
WISCONSIN LEVERICH FARMS LLC	WISCONSIN	EEL	MANO ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	05/29/19	0	8,700	0
WISCONSIN LOTTER, LLC	WISCONSIN	BI	GUARANTEED 84.3% FEE LOAN	05/28/19	1,640,000	0	0
WISCONSIN M-LINE FARMS INC	WISCONSIN	REAP	REAP-MANO ENERGY EFF IMPROV GRANTS	07/16/19	0	30,313	0
WISCONSIN M&E FARMS LLC	WISCONSIN	REAP	REAP-MANO ENERGY EFF IMPROV GRANTS	07/22/19	0	36,412	0

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State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
WISCONSIN	NUJI CAPITAL PARTNERS, INC.	REG	RECS ENTERPRISE NATIVE AMERICAN GRANT	07/20/19	0	77,272		This Rural Development investment will be used to provide technical assistance to Native American business owners of three Wisconsin Tribes: the Lac du Flambeau Band of Lake Superior Chippewa Indians, the Menominee Indian Tribe, and the Sisseton Chippewa Community. The project will assist 0 businesses and create or save 30 jobs.
WISCONSIN	COONTO COUNTY ECONOMIC DEVELOPMENT CORP.	REG	RECS ENTERPRISE GRANTS	07/19/19	0	38,000		This Rural Development investment of \$38,000 will provide technical assistance to small and emerging businesses in Oconto County. The project will initially assist 4 small businesses, 0 in making energy-efficiency improvements to their operations.
WISCONSIN	OCTOPI BREWING LLC	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/16/19	0	94,220		This Rural Development investment will be used for the purchase and installation of a 34 kW solar array for a 600 barrel in central Wisconsin. This project will replace 39,660 kWh (81%) per year and realize \$5,156 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy efficiency improvements to their operations.
WISCONSIN	OLD STONE PET LODGE, INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/10/19	0	15,679		This Rural Development investment will be used for the purchase and installation of a 209 kW solar array. Octopi Brewery, LLC will realize \$20,160 per year in savings, and will replace 283,288kWh (43%) per year. This project will save enough electricity to power 26 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
WISCONSIN	PLATTEVILLE BUS. INCUBATOR, WISCONSIN, INC.	REG	RECS ENTERPRISE GRANTS	07/10/19	0	50,000		This Rural Development investment will be used to capitalize a revolving loan fund which will be used to assist small businesses located in the Platteville Business Incubator. Six 0 businesses will be assisted with this project, supporting 15 jobs.
WISCONSIN	POLK-BURNETT ELECTRIC COOPERATIVE	EI	MAND.ENERGY EFFIC.IMPROV GRANTS UNDER \$20,000	05/27/19	0	19,888		This Rural Development investment will be used to make energy efficiency improvements with the purchase and installation of LED lights to replace existing dusk-to-dawn lights. Polk-Burnett Electric Cooperative provides electrical services in rural Wisconsin. This project will replace 19,888 kWh (80%) per year and realize \$2,500 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
WISCONSIN	PRAIRIE ROCK FARMS INC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	06/30/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a 60 kW solar array. Prairie Rock Farms, Inc., a dairy farm, will realize \$8,186 per year in savings, and will replace 71,678 kWh (80 %) per year. This project will save enough electricity to power 6 homes. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
WISCONSIN	RED CLIFF BAND/LAKESUPERIOR WISCONSIN, CHIPPEWA	REG	RECS OPPORTUNITY NATIVE AMERICAN GRANTS	07/20/19	0	28,292		This Rural Development investment will be used to prepare a business plan for a fish processing plant on the Red Cliff Indian reservation. The project would provide a much needed business plan for the Red Cliff Band of Lake Superior Chippewa. This project also will 0 assist in meeting the Sisseton infrastructure initiative.
WISCONSIN	RUSH CREEK GROWERS, INC.	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	05/20/19	0	20,000		This Rural Development investment will be used for the purchase and installation of a 381 kW solar array for a 100 acre farm in central Wisconsin. This project will replace 46,800 kWh (81%) per year and realize \$5,520 of savings per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.
WISCONSIN	SCHANKEL, TODD C	REAP	REAP-MAND ENERGY EFF. IMPROV GRANTS	07/19/19	0	70,000		This Rural Development loan guarantee investment will be used to make energy efficiency improvements with the purchase and installation of a grain dryer. Todd Schankel is a sole proprietor who operates a grain farm in southwestern WI. This project will realize \$37,278 per year in savings, and will replace 45,000 kWh (80%) per year. The purpose of this funding program is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy-efficiency improvements to their operations.

RBGS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
WISCONSIN	SHEBOYGAN FALLS CITY OF	REDLG	RURAL ECONOMIC DEVELOPMENT LOANS (ELECTRIC)	07/19/19	0	0	1,000,000	This Rural Development investment will finance the renovation of the dining room, kitchen pantry, and activity room at an assisted living facility in Sheboygan Falls, Wisconsin. The renovation will also create 29 additional memory care units. The project will save 380 jobs and create an additional five jobs. Leverage funds of \$988,825 will be provided by the owner.
		REDLG	RURAL ECONOMIC DEVELOPMENT GRANTS (ELECTRIC)	07/10/19	0	300,000	0	This Rural Development investment will finance the renovation of the dining room, kitchen pantry, and activity room at an assisted living facility in Sheboygan Falls, Wisconsin. The renovation will also create 29 additional memory care units. The project will save 380 jobs and create an additional five jobs. Leverage funds of \$988,825 will be provided by the owner.
		BI	GUARANTEED BAI 3% FEE LOAN	03/04/19	4,740,000	0	0	Company was established in 1991 as a manufacturer of private label ethnic cheeses with a focus on Indian, Middle Eastern and fresh Hispanic cheeses. Guaranteed loan proceeds will be used to purchase new equipment and expand production capacity.
	WISCONSIN STORAGE RINK LLC, THE	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/11/19	0	186,000	0	This Rural Development investment will be used for the purchase and installation of a 413 kW solar array. The Storage Rink LLC will realize \$33,249 per year in savings, and will replace 484,374 kWh (59%) per year. This project will save enough electricity to power 42 homes. The project will also create 10 jobs and save 10 jobs. Guaranteed loan proceeds will be used to purchase new equipment and expand production capacity.
		BI	GUARANTEED BAI 3% FEE LOAN	09/27/19	5,000,000	0	0	Company was established in 1920 and is a manufacturer of electric cooking appliances, including electric ranges, electric ovens, and electric cooktops. Guaranteed loan proceeds will be used to purchase new equipment and expand production capacity.
	UW MADISON BOARD OF REGENTS	RCDO	RURAL COOPERATIVE DEVELOPMENT GRANTS	09/16/19	0	189,799	0	This Rural Development investment will provide technical assistance to coops in rural areas of Wisconsin. The project will provide technical assistance to coops in the following areas: providing training and resources to develop new coops; foster an environment to development ventures in food processing, value-added products, and other food-related businesses; provide technical assistance on coop governance, finance and management; Funding will serve 170 groups, 0 new coops, and 0 coops. The project will also create 10 jobs and save 10 jobs. Guaranteed loan proceeds will be used to purchase new equipment and expand production capacity.
		REEG	RBGS ENTERPRISE GRANTS	07/22/19	0	93,363	0	This Rural Development investment of \$93,563 will provide technical assistance to small and emerging businesses in Forest County, as well as in the City of Whitewater. The project will assist at least 5 businesses and create/save 7 jobs.
		REEG	RBGS ENTERPRISE GRANTS	07/09/19	0	42,000	0	This Rural Development investment will be used to provide technical assistance to small businesses located in the Food Enterprise Center, a shared value-added processing facility in Virgatus, WI. Five businesses will be assisted with this project, supporting 25 jobs.
	VIRKING PACKAGING TECHNOLOGIES, INC.	REAP	REAP-MANDATORY RENEW ENERGY SYST GRANTS	07/22/19	0	104,571	0	This Rural Development investment of \$104,571 will provide technical assistance to small and emerging businesses in Vernon County, as well as in the City of Whitewater. The project will assist at least 5 businesses and create/save 7 jobs.
		REEG	RBGS ENTERPRISE GRANTS	07/22/19	0	55,000	0	This Rural Development investment will be used to provide technical assistance to small and emerging businesses in Vernon County, as well as in the City of Whitewater. The project will assist at least 5 businesses and create/save 7 jobs.
	WI COMMUNITY ACTION PROGRAM ASSN, INC.	REEG	RBGS ENTERPRISE GRANTS	07/25/19	0	87,041	0	This Rural Development investment will provide technical assistance to small and emerging businesses in Vernon County, as well as in the City of Whitewater. The project will assist at least 5 businesses and create/save 7 jobs.
		REEG	RBGS ENTERPRISE GRANTS	07/25/19	0	87,041	0	This Rural Development investment will provide technical assistance to small and emerging businesses in Vernon County, as well as in the City of Whitewater. The project will assist at least 5 businesses and create/save 7 jobs.
	WI WOMEN'S BUSINESS INITIATIVE CORP	RMAP	DISCRETION ASSIST MICROENTERPRENEURS	08/24/19	0	82,875	0	This Rural Development investment will provide technical assistance to small and emerging businesses in Vernon County, as well as in the City of Whitewater. The project will assist at least 5 businesses and create/save 7 jobs.
		RMAP	DISCRETION ASSIST MICROENTERPRENEURS	08/24/19	0	82,875	0	This Rural Development investment will provide technical assistance to small and emerging businesses in Vernon County, as well as in the City of Whitewater. The project will assist at least 5 businesses and create/save 7 jobs.

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
WYOMING	QUIVE-GLENN GOLF COUNTRY CLUB INC	EEI	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	02/26/19	0	2,569	0	This Rural Development investment will be used for energy efficiency improvements at the Cheyenne Country Club. The improvements include interior lighting adjustments and parking lot lights. This will be a very helpful addition to the picturesque golf course, in operation since 1970, surrounded by beautiful mountains and wildlife. The project will lower their carbon footprint and bring new safety benefits to their members and guests. The project will be completed by the end of 2019. The purpose of this USDA funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
WYOMING	PC ENTERPRISES LLC	BI	BUSINESS & INDUSTRY GUARANTEED LOAN- 1%	02/20/19	1,000,000	0	0	This Rural Development loan guarantee investment will be used to provide additional financing for the purchase and construction of a new commercial feedmill (replacement), for PC Enterprises LLC, dba Miller Cattle Feedyards near Torrington in Teton County, Wyoming. They expect to create two jobs and save nine. The bank partner in this financing opportunity is Plains Valley Bank, Torrington Wyoming. The business and industry loan guarantee will be used to provide financing for the purchase of a new building, and additional RIE improvements. This loan will allow the owners to make additional improvements to their existing feedmill which in turn will increase employment in the Torrington area, and further improve their ability to provide high quality feed to local farmers & ranchers.
WYOMING	PC ENTERPRISES LLC	BI	BUSINESS & INDUSTRY GUARANTEED LOAN- 1%	09/26/19	800,000	0	0	This Rural Development investment will be used for costs involved with reducing heating, insulation and weather proofing at Pet Place Plus in Jackson, Teton County, Wyoming, a pet supply store. This energy efficiency project has an estimated savings of \$300 per year, 1.5 percent of the total investment. The project will be completed by the end of 2019. The purpose of this USDA funding is to assist farmers, ranchers, and rural small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
WYOMING	PET PLACE PLUS LLC	EEI	MAND.ENERGY EFFIC IMPROV GRANTS UNDER \$20,000	02/26/19	0	2,511.25	0	This Rural Development loan guarantee investment will be used towards costs of opening the new Western Welding Academy in Gillette, Campbell County, Wyo. The owner/borrower, Pete Arc Solutions LLC, is a technical welding school that will offer American Welding Society certification in five unique courses for different types of welding and pipe-fitting. Students at this school will be trained to work on a variety of projects, including the construction of more than competitive schools. Upon completion of a course, students can pass welding tests that are given by employers to check welders competency, and their ability to weld pipe that will be used in the construction of power plants, gas pipelines, and food processing plants, to name a few. The borrower has invested much research and experience into making this academy a reality. Beyond the monetary aspect of the school, the owner is passionate about teaching the next generation of welders, and is committed to making a positive impact on the state-wide economy by developing and retaining certified welders for potential employers.

RBCS FY2019 Obligations

State	Borrower or Grantee	Program	Program Description	Date Obligated	Guaranteed Loan Amount	Grant Amount	Direct Loan Amount	Project Description
WYOMING	PLATTE VALLEY FOODS LLC	EEI	MAND. ENERGY EFFICI. IMPROV. GRANTS UNDER \$20,000	02/26/19	0	17,901.54	0	This Rural Development investment will be used towards the costs of replacing refrigeration systems in the meat processing facility of Platte Valley Foods LLC, a family-owned business, located in the town of Cheyenne, Wyoming. The facility is a local, family-owned business - the only grocery in a 40 mile radius, nestled between the Rocky Mountain and Sierra Madre mountain ranges, the Medicine Bow Rural National Forest and the Red Desert. Valley Foods will be much more successful offering a full array of foods and groceries to the local community, and will be able to produce and sell more food products, electricity annually, or about \$3,800 per year. This is approximately enough energy for 5 mid-sized homes. Rural Development reimburses 25 percent of eligible grant costs. The purpose of this investment is to help Platte Valley Foods LLC become more energy efficient and to develop renewable energy systems, and in making energy efficiency improvements to their operations.
								This Rural Development investment will be used for a renewable energy project at River Heat Food LLC, a family-owned business in Cheyenne, Wyoming. The project is a beautiful, historic building located along the Wind River National Park town, which is a historic town with close access to Yellowstone National Park, the Grand Teton and the Whiskey Basin. Eighteen costs include the purchase and installation of a 24.48 kW solar, grid-tied, roof-mounted solar system, and the purchase and installation of a 24.48 kW solar, grid-tied, roof-mounted solar system. The project is expected to generate 3,390 kWh of electricity per year, valued at \$1,130.00 annually. The project will be a significant benefit to the local community, and is valued at about \$3,750 annually, a huge benefit to this small, family-owned business. Rural Development meets 25 percent of the costs for eligible grant projects through the Renewable Energy Incentive Program. The project will help River Heat Food LLC become more energy efficient, and small businesses in developing renewable energy systems and energy efficiency improvements to their operations.
								This Rural Development investment will be used for a renewable energy project at RSM Inc. in Cheyenne, Wyoming. The project is a beautiful, historic building located along the Wind River National Park town, which is a historic town with close access to Yellowstone National Park, the Grand Teton and the Whiskey Basin. Eighteen costs are associated with the purchase and installation of a 9.6 kW solar, grid-tied, roof-mounted solar system. The project is expected to generate 1,390 kWh of electricity per year, valued at \$1,130.00 annually. The project will be a significant benefit to the local community, and is valued at about \$3,750 annually, a huge benefit to this small, family-owned business. Rural Development meets 25 percent of the costs for eligible grant projects through the Renewable Energy Incentive Program. The project will help RSM Inc. become more energy efficient, and small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
								This Rural Development investment will be used for a renewable energy project at RSM Inc. in Cheyenne, Wyoming. The project is a beautiful, historic building located along the Wind River National Park town, which is a historic town with close access to Yellowstone National Park, the Grand Teton and the Whiskey Basin. Eighteen costs are associated with the purchase and installation of a 9.6 kW solar, grid-tied, roof-mounted solar system. The project is expected to generate 1,390 kWh of electricity per year, valued at \$1,130.00 annually. The project will be a significant benefit to the local community, and is valued at about \$3,750 annually, a huge benefit to this small, family-owned business. Rural Development meets 25 percent of the costs for eligible grant projects through the Renewable Energy Incentive Program. The project will help RSM Inc. become more energy efficient, and small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
WYOMING	RSM INC	RES	MAND. RENEW ENERGY SYSTEMS GRANTS UNDER \$20,000	04/09/19	0	20,000		This Rural Development investment will be used for a renewable energy project at RSM Inc. in Cheyenne, Wyoming. The project is a beautiful, historic building located along the Wind River National Park town, which is a historic town with close access to Yellowstone National Park, the Grand Teton and the Whiskey Basin. Eighteen costs are associated with the purchase and installation of a 9.6 kW solar, grid-tied, roof-mounted solar system. The project is expected to generate 1,390 kWh of electricity per year, valued at \$1,130.00 annually. The project will be a significant benefit to the local community, and is valued at about \$3,750 annually, a huge benefit to this small, family-owned business. Rural Development meets 25 percent of the costs for eligible grant projects through the Renewable Energy Incentive Program. The project will help RSM Inc. become more energy efficient, and small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
WYOMING	STEVEN TITUS & ASSOCIATES PC	BI	BUSINESS & INDUSTRY GUARANTEED LOAN - 1%	03/19/19	448,000	0		This Rural Development loan guarantee investment will allow the law firm of Steven Titus and Associates, PC in Gillette, Campbell County, Wyoming to purchase the building where they are located. They have been in business since 2016, and with this loan through First Northern Bank of Wyoming, a small business will be able to purchase the real estate, located at 1000 N. 10th St. in Gillette, WY 82701. The loan will be for the purchase of the building, and will be used for guaranteeing loans for rural small businesses.
WYOMING	TETON SNUBBING SERVICES LLC	BI	BUSINESS & INDUSTRY GUARANTEED LOAN - 1%	12/11/18	135,000	0		Rural Development guaranteed loan funds for Teton Snubbing Services LLC, an off-road snowsport rental business, located in Jackson, Wyoming. Teton Snubbing Services LLC is a family-owned business, located in Jackson, Wyoming, offering off-road snowsport rental services, including snowmobiling, energy-producing states. They also provide oil well maintenance, including muddy string installation, cutting and damage repairs. This guaranteed transaction provides permanent employment for the business, and will be a significant benefit to the local community, and is valued at about \$3,750 annually, a huge benefit to this small, family-owned business. Rural Development meets 25 percent of the costs for eligible grant projects through the Renewable Energy Incentive Program. The project will help Teton Snubbing Services LLC become more energy efficient, and small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.
WYOMING	UNTUNED STONE LLC	BI	GUARANTEED 88.3% FEE LOAN	07/23/19	1,515,000	0		This Rural Development loan guarantee investment will be used to assist a live theater in Cheyenne, Wyoming. The project is a beautiful, historic building located along the Wind River National Park town, which is a historic town with close access to Yellowstone National Park, the Grand Teton and the Whiskey Basin. Eighteen costs are associated with the purchase and installation of a 9.6 kW solar, grid-tied, roof-mounted solar system. The project is expected to generate 1,390 kWh of electricity per year, valued at \$1,130.00 annually. The project will be a significant benefit to the local community, and is valued at about \$3,750 annually, a huge benefit to this small, family-owned business. Rural Development meets 25 percent of the costs for eligible grant projects through the Renewable Energy Incentive Program. The project will help Untuned Stone LLC become more energy efficient, and small businesses in developing renewable energy systems, and in making energy efficiency improvements to their operations.

Single Family Housing Obligations

RHS Single Family Housing Programs	#Loans or Grants	\$ Obligated
502 Direct Loans	6,185	\$999,916,221
502 Guaranteed Loans	99,322	\$14,865,886,386
504 Loans	2,735	\$17,364,032
504 Grants	3,386	\$20,854,625
Self Help Grants	41	\$29,001,946
Site Development Loan	1	\$1,897,646

[illegible]

Rural Utilities Service Electric Program FY 2019 Loans					
Program	State	Recipient	Award Date	Project Amount	Project Description
Electric	AR	Rich Mountain Electric Cooperative	12/21/2018	\$20,000,000	This Rural Development investment will be used to build or improve 89 miles of line to enhance system operations that will directly benefit 440 rural consumers. Operational since 1946, Rich Mountain Electric Cooperative serves more than 8,800 customers on more than 1,734 miles of line across four counties in Arkansas and Oklahoma. More than 50 percent of its service territory is forest land.
Electric	AR	Craighead Electric Cooperative Corporation	05/17/2019	\$24,368,000	This Rural Development investment will be used to fund distribution projects, including 35 miles of new and improved line. Craighead serves more than 31,000 consumers over 4,800 miles of line in Craighead, Crittenden, Greene, Independence, Lawrence, Poinsett, Randolph and Sharp counties.
Electric	AR	South Central Arkansas Electric Cooperative	08/13/2019	\$32,900,000	This Rural Development investment will be used to connect 700 customers, and build and improve 181 miles of line. This loan will also fund nearly \$27 million in smart grid technologies. Headquartered in Arkadelphia in South Central Arkansas, and energized in 1942, South Central Arkansas Electric Cooperative Inc. serves nearly 11,000 customers through 1,905 miles of energized line in

					Nevada, Montgomery, Howard, Hempstead, Dallas, Hot Spring and Clark counties.
Electric	AR and MO	Carroll Electric Cooperative Corp.	03/11/2019	\$263,117,000	This Rural Development investment will be used to improve electric grid reliability and security for 998 miles of transmission and distribution line. Carroll Electric will use \$8.5 million of the loan to invest in smart grid technologies to improve system communications for 13,260 new customers. Carroll serves 97,275 consumers across 10,613 energized lines in 11 counties in Arkansas and Missouri.
Electric	AZ and UT	Navajo Tribal Utility Authority Generation	03/13/2019	\$94,174,000	This Rural Development investment will be used to construct a 55.1 megawatt solar facility that will provide renewable energy to the Navajo Tribal Utility Authority, which will serve approximately 26,000 rural customers on the Navajo Nation in Arizona, New Mexico, and Utah. The Navajo Tribal Utility Authority provides electric, communications, natural gas, water, wastewater, and energy generation services on the 27,000 square-mile Navajo Nation.
Electric	CO	CoBank	09/23/2019	250,000,000.	Rural Development 313A funds will make investments in utility infrastructure loans or refinance bonds or notes issued for utility infrastructure funding purposes. CoBank is

					one of four banks of the Farm Credit System (“FCS”) that was created by the U.S. Congress to fill a need for long-term agricultural credit. CoBank is cooperatively owned by its U.S. customer-owners, including agricultural cooperatives, rural energy, companies, and financial institutions that serve rural America.
Electric	CO	Mountain Parks Electric	09/26/2019	10,000,000.	This Rural Energy Savings investment will provide financing t for residential and commercial energy-efficiency upgrades, solar photovoltaic and battery storage installations and qualifying electric vehicle-related purchases.
Electric	CO and NE	Y-W Electric Association	09/20/2019	\$45,628,000	This Rural Development investment will be used to connect 365 customers, and build and improve 164 miles of line, including 18 miles of transmission line. This loan includes more than \$4 million for smart grid technologies. Y-W Electric is a member-owned electric distribution borrower headquartered in Akron, Colo. It serves 8,889 members in three counties in Colorado and one county in Nebraska.

Electric	CO, NE, WY	High West Energy Inc.	08/08/2019	\$39,805,000	This Rural Development investment will be used to connect 748 customers, and build and improve 343 miles of line. The loan includes \$3.3 million for smart grid technologies. High West serves more than 10,000 customers over 3,714 miles in three counties in Colorado, four counties in Nebraska and two counties in Wyoming.
Electric	FL	Central Florida Electric Cooperative	12/18/2018	\$17,000,000	This Rural Development investment will be used to build or improve 248 miles of distribution line and improve system operations benefitting 1,328 rural customers. This funding also includes more than \$1 million for smart grid technologies. Central Florida serves approximately 33,000 customers with 4,273 miles of line in Alachua, Dixie, Gilchrist and Levy counties. More than 2,320 of these are commercial and 500 are irrigation consumers. The co-op, which has been operational since 1940, is expected to add more than 2,100 customers during the next decade.
Electric	FL	Peace River Electric Cooperative	09/03/2019	\$25,200,000	This Rural Development investment will be used to connect 3,988 customers; build and upgrade 103 miles of line; build and improve substations, switching stations and metering points; and replace 30 transmission poles. Peace River is a non-profit distribution cooperative providing electric service to approximately 43,000 residential and small

					commercial customers over 3,704 miles of line in central Florida.
Electric	FL	Suwanee Valley Electric Cooperative	09/17/2019	\$18,000,000	This Rural Development investment will be used to connect 1,116 customers, and build and improve 118 miles of line. Suwanee Valley is headquartered in Live Oak, Fla. It provides electricity to more than 26,000 customers over 4,504 miles of energized line.
Electric	FL	Shaw Creek Solar	09/18/2019	\$2,000,000.	This Rural Development investment will finance the development of an 74.9 megawatt (MW) solar photovoltaic (PV) farm (the "Project") NextEra Energy Resources, LLC ("NextEra"), the parent company of Shaw Creek Solar, LLC.
Electric	GA	Little Ocmulgee Electric Membership Corp.	02/22/2019	\$14,103,000	This Rural Development investment will be used to build 107 miles of line and invest \$357,000 in smart grid technologies. These improvements will benefit 1,152 consumers. Little Ocmulgee provides power to more than 11,000 residential, commercial and irrigation consumers over 2,057 miles of line.
Electric	GA	Coastal Electric Membership Corporation	05/23/2019	\$23,000,000	This Rural Development investment will be used to connect more than 3,900 consumers and build and improve 165 miles of line and invest \$1.6 million for smart grid projects. Coastal Electric

					Membership Corporation serves approximately 19,700 customers in Georgia.
Electric	GA	Upson Electric Membership Corp.	08/07/2019	\$4,455,000	This Rural Development investment will be used to build and improve 54 miles of line. It will connect 300 customers and improve system efficiencies for 9,112 customers in Crawford, Merriweather, Pike, Crawford, Taylor and Upson counties in central Georgia. This project also includes \$118,000 for smart grid technologies.
Electric	GA	Jefferson Energy Cooperative	08/13/2019	\$20,000,000	This Rural Development investment will be used to connect 1,750 consumers, and build and improve 145 miles of line. This loan includes \$591,000 in smart grid technologies. These improvements will enhance system resilience and reliability. Jefferson Energy is headquartered in Wrens, Ga., and provides service to approximately 45,000 customers over 4,082 miles of line in 11 counties in east central Georgia.
Electric	GA	Sawnee Electric Membership Corp.	09/05/2019	\$229,277,000	This Rural Development investment will be used to connect 25,650 customers, and build and improve 1,275 miles of distribution line to enhance system resilience and reliability. Sawnee serves nearly 180,000 customers over 11,362 miles of line in seven counties north of Atlanta.

Electric	GA	Jackson Electric Membership Corp.	09/11/2019	\$190,002,000	This Rural Development investment will be used to build and improve 1,875 miles of distribution line and add 17,216 customers. These improvements will enhance distribution capacity by providing new capacity and additional reliability to serve its members' loads. These improvements include creating new lines and replacing worn poles and lines. Jackson Electric is headquartered in Jefferson, Ga. It provides electric service to almost 236,000 customers over 14,000 miles of line in parts of 10 counties in northeastern Georgia.
Electric	GA	Georgia Transmission Corp	09/25/2019	78,134,000.	Rural Development funds will be used to finance transmission improvement projects, including 14 new miles of new transmission lines, seven new substations, modifications of existing substations, capacity increases and other projects to increase reliability for member systems. Georgia Transmission Corporation, which serves 38 of Georgia's 41 Electric Membership Cooperatives, owns and maintains approximately 3,459 miles of transmission line and 742 substations and is the largest cooperative-owned transmission system in the United States.
Electric	GA	Oglethorpe Power Corp	09/27/2019	630,342,000.	This Rural Development investment will finance transmission system improvements and upgrades to its existing generation and

					transmission facilities. Oglethorpe is a generation and transmission electric cooperative (G&T) owned by 38 retail electric distribution cooperatives.
Electric	GA and NC	Blue Ridge Mountain Electric Membership Corp.	04/29/2019	\$38,969,000	This Rural Development investment will be used to build and improve 277 miles of line to connect 2,370 new customers. Currently, Blue Ridge serves 52,759 customers with 6,194 miles of line in Fannin, Gilmer, Towns and Union counties in Georgia, and Cherokee and Clay counties in North Carolina.
Electric	IA	Southern Iowa Electric Cooperative	06/20/2019	\$4,703,000	This Rural Development investment will be used to fund 11 miles of new line and invest \$175,000 in smart grid technologies, providing reliable and resilient service to 208 customers. Southern Iowa Electric Cooperative, Inc., headquartered in Bloomfield, serves more than 4,725 residential and commercial customers across nearly 1,675 miles of line in Appanoose, Davis, Van Buren and Wapello counties in southeast Iowa.
Electric	IA	Central Iowa Power Coop	08/05/2019	81,386,000.	This Rural Development investment will add 49.32 miles of new transmission lines and replace 24.55 miles of old transmission lines. Central Iowa Power serves a population of 320,000 through 1,927 miles of transmission line in 58 out of 99 counties.

Electric	IA	Midland Power Coop	09/25/2019	26,000,000.	This Rural Development investment will connect over 1,300 consumers and build and improve 257 miles of line. The loan includes over \$22 million for smart grid technologies. Midland Power is headquartered in Jefferson, Iowa and serves 11,766 members over 4,168 miles across 14 counties in the State of Iowa.
Electric	IN	Southern Indiana Rural Electric Cooperative Inc.	12/21/2018	\$10,500,000	This Rural Development investment will be used to build or improve 92 miles of line to enhance system operations for 600 rural consumers. This funding also includes more than \$1.5 million in smart grid technologies. Southern Indiana Power serves 9,300 consumers over 1,643 miles of line across five counties. Its service territory includes both agricultural and industrial consumers, including woodworking, furniture manufacturing, logging, rock quarrying, coal mining, crude oil production and manufacturing of steel products.
Electric	IN	Harrison REMC	06/04/2019	\$15,500,000	This Rural Development investment will be used to connect 1,445 new consumers, build 78 new miles and improve 122 miles of distribution line. The loan includes \$1.1 million in smart grid investments. Headquartered in Coryndon, Ind., Harrison County REMC serves about 23,200 consumers over 2,460 miles in Harrison, Floyd, Crawford,

					Clark and Washington counties.
Electric	IN	Southeastern Indiana Rural Electric Membership Corp.	08/08/2019	\$15,000,000	This Rural Development investment will be used to connect 796 customers and build and improve 107 miles of line. The loan includes \$2.6 million for smart grid technologies. Southeastern serves approximately 27,000 customers over 3,225 miles of line in Dearborn, Franklin, Jefferson, Jennings, Ohio, Ripley and Switzerland counties.
Electric	KS	Sedgwick County Electric Cooperative Association	05/08/2019	\$8,116,000	This Rural Development investment will be used to build and improve 67 miles of line and invest nearly \$420,000 in smart grid technologies to improve system efficiencies and security. Sedgwick County Electric Cooperative Association Inc. serves more than 6,800 consumers over 1,175 miles of line in Harvey, Kingman, Reno, Sedgwick and Sumner counties, bordering the city of Wichita.
Electric	KS	Ninnescah Rural Electric Cooperative Association	05/08/2019	\$6,500,000	This Rural Development investment will be used to build and improve 89 miles of line. The loan includes \$39,600 in smart grid technologies to improve system efficiencies and security. Ninnescah serves more than 4,200 customers over 2,129 miles of line in 10 counties in south central Kansas.

Electric	KS	Ark Valley Electric Cooperative Association	05/20/2019	\$5,740,000	This Rural Development investment will be used to build and improve 29 miles of line to serve 228 consumers. The loan includes nearly \$42,000 for smart grid applications to increase system resilience and reliability. Headquartered in South Hutchinson, Kan., and energized in 1939, Ark Valley is a rural distribution cooperative serving nearly 5,200 consumers through 2,101 miles of line.
Electric	KS	Heartland Rural Electric Cooperative	06/25/2019	\$13,600,000	This Rural Development investment will be used to build and improve 55 miles of line and invest \$3 million in smart grid technologies. These improvements will enhance system resilience and reliability. Heartland serves more than 11,000 residential and commercial consumers over 3,800 miles of energized line in 12 counties in Kansas.
Electric	KS	Western Cooperative Electric Association Inc.	09/10/2019	\$19,000,000	This Rural Development investment will be used to connect 528 customers, and build and improve 135 miles of line to enhance system resilience and reliability.
Electric	KY	Jackson Energy Cooperative	04/08/2019	\$36,000,000	This Rural Development investment will be used to build and improve 159 miles of line to improve system efficiency and resilience. Jackson Energy began operating in 1937 and today serves 51,493 residential and commercial customers through 5,742 miles of line.

Electric	KY	Licking Valley Rural Electric Cooperative	06/06/2019	\$19,691,000	This Rural Development investment will be used to build and upgrade 84 miles of line and install nearly \$338,000 in smart grid technologies to improve system operations and security, to serve 17,300 residential and business consumers over 2,072 miles of line in Breathitt, Elliot, Lee, Magoffin, Menifee, Morgan, Rowan and Wolfe counties.
Electric	KY	Fleming-Mason Energy Cooperative	06/10/2019	\$18,357,000	This Rural Development investment will be used to build and improve 295 miles of line and invest \$622,917 in smart grid technologies to benefit 24,400 consumers across 3,624 miles of line in Bath, Bracken, Fleming, Lewis, Mason, Nicholas, Robertson and Rowan counties.
Electric	KY	Taylor County RECC	06/28/2019	\$10,000,000	This Rural Development investment will be used to build and improve 84 miles of line to serve 1,140 customers. This loan includes \$1.8 million in smart grid technologies to increase system efficiencies and security. Taylor County RECC serves 26,251 customers across 3,285 miles of line in nine Kentucky counties.
Electric	KY	Salt River RECC	07/02/2019	\$30,000,000	This Rural Development investment will be used to build 212 of new line to serve 5,023 customers and improve 112 miles to enhance system resilience and reliability. This loan includes \$12.7 million in smart grid improvements. Salt

					River RECC serves more than 51,000 customers across nearly 4,300 miles of line in 10 counties in central Kentucky.
Electric	KY	Big Rivers Electric Corporation	09/03/2019	\$160,484,000	This Rural Development investment will be used to build and improve 34 miles of transmission line. These improvements will enhance transmission capacity and ensure greater reliability of service to rural communities. Big Rivers, headquartered in Henderson, Ky., serves more than 117,000 residential and commercial customers in 22 counties in Kentucky.
Electric	KY	East Kentucky Power Cooperative Inc.	09/11/2019	\$152,987,000	This Rural Development investment will be used to make transmission system improvements and build 34 miles of transmission line to enhance system reliability. Eastern Kentucky Power generates wholesale electricity and provides bulk transmission services to 16 distribution member cooperatives, which in turn serve the power needs of approximately 595,016 meters and 541,382 member-consumers in the eastern 2/3rds of the state of Kentucky. Its member consumers are located in 89 of Kentucky's 120 counties. These 16 distribution member cooperatives serve more than 1 million Kentuckians.

Electric	LA	Washington-St. Tammany Elec Coop	09/25/2019	74,542,000.	This Rural Development investment will fund 176 new line miles, improve 70 miles offline, and add 3,862 new consumers. These improvements include upgrades to 11 miles of transmission line to improve capacity and reliability to serve member loads. Washington-St. Tammany serves 52,538 consumers in Louisiana and Mississippi with over 5,376 miles of distribution line and 167 miles of transmission line.
Electric	ME	Aligned Solar Partners 1, LLC	07/29/2019	\$1,750,000	This Rural Development investment will be used to finance two, 1 megawatt solar projects. One project is in Aroostook County. The other is in Kennebec County. The electricity generated will power two rural municipal water and sewer districts. This loan is an example of the ways in which USDA coordinates assistance through multiple programs -- in this case the Electric and Water Programs -- to enhance the quality of life in rural communities.
Electric	MI	Cloverland Electric Cooperative	03/19/2019	\$42,900,000	This Rural Development investment will be used to improve the generation system and upgrade security measures. The loan will also be used to build and improve 80 miles of line and invest nearly \$832,000 in smart grid technologies. Cloverland Electric serves nearly 43,000 residential and commercial consumers in Chippewa, Delta, Luce, Mackinac and

					Schoolcraft counties in Michigan.
Electric	MI	Thumb Electric Coop Of Michigan	05/28/2019	1,000,000.	This Rural Energy Savings investment will carry out an on-bill financing program that enables consumers to affordably implement cost saving energy efficiency improvements.
Electric	MI	Great Lakes Energy Cooperative	09/27/2019	\$188,000,000	This Rural Development investment will be used to build and improve 388 miles of distribution line and connect 4,166 customers. These new miles of line include the installation of 1,850 miles of fiber and 6,200 connections. The loan includes funds to install fiber-based smart grid communications to increase system efficiencies. Great Lakes provides electric service to approximately 125,447 customers over more than 14,451 miles of line in 26 counties in the western portion of Michigan's Lower Peninsula.
Electric	MI, OH and IN	Midwest Energy Cooperative	09/16/2019	\$63,750,000	This Rural Development investment will be used to build and improve 1,193 miles of distribution line, and connect 1,160 customers. The new miles of line include 988 miles of fiber backbone for smart grid communications improvements across the electric operating system, including upgrades to metering and grid management systems. Midwest Energy Cooperative

					serves approximately 36,000 customers over 4,240 miles of line in seven counties in southeast and southwest Michigan, three counties in northern Indiana and two counties in northern Ohio.
Electric	MN	BENCO Electric Cooperative	03/05/2019	\$25,000,000	This Rural Development investment will be used to build or improve 158 miles of line and invest \$2.7 million in smart grid technologies to increase electric system efficiencies and grid security. BENCO provides electricity to more than 18,500 residential and commercial consumers over nearly 3,600 miles of line in 10 counties in south central Minnesota. Much of its service territory is farmland. Continued improvements in basic services such as schools, hospitals, roads and telecommunications is transforming the area into a regional center for medical care and retail shopping.
Electric	MN	Lake Country Power	03/22/2019	\$52,000,000	This Rural Development investment will be used to finance 1,400 new consumer connections, build and improve 249 miles of line and invest \$17 million in smart grid technologies to increase system security and resilience. Lake Country provides service to approximately 49,000 customers across 8,319 miles of line in eight

					counties in northeastern Minnesota.
Electric	MN	People's Energy Cooperative	04/26/2019	\$36,000,000	This Rural Development investment will be used to build and improve 506 miles of line and invest nearly \$800,000 in smart grid technologies to improve system efficiencies and resilience. People's Energy serves 22,400 residential and commercial consumers over 2,980 miles of line in six counties in southeast Minnesota.
Electric	MN	Stearns Cooperative Electric Assn.	04/29/2019	\$40,956,000	This Rural Development investment will be used to build and improve 280 miles of line and invest \$3.3 million in smart grid technologies to improve system efficiencies and increase resilience. Headquartered in Melrose, Minn., Stearns Cooperative is a rural distribution cooperative serving 26,000 consumers across 4,127 miles of line throughout Morrison, Pope, Kandiyohi, Todd, Stearns and Douglas counties in Minnesota.
Electric	MN	Meeker Cooperative Light & Power	08/01/2019	\$22,000,000	This Rural Development investment will be used to connect 296 customers and improve 243 miles of distribution line. The loan includes nearly \$7.1 million in smart grid technologies. Headquartered in central Minnesota., Meeker serves 8,917 customers over 1,936 energized miles of line in Meeker, Wright, Stearns,

					McLeod, Kandiyohi and Renville counties.
Electric	MN	North Star Electric Cooperative	08/13/2019	\$11,057,000	This Rural Development investment will be used to build and improve 95 miles of line and add 357 customers. The loan includes more than \$2 million for smart grid technologies. North Star serves an average of 6,500 customers through 1,444 miles of energized line in Koochiching, Lake of the Woods, Roseau and St. Louis counties.
Electric	MN	Redwood Electric Cooperative	09/12/2019	\$7,000,000	This Rural Development investment will be used to build and improve 57 miles of distribution line and add 72 customers. The loan includes \$1,831,000 for smart grid technologies. Redwood Electric Cooperative, headquartered in Clements, Minn., serves more than 4,400 residential and commercial consumers in three counties in Minnesota.
Electric	MN	Agralite Coop	09/30/2019	5,726,864.	Electric Refinancing Program
Electric	MN and SD	H-D Electric Cooperative	06/10/2019	\$8,072,000	This Rural Development investment will be used to connect 146 customers and consumers and build and improve 140 miles of distribution line. The loan includes more than \$474,000 in smart grid applications to enhance system resilience and reliability. H-D Electric, headquartered in Clear Lake,

					S.D., provides electric service to approximately 3,600 consumers over 1,572 miles of line in South Dakota and Minnesota.
Electric	MN, ND and SD	Traverse Electric Cooperative	04/18/2019	\$5,006,000	This Rural Development investment will be used to build and improve 51 miles of line and invest \$625,000 in smart grid technologies to increase system efficiencies and resilience. Traverse Electric serves nearly 3,000 consumers over 1,695 miles of line in Big Stone, Grant, Stevens, Traverse and Wilkins counties in Minnesota. It also serves consumers in Marshall and Roberts counties in South Dakota and in Richland County in North Dakota.
Electric	MO	Central Electric Power Cooperative	02/14/2019	\$72,153,000	This Rural Development investment will be used to finance electric distribution and transmission facilities. The upgrades will supply peak loads, conform to safety requirements and improve the reliability and resiliency of the transmission system. Central Electric also plans to construct backup control center facilities to ensure the continuity of operations in the event of catastrophe. It is a member-owned transmission electric cooperative that supplies power to eight electric distribution cooperatives. It serves approximately 187,000 residential and business

					consumers across 22,000 square miles in 28 counties in central Missouri.
Electric	MO	Howard Electric Cooperative	03/13/2019	\$7,769,000	This Rural Development investment will be used to build and improve 47 miles of line and make system improvements for approximately 200 consumers. The loan includes \$234,000 for smart grid technologies. Howard serves 3,520 residential and business consumers across 918 miles of line.
Electric	MO	Farmer's Electric Cooperative	08/13/2019	\$14,000,000	This Rural Development investment will be used to connect 726 customers, and build and improve 114 miles of distribution line. This loan includes \$240,000 in smart grid technologies. Farmers' serves more than 13,000 members over 3,699 miles of line in Linn, Clinton, Carroll, Caldwell, Daviess, DeKalb, Chariton, Livingston and Ray counties.
Electric	MO	Intercounty Electric Coop Assn	09/25/2019	10,000,000.	This Rural Development investment will fund 36 miles of line to serve 696 consumers. Intercounty, headquartered in Licking, Missouri, is a rural electric distribution system serving approximately 30,400 consumers over 5,600 miles of line in 9 counties.

Electric	MO	Associated Electric Coop	09/25/2019	140,000,000.	This Rural Development investment will fund replacement of components for a generating facility. Associated is a generation and transmission (G&T) cooperative that provides wholesale power to its six G&T members that provide wholesale power to 51 distribution cooperatives. The combined 51 cooperatives serve more than 910,000 customers in the Missouri, southeast Iowa, and northeast Oklahoma.
Electric	MS	Cooperative Energy	03/08/2019	\$148,885,000	This Rural Development investment will be used to make environmental upgrades, replace gas turbines, build transmission lines and substations, and make other improvements. Cooperative Energy provides wholesale power to its 11 generation and transmission members in southern and western Mississippi. Its systems include more than 1,800 miles of transmission lines that connect with more than 56,000 miles of distribution line serving more than 498,000 meters. This partnership provides electricity that serves approximately 1 million Mississippians in 55 counties.
Electric	MS	Magnolia Electric Power Association	03/19/2019	\$40,000,000	This Rural Development investment will be used to make system improvements, including 303 miles of line and \$4 million in smart grid technologies to increase system reliability. Magnolia Electric is a not-for-profit,

					consumer-owned electric distribution cooperative located in Summit, Miss. It serves nearly 32,000 residential and business consumers across eight counties and 4,780 miles of line.
Electric	MS	Natchez Trace Electric Power Assn.	04/19/2019	\$8,560,000	This Rural Development investment will be used to upgrade distribution and headquarters facilities to improve system efficiencies and resilience and meet customer needs. Natchez Trace is headquartered in Houston, Miss. It serves more than 15,800 customers over 2,100 miles of line in Calhoun, Chickasaw, Clay, Grenada, Pontotoc, Webster and Yalobusha counties in north central Mississippi.
Electric	MS	Southern Pine Electric	09/23/2019	85,292,000.	This Rural Development investment will build 271 miles of new line, improve 493 miles and connect 6,834 new consumers. The loan includes over \$19 million in smart grid technologies, of which \$14,425,000 will be used to construct 577 miles of fiber cable. Southern Pine Electric Cooperative is headquartered in Taylorsville, Mississippi and serves 67,547 consumers over 10,448 miles of line.
Electric	MT	Missoula Electric Coop	03/13/2019	200,000.	This Rural Energy Savings investment will provide service to consumers in Montana and Idaho. Rural Development funds will finance an energy on-bill financing program. The On-Bill Financing Program will

					relend loan funds to qualified residential and commercial consumers to implement cost-saving energy efficiency improvements such as heating and cooling systems, weatherization, energy efficient lighting, water heaters and duct sealing.
Electric	NC	Albemarle Electric Membership Corp.	02/08/2019	\$15,000,000	This Rural Development investment will be used to build or improve 41 miles of line serving nearly 13,000 residential and industrial consumers. These funds will also be used for smart grid technologies to help Albemarle better manage the electric grid, improve operational efficiencies and manage loads, such as during peak demand. Albemarle serves five counties in northeast North Carolina.
Electric	NC	North Carolina Electric Membership Corporation	07/16/2019	\$16,698,000	This Rural Development investment will fund N.C. EMC's share of the cost for generation system improvement projects at the Catawba Nuclear Station. N.C. EMC is a generation and transmission electric cooperative with headquarters located in Raleigh, N.C., providing power to 25 distribution cooperatives across 93 counties in the state. These funds will invest in system upgrades and plant security.
Electric	NC	Pee Dee Electric Membership Corp.	07/23/2019	\$20,000,000	This Rural Development investment will be used to build or improve 210 miles of line to serve 2,245 customers. The loan includes almost \$2

					million for smart grid technologies to improve system efficiency and grid security. Pee Dee EMC serves 21,000 customers across seven counties.
Electric	NC	Tideland EMC	09/18/2019	31,689,000.	This Rural Development investment will fund 59 new miles of line, improve 117 miles and connect 2,531 new consumers.
Electric	NC	Surry-Yadkin EMC	09/25/2019	27,000,000.	This Rural Development investment will finance distribution and transmission system improvement projects for Surry-Yadkin EMC, a distribution cooperative serving 27,063 consumers across northwestern North Carolina.
Electric	NC, SC and GA	Haywood EMC	09/17/2019	\$24,000,000	This Rural Development investment will be used to connect 1,800 customers, build and upgrade 58 miles of distribution line, and build 4 miles of transmission line. This loan includes \$750,000 to finance smart grid technologies that will enhance communications to all metering points, as well as other grid assets. This will provide real-time data to improve the reliability of the distribution system. Haywood is a non-profit distribution cooperative providing electric service to approximately 27,200 members in eight counties in Western North Carolina, and to portions of two counties in northeastern Georgia and South Carolina.

Electric	ND	Central Power Electric Cooperative	03/07/2019	\$68,342,000	This Rural Development investment will be used to build eight transmission lines, two substations, and make other system improvements. Central Power serves six distribution cooperatives that deliver power to more than 61,700 residential and business customers primarily in central and southeastern North Dakota.
Electric	ND	Verendrye Electric Cooperative	08/07/2019	\$29,973,000	This Rural Development investment will be used to build and improve 244 miles of line. This project will connect nearly 1,400 new customers and improve system efficiencies for 16,269 existing consumers. The loan includes \$1.8 million for smart grid technologies. Verendrye serves 4,600 energized miles in McHenry, Renville, Ward, Pierce, Wells, Sheridan and McLean counties in north central North Dakota.
Electric	NE	Midwest Electric Member Corp	09/27/2019	9,100,000.	This Rural Development investment will fund finance distribution and transmission improvements, including include 19 miles of new line and 165 miles of improvement line. Midwest is also investing funds in the amount of \$875,200 in smart grid applications to improve system resilience. Midwest Electric serves 6,522 consumers in southwest Nebraska.
Electric	NM	Syncarpha Eagle Nest 1	02/14/2019	\$1,200,000	This Rural Development investment will be used to finance a 1.3 megawatt solar farm. The proposed facility

					will be located in the village of Eagle Nest in Colfax County.
Electric	NM	Mora-San Miguel Electric Cooperative Inc.	09/18/2019	\$7,338,000	This Rural Development investment will be used to build and improve 102 miles of distribution line. The loan includes \$83,380 for smart grid technologies. This project will provide electricity to 364 new customers. Mora-San Miguel provides electric service to 9,386 customers over 1,961 miles of line in four counties in north central New Mexico.
Electric	OH	Buckeye Rural Electric Cooperative	06/25/2019	\$19,695,000	This Rural Development investment will be used to build and improve 96 miles of line, serving 600 new customers, and invest \$327,000 in smart grid technologies to increase system efficiency and resilience. Buckeye serves more than 18,600 customers over 2,500 miles of line across nine counties in eastern Ohio.
Electric	OH	Mid-Ohio Energy Cooperative	09/03/2019	\$8,000,000	This Rural Development investment will be used to connect 220 customers, upgrade 52 miles of line and make improvements to substations and metering points. Mid-Ohio is a non-profit distribution cooperative providing electric service to approximately 8,100 customers over 1,333 miles of line in 10 counties in north central Ohio.

Electric	OH	Consolidated Electric Cooperative, Inc.	09/11/2019	\$14,938,000	This Rural Development investment will be used to connect 659 customers, build and improve 69 miles of line and implement smart grid technology to improve system performance and reliability. Consolidated serves more than 17,000 customers.
Electric	OK	Verdigris Valley Electric Cooperative	11/16/2018	\$20,100,000	This Rural Development investment will be used to build or improve 35 miles of line to provide reliable electric service to 1,103 consumers. These improvements will benefit nearly 36,500 residential and commercial consumers served over approximately 4,478 miles of line in Nowata, Osage, Rogers, Tulsa and Washington counties. These investments are expected to improve electric resilience while continuing to provide affordable power for rural Oklahoma communities.
Electric	OR	West Oregon Electric Cooperative	09/04/2019	\$8,482,000	This Rural Development investment will be used to connect 79 customers, and build and improve 49 miles of line. These improvements will enhance distribution capacity and ensure greater reliability of service to rural communities. West Oregon, headquartered in Vernonia, serves more than 4,400 customers over 695 miles of line in five counties in northwestern Oregon.
Electric	OR	Tillamook People's Utility Dist	09/26/2019	42,575,000.	This Rural Development investment will fund 10 new line miles, improve 231 miles of distribution line and add 600 new consumers. In

					addition, this loan will finance installation of nine new miles of transmission line and anew headquarters facility to efficiently serve member loads. Tillamook serves more than 21,000 consumers over 1,200 miles of line.
Electric	SC	Edisto Electric Cooperative	04/08/2019	\$30,000,000	This Rural Development investment will be used to build and improve 319 miles of line and invest \$3.2 million in smart grid technologies. These improvements will enhance system resilience and reliability. Edisto, headquartered in Bamberg, S.C., serves more than 20,000 residential and commercial consumers over nearly 3,600 miles of line in eight counties in South Carolina.
Electric	SC	Horry Electric Coop	08/05/2019	79,730,000.	This Rural Development investment will fund 277 new miles of line, improve 220 miles and connect 8,800 new consumers.
Electric	SD	West River Electric Association	11/07/2018	\$30,338,000	This Rural Development investment will be used to build or improve 163 miles of line, serve 1,049 new customers and finance \$2.4 million in smart grid technologies to increase system operational efficiencies and resilience, while delivering affordable power to 16,920 residential and commercial consumers. West River's service territory is dependent on agriculture, tourism and business activity. The eastern portion of the area is sparsely populated with farms and ranches producing wheat and cattle. It

					has experienced steady growth due to the growth near Ellsworth Air Force Base, the Black Hills and the Badlands.
Electric	SD	Black Hills Electric Cooperative	11/28/2018	\$14,842,000	This Rural Development investment will be used to build or improve 101 miles of line, provide reliable electric service to 500 new customers and will finance more than \$1.6 million in smart grid technologies. The loan will increase operational efficiencies and resilience to continue to provide reliable and affordable electric service to 9,800 residential, seasonal and commercial consumers across 2,600 miles of line in six counties. Agriculture is the cornerstone of the region's economy. Ellsworth Air Force base and the scenic Black Hills contribute to the area's increasing economic diversity.
Electric	SD	Bon Homme Yankton Electric Association	12/21/2018	\$9,016,000	This Rural Development investment will be used to build or improve 118 miles of line, serve 228 new, rural consumers and finance \$434,356 in smart grid technologies. Bon Homme provides electricity to more than 3,800 consumers over 1,300 miles of line in four counties in southeastern South Dakota. Its service territory is primarily agricultural, including cattle producers and

					farms growing corn and soybeans.
Electric	SD	Whetstone Valley Electric Cooperative	06/25/2019	\$7,364,000	This Rural Development investment will be used to build and improve 116 miles of line serving 146 new consumers, and invest \$305,100 in smart grid technologies to improve system efficiencies and resilience. Whetstone provides electric service to 3,422 consumers over 1,482 miles of line in Roberts, Codington and Grant counties in the northeastern South Dakota.
Electric	SD	Central Electric Coop Inc	08/05/2019	26,780,000.	This Rural Development investment will connect 353 new consumers, fund 127 new miles and improve 302 miles of distribution line. These improvements will enhance distribution capacity and ensure greater reliability of service to rural communities. There is \$2,713,412 of Smart Grid or fiber projects included in this loan. Central Electric Cooperative, Inc., headquartered in Mitchell, South Dakota serves more than 7,100 consumers over 4,483 miles of line in 13 counties in south central South Dakota.

Electric	SD	East River Electric Power Coop	09/26/2019	198,910,000.	This Rural Development investment will fund 135 new miles and improve 469 miles of transmission line. These improvements will enhance transmission capacity and ensure greater reliability of service to rural communities. There is \$6,220,000 of Smart Grid investment, including 65 miles of fiber optics included in this loan for a total of \$3,370,000. East River Electric Power Cooperative, Inc., headquartered in Madison, South Dakota serves more than 126,517 residential and commercial consumers in 41 counties in eastern South Dakota and 22 counties in western Minnesota
Electric	SD	Douglas Electric Coop	09/30/2019	1,149,608.	Electric Refinancing Program
Electric	SD and ND	Northern Electric Cooperative Inc.	03/06/2019	\$24,825,000	This Rural Development investment will be used to build or improve 360 miles of line to serve 232 consumers. The loan includes \$351,000 in smart grid technologies to increase system efficiencies and grid security. Northern Electric serves more than 6,300 consumers over 2,600 miles of line in 10 counties in northeastern South Dakota and one county in southern North Dakota. Its service area is primarily agricultural, although the area around Aberdeen, S.D., includes a significant amount of industrial and retail activity.

Electric	TN	Appalachian Electric Coop	02/28/2019	5,000,000.	This Rural Energy Savings investments will be used to carry out an on-bill financing program to implement energy efficiency measures. Appalachian Electric Cooperative is headquartered in New Market, Tennessee and provides electric service to approximately 46,200 members over 2,696 miles of line in four counties in eastern Tennessee.
Electric	TN	Meriwether Lewis Electric Cooperative	09/10/2019	\$60,000,000	This Rural Development investment will be used to install \$60 million in smart grid applications. Incorporated in 1939, Meriwether Lewis is a member-owned electric cooperative headquartered in Centerville, Tenn. It serves approximately 34,200 customers over 3,857 miles of line in 12 counties in Tennessee.
Electric	TN and KY	Gibson Electric Membership Corp.	04/04/2019	\$50,000,000	This Rural Development investment will be used to build and improve 272 miles of line and invest \$16.5 million in smart grid technologies to improve system efficiencies and resiliency. Gibson EMC serves approximately 39,000 residential and commercial customers over 3,500 miles of line in Tennessee and Kentucky.
Electric	TX	Heart of Texas Electric Cooperative Inc.	03/08/2019	\$31,254,000	This Rural Development investment will be used to build or improve 1,597 miles of line to improve service to 2,582 consumers. The loan includes \$1.23 million in smart grid technologies. Heart

					of Texas serves 21,300 consumers over 3,750 miles of line.
Electric	TX	North Plains Electric Cooperative	04/29/2019	\$35,440,000	This Rural Development investment will be used to build and improve 163 miles of line and invest \$351,000 in smart grid technologies to improve system efficiencies and resilience. North Plains provides electric service to more than 7,000 residential and commercial customers over 3,779 miles of line across Ochiltree, Roberts, Hansford, Wheeler, Lipscomb, Hutchinson and Hemphill counties in the northeast Texas panhandle.
Electric	TX	Deep East Texas Electric Cooperative	06/26/2019	\$27,375,000	This Rural Development investment will be used to build and improve 218 miles line to connect 2,000 new customers. The cooperative also will invest \$200,000 in smart grid technologies to increase system efficiency and resilience. It serves approximately 42,580 customers over 7,500 miles of line in San Augustine, Nacogdoches, Panola, Shelby, Jasper, Newton, Rusk and Sabine counties.
Electric	TX	Bartlett Electric Cooperative	09/10/2019	\$7,000,000	This Rural Development investment will be used to install 212 miles of fiber cable for smart grid technologies to improve system efficiencies and reliability. Bartlett Electric Cooperative is located in a rural area in central Texas, just northeast of Austin. Its 936-square-miles service area includes

					more than 11,900 customers and about 1,709 miles of line.
Electric	TX	Brazos Electric Power Coop	09/26/2019	99,006,000.	This Rural Development investment will fund the installation of 42 new miles of transmission line, and construction of various projects to improve service to the Brazos' member distribution cooperative customers in rural areas of Texas. Brazos is member-owned, generation and transmission that generates and purchases wholesale electricity and provides bulk transmission services to 16 distribution member cooperatives, as well as the City of Whitesboro in Texas. In turn, these local utilities serve the power needs of approximately 637,000 consumers.
Electric	VA	A&N Electric Cooperative	08/08/2019	\$54,453,000	This Rural Development investment will be used to build and improve 249 miles of line to connect 2,144 customers. The loan includes more than \$5 million for smart grid technology. A&N serves 36,000 customers over nearly 2,500 miles of line in Accomack and Northampton counties in Virginia, and on Tangier Island (Va.) in the Chesapeake Bay.

Electric	VA	Rappahannock Electric Coop	09/26/2019	123,236,000.	<p>This Rural Development investment will fund the construction and reimbursement of the electric distribution facilities, to connect 7,931 consumers across 501 miles of line. This loan will also finance nearly \$31.7 million in smart grid projects to improve reliability and grid communications, including the installation of 800 miles of fiber optic cable and equipment.</p> <p>Rappahannock, the largest cooperative in Virginia, is headquartered in Fredericksburg.</p> <p>Rappahannock serves 163,000 consumers across 17,274 miles of line in 22 counties and one independent city in east central Virginia.</p>
Electric	VA	NRUCFC	09/26/2019	500,000,000.	<p>Rural Development 313A funds will be used to finance rural electric and telecommunications projects nationwide. CFC is a member owned, nonprofit cooperative organized to supplement the loan programs for electric cooperatives offered by RUS. CFC makes loans to rural electric members to acquire, construct, and operate electric distribution, generation, transmission and related facilities, and finances rural telecommunications members and their affiliates.</p>

Electric	VA	Reliable Energy	09/26/2019	3,000,000.	This Rural Energy Savings investment will be used to engineer, procure, install and maintain solar photovoltaic systems.
Electric	VA and WV	Craig-Botetourt Electric Cooperative	03/28/2019	\$5,000,000	This Rural Development investment will be used to build and improve 37 miles of line and invest \$2.2 million in smart grid technologies. Craig-Botetourt Electric Cooperative serves more than 7,100 residential and commercial customers over 1,387 miles of line in six counties in western Virginia and one county in West Virginia. Approximately 50 percent of its mountainous service territory is National Forest Service land.
Electric	VT	Washington Electric Cooperative	08/13/2019	\$8,130,000	This Rural Development investment will be used to finance distribution improvement projects, two transmission projects and a generation project. Washington Electric will build and improve 64 miles of line to serve 330 customers. The loan includes \$168,000 for smart grid technologies. Washington Electric serves approximately 11,460 members over 1,322 miles of line in Orange, Orleans, Washington and Caledonia counties in north central Vermont.

Electric	WA	Orcas Power & Light Coop	09/27/2019	15,000,000.	This Rural Energy Savings investment will finance projects that include heat pump upgrades/replacements, heat pump water heater upgrades/replacements, SMART water heaters, whole house retrofits, community/residential solar and electric vehicle charging stations.
Electric	WI	OE WI Solar 1, LLC	05/17/2019	\$935,000	This Rural Development investment will be used to build a solar photovoltaic farm on 6.5 acres in the town of Portland. The farm will provide electricity to Northern States Power Company, which will provide renewable energy to its customers.
Electric	WI	Clark Electric Cooperative	08/07/2019	\$7,000,000	This Rural Development investment will be used to connect 447 customers and build and improve 69 miles of line. The loan includes nearly \$1.9 million in smart-grid technologies. Clark serves almost 9,200 customers over 1,996 miles of line in Marathon, Chippewa, Taylor, Jackson, Clark and Wood counties in central Wisconsin.
Electric	WI	Jump River Electric Cooperative	09/03/2019	\$11,000,000	This Rural Development investment will be used connect 461 customers and build and improve 133 miles of line. This loan includes nearly \$1.5 million for smart grid technologies. Jump River is headquartered in Ladysmith, Wis. It serves more than 9,000 members over 1,769 miles of energized line.

Electric	WI, IA, IL, MI and MN	Dairyland Power Cooperative	03/08/2019	\$84,760,000	This Rural Development investment will be used to build 18 miles of transmission line and upgrade 174 miles. Dairyland also will make improvements at several generating plants. It is a non-profit generation and transmission cooperative that provides wholesale electric service to 24 distribution members and 17 municipalities in Illinois, Iowa, Michigan, Minnesota and Wisconsin. It has a diversified mix of generation resources consisting of coal, hydro, natural gas, wind, biomass, animal waste and solar. Its service territory is 59 percent residential, 15 percent small commercial and 26 percent large commercial. Dairyland's member cooperatives serve 263,000 consumers.
Total				5,780,330,472.	112 Loans

Rural Utilities Service Electric Program FY 2019 High Energy Cost Grants			
Applicant Legal Name	Project Description	Grant \$ Requested	State
The Denali Commission – for Chitina, AK	Five Mile Creek Hydro – Construction of a 300-400 kW hydroelectric generating facility, penstock to include access road, turbine house, electrical tie-in and controls to displace 90% of annual diesel fuel consumption by the utility in Chitina, AK (pop 126).	(Obligated 7/26/2019) \$3,000,000.00	AK
Pilot Point Native Corporation	Pilot Point Box Solar – To fund the purchase, shipping and installation of a 32,340 watts container-mounted solar array and related	219,660.00	AK

	inverter and battery system to provide power to the only community owned store in Pilot Point, AK (pop 68).		
MTNT Energy, LLC	McGrath AK System Upgrades – Replace and relocate the existing McGrath Power Plant (\$2,589,652) and implement distribution upgrades (\$411,625) in McGrath, AK (pop 345).	2,953,960.00	AK
TDX Adak Generating, LLC	Adak Power Plant Relocation and Upgrade Project – This Aleutian island project will fund Phase I and part of Phase II needed to remedy structural deficiencies and line losses associated with existing plant that served a population of 6,000 and a Navy base that closed in 1997. The bulk of grant funds will be used to purchase and install a new diesel gen-set, emission control system fuel distribution and storage tanks, as well as hot water heat exchangers for a heat recovery system at City Hall for the town of Adak, AK (pop 361).	3,000,000.00	AK
INN Electric Cooperative, Inc.	INN Energy Upgrades – Funds to be used for a standby emergency generator (\$957,217), lighting upgrades (\$11,430) and hydro energy recovery electric heaters (\$13,2,250) to be installed at the Iliamna airport. Nondalton, AK is the primary beneficiary community (pop 164).	(Obligation request sent 8/8/2019) 999,897.00	AK
Tanalian Electric Cooperative, Inc.	Port Alsworth System Improvements – Funding to complete the construction of an earlier upgrade project primarily consisting of a 3 rd generator (\$401,120), heat recovery for the school and electrical distribution upgrades (pop 159).	755,869.00	AK
Northwest Arctic Borough	A 150 kW Solar photovoltaic and 670 kW lithium battery storage system for the communities of Shungnak (pop 262) and Kobuk (pop 151) that will allow for periods of diesels-off operation.	1,291,675.72	AK
City of Teller	Heat Recovery jacket on existing diesel power plant where recovered waste heat is to be delivered to essential community end users (water treatment plant, washeteria, city admin building and clinic) in the City of Teller, AK (pop 256).	958,705.00	AK
TOTAL:		\$13,179,766.72	8 Grants



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SAV Execution Guide Change	Date	Name
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Document Overview

The purpose of this guide is to provide a Service Area Validation (SAV) framework for approval by the United States Department of Agriculture (USDA) in support of the ReConnect Grant and Loan Program. The process provided in this document was drafted by Corner Alliance – Deloitte to support determinations of whether sufficient access to broadband exists in proposed service areas, per the requirements in Task Order 2 in the CLIN 002 performance work statement (PWS). This document reflects details consistent with the high-level framework presented to the USDA on May 23, 2019 entitled “USDA SAV Framework Memo submitted 5.23.19.docx” and approved on May 28, 2019.

Process Overview

SAV Purpose

The purpose of a SAV is to determine whether Proposed Funded Service Areas (PFSAs) submitted by applicants for the ReConnect Program meet eligibility requirements described in the Funding Opportunity Announcement. The SAV Review Team performs SAVs to determine the percentage of households in a PFSA that lack sufficient access to broadband. For applicants seeking 100% Grants, 100% of households within the PFSA must have less than 10 Mbps downstream speed and 1 Mbps upstream speed (10/1). For applicants seeking either a 100% Loan or 50% Loan/50% Grant combination must meet a threshold of 90% or more of households in the PFSA must lack sufficient access to 10/1.

SAV Approach Summary

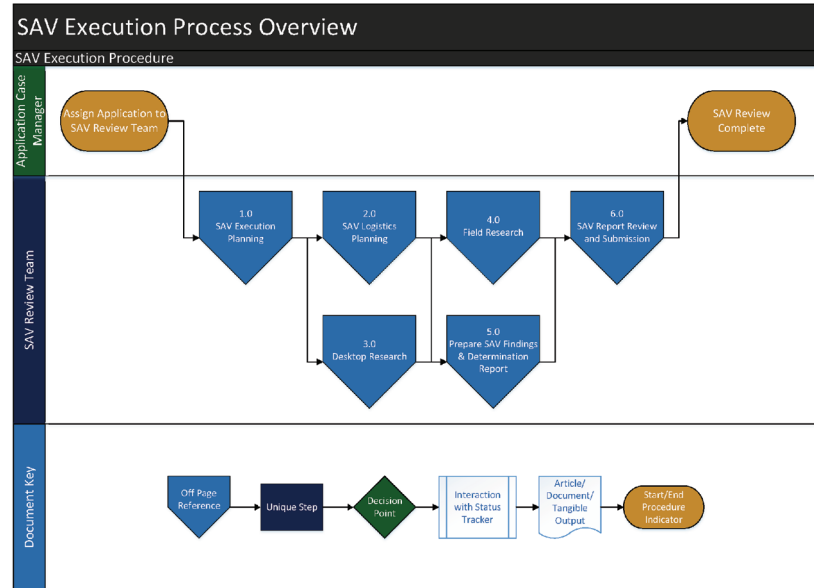
The SAV framework is a holistic approach leveraging past USDA practices followed during similar loan and grant programs. This framework is designed to apply a standardized approach to validating existing service, regardless of the availability of data and underlying characteristics for each service area included across all applications. This approach takes into consideration validation processes from the Federal Communications Commission (FCC) to assist with incumbent service provider speed determinations. Throughout the execution of SAVs, the SAV Review Team adheres to the following USDA guidance:

- The SAV Review Team is not permitted to knock on the doors of households.
- The SAV Review Team is not permitted to enter a household.
- The SAV Review Team is not permitted to use crowdsourced speed test data provided by a third-party aggregator, such as Ookla, to inform the determination of a service area.

The figure below details the SAV review process, which demonstrates notification of a SAV assignment, SAV Review Team staffing, and production and routing of the SAV determination into the application system. The determination entered into the application system shall be treated as a single component of the full application evaluated by USDA when making award decisions. This process is illustrated in **Figure 1**.



Figure 1: Illustrative Process Overview



SAV Data Collection and Field Validation Approach

To maintain consistent treatment of PFSA validations, SAV determinations are a result of four primary activities: Desktop Research, incumbent service provider speed validations, Field Research, and network calculations. Each activity includes a series of steps to collect a broad range of data points that ultimately support the overall determination. The SAV Review Team commits to the following:

1. **Desktop Research:** Examines publicly available data sources to corroborate field level findings. The research includes but is not limited to: FCC Form 477, government and non-profit geolocation datasets such as the USAC map, alternative map data validation, service providers, technologies, broadbandnow.com, Public Notice Response (PNR) specifics, local contacts, household distribution in geography, and other data sources determined as acceptable. If a PNR is not submitted for a PFSA, the SAV Review Team completes Desktop Research utilizing publicly available end-user generated speed test data from identified service providers in the area, in addition to the previously listed sources.



2. **Incumbent Service Provider Speed Validations:** Consistent with FCC processes to validate speed in wireline networks, the SAV Review Team requests and examines datasets from the PNR service provider including data generated by certain network elements or network management systems (NMSs). The request includes data during peak and non-peak network load timeframes. In the event no service provider has responded to USDA's public notice, the SAV Review Team conducts research to identify any service providers in the given PFSA and submit similar requests to those identified competitors. The SAV Review Team expects its requests may not be responded to by the service providers.
3. **Field Research:** Conducts interviews with service provider technical personnel, government officials, representatives of community anchor institutions and subscribers of the service providers. For technical personnel, the focus is on gaining a detailed understanding of the technologies providing service and the infrastructure supporting the service. For subscribers, the focus is on understanding the user perceived speed of the network. The SAV Review Team performs physical network observations in the field regardless if a PNR has or has not been submitted for a particular PFSA.
4. **Network Calculations:** Based on the technology deployed, certain high-level calculations are made to validate the sufficiency of infrastructure to support 10/1. This process is completed regardless the presence of a PNR and it is noted that information necessary to perform the calculations may not be made available by the provider(s).

Assumptions of the SAV Approach

As the SAV Review Team executes the SAV approach, several key assumptions are observed. Local community members are likely not experts in broadband capabilities and may be unable to accurately convey a locality's broadband speed. In addition, there are many links in any given data communications chain that ultimately determine speed. The SAV Review Team only evaluates the links that are under the providers control. In the event there are no other providers involved in the service delivery, the point of demarcation for evaluating the links will be where the traffic is handed off such as a Central Office or Point of Presence. The SAV Review Team is not able to evaluate any variables that may occur within the walls of a household (such as a dysfunctional router, etc.). SAV findings provide a determination on whether the service area is eligible or not in accordance to this validation process.

While the guide below details the SAV approach to all applications submitted under the ReConnect Program, each application is unique. Applications will vary across a number of variables which will determine the time and effort to complete. These include:

- The number of PFSAs;
- The size of PFSAs;
- The relative distance between PFSAs;
- The number of service providers operating in, and/or in close proximity to PFSAs;
- The number of SAV resources and staff; and,
- The availability of, and access to, data analyzed during the SAV process.



Service Area Validation Findings and Determination

For 100% Grants, the Team makes its determination in the following manner:

1. If SAV activities and data points gathered in the four activities described above suggest the service area has sufficient access to the required speed and coverage threshold, the SAV Review Team's determination states whether sufficient access to broadband exists.
2. If findings from the four activities described above suggest the service area does not have the required speed and coverage, the SAV Review Team's determination states sufficient access to broadband does not exist.

For the 50% Loan/ 50% Grant combination and 100% Loan applications, the SAV Review Team makes a determination in the same manner. Since these applications require only 90% of households lack sufficient access, the SAV Review Team determination is based on available information and data, which may need to be extrapolated out to assess the 90% threshold.

The nature of certain projects and service areas may limit the data available for analysis. Under such circumstances, the determination is based on the data available. The SAV Review Team provides USDA a report of data sources, the data captured, and a determination based on that dataset. The data points that are collected and memorialized in the SAV Findings and Determination Report, as available, for each SAV are provided in **Table 1**.

Table 1: SAV Data Points for Evaluation

Data Point	Description
In-Field Interviews	Questions and answers asked of local officials, competitor service provider technicians, the point of contact on the PNR, and citizens for a given PFSA. Questions vary depending on the persons interviewed.
Network Calculations	Transmission technology-dependent network calculations. Data is collected by Field Research Team and populated into the SAV Execution Tool. Calculation expressions are provided under 4.0, Field Research.
Network Observations	Qualitative observations of network infrastructure. If material deficiencies are observed, the Field Research Team is to record them in the SAV Execution Tool.
Other Public Data Sources	Speed test data observations collected from sources not explicitly listed in this guide.
Public Notice Response Information	Notes describing the quality and validity of claims provided in PNR responses collected by Desktop and Field Research Teams.
Service Provider Marketing Collateral	Any advertisements or public assertions of speeds delivered to customers.
Speed Test Data from Network Infrastructure	Network generated speed data requested from a provider's (non-applicant) Customer Premise Equipment (CPE), Network Management Systems (NMS), or other self-developed Transmission Control Protocol (TCP) based speed application.



Table 2 below contains a list of the various roles referenced throughout the SAV Execution Guide.

Table 2: SAV Roles

Term	Description/Definition
Application Case Manager	Member of the application review team who assigns applications to the SAV Review Team. Serves as a liaison between the application review team and the SAV Review Team.
Broadband Subject Matter Expert (SME)	Adjudicates the final SAV determination when concurrences cannot be met throughout the SAV process. The Broadband SME provides on-call advisory throughout the SAV lifecycle to various Team members as needed.
Desktop Advisor	Oversees the execution of Desktop Research activities. The Desktop Advisor is responsible for the production of initial SAV Desktop Research Report and serves as the liaison between Desktop Research Team and SAV Coordinator. Sends initial SAV Findings and Determination Report to SAV Review Lead.
Desktop Researcher	Desktop Research staff and Leads responsible for creating Desktop Research Reports for a SAV of a given PFSA. Desktop Researchers are assigned to individual SAVs with one Primary Desktop Researcher if multiple Desktop Researchers are assigned to a single SAV.
Field Researcher	Field Research staff and Leads responsible for creating Field Research Reports for a SAV of a given PFSA. Field Researchers are divided into Regionals Teams. Teams are located in Arlington, Chicago, and Seattle responsible for executing SAV Field Research in Eastern, Central, and Western states, respectively.
Primary Desktop Researcher	Supports the Desktop Advisor in the coordination of the execution of Desktop Research. Responsible for the coordination of the Desktop Research Team when multiple staff are working on a single SAV.
QC Lead	Member of the Desktop Research Team responsible for updating references, heading numbers, table and figure captions throughout the entire SAV Findings & Determination Report.
ReConnect Program Manager	USDA staff member responsible for managing the ReConnect Program.
Regional Lead	Oversees Field Research activities within their Regions and is responsible for quality assurance of Field Research activities. If unable to arrive at concurrence, the Regional Leads escalate the report to the Broadband SME for adjudication.
SAV Coordinator	Liaison between SAV Review Lead and Desktop and Field Research Teams in planning SAV research efforts.
SAV Leadership Team	Composed of the SAV Review Lead, Regional Leads, Broadband SME and SAV Coordinator, the SAV Leadership Team determines the SAV Execution Order.
SAV Review Lead	Oversees Desktop and Field Research efforts, conducts final checks on each report to ensure completeness and adherence to key report criteria.
SAV Review Team	The entire Team responsible for reviewing a SAV application consisting of: SAV Review Lead, SAV Coordinator, Broadband



Term	Description/Definition
	SME, Desktop Advisor, Desktop Research Team, and Field Research Team.

Table 3 contains a list of SAV articles, outputs, and frequently used terms in the guide.

Table 3: SAV Articles and Terminology

Term	Description/Definition
Desktop Research Report	Report assessing the eligibility of PFSAs via the claims made on an application as well as online research in order to isolate key data points and information, with details culminating in the final SAV report.
Key Network Facilities and Infrastructure	Important network buildings located in a given PFSA to be evaluated by Field Research Team on a SAV.
Local Institutions	Key institutions located in a given PFSA where broadband connectivity measurements are taken by the Field Researchers.
Notification of Assignment	Written notification in the form of an email stating a SAV has been assigned by the Case Manager to the SAV Review Team. The Notification states who is responsible for completing the assigned research by the prescribed deadline.
Notification of Incompleteness	Written notification in the form of an email to the Case Manager containing an itemized list of missing components to from the SAV review packet.
Proposed Funded Service Area (PFSA)	The area (whether all of part of an existing or new service area) where the applicant is requesting funds to provide broadband service. Multiple service areas will be treated as separate stand-alone service areas for the purpose of determining how much of the proposed funded service area does not have sufficient access to broadband. Each service area must meet the minimum requirements for the appropriate funding category to be an eligible area.
Public Notice Response (PNR)	Response to a Public Notice Filing (PNF).
SAV Checklist	A checklist of all required service area information and supporting documentation needed for SAV execution as well as a procedure checklist to be updated throughout the duration of the review to indicate which steps have been completed.
SAV Document Library	The SAV Document Library is stored on SharePoint to be used to log desktop research files and maintain the SAV Execution Tool throughout the Desktop Research Report procedure.
SAV Execution Order	Sequential order of applications and underlying PFSAs that are to be validated. The SAV Execution Order also establishes a proposed SAV Execution Timeline, and key considerations and assumptions.
SAV Execution Tool	VBA-Enabled MS Excel workbook used to record findings and data compiled by Desktop Research Team and Field Research Team. This tool enables execution of a SAV and serve as the data repository from which SAV reports are generated.
SAV Field Worksheet	A checklist of the data logged by Field Researchers.



Term	Description/Definition
SAV Findings and Determination Report	Final version of the report that is sent to the Application Case Manager. The report package includes a decisive and clear eligibility determination along with key information collected throughout the SAV process that contributed to the final determination.
SAV Status Tracker	Tool within SharePoint that logs the review status of each SAV application. The SAV Status Tracker is owned by the SAV Coordinator.
Service Provider	Broadband Service Providers
Travel Itinerary and Cost Estimate	Built from the SAV Execution Tool, the Travel Itinerary and Cost Estimate is a compilation of travel information for a given SAV trip, including the location of lodging, timing of flights, and the availability of rental cars at starting and ending destinations.



1.0 SAV Execution Planning

SAV Execution Planning marks the beginning of the SAV Review Team's involvement in the broader application review process for the ReConnect Program. In order to streamline and expedite reviews, the SAV Review Team adheres to the Execution Planning procedures illustrated below, which consider resource availability and PFSA location(s) for a given application. The procedure kicks off with a review of the service area information materials in a given application routed from the Application Case Manager and culminates with a written request to the SAV Coordinator to organize and schedule Field Research activities.

Independent Operation
When an application is assigned to the SAV Review Status SharePoint List by the Application Case Manager, the SAV Coordinator is responsible for generating the SAV Document Library and items recorded in the SAV Status Tracker List. When the SAV Coordinator changes the field "Generate Directory Structure" on the SAV Review Status SharePoint List, a SharePoint workflow is triggered, automatically creating the directory structure and status tracking record for the application.

The SAV Execution Planning process outputs are provided in Error! Reference source not found..

Table 4: SAV Execution Planning Outputs

Output Item	Required?	Description
Notification of Incompleteness	No	The SAV Coordinator provides written notification in the form of an email to the Application Case Manager and the ReConnect Program Manager containing an itemized list of missing SAV review packet components needed to execute the SAV review.
SAV Checklist	Yes	A checklist of all required service area information and supporting documentation is needed for SAV execution, as well as a procedure checklist that is updated throughout the duration of the review.
Proposed SAV Execution Order	Yes	Based on the analysis performed by the SAV Leadership Team, the SAV Coordinator develops, a priority list of when PFSAs should be validated.
Final SAV Execution Order	Yes	Upon receipt of USDA concurrence, the SAV Review Lead archives the final SAV Execution Order.
Notification of Assignment for Regional Teams	Yes	The SAV Coordinator provides written notification in the form of an email to the appropriate Regional Team stating a SAV in their region has been assigned. The Regional Team is responsible for completing the Field Research procedure by the prescribed deadline.
Notification of Assignment for Desktop Team	Yes	The SAV Coordinator provides written notification in the form of an email to the assigned Desktop Research Team stating a SAV has been assigned. It states who is responsible for completing the Desktop Research procedure by the prescribed deadline.

SAV Execution Planning Procedure

1.1 Review Service Area Information for Completeness

Resource planning begins with a review of the application associated with the PFSA assigned to the SAV Review Team's queue by the Application Case Manager. The SAV Coordinator checks that the SAV review packet contains the following:



- Applicant name and number
- Project descriptions or service area description
- Map of PFSA and associated metadata, including:
 - Number of households,
 - Square mileage,
 - Census Data, etc.
- Competitor service offerings (no price)
- PNF and PNR package

The SAV Coordinator prepares the *SAV Checklist*, as shown in **Table 5** below, that is included as an attachment in the *Notification of Assignments for Desktop Research and Regional Teams*.

Table 5: SAV Checklist

Item	Observations					
Master Checklist	Complete?				Initial	Date
SAV Review Package received?	[Yes or No]					
SAV Execution Order established?	[Yes or No]					
Travel authorized?	[Yes or No]					
Field logistics finalized?	[Yes or No]					
Desktop Research complete?	[Yes or No]					
Field Research complete?	[Yes or No]					
Determination made?	[Yes or No]					
Quality Check complete?	[Yes or No]					
Concurrence/approval on determination?	[Yes or No]					
SAV report submitted?	[Yes or No]					
Data archived?	[Yes or No]					
Desktop Research Checklist (for each PFSA)	Competitive Service Provider review complete?	Speed Test complete?	PNR review complete?	Local Contact Information complete?	Initial	Date
[PFSA Name]	[Yes or No]	[Yes or No]	[Yes or No]	[Yes or No]		



Item	Observations					
[PFSA Name]	[Yes or No]	[Yes or No]	[Yes or No]	[Yes or No]		
Field Research Checklist (for each PFSA)	Field Research complete?	Eligibility determination		Initial	Date	
[PFSA Name]	[Yes or No]	[Eligible or Ineligible]				
[PFSA Name]	[Yes or No]	[Eligible or Ineligible]				

1.1.1 Decision Point—Service Area Information Sufficiently Complete?

If the review packet associated with the PFSA under review is incomplete or missing service area information needed to conduct the SAV, the SAV Coordinator with the support of the SAV Review Lead proceeds to step 1.1.2. If the service area information is sufficiently “complete” and contains the minimum required information, data, and documentation to execute the SAV, the SAV Coordinator proceeds to step 1.1.21.1.3.

1.1.2 Obtain Missing Service Area Information From Case Manager

If the SAV Coordinator determines there are missing items needed for SAV execution, the SAV Coordinator prepares the *Notification of Incompleteness* and promptly routes the notice to the Application Case Manager and the ReConnect Program Manager. The notification must contain an itemized list of missing service area materials, information, and data. The SAV Coordinator includes any additional materials, information, and data obtained as a result of the completeness check as supplemental attachments to the *SAV Findings and Determination Report* and ensures the materials are archived in the application-specific folder on SharePoint. In the event that the Application Case Manager does not have additional materials to provide, then the SAV Review packet is incomplete and the ReConnect Program is notified.

1.1.3 Identify PFSA Region

After the completeness check has been processed, the SAV Coordinator determines the region in which the PFSAs for a given application is located. To improve efficiency and reduce review time, the country has been stratified into three distinct regions that are within reasonable travel time of the regional home offices. **Table 6** provides an itemized list of U.S. states and territories that constitute each region.

Table 6: Regional Stratification of U.S. States

West	Central	East
Alaska	Arkansas	Alabama
Arizona	Colorado	Connecticut
California	Illinois	Delaware
Hawaii	Iowa	Florida
Idaho	Kansas	Georgia
Nevada	Louisiana	Indiana



West	Central	East
Oregon	Minnesota	Kentucky
Utah	Mississippi	Maine
Washington	Missouri	Maryland
American Samoa*	Montana	Massachusetts
Guam*	Nebraska	Michigan
Northern Mariana Islands*	New Mexico	New Hampshire
	North Dakota	New Jersey
	Oklahoma	New York
	South Dakota	North Carolina
	Texas	Ohio
	Wisconsin	Pennsylvania
	Wyoming	Rhode Island
		South Carolina
		Tennessee
		Vermont
		Virginia
		West Virginia
		Puerto Rico*
		U.S. Virgin Islands*

*U.S. territories will only receive a SAV after a complete review of the application.

1.2 Analyze PFSAs for Priority Ranking

Once the application region has been identified, the SAV Review Lead, SAV Coordinator, Desktop Advisor, Regional Lead, and Broadband SME analyze the cohort of applications and underlying PFSAs to determine a proposed priority ranking for a *SAV Execution Order*. Collectively, the SAV Leadership Team considers the total number of square miles, population density, score number of PFSAs and relative proximity to one another to determine an ordering in which PFSAs are validated.

As 100% loan applications are submitted and reviewed on a rolling, first-come, first-serve basis, the analysis excludes 100% loan applications from the ranking. Upon receipt of 100% loan applications, the SAV Review Lead proposes a start and end date to conduct the SAV for the loan application around the time when other SAVs are conducted in nearby areas.

1.3 Propose Application and SAV Execution Order

Once the SAV Leadership Team has prepared the *SAV Execution Order*, the SAV Review Lead routes the proposal to USDA for concurrence reviews. The SAV Review Lead may set up meetings with USDA stakeholders to explain assumptions underlying the proposal and address any questions. A proposed *SAV Execution Order* includes the items provided in **Table 7**.

Table 7: Proposed SAV Execution Order Package

Proposal Item	Required?	Description
Proposed SAV Execution Order	Yes	Based on an analysis performed by the SAV Review Team, PFSAs are listed in order of priority and batched into groups.



Proposal Item	Required?	Description
Proposed SAV Execution Timeline	Yes	A Gantt chart illustrating the proposed processing of applications given the proposed priority ranking. If service areas for multiple applications are addressed in a single visit, the timeline illustrates clusters of applications.
Key Considerations and Assumptions	Yes	The SAV Review Team includes any and all assumptions used to support the proposal.

1.3.1 Decision Point—Concur on SAV Execution Order?

Upon receipt of the proposed *SAV Execution Order*, USDA reviews the proposal and provides concurrence. If the USDA objects to the proposal, the SAV Review Team, led by the SAV Review Lead, adjusts the proposal accordingly until concurrence is achieved by proceeding back to step 1.2. Once concurrence is achieved, the SAV Coordinator archives the final *SAV Execution Order* as described under step 1.4.

1.4 Archive Final SAV Execution Order and Update SAV Checklist

Once concurrence from USDA is obtained, the SAV Coordinator archives the final *SAV Execution Order* in the SAV Document Library on SharePoint and updates the *SAV Checklist*.

1.5 Send Notifications of Assignments to Regional Leads and Desktop Research Team

Upon receipt of concurrence from the USDA, the SAV Coordinator prepares the *Notification of Assignment for the [Identified] Regional Team* and the *Notification of Assignment for Desktop Research Team*. The notifications are prepared in email format and routed to the appropriate Teams stating which applications and underlying PFSA they are responsible for validating. Furthermore, these notifications include the estimated completion dates for each SAV. The notifications of assignments should be prepared and delivered upon receipt of concurrence from USDA on the final *SAV Execution Order*. The information, items and data provided in Error! Reference source not found. are included in the notification message. Additionally, all official communications, including emails, are archived in the SAV Document Library for audit purposes.

Table 8: Notification of Assignments Package

Notification Materials	Required?	Description
A PDF of the application associated with the PFSA assigned for review	Yes	The application PDF provided by the case manager, available in the SAV Review queue.
Application number	Yes	The ReConnect application number.
Common name of the applicant	Yes	The common name of the applicant as provided in the application.
PFSA location details	Yes	PFSA location details include the following at a minimum: <ul style="list-style-type: none"> • State • Number of households • Population center



Notification Materials	Required?	Description
		<ul style="list-style-type: none"> Counties (as available) Zip codes (as available) Geographic coordinates (as available)
SAV Checklist	Yes	A checklist of all required service area information and supporting documentation needed for SAV execution.
Additional materials acquired during the completeness check	As Available	All additional information, materials, and data acquired from the Case Manager as a result of the completeness check.
PNR Status	Yes	An indication of the status and availability of a PNR submitted in response to the PNF for the PFSA under review. If a PNR has been submitted, all PNR materials are included as attachments in the notification delivery.
Desktop and Field Research start and end dates	Yes	The start and end dates for which the Desktop and Field Research is to be completed as provided by the SAV Review Lead in SharePoint.
Regional Team Contact Information	Yes	Email addresses and mobile phone numbers for the Field Research staff operating in the appropriate region.
SAV Document Library File Path	Yes	The location of the SAV Document Library on SharePoint.

1.6 Log Assignment

Upon receipt of the *Notification of Assignment for the Regional Team*, the Regional Lead logs the *Notification of Assignment* in the SAV Document Library.

1.6.1 Decision Point—Does the Volume of Applications Warrant Changes in Current Staffing Levels?

Based on the number of applications received for a given funding category, the Regional Team determines whether current staffing levels are sufficient to conduct all SAVs in the timeline established by USDA. If additional resources are needed, the SAV Review Lead and Regional Team proceed to step 1.6.2. If additional resources are not needed to execute the SAVs, the SAV Review Lead and Regional Team proceed to step 1.7.

1.6.2 Allocate Additional Resources & Schedule Training Sessions

If the need for additional resources is required to successfully complete all SAVs, the SAV Review Lead and Regional Team procure additional resources and schedule training. Additional resources meet the qualifications approved by USDA and complete the training before deployment. The SAV Review Lead and Regional Team may proceed to step Error! Reference source not found. without having fully on-boarded and trained new Field Research staff, but onboarding and training must be completed before the estimated Field Research start date.

1.7 Update Status Tracker

After the SAV assignments have been routed to the Regional Leads, and the need for additional Field Research staff has been determined, the SAV Coordinator updates the SAV Status Tracker



for each application, documenting the anticipated start and end dates of Desktop and Field Research.



2.0 SAV Logistics Planning

Field Research scheduling procedures are designed to increase efficiency and enable the Regional Teams to sync with the Desktop Research staff and SAV Coordinator as the Field Research staff prepare to enter the field. Scheduling Field Research activities must be preceded by successful completion of the Execution Planning procedure described in section 1.0, but the scheduling of these activities can be executed concurrently with the Desktop Research procedure described in section 3.0. In order to streamline and expedite reviews, the SAV Coordinator, SAV Review Lead, and applicable Regional Team adhere to the procedure below which is designed to ensure efficiency in the execution of the SAVs and compliance with federal travel regulations. The procedure kicks off with approval from USDA on the *SAV Execution Order* and culminates with a suggested travel itinerary and cost estimate.

2.1 Receive and Review SAV Execution Order

Once concurrence on the *SAV Execution Order* has been obtained from the USDA, the SAV Review Lead routes the order to the SAV Coordinator. The SAV Coordinator acknowledges receipt, indicating the request from the SAV Review Lead is in process.

In order to assist the Field Research staff with their reviews, the SAV Coordinator reviews the *SAV Execution Order* to determine the most cost/time efficient routes for conducting validations in the PFSA. Equipped with the *SAV Execution Order*, the SAV Coordinator considers the locations of specific areas within PFSA, their relative distance to one another, and the estimated travel time from one PFSA to another in the approved priority order. This analysis serves as a critical input to developing the draft travel itinerary and cost estimate as described under step 2.3. The SAV Coordinator may solicit the Desktop Research Team and Regional Team Lead in this review of PFSA.

2.2 Identify Travel Logistics

Upon review of the *SAV Execution Order* and the locations of areas within a PFSA within an application, the SAV Coordinator determines if it is faster to drive or fly from one PFSA to the next. For Field Research activities that require air travel within a given market, the SAV Coordinator identifies regional and/or national airports within close proximity to PFSA to be reviewed. Given the priority ranking and sequencing of application processing, the SAV Coordinator suggests preferred airports and locations of lodging.

2.3 Prepare Draft Travel Itinerary and Cost Estimate

After the *SAV Execution Order* has been determined and whether there is a need to fly to particular locations during a deployment, the SAV Coordinator prepares the draft travel itinerary and cost estimate for the Regional Team's Field Research activities. This itinerary includes the airport the Regional Team must fly in and out of, location for potential lodging facilities, and the applicable U.S. General Services Administration (GSA) per diem rates. Once this is prepared, the SAV Coordinator ensures all pre-travel authorizations are completed prior to step 2.4.



Table 9: Draft Travel Itinerary Items

Itinerary Items	Required?	Description
Sequential ordering of airports and travel dates thereto	Yes	Based on the <i>SAV Execution Order</i> approved by USDA, the SAV Coordinator prepares a list of locations, highlighting key considerations, airports, and dates in sequential order.
Location of lodging facilities	Yes	For each trip, the SAV Coordinator identifies general locations of lodging facilities in which Field Researchers can obtain overnight accommodations.
Per Diem Rates	Yes	Based on the GSA tax jurisdictions identified by the SAV Coordinator, the appropriate rates are added to the draft itinerary for the Regional Team's awareness.

2.4 Route Draft Itinerary to Regional Team for Booking

Upon approval from the D.C. office, the SAV Coordinator routes the draft itinerary to the assigned Regional Team for booking. **Table 9** above provides the materials to be shared with the Regional Team.

2.5 Book Travel

Upon receipt of the draft itinerary from the SAV Coordinator, the Regional Team books their travel arrangements. Travel arrangements are booked at the lowest available rate at the time of booking, unless the lowest available fares and rates do not allow the Regional Team to meet the mission objectives and timelines. In order to give assurance of lowest available rates on flights and car rentals, the individual booking travel provides documentation. If a flight not at lowest cost is being considered, the Regional Team must return to the SAV Coordinator for approval. Additional justification is provided for why the higher cost is appropriate to meet the mission objectives and timelines.

2.6 Route Booked Travel Itinerary to SAV Coordinator


Once the Regional Team has received confirmation of their travel bookings, they route the final itinerary to the SAV Coordinator.

2.7 Archive Final Itinerary, Update SAV Checklist and Notify SAV Review Lead

The SAV Coordinator promptly archives the final, booked itinerary obtained from the Regional Team, and provides written notification via email to the SAV Review Lead, indicating that travel arrangements have been confirmed. The SAV Coordinator also updates the *SAV Checklist* indicating step 2.0 is complete. **Table 10** contains the materials and information to be included in the Final Itinerary package.

Table 10: Final Itinerary

Itinerary Items	Required?	Description
Final itinerary	Yes	Based on the <i>SAV Execution Order</i> approved by USDA, the SAV Coordinator prepares a list of locations, highlighting key considerations, airports, lodging facilities, and dates in sequential order.
Applications to be reviewed during the trip	Yes	If all PFSAs for a given application are validated during this trip, the SAV Coordinator provides that information. PFSAs may be

<div><div>United States Department of Agriculture Rural Development</div><div>ReConnect Program reconnect.usda.gov</div></div>		
Itinerary Items	Required?	Description
		completed in various trips depending on the geographic locations and the number of PFSAs.



3.0 Desktop Research

Desktop Research activities serve as a core SAV exercise. The objective of Desktop Research is to assess the eligibility of PFSAs via the claims made on the application as well as online research in order to isolate key data points and information. The outputs of this procedure are considered by the Field Research Team as they perform the procedure described under section 4.0, Field Research. This procedure begins with the creation of application directories on SharePoint and culminates with the production of the *Desktop Research Report*.

Desktop Research Procedure

3.1 Initiate Desktop Research and Conduct Data Collection

Once the SAV Document Library for the application is added to SharePoint, the Desktop Researchers assigned to the review begin Desktop Research activities. Using the information provided in the application materials and *Notification of Assignment for Desktop Research Team*, the Desktop Research Team starts populating the *SAV Execution Tool*. The data provided is pulled into the draft *Desktop Research Report*, prepared during procedure 5.0, Prepare SAV Findings and Determination Report.

The Desktop Researcher(s) assigned to the application work collaboratively to locate and record the Desktop Research findings. If multiple Desktop Researchers are assigned to an application, Desktop Researchers upload the *SAV Execution Tool* to SharePoint as a way to hand off the tool to one another. If Desktop Research takes multiple days, the SAV Execution Tool the Desktop Researcher uploads the *SAV Execution Tool* to SharePoint at the end of each day. If the Desktop Research Team believes the findings suggest a service area is ineligible based on the data found through Desktop Research, they are to alert the SAV Review Lead, who coordinates with USDA and the application review team.

Table 11 lists the summary of Desktop Research findings for an application, produced in the Desktop Research *SAV Execution Tool*.

Table 11: Desktop Research Data Fields

Field	Observation Description
SAV Review Lead	[Last Name, First Name, (Credential)]
Desktop Researcher	[Last Name, First Name, (Credential)]
Desktop Researcher	[Last Name, First Name, (Credential)]
Application Name (Number)	[As provided on the Application]
Common Name of the Borrower	[As provided on the Application]
State(s)	[As provided on the Application]
Funding Category	[As provided on the Application]
Total Number of PFSAs	[As provided on the Application]



Field	Observation Description
Proposed Geographic Footprint	[Total Square Miles]
Preliminary Eligibility Determination	["Eligible" or "Ineligible"]
Desktop Research Summary of Findings	[Free form text response justifying eligibility finding]

Desktop Research activities include four main components: review PNR submissions, identify contact information for local stakeholders, research publicly available speed test data, and identify competitor service providers.

3.1.1 Decision Point—Was a PNR Submitted for any PFSA's?

If a PNR was submitted, the Desktop Research Team proceeds to step 3.1.2. If no PNR was submitted, the Desktop Research Team proceeds to step 3.1.3.

3.1.2 Execute PNR Evaluation Procedure for the PFSA

Upon receipt of the PNR for a given application, the Desktop Research Team validates the claims provided by the PNR respondent. To complete this step, the Desktop Research Team:

1. Contacts the respondent: The Desktop Research Team may make up to three attempts to get in contact with the respondent. During this step, the Desktop Research Team confirms the information provided in the PNR with a representative of the respondent service provider and collects any missing information from blank fields on the PNR. The Desktop Research Team records any claims that contradict information provided in the PNR and inquires as to why these claims should be considered over the original claims provided in the PNR. If the call is with another representative other than the point of contact (POC) listed on the PNR, the Desktop Research Team verifies the contradictions with the designated POC. Once the contact is complete, the Desktop Research Team archives materials and data collected during the call in the SAV Execution Tool and SAV Document Library. Desktop Researchers confirm the following during PNR review:
 - a. Respondent (service provider)
 - b. Upload and download speeds (Mbps)
 - c. Service offerings and types
 - d. Number and location of residential customers (households) claimed to have sufficient access to broadband within the PFSA
 - e. Subscriber count
 - f. Square miles
2. Collects contact information for Field Researchers to schedule and conduct field interviews with representatives of the respondents.
3. Cross-references the claims against publicly available speed test data as described under step 3.1.4.



3.1.3 Prepare Local Stakeholder List

During this step, the Desktop Research Team researches local insitutions, locations of key network facilities and infrastructure, the physical addresses of the non-applicant service providers located in a given PFSA, and other locations that may be visited during Field Research. See Appendix “X” [will be updated upon completion of Appendices] for a suggested list of local stakeholders to look for and identify in PFSAs.

Once the PFSA location details have been identified, the Desktop Research Team reviews the application materials to identify PFSA stakeholders. PFSA stakeholders may include technicians from service providers, operating in the PFSA or in areas that are located in close proximity to the PFSA boundaries, local government or municipality officials operating in the PFSA, and other service providers operating in close proximity to the PFSA identified through Desktop Research. State Broadband Coordinators or other representatives from the Governor’s office are local stakeholders that must be identified and contacted to inform them of Field Research activities that will take place.

Generally, the people identified during this step serve as resources that can corroborate or opine on the access to service and claims made in the application regarding speed and coverage in the PFSA. The Desktop Research Team is responsible for finalizing the list of contact information which is included in the draft *Desktop Research Report*. Addresses of local stakeholders may also be helpful while conducting research on publicly available speed test data.

3.1.4 Research Publicly Available Speed Test Data

Table 12 summarizes the data observations captured when the Desktop Research staff review third party publicly available speed test data for a particular PFSA for a given application.

Table 12: Speed Test Data Provider Fields

Form	Information Collected
3rd Party Speed Test Data Observations	
M-Lab	<ul style="list-style-type: none"> • PFSA Observed • Search Location Details • Service Provider Name • Download Speed (last 3 months) • Upload Speed (last 3 months) • URL • Notes • Finding

Form	Information Collected
USAC	<ul style="list-style-type: none"> • PFSA Observed • Search Location Details • Service Provider Name • Download Speed • Upload Speed • Longitude • Latitude • URL • Notes • Finding
BroadbandNow.com	<ul style="list-style-type: none"> • PFSA Observed • Zip Code Search • Service Provider Name • Download Speed (Past month) • URL • Notes • Finding
FCC Form 477	<ul style="list-style-type: none"> • PFSA Observed • Search Location Details • Service Provider Name • Download Speed (Most recent) • Upload Speed (Most recent) • URL • Notes • Finding
I3 Connectivity Explorer	<ul style="list-style-type: none"> • PFSA Observed • County Searched • Download Speed • Upload Speed • % of Blocks without providers at 10/1 or faster • % of Blocks with at least one provider at 10/1 or faster • URL • Notes • Finding

Desktop Research staff are to adhere to the following procedures when reviewing the publicly available broadband speed test data provider websites. All Desktop Research findings are recorded in the *SAV Execution Tool*.

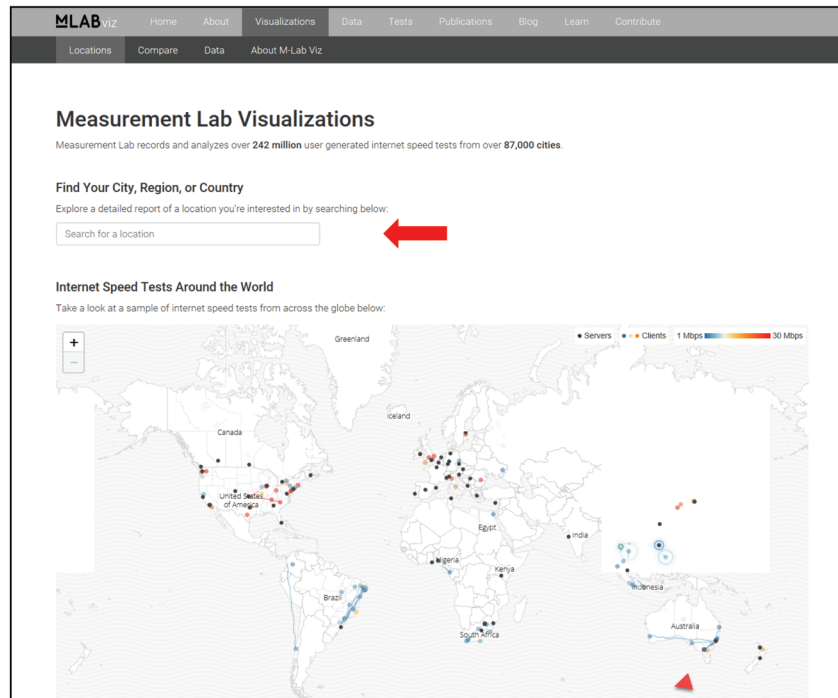
1—M-Lab

1. Navigate to M-Lab via the hyperlink: <https://viz.measurementlab.net>
2. Once in the webpage, select Locations from the top menu. This page allows you to search by City, Region, or Country to obtain a detailed report of the selected location. Desktop Researcher selects an appropriate location within the PFSA, such as large population



centers, to conduct this search. Parameters for selection include population centers, towns, zip codes, etc. Desktop Researchers may select multiple locations to search if the size or irregularity of PFSA shape dictates the need for multiple search areas.

Figure 2: M-Lab Locations Sub-Page Illustration



3. Speed time can be calculated by the hour and reviewed from as far back as a year. The Desktop Research Team should evaluate speeds during peak times, between 5pm and 11pm local time. The metrics can also be compared in intervals and can include different client service providers. **Figure 3** through **Figure 5** illustrate a case example walkthrough.



Figure 3: M-Lab Speed Observations

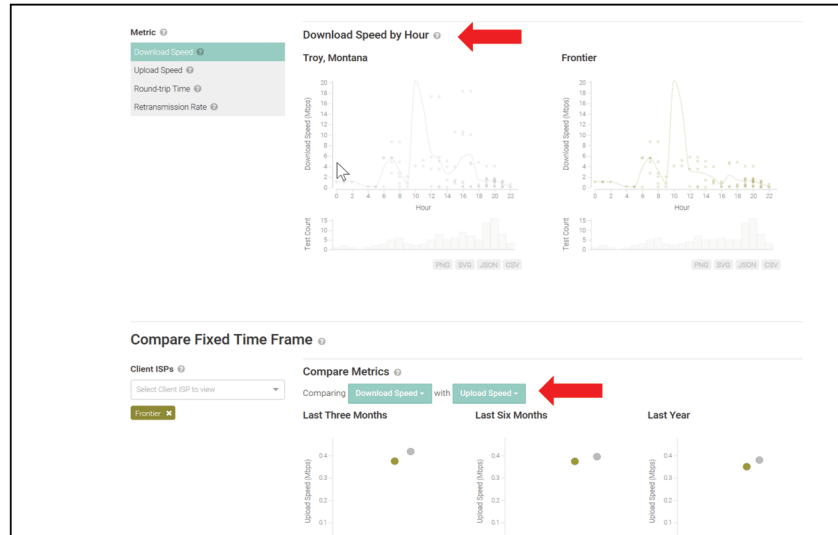
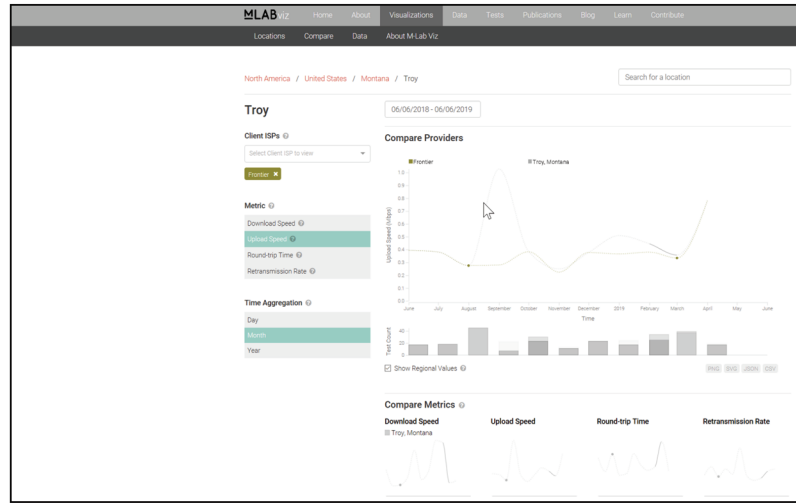




Figure 4: Additional M-Lab Speed Observations



4. Once the location is designated, a detailed comparison summary is provided at the end of the report. This report contains tested download/upload speed averages over the course of a year as shown in **Figure 5**.



Figure 5: Historical Download and Upload Speeds

Summary Data													
Last Three Months													
Name	Tests	Download Speed (Mbps)					Upload Speed (Mbps)					Retransmit	RTT
		Median	Avg	SD	Min	Max	Median	Avg	SD	Min	Max	Avg	Avg
Frontier	81	1.4	3.0	4.7	0.0	36.7	0.4	0.7	1.6	0.0	8.5	3.1%	96.19ms
Troy, Montana	95	1.8	4.6	6.7	0.0	36.7	0.4	1.0	1.6	0.0	8.5	2.6%	92.92ms
Last Six Months													
Name	Tests	Download Speed (Mbps)					Upload Speed (Mbps)					Retransmit	RTT
		Median	Avg	SD	Min	Max	Median	Avg	SD	Min	Max	Avg	Avg
Frontier	141	1.6	3.3	4.7	0.0	36.7	0.4	0.6	1.2	0.0	8.5	3.2%	91.51ms
Troy, Montana	163	2.1	4.8	6.8	0.0	37.0	0.4	0.8	1.3	0.0	8.5	2.9%	84.36ms
Last Year													
Name	Tests	Download Speed (Mbps)					Upload Speed (Mbps)					Retransmit	RTT
		Median	Avg	SD	Min	Max	Median	Avg	SD	Min	Max	Avg	Avg
Frontier	257	1.6	3.4	4.6	0.0	36.7	0.3	0.5	0.9	0.0	8.5	3.1%	94.08ms
Troy, Montana	301	1.8	4.6	6.7	0.0	37.0	0.4	0.7	1.0	0.0	8.5	2.9%	79.08ms

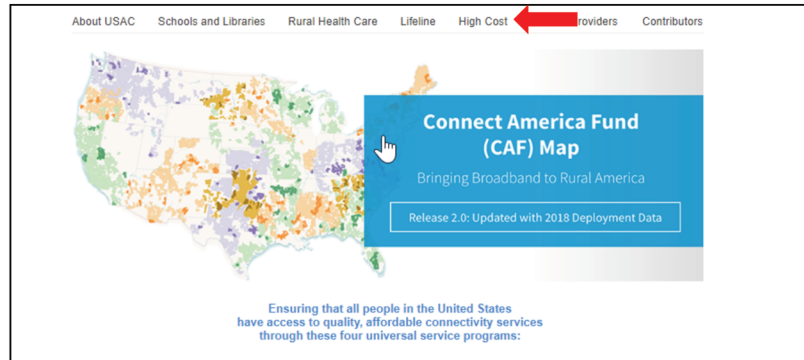
5. For each location observed on M-Lab, users enter the median observed upload and download speeds for the preceding 3 months for each service provider. The Desktop Research Team also documents the URL for the web pages observed in the SAV Execution Tool. In the event no service provider is listed, the Desktop Researcher enters “no provider” in the appropriate field in *SAV Execution Tool* and explain in the notes section.
6. Desktop Researchers may reference *the SAV Execution Tool User Guide* for additional guidance on data entry.
7. Take screen shots of the website and save the screenshots to the application folder of the SharePoint site.

2—USAC

1. Navigate to the USAC website <https://www.usac.org/>
2. Click the “Connect America Fund (CAF) Map” link featured at the top of the webpage.
 - a. Navigate to the “High Cost” link at the top of the USAC home page as shown in **Figure 6**.



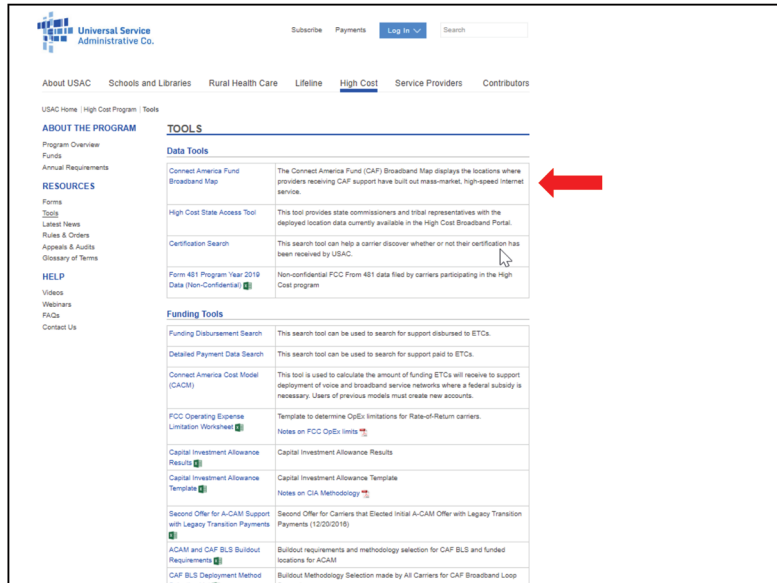
Figure 6: Accessing USAC Speed Test Data



- b. Click the “Connect America Fund Broadband Map” link, under the Data Tools section. Once the map appears, search by state then zoom in further to find the PFSA to be observed.

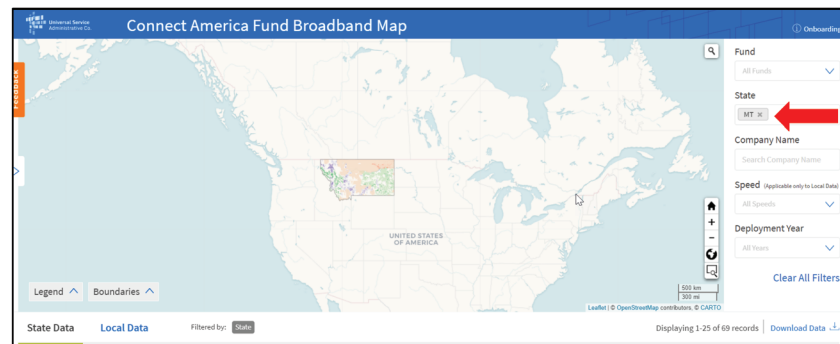


Figure 7: The Connect America Fund Map



- c. Navigate to the State drop-down menu located on the right side of the page, click and select the appropriate state for location details: in this example, MT.

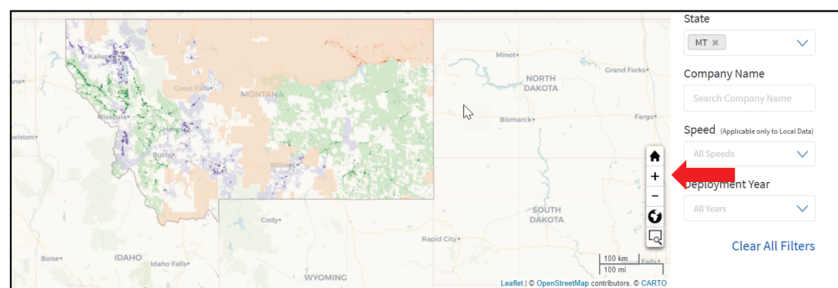
Figure 8: Filter by State





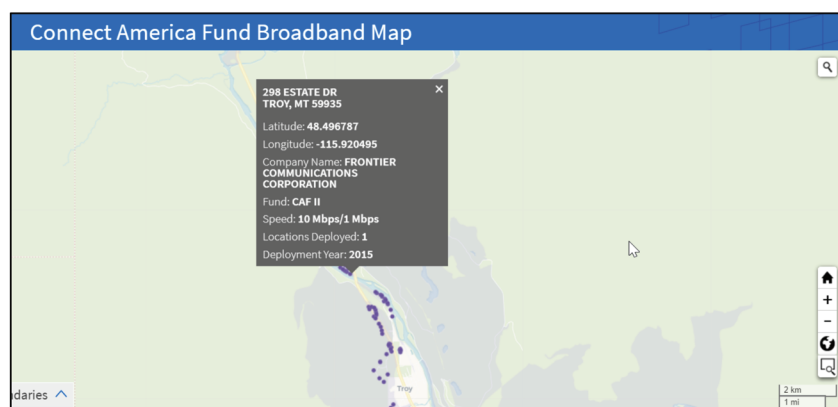
- d. Click on the desired region of the map in which the PFSA/county/zip code lies, then click the zoom “+” button on the map to zoom into the region.

Figure 9: Zoom into Desired Region



- e. Once zoomed in, click on any of the colored dots, representing “deployed locations,” in the PFSA/county/zip code to determine the download speeds.

Figure 10: Service Area Details



- f. Add the observed download and upload speeds to the fields in the SAV Execution Tool.
3. Desktop Researchers may reference *the SAV Execution Tool User Guide* for additional guidance on data entry.



4. Take a screen shot of the map on the website and save the screenshot to the application folder of the SharePoint site.

3—BroadbandNow.com

1. Navigate to <https://broadbandnow.com>
2. Input the zip code for the desired region in the zip code search field on the home page. In this example, add 59935 as the zip code for Troy, Montana.

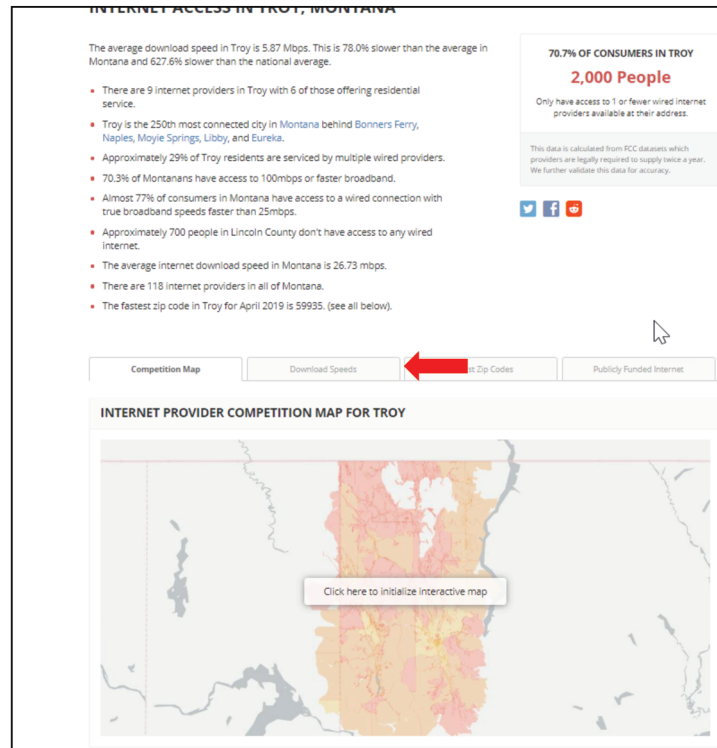
Figure 11: Search by Zip Code



3. Scroll down to the bottom of the page to observe maps, internet speeds by internet service provider, and a summary of internet statistics for the region.
 - a. Click the "Download Speeds" tab located above the "Interactive Competition Map."



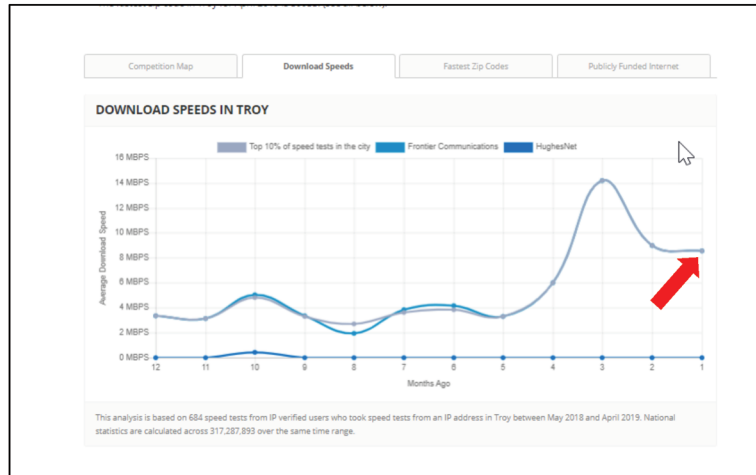
Figure 12: Locate Download Speed Details



- b. Observe the graph and statistics. Record the most recent average download speed in the SAV Execution Tool.



Figure 13: Most Recent Download Speeds



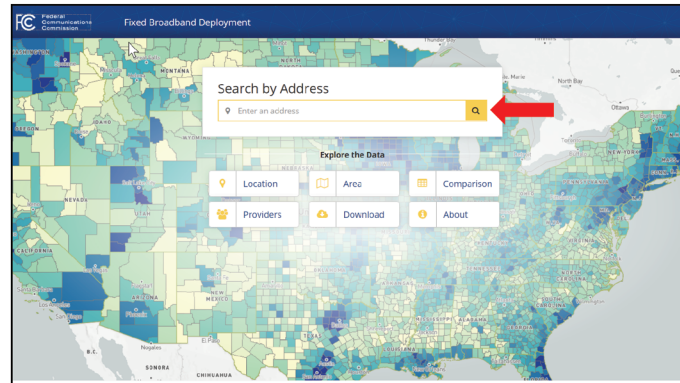
4. Document the service providers found on the website to identify contacts for Field Research activities.
5. Desktop Researchers may reference *the SAV Execution Tool User Guide* for additional guidance on data entry.
6. Take a screen shot of the results and charts, then save them in the application folder of the SharePoint site.

4—FCC Form 477

1. Navigate to the Federal Communications Commission (FCC.gov) website:
 - a. <https://broadbandmap.fcc.gov/#/>
 - b. *Note: Internet Explorer may work best for the necessary functionality*
2. Search for the PFSA location as shown in **Figure 14**.



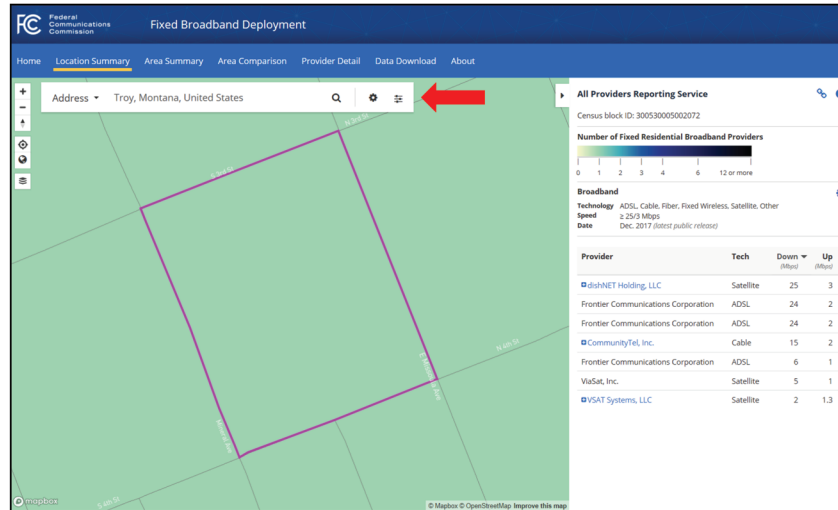
Figure 14: Search by Address



3. After the search is complete, the speeds are generated in the Location Summary tab shown in **Figure 15: Location Summary**. In this section, users can see additional information, including the broadband providers, Technology type, and comparison of their speeds. Users can also filter for download and upload speeds by selecting the gear icon shown below.



Figure 15: Location Summary



4. Filter for the 10/1 Mbps speeds in the area as seen in **Figure 16**.



Figure 16: Filter by Speed

Application Settings

Data version

Dec. 2017 (latest)

Broadband

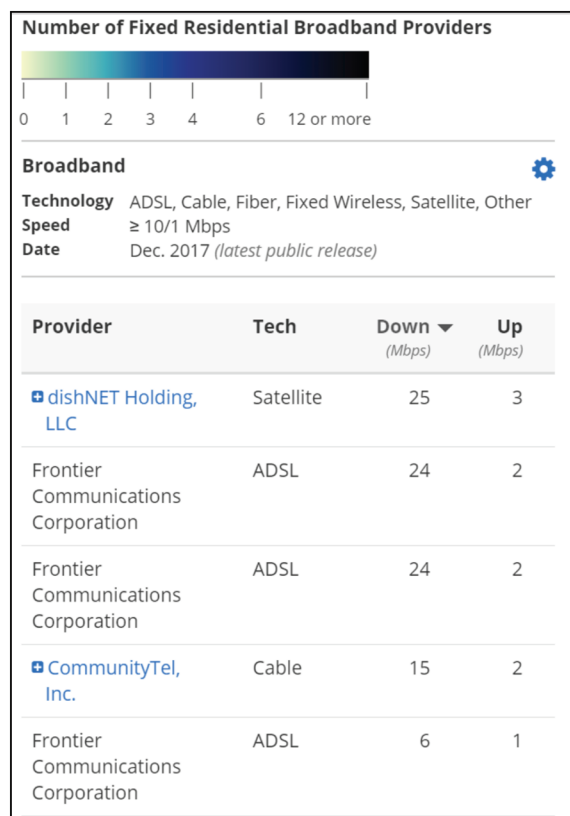
Technologies	Speed (Mbps)
<input checked="" type="checkbox"/> ADSL	<input type="radio"/> ≥ 0.2/0.2
<input checked="" type="checkbox"/> Cable	<input type="radio"/> ≥ 4/1
<input checked="" type="checkbox"/> Fiber	<input checked="" type="radio"/> ≥ 10/1
<input checked="" type="checkbox"/> Fixed Wireless	<input type="radio"/> ≥ 25/3
<input type="checkbox"/> Satellite	<input type="radio"/> ≥ 100/10
<input checked="" type="checkbox"/> Other	<input type="radio"/> ≥ 250/25
	<input type="radio"/> ≥ 1000/100

Close

- Observe the download speed and upload speed in the “Download/Upload” fields as shown in **Figure 17** and record the findings by service provider in the appropriate user form in the *SAV Execution Tool*.



Figure 17: FCC Form 477 Service Provider Results



6. Desktop Researchers may reference *the SAV Execution Tool User Guide* for additional guidance on data entry.
7. Take screenshots of findings and save in the appropriate application folder on SharePoint.

5—i3 Connectivity Explorer

1. Creating your i3 Connectivity Explorer Account.



- a. Navigate to <https://i3cex.internet-is-infrastructure.org/sessions/new>
2. Create a new user account by clicking the “New account” button.

Figure 18: Create your i3 Connectivity Account

The i3 Connectivity Explorer is the broadband visualization tool for anyone who knows that her or his broadband options are limited and wants to improve their situation. [Read more about it](#), [view an introductory video](#), or [request an account](#) and get started!

- a. Provide the appropriate information to create a new username.
- b. A confirmation is sent to the new user's email. Follow the instructions provided in the email to gain access to the new account.
- c. Enter username and password to log in and access the site.

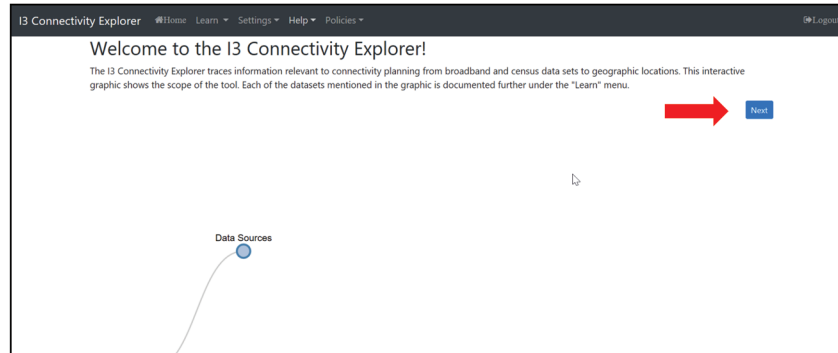
Figure 19: i3 Login Prompt

The i3 Connectivity Explorer is the broadband visualization tool for anyone who knows that her or his broadband options are limited and wants to improve their situation. [Read more about it](#), [view an introductory video](#), or [request an account](#) and get started!

3. Click the blue “Next” button located on the right side of the screen shown in **Figure 20**.



Figure 20: Navigating the Site



4. Provide a title and description of the notebook, preferably denotative of the location of the PFSA and associated application.

Figure 21: Create New Workbook

 A screenshot of the "Create a New Notebook" form. It has a title field with "Troy, Montana" entered and a description field with "Notebook examining the broadband connectivity coverage of Troy, Montana" entered. At the bottom are "Cancel" and "Create" buttons.

5. On the next page, click the "Add" button located on the bottom right-hand section of the screen to add the appropriate geographic locality.



Figure 22: Populate PFSA Details

I3 Connectivity Explorer #Home Learn Settings Help Policies Log out

Notebook created successfully.

Notebook title: Troy, Montana

Description: Notebook examining the broadband connectivity coverage of Troy, Montana

You can provide your own target download and upload speeds for this notebook. The economic boost is the anticipated additional economic benefit (per household), for this community, from having and using a broadband connection in the home.

Target download: 25.0 Mbps Target upload: 3.0 Mbps Economic boost: \$ 1,850 Target subscription level: 97.0 %

You need to add one or more localities to this notebook before you can use it.

Name: [Input field]

[Add]

[Back] [Activate Notebook]

- On the next page, click the two drop down menus to specify the appropriate state and type of locality.

Figure 23: Select Locality Type for Observation

I3 Connectivity Explorer #Home Learn Settings Help Policies

New Locality

Find a [State] in Montana

Search [County]

[Search]

- In the “Search string” box, above the blue “Search” button, provide information pertaining to the appropriate locality. In the present example, provide the county in which the PFSA is located (Lincoln County).
- Once the Locality Type, State, and Search string have been specified, click the blue “Search” button below to search for the desired locality in that state: in this example, Montana.



Figure 24: Populate PFSA Details

 The image shows the "New Locality" form in the i3 Connectivity Explorer. It has a header bar with "i3 Connectivity Explorer" and navigation links. The form contains a "Find a County" dropdown set to "Montana", a "Search string" input field containing "Lincoln", and a "Search" button. A red arrow points to the "Search" button.

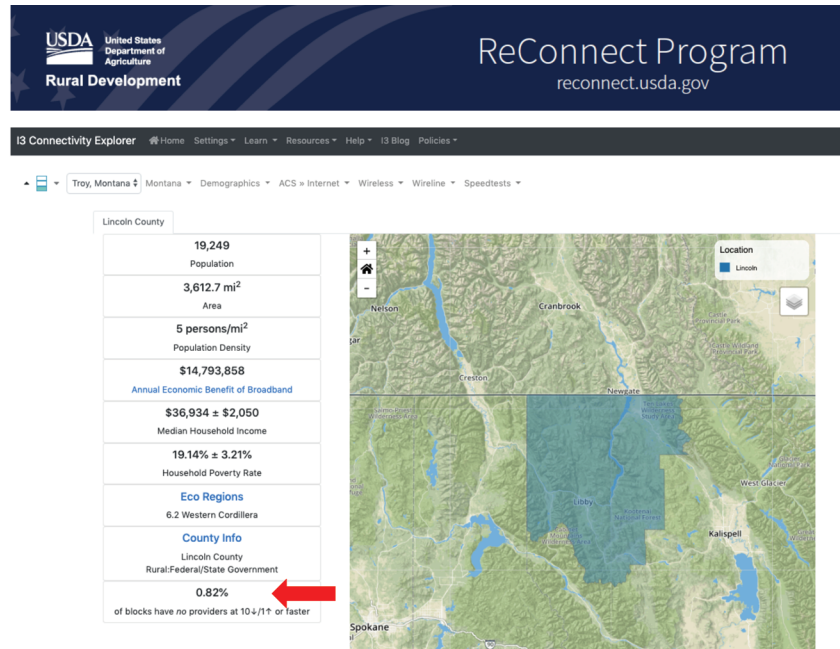
9. On the main Notebook page, a notebook of the selected state (e.g. Lincoln County, Montana) should have generated. Users can toggle between broadband speeds, to identify which areas of this region have a given connectivity range. Users may also examine other features such as "Economic Boost" and "Target Subscription" level, but for this exercise the key feature is Download and Upload speeds. Specify the Target download speed to be "10" Mbps and the Target upload speed to be "1" Mbps in the appropriate boxes, then click the blue "Activate Notebook" button to see the results.

Figure 25: Filter for Target Upload and Download Speeds

 The image shows the "Notebook" page in the i3 Connectivity Explorer. It has a header bar with "i3 Connectivity Explorer" and navigation links. The page contains a "Notebook title" field with "Troy, Montana", a "Description" field with "Notebook examining the broadband connectivity coverage of Troy, Montana", and a "Localities in This Notebook" section with "Lincoln County". Below this is the "Target Broadband Speed" section with "Target download" set to "10.0" and "Target upload" set to "1.0". A red arrow points to the "Target upload" field. Below this is the "Economic Boost Factor" section with "Economic boost" set to "1,850" and "Envisioned household subscription rate" set to "97.0". At the bottom is the "Well-Served Blocks" section with a "Providers" field set to "3". A red arrow points to the "Activate Notebook" button at the bottom left.

10. The following map generated provides summary statistics on the region including Coverage Assessment denoted by the red arrow below.

Figure 26: i3 Connectivity Search Output



11. Enter the download and upload speeds, the Coverage Estimate (in this case 100% - 0.82% = 99.18%) and document the URL for the web pages observed in the SAV Execution Tool. Note that the Coverage Estimate only indicates the percentage of blocks that have no providers at 10/1 Mbps service or greater. Subtract this percentage from 100% to determine the percentage of blocks with one or more providers at 10/1 Mbps service or greater.
12. Desktop Researchers may reference *the SAV Execution Tool User Guide* for additional guidance on data entry.
13. Take a screen shot of the map on the website and save the screenshot to the application folder of the SharePoint site.

3.1.5 Identify Competitor Service Providers

Desktop Researchers review the competitor service providers as documented in an application. If there are any competitive service offerings, the Desktop Researcher assigned to the PFSA notes the information in **Table 13** below in the SAV Execution Tool. Once an incumbent service provider is identified, as long as they did not also submit a PNR, the Desktop Researcher contacts the company to determine if there is an individual that the Field Researchers can interview on the ground. The Desktop Researcher enters service provider information in the *SAV Execution Tool* for any other competitors identified throughout the Desktop Research process as well, specifically through the third party speed test data collection.



Table 13 lists data fields populated for each competitive service provider identified by the applicant or through Desktop Research activities.

Table 13: Competitor Service Provider Data Fields

Field	Observation Description
Entity	[Insert]
PNR Respondent?	["Yes" or "No"]
PFSAs Name	[As provided on the Application]
Customer Type	[Insert]
Service Offering	[As provided on the Application]
Download Speed (Mbps)	[Insert]
Upload Speed (Mbps)	[Insert]
Unit Price	[Insert]
Description/Notes	[Insert]
Data/Information Source	["Application" OR "Name of Speed Test Data Provider"]

3.2 Archive Source Documentation and Materials to SharePoint

Archive all supporting documentation and materials to the SAV Document Library. This step should be concurrent with the desktop research findings data entry into the *SAV Execution Tool* and subsequent to the initiation of Desktop Research. Note if the source document is web-based and include a link to the website on a word document stored in SharePoint. All other electronic files are stored and named descriptively in the application-specific folder. If the materials are specific to one of multiple PFSAs associated with the application, create sub-directories named according to the PFSA. The logging of source documentation and materials to SharePoint occurs immediately after the source is used to support a finding recorded in the SAV Document Library.

3.3 Archive Desktop Findings to SAV Execution Tool

The Desktop Research Team concurrently logs documents and materials into the SAV Document Library on SharePoint and populates the SAV Execution Tool for the application. The Desktop Research findings and data points are listed in **Table 11** through **Table 13**. The Desktop Research Team completes the following steps:

1. Open the *SAV Execution Tool* MS Excel Workbook.
2. Depending on the data being added to the *SAV Execution Tool*, select the appropriate button to launch the user form.



3. Populate the required application and PFSA-specific fields with information pulled from the application under review. Data observed from sources other than the application are also populated in the *SAV Execution Tool*.
4. Select the save button on each user form to archive the finding.

Backend Operation

By selecting the “Save” button on the user forms, the data captured in the user form will be written to a log in the *SAV Execution Tool*. When generating reports, the log will be queried to pull all desktop research findings into the *Desktop Research Report Template*.

The data entry described under this step should be completed as information is discovered.

3.4 Update SAV Checklist

After the preliminary Desktop Research is complete, the Desktop Research Team updates the *SAV Checklist* to confirm that for a given application, the findings are logged in the *SAV Execution Tool* and the supporting documentation and materials are archived in the SAV Document Library.

3.4.1 Decision Point—Desktop Research Complete?

After the *SAV Checklist* is updated, the primary Desktop Researcher reviews the *SAV Execution Tool*, SAV Document Library, and *SAV Checklist* for completion. If there are missing items or data entry errors, the Desktop Researcher coordinates with the Desktop Research Team to update the information in SharePoint and the *SAV Execution Tool* by adhering to the procedures from step 3.1. Once the *SAV Execution Tool* and Document Library are sufficiently complete, proceed to step 3.5.

3.5 Prepare and Export Desktop Research Report

Once the Desktop Research completeness check is completed, the Desktop Research Team collaboratively reviews and concurs that the *SAV Execution Tool* accurately reflects the data observed during Desktop Research and is consistent with the source documentation and materials archived on SharePoint.

Once concurrence is achieved by the Desktop Research Team and any conflicts have been resolved by the Broadband SME, the Desktop Research Team initiates production of the *Desktop Research Report*. To do so, one member of the Desktop Research Team executes the “Generate Desktop Research Report” subroutine in the *SAV Execution Tool* by selecting the “Generate Report” button. Once the report is prepared, the Desktop Research Team reviews the draft against the log in the *SAV Execution Tool* to confirm the data pull was successful.

Backend Operation

By changing the “Generate Report”, a VBA-enabled subroutine is triggered to pull the data from the log into the Desktop Research Report template. The populated template should be saved in the application-specific document library for record keeping and review.



3.6 Review Desktop Research Report

Once the draft *Desktop Research Report* is generated and the Desktop Research Team has notified the Desktop Advisor that the *SAV Execution Tool* is saved on SharePoint, the Desktop Advisor reviews the report for completeness and ensures the findings in the report satisfy the Desktop Research requirements.

3.6.1 Decision Point—Desktop Research Sufficiently Complete?

If the Desktop Advisor finds there is a material deficiency in the *SAV Execution Tool*, the Desktop Advisor engages the Broadband SME as described under step 3.6.2. For example, a summary statement of findings that does not clearly state the eligibility of a PFSA as suggested by third party data providers. The Desktop Advisor is responsible for routing the *SAV Execution Tool* to the Broadband SME and highlighting the areas of the report that require the Broadband SME's attention. If there are no material deficiencies in the *SAV Execution Tool* proceed to step 3.7.

3.6.2 Resolve Desktop Research Issues

Upon receipt of an initial *Desktop Research Report* that requires SME intervention, the Broadband SME reviews the fields in the report identified by the Desktop Advisor and adjusts the findings as necessary. The Broadband SME may engage the Desktop Research Team directly for further clarification or to request specific edits to the *SAV Execution Tool*.

3.6.3 Update Desktop Research Report and SAV Execution Tool

If the Broadband SME determines adjustments to the *SAV Execution Tool* are required, the Desktop Research Team updates the *SAV Execution Tool* according to the instructions issued by the Broadband SME.

3.7 Archive Desktop Research Report and Route to Regional Lead

Concurrent with the updates made to the SAV Status Tracker, the Desktop Advisor ensures that the *SAV Execution Tool* and *Desktop Research Report* are saved in the appropriate folder in the SAV Document Library on SharePoint. The Desktop Advisor updates the *SAV Checklist* then routes the *SAV Execution Tool*, *Desktop Research Report*, and *SAV Checklist* as an attachment to the Regional Lead and SAV Review Lead. This step is completed promptly after the completeness check described in step 3.6.1 is executed.

3.8 Update SAV Status Tracker

Once the *Desktop Research Report* and *SAV Execution Tool* are sufficiently reviewed by the Desktop Advisor (and Broadband SME as needed), the Desktop Advisor sends notice via email to the SAV Coordinator to update the SAV Status Tracker for the appropriate application record on SharePoint.



4.0 Field Research

This procedure begins with the review of the desktop findings summary per PFSA developed in procedure **3.0, Desktop Research** and culminates with the production of the final *Field Research Report*.

Field Research and Data Aggregation Procedure

4.1 Review Desktop Research Findings Report

The Desktop Advisor routes the *Desktop Research Report* as described in step **3.7** to the Regional Lead assigned to the application. The Regional Team reviews the *Desktop Research Report* received from the Regional Lead for each PFSA (as represented by **Table 14**) and identifies any sections/data included in the report that may be materially deficient.

Table 14: PFSA Summary Information

Field	Observation
PFSA Name	[As provided on the Application]
New or Existing PFSA	[“New” or “Existing” as provided on the Application]
Alternative Household Data Provided?	[“Yes” or “No”]
Geographic Footprint	[Square miles from the map metadata]
Number of Households	[As provided from the map metadata]
Technology Type	[As provided on the Application]
Service Offering	[As identified by Desktop Research]
Desktop Research Eligibility Finding	[“Eligible” or “Ineligible”]

4.1.1 Decision Point – Questions about report?

If the Regional Team has any questions about the content of the report, send comments via email to the Desktop Advisor, copying the Regional Lead. If there are no questions from the Regional Team during review of the desktop findings, the Regional Team proceeds to step **4.2**.

4.1.2 Clarify Desktop Findings

The Desktop Advisor responds via email to the Regional Team with any clarifying questions necessary. The Desktop Advisor may solicit the help of the Desktop Research Team to answer the Regional Teams questions. If a follow-up phone conversation is needed to clarify answers provided to the Regional Team, the call should be documented including formal meeting minutes. Archive the resulting documentation in the SAV Document Library on SharePoint. The Regional Lead should be included on the phone call as an optional attendee.



4.2 Initiate Validation of Desktop Findings

After the *Desktop Research Report* is reviewed by the Regional Team and any clarifications are made, the Regional Team initiates validation of the findings from the Desktop Research. For example, if a service provider or local stakeholder was found in the PFSA during desktop research and an interviewee was identified, the Regional Team schedules and conducts the interview as detailed in step 4.4. The information in **Table 14** is validated by the Regional Team throughout the steps detailed throughout the rest of this procedure.

4.2.1 Decision Point – PNR(s) for Application?

After the initiation of desktop findings, the Regional Team documents any PNRs associated with the PFSA undergoing validation, if applicable. If any PNRs associated with the PFSA are documented, the Regional Team moves to step 4.3, prioritizing the interviews of PNR respondents. However, once the PNR respondent interviews are complete, the Regional Team continues with step 4.4. If there are no PNRs associated with the PFSA, the Regional Team proceeds to step 4.4.

4.3 Conduct PNR Respondent Interviews

For each PNR submitted, the Regional Team conducts PNR Respondent Interviews. The questions on the PNR Respondent Questionnaire (**Table 15**) are asked and data collected in the SAV Execution Tool for the appropriate application and PFSA being validated. The Regional Team asks the PNR Respondent to identify any additional information which may not have been submitted online in the PNR. Consistent with FCC processes to validate speed in wireline networks, the SAV Review Team requests and examines datasets from the public notice response service provider including data generated by certain network elements or Network Management Systems (NMSs). The request should include data during peak and non-peak network load timeframes. In the event no service provider has responded to the application's PNF, the Regional Team submits similar requests to any service providers found to be operating in the PFSA by the Desktop Research Team. The Regional Team understands its requests may not be responded to by the service providers (if any were identified within the PFSA). The Regional Team repeats this step for the number of incumbents that submitted a PNR for each PFSA under review. As described in the Desktop Research process, step 3.0, PNR Respondents are contacted no more than three times and non-PNR respondents are contacted no more than two times.

At the time a PNR respondent submits their response, the PNR respondent is not required to submit the information as detailed in **Table 15**. Therefore, the questions below are only asked if they were not answered previously in submission of the PNR.

Table 15: PNR Respondent Questionnaire

Question	Observation
Type of Interviewee	[Insert]
Name of Interviewee	[Insert]



Question	Observation
Interviewee Contact Information	[Insert]
Date of Interview	[MM/DD/YYYY]
Local Time of Interview (Start)	[Insert]
Local Time of Interview (End)	[Insert]
Location of Interview	[Insert town, county, state, location, address]
Name of Regional Team Member(s) Conducting Interview	[Insert]
Relative PFSA Name	[Insert as provided on application]
Funding Type of Application	[Insert as provided on application]
Common Name of Applicant	[Insert as provided on application]
How many residential customers within the applicant's service area are currently purchasing broadband service, defined as at a minimum speed of 10 Mbps downstream and 1 Mbps upstream?	[Insert number]
What are the locations of those residential customers within the applicant's service area are currently purchasing broadband service, defined as at a minimum speed of 10 Mbps downstream and 1 Mbps upstream?	[Insert locations]
Where are the rates of data transmission being offered?	[Insert number]
Who is the service provider?	[Insert name of service provider]
What are the service(s)?	[Insert services]
What are the service packages?	[Insert service packages]
Can you provide data generated by Network Management Systems (NMSs)?	[Yes/No]
If yes, please provide data during peak network load timeframes.	[Insert speed data at peak timeframes]
If yes, please provide data during non-peak network load timeframes.	[Insert speed data at non-peak timeframes]
Please provide network generated speed data from at least one of the following: - Customer Premise Equipment (CPE) - Network Management Systems (NMS) - Self developed ping-based speed data	[Insert applicable speed data]



4.3.1 Decision Point – Discrepancies from Submitted PNR?

Once the PNR Respondent interviews are completed, the Regional Team must inform the Regional Lead following the interview if there are any discrepancies with the information from the submitted PNR and data collected during the PNR evaluation process. Both Regional Team members are required to cross-reference the PNR submitted data with the data collected during the interview of the PNR respondent. If there are discrepancies, the procedure continues to step **4.3.2**. Alternatively, if no discrepancies exist, the process continues to step **4.4**.

4.3.2 Research PNR Discrepancies

In the event the Regional Team identifies any discrepancies between claims made in the PNR and information collected during the PNR interview, the Regional Team escalates the observation to the Regional Lead via email detailing what discrepancies were identified. The Regional Lead then reviews the discrepancies. If there is a need for the Regional Lead to have a phone call with the Regional Team and the PNR respondent, the Regional Team must record formal meeting minutes and archive them in the SAV Document Library on SharePoint. If the Regional Lead does not resolve identified discrepancies following the discussion with the PNR respondent, they ask the Broadband SME for adjudication.

4.3.3 Render Opinion of Discrepancies

Once the Broadband SME receives notification from the Regional Lead, the Broadband SME renders an opinion if there needs to be another discussion with the POC of the PNR Respondent. Should there be any discrepancies, such as inconclusive information from interviewees in the field, the Broadband SME advises if the field Team should conduct additional in-field interview questions of the PNR respondent.

4.4 Conduct Field Interviews, Collect Information From Other Public Data Sources, and Conduct Network Observations

The following procedures within this step can be executed at any time while the Regional Team is in the field validating a PFSA. It is the responsibility of the Regional Team to gather as much quantifiable information while validating a PFSA as possible. As detailed in step **1.0**, the Regional Team validates PFSA in a specific sequence to maximize efficiencies during the validation of multiple PFSA within an application.



Conduct Field Interviews

If the Regional Team does not identify any PNRs associated with the PFSA being validated, the Regional Team conducts interviews with service provider technicians, government officials, representatives of community anchor institutions and subscribers (residents) of the service providers within the PFSA. Note, government officials and anchor institutions can be interviewed, however, service delivered to them does not count towards eligibility determinations. Therefore, the Regional Team documents this notation for any of the relative parties interviewed. For technical personnel, the focus of the interviews is on gaining a detailed understanding of the technologies providing broadband service and the infrastructure supporting broadband service. For subscribers, the focus is on understanding the user perceived speed of the network.

Types of interviews:

- General Interview (e.g. resident/subscriber, applicant employee, business owner, local official, etc.) – **Table 16**
- Digital Subscriber Line Technician Interview – **Table 17**
- Cable Modem Termination Systems (CMTS) Technician Interview – **Table 18**
- Fixed Wireless Technician Interview – **Table 19**
- Fiber to the Premises Technician Interview – **Table 21**

The Regional Team gathers data from these interviews in the *SAV Execution Tool* for each PFSA being validated. The Regional Team attempts to conduct the different types of interviews in every visited PFSA. However, the Regional Team acknowledges and documents if they are unable to conduct an interview in the PFSA and the reasoning why the interview was not conducted. The time to complete each interview depends on how quickly the Regional Team is able to collect a sufficient amount of data.

In the event a scheduled interviewee does not show up for a scheduled interview, the Regional Team should attempt to contact the interviewee to confirm the interview is either postponed or cancelled. The Regional Team then documents the communication on the appropriate questionnaire.

Table 16: General Questionnaire

General Questionnaire	
Question	Purpose/Reasoning
Who is your internet provider?	To determine if there are other ISPs that we have not identified and to establish linkage between ISPs and household network performance.
Are there alternate providers?	To determine if there are other Service Providers that we have not identified
Do you know what technology they use?	To corroborate our understanding of what technology the Service Provider has deployed



General Questionnaire	
What is your overall perception of internet speed?	To gain an understanding of the performance of the network
What is your overall perception of internet availability?	To gain an understanding of the reliability of the network
Are you able to stream the following without buffering? <ul style="list-style-type: none"> • Netflix movies in SD • Facebook videos • YouTube videos 	To determine if sufficient speeds exist to execute certain well understood applications
Are you able to send and receive e-mail attachments?	Service Providers typically configure their Simple Mail Transfer Protocol mail servers to timeout. Frequent mail timeouts may indicate insufficient bandwidth
Which is faster, your mobile internet or your home internet?	Which is faster, your mobile internet or your home internet?

Table 17: Digital Subscriber Line Technician Questionnaire

Digital Subscriber Line Technician Questionnaire	
Question	Purpose/Reasoning
What type of DSL, Asymmetric Digital Subscriber Line (ADSL), Very High Speed Digital Subscriber Lines (VDSL), etc.)?	Different flavors of DSL have different attenuation characteristics
Is your flavor consistent throughout the network?	To gain an understanding of whether multiple different speeds may be experienced by users depending on location
When was the network deployed?	Hardware and software versions ultimately determine speed. The age of the infrastructure helps gain an understanding of what hardware and software is deployed.
Have any enhancements or modifications to the network been made since the initial deployment?	Hardware and software versions ultimately determine speed. The age of the infrastructure helps gain an understanding of what hardware and software is deployed.
How many Digital Subscriber Line Access Multiplexer (DSLAM) do you have in the PFSA?	To help understand the distances from households to infrastructure
How many DSLAMs do you have in the PFSA?	To understand the infrastructure is in place within the PFSA.
Where are those DSLAMs located?	To understand where the infrastructure is located within the PFSA.



Digital Subscriber Line Technician Questionnaire	
Can you show them to me? (take pictures and note location)	To understand what infrastructure is in place and where it is physically located.
What vendor and model number are your DSLAMs?	To understand the technical capacities of the infrastructure
What software version are your DSLAMs using?	Certain software versions have speed limitations.
What is the backplane capacity of the DSLAMs?	To understand the capacity of the infrastructure.
How do the DSLAMs get muxed to the Central Office (CO)?	To determine how the network provides service
Are the field DSLAMs connected through fiber?	Fiber based distribution networks are faster than Plain Old Telephone Service (POTS) lines. May indicate a network with greater capacity than a pure POTS
What is the capacity of your transport facilities in place from your consolidation location?	To determine if transport facilities have appropriate bandwidth to provide service
Where is your interconnect location (if any)?	To determine distance for interconnect
What is the furthest household from its nearest DSLAM?	To determine maximum attenuation of households
Can you provide CPE generated evidence of household speed?	To determine network speed.
Can you provide NMS generated evidence of household speed?	To determine network speed.
Can you provide network generated evidence of household speed?	To determine network speed.
What is the maximum download speed your network can deliver?	To find out if the Service Provider is capable of providing 10/1 service or not
What is the maximum upload speed your network can deliver?	To find out if the Service Provider is capable of providing 10/1 service or not

Table 18: Cable Modem Termination Systems Technician Questionnaire

Cable Modem Termination Systems (CMTS) Technician Questionnaire	
Question	Purpose/Reasoning
How many headends do you have?	The number of headends deployed in the network partially determines available capacity to users.
How many subscribers does the network support?	Since cable is a shared medium the number of subscribers creating traffic on the network directly affects network speeds experienced by users.



Cable Modem Termination Systems (CMTS) Technician Questionnaire	
Where are those headends located?	To validate that infrastructure is located within proximity to the markets served.
Can you show them to me? (pictures)	To validate the information provided is accurate regarding infrastructure deployed.
Is your solution pure cable or Hybrid Fiber Coax (HFC)?	Fiber is a faster medium than cable plant and may indicate additional capacity in the network.
What is the backplane capacity of your aggregation router?	To determine whether infrastructure has capacity sufficient to serve the service area.
What software version is your aggregation router using?	Software versions may have Original Equipment Manufacturer (OEM) published speed limitations.
What Data Over Cable Service Interface Specification (DOCSIS) version is in your CMTS?	Certain DOCSIS versions have published standards for speed.
What is the capacity of your transport facilities in place from your consolidation location?	To determine if transport facilities have appropriate bandwidth to provide service
Where is your interconnect location? (if any)	To understand the distance traffic is required to travel before hitting the measurement point of demarcation.
Is all CPE in the network on the same DOCSIS version?	The network can only operate at speeds consistent with the lowest DOCSIS version deployed in the network.
What versions of DOCSIS are in CPE in the network?	To determine the lowest version of DOCSIS presently in the network.
Can you provide CPE generated evidence of household speed?	To determine network speed.
What is the maximum download speed your network can deliver?	To find out if the Service Provider is capable of providing 10/1 service or not
What is the maximum upload speed your network can deliver?	To find out if the Service Provider is capable of providing 10/1 service or not

Table 19: Fixed Wireless Technician Questionnaire

Fixed Wireless Technician Questionnaire	
Question	Purpose/Reasoning
How many sites do you have?	To determine overall Radio Frequency (RF) coverage footprint.
Where are your sites located?	To determine overall RF coverage footprint.
How many subscribers does your network support?	The number of subscribers on a network determine the load on the network.



Fixed Wireless Technician Questionnaire	
What model and version of CPE do you use?	Assists in determining difficulty of receiving signal at households.
Do you operate in licensed spectrum?	If an operator uses licensed spectrum than we should have the ability to find
What is your total transmit bandwidth?	Required to calculate theoretical capacity
What is your total receipt bandwidth?	Required to calculate theoretical capacity
What power do you transmit at?	Necessary information for coverage calculations.
What modulation scheme do you use? <i>*(See MCS Translation Table below for Reference)</i>	Necessary input for theoretical speed calculations.
How high are your antennas?	Necessary for coverage calculations.
What is your RF footprint (test line of sight)?	Assist in determining the number of households in a PFSA that are within coverage.
Do you have a receiver we could test in the field?	To validate information on household signal strength.
How do you backhaul traffic?	Assists in determining if sufficient backhaul capacity exists to enable service.
What is the capacity of your backhaul link(s)?	Assists in determining if sufficient backhaul capacity exists to enable service.
Where are the backhaul links muxed (if more than one site)?	Assists in determining if sufficient backhaul capacity exists to enable service.
What is the capacity of you transport facilities in place from your consolidation location?	To determine if transport facilities have appropriate bandwidth to provide service
Where is your interconnect location (if any)?	To determine distance for interconnect
Can you provide CPE generated evidence of household speed?	To determine network speed.
What is the maximum download speed your network can deliver?	To find out if the Service Provider is capable of providing 10/1 service or not
What is the maximum upload speed your network can deliver?	To find out if the Service Provider is capable of providing 10/1 service or not

During a Fixed Wireless technician interview, a Field Researcher asks about the modulation for the network. Should a Field Researcher encounter Modulation and Coding Scheme (MCS) Index Values while researching Fixed Wireless service, the table below can be used to translate the MCS Index Value to the corresponding Modulation Scheme for which they input into the SAV Execution Tool. During the Fixed Wireless interview with the technician, the Field Researcher



clarifies that they need the modulation scheme to be able to calculate the theoretical speed calculation shown in section 4.6.

Table 20: Translation from MCS to Modulation Scheme

MCS Index	Spatial Streams	Modulation Type	Coding Rate	Data Rate (Mbit/s)			
				20 MHz Channel		40 MHz Channel	
				800 ns GI	400 ns GI	800 ns GI	400 ns GI
0	1	BPSK	1/2	6.50	7.20	13.50	15.00
1	1	QPSK	1/2	13.00	14.40	27.00	30.00
2	1	QPSK	3/4	19.50	21.70	40.50	45.00
3	1	16-QAM	1/2	26.00	28.90	54.00	60.00
4	1	16-QAM	3/4	39.00	43.30	81.00	90.00
5	1	64-QAM	2/3	52.00	57.80	108.00	120.00
6	1	64-QAM	3/4	58.50	65.00	121.50	135.00
7	1	64-QAM	5/6	65.00	72.20	135.00	150.00
8	2	BPSK	1/2	13.00	14.40	27.00	30.00
9	2	QPSK	1/2	26.00	28.90	54.00	60.00
10	2	QPSK	3/4	39.00	43.30	81.00	90.00
11	2	16-QAM	1/2	52.00	57.80	108.00	120.00
12	2	16-QAM	3/4	78.00	86.70	162.00	180.00
13	2	64-QAM	2/3	104.00	115.60	216.00	240.00
14	2	64-QAM	3/4	117.00	130.00	243.00	270.00
15	2	64-QAM	5/6	130.00	144.40	270.00	300.00
16	3	BPSK	1/2	19.50	21.70	40.50	45.00
17	3	QPSK	1/2	39.00	43.30	81.00	90.00
18	3	QPSK	3/4	58.50	65.00	121.50	135.00
19	3	16-QAM	1/2	78.00	86.70	162.00	180.00
20	3	16-QAM	3/4	117.00	130.00	243.00	270.00
21	3	64-QAM	2/3	156.00	173.30	324.00	360.00
22	3	64-QAM	3/4	175.50	195.00	364.50	405.00
23	3	64-QAM	5/6	195.00	216.70	405.00	450.00
24	4	BPSK	1/2	26.00	28.80	54.00	60.00
25	4	QPSK	1/2	52.00	57.60	108.00	120.00
26	4	QPSK	3/4	78.00	86.80	162.00	180.00
27	4	16-QAM	1/2	104.00	115.60	216.00	240.00
28	4	16-QAM	3/4	156.00	173.20	324.00	360.00
29	4	64-QAM	2/3	208.00	231.20	432.00	480.00
30	4	64-QAM	3/4	234.00	260.00	486.00	540.00
31	4	64-QAM	5/6	260.00	288.80	540.00	600.00

**Table 21: Fiber to the Premises Technician Questionnaire**

Fiber to the Premises Technician Questionnaire	
Question	Purpose/Reasoning
Is the network passive or active?	Active networks have more routing equipment thus creating more potential choke points
How many subscribers does your network support?	The number of subscribers on a network determine the load on the network.
Where is the traffic muxed?	Multiplexing almost always introduces latency and may be a good place to check speed.
What is the backplane capacity of your aggregation router?	To understand the capacity of the infrastructure.
What is the maximum download speed your network can deliver?	To find out if the Service Provider is capable of providing 10/1 service or not
What is the maximum upload speed your network can deliver?	To find out if the Service Provider is capable of providing 10/1 service or not
What is the capacity of your transport facilities in place from your consolidation location?	To determine if transport facilities have appropriate bandwidth to provide service

Collect Information From Other Public Data Sources

While the Regional Team is deployed in a PFSA, the Regional Team observes and documents any sources of public data that help to determine whether or not broadband exists in the PFSA. Examples of public data sources the Regional Team should look for while traveling include, but are not limited to:

- Newspaper ads
- Magazine articles
- Billboards for advertised speeds of local service providers
- Unsolicited CPE speed data provided by one or multiple subscriber(s) located within the PFSA undergoing validation
- Signs on/in businesses

The Regional Team documents any findings during the site visit on the Public Data Source Collection Form shown in **Table 22** and includes pictures for evidence findings.



Table 22: Public Data Source Collection Form

Question	Observation
Type of public data source	[Newspaper ad, magazine article, billboard, unsolicited CPE speed data, signs, etc.] Insert pictures of public data source below
Information provided by public data source	[Insert description]
Date of information found	[MM/DD/YYYY]
Local time of information found	[Insert]
Location where information was found	[Insert town, county, state, location, address]
Name of Regional Team member(s) responsible for finding data source	[Insert]
Relative PFSA Name	[Insert as provided on application]
Funding Type of Application	[Insert as provided on application]
Common Name of Applicant	[Insert as provided on application]

Conduct Network Observations

While the Regional Team is deployed and validating PFSAs, the Regional Team conducts physical network observations of the infrastructure within the PFSAs that are being validated. PFSAs are known to range in size, however, network observations are documented from every PFSA a Regional Team visits. In addition, two Field Researchers on the Team may collect observations and document them with pictures and details supporting their findings. For example, if one PFSA is small and covers an entire town, it is expected that the Regional Team observes the PFSA in its entirety. If the Team does not locate network infrastructure within the PFSA for any reason (i.e. vegetation overgrowth), the Team still documents the work the Team conducted by taking a picture within the PFSA noting “No network infrastructure observed within PFSA”. The Team documents “N/A” for the data fields identified in the Network Observation Documentation Form in **Table 23**.

A large PFSA could require a team of two Field Researchers that are not expected to cover every square mile of the PFSA. In these instances, the Regional Team prioritizes conducting observations in the more populous areas of the PFSA. The observations for these areas are also documented in the Network Observation Data Collection Template.

Network observations are done at any time while the Regional Team is deployed in the PFSA (e.g. on the way from an interview to a hotel). The Regional Team must attempt to conduct network observations at least one time while validating a PFSA.



Table 23: Network Observation Documentation Form

Question	Observation
Type of network infrastructure observed	[Insert type of infrastructure]
List the Service Provider who owns the observed network infrastructure (if identifiable)	[Insert SP name; state how the owner was identified]
Physical condition of network infrastructure	[Good/Fair/Poor] Insert supporting pictures below
Why was the network infrastructure rated, Good, Fair, or Poor?	[Insert description]
Date of observation made	[MM/DD/YYYY]
Local time of observation made	[Insert]
Location where information was found	[Insert town, county, state, location, address]
Name of Regional Team member(s) who conducted the observation	[Insert]
Relative PFSA Name	[Insert as provided on application]
Funding Type of Application	[Insert as provided on application]
Common Name of Applicant	[Insert as provided on application]

4.5 Cross-reference with Desktop Findings

After the Regional Team collects quantifiable information from field interviews, public data sources, and network observations, the Team cross references findings with information that was found during the Desktop Research. The Regional Team documents findings from the field that are different from the desktop findings. If the Regional Team identifies a provider not listed in the Desktop Research, the Regional Team goes back to the Lead Desktop Researcher assigned to the PFSA. The Desktop Researcher then conducts a review of the new providers' data and amends the Desktop Research Report.

4.6 Run Network Calculations

Once the Regional Team cross-references findings from the field with the Desktop Research findings, the Regional Team conducts high-level calculations to validate the sufficiency of infrastructure to support 10/1 service within the PFSA being validated. This process is conducted regardless of whether a PNR exists in a PFSA. Calculations can only be conducted for PFSA's from data obtained during field interviews as detailed in step 4.4. If there is not enough information to conduct such network calculations, the Regional Team notes that within the *SAV Execution Tool* for documentation purposes.

The first set of potential calculations performed use inputs from the CMTS Technician Questionnaire as referenced in step 4.4. The DOCSIS Version recorded in the questionnaire will be a number (1.0, 1.1, 2.0, 3.0, or 3.1) and the denominator (Number of Subscribers) will be the



number given by the Interviewee and will reflect peak network load. The solution to this equation is the Maximum Mbps per subscriber as depicted below. Based on the DOCSIS Version number provided by the interviewee, the numerator (Max Mbps per DOCSIS Version) in Equations 1 through 8 below are automatically generated by the *SAV Execution Tool* and input into the calculation. **Table 24** represents the potential values which are placed in the numerator for Equations 1 through 8 based upon the Interviewee's DOCSIS Version. Since cable is a shared medium, it is important to understand the maximum capacity available to each subscriber. By performing this calculation, the Regional Team is able to understand the maximum downstream and upstream capacity is available to each user within the network.

Table 24: International Telecommunications Union Maximum DOCSIS Speeds

DOCSIS Version	Max Downstream Speed (Mbps)	Max Upstream Speed (Mbps)
1.0	40	10
1.1	40	10
2.0	40	30
3.0	1,200	200
3.1	10,000	2,000

Equation 1: DOCSIS Version 1.0/1.1 - Maximum Downstream Mbps per Subscriber

$$\frac{\text{Max Mbps per DOCSIS Version}}{\text{Number of Subscribers}} = \text{Theoretical Maximum Mbps per subscriber}$$

Equation 2: DOCSIS Version 1.0/1.1 - Maximum Upstream Mbps per Subscriber

$$\frac{\text{Max Mbps per DOCSIS Version}}{\text{Number of Subscribers}} = \text{Theoretical Maximum Mbps per subscriber}$$

Equation 3: DOCSIS Version 2.0 - Maximum Downstream Mbps per Subscriber

$$\frac{\text{Max Mbps per DOCSIS Version}}{\text{Number of Subscribers}} = \text{Theoretical Maximum Mbps per subscriber}$$

Equation 4: DOCSIS Version 2.0 - Maximum Upstream Mbps per Subscriber

$$\frac{\text{Max Mbps per DOCSIS Version}}{\text{Number of Subscribers}} = \text{Theoretical Maximum Mbps per subscriber}$$

Equation 5: DOCSIS Version 3.0 - Maximum Downstream Mbps per Subscriber

$$\frac{\text{Max Mbps per DOCSIS Version}}{\text{Number of Subscribers}} = \text{Theoretical Maximum Mbps per subscriber}$$

Equation 6: DOCSIS Version 3.0 - Maximum Upstream Mbps per Subscriber

$$\frac{\text{Max Mbps per DOCSIS Version}}{\text{Number of Subscribers}} = \text{Theoretical Maximum Mbps per subscriber}$$



Equation 7: DOCSIS Version 3.1 - Maximum Downstream Mbps per Subscriber

$$\frac{\text{Max Mbps per DOCSIS Version}}{\text{Number of Subscribers}} = \text{Theoretical Maximum Mbps per subscriber}$$

Equation 8: DOCSIS Version 3.1 - Maximum Upstream Mbps per Subscriber

$$\frac{\text{Max Mbps per DOCSIS Version}}{\text{Number of Subscribers}} = \text{Theoretical Maximum Mbps per subscriber}$$

The ninth potential calculation performed uses inputs from the DSL Technician Questionnaire as referenced in step 4.4. The numerator (Number of PFSA Square Miles) is input into the DSL Technician Questionnaire by the Regional Team and the *SAV Execution Tool* automatically pulls this value into the equation. The denominator (Number of DSLAMS in PFSA) is based on the answer provided by the interviewee. The *SAV Execution Tool* also automatically pulls this value into the equation. The solution to this equation is Square Miles per DSLAMS. Since DSL technology is sensitive to distance, by performing this calculation, the Regional Team is able to discern the implications of any distance limitations with DSL technology. Once the solution to this equation (Square Miles per DSLAM) is determined, the *SAV Execution Tool* automatically calculates a distance in feet which each DSLAM covers in any direction. The Regional Team needs to cross-reference this value with **Table 25** to discern where speeds decrease/fall off based on distance and flavor of DSL. Flavor of DSL is asked of the interviewee as referenced in step 4.4.

Equation 9: DSLAMS Coverage Distance

$$\frac{\text{Number of PFSA Square Miles}}{\text{Number of DSLAMS in PFSA}} = \text{Square Miles per DSLAM}$$

Table 25: DSL Attenuation Chart via VersaTechnology

Flavor of DSL	Download Speed (Mbps)	Upload Speed (Mbps)	Distance (ft)
G.lite	1.5	.512	18,000
ADSL	6-8	.640	12,000 – 18,000
ADSL2	12	1	6,000
ADSL2+	27	1	3,000
VDSL	13-52	1.5 – 2.3	4,500
VDSL2	200	200	6,600
IDSL	.14	.14	> 2,000
SDSL	1.5	1.5	10,000 – 18,000
HDSL	2.3	2.3	12,000



The next set of potential calculations (Equations 10 and 11) performed uses inputs from the FW Technician Questionnaire as referenced in step 4.4. **Table 26** shows the six options the FW Technician chooses from during the interview. Based on the response of the interviewee, there is a relative Bits/Hz value for each Modulation Scheme. Equation 10 has a numerator that consists of two multipliers, Bits/Hz, which are automatically generated by the *SAV Execution Tool* based on the Modulation Scheme the interviewee selects and the Total Receipt Bandwidth, which is in Megahertz (MHz) and provided by the interviewee. The denominator (Number of Subscribers) is also the number provided by the interviewee and reflects peak network load. The solution to this equation is the Theoretical Maximum Capacity which is in Mbps. Equation 11 also starts with a multiplier (Bits/Hz), which is automatically generated by the *SAV Execution Tool* based on the Modulation Scheme the interviewee selects. That value is then multiplied by the Total Transmit Bandwidth which is in Megahertz (MHz) and provided by the interviewee. The solution to this equation is the Maximum Theoretical Capacity which is in Mbps. By performing this calculation, the Regional Team is able to understand the theoretical maximum downstream and upstream capacity available to each user within the network.

Table 26: Fixed Wireless Modulation Scheme Conversions

Modulation Schemes	Bits/Hz
8	3
16	4
32	5
64	6
128	7
256	8

Equation 10: Fixed Wireless Upstream Modulation Capacity

$$\frac{\left(\frac{\text{Bits}}{\text{Hz}}\right) \times (\text{Total Receipt Bandwidth})}{\text{Number of Subscribers}} = \text{Theoretical Maximum Capacity per subscriber}$$

Equation 11: Fixed Wireless Downstream Modulation Capacity

$$\frac{\left(\frac{\text{Bits}}{\text{Hz}}\right) \times (\text{Total Transmit Bandwidth})}{\text{Number of Subscribers}} = \text{Theoretical Maximum Capacity per subscriber}$$

Equations 12 through 15 use inputs from multiple Technician Questionnaires (DSL, CMTS, FW, and FTTP) as referenced in step 4.4. The common question across the Questionnaires is, “What is the capacity of your transport facilities in place from your consolidation location?”. The calculation(s) performed are based upon the types of technology within the PFSA being evaluated, therefore the equations below may not be calculated for every PFSA validated. The numerator (Circuit Capacity) of this equation is in Mbps and automatically pulled into the calculation by the *SAV Execution Tool* from the relative Technician Questionnaire. The



denominator (Number of Subscribers) is also automatically pulled into the equation using the same method. The solution to these equations is the Maximum Capacity per user which is shown in Mbps. By performing these calculations, the Regional Team is able to discern the Maximum Capacity per user of the transport facilities. This solution directly informs the Regional Team if the network can deliver service less or greater than 10Mbps at the transport layer.

Equation 12: DSL - Maximum Transport Circuit Capacity per user

$$\frac{\text{Circuit Capacity}}{\text{Number of Subscribers}} = \text{Maximum Transport Circuit Capacity per user}$$

Equation 13: CMTS - Maximum Transport Circuit Capacity per user

$$\frac{\text{Circuit Capacity}}{\text{Number of Subscribers}} = \text{Maximum Transport Circuit Capacity per user}$$

Equation 14: FW - Maximum Transport Circuit Capacity per user

$$\frac{\text{Circuit Capacity}}{\text{Number of Subscribers}} = \text{Maximum Transport Circuit Capacity per user}$$

Equation 15: FTTP - Maximum Transport Circuit Capacity per user

$$\frac{\text{Circuit Capacity}}{\text{Number of Subscribers}} = \text{Maximum Transport Circuit Capacity per user}$$

Equation 16 is the final potential type of calculation to be performed by the Regional Team during the validation of individual PFSA's. This equation uses inputs from the FTTP Technician Questionnaire as referenced in step 4.4. The numerator (Aggregation Router Backplane Capacity), is provided in Mbps by the interviewee and automatically pulled into the calculation by the *SAV Execution Tool*. The denominator (Number of Subscribers), is also provided by the interviewee and pulled into the calculation by the same method. The solution to this equation is the Maximum Capacity per user which is also in Mbps. By performing this calculation, the Regional Team is able to discern the Maximum Capacity per user of the access facilities. This directly informs the Regional Team if the network can deliver service less or greater than 10Mbps at the access layer.

Equation 16: FTTP Maximum Capacity per user

$$\frac{\text{Aggregation Router Backplane Capacity}}{\text{Number of Subscribers}} = \text{Maximum Capacity per user}$$

4.7 Update SAV Field Worksheet

After the findings are logged within the *SAV Execution Tool*, the Regional Team updates the *SAV Field Worksheet* (as shown in **Table 27**), confirming they have prepared the application record and logged the supporting documentation and materials in the appropriate folder in the SAV Document Library.



Table 27: SAV Field Worksheet

Item	Observation
Relative PFSA Name	[Insert as provided on application]
Funding Type of Application	[Insert as provided on application]
Common Name of Applicant	[Insert as provided on application]
The below checklist items are to be conducted as part of Step 4.7 ONLY	
Date of checklist started	[MM/DD/YYYY]
Date of checklist completed	[MM/DD/YYYY]
Local time checklist started	[Insert]
Local time checklist completed	[Insert]
Field Interviews complete?	[Yes/No]
Collected/attempted to collect information from other public data sources?	[Yes/No]
Conducted/attempted to observe physical network infrastructure?	[Yes/No]
Conducted/attempted network calculations?	[Yes/No]
Regional Lead solved any PNR discrepancies?	[Yes/No]
Any unsolved PNR discrepancies were escalated to USDA?	[Yes/No]
Name(s) of Regional Team Member(s) who completed the above checklist items?	[Insert name(s)]
The below checklist items are to be conducted as part of Step 4.10 ONLY	
Date of checklist started	[MM/DD/YYYY]
Date of checklist completed	[MM/DD/YYYY]
Local time checklist started	[Insert]
Local time checklist completed	[Insert]
Field Research Report generated?	[Yes/No]
Field Research Report Findings concurred on by Regional Lead?	[Yes/No]
Did the Broadband SME render opinion on findings objection?	[Yes/No/Non-Applicable because there was concurrence]



Item	Observation
Was the SAV Execution Tool updated after Broadband SME provided opinion?	[Yes/No/Non-Applicable because there was concurrence]
If there was no concurrence, did the Regional Team regenerate the Field Research Report and complete steps 4.8 and gain concurrence from the Regional Lead? If no, steps 4.8.2 and 4.8.3 are repeated as necessary.	[Yes/No]
Is the Field Research Report ready for delivery to the Desktop Advisor?	[Yes/No]
If the Field Research Report is not ready for delivery to the Desktop Advisor, did the Regional Team repeat steps 4.8 through 4.8.3 until the Field Research Report was ready for delivery to the SAV Review Lead?	[Yes/No]
Is the Field Research Report ready to be routed to the Desktop Advisor?	[Yes/No]
Name(s) of Regional Team Member(s) who completed the above checklist items?	[Insert name(s)]

4.8 Generate Field Research Report

After the *SAV Field Worksheet* items are deemed complete by the Regional Team, the Regional Team runs the report by clicking “Report” in the *SAV Execution Tool*. This pulls data into a summary report of the PFSA for a relative application and is stored within the *SAV Execution Tool* until step 4.9. In this summary report, the Regional Team adds a text summary of the findings and determination for the PFSA associated with the application in a free form text box. This finalizes the initial draft *SAV Findings & Determination Report*. Once the report is prepared, the Regional Team reviews the draft against the log in the *SAV Execution Tool* to confirm the data pull was successful. Once this is complete, the Regional Team sends the draft *SAV Findings & Determination Report* to the SAV Coordinator for archiving via email and copies the Regional Lead.

4.8.1 Decision Point – Concurrence on Findings?

The Regional Lead accesses SharePoint and reviews the draft *SAV Findings & Determination Report*. If the Regional Lead does not concur with the findings of the Regional Team, the Regional Lead engages the Broadband SME as described in step 4.8.2. If the Regional Lead concurs with the findings of the Regional Team, the Regional Lead proceeds with step 4.9.

4.8.2 Render Opinion on Findings Objection

If the Regional Lead does not concur with the findings of the Regional Team, the Regional Lead engages the Broadband SME to render an opinion on the discrepancies identified by the Regional Team. The Regional Lead sends a detailed email to the Broadband SME to ask their opinion on the comments left in the draft *SAV Findings & Determination Report*. The Broadband SME



renders an opinion within the draft *SAV Findings & Determination Report* and sends the updated draft *SAV Findings & Determination Report* to the Regional Lead. The Regional Lead forwards that email to the Regional Team and directs them to review the opinion. If necessary, the Regional Lead facilitates a conference call between the Regional Team, Regional Lead and Broadband SME. Once a determination is agreed upon, the Regional Team updates the *SAV Execution Tool* as described in step 4.8.3. If a determination cannot be agreed upon by all parties, the matter is brought to the attention of the ReConnect Program Manager.

4.8.3 Update SAV Execution Tool

Once a findings determination is agreed upon, the Regional Team updates the information in the *SAV Execution Tool* as detailed via email from the Regional Lead. Once the *SAV Execution Tool* is updated, the Regional Team continues with the remaining steps in the process. This step must be repeated until there is concurrence on the findings in the draft *SAV Findings & Determination Report* before proceeding to step 4.9. Once there is concurrence, the Regional Lead notifies the SAV Coordinator to execute step 4.9.

4.9 Archive SAV Execution Tool on SharePoint

After the Regional Lead concurs with the findings of the Regional Team, the Regional Lead notifies the SAV Coordinator by email and the SAV Coordinator archives all supporting documentation and materials to the SAV Document Library for record keeping on SharePoint. If the materials are specific to one or multiple PFSA's associated with the application, sub-directory names according to the PFSA are created.

4.10 Update SAV Field Worksheet

Once the *SAV Execution Tool* is archived on SharePoint, the Regional Lead updates the *SAV Field Worksheet* started in step 4.7, confirming the Regional Lead has concurred on the Field Research findings and all supporting documentation and materials in the *SAV Execution Tool* are archived on SharePoint.

4.11 Route Field Research Report to Desktop Advisor

After the Regional Lead completes the *SAV Field Worksheet*, the Regional Lead sends the Desktop Advisor an email with the link to the draft *SAV Findings & Determination Report* on SharePoint as well as a soft copy of the completed draft *SAV Findings & Determination Report*. The Regional Lead copies the SAV Coordinator on the same email to notify them to update the SAV Status Tracker. The Regional Lead then updates the SAV Checklist to indicate Field Research is complete.

4.12 Update SAV Status Tracker

Once the SAV Coordinator receives the email from the Regional Lead, the SAV Coordinator updates the SAV Status Tracker for the appropriate application record on SharePoint. The status update should be completed immediately upon receipt of the notification from the Regional Lead.



5.0 Prepare SAV Findings & Determination Report

After the Desktop and Field Research procedures are complete, the SAV findings are compiled into the draft *SAV Findings and Determination Report*, exported from the *SAV Execution Tool* for each application. The initial draft is reviewed by the Desktop Advisor before routing up to the SAV Review Lead and Regional Leads for additional quality assurance checks and concurrence reviews. The production of this draft report should take approximately two business days to complete. The outputs of this procedure are provided on **Table 28**.

Table 28: Prepare SAV Findings & Determination Report Procedure Outputs

Output Item	Required?	Description
Draft SAV Report	Yes	The first draft report that includes the outputs of the Desktop and Field Research procedures.
Notification of Closeout	Yes	A notification signaling the end of the Desktop and Field Research Teams supporting procedures 3.0 and 4.0 activities involvement in the SAV for the given application.

Prepare SAV Findings & Determination Report Procedure

5.1 Review Draft SAV Findings & Determination Report

Once the draft *SAV Findings & Determination Report* and *SAV Execution Tool* have been saved on SharePoint for a SAV, the QC Lead reviews the draft Report for general formatting, grammar, spelling, and other technical edits. Once complete, the QC Lead sends the draft *SAV Findings & Determination Report* to the Desktop Advisor to review the report for completion and technical accuracy.

5.1.1 Decision Point—Draft Report Sufficiently Complete?

If the Desktop Advisor believes the draft *SAV Findings & Determination Report* is sufficiently complete for final reviews the Desktop Advisor proceeds to step **5.2**. Alternatively, if the report contains errors or there are incomplete sections, the Desktop Advisor proceeds to step **5.1.2**.

5.1.2 Locate Application Records and Availability of Missing Information

If information is determined to be missing from the report or analysis, the Desktop Advisor sends the report to the SAV Coordinator highlighting the errors or areas with missing information. The SAV Coordinator conducts due diligence to locate the missing information in the SAV Document Library and *SAV Execution Tool* saved on SharePoint. The SAV Coordinator may solicit the help of the Desktop Research Team as needed. Once this process is completed, the SAV Coordinator sends the updated draft *SAV Findings & Determination Report* to the Desktop Advisor for review.

5.2 Archive Draft SAV Report in SharePoint and Route to Regional Lead

Before routing the draft *SAV Findings & Determination Report* to the Regional Lead, the Desktop Advisor archives the report on SharePoint and updates the *SAV Checklist*. Once archived, the Desktop Advisor notifies the SAV Coordinator that the draft report for the SAV is sufficiently complete and ready for final review and routes the draft report to the Regional Lead.



5.3 Update SAV Status Tracker

Upon notification from the Desktop Advisor, the SAV Coordinator updates the SAV Status Tracker to “Under Review” for the application on SharePoint.



6.0 SAV Report Review and Submission

To ensure the final *SAV Findings & Determination Report* is thoroughly reviewed and the Team arrives at an eligibility determination aligned with the PFSA eligibility criteria described SAV Purpose (**Document Overview**), the SAV Review Team routes the *SAV Findings & Determination Report* through senior project reviewers before submitting to the Application Review Team. This process requires concurrence on eligibility, clear channels of authority and communication, and a thorough reading of the report for accuracy of the eligibility determination. The procedure begins with an initial review of the draft *SAV Findings & Determination Report* performed by the Regional Lead and culminates in the delivery of the final *SAV Findings & Determination Report* to the Application Case Manager.

SAV Report and Submission Procedure

6.1 Review Report and Confirm Eligibility Determination

After reviewing the report, the Regional Lead confirms the eligibility determination as provided on the summary page of the draft *SAV Findings & Determination Report*. The determination is based on the review of the report and the perceived confidence and quality of data collected.

6.2 Concur on Eligibility Determination

Upon confirming the eligibility determination, the Regional Lead forwards the report to the Regional Leads who were not assigned the application for concurrence. For example, if a SAV takes place in the Western region, the other Regional Leads consist of the Central and Eastern Regional Leads. After receiving the report from the designated Regional Lead, the other Regional Leads collaborate and determine whether they agree with the eligibility determination issued by the Field Research Team. Should the Regional Leads *agree* on the determination, the process proceeds to step 6.4. Should the Regional Leads *disagree* on the eligibility determination, the report is escalated to the Broadband SME per step 6.3.

6.3 Render Final Determination

If the Regional Leads do not reach concurrence on the final eligibility determination, the report is routed to the Broadband SME for review. The Broadband SME relies on technical knowledge and interpretation of the data in the report to issue guidance and any next steps to clarify outstanding questions. The Broadband SME authors a memo and includes the details provided in **Table 29**. This report is sent back to the Regional Team for final determination. If 6.3 is executed, this memo becomes a component of the final *SAV Findings & Determination Report*.



Table 29: Broadband SME Memo Contents

Output Item	Required?	Description
Next Steps and Guidance	Yes	If additional Field Research is required to clarify the justification for the eligibility determination issued by the Field Research Team, the Broadband SME will draft these instructions, detailing key activities and outputs thereof to be included in the Field Research Report before submission.
Justification	Yes	The Broadband SME details the reasoning behind the guidance and next steps issued, explaining what actions and data points should be collected to clarify the eligibility determination.

6.4 Conduct Quality Assurance on Final Report

After the report is archived on the SharePoint site, the SAV Review Lead conducts a final quality assurance review, making any adjustments to the report as needed.

6.5 Archive SAV Findings & Determination Report to SharePoint

After the final report and eligibility determination is confirmed by the Regional Leads or the Broadband SME, the SAV Coordinator archives the report on SharePoint. To maintain version control, the final report is labeled with unique identifiers in the following format: “AppID_SAV Report_Date”) and is saved in PDF format in the SAV Document Library.

6.6 Route SAV Report to Application Case Manager

Upon archiving the report, the SAV Review Lead sends the final *SAV Findings & Determination Report* to the Application Case Manager. The SAV Coordinator formally closes-out the report, notifying the SAV Review Team that the SAV is complete and updates the *SAV Checklist* to indicate that the *SAV Findings & Determination Report* has been submitted to the Application Case Manager.