

## U.S. Department of Agriculture Natural Resources Conservation Service

## NOTICE OF GRANT AND AGREEMENT AWARD

1. Award Identifying Number	2. Amendr	nent Number	3. Award /Project Per	iod	4. Type of award instrument:			
NR243A750004G012			Date of Final Signatu 11/17/2028	ıre -	Grant Agreement			
5. Agency (Name and Address)			6. Recipient Organization (Name and Address)					
USDA Partnerships for Climate-Smart Commodities c/o FPAC-BC Grants and Agreements Division 1400 Independence Ave SW, Room 3236 Washington, DC 20250 Direct all correspondence to FPAC.BC.GAD@usda.gov			ARIZONA ASSOCIATION CONSERVATION DISTRICTS INC 25560 W MC 85 BUCKEYE AZ 85326 UEI Number / DUNS Number: HDK3BHJ4AKK1 / 196434810 EIN:					
7. NRCS Program Contact	1.15106. Mich. 411006. 30.00	Administrative ontact	9. Recipient Program Contact		10. Recipient Administrative Contact			
Name: SOPHIE PARKER	Name: Jo	Beth Bellanca	Name: WESTON HA	RT	Name: DEBORRAH SMITH			
(b)(6)								
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		• 215-2						
11. CFDA	12. Authority		13. Type of Action		14. Program Director			
10.937	15 USC 714 et seq		New Agreement		Name: SHARMA TORRENS			
					(b)(6)			
15. Project Title/ Description: Expands markets for climate-smart specialty crops, organic crops, grains and livestock in Arizona and tribal areas and supports rancher implementation and monitoring of climate-smart practices.								
16. Entity Type: M = Nonprofit with 501C3 IRS Status (Other than Institution of Higher Education)								
17. Select Funding Type								
Select funding type:		🔀 Federal		🔀 Non-Federal				
Original funds total		\$4,902,479.00		\$431,929.00				
Additional funds total		\$0.00		\$0.00				
Grand total		\$4,902,479.00		\$431,929.00				
18. Approved Budget								

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Personnel	\$1,103,200.00		Fringe Benefits		\$0.00	
Travel	\$12,160.00		Equipment		\$0.00	
Supplies	\$0.00		Contractual		\$5,000.00	
Construction	\$0.00		Other		\$3,782,119.00	
Total Direct Cost	\$4,902,479.00		Total Indirect Cost		\$0.00	
			Total Non-Federal Funds			\$431,929.00
		Total Federal Funds Awarded		\$4,902,479.00		
			Total Approved Budget		\$5,334,408.00	
award or amendment a act on behalf of the awa attachments), and agree	and any pay ardee organes that acc	ments made pur nization, agrees eptance of any p	rsuant th that the payment	ereto, the undersigned re award is subject to the ap	orese plicab	ssistance Regulations. In accepting this nts that he or she is duly authorized to le provisions of this agreement (and all he payee that the amounts, if any,
Name and Title of Authorized Government Representative KATINA HANSON Acting Senior Advisor for Climate-Smart Commodities		<sup>Signature</sup> KATINA HANSON		Digitally signed by KATINA HANSON Date: 2023.11.14 12:01:35 -06'00'		11/14/23
Name and Title of Auth Recipient Representati DEBORRAH SMITH CEO - Executive Dire	ve	Signature NGw	ħ	Digitally signed by Deborrah Smith Date: 2023.11.14 10:01:18 -07'00'	Date	11/14/23

## NONDISCRIMINATION STATEMENT

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, SW., Washington, DC 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

#### PRIVACY ACT STATEMENT

The above statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. Section 522a).

# Statement of Work

#### Purpose

The purpose of this agreement, between the U.S. Department of Agriculture, Natural Resources Conservation Service (NRCS) and Arizona Association of Conservation Districts is to build markets for climate-smart commodities and invest in America's climate-smart producers to strengthen U.S. rural and agricultural communities.

## Objectives

The objectives of this project are to support the production and marketing of climate-smart commodities by providing voluntary incentives to producers and landowners, including early adopters, to implement climate-smart agricultural production practices, activities, and systems on working lands; measure/quantify, monitor and verify the carbon and greenhouse gas (GHG) benefits associated with those practices; and develop markets and promote the resulting climate-smart commodities.

#### **Budget Narrative**

The official budget summarized below and described in the attached Budget Narrative will be considered the total budget as last approved by the Federal awarding agency for this award.

Amounts included in this budget narrative are estimates. Reimbursement or advance liquidations will be based on actual expenditures, not to exceed the amount obligated.

TOTAL BUDGET \$5,334,408

TOTAL FEDERAL FUNDS \$4,902,479 PERSONNEL \$1,103,200 FRINGE BENEFITS \$0 TRAVEL \$12,160 EQUIPMENT \$0 SUPPLIES \$0 CONTRACTUAL \$5,000 CONSTRUCTION \$0 OTHER \$3,782,119 (includes PRODUCER INCENTIVES \$1,920,000) TOTAL DIRECT COSTS \$4,902,479 INDIRECT COSTS \$0

TOTAL NON-FEDERAL FUNDS \$431,929 PERSONNEL \$117,900 FRINGE BENEFITS \$0 TRAVEL \$61,865 EQUIPMENT \$0 SUPPLIES \$1,250 CONTRACTUAL \$0 CONSTRUCTION \$0 OTHER \$227,813 (includes PRODUCER INCENTIVES \$0) TOTAL DIRECT COSTS \$408,828 INDIRECT COSTS \$23,101

Recipient has elected to use the de minimis indirect cost rate.

Recipient has elected to voluntarily waive indirect costs on federal funds.

## **Responsibilities of the Parties:**

If inconsistencies arise between the language in this Statement of Work (SOW) and the General Terms and Conditions attached to the agreement, the language in this SOW takes precedence.

## RECIPIENT RESPONSIBILITIES

Perform the work and produce the deliverables as outlined in this Statement of Work and attachments.

Ensure Paperwork Reduction Act (PRA) clearance is obtained prior to conducting data collection from producers or other project participants, including data collection performed by subrecipients.

Comply with the applicable version of the General Terms and Conditions.

Submit reports and payment requests to the ezFedGrants system as outlined in the applicable version of the General Terms and Conditions. Reporting frequency is as follows:

Performance Reports: Quarterly

SF425 Financial Reports: Quarterly

Detailed Progress Report: Quarterly (The detailed progress report is in addition to the performance and financial reports referenced above and described in the general terms and conditions)

#### Expected Accomplishments and Deliverables

See attached Benchmarks Table and associated Project Narrative.

#### **Resources Required**

See the Responsibilities of the Parties section for required resources, if applicable.

Milestones

See attached Benchmarks Table and associated Project Narrative.

## **GENERAL TERMS AND CONDITIONS**

Please reference the below link(s) for the General Terms and Conditions pertaining to this award: https://www.fpacbc.usda.gov/about/grants-and-agreements/award-terms-and-conditions/index.html

Attachments: Budget Narrative Project Narrative Benchmarks Table Climate-Smart Practices List and Limitations Data Dictionary Climate-Smart Specific Terms and Conditions

#### Withheld pursuant to exemption

(b)(4)

# Climate-SMART (Specific Management for Arizona Resilience and Transformation) Agriculture Best Management Practices

# **EXECUTIVE SUMMARY OF PILOT PROJECT**

Executive Summary of Pilot Project, which includes at minimum a high-level description of the project, the issues it is seeking to address and how the project will contribute to the goals in this funding opportunity:

The Climate-SMART Agriculture Best Management Practices (Ag BMPs) project's goal is to create a program for growers in Arizona to adopt Climate-Smart Agriculture and Forestry (CSAF) practices that will allow abundant agriculture while using practices that conserve water, promote healthy soil, and mitigate climate change providing beneficial ecosystem services including carbon sequestration. Arizona (and the larger southwest) has been particularly impacted by climate change, making climate-smart solutions in Arizona agriculture a necessary part of our state's future. States in the Midwest and East experience an abundance of rainfall that allow for easier crop growth than in the arid Southwest. Typically, farming and ranching assistance programs provided by government agencies tend to be geared towards these areas of high production and higher rainfall.

There has not been a concerted effort to engage Arizona producers in practicing organic and regenerative management or in having indigenous traditional ecological knowledge (ITEK) transferred to "conventional" producers. Arizona producers are reluctant to implement more restrictive standards involved in these approaches, which makes the education component about these practices and especially CSAF practices even more critical. Compounding this problem, producers may be unable to afford to implement these practices. All of this creates a need to have an Arizona-specific program (which can be replicated in similar, arid climates) tailored to meet the needs of this drought-ridden climate as well as our producers, acknowledging their needs and incentivizing them to implement CSAF practices.

With an objective of having half of our target producers be Native Americans, we seek to focus on historically underserved populations and to create collaborative partnerships between indigenous traditional ecological knowledge (ITEK) and conventional producers to emphasize cross-cultural knowledge sharing, as well as those who have adopted USDA Organic standards and regenerative practices, will be engaged as our "early adopters" and help with the transfer of knowledge to conventional producers. Alongside producer-to-producer technical support, we will offer training guides and resources on climate-smart practices to conventional producers. While this resource component will broadly cover ITEK/organic/regenerative practices, we will also offer specific biological consulting to all producers on the project to help diversify climate-smart tools available to them with biocontrols, biostimulants, and biofertilizers in aid of applying CSAF practices to their lands.

We will create a two-tier system for engaging producers: Tier 1 will enlist 20 early adopters that will be incentivized to engage in peer-to-peer workshops and trainings and continue their practices. Tier 2 will consist of 20 producers using conventional practices who will be incentivized to implement the Arizona-specific, but replicable, CSAF practices.

Project partners will help with climate-smart consulting, listening sessions, workshops, general education, determining soil strata, analyzing soil samples, assessing GHG output reductions,

creating a market for climate-smart practices beneficial to Arizona's climate, and compiling data and information learned. We seek to incentivize participating producers to implement CSAF practices through this shared knowledge, support, and monetary means.

A market will be initiated to encourage consumer demand of the products grown with these methods. Overall, the methods to educate and transfer knowledge using early adopter producers, and incentivizing producers who use conventional methods of crop growing to implement these less restrictive but more tailored climate-smart practices, will encourage producers to engage in these emergent practices.

Practices include: 327 Conservation Cover, 328 Conservation Crop Rotation, 329 Residue and Tillage – No Till, 340 Cover Crop Acres, 345 Residue and Tillage – Reduced Till, 484 Mulching, 528 Prescribed Grazing, 590 Nutrient Management, and Energy, Combustion, and Electricity Efficiency.

Commodities include: Specialty crops, Organic crops, Grains, and Livestock.

A. Contact Information.

Arizona Association of Conservation Districts, 7467 E Broadway Blvd., Tucson, AZ 85710

Principle Investigator: Deborrah Smith, AACD Executive Director, (830) 719-5372, smith.aacd@gmail.com

Sharma Torrens, AACD Partnership Coordinator, (602) 540-5331, torrens.aacd@gmail.com

## B. List of Project Partners.

Arizona Association of Conservation Districts; Indian Nations Conservation Alliance; Arizona State University Kyl Center for Water Policy; ASU Swette Center for Sustainable Food Systems; ASU School of Sustainable Engineering and the Built Environment; ASU Global Institute of Sustainability; University of Arizona; Local First Arizona; Duncan Family Farms; Pinnacle Prevention, Soil Health Institute; Northern Arizona University; Organic Trade Association.

## C. List of underserved/minority-focused project partners.

Our goal is to have 20 of the 40 producers selected to be participants in this project will be Native Americans. We also anticipate that historically underserved producers will make up a portion of the remaining producers. Producers will be identified through Conservation Districts statewide through the Districts' networks of District Supervisors, Cooperators, and local communities. Many producers in the state are in historically rural areas and are individuals who identify as minority producers.

D. Compelling need for the project.

Given Arizona's often arid and difficult agricultural environment, there is a compelling need for producers to engage in more climate-smart practices that will conserve water, improve soil health, sequester carbon, and reduce GHGs. Producers who have adopted organic, regenerative methods, and utilize climate-smart practices already are needed to incentivize and help educate other conventional producers to adopt these practices.

Challenges are present which have dissuaded many Arizona producers from engaging in climate-smart practices. Most producers do not practice organic and/or regenerative

practices. In 2019, there were 19,000 farms and ranches in Arizona, with 17.8% in crop production (AZ Annual Bulletin 2020). The number of certified organic farms in Arizona was 62 (Ag Census, USDA, 2019. Because there is no uniform standard for regenerative practices, it is difficult to determine the number of growers applying these practices with certainty, however we estimate there are 20 farmers and ranchers in Arizona practicing regenerative agriculture (Regeneration International).

Many producers may be increasing irrigation efficiency, but there is still more work to be done that will reduce the amount of water consumed. Much of the research in these kinds of systems has been done in temperate environments, so it is unclear to researchers as well as producers if these practices are effective in Arizona's arid environment.

Practices geared towards states with different climates, landscape conditions, and amounts of rainfall generally do not work or are tougher to achieve in the arid southwest which has been experiencing some level of drought for almost 30 years. Since 1994, Arizona has been in some stage of drought; for the month of April 2022, 52% of the state was designated as in "Severe Drought" (<u>DWR</u>). While Arizona has been in a significant drought for almost 30 years, many USDA programs have been developed for areas that have not endured this harsh dryness for such a prolonged time and do not have the same kinds of calcareous soils that Arizona has. Thus, a program tailored to work in these extreme conditions is vital.

Not only are different approaches necessary with this climate and with the nature of our producers, but there hasn't been a concerted focus on conducting peer-to-peer workshops. Our farmers and ranchers must learn from their peers that are already engaging in climate-smart practices. And a great need in Arizona (and other states) are efforts to bridge the gap between organic/regenerative/ITEK producers and conventional producers to begin discussions between the two sides.

Soil health is the foundation for ITEK, organic, and regenerative agriculture, as management practices that improve soil health simultaneously benefit farmers and the environment. Farmers benefit from these practices through improved drought resilience, water-use efficiency, nutrient availability, field access, erosion resistance, pathogen suppression, profitability, reduced use of synthetic inputs, and yield stability. Those same practices also reduce greenhouse gas emissions, increase carbon sequestration, improve water quality, decrease sedimentation of reservoirs, stabilize local hydrology, and provide pollinator habitat.

Indigenous environmental knowledge informs our modern understanding of organic and regenerative agriculture. ITEK is often described as the original adaptive management system (Berkes et. al, 2000). Indigenous communities utilizing ITEK have shown organic farmers how to think holistically about agricultural practices in such a way that is beneficial for both humans and the wider ecosystem (Anderson, 2016). Key to ITEK is Indigenous communities' deep sense of place in a specific environment, which allows them to understand the interrelations between crops, native plants, and wildlife and the different water needs of each (U.S. Fish & Wildlife Service, 2011). For example, the Tohono O'odham Nation has adapted their farming practices to the harsh conditions of the Southwest climate, pushing the tribe to develop dryland farming techniques (Dale, 2018). Dryland farming, or farming only with rainwater, requires a unique set of management practices to best utilize water when it does rain and encourage productive transpiration among drought-tolerant crops (Stewart, 2016). Like the Tohono O'odham, the Hopi have also developed crop varieties that are best suited to their dry environment, such as corn

varieties that can survive being planted a foot deep to help develop a strong root system that can seek out groundwater (Levin, 2019). While formal and academic recognition of Indigenous contributions to Western agriculture are a more recent development, the farming techniques that tribes have developed over centuries do inform modern organic and regenerative farming practices. Bill Mollison, regarded as "the father of permaculture," ascribed his principles of embracing diversity in an ecosystem and maintaining a holistic appreciation of the ecosystem's intricacy on what he had learned by observing the Indigenous people of Tasmania (Walker, 2019). Although 59% of Arizona producers are Native American, there has not been much opportunity for sharing of ITEK (NASS).

Despite these well-established benefits, less than 10% of US cropland is managed using the basic soil health practice of cover cropping, for example. Adoption is often hindered by lack of place-based economics information, soil health training programs, and, until now, knowledge of the most effective soil health measurements and a process to establish soil health targets (goals) so farmers know what level of soil health and carbon sequestration can be achieved on their farms.

The last factor that prevents Arizona farmers and ranchers from implementing many of these practices is that they, like many other producers in the nation, are land-rich and cashpoor, and they typically cannot afford to do so. Financial incentives are vital to this program's success.

Utilizing CSAF practices with some of ITEK, USDA organic, and regenerative practices, we will tailor a program geared to be most effective in our state (as well as other southwestern states). These practices are listed here:

- 327 Conservation Cover
- 328 Conservation Crop Rotation
- 329 Residue and Tillage No Till
- 340 Cover Crop Acres
- 345 Residue and Tillage Reduced Till
- 484 Mulching
- 528 Prescribed Grazing
- 590 Nutrient Management
- Energy, Combustion, and Electricity Efficiency

We will include current early adopters for ITEK, organic and regenerative agriculture, and those already implementing CSAF practices, incentivize early adopters to conduct the peer-to-peer workshops, and continue their climate-smart practices. Additionally, with these early adopters transferring their knowledge to conventional producers we will bridge the gap between ITEK/organic/regenerative and our conventional producers.

Producers may adopt USDA organic, regenerative, or ITEK practices to maximize carbon sequestration and climate benefits. Alternatively, producers may opt to implement CSAF

practices, which are more accessible and attainable standards for Arizona conventional producers. Methods to ensure a producer has soil health are well-researched and known. Traditional organic and regenerative practices enhance soil health. And healthy soil can also sequester carbon and conserve water. These practices also veer away from synthetic inputs harmful to the soil.

Pesticides and fertilizers are used widely by producers, but generate negative externalities including environmental contaminants (such as phosphate run-off and nitrates), negative impacts on biodiversity and pollinators and a larger carbon footprint with greater greenhouse gas (GHG) emissions (Marrone 2021). Biologicals (biocontrols, biostimulants and biofertilizers) can be a part of the solution to climate-smart agriculture and can offer many co-benefits such as exemption from residue restrictions, increased soil heath, lower

risk to non-target insects, protection from pest resistance to chemical inputs and lower carbon footprints. Many organic and regenerative producers already use biologicals, but challenges to faster adoption among conventional producers remains due to a lack of awareness and education in how to deploy their unique modes of action in integrated programs and misperceptions of cost and efficacy. Our project seeks to meet these barriers and educate producers about how biologicals can benefit their operation while making their farm more sustainable. We will offer biological consulting and create biological resource guides. This valuable training will contribute to a culture of awareness around biological alternatives in Arizona agriculture and will diversify the tools available to producers.

The best soil health practices are also known to conserve water. Building soil health holistically, helps to create a healthy ecosystem of insects and microorganisms. In turn, these organisms help to build the structure of the soil, which allows it to both absorb and retain rainwater. Unhealthy, compacted soil not only fails to absorb water for crop benefits, but it also suffers from water erosion, making soil conditions increasingly poor (Nichols, 2017). There is also the issue of drought impacting the chemical structure of soil, as without adequate moisture crops cannot take up the nutrients in the soil. This can lead to an excessive build-up of nitrate in the soil, which further impacts the soil biology and health. Farmers can avoid this by employing practices that have long been embraced by the organic sector: cover cropping, crop rotation, and leaving crop residue to help continually replace organic matter (Al-Kasi, 2017). The NRCS has been trying to spread understanding of the link between soil health and water conservation, most recently through their 2017 "Unlock the Secrets in the Soil," campaign, which shows farmers how increasing the organic matter of their soil is a key factor in recovering from drought conditions (Nichols, 2017). Such benefits are increasingly important in Arizona's semi-arid climate.

E. Approach to minimize transaction costs associated with project activities.

Farmers who participate will be paid \$1,800/acre with a limit of \$16,000 per producer/year for 3 years to implement CSAF practices on a portion of their farms. Early adopters will be paid for maintenance of the climate-smart practices they employ and for participation in the peer mentorship program with conventional producers (educational workshops, etc.). Conventional producers will be paid for adoption and maintenance of CSAF practices.

Ranchers will be compensated based on which CSAF practices are most beneficial to their operations, determined during Year 1; payment will also be determined after these sessions based on acreage with a limit of \$16,000/producer/ year. Approach to reducing producer barriers to implementing CSAF (Climate-Smart Agriculture and Forestry) practices for the purpose of marketing climate-smart commodities.

Education and financing are significant barriers preventing Arizona producers from implementing CSAF practices. There is a need for education as many of our farmers and ranchers do not know which practices they can implement to enhance soil health and water conservation. And producers do not have the money to engage in these practices. Our approach will reduce these barriers.

First, we are creating a program that works in Arizona's arid climate, working with UofA, Soil Health Institute, and ASU Global Institute for Sustainability to test the impacts on our soil, and

our proposed program (Climate-SMART Ag BMPs) that will allow producers to adopt CSAF practices that are feasible in an arid environment and beneficial/applicable to their lands and environmental conditions. We will organize and lead peer-to-peer workshops, allowing our early adopter producers to knowledge-share with our conventional producers about ITEK, organic, and/or regenerative methods. By developing a peer-to-peer network, we hope to create a collaborative learning environment where producers feel more comfortable and open to learning about new practices and sharing with one another.

#### F. Geographic Focus.

Statewide across Arizona, with a focus of 20 early adopters around the state and 20 conventional producers within the same soil strata and type. We're also aiming for 20 of the 40 producers to be Native Americans, so our footprint will also expand to Tribal lands. Project management capacity of partners, including a description of existing relationship with and/or prior experience working with producers or landowners, promoting climate-smart activities, and marketing climate-smart commodities.

**Arizona's Conservation Districts** were formed by an enabling act passed in 1941 under ARS Title 37, Chapter 6, to work with private landowners and government agencies managing land and offering technical assistance to conserve natural resources successfully. Districts are locally led by farmers, ranchers, and other landowners. Supervisors are elected/appointed and serve their District by working with other local producers to establish conservation practices beneficial to conserving natural resources while practicing sustainable agriculture. District supervisors live and work alongside neighboring farmers. Local Work Groups and other District meetings provide opportunities for additional interaction. Since our Districts are statewide, we will use their regularly scheduled meetings to hold the peer-to-peer workshops and engage the 20 conventional producers.

**The AACD** will manage and administer grant funds and monitor the farms and ranches (non-Tribal lands, which will be monitored by INCA, see below) to project partners and provide project outreach support through marketing and agency coordination. AACD is well-positioned to perform these duties as they have managed and administered \$2,500,000 of NRCS funds over the past ten years on six projects. In addition, AACD has an established relationship with the University of Arizona Cooperative Extension through the UA's Beginning Farmer and Rancher Project. Finally, AACD manages and administers \$3,090,400 of other agency funds, including work with the Bureau of Land Management on grassland restoration and technical assistance.

**The Indian Nations Conservation Alliance (INCA)** fosters Native Agriculture by helping Tribal producers care for the earth, recognize, and appreciate the interrelatedness of ecology and agriculture, to strengthen the circle of life. INCA will conduct outreach to encourage 20 Tribal producers to participate; they will assist in holding educational workshops; and they will monitor the Tribal farms/ranches participating in the project and conduct GHG surveys. INCA will represent the project, speak to Councils, recruit participants, and gain Tribal Resolutions from Councils prior to any field work being done.

Scientists from the **University of Arizona** will lead the soil sampling. **Dr. Debankur Snyal** has been working with stakeholders for the last six years studying the impacts of climate-smart approaches such as cover crops, bioamendments, livestock integration, and nutrient and water management practices. He has coordinated many state-wide projects, currently building a soil health assessment framework for the stakeholders in Arizona. Dr. Sanyal is actively working with agricultural industries, developing need-based research and Extension approaches.

**Dr. Kathleen Merrigan** from the **Arizona State University (ASU) Swette Center for Sustainable Food Systems** and her staff will create the training guides for the workshops by working with the early adopters, provide technical support on biologicals, and facilitate stakeholder engagement for the workshops. The Swette Center of Sustainable Food Systems at ASU facilitates policy-driven research with farmers. Merrigan is a renowned expert in food and agriculture. From 2009 to 2013, Merrigan was Deputy Secretary and COO of the United States Department of Agriculture, where she led efforts to support local food systems. She is known for authoring the law establishing national standards for organic food and the federal definition of sustainable agriculture.

**Dr. Pam Marrone**, a Senior Fellow at the Swette Center will inform specific resources on biocontrols for soil health and serve as a bio-control consultant with the Center. Marrone has developed award-winning bio-based products for pest management and plant health and will support transitions to more regenerative practices with new technologies and she will help to educate our producers about biologicals and assist in incentivizing them to implement these practices.

**Sarah Porter,** Director of the **ASU Kyl Center for Water Policy** will make recommendations regarding water conservation or efficiency measures within the larger state and regional water policy context in order to ensure optimal use of water supplies. Sarah graduated from Harvard and received her J.D. from ASU Sarah practiced law for several years and then became the Director of Audubon, before becoming the Director of the Kyl Center. The Kyl Center for Water Policy at Morrison Institute promotes research, analysis, collaboration, and dialogue to build consensus on sound water stewardship for Arizona and the West.

From the ASU School of Sustainable Engineering & the Built Environment, Dr. Rebecca Muenich (Fulton Schools of Engineering) will lead the assessment of greenhouse gas emissions from current and proposed practices on the 20 conventional farms engaged in this project. Dr. Muenich has over 10 years of experience in environmental modeling including work with the Century and Daycent models which COMET is built upon. Dr. Muenich will also work closely with Dr. Porter and the Kyl Center for Water Policy on the assessment of soil health practices and their benefit to water conservation.

**Heather Throop** is an Associate Professor at the **ASU Global Institute for Sustainability.** She is an ecosystem scientist who studies how global-scale changes influence arid and semi-arid ecosystems. Professor Throop studies how carbon and nutrients cycle through plants, soils, and the atmosphere and she will enhance the soil samples conducted by UA to test for organic versus inorganic content as well as the stability of the carbon (to remain in the soil).

The **Rural Foods Pathways Project** (RFPP) at the **Northern Arizona University Sustainable Communities Program** will participate in the project by helping to identify and select participating producers and documenting existing and potential climate-smart practices in the northern half of the state. The RFPP has been building a network of producers in this region, many of them located on Tribal lands, e.g., on the extensive Navajo and Hopi reservations. **Peter Friederici, Professor and Director of MA Program in Sustainable Communities,** and a parttime staff coordinator, will help the project directors vet and select agricultural producers (early adopters and conventional), participate in workshops and other educational efforts, and help with dissemination of findings.

**Local First Arizona** (LFA) is a nonprofit organization committed to community and economic development throughout Arizona, which connects people, locally-owned businesses, and communities for meaningful actions that build a diverse, inclusive and prosperous Arizona economy. LFA will spearhead marketing and outreach efforts within two categories, including local market engagement and promotion and consumer awareness outreach about the need for climate-smart agriculture, best management practices, and producers participating in this type of agriculture. **Kimber Lanning**, CEO, who founded LFA in 2003, is an entrepreneur and business leader and community development specialist.

**Pinnacle Prevention ("Pinnacle")** is nonprofit organization dedicated to cultivating a just food system and joyful opportunities. Pinnacle works with small farmers to ensure they receive have access to education and resources. Pinnacle is also the convener of the Arizona Food Systems Network. Pinnacle will play a critical role in organizing, promoting, administering, and documenting the results of the Year 1 listening sessions. In Years 2 and 3, Pinnacle will help to plan and coordinate the producer workshops, with a focus on convening and engaging with its network of local food producers around the state to increase recruitment and meaningful participation. Adrienne Udarbe is the founder and Executive Director, with more a decade of public sector experience, and she served in public health both at the state and local levels.

The **Organic Trade Association** will provide in-kind market expansion support for this program by leveraging their business directory <u>Find.Organic</u>; the go-to source for information on organic products and services. The tool helps the industry meet supply challenges by forging links in the US organic supply chain. Companies across the supply chain <u>use the directory</u> to find suppliers of ingredients they are looking to source, get connected with organic business service providers, and list their products for access to global markets. OTA will list certified organic farmers enrolled in this pilot program on Find.Organic and create a new "Climate-Smart" category on the directory to simultaneously connect farmers with buyers and indicate to buyers this sourcing opportunity will offer climate benefits to their supply chains. In this way OTA will provide two markets for the emerging products: the organic market for producers who transition to certified organic over the course of the project, and the Climate-Smart market for producers who adopt CSAF practices over the course of the project.

The **Soil Health Institute** (SHI) is a nonprofit organization that was established to serve as an umbrella for all individuals and organizations who desire to improve soil health by working together for the common good. SHI will determine the different soil strata that exist in Arizona, help create training materials and collaborate on data collection. **Mr. Sheldon Jones**, CEO, brings over 30 years of experience to the Institute, including a balance of private sector, non-profit and public service experience. **Dr. Cristine Morgan** is responsible for establishing research priorities to advance soil health and developing the scientific direction, strategy, and implementation for soil health research programs. Her duties include leading scientific research that advances soil health science and results in impactful outcomes.

**Duncan Family Farms** is a certified organic farmer that is committed to the environment and the community and has won numerous awards and is nationally recognized as a 'showcase' of progressive and environmentally-sensitive farming techniques, due to their innovative programs. DFF will be a key early adopter and an advisor to aid with workshops and education/outreach. **Arnott Duncan**, a 4<sup>th</sup> generation farmer is the Chairman of the Board and Chief Agronomist.

### PLAN TO PILOT CLIMATE-SMART AGRICULTURE AND/OR FORESTRY PRACTICES ON A LARGE SCALE

A. A description of CSAF practices to be deployed.

Early adopters will receive financial incentives to educate conventional producers and to continue their organic and/or regenerative techniques. Conventional producers will receive financial incentives to implement CSAF practices or, if they choose, organic and/or regenerative practices.

Participating producers implementing CSAF practices will entail the following: (1) a reduction in pesticide and fertilizer input; (2) a reduction in tillage; (3) organic input; and (4) diversity of and year-round cover crop (see list below). Practices for ranchers will be selected during the Year 1 Listening Session, which could include resting certain plots and/or rotational grazing.

NRCS CSAF Practices (with Codes)

327 Conservation Cover

328 Conservation Crop Rotation

329 Residue and Tillage - No Till

340 Cover Crop Acres

345 Residue and Tillage – Reduced Till

484 Mulching

528 Prescribed Grazing

590 Nutrient Management

Energy, Combustion, and Electricity Efficiency

Participating conventional producers can opt to pursue organic certification or to simply engage in these practices (without becoming certified). USDA Organic Standards for Crops require the following: (1) land must have had no prohibited substances applies to it for the last 3 years; (2) soil fertility and crop nutrients are managed through tillage and cultivation practices, crop rotations, and cover crops (supplemented with animal and crop waste materials and allow synthetic materials. (3) crop pests, weeds, and diseases will be controlled primarily through management practices including physical, mechanical, and biological controls; (4) operations must use organic seeds and other planting stock when available; and (5) the use of genetic engineering, ionizing radiation and sewage sludge is prohibited (<u>Organic | Agricultural Marketing Service</u>).

USDA Organic Standards for Livestock and Poultry require the following: (1) dairy animals and animals for slaughter must be raised under organic management for the last third of gestation or

no later than the second day of life for poultry; (2) nonorganic diaries have a one-time opportunity to transition nonorganic animals to organic production (over a 12-month period); (3) producers must feed livestock agricultural feed products that are 100% organic; (4) preventive management practices must be used to keep animals healthy (animals treated with a prohibited substance may not be sold as organic); (5) ruminants must be out on pasture for the entire grazing season, but for not less than 120 days (animals must also receive 30% of their feed from pasture); and (6) all organic livestock and poultry are required to have access to the outdoors year-round (animals may only be temporarily confined due to documentation of environmental or health considerations) (Organic | Agricultural Marketing Service).

Producers can also choose to pursue regenerative practices. Although there are no uniform standards for what constitutes regenerative agriculture, regenerative agricultural principles focus on restoring and enhancing soil health utilizing methods to create more diverse soil

microbiological communities, creating an ideal home for soil microbes (<u>Why Soil Health -</u> <u>Understanding Ag</u>).

B. Plan to recruit producers and land owners, including estimated scale of the project (e.g., number of land owners, acres targeted, head of livestock, etc.).

Working with our partners, Year 1 will be a time to hold Listening Sessions to hear from our producers how we can successfully hold educational workshops and the viable methods to increase soil health, water sequestration, carbon sequestrations, and a reduction of GHGs through CSAF practices. Our partners, including INCA, will help us find the 20 early adopter producers (with a goal of about half being Native Americans). Those persons will engage in peer-to-peer workshops to encourage conventional producers to become participants in this project. These workshops will also help bridge the gap between our early adopters (producers already using climate-smart practices) and our producers using conventional methods. Six or more workshops will be held across the state during the first year to gather our participants. We anticipate that we will be able to target 200–1,400 acres (estimated 20 farmers with 1 acre or as many as 7 acres) and 400–1,000 head of livestock (estimated 20–50 cattle/20 ranchers).

C. Plan to provide technical assistance, outreach, and training, including who will be conducting these activities, qualifications, and projected timeline.

<u>Lead Project Administrator</u>: Deborrah Smith, AACD Executive Director, will act as the Lead Project Administrator, handling project funds distribution and reporting. Deborrah has over 30 years' experience working on and managing federal, state, and local government grants and agreements for nonprofits; working with and helping to manage Conservation Districts; coordinating and managing a substantial number of conservation and educational projects; and working closely with Arizona farmers and ranchers. She is a Certified Federal Contract, Grants, and Financial Manager and has managed over \$28 million in federal and state funds over the last decade for AACD alone, including funding from the NRCS, BLM, and other state and federal government agencies.

<u>Project Coordination, Education, and Outreach</u>: Sharma Torrens, AACD Conservation Education Director, will provide project/partner outreach and coordination, educational workshop coordination, and lead educational workshops. Sharma will meet with federal, state, and other interested parties to provide information on the program and its outcomes, garnering support for funding a statewide program that will support climate-smart practices. Sharma has over 12 years of experience working with environmental and conservation groups, both for-profit and nonprofit, and government and non-government conservation entities throughout Arizona, including holding positions previously at the Arizona Department of Agriculture.

Brooke Gladden, AACD Communications Director, will support project outreach to the Districts and project workshops. Brooke has over six years of experience working with the Districts. She travels across the state to attend District meetings and events hosts educational seminars for professional development and beginning farmers and ranchers and is married into a farm herself in the Buckeye Valley NRCD. Her on-the-ground experience and knowledge of conservation topics enable her to provide support to multiple stakeholders across the state.

Heather Baker, AACD Content Director, will provide marketing support in the form of outreach, workshop material development, written media development, and other writing or editing

support that is needed in relation to the project (i.e., commodities marketing developed by Local First AZ, see below). Heather has over 12 years' experience as a writer and editor for multiple consulting and publishing firms, including having spent five years as a proposal writer and content manager for PwC. Heather touches every written piece of information related to AACD that the public sees, from social media posts to website content.

<u>Technical Support</u>: Dr. Lamar Smith, Tim Grandy, and Chris Lowman (AACD) will provide technical support for planned climate-smart practices on non-Tribal lands.

- Dr. Lamar Smith will write conservation plans. A retired University of Arizona Professor from the School of Agriculture with over 50 years of experience teaching, consulting, and ranching, Dr. Smith's expertise and knowledge of Arizona's natural resources make him a key member of the technical support team.
- conservation planning field visits to participating producer operations. He has over 40 years
  of experience working with agricultural producers in Arizona through his job as a soil
  conservationist for the NRCS. He is a farmer in the Buckeye Valley NRCD and sits on his
  District's Board.
- Chris Lowman will provide GIS mapping support. He has over 20 years of experience and previously worked for the Arizona State Land Department for 14 years.

<u>Delane Atcitty, INCA Executive Director</u>: Delane will provide administrative oversight and fulfill an advisory role for INCA personnel and grant related activities. Delane will also facilitate grant related education and outreach activities. Delane is the current Executive Director for Indian Nations Conservation Alliance. As INCA's Deputy Director and Executive Director Delane has assembled an experienced and progressive team to aid tribal nations with natural resource concerns and conservation district establishment.

<u>Sadie Lister, INCA Conservationist:</u> Sadie will provide support and coordination for all grant related activities including identifying Tribal Farmers and Ranchers. Sadie is familiar with Tribal Conservation Districts in Arizona and has served 11 years as a Board Members to the Little Colorado River SWCD. Sadie's work experience includes providing technical assistance to Tribal producers in soil health, BMPs, back-yard gardening projects with socially disadvantage families and coordinating educational outreach workshops.

<u>Leander Thomas, INCA Outreach Coordinator</u>: Leander will provide Tribal outreach, workshop material development, and assist in monitoring. Leander has assisted INCA in generating relationships between Tribes and the Animal & Plant Health Inspection Service (APHIS) across the western United States in effort to develop emergency response plans for invasive plant species and foreign animal diseases. Also, Leander served as an Agricultural Educator for 12 years at Ganado High School in Ganado Arizona. In that capacity, Leander instructed Native American students in Introductory & Intermediate Agriculture, Agricultural Mechanics, Agriscience I & II, and Veterinary Science.

<u>Sisto Hernandez, INCA Southern Arizona Conservation District Coordinator</u>: Sisto will lead educational workshops, identify monitoring methods, and supervise the implementation of farm/range monitoring with cooperators on Tribal lands. For 15 years Sisto was the Rangeland Management Specialist for the White Mountain Apache Tribe (WMAT) in Arizona. During his

time in that role, Sisto re-initiated grazing permitting for the WMAT, established permanent range inventory/monitoring points on reservation range units, established inventory/monitoring protocol for the WMAT, and assisted Tribal ranchers in accessing NRCS and FSA programs. Sisto also represented the WMAT on the Mexican Wolf/Livestock Coexistence Council, where he served two terms as President. Sisto lead the group of council members with diverse opinions and backgrounds through controversial topics, supervised the development of the Mexican Wolf/Livestock Coexistence Plan, and wrote and delivered presentations to ranching, wolf advocacy, and associated groups to convey information regarding wolf and livestock coexistence.

### Timeline: January 2023–January 2028

- Year 1: Launch the Climate-SMART Ag BMPs program by holding approx. 6 Listening Sessions to understand what type of workshops are necessary to educate conventional producers (and to bridge the gap between early adopters and our conventional producers), to enroll our 20 early adopters, to develop resources around best management practices for CSAF in Arizona, begin to draft training guides and other workshop materials, begin marketing efforts (Local First AZ will lead marketing development and deployment for commodities), gather preliminary data in determining the soil strata within the state.
- Year 2: Hold approx. 6 workshops to educate about biological pest-management methods, begin to pay producers for implementing the CSAF practices, begin baseline sampling and GHG assessments, continue to develop educational guides and materials, continue marketing efforts.
- Years 3-4: Continue biologicals education, pay incentives to participating producers, continue soil sampling and assessments, develop local and national markets for CSAF practices, and continue to compile data and develop resources relating to the project.
- Year 5: Compile all data, complete incentive payouts, continue to develop local and national markets, develop, and finalize resources meant to educate about the project, and hold 2 final workshops to market project success and encourage CSAF practices adopters.
  - D. Plan to provide financial assistance for producers/landowners to implement CSAF practices.

\$1,800/acre will incentivize farmers to either continue to utilize the climate-smart practices on their operations or to implement CSAF practices to increase soil health and conserve water. AACD, with the help of its partners will hold educational workshops. AACD and INCA will provide technical assistance to producers.

E. Plan to enroll underserved and small producers, including the estimated number of underserved and small producers participating and associated dollar amounts anticipated to go directly to producers, in the form of technical and financial assistance.

We aim for 20 of our 40 producers to be Native Americans and historically underserved. Additionally, approximately 5-10 of the producers will be small producers (as part of our early adopters). Working closely with INCA to hold the first year Listening Sessions, we will hold 2 or 3 of the approx. 6 workshops in locations that will be convenient to Native American participant to try and attract Tribal producers to become early adopters. We will also utilize Conservation District regular meetings to hold workshops to engage conventional producers. We hope that half of our participant producers will be Native Americans. We will pay those that participate as early adopters \$500-\$1,000 for each workshop in which they share knowledge with conventional producers; farmers will receive \$1,800/acre (for no more than \$16,000/year) for 3 years to implement CSAF practices. Ranchers will receive up to \$16,000/year based on which CSAF practices are determined to be well-suited during the Listening Sessions. Tribal producers will receive \$16,000/practice/year for the same amount of time. The cap is \$16,000 per producer, not per practice.

### MEASUREMENT/QUANTIFICATION, MONITORING, REPORTING, AND VERIFICATION PLAN

A. Approach to greenhouse gas benefit quantification, including methodology approach consistent with the section titled "Quantification Requirements".

The AACD and INCA will conduct surveys on the 20 conventional producers for their on-farm or ranch management practices that influence greenhouse gas emissions. In the second year we will survey for baselines. In the fourth year we will visit the farm or ranch and have the landowner fill out the surveys. The surveys will then be given to our partners to assess the GHG reductions. Our partners will then use this information to drive the COMET-Farm model using "current" practices, then again using new CSAF practices to help inform their decision to implement the practices, as well as to quantify the potential GHG reductions through these implementations. The surveys will also inquire about current practices currently under contract with any federal/state agencies and other entities as well as any applications to entities to help cost/share or cover a current practice.

The soil strata within the state will be assessed and overlayed with the recruited farms to create a stratified random design. Soil samples will be collected from these 20 sites for carbon sequestration and soil health measurements. From each location, 20 soil samples will be collected and then thoroughly mixed to prepare a composite representative sample per site. Soil samples will be collected from the top 15cm soil profile, and along with soils, plant litter biomass will also be collected for overall carbon sequestration measurement. Sampling will be conducted in the late winter (January) and late fall (October) to measure cumulative carbon sequestration following CSAF practices. Then we will compare carbon sequestration in conventional systems with CSAF systems. Soil carbon fractions (total soil organic carbon, litter carbon content), bulk densities will be measured following the protocols described by Yang et al. (2019). Other necessary soil parameters such as soil temperature, soil moisture, texture, bulk density, pH, electrical conductivities, dissolved inorganic nitrogen fractions, and other labile pools of nutrients and organic matter will also be measured to support the modeling efforts and calculate environmental co-benefits. These same soil samples will be utilized to determine the carbon stability and test organic versus inorganic matter.

B. Approach to monitoring of practice implementation, including the anticipated number of farms and acres reached through project activities.

The Climate-SMART Ag BMPs project aims to engage 40 producers in this project, 20 of which will be implementing new CSAF practices. We anticipate that we will be able to target 200–1,400 acres (estimated 20 farmers with 1 acre or as many as 7 acres) and 400–1,000 head of livestock (estimated 20–50 cattle/20 ranchers). AACD and INCA technical assistance contractors/staff will monitor progress with participants twice per year to assess whether or not the chosen CSAF practices have continued through different growing seasons.

Organic certified producers will be exempt as they are monitored through the National Organic Program. All other producers will be asked to submit a yearly "Climate-Smart Plan" indicating the practices they employ. AACD and INCA technical contractors/staff will perform yearly on-farm inspections to verify and monitor that these practices.

C. Approach to reporting and tracking of greenhouse gas benefits including the anticipated GHG benefits per farm, per project, per commodity produced, per dollar expended, and the anticipated longevity of GHG benefits.

Cropland and rangeland management are expected to have  $0.3-1.6 \text{ Pg CO}_2(\text{eq}) \text{ yr}^{-1}$  in terms of potential mitigation globally (<u>Paustian et al. 2016</u>), however, the potential benefits at a farm level are highly dependent on the management system and location. Benefits are expected to be maintained as long as practices are maintained. Combining our GHG quantification methodology with our producer reports on practices implemented, we will calculate more specific estimates of GHG benefits generated per farm, and per project and will report the overall project benefits per dollar expended. We will also model future benefits based on our findings. The results of the project will be uploaded in the COMET-Planner.

D. Approach to verification of greenhouse gas benefits.

GHG reductions will be assessed by providing surveys to participating conventional producers when they enroll in this program and then after they have implemented CSAF practices. Verifying GHG benefits through an expansive monitoring program is cost-prohibitive and therefore not feasible for this project focused on implementation. The COMET-Farm model will be used to estimate the GHG benefits for CSAF practices implemented through this project. COMET-Farm is a process-based model that is widely applied in these kinds of GHG assessments (Paustian et al. 2016). We will also work to ensure the longevity of the practice implementation through our early adopter group.

E. Agreement to participate in the Partnerships Network (see entry below in "Considerations for Successful Projects").

ASU School of Engineering project partners agree to be an active participant in the Partnership Network, to share information and to attend all meetings.

### PLAN TO DEVELOP AND EXPAND MARKETS FOR CLIMATE-SMART COMMODITIES GENERATED AS A RESULT OF PROJECT ACTIVITIES

A. Any partnerships designed to market resulting climate-smart commodities.

Our Climate-SMART Ag BMPs program will create markets of varying scales for enrolled producers. The Organic Trade Association will connect buyers from across the US to Organic and Climate-Smart products. ASU Swette Center will guide producers who want to be certified organic through the process with training guides, to sell products through the well-established organic certified market. Partners Local First AZ and Pinnacle Prevention will support the local marketing of Climate-Smart commodities. Commodities include specialty crops, organic crops, grains, and livestock.

Within the first year of this project, Local First AZ and Pinnacle will develop a commodities marketing strategy. This includes:

- Outreach and engagement within Pinnacle's "Food Systems Network" of "niche" producers.
- Local First implementing a digital marketing campaign to support the consumption of

climate-friendly crops.

- Development of social media content, including imagery and text, to targeted audiences to build consumer awareness of climate-friendly crops and their commodities.
- Graphic design for logos, marketing materials, signage, packaging, and consumer-facing materials.
- Development of a Climate Smart microsite connected to Good Food Finder.
- Development of three 5-minute films for media consumption.
- All created content from Digital Marketing Specialists and graphic designers will be shared with all Local First network niches.

Approximately 60% of coverage of early adopters will be focused on farmers and ranchers of color, including indigenous growers. At least 5 replicable best practices will be shared with conventional growers to demonstrate the value of regenerative agriculture and their commodities.

B. A plan to track climate-smart commodities through the supply chain, if appropriate.

At each phase of the project, LFA will incorporate mechanisms to help gauge grower participation, increased awareness, and consumer interest. Mechanisms could include QR codes, hashtags, promo codes, and other tools that connect promotional efforts to measurable results for the climate-smart food campaign. LFA will develop a plan for measuring key performance indicators like event participation, social media engagement, traffic to Good Food Finder's landing pages tied to the Climate-Smart Ag BPMs initiative, as well as traffic and money spent on the "Shop Local" eCommerce experience. Market returns could also be a higher price point for climate smart ag products versus the price point for conventional ag products. Pinnacle Prevention will track the value of climate smart commodities that participate in food access programs that the organization helps to administer at farmers markets, farm stands, mobile markets, small grocery outlets and community supported agriculture models.

C. Estimated economic benefits for participating producers including market returns.

We estimate economic benefits of \$16,000/ year over 3 years per producer with each producer receiving an economic benefit of \$48,000 for participation in this pilot project. Additionally, the most recent data from the USDA Economic Research Service (2010) found that for almost all retail groups organic price premiums were over 20%. For producers who transition, we estimate over a 20% increase in market benefits. For producers who opt to adopt climate-smart practices without organic certification we estimate the premium will fall between conventional and organic prices with an average premium of 10% based on the above numbers.

D. Post-project potential, including anticipated ability to scale project activities, likelihood of long-term viability beyond project period, and ability to inform future USDA actions to encourage climate-smart commodities.

As project progress is tracked, we will determine the viability of continuing the program. The goal is to engage enough producers that will see positive, impactful results, that the continuation of the program will be sustained through the commitment of CSAF practices adopters to encourage and share knowledge with other producers across the state. Findings could be shared on a national level at events like the National Association of Conservation Districts annual conference, to encourage Southwestern, arid states to adopt these practices as well. To continue this program in the future, we will seek additional grant funds as well.

CLIMATE SMART METRICS TRACKING		Year 1									
BENCHMARK/MILESTONE	Associated Activity, if Applicable	Q1 Estimate	Q1 Actual	Q2 Estimate	Q2 Actual	Q3 Estimate	Q3 Actual	Q4 Estimate	Q4 Actual	Y1 Cumulative Estimate	Y1 Cumulative Actua
Number of Producers	Producers Enrolled	3		7		12		20		20	0
Number of Underserved Producers	Producers Enrolled	1		2		4		8		8	0
Number of Acres Involved	Final Program	2000		14000		24000		40000		40000	0
Number of Head Involved (if applicable)	If Applicable	0		0		0		0		0	0
Dollars Provided to Producers via Tech Support		0		50000		100000		150000		150000	0
Dollars Provided to Producers via Stipends	16,000 per producer * 40 Producers	0		o		0		0		0	0
GHG Benefits (Metric Tons of CO2e Reduced or Sequestered		4.5		10.5		18		30		30	0
Number of New Marketing Channels Established	Videos and Digital Markets for Commodities	0		0		0		3		3	0
Number of Marketing Channels Expanded	Social Media/Education/Website	4		8		12		16		16	0
Number of Measurement Tools Utilized		2		2		2		2		2	0
OTHER REQUIRED BENCHMARKS THAT MAY BE QUANTITATIVE OR QUALITATIVE										0	
Outreach Training & Other Tech Assistance	Listening Sessions	1		2		4		6		6	0
Outreach Training & Other Tech Assistance	Peer to Peer Workshops	0		0		0		0		0	0
Other MMRV and Supply Chain Traceability Attributes		0		ō		0		1		1	Ō
Demonstrated Engagement of Major Partners	Coordination across Partners	12		12		12		12		12	0
Climate Smart Technologies Employed		2		2		2		2		2	0
AACD UNIQUE ITEMS										0	
Number of Early Adopter/ITEK Producers Signed UP		3		4		5		8		8	0
Number of Conventional/Traditional Producers Signed UP PROJECTED EXPENSES		3		4		5		8		8	0
Total Direct Costs		\$ 17,591		112,208		\$ 125,208		\$ 211,203		\$ 466,210	c .
Total Indirect Costs TOTAL BUDGET		\$ 12,945		5 12,945		\$ 12,945		\$ 12,945		\$ 51,780	

LIMATE SMART METRICS TRACKING		Year 2									
BENCHMARK/MILESTONE	Associated Activity, if Applicable	Q1 Estimate	Q1 Actual	02 Estimate	Q2 Actual	Q3 Estimate	Q3 Actual	Q4 Estimate	Q4 Actual	Y2 Cumulative Estimate	V2 Cumulative Actua
Number of Producers	Producers Enrolled	23		27		32		40		40	0
Number of Underserved Producers	Producers Enrolled	10		10		10		10		10	0
Number of Acres Involved	Final Program	43000		47000		50000		52000		52000	0
Number of Head Involved (if applicable)	If Applicable	0		0		0		0		0	0
Dollars Provided to Producers via Tech Support		200000		250000		300000		350000		350000	0
Dollars Provided to Producers via Stipends	16,000 per producer * 40 Producers	160000		320000		480000		640000		640000	0
GHG Benefits (Metric Tons of CO2e Reduced or Sequestered		34.5		40.5		48		60		60	0
Number of New Marketing Channels Established	Videos and Digital Markets for Commodities	3		3		3		6		6	0
Number of Marketing Channels Expanded	Social Media/Education/Website	16		20		24		28		28	0
Number of Measurement Tools Utilized		3		3		3		3		3	0
OTHER REQUIRED BENCHMARKS THAT MAY SE QUANTITATIVE OR QUALITATIVE										0	
Dutreach Training & Other Tech Assistance	Listening Sessions	8		10		12		14		14	0
Outreach Training & Other Tech Assistance	Peer to Peer Workshops	1		3		5		6		6	0
Other MMRV and Supply Chain Traceability Attributes		1		1		1		2		ž	0
Demonstrated Engagement of Major Partners	Coordination across Partners	18		18		18		18		18	0
Climate Smart Technologies Employed		4		4		4		4		4	0
AACD UNIQUE ITEMS										0	
Number of Early Adopter/ITEK Producers Signed UP		10		10		12		20		20	0
Number of Conventional/Traditional Producers Signed UP		10		10		12		20		20	0
PROJECTED EXPENSES										100 × 100 × 100 × 100 × 100	
Total Direct Costs		\$ 371,203	\$	~~~~~~		\$ 371,203		\$ 371,203		\$ 1,484,812	- (J)
Total Indirect Costs		\$ 12,945	\$	12,945		\$ 12,945		\$ 12,945		\$ 51,780	\$

CLIMATE SMART METRICS TRACKING		Year 3									
BENCHMARK/MILESTONE	Associated Activity, if Applicable	Q1 Estimate	Q1 Actual	Q2 Estimate	Q2 Actual	Q3 Estimate	Q3 Actual	Q4 Estimate	Q4 Actual	V3 Cumulative Estimate	Y3 Cumulative Actua
Number of Producers	Producers Enrolled	40		40		40		40		40	0
Number of Underserved Producers	Producers Enrolled	10		10		10		10		10	0
Number of Acres Involved	Final Program	52000		52000		52000		52000		52000	0
Number of Head Involved (if applicable)	If Applicable	0		0		0		0		0	0
Dollars Provided to Producers via Tech Support	a tradition	400000		450000		500000		550000		550000	0
Dollars Provided to Producers via Stipends	16,000 per producer * 40 Producers	800000		960000		1120000		1280000		1280000	0
GHG Benefits (Metric Tons of CO2e Reduced or Sequestered		60		60		60		60		60	0
Number of New Marketing Channels Established	Videos and Digital Markets for Commodities	6		6		6		9		9	0
Number of Marketing Channels Expanded	Social Media/Education/Website	32		36		40		40		40	0
Number of Measurement Tools Utilized		3		3		3		3		3	0
OTHER REQUIRED BENCHMARKS THAT MAY BE QUANTITATIVE OR QUALITATIVE										0	
Outreach Training & Other Tech Assistance	Listening Sessions	16		16		16		16		16	0
Outreach Training & Other Tech Assistance	Peer to Peer Workshops	6		6		6		6		6	0
Other MMRV and Supply Chain Traceability Attributes		2		2		2		2		2	0
Demonstrated Engagement of Major Partners	Coordination across Partners	22		22		22		22		22	0
Climate Smart Technologies Employed		6		6		6		6		6	0
AACD UNIQUE ITEMS										0	
Number of Early Adopter/ITEK Producers Signed UP		20		20		20		20		20	0
Number of Conventional/Traditional Producers Signed UP		20		20		20		20		20	0
PROJECTED EXPENSES											
Total Direct Costs		\$ 311,913		\$ 311,913		\$ 311,913		\$ 311,913		\$ 1,247,652	112011
Total Indirect Costs		\$ 12,945		\$ 12,945		\$ 12,945		\$ 12,945		\$ 51,780	0
TOTAL BUDGET											

CLIMATE SMART METRICS TRACKING						Year 4			
BENCHMARK/MILESTONE	Associated Activity, if Applicable		Q3 Actual Q2						
Number of Producers	Producers Enrolled	40		40	40		40	40	0
Number of Underserved Producers	Producers Enrolled	10		10	10		10	10	0
Number of Acres Involved	Final Program	52000		52000	52000		52000	52000	0
Number of Head Involved (if applicable)	If Applicable	0		0	0		0	0	0
Dollars Provided to Producers via Tech Support		600000	0	600000	600000		600000	600000	0
Dollars Provided to Producers via Stipends	16,000 per producer * 40 Producers	1440000	1	600000	1760000		1920000	1920000	0
SHG Benefits (Metric Tons of CO2e Reduced or Sequestered		60		60	60		60	60	0
Number of New Marketing Channels Established	Videos and Digital Markets for Commodities	9		9	9		12	12	0
Number of Marketing Channels Expanded	Social Media/Education/Website	40		40	40		40	40	0
Number of Measurement Tools Utilized		3		3	3		3	3	0
OTHER REQUIRED BENCHMARKS THAT MAY BE QUANTITATIVE OR QUALITATIVE								0	
Outreach Training & Other Tech Assistance	Listening Sessions	16		16	16		16	16	0
Outreach Training & Other Tech Assistance	Peer to Peer Workshops	6		6	6		6	6	0
Other MMRV and Supply Chain Traceability Attributes		2		2	2		2	2	0
Demonstrated Engagement of Major Partners	Coordination across Partners	26		26	26		26	26	0
Climate Smart Technologies Employed		8		8	8		8	8	0
AACD UNIQUE ITEMS								0	
Number of Early Adopter/ITEK Producers Signed UP		20		20	20		20	20	0
Number of Conventional/Traditional Producers Signed UP		20		20	20		20	20	0
PROJECTED EXPENSES									
Total Direct Costs		\$ 333,557	\$	333,557	\$ 278,821		\$ 278,821	\$ 1,224,756	
Total Indirect Costs		\$ 12,945	\$	12,945	\$ 12,945		\$ 12,945	\$ 51,780	\$

CLIMATE SMART METRICS TRACKING		Year S										
BENCHMARK/MILESTONE	Associated Activity, if Applicable	Q1 Estimate	Q1 Actual	Q2 Estimate	Q2 Actual	Q3 Estimate	Q3 Actual	Q4 Estimate	Q4 Actual	Y5 Cumulative Estimate	Y5 Cumulative Actua	
Number of Producers	Producers Enrolled	40		40		40		40		40	0	
Number of Underserved Producers	Producers Enrolled	10		10		10		10		10	0	
Number of Acres Involved	Final Program	52000		52000		52000		52000		52000	0	
Number of Head Involved (if applicable)	If Applicable	0		0		0		0		0	0	
Dollars Provided to Producers via Tech Support		600000		600000		600000		600000		600000	0	
Dollars Provided to Producers via Stipends	16,000 per producer * 40 Producers	1920000		1920000		1920000		1920000		1920000	0	
GHG Benefits (Metric Tons of CO2e Reduced or Sequestered		60		60		60		60		60	0	
Number of New Marketing Channels Established	Videos and Digital Markets for Commodities	12		12		12		12		12	0	
Number of Marketing Channels Expanded	Social Media/Education/Website	40		40		40		40		40	0	
Number of Measurement Tools Utilized		3		3		3		3		3	0	
OTHER REQUIRED BENCHMARKS THAT MAY BE QUANTITATIVE OR QUALITATIVE										0		
Outreach Training & Other Tech Assistance	Listening Sessions	18		18		18		18		18	0	
Outreach Training & Other Tech Assistance	Peer to Peer Workshops	6		6		6		6		6	0	
Other MMRV and Supply Chain Traceability Attributes		2		2		2		2		ž	0	
Demonstrated Engagement of Major Partners	Coordination across Partners	28		28		28		28		28	0	
Climate Smart Technologies Employed		8		8		8		8		8	0	
AACD UNIQUE ITEMS										0		
Number of Early Adopter/ITEK Producers Signed UP		20		20		20		20		20	0	
Number of Conventional/Traditional Producers Signed UP PROJECTED EXPENSES		20		20		20		20		20	0	
Total Direct Costs		\$ 55,037	20	\$ 55,037		\$ 55,037		\$ 55,037		\$ 220,148	š -	
Total Indirect Costs		\$ 12,946		\$ 12,945		\$ 12,945		\$ 12,945		\$ 51,781		
TOTAL BUDGET		÷ 11,540								- 31,701	জন্ম ব	

CLIMATE SMART METRICS TRACKING	PROGR	AM TOTAL	
BENCHMARK/MILESTONE	Associated Activity, if Applicable	Estimate	Actual
Number of Producers	Producers Enrolled	40	0
Number of Underserved Producers	Producers Enrolled	10	0
Number of Acres Involved	Final Program	52000	0
Number of Head Involved (if applicable)	If Applicable	0	0
Dollars Provided to Producers via Tech Support	- 12CU	600000	0
Dollars Provided to Producers via Stipends	16,000 per producer * 40 Producers	1920000	0
GHG Benefits (Metric Tons of CO2e Reduced or Sequestered		60	0
Number of New Marketing Channels Established	Videos and Digital Markets for Commodities	12	0
Number of Marketing Channels Expanded	Social Media/Education/Website	40	0
Number of Measurement Tools Utilized		3	0
OTHER REQUIRED BENCHMARKS THAT MAY BE QUANTITATIVE OR QUALITATIVE		0	
Outreach Training & Other Tech Assistance	Listening Sessions	18	0
Outreach Training & Other Tech Assistance	Peer to Peer Workshops	6	0
Other MMRV and Supply Chain Traceability Attributes		2	Ō
Demonstrated Engagement of Major Partners	Coordination across Partners	28	0
Climate Smart Technologies Employed		8	0
AACD UNIQUE ITEMS		0	
Number of Early Adopter/ITEK Producers Signed UP		20	0
Number of Conventional/Traditional Producers Signed UP		20	0
PROJECTED EXPENSES			
Total Direct Costs		\$ 4,643,578	35 -
Total Indirect Costs		\$ 258,901	. \$ -
TOTAL BUDGET		\$ 4,902,479	5 -

### **Climate-Smart Practices and Limitations**

NRCS Practice Code	Practice Name	
327	Conservation Cover	
328	Conservation Crop Rotation	
329	Residue and Tillage – No Till	
340	Cover Crop	
345	Residue and Tillage Management, Reduced Till	
372	Combustion System Improvement	
376	Field Operations Emissions Reduction	
484	Mulching	
528	Prescribed Grazing	
590	Nutrient Management	
670	Energy Efficient Lighting System	

Climate-Smart practices under this grant shall be limited to the following practices:

All practices applied under this grant will follow NRCS practice standards unless noted below:

N/A

ATTACHMENT - DATA DICTIONARY



Partnerships for Climate-Smart Commodities Data Dictionary for Recipients February 2023 Version 1.0

USDA is an equal opportunity lender, provider and employer.



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### **Overview of Reporting Requirements**

Grant recipients are required to submit reports to document their performance under the Partnerships for Climate-Smart Commodity funding opportunity. These submissions will be required to use the Microsoft Excel workbook templates provided by USDA. The workbooks contain a series of worksheets that collect data in a standardized format to ensure data quality and allow for aggregation and summary of this information. The entire workbook must be submitted quarterly, with updates to all applicable worksheets. This guide is divided into three sections. The Overview of Reporting Requirements section summarizes the layout of the reporting workbook and presents the data elements included in each worksheet. It also describes additional documents that must be submitted to supplement the performance reports. The Data Definitions section provides descriptions and allowable response options for each data element. The guide also indicates whether each data element is required, applicable at times, or optional; as well as how frequently each data element must be updated. Finally, the Appendices contain practice and commodity lists that will be used for these reports. Reporting is necessary for USDA oversight of this effort. The data elements required for inclusion in the quarterly performance reports allow USDA to conduct selected audits to review whether producers are receiving federal funds from multiple sources for the same purpose; to determine whether GHG benefits from implementation of climate-smart agriculture and forestry (CSAF) practices are being estimated accurately; and for other purposes deemed appropriate by USDA.

The reporting worksheets collect information at four levels: project, partner, producer, and field. Descriptions of each level:

**Project level**: Information about activities and impacts at a whole project/aggregate level (i.e., reflecting all activities under the grant agreement). Some project-level reporting is further subdivided by commodity type or a combination of commodity and CSAF practice(s) (commodity x practice). **Partner level:** Information about activities related to a single organization (recipient, subrecipient, contractor, or other partner) within a project.

**Producer level**: Information about individual producers who have one or more farms enrolled in a project. **Field level**: Information about individual fields enrolled in a project.

Certain data elements are required to be reported for each producer and field enrolled in a project. In order to minimize the burden associated with data collection and to enable USDA to match data to existing records, these producer- and field-specific records must use the producer's established FSA Farm, Tract and Field IDs, and report the State and County associated with the Farm ID. Associated data entered in conjunction with these data elements, such as Producer Name, must match the data contained in the customer's Business Partner record, and the Farm Operating Plan in Business File for that Farm ID. Disclosure of this information is protected under Section 1619 of the Food, Conservation, and Energy Act of 2008 (PL 110- 246), 7 U.S.C. 8791. Additionally, Departmental Regulation 4370-001 provides USDA's policies for collecting demographic data, including race, ethnicity and gender. Providing demographic information is voluntary and at the discretion of the customer. Demographic information is used by USDA for statistical purposes only and will not be used to determine an applicant's eligibility for programs or services for which they apply.

**Note:** For purposes of this guide, "farm" refers to the operation from which climate-smart commodities are produced and may represent farms, ranches, forests or other operations. Similarly, "field" refers to the individual land units at which climate-smart practices are being implemented to produce climate-smart commodities and may represent lots, farmsteads or other units, depending on the type of operation and commodity. The use of "Farm", "Tract" and "Field" align with the FSA definitions; for example, "A field is a part of a farm that is separated from the balance of the farm by a permanent boundary, such as; fences, permanent waterways, woodlands, croplines in cases where farming practices make it probable that this cropline is not subject to change, and other similar features."

The following tables list the data elements included in each reporting worksheet, along with a brief description of each item.

#### **Project Summary**

These data will be collected about each project. Cumulative results are reported each quarter. Report last quarter's entry if there has been no change in this quarter.

Data element name	Description	Frequency
Commodity type	Type of commodity(ies) incentivized by the project	Quarterly
Commodity sales	Indicates sales of the commodity(ies) related to the project occurred this quarter	Quarterly
Farms enrolled	Indicates enrollment activities occurred this quarter	Quarterly
GHG calculation methods	Methods used to calculate greenhouse gas (GHG) benefits	Quarterly
GHG cumulative calculation	Method used to calculate cumulative GHG benefits	Quarterly
Cumulative GHG benefits	Whole project estimate of total GHG (CO2e) emission reductions	Quarterly
Cumulative carbon stock	Whole project estimate of total carbon sequestration	Quarterly
Cumulative CO2 benefit	Whole project estimate of total CO2 emission reductions	Quarterly
Cumulative CH4 benefit	Whole project estimate of total CH4 emission reductions	Quarterly
Cumulative N2O benefit	Whole project estimate of total N2O emission reductions	Quarterly
Offsets produced	Amount of carbon offsets produced by project	Quarterly
Offsets sale	Name of marketplace where carbon offsets were sold	Quarterly
Offsets price	Price of carbon in offset sales	Quarterly
Insets produced	Amount of carbon insets produced by project	Quarterly
Cost of on-farm TA	Cost of on-farm technical assistance (TA) provided to producers	Quarterly
MMRV cost	Cost of measurement, monitoring, reporting, and verification (MMRV) activities	Quarterly
GHG monitoring method	Methods used by project to monitor GHG benefits (up to 5)	Quarterly
GHG reporting method	Methods used by project to report on GHG benefits (up to 5)	Quarterly
GHG verification method	Methods used to verify GHG benefits (up to 5)	Quarterly

Table 1. Project Summary elements

#### Partner Activities

These data will be collected at the project level. Each row in this worksheet will represent one organization involved in the project, including the recipient and all contributing partners. A partner is any organization that is receiving project funds or providing matching contributions (funds or in-kind contributions) to the project. While the recipient must complete one row for their own organization, not all data elements apply to the recipient. These exceptions are noted in the detailed descriptions of the specific elements in the *Data Definitions* section of this guide. Data are reported cumulatively each quarter. Report last quarter's entry if there has been no change in this quarter.

Data element name	Description	Frequency
Partner ID	Unique ID for each partner	One-time
Partner name	Name of partner organization	One-time
Partner type	Type of organization	One-time
Partner POC	Partner point of contact name	As applicable
Partner POC email	Partner point of contact email	As applicable
Partnership start date	Start of partnership on project	One-time
Partnership end date	End of partnership on project	As applicable
New partnership	Indicator for partner organizations that have no prior work with the recipient	As applicable
Partner total requested	Total amount requested to date by partner from recipient	Quarterly
Total match contribution	Total amount of match contribution by partner to date	Quarterly
Total match incentives	Total amount of match contribution by partner for incentives	Quarterly
Match type	Top 3 types of match contribution by partner, other than incentives	Quarterly
Match amount	Value of match contributions by type	Quarterly
Training provided	Top 3 types of training provided to the partner through project	Quarterly
Activity by partner	Top 3 types of activities provided by this partner to producers or other partners	Quarterly
Activity cost	Approximate cost per activity type provided by partner to producers or other partners	Quarterly
Products supplied	Names of products supplied to producers as part of project activities or incentives	Quarterly
Product source	Supplier or source of products supplied to producers as part of project activities or incentives	Quarterly

#### Table 2. Partner Activities elements

#### **Marketing Activities**

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These data will be collected at the project level. Each row in this worksheet will correspond to one commodity for which the project enrolls fields and one marketing channel used to sell that commodity by the project or producers enrolled in the project. Data are reported for the current quarter and are not cumulative. If no sales of the commodity were reported during a quarter, do not complete this worksheet for that quarter.

Data element name	Description	Frequency
Commodity type	Type of commodity incentivized by the project	Quarterly
Marketing channel type	Type of marketing channels used	Quarterly
Number of buyers	Number of buyers per marketing channel	Quarterly
Names of buyers	Names of buyers in the marketing channel	Quarterly
Marketing channel geography	Geography of marketing channel	Quarterly
Value sold	Value of commodity sold by marketing channel	Quarterly
Volume sold	Volume of commodity sold by marketing channel	Quarterly
Price premium	Price premium of commodity by marketing channel	Quarterly
Price premium to producer	Percent of price premium that goes to the producer	Quarterly
Product differentiation method	Top 3 types of product differentiation methods used	Quarterly
Marketing method	Top 3 types of marketing methods used	Quarterly
Marketing channel identification method	Top 3 ways marketing channel was identified	Quarterly
Traceability method	Top 3 types of supply chain traceability methods used	Quarterly

### Producer Enrollment

These data will be collected at the producer level about each farm enrolled in the project. In this worksheet, each row will correspond to one farm that has at least one field enrolled in the project. Data are reported when a producer first enrolls one or more fields in the project. If a producer is enrolled in the project for multiple years, review the farm characteristics each time a new contract is signed and provide any necessary updates. The quarterly submission should contain information about each farm initially enrolled in the project during that quarter and for updates to farms that have re-enrolled during that quarter, as applicable. If no farms are enrolled during that quarter, do not complete this worksheet for that quarter.

Data element name	Description	Frequency
Farm ID	Unique Farm ID assigned by FSA	
State or territory	State name (must match FSA farm enrollment data)	
County of residence	County name (must match FSA farm enrollment data)	
Producer data change	Indicator that producer data was updated at re-enrollment	As applicable
Producer start date	Contract start date	Enrollment
Producer name	Name of primary operator	Enrollment
Underserved status	Indicator the primary operator is considered underserved and/or a small producer	Enrollment
Total area	Total area of enrolled operation	Annual
Total crop area	Total crop area in enrolled operation enrolled	Annual
Total livestock area	Total livestock confinement, pasture and rangeland in enrolled operation	Annual
Total forest area	Total forest area in enrolled operation	Annual
Livestock type	Top 3 types of livestock on enrolled operation	Annual
Livestock head	Total livestock currently managed (by type)	Annual
Organic farm	Indicator that part of the farm is certified or transitioning organic	Annual
Organic fields	Indicator that any of the enrolled fields are certified or transitioning organic	Annual
Producer motivation	Motivation for participation	Annual
Producer outreach	Top 3 types of outreach provided to producer	Annual
CSAF experience	Indicator of prior implementation of CSAF practices at this farm	Annual
CSAF federal funds	Indicator of prior receipt of federal funds for CSAF practices	Annual
CSAF state or local funds	Indicator of prior receipt of state funds for CSAF practices	Annual
CSAF nonprofit funds	Indicator of prior receipt of nonprofit funds for CSAF practices	Annual
CSAF market incentives	Indicator of prior receipt of market incentives for CSAF practices	Annual

#### Table 4. Producer Enrollment elements

### Field Enrollment

These data will be collected about each field enrolled in the project. In this worksheet, each row corresponds to one field x commodity combination enrolled in the project. Generally, data are reported once for each field, at its initial enrollment. The quarterly submission should contain information about each field initially enrolled in the project during that quarter. If no fields are enrolled during that quarter, do not complete this worksheet for that quarter. If a field is enrolled for multiple years, any relevant changes, such as a new ID number or changes to the commodity or practice combinations should be entered in this worksheet during the quarter it is re-enrolled, or as applicable.

Data element name	Description
Farm ID	Unique Farm ID assigned by FSA
Tract ID	Unique Tract ID assigned by FSA
Field ID	Unique Field ID assigned by FSA
State or territory of field	State name
Physical County of field	Physical county name must match FSA farm records
Prior Field ID	Previous Field ID when reconstitution of farm results in new Field IDs
Field data change	Indicator that field data has changed from initial enrollment
Contract start date	Start date of contract
Total field area	Size of enrolled field
Commodity category	Category of commodity(ies) produced
Commodity type	Type of commodity(ies) produced
Baseline yield	Average yield of commodity in 3 years prior to enrollment
Baseline yield location	Location for which baseline yield is provided
Field land use	Most common land use in field in past 3 years
Field irrigated	Most common irrigation type in field in past 3 years
Field tillage	Most common tillage in field in past 3 years
Practice past extent - farm	Extent of operation that implemented this practice prior to project enrollment
Field any CSAF practice	Indicator for prior CSAF practices in this field in past 3 years
Practice past use - this field	Indicator of prior use of this practice in this field in the past 3 years
Practice type	CSAF practice(s) that will be implemented in enrolled field (up to 7)
Practice standard	Organization that developed CSAF practice standard implemented in field
Planned practice implementation year	Year that practice is planned to be implemented
Practice extent	Area or number of animals for which practice is implemented
Follow-on questions	Follow-on questions by practice type (see Table 11)

### Farm Summary

These data will be collected about each farm enrolled in the project. In this worksheet, each row will correspond to one farm that has at least one field enrolled in the project. The quarterly submission should contain updates to any data elements that have changed for each farm enrolled in the project during that quarter. If there are no changes from the previous quarter, do not complete this worksheet for that quarter. Data are not cumulative.

Data element name	Description	Frequency
Farm ID	Unique Farm ID assigned by FSA	
State or territory	State name	
County of residence	County name	
Producer TA received	Type of technical assistance provided to producer	Quarterly
Producer incentive amount	Total financial incentive provided to the producer	Quarterly
Incentive reason	Top 4 reason(s) for financial incentives provided to producer	Quarterly
Incentive structure	Top 4 units on which financial incentives are structured	Quarterly
Incentive type	Top 4 type(s) of financial incentives provided to producer	Quarterly
Payment on enrollment	Extent of payment provided to producer upon enrollment	Quarterly
Payment on implementation	Extent of payment provided to producer upon implementation of CSAF practices	Quarterly
Payment on harvest	Extent of payment provided to producer upon harvest or slaughter	Quarterly
Payment on MMRV	Extent of payment provided to producer upon reporting or verification	Quarterly
Payment on sale	Extent of payment provided to producer upon sale of commodity	Quarterly

Table 6. Farm Summary elements

### **Field Summary**

These data will be collected about each field enrolled in the project for a commodity x practice(s) combination. In this worksheet, each row will correspond to one field x commodity x practice(s) combination enrolled in the project. Data for each field will be reported quarterly and are not cumulative. Report data for any elements that have an update in that quarter. Greenhouse gas benefit estimates must be entered upon practice completion or annually, as appropriate. If there are no changes from the previous quarter, do not complete this worksheet for that quarter. This worksheet includes a section to report the "official" estimate of GHG benefits – amounts of greenhouse gas emissions reduced and carbon sequestered – for the field. These quantities refer to the estimates that are used to calculate the project's aggregate impact (reported in Table 1). Tables 8 and 9 are used to report alternate estimates of the field-level GHG benefits when additional methods are used to model (Table 8) or measure (Table 9) these impacts. Any field that can use COMET-Planner must submit those results, either as the official or alternate model.

Data element name	Description	Frequency
Farm ID	Unique Farm ID assigned by FSA	
Tract ID	Unique Tract ID assigned by FSA	
Field ID	Unique Field ID assigned by FSA	
State or territory of field	State name	
County of field	County name	
Commodity type	Type of commodity produced from field	Quarterly
Practice type	Type of practice(s) incentivized in field (up to seven)	Quarterly
Date practice complete	Date that practice implementation is certified complete	Quarterly
Contract end date	End date of contract	Quarterly
MMRV assistance provided	Indicator that MMRV assistance is provided to field	Quarterly
Marketing assistance provided	Indicator that marketing assistance provided for commodity from field	Quarterly
Incentive per acre or head	Indicator that a per acre/head incentives is provided for the CSAF practice(s) on this field	Quarterly
Field commodity value	Value of commodity produced from field	Quarterly
Field commodity volume	Volume of commodity produced from field	Quarterly
Cost of implementation	Total cost of practice implementation in field	Quarterly
Cost coverage	Percent of total cost of implementation of practice covered by project incentives	Quarterly
Field GHG monitoring	Methods used to monitor GHG benefits in field (up to 3)	Quarterly
Field GHG reporting	Methods used to report on GHG benefits for field (up to 3)	Quarterly
Field GHG verification	Methods used to verify GHG benefits for field (up to 3)	Quarterly
Field GHG calculations	Methods used to calculate GHG benefits for field	Quarterly
Field official GHG calculation	Method used to calculate official GHG benefits for field	Quarterly
Field official GHG ER	Official estimate of total GHG emission reductions for field	Quarterly
Field official carbon stock	Official estimate of total carbon sequestration for field	Quarterly
Field official CO2 ER	Official estimate of total CO2 emission reductions for field	Quarterly
Field official CH4 ER	Official estimate of total CH4 emission reductions for field	Quarterly
Field official N2O ER	Official estimate of total N2O emission reductions for field	Quarterly
Field offsets produced	Amount of carbon offsets produced in field	Quarterly
Field insets produced	Amount of carbon insets produced in field	Quarterly
Other field measurements	Indicator that field data was collected for reasons other than GHG benefit estimation	Quarterly

#### Table 7. Field Summary elements

### GHG Benefits - Alternate Modeled

If greenhouse gas benefits are modeled for the same field using multiple methods, the results for the alternate models are reported in this worksheet. The "alternate" models refer to those model results that were not used in the calculation of the project's aggregate impact (as reported in Table 1). Any field that can use COMET-Planner must submit those results, either as the official or alternate model. These data will be collected about the modeled GHG benefits for each field x commodity x practice(s) combination. In this worksheet, each row will correspond to one field enrolled in the project. Data are not cumulative. Each quarterly submission should include information for all fields that have new modeled data. Greenhouse gas benefit estimates must be entered upon practice completion or annually, as appropriate.

Data element name	Description	Frequency
Farm ID	Unique Farm ID assigned by FSA	
Tract ID	Unique Tract ID assigned by FSA	
Field ID	Unique Field ID assigned by FSA	
State or territory of field	State name	
County of field	County name	
Commodity type	Type of commodity(ies) produced from the field (up to 6)	Annual
Practice type	Type of practice(s) incentivized in field (up to 7)	Annual
GHG model	Model used to calculate GHG benefits	Annual
Model start date	Start date of model run	Annual
Model end date	End date of model run	Annual
Total GHG benefits estimated	Estimate of total GHG benefits for field	Annual
Total carbon stock estimated	Estimate of total change in carbon stock for field	Annual
Total CO2 estimated	Estimate of total CO2 emission reductions for field	Annual
Total CH4 estimated	Estimate of total CH4 emission reductions for field	Annual
Total N2O estimated	Estimate of total N2O emission reductions for field	Annual

Table 8. GHG Benefits - Alternate Modeled elements

### GHG Benefits - Measured

Projects must report the results of any carbon stock or greenhouse gas emission measurements in this worksheet. These data will be collected at the field level. Each row will represent a separate measurement method used to calculate GHG benefits for a given field. Data are reported once per year of measurement and are not cumulative. Each quarterly submission should include information for any field for which there are new soil samples or new calculations of annual GHG benefits based on actual measurements.

#### Data element name Description Frequency Farm ID Unique Farm ID assigned by FSA Tract ID Unique Tract ID assigned by FSA Field ID Unique Field ID assigned by FSA State name State County County name GHG measurement method Method of measurement Annual Lab name Entity that conducted analysis Annual Measurement start date Start date of measurements Annual Measurement end date End date of measurements Annual Total CO2 reduction calculated Calculation of total CO2 reduction Annual Total carbon stock change calculated Calculation of change in carbon stock Annual Total CH4 reduction calculated Calculation of total CH4 reduction Annual Total N2O reduction calculated Calculation of total N2O reduction Annual Soil sample result Numeric result from soil sample Annual Type of analysis conducted Annual Measurement type

#### Table 9. GHG Benefits - Measured data elements

#### Additional Environmental Benefits

Projects that track additional environmental benefits (e.g., water quality improvements) from enrolled fields report results in this worksheet. These data will be collected about each field. Each row in this worksheet will correspond to an enrolled field. Data are not cumulative. Estimates of environmental benefits must be entered upon practice completion or annually, as appropriate.

#### Table 10. Additional Environmental Benefits elements

Data element name	Description	Frequency
Farm ID	Unique Farm ID assigned by FSA	
Tract ID	Unique Tract ID assigned by FSA	
Field ID	Unique Field ID assigned by FSA	
State	State name	
County	County name	
Environmental benefits	Indicator that project tracks other environmental benefits	Annual
Reduction in nitrogen loss	Indicator that project tracks reductions in nitrogen loss	Annual
Amount	Amount	Annual
Purpose	Purpose of tracking those co-benefits	Annual
Reduction in phosphorus loss	Indicator that project tracks reductions in phosphorus loss	Annual
Amount	Amount	Annual
Purpose	Purpose of tracking those co-benefits	Annual
Other water quality	Indicator that project tracks other water quality improvements	Annual
Туре	Type of water quality metric being tracked	Annual
Amount	Amount	Annual
Purpose	Purpose of tracking those co-benefits	Annual
Water quantity	Indicator that project tracks reduced water use	Annual
Amount	Amount	Annual
Purpose	Purpose of tracking those co-benefits	Annual
Reduced erosion	Indicator that project tracks reductions in soil erosion	Annual
Amount	Amount	Annual
Purpose	Purpose of tracking those co-benefits	Annual
Reduced energy use	Indicator that project tracks reductions in energy use	Annual
Amount	Amount	Annual
Purpose	Purpose of tracking those co-benefits	Annual
Avoided land conversion	Indicator that project tracks reductions in land conversion	Annual
Amount	Amount	Annual
Purpose	Purpose of tracking those co-benefits	Annual
Improved wildlife habitat	Indicator that project tracks improvements in wildlife habitat	Annual
Amount	Amount	Annual
Purpose	Purpose of tracking those co-benefits	Annual

#### Supplemental Data Submission

Project MMRV Plan

Definition of MMRV elements:

**Measurement**: Quantification of the greenhouse gas benefits (reduction or capture) using mathematical models and/or direct physical measurements in the field

**Monitoring**: Ongoing review and confirmation that the climate-smart practice has been implemented according to the agreed upon standard and documentation of any changes in the site, implementation, or GHG emissions impacts over time

**Reporting**: Documenting and sharing monitoring and measurement results with project partners, the recipient, and any third-party verification organization

**Verification**: Independent confirmation that measurement, monitoring and reporting information are complete, accurate and reliable.

Projects must submit an MMRV plan that includes details about how each of the following are addressed:

- Quantification approach, including:
  - o GHG models used
  - o GHG measurement plan (if applicable)
  - Approach to quantifying additional environmental benefits, if applicable (e.g., water quality, habitat)
- Verification approach:
  - Compliance criteria
  - Verification plan/methodology
- Approach to ensuring:
  - o Additionality
  - o Permanence
  - o Leakage
  - Impacts of weather
- Plan for non-compliance

If the project is using a specific MMRV methodology or approach developed by the recipient, a project partner, or an outside organization, the project can submit documentation associated with the methodology as long as the documentation addresses each of the above categories.

If the project is tracking other environmental benefits (as reported in the *Additional Environmental Benefits* worksheet), include a description of the methodology and tools used to track and report on these benefits.

#### Field modeled GHG benefit reports

Results from any models besides COMET-Planner used to estimate GHG benefits must also be submitted as a separate report. This includes projects running COMET-Farm. The full results of any model can be submitted in the native/standard format generated by the modeling tool and must include the following Unique IDs in the report or in the file name: State, County, Farm ID, Tract ID, Field ID.

#### Field direct measurement results

For any direct physical measurements in the field, measurement results must be submitted as a separate report and must include the following Unique IDs in the report or in the file name: State, County, Farm ID, Tract ID, Field ID. Measurement results reports must include the name of the equipment used for sampling or data collection, the name of the lab that analyzed the data, and the analytical method used.

Sample report types include soil analysis reports, summarized results of portable emissions analyzers or flux towers, water quality analyses, and plant species counts. These could be collected for the purposes of determining GHG emission reductions or carbon sequestration amounts, for calibration of tools or models, for tracking other environmental benefits, or for other reasons.

#### **Data Descriptions**

This section provides descriptions and allowable response options for each data element. The guide also indicates whether each data element is required, applicable at times, or optional; as well as how frequently each data element must be updated.

#### Unique IDs

Project ID: Unique ID at the project level – "Award Identifying Number" shown on award documentation Partner ID: Unique ID at the partner level – use EIN; if no EIN, a unique ID will be assigned for use in these reports State or territory of operation: State or territory name County of operation: Physical county name

Farm ID: Unique ID at the operation level assigned by Farm Service Agency (FSA)

Tract ID: Unique ID at the tract level assigned by FSA

Field ID: Unique ID at the field level assigned by FSA

Project Summary

Commodity type	
Data element name: Commodity type	<b>Reporting question:</b> What climate-smart commodity types are produced by this project?
Description: Type of commodity incentiviz	zed by the project. These commodities include those for whom
5 87 A	r other types of marketing support. See full list of commodity options
in Appendix B. List one commodity per row	Ν.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values: FSA commodity list
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Commodity sales	
Data element name: Commodity sales	<b>Reporting question:</b> Did project activities result in sales this quarter of the commodity(ies) produced by this project?
Description: Indicator of sales of commod	ity(ies) related to project activities. If sales are reported, complete the
	is part of the quarterly performance report.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
ser "Nazio Ministra di Stano di California e California e 1924 - Indo de Roberto Bankovi	Yes
	• No
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Farms enrolled	
Data element name: Farms enrolled	<b>Reporting question:</b> Did the project enroll any producers or fields this quarter?
	olled producers or fields. If enrollment activities occurred this quarter
	d Enrollment worksheets (Tables 4 and 5) as part of the quarterly
performance report. Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
incusar cinent unit, category	Yes
	• No
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
GHG calculation methods	
Data element name: GHG calculation	Reporting question: What methods is the project using to
methods	calculate GHG benefits?
Description: List the way(s) that GHG bene	efits are being measured and calculated by the project this quarter.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Models
	<ul> <li>Direct field measurements</li> </ul>
· · · · · · · · ·	• Both
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly

GHG cumulative calculation	
Data element name: GHG cumulative	<b>Reporting question:</b> What method(s) was used to calculate the
calculation	total cumulative GHG benefits reported here? sed to calculate the total cumulative GHG benefits reported by the
project this quarter.	sed to calculate the total cumulative GHG benefits reported by the
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
Weasurement unit. Category	Models
	Direct field measurements
	Both
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Cumulative GHG benefits	
Data element name: Cumulative GHG	Reporting question: What are the project's estimated total GHG
benefits	emission reductions (CO2eq) to date?
	eenhouse gas emission reductions from practice implementation.
CALIFIC THE REPORT OF AN AND AN	nanges, enter the same number as the previous quarter.
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Cumulative carbon stock	
Data element name: Cumulative carbon	Reporting question: How much carbon has the project
stock	sequestered to date?
	ange in carbon stock based on practice implementation. This is
	, enter the same numbers as the previous quarter. Conversion rate is
one ton of carbon = 3.67 tons of CO <sub>2</sub> eq. Data type: Decimal	Select multiple values: No
10000 0100 020 00000 00 00 000000	Allowed values: 0-10,000,000
Measurement unit: Metric tons CO <sub>2</sub> eq	
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Cumulative CO2 benefit Data element name: Cumulative CO2	Reporting question: What are the project's estimated total
benefit	cumulative CO2 emission reductions to date?
	rbon dioxide emission reductions based on practice implementation.
	nanges, enter the same number as the previous quarter.
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO <sub>2</sub>	Allowed values: 0-10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Cumulative CH4 benefit	<i>i = 1 = 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2 = 2</i>
Data element name: Cumulative CH4 bene	fit <b>Reporting question:</b> What are the project's estimated total
	CH4 emission reductions to date?
	ethane reduction based on practice implementation. This is updated
	e same numbers as the previous quarter. Conversion rate is one ton
of $CH_4 = 25$ tons of $CO_2eq$ .	
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CH4 reduc CO <sub>2</sub> eq	
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly

Cumulative N20 benefit	
Data element name: Cumulative N2O benefi	
	N2O emission reductions to date?
and the second	ous oxide reduction based on practice implementation. This is
	umbers enter the same number as the previous quarter.
Conversion rate is one ton of N <sub>2</sub> O = 298 tons Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons N2O reduce	
CO <sub>2</sub> eq	
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Offsets produced	2011 102 102 102 102 102 102 102 102
Data element name: Offsets produced	<b>Reporting question:</b> How many carbon offsets have been produced in the project?
	y enrolled project fields during the quarter. Offsets are defined as
having been verified and certified using an ac Data type: Decimal	ccepted standard and sold into the carbon marketplace. Select multiple values: No
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Offsets sale	
Data element name: Offsets sale	Reporting question: To what marketplace(s) were carbon offsets sold?
defined as having been verified and certified List each marketplace name. Separate name	
Data type: Text	Select multiple values: NA
Measurement unit: Name	Allowed values: Text
Logic: Respond if >0 to 'Offsets produced'	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Offsets price	
Data element name: Offsets price	<b>Reporting question:</b> What was the average price of carbon received for offsets?
Description: Average price per metric ton pa	id for carbon offsets produced by enrolled project fields. Offsets are
	using an accepted standard and sold into the carbon marketplace.
Data type: Decimal	Select multiple values: No
Measurement unit: Dollars per metric ton	Allowed values: 0-500
Logic: Respond if >0 to 'Offsets produced'	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Insets produced	
Data element name: Insets produced	Reporting question: How many carbon insets have been produced in the project?
	enrolled fields during the quarter. Insets are defined as having
The second s	standard and accounted for within Scope 3 emissions for a firm.
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: Yes

Cost of on-farm TA	
Data element name: Cost of on-farm TA	<b>Reporting question:</b> What is the total amount that has been spent to provide on-farm TA?
and the state of the second of the second	tice-specific technical assistance provided by the project (by recipien ed quarterly. If there are no changes, enter the same number as the
Data type: Decimal	Select multiple values: No
Measurement unit: Dollars	Allowed values: \$0-\$50,000,000
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
MMRV cost	
Data element name: MMRV cost	<b>Reporting question:</b> What is the total amount that has been spent on MMRV activities?
Deceription: Total cost of all MMAN/ activity	as naid for by the project (recipient or partners) MMPV company

**Description:** Total cost of all MMRV activities paid for by the project (recipient or partners). MMRV components are defined as measurement (calculations or estimations of GHG emissions), monitoring (ongoing review and confirmation that the climate-smart practices have been implemented according to the agreed upon standard and documentation of any changes in the site, implementation, or GHG emissions impacts over time), reporting (documenting and sharing monitoring and measurement results with project partners, the recipient, and any third-party verification organization), and verification (independent confirmation that measurement, monitoring and reporting information are complete, accurate and reliable). This is updated quarterly. If there are no changes, enter the same number as the previous quarter.

GHG monitoring method		
Data collection level: Project	Data collection frequency: Quarterly	
Logic: None – all respond	Required: Yes	
Measurement unit: Dollars	Allowed values: \$0-\$50,000,000	
Data type: Decimal	Select multiple values: No	

Data element name: GHG monitoring 1-5 Reporting question: How did the project monitor GHG benefits?

**Description:** Up to the five most common forms of monitoring GHG benefits used this quarter as part of MMRV requirements. Monitoring is defined as ongoing review and confirmation that the climate-smart practice has been implemented according to the agreed upon standard and documentation of any changes in the site, implementation, or GHG emissions impacts over time. Include up to 5 methods, based on which methods are most commonly used for this project. The worksheet provides five columns with a drop-down list of the allowed values. Choose one value for each column. If fewer than 5 GHG monitoring methods are used, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other GHG monitoring methods as free text.

#### Data type: List Select multiple values: No Allowed values: Measurement unit: Category Drones . Ground-level photos and videos . **On-farm visit** Plot-based sampling Producer records or attestation Satellite monitoring or remote sensing Soil metagenomics Soil sensors Water sensors Other (specify) Logic: None - all respond Required: Yes Data collection level: Project Data collection frequency: Quarterly

#### GHG reporting method

Data element name: GHG reporting 1-5

**Reporting question:** How did the project track and report implementation of practices to reduce GHG emissions?

**Description:** Up to the five most common forms of tracking and reporting on practice implementation used this year as part of MMRV requirements. Reporting is defined as documenting and sharing monitoring and measurement results with project partners, the recipient, and any third-party verification organization. Include up to 5 methods, based on which methods are most commonly used for this project. The worksheet provides five columns with a drop-down list of the allowed values. Choose one value for each column. If fewer than 5 GHG reporting methods are used, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other GHG reporting methods as free text.

Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Automated devices
	Email
	Mobile app
	Paper
	Third-party actors
	Website
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
GHG verification method	
Data alament names CUC varification	Departing exertion: Upped did the project configuration potentian

Data element name: GHG verification method 1-5

**Reporting question:** How did the project verify implementation of practices to reduce GHG emissions?

**Description:** Up to the five most common forms of verifying practice implementation used this year as part of MMRV requirements. Verification is defined as independent confirmation that measurement, monitoring and reporting information are complete, accurate and reliable. Include up to 5 methods, based on which methods are most commonly used for this project. The worksheet provides five columns with a drop-down list of the allowed values. Choose one value for each column. If fewer than 5 GHG verification methods are used, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other GHG verification methods as free text.

Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Artificial intelligence
	Audit by recipient
	Computer modeling
	Photos
	Record audit
	Satellite imagery
	Site or field visit
	Third-party audit
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly

Partner Activities

#### **Unique IDs**

Partner ID

Unique Project ID for each partner

Partner name	
Data element name: Name of partner organization	<b>Reporting question:</b> What is the official name of the recipient or partner organization?
Description: Legal name of recipient or partner organiz	zation
Data type: Text	Select multiple values: NA
Measurement unit: NA	Allowed values: Text
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Partnership initiation
Partner type	
Data element name: Type of partner organization	Reporting question: What type of organization is this?
Description: Legal/financial structure of recipient or pa	artner organization
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	<ul> <li>Commodity groups (501c5)</li> </ul>
	For-profit
	Individual
	Nonprofit
	<ul> <li>State or local agency</li> </ul>
	Tribal agency
	University
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Partnership initiation
Partner POC	
Data element name: Partner POC	<b>Reporting question:</b> Who is the point of contact for this project at the recipient or partner organization?
<b>Description:</b> Name of a point of contact for the recipie	
Data type: Text	Select multiple values: NA
Measurement unit: NA	Allowed values: Text
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Partnership initiation; update as necessary
Partner POC email	1944 Materia (1941 1944) (1945 Sale (1944) an inter-
Data element name: Partner POC email	Reporting question: What is the point of contact's email address?
Description: Email of the point of contact for the recip	ient or partner organization
Data type: Text	Select multiple values: NA
Measurement unit: NA	Allowed values: Text
Logic: None – all respond	Required: Yes

Partnership start date	
Data element name: Partnership start date	Reporting question: When did the partnership start?
Description: Date that the partner organization and	d the recipient began formally partnering on the project
Data type: Date	Select multiple values: NA
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023 - 12/31/2030
Logic: No response for recipient	Required: Yes
Data collection level: Partner	Data collection frequency: Partnership initiation
Partnership end date	
Data element name: Partnership end date	Reporting question: When did the partnership end?
Description: Date that the partner organization and	the recipient stopped formally partnering on the project
Data type: Date	Select multiple values: NA
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023 - 12/31/2030
Logic: No response for recipient	Required: Yes
Data collection level: Partner	Data collection frequency: Partnership end quarter
New partnership	
Data element name: New partnership	Reporting question: Is this a new partnership?
working relationship (under contract or on a grant) Data type: List	ipient and the partner organization have not had a formal prior to the start of the project. Select multiple values: No
Measurement unit: Category	Allowed values:
	Yes
	<ul> <li>No</li> <li>I don't know</li> </ul>
Logic: No response for recipient	• Tool t know Required: Yes
Data collection level: Partner	Data collection frequency: Partnership initiation
	bata concettori requency. Farmership initiation
Partner total requested Data element name: Partner total requested	<b>Reporting question:</b> What is the total amount of funding the partner has requested to date from this project?
recipient from the start of the partnership to the en	at the partner has requested reimbursement for from the d of the reporting quarter. For each quarter's data entry, the ne amount of funds requested in the reporting quarter. If
Measurement unit: Dollars	Allowed values: \$0-\$100,000,000
Logic: No response for recipient	Required: Yes



Total match contribution	
Data element name: Total match contribution	Reporting question: What is the total match value the
	organization has contributed to the project to date?
	-kind contributions (e.g., staff time, inputs, equipment
	ided as a project match contribution from the start of the
	each quarter's data entry, the value must be the sum of all orting quarter. If there are no changes, report the value
from the previous quarter.	or ting quarter. If there are no changes, report the value
Data type: Decimal	Select multiple values: NA
Measurement unit: Dollars	Allowed values: \$0-\$100,000,000
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Quarterly
Total match incentives	
Data element name: Total match incentives	<b>Reporting question:</b> What is the total value of match provided by this organization for producer incentives
provided as a project match contribution from the st	centive payments directly to producers that the partner has tart of the partnership to the end of the reporting quarter. sum of all previous entries plus match incentives in the e value from the previous quarter.
Data type: Decimal	Select multiple values: NA
Measurement unit: Dollars	Allowed values: \$0-\$100,000,000
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Quarterly
Match type	
Data element name: Match type 1-3	<b>Reporting question:</b> What types of match contributions has the organization provided to the
Description: Types of match contributions other that	project?
	e end of the reporting quarter. Enter up to the top three (in
	In-kind staff time could be used for technical assistance,
<ul> <li>Maximized States Control and Scherosoftees and a submission of the second s Second second se Second second s Second second se Second second sec</li></ul>	. Production inputs include seed, fertilizer, pesticides,
	worksheet provides three columns with a drop-down list of
the allowed values. Choose one value for each colum	nn. If fewer than 3 match types are used, leave unnecessary
columns blank. If "other" is chosen, use the addition	al column to enter other match types as free text.

Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	<ul> <li>Equipment rental or use</li> </ul>
	<ul> <li>In-kind staff time</li> </ul>
	<ul> <li>Production inputs (reduced cost or free)</li> </ul>
	Program income
	Software
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Quarterly

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February 2023	

Data element name: Match amount 1-3	<b>Reporting question:</b> What is the value of the match contributions the organization provided to the project?	
project match contribution from the start of the pa for up to the top three (in dollar value) match type element. Enter one value for each column. If fewer	ach match type that the organization has provided as a rtnership to the end of the reporting quarter. Enter amounts . The worksheet provides three columns for this data than 3 match types are used, leave unnecessary columns	
blank. Data type: Decimal	Select multiple values: NA	
Measurement unit: Dollars	Allowed values: \$0-\$100,000,000	
	Construction of the second s	
Logic: None – all respond	Required: Yes	
Data collection level: Partner	Data collection frequency: Quarterly	
Training type provided	Barrier Miller Miller	
Data element name: Training type 1-3 provided Description: Types of training provided to the proj	<b>Reporting question:</b> What types of training has the organization provided to project partners? ject partner as a result of participating in the project during	
of their own organization, or an outside organization training provided. The worksheet provides three co	ient, a project partner organization (including other divisions on. Enter up to the top three (in dollar value) types of partner olumns with a drop-down list of the allowed values. Choose types are used, leave unnecessary columns blank. If "other" r training types as free text. Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Data collection	
	Grant reporting	
	Marketing opportunities	
	<ul> <li>Providing financial assistance</li> <li>Providing technical assistance</li> </ul>	
	Writing producer contracts	
	Broader contracto	
	<ul> <li>Other (specify)</li> </ul>	
Logic: None – all respond	<ul> <li>Other (specify)</li> <li>Required: Yes</li> </ul>	
Logic: None – all respond Data collection level: Partner		
Data collection level: Partner Activity by partner	Required: Yes Data collection frequency: Quarterly	
Data collection level: Partner	Required: Yes Data collection frequency: Quarterly Reporting question: What types of activities has the	
Data collection level: Partner Activity by partner Data element name: Activity 1-3 by partner Description: Types of activities that the recipient of quarter. Enter up to the top three (in dollar value) to columns with a drop-down list of the allowed value types are used, leave unnecessary columns blank. I	Required: Yes Data collection frequency: Quarterly Reporting question: What types of activities has the organization provided to the project? or partner organization has provided during the reporting types of activities undertaken. The worksheet provides three	
Data collection level: Partner Activity by partner Data element name: Activity 1-3 by partner Description: Types of activities that the recipient of quarter. Enter up to the top three (in dollar value) columns with a drop-down list of the allowed value	Required: Yes Data collection frequency: Quarterly Reporting question: What types of activities has the organization provided to the project? or partner organization has provided during the reporting types of activities undertaken. The worksheet provides three es. Choose one value for each column. If fewer than 3 activity	
Data collection level: Partner Activity by partner Data element name: Activity 1-3 by partner Description: Types of activities that the recipient of quarter. Enter up to the top three (in dollar value) to columns with a drop-down list of the allowed value types are used, leave unnecessary columns blank. I activity types as free text.	Required: Yes Data collection frequency: Quarterly Reporting question: What types of activities has the organization provided to the project? or partner organization has provided during the reporting types of activities undertaken. The worksheet provides three es. Choose one value for each column. If fewer than 3 activity if "other" is chosen, use the additional column to enter other	
Data collection level: Partner Activity by partner Data element name: Activity 1-3 by partner Description: Types of activities that the recipient of quarter. Enter up to the top three (in dollar value) to columns with a drop-down list of the allowed value types are used, leave unnecessary columns blank. If activity types as free text. Data type: List	Required: Yes Data collection frequency: Quarterly Reporting question: What types of activities has the organization provided to the project? or partner organization has provided during the reporting types of activities undertaken. The worksheet provides three es. Choose one value for each column. If fewer than 3 activity of "other" is chosen, use the additional column to enter other Select multiple values: No Allowed values: • Marketing support	
Data collection level: Partner Activity by partner Data element name: Activity 1-3 by partner Description: Types of activities that the recipient of quarter. Enter up to the top three (in dollar value) to columns with a drop-down list of the allowed value types are used, leave unnecessary columns blank. If activity types as free text. Data type: List	Required: Yes Data collection frequency: Quarterly Reporting question: What types of activities has the organization provided to the project? or partner organization has provided during the reporting types of activities undertaken. The worksheet provides three ess. Choose one value for each column. If fewer than 3 activity If "other" is chosen, use the additional column to enter other Select multiple values: No Allowed values: • Marketing support • MMRV support	
Data collection level: Partner Activity by partner Data element name: Activity 1-3 by partner Description: Types of activities that the recipient of quarter. Enter up to the top three (in dollar value) to columns with a drop-down list of the allowed value types are used, leave unnecessary columns blank. If activity types as free text. Data type: List	Required: Yes Data collection frequency: Quarterly Reporting question: What types of activities has the organization provided to the project? or partner organization has provided during the reporting types of activities undertaken. The worksheet provides three es. Choose one value for each column. If fewer than 3 activity if "other" is chosen, use the additional column to enter other Select multiple values: No Allowed values: • Marketing support • MMRV support • Producer outreach for enrollment	
Data collection level: Partner Activity by partner Data element name: Activity 1-3 by partner Description: Types of activities that the recipient of quarter. Enter up to the top three (in dollar value) to columns with a drop-down list of the allowed value types are used, leave unnecessary columns blank. If activity types as free text. Data type: List	Required: Yes Data collection frequency: Quarterly Reporting question: What types of activities has the organization provided to the project? or partner organization has provided during the reporting types of activities undertaken. The worksheet provides three es. Choose one value for each column. If fewer than 3 activity if "other" is chosen, use the additional column to enter other Select multiple values: No Allowed values: Marketing support MMRV support Producer outreach for enrollment Technical assistance to producers	
Data collection level: Partner Activity by partner Data element name: Activity 1-3 by partner Description: Types of activities that the recipient of quarter. Enter up to the top three (in dollar value) to columns with a drop-down list of the allowed value types are used, leave unnecessary columns blank. If activity types as free text. Data type: List	Required: Yes Data collection frequency: Quarterly Reporting question: What types of activities has the organization provided to the project? or partner organization has provided during the reporting types of activities undertaken. The worksheet provides three es. Choose one value for each column. If fewer than 3 activity if "other" is chosen, use the additional column to enter other Select multiple values: No Allowed values: • Marketing support • MMRV support • Producer outreach for enrollment • Technical assistance to producers • Training to other partner organizations	
Data collection level: Partner Activity by partner Data element name: Activity 1-3 by partner Description: Types of activities that the recipient of quarter. Enter up to the top three (in dollar value) to columns with a drop-down list of the allowed value types are used, leave unnecessary columns blank. If activity types as free text. Data type: List	Required: Yes Data collection frequency: Quarterly Reporting question: What types of activities has the organization provided to the project? or partner organization has provided during the reporting types of activities undertaken. The worksheet provides three es. Choose one value for each column. If fewer than 3 activity if "other" is chosen, use the additional column to enter other Select multiple values: No Allowed values: Marketing support MMRV support Producer outreach for enrollment Technical assistance to producers	

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Activity cost	
Data element name: Activity cost 1-3	<b>Reporting question:</b> What is the value of the activitie this organization has provided to the project?
<b>Description:</b> Cumulative (total) cost of each activity typ the start of the partnership to the end of the reporting of	- 2019년 1월 22년 2019년 21년 1월 22년 1월 2019년 1월 2019년 2 1월 21년 1월 22년 2019년 21년 1월 21년 1월 1월 21년 1월 21년
value) activity types. The worksheet provides three colu	and a state of the second state
column. If fewer than 3 activity types are provided, leav	
Data type: Decimal	Select multiple values: NA
Measurement unit: Dollars	Allowed values: \$0-\$100,000,000
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Quarterly
Products supplied	
Data element name: Products supplied	Reporting question: What products or supplies were provided to enrolled fields?
Description: Name(s) of products supplied to enrolled p	roducers as incentives or matching contributions. Enter
the name of each product, including its brand. Separate	each product name with a comma. If no products or
supplies were provided by the organization, leave the co	blumn blank.
Data type: Text	Select multiple values: NA
Measurement unit: Name	Allowed values: Text
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Quarterly
Product source	
Data element name: Product source	<b>Reporting question:</b> Which companies provided the supplies?
Description: Name of firm or company from which supp	olies were obtained.
Data type: Text	Select multiple values: NA
Measurement unit: Name	Allowed values: Text
Logic: Respond if text entered for 'Products supplied'	Required: Yes
Data collection level: Partner	Data collection frequency: Quarterly



#### Marketing Activities

Commodity type	
Data element name: Commodity type	Reporting question: What type of commodity is produced by
	the farmers enrolled in this project?
	uced or marketed through incentives from this project. If multiple
commodities are produced by the project,	use additional rows of the worksheet to report each commodity. Use
the FSA commodity list in Appendix B and	choose the commodity from the list.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values: FSA commodity list
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Marketing channel type	
Data element name: Marketing channel	Reporting question: What type of marketing channel is used to
type	sell this commodity?

**Description:** List a single type of marketing channel used to sell the commodity produced by farmers enrolled in the project. If a single commodity is marketed through multiple channels, use additional rows of the worksheet to report each combination of commodity and marketing channel. If "other" is chosen, use the additional column to enter the other marketing channel type(s) as free text.

Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values: <ul> <li>Agricultural marketing board</li> <li>Biorefinery</li> <li>Commodity broker</li> <li>Direct to consumer</li> <li>Direct to institution</li> <li>Direct to restaurant</li> <li>Distributor (including grain elevators)</li> <li>Food hub or cooperative</li> <li>Food processor</li> <li>Non-food byproducts processor</li> <li>Retailer</li> <li>USDA</li> </ul>
Logic: None – all respond	Other (specify) Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Number of buyers	
Data element name: Number of buyers Description: List the number of individual	<b>Reporting question:</b> How many buyers are there in this marketing channel? firms or buyers in this marketing channel.
Data type: Integer	Select multiple values: No
Measurement unit: Count	Allowed values: 1-500
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly

Names of buyers	
Data element name: Names of buyers	<b>Reporting question:</b> What are the names of all of the buyers in this marketing channel?
Description: Provide the names of all buyer	s in this marketing channel. Separate each name with a comma.
Data type: Text	Select multiple values: NA
Measurement unit: Name	Allowed values: Text
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Marketing channel geography	
Data element name: Marketing channel	Reporting question: What is the primary geography of the
geography	marketing channel?
	type of marketing channel. Primary geography means the scale at
	ling happens. Local means within a single state or directly
	a five-to-ten state area. National means across the United States.
	de of the United States. Global means across the world or not to a
specific international location.	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Local
	Regional
	National
ees au Mini (2011 - 20	Global
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Value sold	
Data element name: Value sold	Reporting question: What is the value of the commodity sold in
	this marketing channel?
	dity sold in this marketing channel this quarter (non-cumulative).
Data type: Decimal	Select multiple values: No
Measurement unit: Dollars	Allowed values: \$1-\$100,000,000
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Volume sold	
Data element name: Volume sold	Reporting question: What is the volume of the commodity solo in this marketing channel?
Description: The volume of the commodity	sold in this marketing channel this quarter (non-cumulative).
Data type: Decimal	Select multiple values: No
Measurement unit: Number	Allowed values: 1-100,000,000
Logic: None – all respond	Required: Yes
Data collection level: Project	

Volume sold unit	
Data element name: Volume sold unit	Reporting question: What is the unit of volume?
<b>Description:</b> The unit associated with the vectors of the additional column to enter <b>Data type:</b> List	olume of the commodity sold in the marketing channel. If "other" is the appropriate unit as free text. Select multiple values: No
	Allowed values:
Measurement unit: Category	Bales (500 pounds)
	Bushels
	Carcass pounds
	Gallons
	Kilograms
	Linear board feet
	Liveweight pounds
	Metric tons
	Pounds
	Short tons
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Price premium	
Data element name: Price premium	Reporting question: What price premium is received for the commodity sold in this marketing channel?
Description: The price premium received for	or the commodity sold in this marketing channel this quarter. Price
premium is the amount received above a 'b	. 에는 것은 것은 사람이 같은 것은 것을 하는 것을 것을 것을 것을 것을 것을 것을 것 같아요. 것은 것은 것은 것을 것을 것을 것을 것 같아요. 나는 것을 것을 것을 것 같아요. 나는 것을 것을 것 같아요. 나는 것은 것 같아요. 나는 것을 것 같아요. 나는 것은 것 같아요. 나는 것 않아요. 나는 것 같아요. 나는 것 않아요. 나는 하 않아요. 나는 것 않아요. 나는 않아요. 나요. 나는 않아요. 나는 않아요. 나는 않아요. 나요. 나는 않아요. 나 않아요. 나요. 나요. 나요. 나요. 나 않아요. 나요. 나요. 나요. 나요. 나요.
Data type: Decimal	Select multiple values: No
Measurement unit: Dollars	Allowed values: \$0.01-\$10,000
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Price premium unit	
Data element name: Price premium unit	Reporting question: What is the unit for the price premium?
State of the second state of the	rice premium for the commodity sold in the marketing channel. If
	n to enter the appropriate unit as free text.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	<ul> <li>Per bale (500 pounds)</li> <li>Per bushel</li> </ul>
	Per bushel     Per carcass pound
	<ul> <li>Per gallon</li> </ul>
	Per kilogram
	Per linear board foot
	Per live pound
	Per metric ton
	Per ounce
	Per short ton
	Other (specify)
	The second s
Logic: None – all respond	Required: Yes Data collection frequency: Quarterly

Data element name: Price premium to	Reporting question: What percent of the price premium is
producer	provided to the producer for the commodity sold in this marketing channel?
Description: The percent of the price prem	ium provided to the producer for the commodity sold in this
marketing channel this quarter. Price prem	ium is the amount received above a 'business as usual' price.
Data type: Decimal	Select multiple values: No
Measurement unit: Percent	Allowed values: 0-100
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly

Data element name: Product differentiation method 1-3

**Reporting question:** What methods are used to differentiate climate-smart commodities in this marketing channel?

**Description:** Provide the methods used to differentiate the climate-smart commodity in this market channel. Product differentiation methods are ways to distinguish or differentiate the climate-smart commodity in the marketplace. Include up to 3 methods, based on which methods are most commonly used for this project. The worksheet provides three columns with a drop-down list of the allowed values. Choose one value for each column. If fewer than 3 product differentiation methods are used, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other product differentiation methods as free text.

Data type: List	Select multiple values: No
Measurement unit: Category	<ul> <li>Allowed values:</li> <li>Certification/verification for internal insetting</li> </ul>
	Farm certification
	<ul> <li>Label or badge used on packaging or marketing</li> </ul>
	<ul> <li>Third party certification/verification</li> </ul>
	Trademark
	<ul> <li>Other (specify)</li> </ul>
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Aarketing method	

Data element name: Marketing method 1-3 Reporting question: What methods are used to market climate-smart commodities in this marketing channel?

**Description:** Provide the method(s) used to market this commodity in this market channel. Marketing method is the way that potential buyers of the climate-smart commodity are engaged by the project partners as the sellers or facilitators of sale. Include up to 3 methods, based on which methods are most commonly used for this project. The worksheet provides three columns with a drop-down list of the allowed values. Choose one value for each column. If fewer than 3 marketing methods are used, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other marketing methods as free text

Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	<ul> <li>Label or badge used on packaging or marketing materials</li> </ul>
	<ul> <li>Marketing partnership (e.g., promotion by buyer)</li> </ul>
	<ul> <li>Print marketing campaign</li> </ul>
	<ul> <li>Social media and digital marketing campaign</li> </ul>
	<ul> <li>Verbal marketing campaign (e.g., radio, word of mouth)</li> </ul>
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly

Data element name: Marketing channel	Reporting question: What methods are used to generate
identification method 1-3	interest in climate-smart commodities in this marketing channel?

**Description:** Provide the marketing channel identification method(s) used for this commodity in this market channel. Market channel identification methods are the ways that producers and project partners generate interest in purchasing the climate-smart commodity. Include up to 3 methods, based on which methods are most commonly used for this project. The worksheet provides three columns with a drop-down list of the allowed values. Choose one value for each column. If fewer than 3 marketing channel identification methods are used, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other marketing channel identification methods as free text

Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	<ul> <li>Educational tours for buyers</li> </ul>
	In-person lead generation
	<ul> <li>Negotiated contracts with buyers</li> </ul>
	<ul> <li>Partnership network or project partner</li> </ul>
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Traceability method	
Data element name: Traceability method	Reporting question: What traceability methods are used for

1-3 climate-smart commodities in this channel?

Description: Provide the traceability method(s) used for the climate-smart commodity in this market channel. Traceability methods are ways to trace the climate-smart commodity or the climate-smart claims through the supply chain. Include up to 3 methods, based on which methods are most commonly used for this project. The worksheet provides three columns with a drop-down list of the allowed values. Choose one value for each column. If fewer than 3 traceability methods are used, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other traceability methods as free text. Data type: List Select multiple values: No

Measurement unit: Category

Logic: None - all respond

#### Allowed values:

- Barcode or unique ID
- Blockchain
- Book and claim
- Chain of custody
- Mass balance
- Recordkeeping
- Registry with certification
- Segregation
- Supply shed
- Volume proxy
- Other (specify)
- Required: Yes

Data collection level: Project	Data collection frequency: Quarterly

### Producer Enrollment

Farm ID	Unique Farm	n ID assigned by FSA
State or territory	12	(must match FSA farm enrollment data)
County of residence		e (must match FSA farm enrollment data)
Producer data change		
Data element name: Producer o	ata change	<b>Reporting question:</b> Is there new/updated information for a producer who is re-enrolling in the project?
<b>Description:</b> Indicates that ther the project and is re-enrolling.	e is new or updated	d information for a producer who had previously enrolled in
Data type: List		Select multiple values: No
Measurement unit: Category		Allowed values: • Yes • No
Logic: None – all respond		Required: Yes
Data collection level: Producer		Data collection frequency: Re-enrollment
Producer start date		And the factor with the solution of the following the first solution of the
Data element name: Producer s	tart date	Reporting question: When did the producer enroll in the project?
Description: Date that the prod	ucer enrolled in the	e project by signing their first contract.
Data type: Date		Select multiple values: NA
Measurement unit: MM/DD/YY	YY	Allowed values: 01/01/2023 - 12/31/2030
Logic: None – all respond		Required: Yes
Data collection level: Producer		Data collection frequency: Initial enrollment
Producer name		
Data element name: Producer r	ame	<b>Reporting question:</b> What is the name of producer enrolled in the project?
section with a section of the sectio		project; the name must match the name contained in the Operating Plan in FSA Business File for that Farm ID.
Data type: Text		Select multiple values: NA
Measurement unit: NA		Allowed values: Text
Logic: None – all respond		Required: Yes
Data collection level: Producer		Data collection frequency: Initial enrollment



Jnderserved status		
Data element name: Underserved s		
Description: Underserved status of	underserved and/or a small producer? the primary operator of the enrolled operation. Underserved producers	
	ially disadvantaged farmers, veteran farmers, and limited resource	
E	cers growing specialty crops are generally also included in these categories.	
	less than \$350,000 in annual gross cash farm income. Indicate whether this	
(第3) 報	, a small producer, or both underserved and a small producer. Use "I don't	
	swer. Departmental Regulation 4370-001 provides USDA's policies for	
collecting demographic data, includi	ng race, ethnicity and gender. Providing demographic information is	
	e customer. Demographic information is used by USDA for statistical	
5 D	o determine an applicant's eligibility for programs or services for which they	
apply. Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values: No	
Weasurement unit. Category	Yes, underserved	
	Yes, small producer	
	<ul> <li>Yes, underserved and small producer</li> </ul>	
	• No	
	<ul> <li>I don't know</li> </ul>	
Logic: None – all respond	Required: No	
Data collection level: Producer	Data collection frequency: Initial enrollment	
otal area		
Data element name: Total area	Reporting question: What is the total area of the farm?	
	associated with the Farm ID. Report total area of the farm, even if only a	
Comparison of the state of t	e project. If a producer is enrolled in the project for multiple years, review	
	ract is signed and provide any necessary updates.	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Less than 1 acre	
	<ul> <li>1 to 9 acres</li> <li>10 to 49 acres</li> </ul>	
	<ul> <li>50 to 69 acres</li> </ul>	
	<ul> <li>70 to 99 acres</li> </ul>	
	<ul> <li>100 to 139 acres</li> </ul>	
	• 140 to 179 acres	
	<ul> <li>180 to 219 acres</li> </ul>	
	<ul> <li>220 to 259 acres</li> </ul>	
	<ul> <li>260 to 499 acres</li> </ul>	
	<ul> <li>500 to 999 acres</li> </ul>	
	<ul> <li>1,000 to 1,999 acres</li> </ul>	
	<ul> <li>2,000 to 4,999 acres</li> </ul>	
Logic: None - all respond	5,000 or more acres  Required: Yes	
Logic: None – all respond Data collection level: Producer	<ul> <li>5,000 or more acres</li> <li>Required: Yes</li> <li>Data collection frequency: Initial enrollment and subsequent</li> </ul>	

Total crop area	
Data element name: Total crop area	<b>Reporting question:</b> What percent of the current operation is cropland?
<ul> <li>Description of the second state of th second state of the second state of</li></ul>	is currently used as cropland. If a producer is enrolled in the project for a each time a new contract is signed and provide any necessary
Data type: Integer	Select multiple values: No
Measurement unit: Acres	Allowed values: 0-100,000
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment and subsequent enrollment(s), if applicable
fotal livestock area	
Data element name: Total livestock area	<b>Reporting question:</b> What amount of the current operation is used for livestock (by area)?
feeding or milking. If a producer is enro	is currently used for pasture, grazing, rangeland; or animal housing, lled in the project for multiple years, review the total livestock area each
time a new contract is signed and provide	· 동생 - · · · · · · · · · · · · · · · · · ·
Data type: Integer	Select multiple values: No
Measurement unit: Acres	Allowed values: 0-100,000
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment and subsequent enrollment(s), if applicable
Fotal forest area	
Data element name: Total forest area	<b>Reporting question:</b> What amount of the current operation is forested (by area)?
least 10% of the land area is covered in	is currently considered forest land use. Forest land use means that at trees that will be at least 13 feet tall when mature. If a producer is s, review the total forest area each time a new contract is signed and
Data type: Integer	Select multiple values: No
Measurement unit: Acres	Allowed values: 0-100,000
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment and subsequent enrollment(s), if applicable

ivestock type Data element name: Livestock type 1-3	Reporting question: What types of livestock are
Data element name: Livestock type 1-3	raised on the farm?
columns with a drop-down list of the allowed val 3 livestock types, leave unnecessary columns blan other livestock types as free text. If a producer is type each time a new contract is signed and prov	y head count) on the farm. The worksheet provides three ues. Choose one value for each column. If there are fewer thar nk. If "other" is chosen, use the additional column to enter enrolled in the project for multiple years, review the livestock ide any necessary updates.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Alpacas
	Beef cows
	Beefalo
	Buffalo or
	bison
	Chickens
	(broilers)
	Chickens
	(layers)
	Dairy cows
	• Deer
	Ducks
	• Elk
	Emus
	Equine
	Geese
	Goats
	Honeybees
	Llamas
	Reindeer
	Sheep
	Swine
	Turkeys
	• Other
	(specify)
Logic: Respond if 'Total livestock area' >0	Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment and subsequent enrollment(s), if applicable
ivestock head	subsequent en onnent(s), il applicable
Data element name: Livestock head 1-3	Reporting question: How many livestock (by type) ar
sata clement numer livestock field 1 5	on this operation?

Description: Average annual head count for each type of livestock. Enter amounts for up to the top three livestock types by number. The worksheet provides three columns for this data element. Enter one value for each column. If there are fewer than 3 livestock types, leave unnecessary columns blank. If a producer is enrolled in the project for multiple years, review the average annual head count each time a new contract is signed and provide any necessary updates.
Data type: Integer
Select multiple values: NA

Measurement unit: Head count	Allowed values: 1-10,000,000
Logic: Respond if 'Total livestock area' >0	Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment and
	subsequent enrollment(s), if applicable

Organic fa	arm
------------	-----

Data element name: Organic farm

**Reporting question:** Is any part of the farm currently USDA-certified organic or transitioning to USDA-certified organic?

**Description:** USDA-certified organic means that the farm has been certified by an accredited organic certifying agent or is transitioning to USDA-certified organic by not using any of the prohibited substances. Yes means that some or all of the farm is certified organic or transitioning to certified organic. No means that no part of the farm is certified organic or transitioning to certified organic. If a producer is enrolled in the project for multiple years, review the organic certification status of the farm each time a new contract is signed and provide any necessary updates.

Data type: List	
and their rise	Select multiple values: No
Measurement unit: Category	Allowed values:
	• Yes
	• No
	I don't know
Logic: None – all respond	Required: No
Data collection level: Producer	Data collection frequency: Initial enrollment and
	subsequent enrollment(s), if applicable
Organic fields	
Data element name: Organic fields	<b>Reporting question:</b> Are any of the fields enrolled in the project currently USDA-certified organic or transitioning to USDA-certified organic?
certifying agent or is transitioning to USDA-ce means that some or all of the fields enrolled i organic. No means that no part of the fields e certified organic. If a producer is enrolled in t	hat the operation has been certified by an accredited organic ertified organic by not using any of the prohibited substances. Yes in the project are certified organic or transitioning to certified enrolled in the project are certified organic or transitioning to he project for multiple years, review the organic certification status ct is signed and provide any necessary updates. Select multiple values: No
Measurement unit: Category	Allowed values:
	Yes
	• No
	I don't know
Logic: Respond if yes to 'Organic operation'	Required: No
CH2 //11 K0 201 //	
Data collection level: Producer	Data collection frequency: Initial enrollment and subsequent enrollment(s), if applicable
Data collection level: Producer Producer motivation	
Producer motivation Data element name: Producer motivation	subsequent enrollment(s), if applicable Reporting question: Which of the following was the primary reason the producer enrolled in this project?
Producer motivation Data element name: Producer motivation Description: Primary operator's motivation for	subsequent enrollment(s), if applicable <b>Reporting question:</b> Which of the following was the primary reason the producer enrolled in this project? or enrolling in the project.
Producer motivation Data element name: Producer motivation Description: Primary operator's motivation for Data type: List	subsequent enrollment(s), if applicable <b>Reporting question:</b> Which of the following was the primary reason the producer enrolled in this project? or enrolling in the project. <b>Select multiple values:</b> No
Producer motivation Data element name: Producer motivation Description: Primary operator's motivation for	subsequent enrollment(s), if applicable <b>Reporting question:</b> Which of the following was the primary reason the producer enrolled in this project? or enrolling in the project.
Producer motivation Data element name: Producer motivation Description: Primary operator's motivation for Data type: List	subsequent enrollment(s), if applicable  Reporting question: Which of the following was the primary reason the producer enrolled in this project? or enrolling in the project. Select multiple values: No Allowed values:  Financial benefit Financial benefit New market opportunity Partnerships or networks

Producer outreach	
Data element name: Producer outreach 1- 3	Reporting question: What types of outreach were provided to producers?
	producers: bes of outreach provided to producer prior to enrollment. Outreach
activities are those focused on identifying a recipient or project partners. The workshe	and enrolling producers in the project. Outreach can come from the et provides three columns with a drop-down list of the allowed If there are fewer than 3 outreach types, leave unnecessary column
	hal column to enter other outreach types as free text.
Data type: List	Select multiple values: Yes
GE GE DE GELEK BERKEN EN KONT	
Measurement unit: Category	Allowed values:
	Commodity organizations
	Conferences
	Cooperative extension
	Digital communications and resources
	Education workshops, field days, and town halls
	Existing partner networks
	Farm visits and one-on-one meetings
	General advertising
	<ul> <li>Peer referrals and producer groups</li> <li>Phone calls</li> </ul>
	In a second s
	<ul> <li>Print communications and resources</li> <li>Retailers</li> </ul>
	State agencies
	<ul> <li>Targeted messaging using proprietary data</li> <li>Technical service providers</li> </ul>
	<ul> <li>Other (specify)</li> </ul>
Logic: None – ali respond	Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment
SAF experience	Data collection frequency: initial enrollment
Data element name: CSAF experience	Reporting question: Has the primary operator implemented
Data element name. CoAr experience	CSAF practices in the last ten years anywhere on the farm?
Description: Has this farm implemented cl	imate-smart agriculture or forestry (CSAF) practices anywhere on the
a bur even a national and the second state and the state of the second state of the second state of the second s	ent primary operator took control (whichever time period is shorter)
CSAF practices are included in a list in App	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
incover chieft white category	Yes
	• No
	I don't know
Logic: None – all respond	Required: Yes

Data collection frequency: Initial enrollment

Data collection level: Producer

<b>USDA</b> Pa	rtnerships for Climate-Smart Commodities Data Dictionary for Recipients
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CSAF federal funds	
Data element name: CSAF federal funds	<b>Reporting question:</b> Were prior CSAF practices supported by federal funds?
implementation supported by federal funds? not limited to, those from the Natural Resour Quality Incentives Program (EQIP), Conservat	perator) has implemented CSAF practices in the last ten years, was Federal funds are defined as being from programs including, but ces Conservation Service ((NRCS), including through Environmenta ion Stewardship Program (CSP), Regional Conservation Partnership rm Service Agency Conservation Reserve Program (CRP), as well as deral agencies. Select multiple values: No
Measurement unit: Category	Allowed values: • Yes
	• No
	I don't know
Logic: Respond if yes to 'CSAF experience'	Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment
CSAF state or local funds	
Data element name: CSAF state or local funds	<b>Reporting question:</b> Were prior CSAF practices supported by state or local funds?
	perator) has implemented CSAF practices in the last ten years, was rate or local funds are those from state departments of agriculture stricts and other local agencies. Select multiple values: No
Measurement unit: Category	Allowed values:
incusarement and category	Yes
	• No
	I don't know
Logic: Respond if yes to 'CSAF experience'	Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment
CSAF nonprofit funds	
Data element name: CSAF nonprofit funds	Reporting question: Were CSAF practices supported by nonprofit funds?
	perator) has implemented CSAF practices in the last ten years, was s? Nonprofit funds are those offered directly from a nonprofit
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values: • Yes • No
Logic: Respond if yes to 'CSAE experience'	I don't know
Logic: Respond if yes to 'CSAF experience' Data collection level: Producer	

CSAF market incentives	
Data element name: CSAF market incentives	Reporting question: Were CSAF practices supported by market incentives?
El su succher a success se site d'Alf - source a construction and Elforement serve a Million Difference and Million	perator) has implemented CSAF practices in the last ten years, was es? Market incentives include premiums paid by a commodity labeling as a climate-smart commodity. Select multiple values: No
Measurement unit: Category	Allowed values:
	<ul> <li>Yes</li> <li>No</li> <li>I don't know</li> </ul>
Logic: Respond if yes to 'CSAF experience'	Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment

Field Enrollment

Unique IDs		
Farm ID	Unique Farm ID assigned by FSA	
Tract ID	Unique Tract ID assigned by FSA	
Field ID	Unique Field ID assigned by FSA	
State or territory of field	State name (must match FSA farm enrollment data)	
County of field	County name (must match FSA farm enrollment data)	
Prior Field ID, if applicable	Prior Field ID assigned by FSA if there has been reconstitution of the farm resulting in a new Field ID during the field's enrollment in the project	
Field data change		
Data element name: Field data c	reported for this field changed?	
	ntry is being used to report any relevant changes, such as a new Field ID odity or practice combinations, for a field that has previously been enrolled in	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	• Yes	
	• No	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Re-enrollment	
Contract start date		
Data element name: Contract sta Description: Start date listed on	art date <b>Reporting question:</b> What is the start date of the contract with the producer that includes this field? the contract that enrolls the field in the project.	
Data type: Date	Select multiple values: NA	
Measurement unit: MM/DD/YYY		
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Initial enrollment	
Total field area		
Data element name: Total field a	rea <b>Reporting question:</b> What is the total size of the enrolled field?	
Description: Total size of the field	d enrolled with the project.	
Data type: Decimal	Select multiple values: No	
Measurement unit: Acres	Allowed values: .01-500	
Logic: None – all respond	Required: Yes	
LOBIC: None an respond	DRANDWED AVAILABLE MADE FERMA	

USDA Partnerships for Climate-Smart Commodities Data Dictionary for Recipients	
February 2023	

Data element name: Commodity category	Reporting question: What category of
	commodity(ies) is (are) produced from this field
Description: Category of commodity(ies) produced in fie	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Crops
	Livestock
	Trees
	Crops and livestock
	<ul> <li>Crops and trees</li> </ul>
	<ul> <li>Livestock and trees</li> </ul>
	Crops, livestock and trees
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
Commodity type	
Data element name: Commodity type	Reporting question: What type of commodity i produced from this field?
Description: Type of commodity produced in field enroll	
worksheet provides a drop-down list of the allowed value	es. Choose the appropriate value. Enter additional
commodities in subsequent rows.	
	es. Choose the appropriate value. Enter additional Select multiple values: No
commodities in subsequent rows.	
commodities in subsequent rows. Data type: List	Select multiple values: No
commodities in subsequent rows. Data type: List Measurement unit: Category	Select multiple values: No Allowed values: FSA commodity list
commodities in subsequent rows. Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field	Select multiple values: No Allowed values: FSA commodity list Required: Yes
commodities in subsequent rows. Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field	Select multiple values: No Allowed values: FSA commodity list Required: Yes
commodities in subsequent rows. Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field Baseline yield	Select multiple values: No Allowed values: FSA commodity list Required: Yes Data collection frequency: Initial enrollment Reporting question: What is the baseline yield of this field?
commodities in subsequent rows. Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field Baseline yield Data element name: Baseline yield Description: Average annual yield of commodity in 3 year field if possible. If not at field level, provide average annual	Select multiple values: No Allowed values: FSA commodity list Required: Yes Data collection frequency: Initial enrollment Reporting question: What is the baseline yield of this field? ars prior to enrollment. Provide yield for the enrolled ual yield for the specific commodity for the operation.
commodities in subsequent rows. Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field Baseline yield Data element name: Baseline yield Description: Average annual yield of commodity in 3 year	Select multiple values: No Allowed values: FSA commodity list Required: Yes Data collection frequency: Initial enrollment Reporting question: What is the baseline yield of this field? ars prior to enrollment. Provide yield for the enrolled
commodities in subsequent rows. Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field Baseline yield Data element name: Baseline yield Description: Average annual yield of commodity in 3 year field if possible. If not at field level, provide average annual	Select multiple values: No Allowed values: FSA commodity list Required: Yes Data collection frequency: Initial enrollment Reporting question: What is the baseline yield of this field? ars prior to enrollment. Provide yield for the enrolled ual yield for the specific commodity for the operation.
commodities in subsequent rows. Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field Baseline yield Data element name: Baseline yield Description: Average annual yield of commodity in 3 yea field if possible. If not at field level, provide average annual Data type: Decimal	Select multiple values: No Allowed values: FSA commodity list Required: Yes Data collection frequency: Initial enrollment Reporting question: What is the baseline yield of this field? ars prior to enrollment. Provide yield for the enrolled ual yield for the specific commodity for the operation. Select multiple values: No



Data element name: Baseline yield unit	Reporting question: Baseline yield unit	
C. (25)	of commodity in enrolled field in 3 years prior to enrollment. The hoices for this data element. If "other" is chosen, use the additional it as free text.	
Data type: List	Select multiple values: No	
Measurement unit: Category	<ul> <li>Allowed values:</li> <li>Animal units per acre</li> <li>Bushels per acre</li> <li>Carcass pounds per animal</li> <li>Head per acre</li> <li>Hundred-weights (or pounds) per head</li> <li>Linear feet per acre</li> <li>Liveweight pounds per animal</li> <li>Pounds per acre</li> <li>Tons per acre</li> </ul>	
1	Other (specify)	
Logic: None – all respond	Required: Yes	
Data collection level: Field Baseline yield location	Data collection frequency: Initial enrollment	
Data element name: Baseline yield locati		
"other" is chosen, use the additional colu Data type: List Measurement unit: Category Logic: None – all respond	baseline yield being reported? erage annual yield of commodity in 3 years prior to enrollment. If imm to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field • Whole operation • Other (specify) Required: Yes	
Description: Location of the reported ave "other" is chosen, use the additional colu Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field	baseline yield being reported? erage annual yield of commodity in 3 years prior to enrollment. If imn to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field • Whole operation • Other (specify)	
Description: Location of the reported ave "other" is chosen, use the additional colu Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field ield land use	baseline yield being reported? erage annual yield of commodity in 3 years prior to enrollment. If imn to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field • Whole operation • Other (specify) Required: Yes Data collection frequency: Initial enrollment	
Description: Location of the reported ave "other" is chosen, use the additional colu Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field Field land use Data element name: Field land use Description: Prior to enrollment, what wa	baseline yield being reported? erage annual yield of commodity in 3 years prior to enrollment. If imm to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field • Whole operation • Other (specify) Required: Yes Data collection frequency: Initial enrollment Reporting question: What is this field's land use history? as the most common land use for this field in the past 3 years?	
Description: Location of the reported ave "other" is chosen, use the additional colu Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field ield land use Data element name: Field land use	baseline yield being reported? erage annual yield of commodity in 3 years prior to enrollment. If imm to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field • Whole operation • Other (specify) Required: Yes Data collection frequency: Initial enrollment Reporting question: What is this field's land use history? as the most common land use for this field in the past 3 years? Select multiple values: No Allowed values: • Crop land • Forest land • Non-agriculture • Other agricultural land • Pasture	
Description: Location of the reported ave "other" is chosen, use the additional colu Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field ield land use Data element name: Field land use Description: Prior to enrollment, what wa Data type: List	baseline yield being reported? erage annual yield of commodity in 3 years prior to enrollment. If imm to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field • Whole operation • Other (specify) Required: Yes Data collection frequency: Initial enrollment Reporting question: What is this field's land use history? as the most common land use for this field in the past 3 years? Select multiple values: No Allowed values: • Crop land • Forest land • Non-agriculture • Other agricultural land	

Field irrigated	
Data element name: Field irrigated	Reporting question: What is this field's irrigation history?
Description: Prior to enrollment, what wa	as the most common irrigation practice on this field the past 3 years?
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	No irrigation
	Center pivot
	Drip-subsurface
	Drip-surface
	Flood/border
	Furrow/ditch
	Lateral/linear sprinklers
	Micro-sprinklers
	Seepage
	Side roll
	Solid set sprinklers
	Supplemental
	Surface
	Traveling gun/towline
	Wheel Line
	• Other
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
Field tillage	
Data element name: Field tillage	Reporting question: What is this field's tillage history?
Description: Prior to enrollment, what wa	as the most common tillage approach during the past 3 years?
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
6775 E	None
	Conventional, inversion
	<ul> <li>Conventional, vertical</li> </ul>
	No-till, direct seed
	<ul> <li>Reduced till, inversion</li> </ul>
	Reduced till, vertical
	Strip till
	Other
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment

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	ary for Recipients
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Data element name: Practice past extent -	Reporting question: What percent of the farm has
farm	implemented this CSAF practice (combination) previously?
에는 것 같아요. 말했다. 말하는 것 같은 것 같아요. 그는 것 같아요. 그는 것 같아요. 그는 것 같아요. 가지 않는 것 같아요. 가지 않는 것 같아요. 그는 것 같아요. 그는 것 같아요. 그는 가	ion of the whole farm had this (these) CSAF practice(s) ever beer tices are planned to be implemented in this field, enter the value
that best corresponds to the farm's prior expe	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
include cincin and category	Never used
	<ul> <li>Used on less than 25% of operation</li> </ul>
	<ul> <li>Used on 25-50% of operation</li> </ul>
	<ul> <li>Used on 51-75% of operation</li> </ul>
	<ul> <li>Used on more than 75% of operation</li> </ul>
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
ield any CSAF practice	
Data element name: Field any CSAF practice	<b>Reporting question:</b> What is this field's prior experience with CSAF practices?
Description: Prior to enrollment, have any CSA	F practice or practices been used in this field in the past 3 years
CSAF practices are included in a list in Appendi	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Yes
	• No
	I don't know
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
ractice past use - this field	
Data element name: Practice past use - this field	Reporting question: Have this CSAF practice (combination)
	been implemented previously in this field? se) CSAF practice(s) been used in this field in the in the past 3
	n used previously in this field; enter some if multiple practices and
(P) 11	all of the practices had been used previously in this field; and
enter no if none of the practices had been use	[2] 그는 것은 그 것은 것을 사람이 있는 것은 것은 것은 것은 것은 것을 만들었다. 것은 것 같은 것은 것을 다 있는 것은 것은 것은 것은 것은 것은 것을 다 있는 것을 것을 하는 것을 수 있는 것
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Yes
	Some
	• No
	I don't know
	Required: Yes
Logic: None – all respond	Required. res

Practice type	
Data element name: Practice type 1-7	<b>Reporting question:</b> What CSAF practice is being implemented in this field through the project?
project? CSAF practices are included in a list in	s will be implemented on this field as part of enrollment in the n Appendix A. The worksheet provides seven columns for this data there are fewer than 7 practices being implemented on this field
through enrollment in the project, leave unne	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values: See list in Appendix A
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
Practice standard	
Data element name: Practice standard 1-7	Reporting question: What standard does the CSAF practice follow?
Description: Is the CSAF practice being impler	mented on the field as part of enrollment in the project following a
	ovides seven columns for this data element. Enter one value for
	ypes entered in the previous columns. If there are fewer than 7
	ough enrollment in the project, leave unnecessary columns blank.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	NRCS
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
Planned practice implementation year	
Data element name: Practice 1-7	Reporting question: What year is the CSAF practice planned to
implementation year	be implemented?
	nned to be implemented on the field. Use 2022 for early adopters
project). The worksheet provides seven colum corresponding to the practice types entered in	ly implemented in 2022 (prior to contract being signed for this nns for this data element. Enter one value for each column, n the previous columns. If there are fewer than 7 practices being t in the project, leave unnecessary columns blank. Select multiple values: No
project). The worksheet provides seven colum corresponding to the practice types entered in implemented on this field through enrollment	nns for this data element. Enter one value for each column, n the previous columns. If there are fewer than 7 practices being t in the project, leave unnecessary columns blank.
project). The worksheet provides seven colum corresponding to the practice types entered in implemented on this field through enrollment <b>Data type:</b> Integer	nns for this data element. Enter one value for each column, n the previous columns. If there are fewer than 7 practices being t in the project, leave unnecessary columns blank. Select multiple values: No
project). The worksheet provides seven colum corresponding to the practice types entered in implemented on this field through enrollment <b>Data type:</b> Integer <b>Measurement unit:</b> Year	nns for this data element. Enter one value for each column, n the previous columns. If there are fewer than 7 practices being t in the project, leave unnecessary columns blank. Select multiple values: No Allowed values: 2022-2030
project). The worksheet provides seven colum corresponding to the practice types entered in implemented on this field through enrollment <b>Data type:</b> Integer <b>Measurement unit:</b> Year <b>Logic:</b> None – all respond <b>Data collection level:</b> Field	nns for this data element. Enter one value for each column, n the previous columns. If there are fewer than 7 practices being t in the project, leave unnecessary columns blank. Select multiple values: No Allowed values: 2022-2030 Required: Yes
project). The worksheet provides seven colum corresponding to the practice types entered in implemented on this field through enrollment <b>Data type:</b> Integer <b>Measurement unit:</b> Year <b>Logic:</b> None – all respond	nns for this data element. Enter one value for each column, n the previous columns. If there are fewer than 7 practices being t in the project, leave unnecessary columns blank. Select multiple values: No Allowed values: 2022-2030 Required: Yes
project). The worksheet provides seven colum corresponding to the practice types entered in implemented on this field through enrollment Data type: Integer Measurement unit: Year Logic: None – all respond Data collection level: Field Practice extent Data element name: Practice 1-7 extent	nns for this data element. Enter one value for each column, n the previous columns. If there are fewer than 7 practices being t in the project, leave unnecessary columns blank. Select multiple values: No Allowed values: 2022-2030 Required: Yes Data collection frequency: Initial enrollment Reporting question: To what extent is the practice
project). The worksheet provides seven colum corresponding to the practice types entered in implemented on this field through enrollment Data type: Integer Measurement unit: Year Logic: None – all respond Data collection level: Field Practice extent Data element name: Practice 1-7 extent Description: Total area, length, or head where	nns for this data element. Enter one value for each column, n the previous columns. If there are fewer than 7 practices being t in the project, leave unnecessary columns blank. Select multiple values: No Allowed values: 2022-2030 Required: Yes Data collection frequency: Initial enrollment Reporting question: To what extent is the practice implemented?
project). The worksheet provides seven colum corresponding to the practice types entered in implemented on this field through enrollment Data type: Integer Measurement unit: Year Logic: None – all respond Data collection level: Field Practice extent Data element name: Practice 1-7 extent Description: Total area, length, or head where contract.	nns for this data element. Enter one value for each column, n the previous columns. If there are fewer than 7 practices being t in the project, leave unnecessary columns blank. Select multiple values: No Allowed values: 2022-2030 Required: Yes Data collection frequency: Initial enrollment Reporting question: To what extent is the practice implemented? e the practice is being implemented in the field specified by the Select multiple values: No Allowed values: .01-
project). The worksheet provides seven colum corresponding to the practice types entered in implemented on this field through enrollment Data type: Integer Measurement unit: Year Logic: None – all respond Data collection level: Field Practice extent Data element name: Practice 1-7 extent Description: Total area, length, or head where contract. Data type: Decimal Measurement unit: Extent	nns for this data element. Enter one value for each column, n the previous columns. If there are fewer than 7 practices being t in the project, leave unnecessary columns blank. Select multiple values: No Allowed values: 2022-2030 Required: Yes Data collection frequency: Initial enrollment Reporting question: To what extent is the practice implemented? e the practice is being implemented in the field specified by the Select multiple values: No Allowed values: .01- 100,000
project). The worksheet provides seven colum corresponding to the practice types entered in implemented on this field through enrollment Data type: Integer Measurement unit: Year Logic: None – all respond Data collection level: Field Practice extent Data element name: Practice 1-7 extent Description: Total area, length, or head where contract. Data type: Decimal	nns for this data element. Enter one value for each column, n the previous columns. If there are fewer than 7 practices being t in the project, leave unnecessary columns blank. Select multiple values: No Allowed values: 2022-2030 Required: Yes Data collection frequency: Initial enrollment Reporting question: To what extent is the practice implemented? e the practice is being implemented in the field specified by the Select multiple values: No Allowed values: .01-

ractice extent unit	
Data element name: Practice 1-7 extent unit	Reporting question: Unit for extent of practice implementation
Description: Unit for extent of practic	ce implementation on the field specified by the contract. If "other" is
chosen, use the additional column to	enter the appropriate unit.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Acres
	<ul> <li>Head of livestock</li> </ul>
	Linear feet
	Square feet
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment

#### **CSAF Practice Sub-questions**

For certain practices, additional questions are asked that provide information necessary to estimate greenhouse gas benefits from implementation of the practice. See Table 11 in the *CSAF Practice Sub-questions* section for descriptions of individual questions to be answered depending on the CSAF practices selected.

Farm Summary

#### Unique IDs

Farm ID	Unique Farm ID assigned by FSA	
State or territory	State name (must match FSA farm enrollment data)	
County of residence	County name (must match FSA farm enrollment data)	

#### **Producer TA received**

Data element name: Producer TA received Reporting question: What types of technical assistance were 1-3 provided to this producer?

Description: Did the recipient or any partner provide technical assistance (TA) to the producer this year? Technical assistance is any training, education, capacity building or other support provided by any project partner(s) directly to producers enrolled in the project. List up to the top three most common types of TA provided to this producer. The worksheet provides three columns with a drop-down list of the allowed values. Choose one value for each column. If there are fewer than 3 TA types, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other TA types as free text.

#### Data type: List

Select multiple values: No

#### Measurement unit: Category

START WARD AND YOU WARD ACCOUNT ALL SAMPLE AND	<ul> <li>Provide a second se Second second second second second se</li></ul>
Measurement unit: Category	Allowed values:
new desire and the contraction of the second definition of the second second to the second second second second	Demonstration plots
	Equipment demonstrations
	<ul> <li>Group field days or in-person field workshops</li> </ul>
	Hotline
	<ul> <li>One-on-one enrollment assistance</li> </ul>
	One-on-one field visits
	One-on-one producer mentorship
	<ul> <li>Producer networks and peer-to-peer groups</li> </ul>
	Retailer consultation
	<ul> <li>Social media/digital tools</li> </ul>
	<ul> <li>Train-the-trainer opportunities</li> </ul>
	<ul> <li>Virtual meetings or field days</li> </ul>
	<ul> <li>Webinars and videos</li> </ul>
	Written materials
	None
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Quarterly
Producer incentive amount	
Data element name: Producer incentive	Reporting question: What is the total value of financial
amount	incentives provided to this producer?
	ved by the producer from USDA project funds for the year (non-
cumulative). Do not include incentive paym	· 2 AND 10 (19) / A 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2 M 2
Data type: Decimal	Select multiple values: NA
Measurement unit: Dollars	Allowed values: \$0-\$5,000,000
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Quarterly

ncentive reason	
Data element name: Incentive reason 1-4	Reporting question: Why were incentives provided to this producer?
incentive for each reason. The worksheet p	ducer incentive payments. List the top 4 based on total value of the rovides four columns with a drop-down list of the allowed values. are fewer than 4 reasons, leave unnecessary columns blank. If
Measurement unit: Category	Allowed values: • Avoided conversion
Logic: None – all respond	<ul> <li>Conference or training attendance</li> <li>Demographics/equity payment</li> <li>Enrollment</li> <li>Foregone revenue</li> <li>Historic data collection</li> <li>Identity preservation (supply chain tracing)</li> <li>Implementation of practices</li> <li>MMRV (e.g., data collection, reporting)</li> <li>Passing audit</li> <li>Price premium on output</li> <li>Yield change</li> <li>Other (specify)</li> <li>Required: Yes</li> </ul>
Data collection level: Producer	Data collection frequency: Quarterly
ncentive structure	Data concerion nequency. Quarterly
Data element name: Incentive structure 1-4	4 Reporting question: What are the units for the financial incentives provided to this producer?
producers. Production unit is weight or volu with a drop-down list of the allowed values	esponding to the top 4 (by dollar value) incentive payments to ume (bushel, kilogram, ton). The worksheet provides four columns . Choose one value for each column. If there are fewer than 4 s blank. If "other" is chosen, use the additional column to enter othe Select multiple values: No
	24
Measurement unit: Category	Allowed values: Flat rate Per animal head Per area Per length Per production unit Per ton GHG Per tree Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Broducor	Data collection from on our Quarterly

Data collection level: Producer Data collection frequency: Quarterly

Data element name: Incentive type 1-4	
	<b>Reporting question:</b> What type of incentives were provided to each producer?
Description: List the top 4 types of incent	tive payments to producers (based on dollar value). The worksheet
	list of the allowed values. Choose one value for each column. If there
	nnecessary columns blank. If "other" is chosen, use the additional
column to enter other incentive types as	
Data type: List	Select multiple values: No
	Allowed values:
Measurement unit: Category	Cash payment
	<ul> <li>Guaranteed commodity premium payment</li> </ul>
	Inputs and supplies
	Land rental
	• Loan
	Paid labor
	Post-harvest transportation
	Tuition or fees for training
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Quarterly
Payment on enrollment	
Data element name: Payment on	Reporting question: What portion of the financial incentive is
enrollment	provided to the producer upon enrollment in the project?
Description: Any incentive payment prov	ided to the producer upon enrollment/signing a contract, and not
related to any implementation, MMRV or	r sales activities. Full payment means the full incentive amount for any
contract held by the producer is paid upo	on enrollment. Partial payment means that only part of the full
incentive amount for any contract held by	y the producer is paid upon enrollment. No payment means that none
of the full incentive amount for any contr	
	dechera by the producer is para apon emoniterit.
Data type: List	Select multiple values: No
Data type: List	Select multiple values: No
	Select multiple values: No Allowed values:
Data type: List	Select multiple values: No Allowed values: • Full payment
Data type: List	Select multiple values: No Allowed values: • Full payment • Partial payment
Data type: List Measurement unit: Category	Select multiple values: No Allowed values: • Full payment • Partial payment • No payment
Data type: List Measurement unit: Category Logic: None – all respond	Select multiple values: No Allowed values: • Full payment • Partial payment • No payment Required: Yes
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer	Select multiple values: No Allowed values: • Full payment • Partial payment • No payment
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on implementation	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on implementation Data element name: Payment on	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on implementation Data element name: Payment on implementation	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to the producer upon implementation of the practices
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on implementation Data element name: Payment on implementation Description: Any incentive payment provi	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to the producer upon implementation of the practices ided to the producer upon implementing the practices included in the
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on implementation Data element name: Payment on implementation Description: Any incentive payment provision contract. Full payment means the full ince	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to the producer upon implementation of the practices ided to the producer upon implementing the practices included in the entive amount for any contract held by the producer is paid upon
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on implementation Data element name: Payment on implementation Description: Any incentive payment provi contract. Full payment means the full ince implementation. Partial payment means the	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on implementation Data element name: Payment on implementation Description: Any incentive payment provi contract. Full payment means the full ince implementation. Partial payment means the producer is paid upon implementation. N	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to the producer upon implementation of the practices ided to the producer upon implementing the practices included in the entive amount for any contract held by the producer is paid upon that only part of the full incentive amount for any contract held by the lo payment means that none of the full incentive amount for any
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on implementation Data element name: Payment on implementation Description: Any incentive payment provi contract. Full payment means the full ince implementation. Partial payment means the producer is paid upon implementation. N contract held by the producer is paid upo	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to the producer upon implementation of the practices ided to the producer upon implementing the practices included in the entive amount for any contract held by the producer is paid upon that only part of the full incentive amount for any contract held by the lo payment means that none of the full incentive amount for any on implementation.
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on implementation Data element name: Payment on implementation Description: Any incentive payment provi contract. Full payment means the full ince implementation. Partial payment means the producer is paid upon implementation. N	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to the producer upon implementation of the practices ided to the producer upon implementing the practices included in the entive amount for any contract held by the producer is paid upon that only part of the full incentive amount for any contract held by the lo payment means that none of the full incentive amount for any
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on implementation Data element name: Payment on implementation Description: Any incentive payment provi contract. Full payment means the full ince implementation. Partial payment means the producer is paid upon implementation. N contract held by the producer is paid upo	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to the producer upon implementation of the practices ided to the producer upon implementing the practices included in the entive amount for any contract held by the producer is paid upon that only part of the full incentive amount for any contract held by the lo payment means that none of the full incentive amount for any on implementation.
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on implementation Data element name: Payment on implementation Description: Any incentive payment provi contract. Full payment means the full ince implementation. Partial payment means to producer is paid upon implementation. N contract held by the producer is paid upo Data type: List	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to the producer upon implementation of the practices ided to the producer upon implementing the practices included in the entive amount for any contract held by the producer is paid upon that only part of the full incentive amount for any contract held by the lo payment means that none of the full incentive amount for any on implementation. Select multiple values: No
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on implementation Data element name: Payment on implementation Description: Any incentive payment provi contract. Full payment means the full ince implementation. Partial payment means to producer is paid upon implementation. N contract held by the producer is paid upo Data type: List	Select multiple values: No Allowed values: • Full payment • Partial payment • No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to the producer upon implementation of the practices ided to the producer upon implementing the practices included in the entive amount for any contract held by the producer is paid upon that only part of the full incentive amount for any contract held by the lo payment means that none of the full incentive amount for any on implementation. Select multiple values: No Allowed values: • Full payment
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on implementation Data element name: Payment on implementation Description: Any incentive payment provi contract. Full payment means the full ince implementation. Partial payment means the producer is paid upon implementation. N contract held by the producer is paid upo Data type: List	Select multiple values: No Allowed values: • Full payment • Partial payment • No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to the producer upon implementation of the practices ided to the producer upon implementing the practices included in the entive amount for any contract held by the producer is paid upon that only part of the full incentive amount for any contract held by the lo payment means that none of the full incentive amount for any on implementation. Select multiple values: No Allowed values: • Full payment • Partial payment
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on implementation Data element name: Payment on implementation Description: Any incentive payment provi contract. Full payment means the full ince implementation. Partial payment means to producer is paid upon implementation. N contract held by the producer is paid upo Data type: List	Select multiple values: No Allowed values: • Full payment • Partial payment • No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to the producer upon implementation of the practices ided to the producer upon implementing the practices included in the entive amount for any contract held by the producer is paid upon that only part of the full incentive amount for any contract held by the lo payment means that none of the full incentive amount for any on implementation. Select multiple values: No Allowed values: • Full payment

Payment on harvest	
Data element name: Payment on harvest	Reporting question: What portion of the financial incentive is
	provided to the producer upon harvest of the commodity?
	ed to the producer upon harvesting or slaughtering the commodity
	ns the full incentive amount for any contract held by the producer is
R (5)	that only part of the full incentive amount for any contract held by
	nent means that none of the full incentive amount for any contract
held by the producer is paid upon harvest.	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Full payment
	Partial payment
	No payment
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Quarterly
Payment on MMRV	
Data element name: Payment on MMRV	Reporting question: What portion of the financial incentive is
	provided to the producer upon completing MMRV
	requirements?
	ed to the producer upon completing the annual MMRV requirements
52 152	ns the full incentive amount for any contract held by the producer is
	ayment means that only part of the full incentive amount for any
contract held by the producer is paid upon	MMRV being complete. No payment means that none of the full
contract held by the producer is paid upon incentive amount for any contract held by t	MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete.
contract held by the producer is paid upon	MMRV being complete. No payment means that none of the full
contract held by the producer is paid upon incentive amount for any contract held by t	MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete. Select multiple values: No Allowed values:
contract held by the producer is paid upon incentive amount for any contract held by t Data type: List	MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete. Select multiple values: No Allowed values: • Full payment
contract held by the producer is paid upon incentive amount for any contract held by t Data type: List	<ul> <li>MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete.</li> <li>Select multiple values: No</li> <li>Allowed values: <ul> <li>Full payment</li> <li>Partial payment</li> </ul> </li> </ul>
contract held by the producer is paid upon incentive amount for any contract held by t Data type: List Measurement unit: Category	<ul> <li>MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete.</li> <li>Select multiple values: No</li> <li>Allowed values: <ul> <li>Full payment</li> <li>Partial payment</li> <li>No payment</li> </ul> </li> </ul>
contract held by the producer is paid upon incentive amount for any contract held by t Data type: List	<ul> <li>MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete.</li> <li>Select multiple values: No</li> <li>Allowed values: <ul> <li>Full payment</li> <li>Partial payment</li> </ul> </li> </ul>
contract held by the producer is paid upon incentive amount for any contract held by t Data type: List Measurement unit: Category	<ul> <li>MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete.</li> <li>Select multiple values: No</li> <li>Allowed values: <ul> <li>Full payment</li> <li>Partial payment</li> <li>No payment</li> </ul> </li> </ul>
contract held by the producer is paid upon incentive amount for any contract held by t Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale	<ul> <li>MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete.</li> <li>Select multiple values: No</li> <li>Allowed values: <ul> <li>Full payment</li> <li>Partial payment</li> <li>No payment</li> <li>Required: Yes</li> </ul> </li> <li>Data collection frequency: Quarterly</li> </ul>
contract held by the producer is paid upon incentive amount for any contract held by t Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer	MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete. Select multiple values: No Allowed values: • Full payment • Partial payment • No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is
contract held by the producer is paid upon incentive amount for any contract held by t Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale	MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete. Select multiple values: No Allowed values: • Full payment • Partial payment • No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity?
contract held by the producer is paid upon incentive amount for any contract held by t Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provide	MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete. Select multiple values: No Allowed values: • Full payment • Partial payment • No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? ed to the producer upon sale of the commodity included in the
contract held by the producer is paid upon incentive amount for any contract held by t Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provid contract. Full payment means the full incention	MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete. Select multiple values: No Allowed values: • Full payment • Partial payment • No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? ed to the producer upon sale of the commodity included in the ntive amount for any contract held by the producer is paid upon sale.
contract held by the producer is paid upon incentive amount for any contract held by t Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provid contract. Full payment means the full incen Partial payment means that only part of the	MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete. Select multiple values: No Allowed values: • Full payment • Partial payment • No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? ed to the producer upon sale of the commodity included in the ntive amount for any contract held by the producer is paid upon sale. e full incentive amount for any contract held by the producer is paid
contract held by the producer is paid upon incentive amount for any contract held by to Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provid contract. Full payment means the full incent Partial payment means that only part of the upon sale. No payment means that none of	MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete. Select multiple values: No Allowed values: • Full payment • Partial payment • No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? ed to the producer upon sale of the commodity included in the ntive amount for any contract held by the producer is paid upon sale.
contract held by the producer is paid upon incentive amount for any contract held by to Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provid contract. Full payment means the full incen Partial payment means that only part of the upon sale. No payment means that none of paid upon sale.	MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete. Select multiple values: No Allowed values: • Full payment • Partial payment • No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? ed to the producer upon sale of the commodity included in the ntive amount for any contract held by the producer is paid upon sale. e full incentive amount for any contract held by the producer is paid f the full incentive amount for any contract held by the producer is
contract held by the producer is paid upon incentive amount for any contract held by to Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provid contract. Full payment means the full incent Partial payment means that only part of the upon sale. No payment means that none of paid upon sale. Data type: List	MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete. Select multiple values: No Allowed values: • Full payment • Partial payment • No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? ed to the producer upon sale of the commodity included in the ntive amount for any contract held by the producer is paid f the full incentive amount for any contract held by the producer is Select multiple values: No
contract held by the producer is paid upon incentive amount for any contract held by to Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provid contract. Full payment means the full incen Partial payment means that only part of the upon sale. No payment means that none of paid upon sale.	MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete. Select multiple values: No Allowed values: • Full payment • Partial payment • No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? ed to the producer upon sale of the commodity included in the ntive amount for any contract held by the producer is paid f the full incentive amount for any contract held by the producer is paid f the full incentive amount for any contract held by the producer is Select multiple values: No Allowed values:
contract held by the producer is paid upon incentive amount for any contract held by t Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provid contract. Full payment means the full incen Partial payment means that only part of the upon sale. No payment means that none of paid upon sale. Data type: List	MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete. Select multiple values: No Allowed values: • Full payment • Partial payment • No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? ed to the producer upon sale of the commodity included in the ntive amount for any contract held by the producer is paid upon sale. e full incentive amount for any contract held by the producer is paid f the full incentive amount for any contract held by the producer is Select multiple values: No Allowed values: • Full payment
contract held by the producer is paid upon incentive amount for any contract held by t Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provid contract. Full payment means the full incen Partial payment means that only part of the upon sale. No payment means that none of paid upon sale. Data type: List	MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete. Select multiple values: No Allowed values: • Full payment • Partial payment • No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? ed to the producer upon sale of the commodity included in the netive amount for any contract held by the producer is paid upon sale. e full incentive amount for any contract held by the producer is paid f the full incentive amount for any contract held by the producer is Select multiple values: No Allowed values: • Full payment • Partial payment
contract held by the producer is paid upon incentive amount for any contract held by to Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provid contract. Full payment means the full incen Partial payment means that only part of the upon sale. No payment means that none of paid upon sale. Data type: List Measurement unit: Category	MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete. Select multiple values: No Allowed values: • Full payment • Partial payment • No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? ed to the producer upon sale of the commodity included in the ntive amount for any contract held by the producer is paid upon sale. e full incentive amount for any contract held by the producer is paid f the full incentive amount for any contract held by the producer is Select multiple values: No Allowed values: • Full payment • Partial payment • No payment
contract held by the producer is paid upon incentive amount for any contract held by to Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provid contract. Full payment means the full incent Partial payment means that only part of the upon sale. No payment means that none of paid upon sale. Data type: List	MMRV being complete. No payment means that none of the full the producer is paid upon MMRV being complete. Select multiple values: No Allowed values: • Full payment • Partial payment • No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? ed to the producer upon sale of the commodity included in the netive amount for any contract held by the producer is paid upon sale. e full incentive amount for any contract held by the producer is paid f the full incentive amount for any contract held by the producer is Select multiple values: No Allowed values: • Full payment • Partial payment

Unique IDs		
Farm ID Ur	nique Farm ID assigned by FSA	
Tract ID Ur	nique Tract ID assigned by FSA	
Field ID Ur	nique Field ID assigned by FSA	
State or territory of field St	ate name (must match FSA farm enrollment data)	
County of field Co	County name (must match FSA farm enrollment data)	
Commodity type		
Data element name: Commodity type	<b>Reporting question:</b> What type of commodity is produced from this field?	
	d in field enrolled in the project. See full list in Appendix B. The	
	th a drop-down list of the allowed values. Choose one value for each	
column. Leave unnecessary columns blan		
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values: FSA commodity list	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	
Practice type		
this project? CSAF practices are included	1-7 Reporting question: What CSAF practice is being implemented in this field through the project? ture or forestry (CSAF) practice or practices are being implemented in in a list in Appendix A. The worksheet provides seven columns for this olumn. If there are fewer than 7 practices being implemented on this	
field through enrollment in the project, le <b>Data type:</b> List		
Measurement unit: Category	Allowed values: See list in Appendix A	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	
Date practice complete		
Data element name: Date practice comp	implementation as complete?	
Use January of the year prior to contract implemented in the year prior to a contra seven columns for this data element. Ent	es that implementation of the CSAF practice is complete on the field. year for early adopters, defined as fields that have the practice actively act associated with this project is signed). The worksheet provides er one value for each column, corresponding to the practice types are fewer than 7 practices being implemented on this field through sary columns blank. Select multiple values: No	
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023 – 12/31/2030	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	

Contract end date		
Data element name: Contract end date	Reporting question: Contract end date	
submit updated end date during the next quarte		
Data type: Date	Select multiple values: No	
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023 – 12/31/2030	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	
MMRV assistance provided		
Data element name: MMRV assistance provided	Reporting question: Was MMRV assistance provided?	
includes in-field support for the use of technolog support related to MMRV. MMRV is defined a m- monitoring (ongoing review and confirmation that to the agreed upon standard and documentation impacts over time), reporting (documenting and partners, the recipient, and any third-party verifi	d to the primary operator for this field? MMRV assistance gies, consultation on data collection and input, and other easurement (calculations or estimations of GHG emissions), at the climate-smart practice has been implemented according n of any changes in the site, implementation, or GHG emissions sharing monitoring and measurement results with project ication organization), and verification (independent d reporting information are complete, accurate and reliable). Select multiple values: No	
Measurement unit: Category	Allowed values:	
<b>3</b> <i>i</i>	Yes	
	• No	
	I don't know	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	
Marketing assistance provided		
Data element name: Marketing assistance provid	ded Reporting question: Was marketing assistance provided?	
from this field? Marketing assistance includes gu	ided to the primary operator for the commodity(ies) produced laranteeing the sale of the commodity(ies), providing a platform abel, branding, or other support related to marketing. Select multiple values: No	
Measurement unit: Category	Allowed values:	
	• Yes	
	• No	
	<ul><li>No</li><li>I don't know</li></ul>	
Logic: None – all respond	<ul> <li>No</li> <li>I don't know</li> <li>Required: Yes</li> </ul>	
Data collection level: Field	<ul><li>No</li><li>I don't know</li></ul>	
Data collection level: Field ncentive per acre or head	<ul> <li>No</li> <li>I don't know</li> <li>Required: Yes</li> <li>Data collection frequency: Quarterly</li> </ul>	
Data collection level: Field ncentive per acre or head Data element name: Incentive per acre or head	<ul> <li>No         <ul> <li>I don't know</li> <li>Required: Yes</li> <li>Data collection frequency: Quarterly</li> </ul> </li> <li>Reporting question: Is this field receiving a per-acre or per-head incentive?</li> </ul>	
Data collection level: Field ncentive per acre or head Data element name: Incentive per acre or head Description: Is this field receiving an incentive pa	<ul> <li>No         <ul> <li>I don't know</li> <li>Required: Yes</li> <li>Data collection frequency: Quarterly</li> </ul> </li> <li>Reporting question: Is this field receiving a per-acre or per-head incentive?</li> </ul>	
Data collection level: Field ncentive per acre or head Data element name: Incentive per acre or head Description: Is this field receiving an incentive pa on a per-acre or per-head (livestock) basis?	<ul> <li>No         <ul> <li>I don't know</li> <li>Required: Yes</li> <li>Data collection frequency: Quarterly</li> </ul> </li> <li>Reporting question: Is this field receiving a per-acre or per-head incentive?         <ul> <li>ayment to implement a specific CSAF practice or set of practices</li> </ul> </li> </ul>	
Data collection level: Field ncentive per acre or head Data element name: Incentive per acre or head Description: Is this field receiving an incentive pa on a per-acre or per-head (livestock) basis? Data type: List	<ul> <li>No</li> <li>I don't know</li> <li>Required: Yes</li> <li>Data collection frequency: Quarterly</li> <li>Reporting question: Is this field receiving a per-acre or per-head incentive?</li> <li>ayment to implement a specific CSAF practice or set of practices</li> <li>Select multiple values: No</li> </ul>	
Data collection level: Field ncentive per acre or head Data element name: Incentive per acre or head Description: Is this field receiving an incentive pa on a per-acre or per-head (livestock) basis?	<ul> <li>No         <ul> <li>I don't know</li> <li>Required: Yes</li> <li>Data collection frequency: Quarterly</li> </ul> </li> <li>Reporting question: Is this field receiving a per-acre or per-head incentive?         <ul> <li>ayment to implement a specific CSAF practice or set of practices</li> <li>Select multiple values: No</li></ul></li></ul>	
Data collection level: Field ncentive per acre or head Data element name: Incentive per acre or head Description: Is this field receiving an incentive pa on a per-acre or per-head (livestock) basis? Data type: List	<ul> <li>No         <ul> <li>I don't know</li> <li>Required: Yes</li> <li>Data collection frequency: Quarterly</li> </ul> </li> <li>Reporting question: Is this field receiving a per-acre or per-head incentive?         <ul> <li>ayment to implement a specific CSAF practice or set of practices</li> <li>Select multiple values: No</li></ul></li></ul>	
Data collection level: Field Incentive per acre or head Data element name: Incentive per acre or head Description: Is this field receiving an incentive pa on a per-acre or per-head (livestock) basis? Data type: List	<ul> <li>No         <ul> <li>I don't know</li> <li>Required: Yes</li> <li>Data collection frequency: Quarterly</li> </ul> </li> <li>Reporting question: Is this field receiving a per-acre or per-head incentive?         <ul> <li>ayment to implement a specific CSAF practice or set of practices</li> <li>Select multiple values: No</li></ul></li></ul>	
Data collection level: Field ncentive per acre or head Data element name: Incentive per acre or head Description: Is this field receiving an incentive pa on a per-acre or per-head (livestock) basis? Data type: List	<ul> <li>No</li> <li>I don't know</li> <li>Required: Yes</li> <li>Data collection frequency: Quarterly</li> <li>Reporting question: Is this field receiving a per-acre or per-head incentive?</li> <li>ayment to implement a specific CSAF practice or set of practices</li> <li>Select multiple values: No</li> <li>Allowed values:         <ul> <li>Yes</li> <li>No</li> </ul> </li> </ul>	

Field commodity value	
Data element name: Field commodity value	<b>Reporting question:</b> What is the value of the commodity produced on the enrolled field?
Description: The dollar value of the commodity p	
Data type: Decimal	Select multiple values: No
Measurement unit: Dollars	Allowed values: \$1-\$10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Field commodity volume	
Data element name: Field commodity volume	<b>Reporting question:</b> What is the volume of commodity produced on the enrolled field?
Description: The volume of the commodity prod	uced on the enrolled field
Data type: Decimal	Select multiple values: No
Measurement unit: Number	Allowed values: 1-10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Field commodity volume unit	
Data element name: Field commodity volume	Reporting question: What is the unit of volume?
Data element name: Field commodity volume unit	e of the commodity produced on the enrolled field. If "other" is
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Tons
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List Measurement unit: Category	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Tons Other (specify)
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Tons
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Tons Other (specify) Required: Yes
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Tons Other (specify) Required: Yes
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List Measurement unit: Category Measurement unit: Category Data collection level: Field Cost of implementation Data element name: Cost of implementation	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Tons Other (specify) Required: Yes Data collection frequency: Quarterly Reporting question: What is the cost of practice
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List Measurement unit: Category Measurement unit: Category Data collection level: Field Cost of implementation Data element name: Cost of implementation	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Tons Other (specify) Required: Yes Data collection frequency: Quarterly Reporting question: What is the cost of practice implementation in the field?
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List Measurement unit: Category Measurement unit: Category Logic: None – all respond Data collection level: Field Cost of implementation Data element name: Cost of implementation Description: Total annual estimated cost per uni	e of the commodity produced on the enrolled field. If "other" i ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Tons Other (specify) Required: Yes Data collection frequency: Quarterly Reporting question: What is the cost of practice implementation in the field? t of implementing the practice(s) in the enrolled field.
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List Measurement unit: Category Measurement unit: Category Data collection level: Field Cost of implementation Data element name: Cost of implementation Description: Total annual estimated cost per uni Data type: Decimal	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Tons Other (specify) Required: Yes Data collection frequency: Quarterly Reporting question: What is the cost of practice implementation in the field? t of implementing the practice(s) in the enrolled field. Select multiple values: No

Cost unit	
Data element name: Cost unit	Reporting question: What is the unit for cost?
enter the appropriate value in the addition	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Per acre
	Per bushel
	Per head
	Per linear foot
	Per pound
	Per ton     Other (creatify)
Lesia Nega all sourced	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Cost coverage	
Data element name: Cost coverage	Reporting question: What percent of the practice cost is
	covered by the incentive?
incentives.	annual cost of implementing the practice(s) that is covered by project
Data type: Integer	Select multiple values: No
Measurement unit: Percent	Allowed values: 0-100
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Field GHG monitoring	
Data element name: Field GHG monitoring 1-3	g Reporting question: How were GHG impacts monitored in this field?
is defined as ongoing review and confirmat to the agreed upon standard and documer impacts over time. Include up to 3 method The worksheet provides three columns wit column. If fewer than 3 GHG monitoring m	monitoring GHG benefits as part of MMRV requirements. Monitoring tion that the climate-smart practice has been implemented according natation of any changes in the site, implementation, or GHG emissions is, based on which methods are most commonly used for this field. It a drop-down list of the allowed values. Choose one value for each nethods are used, leave unnecessary columns blank. If "other" is r other GHG monitoring methods as free text. Select multiple values: No
Measurement unit: Category	Allowed values:
	Drones
	Ground-level photos and videos
	On-farm inspection
	<ul> <li>Plot-based sampling (e.g., soil, water)</li> </ul>
	Producer records or attestation
	Satellite monitoring or remote sensing     Sail motogenemics
	Soil metagenomics     Soil concorr
	<ul> <li>Soil sensors</li> <li>Water sensors</li> </ul>
	<ul> <li>Water sensors</li> <li>Other (specify)</li> </ul>
Logic: None - all recoord	
Logic: None – all respond Data collection level: Field	Required: Yes Data collection frequency: Quarterly

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ield GHG reporting	
Data element name: Field GHG reporting	Reporting question: How were GHG benefits reported for this field?
1-3 Description: Up to the ten three forms of	reporting on GHG benefits as part of MMRV requirements. Reporting
is defined as documenting and sharing mo recipient, and any third-party verification most commonly used for this field. The wo values. Choose one value for each column	onitoring and measurement results with project partners, the organization. Include up to 3 methods, based on which methods are orksheet provides three columns with a drop-down list of the allowed . If fewer than 3 GHG reporting methods are used, leave unnecessary ne additional column to enter other GHG reporting methods as free
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Automated devices
	Email
	Mobile app
	Paper
	Third-party actors
	Website
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
ield GHG verification	
Data element name: Field GHG verificatio	26
defined as independent confirmation that accurate and reliable. Include up to 3 met The worksheet provides three columns wi column. If fewer than 3 GHG verification r chosen, use the additional column to ente <b>Data type:</b> List	reduce GHG emissions verified for this field? ation of GHG benefits as part of MMRV requirements. Verification is measurement, monitoring and reporting information are complete, hods, based on which methods are most commonly used for this field th a drop-down list of the allowed values. Choose one value for each nethods are used, leave unnecessary columns blank. If "other" is er other GHG verification methods as free text. Select multiple values: No
Measurement unit: Category	Allowed values:
	Artificial intelligence
	Computer modeling
	Recipient audit
	<ul> <li>Photos</li> <li>Record audit</li> </ul>
	Satellite imagery
	Site of field visit
	<ul> <li>Site or field visit</li> <li>Third-party audit</li> </ul>
	Third-party audit
Logic: None – all respond	

Reporting question: What methods are used to calculate GHG
benefits in this field?
lculate GHG benefits in this field. If yes to direct physical
Supplemental Data Submission – Field direct GHG measurement
Select multiple values: No
Allowed values:
Models
<ul> <li>Direct field measurements</li> </ul>
• Both
Required: Yes
Data collection frequency: Quarterly
<b>Reporting question:</b> What method was used to calculate the official GHG benefits in this field?
late the official GHG benefits in this field that are reported as part of
Select multiple values: No
Allowed values:
Models
<ul> <li>Direct field measurements</li> </ul>
Required: Yes
Data collection frequency: Quarterly
Reporting question: What are the estimated total GHG emission
reductions (CO2eq) in this field?
mission reductions from practice implementation in this field that are e impact. This data element must be entered upon practice completion
Select multiple values: No
Allowed values: 0-10,000,000
Required: Yes
Data collection frequency: Quarterly
<b>Reporting question:</b> How much carbon has been sequestered in this field?
rbon stock based on practice implementation in this field. This data
nd is cumulative for the year. Conversion rate is one ton of carbon =
Select multiple values: No
Allowed values: 0-10,000,000
15.1 G
Required: Yes

Field official CO2 ER	
Data element name: Field official CO2	Reporting question: What are the estimated total CO2 emissio reductions in this field?
emission reductions	e emission reductions based on practice implementation in this field
that are reported as part of the project's ag	ggregate impact. This data element must be entered upon practice
completion or annually, as appropriate.	(e to have have before the formal latter)
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO <sub>2</sub>	Allowed values: 0-10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Field official CH4 ER	
Data element name: Field official CH4 emis reductions	ssion Reporting question: What are the estimated total CH4 emission reductions in this field?
- construction and an additional state of the second state of the second state of the second s	sion reductions based on practice implementation in this field that
	ate impact. This data element must be entered upon practice
	nversion rate is one ton of $CH_4 = 25$ tons of $CO_2eq$ .
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CH4 reduce CO <sub>2</sub> eq	ed in Allowed values: 0-10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Field official N20 ER	
Data element name: Field official N2O emi reductions	ssion <b>Reporting question:</b> What are the estimated total N2O emission reductions in this field?
Description: Estimated total nitrous oxide (	emission reductions based on practice implementation in this field
5	ggregate impact. This data element must be entered upon practice
completion or annually, as appropriate. Con	nversion rate is one ton of $N_2O = 298$ tons of $CO_2eq$ .
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons N2O reduc	red in Allowed values: 0-10,000,000
CO <sub>2</sub> eq	
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Field offsets produced	
Data element name: Field offsets produced	d Reporting question: How many carbon offsets have been produced in this field?
	in the field during the quarter (not cumulative). Offsets are defined
<ul> <li>Standard and structure of the section of the sector structure and the sector sector structure sector.</li> </ul>	an accepted standard and sold into the carbon marketplace.
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: Yes
	Data collection frequency: Quarterly

Field insets produced	
Data element name: Field insets produced	Reporting question: How many carbon insets have been produced in this field?
	the field during the quarter (not cumulative). Insets are defined as ccepted standard and accounted for within Scope 3 emissions for a
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Other field measurement	
Data element name: Other field measurement	Reporting question: Were data collected from the field for reasons other than GHG benefit estimation?
benefits estimation. These reasons could incle environmental benefits (see Field environme corresponding reports (see <i>Supplemental da</i>	or data collection taken in the field for any reason other than GHG lude calibration of GHG estimation tools or models, tracking other ental benefits report), and other reasons. If yes, submit ta submission - Field direct measurement results).
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values: • Yes • No • I don't know
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly

### GHG Benefits - Alternate Modeled

Farm ID	Uniq	ue Farm ID assigned by FSA
Tract ID	Uniq	ue Tract ID assigned by FSA
Field ID	Uniq	ue Field ID assigned by FSA
State or territory of field	State	name (must match FSA farm enrollment data)
County of field	County name (must match FSA farm enrollment data)	
Commodity type		
Data element name: Commodity	type 1-6	<b>Reporting question:</b> What type of commodity(ies) is produced from this field?
in Appendix B. The worksheet proof one value for each column. Leave	ovides mult	
Data type: List		Select multiple values: No
Measurement unit: Category		Allowed values: FSA commodity list
Logic: None – all respond		Required: If project calculates GHG benefits using multiple methods
Data collection level: Field		Data collection frequency: Annual
Practice type		
Data element name: Practice typ	e 1-7	<b>Reporting question:</b> What CSAF practice is being implemented by this project?
included in a list in Appendix A. T	he workshe	es are being implemented in this project? CSAF practices are eet provides seven columns for this data element. Enter one value ractices being implemented by the project, leave unnecessary
Data type: List		Select multiple values: No
Measurement unit: Category		Allowed values: See list in Appendix A
Logic: None – all respond		<b>Required:</b> If project calculates GHG benefits using multiple methods
Data collection level: Field		Data collection frequency: Annual

iHG model Data element name: GHG model	Reporting question: What model was used for alternate calculation of GHG benefit		
	1/511 FEE 51		
	d for the alternate calculation of the field's GHG benefits.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	ACC Calculator		
	<ul> <li>Agriculture, Forestry and Other Land Use (AFOLU) Carbon Calculator</li> </ul>		
	AIRES		
	APEX		
	Bowen Ratio Energy Balance     Great Calculator		
	Carat-Calculator     Carat-Calculator		
	CArPE     CDFA web based calculates		
	CDFA web-based calculator     COMET-Farm		
	COMET-Farm     COMET-Planner		
	CoolFarm		
	Cover Crop Explore		
	CropTrak		
	CultivateAl's FMIS		
	DayCent-CR		
	• DNDC		
	• DSSAT		
	Earth Optics		
	EcoPractices		
	EPIC		
	<ul> <li>Extrapolation based on literature</li> </ul>		
	FieldPrint		
	Granular		
	GREET		
	• gTIR		
	IFSM		
	<ul> <li>IPCC default emissions factors &amp; models</li> </ul>		
	• itree		
	Nitrogen Balance		
	<ul> <li>Nutrient Tracking Tool (NTT)</li> </ul>		
	RCD Project Tracker		
	<ul> <li>Revised Universal Soil Loss equation 2 (RUSLE2)</li> </ul>		
	RuFaS		
	SAFE-Link		
	SALUS (CIBO)		
	SNAPGRAZE		
	SquareRoots		
	SWAT-C     SWAT-C		
	SYMFONI		
	Truterra Sustainability Tool		
	Verra     MEDD		
	WEPP     VendStiele		
	YardStick     Other (specify)		
Logic: Nono - all second	<ul> <li>Other (specify)</li> <li>Required: If project calculates GHG benefits using multiple methods</li> </ul>		
Logic: None – all respond Data collection level: Field	Data collection frequency: Annual		

Model start date	
Data element name: Model start date	<b>Reporting question:</b> For what time period are the GHG benefits modeled (model start date)?
Description: Date that the model parameter	s begin.
Data type: Date	Select multiple values: NA
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/1950 – 12/31/2030
Logic: None – all respond	<b>Required:</b> If project calculates GHG benefits using multiple methods
Data collection level: Field	Data collection frequency: Annual
Model end date	
Data element name: Model end date	<b>Reporting question:</b> For what time period are the GHG benefits modeled (model end date)?
Description: Date that the model parameter	rs end.
Data type: Date	Select multiple values: NA
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023- 12/31/2030
Logic: None – all respond	<b>Required:</b> If project calculates GHG benefits using multiple methods
Data collection level: Field	Data collection frequency: Annual
Total GHG benefits estimated	
Data element name: Total GHG benefits estimated	Reporting question: What is the alternate estimate of the field' total GHG emission reductions?
<b>Description:</b> Total greenhouse gas emission using an alternate model.	reductions from practice implementation in the field estimated
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods
Data collection level: Field	Data collection frequency: Annual
Total carbon stock estimated	
Data element name: Total carbon stock estimated	Reporting question: What is the alternate estimate of how muc carbon has the field has sequestered?
	used on practice implementation in the field estimated using an
alternate model. Conversion rate is one ton	전경하기는 그녀면 '에게 이상상상 방송'는 강경, 정도와 가격하는 것은 것 같아요. 가격이 있는 것 같아요. 이상 것 않는 것은 것은 것 같아요. 한 것은 것 같아요. 한 것 같아요. 한 것 같아요.
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods
Data collection level: Field	Data collection frequency: Annual
Total CO2 estimated	
Data element name: Total CO2 estimated	<b>Reporting question:</b> What is the alternate estimate of the field total CO2 emission reductions?
<b>Description:</b> Total carbon dioxide emission r using an alternate model.	eductions based on practice implementation in the field estimated
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO2	Allowed values: 0-10,000,000
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods
Data collection level: Field	Data collection frequency: Annual



Fotal CH4 estimated	
Data element name: Total CH4 estimated	<b>Reporting question:</b> What is the alternate estimate of the field's total CH4 emission reductions?
<b>Description:</b> Total methane emission reductions based on pracan alternate model. Conversion rate is one ton of CH <sub>4</sub> = 25 ton	
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CH4 reduced in CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	<b>Required:</b> If project calculates GHG benefits using multiple methods
Data collection level: Field	Data collection frequency: Annual
otal field N20 estimated	
Data element name: Total N2O estimated	<b>Reporting question:</b> What is the alternate estimate of the field's total N2O emission reductions?
<b>Description:</b> Total nitrous oxide emission reductions based on using an alternate method. Conversion rate is one ton of $N_2O$	= 298 tons of CO₂eq.
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons N2O reduced in CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	<b>Required:</b> If project calculates GHG benefits using multiple methods
Data collection level: Field	Data collection frequency: Annual

### GHG Benefits - Measured

Farm ID	Unique Farm ID assigned by FSA
Tract ID	Unique Tract ID assigned by FSA
Field ID	Unique Field ID assigned by FSA
State or territory of field	State name (must match FSA farm enrollment data)
County of field	County name (must match FSA farm enrollment data)

#### GHG measurement method

Data element name: GHG measurement met	hod <b>Reporting question:</b> What measurement method is used to calculate GHG benefits?
<b>Description:</b> Field-based measurement metho appropriate value as free text in the additional	od used to calculate GHG benefits. If "other" is chosen, enter the al column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values: • Emissions measurement unit • Flux towers • Litterbags • Plant measurements • Portable emissions analyzers • Soil flux chambers
Logic: None – all respond	<ul> <li>Soil samples</li> <li>Soil sensors</li> <li>Vehicle-mounted sensors</li> <li>Other (specify)</li> <li>Required: If a project conducts soil samples or takes carbon stock or greenhouse gas</li> </ul>
Data collection level: Field	emission measurements in this field <b>Data collection frequency:</b> Annual
ab name	
Data element name: Lab name Description: Name of entity that received dat	<b>Reporting question:</b> What is the name of the lab that processed the measurement samples?
Data type: Text	Select multiple values: No
Measurement unit: NA	Allowed values: Free text
Logic: None – all respond	Required: If applicable

Data collection frequency: Annual

Data collection level: Field



Measurement start date	
Data element name: Measurement start date	<b>Reporting question:</b> On what date did the measurement start?
and end date. If multiple measurements took place ov	was a single point in time, use the same date for start date er a time period, use the date that the measurements first
began.	Select multiple values: No
Data type: Date	Select multiple values: No
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023 – 12/31/2030
Logic: None – all respond	Required: If a project conducts soil samples or takes carbon stock or greenhouse gas emission measurements in this field
Data collection level: Field	Data collection frequency: Annual
Measurement end date	
Data element name: Measurement end date	Reporting question: On what date did the measurement end?
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	was a single point in time, use the same date for start date
and end date. If multiple measurements took place ov were completed.	er a time period, use the date that the measurements
Data type: Date	Select multiple values: No
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023– 12/31/2030
Logic: None – all respond	Required: If a project conducts soil samples or takes
Logic. None - an respond	carbon stock or greenhouse gas emission
	measurements in this field
Data collection level: Field	Data collection frequency: Annual
Total CO2 reduction calculated	
Data element name: Total CO2 reduction calculated Description: Total annual CO2 emission reductions bas	<b>Reporting question:</b> What are the total measured CO2 emission reductions? sed on practice implementation in the field calculated
from in-field measurements.	
Data type: Decimal	Select multiple values: No
Data type: Decimal Measurement unit: Metric tons CO <sub>2</sub>	Select multiple values: No Allowed values: 0-10,000,000
755	Allowed values: 0-10,000,000 Required: If a project takes
Measurement unit: Metric tons CO <sub>2</sub>	Allowed values: 0-10,000,000 Required: If a project takes carbon stock or greenhouse gas emission measurements in this
Measurement unit: Metric tons CO <sub>2</sub> Logic: None – all respond Data collection level: Field	Allowed values: 0-10,000,000 Required: If a project takes carbon stock or greenhouse gas emission measurements in this field Data collection frequency:
Measurement unit: Metric tons CO <sub>2</sub> Logic: None – all respond Data collection level: Field	Allowed values: 0-10,000,000 Required: If a project takes carbon stock or greenhouse gas emission measurements in this field Data collection frequency:
Measurement unit: Metric tons CO <sub>2</sub> Logic: None – all respond Data collection level: Field Total field carbon stock measured Data element name: Total field carbon stock measured	Allowed values: 0-10,000,000 Required: If a project takes carbon stock or greenhouse gas emission measurements in this field Data collection frequency: Annual Reporting question: What is the total amount of carbon sequestered based on repeat measurements in this field? implementation in the field calculated from repeat soil les should be reported in the 'Soil sample result' and
Measurement unit: Metric tons CO <sub>2</sub> Logic: None – all respond Data collection level: Field Total field carbon stock measured Data element name: Total field carbon stock measured Description: Change in carbon stock based on practice sampling in this field. (Results for initial field soil samp	Allowed values: 0-10,000,000 Required: If a project takes carbon stock or greenhouse gas emission measurements in this field Data collection frequency: Annual Reporting question: What is the total amount of carbon sequestered based on repeat measurements in this field? implementation in the field calculated from repeat soil les should be reported in the 'Soil sample result' and
Measurement unit: Metric tons CO <sub>2</sub> Logic: None – all respond Data collection level: Field Total field carbon stock measured Data element name: Total field carbon stock measured Description: Change in carbon stock based on practice sampling in this field. (Results for initial field soil samp 'Measurement type" columns.) Conversion rate is one	Allowed values: 0-10,000,000 Required: If a project takes carbon stock or greenhouse gas emission measurements in this field Data collection frequency: Annual Reporting question: What is the total amount of carbon sequestered based on repeat measurements in this field? implementation in the field calculated from repeat soil les should be reported in the 'Soil sample result' and ton of carbon = 3.67 tons of CO <sub>2</sub> eq.
Measurement unit: Metric tons CO <sub>2</sub> Logic: None – all respond Data collection level: Field Total field carbon stock measured Data element name: Total field carbon stock measured Description: Change in carbon stock based on practice sampling in this field. (Results for initial field soil samp 'Measurement type" columns.) Conversion rate is one Data type: Decimal	Allowed values: 0-10,000,000 Required: If a project takes carbon stock or greenhouse gas emission measurements in this field Data collection frequency: Annual Reporting question: What is the total amount of carbon sequestered based on repeat measurements in this field? implementation in the field calculated from repeat soil les should be reported in the 'Soil sample result' and ton of carbon = 3.67 tons of CO <sub>2</sub> eq. Select multiple values: No

Total CH4 reduction calculated	
Data element name: Total CH4 reduction calculated	<b>Reporting question:</b> What are the total measured CH4 emission reductions?
Description: Total annual methane emission reductions b	ased on practice implementation in the field calculated
from in-field measurements. Conversion rate is one ton o	$f CH_4 = 25 tons of CO_2 eq.$
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CH4 reduced in CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: If a project conducts soil samples or takes
	carbon stock or greenhouse gas emission
	measurements in this field
Data collection level: Field	Data collection frequency: Annual
Total N20 reduction calculated	
Data element name: Total N2O reduction calculated	Reporting question: What are the total measured N2O emission reductions?
Description: Total annual nitrous oxide emission reductio	ns based on practice implementation in the field
calculated from in-field measurements. Conversion rate is	s one ton of $N_2O = 298$ tons of $CO_2eq$ .
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons N2O reduced in CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: If a project conducts soil samples or takes
	carbon stock or greenhouse gas emission
	measurements in this field
Data collection level: Field	Data collection frequency: Annual
Soil sample result	
Data element name: Soil sample result	<b>Reporting question:</b> What is the numeric result from this soil sample?
Description: Results of measurement(s) taken to determine	ne the carbon stock of a soil (the tons of carbon found
in a specified volume of soil).	
Data type: Decimal	Select multiple values: No
Measurement unit: Amount	Allowed values: .00001-100,000
Logic: None – all respond	<b>Required:</b> If a project conducts soil samples in this field
Data collection level: Field	Data collection frequency: Annual

oil sample result unit	
Data element name: Soil sample result unit	Reporting question: What is unit for the soil sample result?
	ample result. The worksheet provides a drop-down list of choices e the additional column to enter the appropriate yield unit as free
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Percent
	• Ppm
	Grams
	<ul> <li>Grams per cubic centimeter</li> </ul>
	Other (specify)
Logic: None – all respond	Required: If a project conducts soil samples in this field
Data collection level: Field	Data collection frequency: Annual
Aeasurement type	
Data element name: Measurement type	<b>Reporting question:</b> What type of analysis was conducted for this soil sample?
Description: Type of soil analysis conducted.	The worksheet provides a drop-down list of choices for this data
element. If "other" is chosen, use the addition	nal column to enter the appropriate yield unit as free text.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Organic matter
	Total organic carbon
	Bulk density
	Other (specify)
Logic: None – all respond	Required: If a project conducts soil samples in this field
Data collection level: Field	Data collection frequency: Annual

### Additional Environmental Benefits

Farm ID	Unique Farm ID assigned by FSA	
Tract ID	Unique Tract ID assigned by FSA	
Field ID	Unique Field ID assigned by FSA	
State or territory of field	State name (must match FSA farm enrollment data)	
County of field	County name (must match FSA farm enrollment data)	

Environmental benefits	
Data element name: Environmental	Reporting question: Are environmental benefits other than
benefits	GHGs being tracked in the field?
그는 소리는 것 이 수 있는 것 같은 것 같	fits other than greenhouse gas emission reductions and carbon
sequestration in the enrolled field. Tracking that can quantify benefits.	means at a minimum using some form of monitoring and reporting
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
Measurement unit. Category	Yes
	• No
	<ul> <li>I don't know</li> </ul>
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Reduction in nitrogen loss	
Data element name: Reduction in nitrogen	Reporting question: Are reductions in nitrogen losses being
loss	tracked in the field?
	losses in the enrolled field. Tracking means at a minimum using
some form of monitoring and reporting that	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	• Yes
	• No
	I don't know
Logic: Respond if yes to 'Environmental benefits'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Reduction in nitrogen loss amount	
Data element	Reporting question: How much reduction in nitrogen losses
name: Reduction in nitrogen loss amount Description: Total amount of reduction in nit	have been measured in the field? trogen losses that is measured and reported in the enrolled field.
Data type: Decimal	Select multiple values: No
Measurement unit: Amount	Allowed values: 0-1,000,000
Logic: Respond if yes to 'Reduction in nitrogen loss'	Required: Yes
Data collection level: Field	Data collection frequency: Annual

Reduction in nitrogen loss amount unit Data element name: Reduction in nitrogen	Reporting question: What is the unit for how much reduction in
loss amount unit	nitrogen losses have been measured in the field?
Description: Unit for the total amount of red	luction in nitrogen losses that is measured and reported in the
	appropriate value as free text in the additional column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Kilograms
	Metric tons
	<ul><li>Pounds</li><li>Other (specify)</li></ul>
Logic: Respond if yes to 'Reduction in	Required: Yes
nitrogen loss'	Required. (cs
Data collection level: Field	Data collection frequency: Annual
Reduction in nitrogen loss purpose	
Data element name: Reduction in nitrogen	Reporting question: What is the purpose of tracking reduction in
loss purpose	nitrogen losses?
	n nitrogen losses in the enrolled field. If "other" is chosen, enter the
appropriate value as free text in the addition	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Commodity marketing
	Producing insets     Declusing effects
	<ul> <li>Producing offsets</li> <li>I don't know</li> </ul>
	Other (specify)
Logic: Respond if yes to 'Reduction in	Required: Yes
nitrogen loss'	
Data collection level: Project	Data collection frequency: Annual
Reduction in phosphorus loss	
Data element name: Reduction in	Reporting question: Are reductions in phosphorus losses being
phosphorus loss	tracked in the field?
using some form of monitoring and reporting	horus losses in the enrolled field. Tracking means at a minimum
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
Weasurement unit. Category	Yes
	• No
	<ul> <li>I don't know</li> </ul>
Logic: Respond if yes to 'Environmental benefits'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Reduction in phosphorus loss amount	
Data element name: Reduction in	Reporting question: How much reduction in phosphorus losses
phosphorus loss amount	have been measured in the field?
Description: Total amount of reduction in ph	
Description: Total amount of reduction in ph	Soloct multiple values No
Data type: Decimal	Select multiple values: No
Data type: Decimal Measurement unit: Amount	Allowed values: 0-1,000,000
Data type: Decimal	

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Data element name: Reduction in	Reporting question: What is the unit for the reduction in
phosphorus loss amount unit	phosphorus losses measured in the field?
Description: Unit for the total amount of re	eduction in phosphorus losses that is measured in the enrolled field. I
"other" is chosen, enter the appropriate va	lue as free text in the additional column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Kilograms
	Metric tons
	Pounds
	Other (specify)
Logic: Respond if yes to 'Reduction in phosphorus loss'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Reduction in phosphorus loss purpose	
Data element name: Reduction in	Reporting question: What is the purpose of tracking reductions
phosphorus loss purpose	in phosphorus losses?
	in phosphorus losses in the enrolled field. If "other" is chosen, enter
the appropriate value as free text in the ad	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Commodity marketing
	<ul> <li>Producing insets</li> </ul>
	Producing offsets
	<ul> <li>I don't know</li> </ul>
	<ul> <li>Other (specify)</li> </ul>
Logic: Respond if yes to 'Reduction in phosphorus loss'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Other water quality	
Data element name: Other water quality	Reporting question: Are other water quality metrics being
	tracked in the field?
	r quality metrics in the enrolled field. Tracking means at a minimum
using some form of monitoring and reporti	ng that can quantify benefits.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	• Yes
	• No
	I don't know
Logic: Respond if yes to 'Environmental benefits'	Required: Yes
Data collection level: Field	Data collection frequency: Annual

Data element name: Other water quality	Reporting question: What type of other water quality metric		
type	have been measured in the field?		
Description: Type of other water quality me	tric (besides nitrogen loss and phosphorus loss reductions) that is		
measured in the field. If "other" is chosen, e	nter the appropriate value as free text in the additional column.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Sediment load reduction		
	Temperature		
	Other (specify)		
Logic: Respond if yes to 'Other water quality'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Other water quality amount			
Data element name: Other water quality	Reporting question: How much reduction in other water quality		
amount	metrics have been measured in the field?		
Description: Total amount of reduction in of	ther water quality metrics that is measured in the enrolled field.		
Data type: Decimal	Select multiple values: No		
Measurement unit: Amount	Allowed values: 0-1,000,000		
Logic: Respond if yes to 'Other water quality'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Other water quality amount unit			
Data element name: Other water quality amount unit	<b>Reporting question:</b> What is the unit for the reduction in other water quality metrics measured in the field?		
and the second	duction in other water quality metrics that is measured in the		
	appropriate value as free text in the additional column.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Degrees F		
	Kilograms		
	Kilograms per liter		
	Metric tons     Pounds		
	<ul> <li>Pounds</li> <li>Other (specify)</li> </ul>		
Logic: Respond if yes to 'Other water	• Other (specify) Required: Yes		
quality'	neguneur res		

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Other water quality purpose			
Data element name: Other water quality	Reporting question: What is the purpose of tracking other water		
purpose	quality benefits?		
	r quality benefits in the enrolled field. If "other" is chosen, enter the		
appropriate value as free text in the addition			
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Commodity marketing		
	Producing insets		
	Producing offsets		
	I don't know     Other (specify)		
Logic: Respond if yes to 'Other water	<ul> <li>Other (specify)</li> <li>Required: Yes</li> </ul>		
quality'	<b>Nequileu.</b> Tes		
Data collection level: Field	Data collection frequency: Annual		
Nater quantity			
Data element name: Water quantity	Reporting question: Is water conservation being tracked in the field?		
Description: Tracking of water conservation	or reduction in use in the enrolled field. Tracking means at a		
minimum using some form of monitoring an			
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	• Yes		
	• No		
	I don't know		
Logic: Respond if yes to 'Environmental benefits'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Water quantity amount			
Data element name: Water quantity	Reporting question: How much water conservation has been		
amount	measured in the field?		
15	ation or reduction that is measured in the field.		
Data type: Decimal	Select multiple values: No		
Measurement unit: Amount	Allowed values: 0-1,000,000		
Logic: Respond if yes to 'Water quantity'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Water quantity amount unit			
Data element name: Water quantity amount unit	<b>Reporting question:</b> What is the unit for the amount of water conservation measured in the field?		
	ater conservation or reduced use that is measured and reported in		
	the appropriate value as free text in the additional column.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Acre-feet		
	Cubic feet		
5 5 2 (1452) 2226 407 M	Other (specify)		
Logic: Respond if yes to 'Water quantity'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		

Water quantity purpose		
Data element name: Water quantity	Reporting question: What is the purpose of tracking water	
purpose	conservation?	
	rervation or reductions in water use in the enrolled field. If "other" is	
chosen, enter the appropriate value as free		
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	<ul> <li>Commodity marketing</li> <li>Producing insets</li> </ul>	
	<ul> <li>Producing insets</li> <li>Producing offsets</li> </ul>	
	<ul> <li>I don't know</li> </ul>	
	Other (specify)	
Logic: Respond if yes to 'Water quantity'	Required: Yes	
Data collection level: Field	Data collection frequency: Annual	
Reduced erosion		
Data element name: Reduced erosion	<b>Reporting question:</b> Is reduced soil erosion being tracked in the field?	
Description: Tracking of reduced soil erosio	n in the enrolled field. Tracking means at a minimum using some	
form of monitoring and reporting that can o	NAME OF A DESCRIPTION OF A	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	• Yes	
	• No	
V B DI NAMA HAMAN B HAM	<ul> <li>I don't know</li> </ul>	
Logic: Respond if yes to 'Environmental	Required: Yes	
benefits' Data collection level: Field	Data collection frequency: Annual	
Reduced erosion amount	Data concetion in equency. Annual	
Data element name: Reduced erosion	Reporting question: How much erosion reduction has been	
amount	measured in the field?	
Description: Total amount of erosion reduct		
Data type: Decimal	Select multiple values: No	
Measurement unit: Amount	Allowed values: 0-1,000,000	
Logic: Respond if yes to 'Reduced erosion'	Required: Yes	
Data collection level: Field	Data collection frequency: Annual	
Reduced erosion amount unit		
Data element name: Reduced erosion unit	<b>Reporting question:</b> What is the unit for the amount of erosion reduction measured?	
Description: Unit for the total amount of er	osion reduction from enrolled fields that is measured and reported	
by the project. If "other" is chosen, enter th	e appropriate value as free text in the additional column.	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	• Tons	
	Other (specify)	
Logic: Respond if yes to 'Reduced erosion'	Required: Yes	
Data collection level: Field	Data collection frequency: Annual	

Reduced erosion purpose			
Data element name: Reduced erosion	Reporting question: What is the purpose of tracking reduced		
purpose	erosion in the field?		
<b>Description:</b> Purpose of tracking reduced error value as free text in the additional column.	osion the enrolled field. If "other" is chosen, enter the appropriate		
Data type: List	Select multiple values: No		
88 x x x x	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Commodity marketing     Producing insets		
	<ul> <li>Producing insets</li> <li>Producing offsets</li> </ul>		
	I don't know		
	Other (specify)		
Logic: Respond if yes to 'Reduced erosion'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Reduced energy use	THE CHART OF A CONTRACT OF A CONT		
Data element name: Reduced energy use	<b>Reporting question:</b> Is reduced energy use being tracked in the		
Description: Tracking of reduced operatures	field? in the enrolled field. Tracking means at a minimum using some		
form of monitoring and reporting that can q			
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
incusarement and category	Yes		
	• No		
	I don't know		
Logic: Respond if yes to 'Environmental	Required: Yes		
benefits'	CONS. MARKANINA YANA		
Data collection level: Field	Data collection frequency: Annual		
educed energy use amount			
Data element name: Reduced energy use	Reporting question: How much energy use reduction has been		
amount	measured in the field?		
	luction that is measured in the enrolled field.		
Data type: Decimal	Select multiple values: No		
Measurement unit: Amount	Allowed values: 0-1,000,000		
Logic: Respond if yes to 'Reduced energy use'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Reduced energy use amount unit			
Data element name: Reduced energy use	Reporting question: What is the unit for the energy use		
unit	reduction measured in the field?		
	ergy use reduction that is measured in the enrolled field. If "other"		
is chosen, enter the appropriate value as fre			
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Kilowatt hours		
Legis: December if use to (Deduced second	Other (specify)		
Logic: Respond if yes to 'Reduced energy use'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		

Reduced energy use purpose		
Data element name: Reduced energy use	Reporting question: What is the purpose of tracking reduced	
purpose	energy use in the field?	
	ergy use in the enrolled field. If "other" is chosen, enter the	
appropriate value as free text in the addition		
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	<ul> <li>Commodity marketing</li> </ul>	
	<ul> <li>Producing insets</li> </ul>	
	<ul> <li>Producing offsets</li> </ul>	
	I don't know	
5 D 50 100000 0 10000 00 10	Other (specify)	
Logic: Respond if yes to 'Reduced energy use'	Required: Yes	
Data collection level: Field	Data collection frequency: Annual	
Avoided land conversion		
Data element name: Avoided land conversion	Reporting question: Is avoided land conversion being tracked in the field?	
	rsion in the enrolled field. Tracking means at a minimum using some uantify benefits. Land conservation means land use changing from	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
incoor entent unit category	Yes	
	• No	
	<ul> <li>I don't know</li> </ul>	
Logic: Respond if yes to 'Environmental benefits'	Required: Yes	
Data collection level: Field	Data collection frequency: Annual	
Avoided land conversion amount		
Data element name: Avoided land	Reporting question: How much avoided land conversion has	
conversion amount	been measured in the field?	
Description: Total amount of avoided land c	onversion that is measured in the enrolled field.	
Data type: Decimal	Select multiple values: No	
Measurement unit: Amount	Allowed values: 0-1,000,000	
Logic: Respond if yes to 'Avoided land conversion'	Required: Yes	
Data collection level: Field	Data collection frequency: Annual	
Avoided land conversion amount unit		
Data element name: Avoided land	Reporting question: What is the unit for the amount of avoided	
conversion unit	land conversion measured in the field?	
The second	pided land conversion that is measured in the enrolled field. If	
"other" is chosen, enter the appropriate value		
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Acres	
	Other (specify)	
Logic: Respond if yes to 'Avoided land conversion'	Required: Yes	
Data collection level: Field	Data collection frequency: Annual	

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Avoided land conversion purpose		
Data element name: Avoided land	Reporting question: What is the purpose of tracking avoided	
conversion purpose	land conversion in the field?	
and the second se	land conversion in the enrolled field. If "other" is chosen, enter the	
appropriate value as free text in the addit		
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Commodity marketing	
	<ul> <li>Producing insets</li> </ul>	
	<ul> <li>Producing offsets</li> </ul>	
	I don't know	
	Other (specify)	
Logic: Respond if yes to 'Avoided land	Required: Yes	
conversion'	Data collection from communication	
Data collection level: Field	Data collection frequency: Annual	
mproved wildlife habitat		
Data element name: Improved wildlife habitat	Reporting question: Are improvements to wildlife habitat being tracked in the field?	
	wildlife in and around the enrolled field. Tracking means at a	
minimum using some form of monitoring	194 D1 221	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
incustrement unit. category	Yes	
	• No	
	I don't know	
Logic: Respond if yes to 'Environmental benefits'	Required: Yes	
Data collection level: Field	Data collection frequency: Annual	
mproved wildlife habitat amount		
Data element name: Improved wildlife	Reporting question: How much improved wildlife habitat has	
habitat amount	been measured in the field?	
Description: Total amount of improved w	ildlife habitat that is measured in and around the enrolled fields.	
Data type: Decimal	Select multiple values: No	
Measurement unit: Amount	Allowed values: 0-1,000,000	
Logic: Respond if yes to 'Improved wildlife	e Required: Yes	
habitat'		
Data collection level: Field	Data collection frequency: Annual	
Improved wildlife habitat amount unit		
Data element name: Improved wildlife	Reporting question: What is the unit for the amount of improved	
habitat unit	wildlife habitat measured in the field?	
	improved wildlife habitat that is measured in and around enrolled	
	opriate value as free text in the additional column.	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Acres	
	Linear feet	
	Other (specify)	
Logic: Respond if yes to 'Improved wildlife habitat'		
Data collection level: Field	Data collection frequency: Annual	

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mproved wildlife habitat purpose Data element name: Improved wildlife	Reporting question: What is the purpose of tracking improved	
habitat purpose	wildlife habitat in the field?	
H C LA CHARLES CONTRACTOR CO		
appropriate value as free text in the additio	wildlife habitat in the enrolled field. If "other" is chosen, enter the nal column.	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Commodity marketing	
	<ul> <li>Producing insets</li> </ul>	
	Producing offsets	
	I don't know	
	Other (specify)	
<b>Logic:</b> Respond if yes to 'Improved wildlife habitat'	Required: Yes	
Data collection level: Field	Data collection frequency: Annual	

#### CSAF Practice Sub-questions

For some CSAF practices, there is an additional set of questions that are unique to each practice. Responses to these questions are needed to verify estimated GHG benefits of these practices. If a field is implementing a CSAF practice with an NRCS CPS code in Table 11, answer the follow-up questions listed next to the relevant practice name in the table. Use the *Supplemental Reporting Workbook – CSAF Practice Sub-questions* to report the required information.

#### Table 11. Follow-on questions for select CSAF practices

Practice name and code	Follow-up question	Options (select one)
Alley Cropping (CPS 311)	Species category (select most common/extensive type if using more than one)	Coniferous trees Deciduous trees Shrubs
	Species density (number of trees planted per acre)	1-10,000
Anaerobic Digester (CPS 366)	Waste storage system prior to installing anaerobic digester	Aerobic lagoon Anaerobic digester (complex mix) with energy generation Anaerobic digester (plug flow) with energy generation Anaerobic lagoon Composting Covered lagoon (no energy generation or flaring Covered lagoon with energy generation Covered lagoon with energy generation Covered lagoon with flaring Daily spread Deep bedding pack Deep pit Dry lot Dry stacking/solid storage Pasture/range/paddock Poultry with bedding Poultry without bedding (e.g., high rise) Slurry tank/basin
	Digester type	Covered lagoon with energy generation Covered lagoon with flaring Covered lagoon (no energy generation or flaring Complex mix with energy generation Plug flow with energy generation Other (specify)
	Additional feedstock source (select most common if using more than one)	Food waste Straw or bedding Wastewater Other (specify)

		Coal
		Diesel
		Electricity
		Gasoline
	en la secolette de la deserve	Kerosene
	Fuel type before installation	Liquified petroleum gas (LPG)
		Natural gas
		Propane
		Wood
		Other (specify)
	Fuel amount before installation	0-1,000,000
		Cubic feet (natural gas)
	Fuel amount unit before	Gallons (diesel, gasoline, propane, LPG, kerosene
		Kilowatt-hours (electricity)
	installation	Pounds (wood, coal)
Combustion System		Other (specify)
Improvement (CPS 372)		Coal
		Diesel
		Electricity
	Fuel type after installation	Gasoline
		Kerosene
		Liquified petroleum gas (LPG)
		Natural gas
		Propane
		Wood
		Other (specify)
	Fuel amount after installation	0-1,000,000
	Fuel amount unit after	Cubic feet (natural gas)
		Gallons (diesel, gasoline, propane, LPG, kerosene
	installation	Kilowatt-hours (electricity)
	Installation	Pounds (wood, coal)
		Other (specify)
	Species category (select most common/extensive type if	Brassicas
Conservation Cover		Grasses
(CPS 327)		Legumes
(013327)	using more than one)	Non-legume broadleaves
		Shrubs

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		Brassica
		Broadleaf
	Conservation crop type	Cool season
		Grass
		Legume
		Warm season
		Added perennial crop
a 102 521 51/01 m/	Change implemented	Reduced fallow period
Conservation Crop Rotation		Both
(CPS 328)	2	Conventional (plow, chisel, disk
		No-till, direct seed
		Reduced till
	Conservation crop rotation tillage type	Strip till
		None
		Other (specify)
	Total conservation crop rotation length in	other (specify)
	days	1-120
12 122 11 1 12 12 12	Strip width (feet)	1-100
Contour Buffer Strips (CPS		Grasses
332)	Species category	Forbs
		Mix
		Brassicas
	Species category (select most	Forbs
	common/extensive type if using more	Grasses
	than one)	Legume
		Non-legume broadleaves
	2	Grazing
Court Crop (CDS 240)	Cover crop planned management	Haying
Cover Crop (CPS 340)		Termination
		Burning
		Herbicide application
	× 158 001	Incorporation
	Cover crop termination method	Mowing
		Rolling/crimping
		Winter kill/frost
		Grass
	ರ್ಷದ ಈ ವರ ಸಾಹ್ರಕ್ರಮಗಳ ಬರಗ	Grass Grass legume/forb mix
Critical Area Planting (CPS	Species category (select most	Grass legume/forb mix
Critical Area Planting (CPS 342)	common/extensive type if using more	Grass legume/forb mix Herbaceous woody mix
Critical Area Planting (CPS 342)		Grass legume/forb mix Herbaceous woody mix Perennial or reseeding
	common/extensive type if using more	Grass legume/forb mix Herbaceous woody mix Perennial or reseeding Shrubs
	common/extensive type if using more	Grass legume/forb mix Herbaceous woody mix Perennial or reseeding
	common/extensive type if using more than one)	Grass legume/forb mix Herbaceous woody mix Perennial or reseeding Shrubs Trees
342)	common/extensive type if using more than one) Crude protein (percent)	Grass legume/forb mix Herbaceous woody mix Perennial or reseeding Shrubs Trees 0-100
342)	common/extensive type if using more than one) Crude protein (percent) Fat (percent)	Grass legume/forb mix Herbaceous woody mix Perennial or reseeding Shrubs Trees 0-100 0-100 Chemical
1773	common/extensive type if using more than one) Crude protein (percent)	Grass legume/forb mix Herbaceous woody mix Perennial or reseeding Shrubs Trees 0-100 0-100 Chemical Edible oils/fats
342)	common/extensive type if using more than one) Crude protein (percent) Fat (percent)	Grass legume/forb mix Herbaceous woody mix Perennial or reseeding Shrubs Trees 0-100 0-100 Chemical Edible oils/fats Seaweed/kelp
342)	common/extensive type if using more than one) Crude protein (percent) Fat (percent) Feed additives/supplements	Grass legume/forb mix Herbaceous woody mix Perennial or reseeding Shrubs Trees 0-100 0-100 Chemical Edible oils/fats Seaweed/kelp Other (specify)
342) Feed Management (CPS 592)	common/extensive type if using more than one) Crude protein (percent) Fat (percent) Feed additives/supplements Species category (select most	Grass legume/forb mix Herbaceous woody mix Perennial or reseeding Shrubs Trees 0-100 0-100 Chemical Edible oils/fats Seaweed/kelp Other (specify) Forbs
342)	common/extensive type if using more than one) Crude protein (percent) Fat (percent) Feed additives/supplements	Grass legume/forb mix Herbaceous woody mix Perennial or reseeding Shrubs Trees 0-100 0-100 Chemical Edible oils/fats Seaweed/kelp Other (specify)

	Strip width (feet)	20-1,000
	Species category (select most common/extensive type if using more than one)	Forbs
Filter Strip (CPS 393)		Grasses
		Mix
		Shrubs
	Land use in previous year	Forest
		Multi-story cropping
Forest Farming (CPS 379)		Pasture/grazing land
		Row crops
		Other agroforestry
		Maintain or improve forest carbon stocks
		Maintain or improve forest health and
		productivity
		Maintain or improve forest structure and
Forest Stand	<b>D</b>	composition
Improvement (CPS 666)	Purpose for implementation	Maintain or improve wildlife, fish, and
an natation and a station of the station of the state of		pollinator habitat
		Manage natural precipitation more efficient
		Reduce forest pest pressure
		Reduce forest wildfire hazard
Grassed Waterway (CPS	Species category (select most common/extensive type if using	Flowering Plants
S 0.		Forbs
412)	more than one)	Grasses
	Species category (select most	Grasses
	common/extensive type if using	Shrubs
Hedgerow Planting (CPS	more than one)	Trees
422)	Species density (number of trees planted per acre)	1-10,000
	Species category (select most	Forbs
	common/extensive type if using	Grasses
Herbaceous Wind		Mix
Barriers (CPS 603)	more than one)	Shrubs
ವಾಲಾಗಲ್ ಗ್ರಿಪ್ ಕಲ್ಲಾ ನಿ <b>ಸಿ</b> ಸಾಗಿ, ಮಂತನದ ಹೊಂಡಿಗೆ ಗಿ	Barrier width (feet)	1-1,000
	Number of rows	1-100
	Mulch type	Gravel
		Natural
Mulching (CPS 484)		Synthetic
Mulching (CPS 484)		
		Wood

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TENER MOUNTER		
Nutrient management (CPS 590)	Nutrient type with CPS 590	Biosolids Commercial fertilizers Compost EEF (nitrification inhibitor) EEF (slow or controlled release) EEF (urease inhibitor) Green manure Liquid animal manure Organic by-products Organic residues or materials Solid/semi-solid animal manure Wastewater
	Nutrient application method with CPS 590	Banded Broadcast Injection Irrigation Surface application Surface application with tillage Variable rate
	Nutrient application method in the previous year	Banded Broadcast Injection Irrigation Surface application Surface application with tillage Variable rate
	Nutrient application timing with CPS 590	Single pre-planting Single post-planting Split pre- and post-planting Split post-planting
	Nutrient application timing in the previous year	Single pre-planting Single post-planting Split pre- and post-planting Split post-planting
	Nutrient application rate with CPS 590	0-20,000
	Nutrient application rate unit with CPS 590	Gallons per acre Pounds per acre
	Nutrient application rate change	Decrease compared to previous year Increase compared to previous year No change
Pasture and Hay Planting	Species category (select most common/extensive type if using more than one)	Cool-season broadleaf Cool-season grass Warm-season broadleaf Warm-season grass
(CPS 512)	Termination process	Grazing Haying (i.e., cutting and baling) Other (specify)
Prescribed Grazing (CPS 528)	Grazing type	Cell grazing Deferred rotational Management intensive Rest-rotation

Range Planting (CPS 550)	Species category (select most common/extensive type if using more than one)	Forbs Grasses Legumes Shrubs Trees
Residue and Tillage Management – No-till (CPS 329)	Surface disturbance	None Seed row only
Residue and Tillage Management – Reduced Till (CPS 345)	Surface disturbance	None Seed row/ridge tillage for planting Shallow across most of the soil surface Vertical/mulch
Riparian Forest Buffer (CPS 391)	Species category (select most common/extensive type if using more than one)	Coniferous trees Deciduous trees Shrubs
(CF3 591)	Species density (number of trees planted per acre)	1-10,000
Riparian Herbaceous Cover (CPS 390)	Species category (select most common/extensive type if using more than one)	Ferns Forbs Grasses Legumes Rushes Sedges
Roofs and Covers (CPS 367)	Roof/cover type	Concrete Flexible geomembrane Metal Timber Other (specify)
Silvopasture (CPS 381)	Species category (select most common/extensive type if using more than one)	Coniferous trees Deciduous trees Forage Shrubs
	Species density (number of trees planted per acre)	1-10,000
	Strip width (feet)	1-1,000
Stripcropping (CPS 585)	Crop category (select most common/extensive type if using more than one)	Erosion resistant crops Fallow Sediment trapping crops
	Number of strips	2-100
Tree/Shrub Establishment	Species category (select most common/extensive type if using more than one)	Coniferous trees Deciduous trees Shrubs
(CPS 612)	Species density (number of trees planted per acre)	1-10,000
Vegetative Barrier (CPS 601)	Species category (select most common/extensive type if using more than one)	Grasses Grass forb mix Grass legume mix
001)	Barrier width (feet)	3-1,000

		Chemical (e.g., salts, polymers)
	Separation type	Mechanical (e.g., screens, presses)
Waste Separation Facility		Settling basin
(CPS 632)		Bedding
<b>N N</b>	Most common use of solids	Field applied
		Other (specify)
		Aerobic lagoon
		Anaerobic digester (complex mix) with
		energy generation
		Anaerobic digester (plug flow) with
		energy generation
		Anaerobic lagoon
		Composting
		Covered lagoon (no energy generation
		or flaring)
Waste Storage Facility (CPS	Waste storage system prior to	Covered lagoon with energy generatio
313)	installing your waste storage facility	Covered lagoon with flaring
279457° 78 🖡	······································	Daily spread
		Deep bedding pack
		Deep pit
		Dry lot
		Dry stacking/solid storage
		Pasture/range/paddock
		Poultry with bedding
		Poultry without bedding (e.g., high rise
		Slurry tank/basin
		Biological
Waste Treatment (CPS 629)	Treatment type	Chemical
		Mechanical
		Aerobic lagoon
		Anaerobic digester (complex mix) with
		energy generation
		Anaerobic digester (plug flow) with
		energy generation
		Anaerobic lagoon
		Composting
		Covered lagoon (no energy generation
	Waste storage system prior to installing waste treatment lagoon	or flaring)
		Covered lagoon with energy generatio
		Covered lagoon with flaring
Waste Treatment Lagoon	installing waste treatment lagoon	0
Waste Treatment Lagoon	installing waste treatment lagoon	Daily spread
Waste Treatment Lagoon (CPS 359)	installing waste treatment lagoon	1771 1771 1771 1771 1771 1771 1771 177
NT 140 GENERAL - 12 및 2011년 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전	installing waste treatment lagoon	Daily spread
NT 140 GENERAL - 12 및 2011년 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전	installing waste treatment lagoon	Daily spread Deep bedding pack
NT 140 GENERAL - 12 및 2011년 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전	installing waste treatment lagoon	Daily spread Deep bedding pack Deep pit
NT 140 GENERAL - 12 및 2011년 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전	installing waste treatment lagoon	Daily spread Deep bedding pack Deep pit Dry lot
NT 2.40 GED UP UP A 2 - 12 이용을 전했던 관련을 통하는 것을 것 같아요? 2.40 The THE PARTY	installing waste treatment lagoon	Daily spread Deep bedding pack Deep pit Dry lot Dry stacking/solid storage
NT 140 GENERAL - 12 및 2011년 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전	installing waste treatment lagoon	Daily spread Deep bedding pack Deep pit Dry lot Dry stacking/solid storage Pasture/Range/Paddock Poultry with bedding
NT 2.40 GED UP UP A 2 - 12 이용을 전했던 관련을 통하는 것을 것 같아요? 2.40 The THE PARTY	installing waste treatment lagoon	Daily spread Deep bedding pack Deep pit Dry lot Dry stacking/solid storage Pasture/Range/Paddock Poultry with bedding Poultry without bedding (e.g., high rise
NT 140 GENERAL - 12 및 2011년 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전		Daily spread Deep bedding pack Deep pit Dry lot Dry stacking/solid storage Pasture/Range/Paddock
NT 140 GENERAL - 12 및 2011년 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전 전	Installing waste treatment lagoon	Daily spread Deep bedding pack Deep pit Dry lot Dry stacking/solid storage Pasture/Range/Paddock Poultry with bedding Poultry without bedding (e.g., high rise Slurry tank/basin
NT 2.40 GED UP UP A 2 - 12 이용을 전했던 관련을 통하는 것을 것 같아요? 2.40 The THE PARTY		Daily spread Deep bedding pack Deep pit Dry lot Dry stacking/solid storage Pasture/Range/Paddock Poultry with bedding Poultry without bedding (e.g., high rise Slurry tank/basin Yes

Windbreak/Shelterbelt Establishment and Renovation (CPS 380)	Species category (select most common/extensive type if using more than one)	Coniferous trees Deciduous trees Shrubs	
	Species density (number of trees planted per acre)	1-10,000	

## Appendix A: Climate-smart Agriculture and Forestry Practices

All NRCS Practice Standards (not limited to climate-sma 309, Agrichemical Handling Facility	390, Riparian Herbaceous Cover
311, Alley Cropping	391, Riparian Forest Buffer
	Construction of the second structure of the second
313, Waste Storage Facility	393, Filter Strip
314, Brush Management	394, Firebreak
315, Herbaceous Weed Treatment	395, Stream Habitat Improvement and Management
316, Animal Mortality Facility	396, Aquatic Organism Passage
317, Composting Facility	397, Aquaculture Pond
318, Short Term Storage of Animal Waste and By-Products	398, Fish Raceway or Tank
319, On-Farm Secondary Containment Facility	399, Fishpond Management
320, Irrigation Canal or Lateral	400, Bivalve Aquaculture Gear and Biofouling Control
324, Deep Tillage	402, Dam
325, High Tunnel System	410, Grade Stabilization Structure
326, Clearing and Snagging	412, Grassed Waterway
327, Conservation Cover	420, Wildlife Habitat Planting
328, Conservation Crop Rotation	422, Hedgerow Planting
329, Residue and Tillage Management, No Till	423, Hillside Ditch
330, Contour Farming	428, Irrigation Ditch Lining
331, Contour Orchard and Other Perennial Crops	428A, Irrigation Water Conveyance, Ditch and Canal Lining,
332, Contour Buffer Strips	Plain Concrete
333, Amending Soil Properties with Gypsum Products	428B, Irrigation Water Conveyance, Ditch and Canal Lining,
334, Controlled Traffic Farming	Flexible Membrane
336, Soil Carbon Amendment	428C, Irrigation Water Conveyance, Ditch and Canal Lining,
338, Prescribed Burning	Galvanized Steel
340, Cover Crop	430, Irrigation Pipeline
342, Critical Area Planting	432, Dry Hydrant
345, Residue and Tillage Management, Reduced Till	436, Irrigation Reservoir
348, Dam, Diversion	441, Irrigation System, Microirrigation
350, Sediment Basin	442, Sprinkler System
351, Well Decommissioning	443, Irrigation System, Surface and Subsurface
353, Monitoring Well	447, Irrigation and Drainage Tailwater Recovery
355, Groundwater Testing	449, Irrigation Water Management
356, Dike and Levee	450, Anionic Polyacrylamide (PAM) Application
359, Waste Treatment Lagoon	453, Land Reclamation, Landslide Treatment
360, Waste Facility Closure	455, Land Reclamation, Toxic Discharge Control
362, Diversion	457, Mine Shaft and Adit Closing
366, Anaerobic Digester	460, Land Clearing
367, Roofs and Covers	462, Precision Land Forming and Smoothing
368, Emergency Animal Mortality Management	464, Irrigation Land Leveling
371, Air Filtration and Scrubbing	466, Land Smoothing
372, Combustion System Improvement	468, Lined Waterway or Outlet
373, Dust Control on Unpaved Roads and Surfaces	472, Access Control
374, Energy Efficient Agricultural Operation	484, Mulching
375, Dust Management for Pen Surfaces	490, Tree/Shrub Site Preparation
376, Field Operations Emissions Reduction	500, Obstruction Removal
378, Pond	511, Forage Harvest Management
379, Forest Farming	512, Pasture and Hay Planting
380, Windbreak/Shelterbelt Establishment and Renovation	516, Livestock Pipeline
381, Silvopasture	520, Pond Sealing or Lining, Compacted Soil Treatment
382, Fence	520, Pond Sealing of Lining, Compacted Son Treatment 521, Pond Sealing or Lining, Geomembrane or
383, Fuel Break	Geosynthetic Clay Liner 521A, Pond Sealing or Lining, Flexible Membrane
294 Mandy Pasidua Trantment	
384, Woody Residue Treatment	이는 것 같은 것 같
384, Woody Residue Treatment 386, Field Border 388, Irrigation Field Ditch	5216, Pond Sealing of Lining, Soil Dispersant 521C, Pond Sealing or Lining, Bentonite Sealant

- 521D, Pond Sealing or Lining, Compacted Clay Treatment
- 522, Pond Sealing or Lining Concrete
- 527, Sinkhole Treatment
- 528, Prescribed Grazing
- 533, Pumping Plant
- 543, Land Reclamation, Abandoned Mined Land
- 544, Land Reclamation, Currently Mined Land
- 548, Grazing Land Mechanical Treatment
- 550, Range Planting
- 554, Drainage Water Management
- 555, Rock Wall Terrace
- 557, Row Arrangement
- 558, Roof Runoff Structure
- 560, Access Road
- 561, Heavy Use Area Protection
- 562, Recreation Area Improvement
- 566, Recreation Land Improvement and Protection
- 570, Stormwater Runoff Control
- 572, Spoil Disposal
- 574, Spring Development
- 575, Trails and Walkways
- 576, Livestock Shelter Structure
- 578, Stream Crossing
- 580, Streambank and Shoreline Protection
- 582, Open Channel
- 584, Channel Bed Stabilization
- 585, Stripcropping
- 587, Structure for Water Control
- 588, Crosswind Ridges
- 589, Cross Wind Trap Strips
- 590, Nutrient Management
- 591, Amendments for Treatment of Agricultural Waste
- 592, Feed Management
- 595, Pest Management Conservation System
- 600, Terrace
- 601, Vegetative Barrier
- 602, Equitable Relief
- 603, Herbaceous Wind Barriers
- 604, Saturated Buffer
- 605, Denitrifying Bioreactor
- 606, Subsurface Drain
- 607, Surface Drain, Field Ditch
- 608, Surface Drain, Main or Lateral
- 609, Surface Roughening
- 610, Salinity and Sodic Soil Management
- 612, Tree/Shrub Establishment
- 614, Watering Facility
- 620, Underground Outlet
- 629, Waste Treatment
- 630, Vertical Drain

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- 632, Waste Separation Facility
- 633, Waste Recycling
- 634, Waste Transfer
- 635, Vegetated Treatment Area
- 636, Water Harvesting Catchment
- 638, Water and Sediment Control Basin
- 640, Waterspreading
- 642, Water Well
- 643, Restoration of Rare or Declining Natural Communities
- 644, Wetland Wildlife Habitat Management
- 645, Upland Wildlife Habitat Management
- 646, Shallow Water Development and Management
- 647, Early Successional Habitat Development-Mgt
- 649, Structures for Wildlife
- 650, Windbreak/Shelterbelt Renovation
- 654, Road/Trail/Landing Closure and Treatment
- 655, Forest Trails and Landings
- 656, Constructed Wetland
- 657, Wetland Restoration
- 658, Wetland Creation
- 659, Wetland Enhancement
- 660, Tree-Shrub Pruning
- 666, Forest Stand Improvement
- 670, Energy Efficient Lighting System
- 672, Energy Efficient Building Envelope
- 736, Crop By-Product Transfer, interim
- 724, Water Treatment Facility, interim
- 735, Waste Gasification Facility, interim

737, Reduced Water and Energy Coffee Conveyance System, interim

- 740, Pond Sealing and Lining, Soil Cement, interim
- 751, Individual Terrace, interim
- 753, Infiltration Ditch, interim
- 755, Well Plugging, interim
- 770, Livestock Confinement Facility, interim
- 775, Drainage Ditch Covering, interim
- 782, Phosphorus Removal System, interim
- 800, Controlling Existing Flowing Wells, interim
- 803, Water Well Disinfection, interim
- 805, Amending Soil Properties with Lime, interim
- 808, Soil Carbon Amendment, interim
- 809, Conservation Harvest Management, interim
- 810, Annual Forages for Grazing Systems, interim
- 812, Raised Beds, interim
- 815, Groundwater Recharge Basin or Trench, interim

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- 817, On-Farm Recharge, interim
- 818, Water Conservation System, interim
- 821, Low Tunnel Systems, interim
- 823, Organic Management, interim

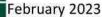
Other CSAF Practices Traditional or cultural practices Microbial products Solar power generation Grain bin construction Pre-season drainage

Appendix B: Commodity List CROPS ALFALFA ALMONDS AMARANTH GRAIN APPLES APRICOTS ARONIA (CHOKEBERRY) ARTICHOKES **ASPARAGUS** ATEMOYA **AVOCADOS BAMBOO SHOOTS** BANANAS BARLEY BEANS BEETS **BIRDSFOOT/TREFOIL BLUEBERRIES** BREADFRUIT BROCCOFLOWER BROCCOLI BROCCOLINI **BRUSSEL SPROUTS** BUCKWHEAT CABBAGE CACAO CACTUS CAIMITO CALABAZA MELON CALALOO CAMELINA CANARY MELON CANARY SEED CANEBERRIES CANISTEL CANOLA CANTALOUPES CARAMBOLA (STAR FRUIT) CARROTS CASHEW CASSAVA CAULIFLOWER CELERIAC CELERY CHERIMOYA CHERRIES CHESTNUTS CHICORY/RADICCHIO CHINESE BITTER MELON CHRISTMAS TREES CHUFAS

CINNAMON CLOVER COCONUTS COFFEE CORN COTTON ELS COTTON UPLAND CRANBERRIES **CRENSHAW MELON** CRUSTACEAN **CUCUMBERS** CURRANTS DASHEEN DATES DURIAN EGGPLANT EINKORN **ELDERBERRIES** EMMER FIGS FINFISH FLAX **FLOWERS** FORAGE SOYBEAN/SORGHUM GAILON GARLIC GENIP GINGER GINSENG GOOSEBERRIES GOURDS GRAPEFRUIT GRAPES GRASS GREENS **GROUND CHERRY GUAMABANA/SOURSOP** GUAR **GUAVA GUAVABERRY GUAYULE** HAZEL NUTS HEMP HERBS **HESPERALOE** HONEY HONEYBERRIES HONEYDEW HOPS HORSERADISH HUCKLEBERRIES

HYBRID POPLAR TREES IDLE INDIGO **ISRAEL MELONS** JACK FRUIT JERUSALEM ARTICHOKES JICAMA JOJOBA JUJUBE JUNEBERRIES KENAF **KHORASAN KIWIBERRY** KIWIFRUIT KOCHIA (PROSTRATA) KOHLRABI KOREAN GOLDEN MELON **KUMQUATS** LAMBS EAR LEEKS LEMONS LENTILS LESPEDEZA LETTUCE LIMES LONGAN LOQUATS LYCHEE MANGOS MANGOSTEEN MAPLE SAP MAYHAW BERRIES MEADOWFOAM MILKWEED MILLET MIXED FORAGE MOHAIR MOLLUSK MORINGA **MULBERRIES MUSHROOMS** MUSTARD NECTARINES NIGER SEED NONI OATS OKRA OLIVES ONIONS ORANGES PAPAYA

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PARSNIP PASSION FRUITS PAWPAW PEACHES PEANUTS PEARS PEAS PECANS PENNYCRESS PEPPERS PERENNIAL PEANUTS PERIQUE TOBACCO PERSIMMONS **PINE NUTS** PINEAPPLE PISTACHIOS PITAYA/DRAGONFRUIT PLANTAIN PLUMCOTS PLUMS POMEGRANATES POTATOES POTATOES SWEET PRUNES PSYLLIUM PUMMELO PUMPKINS QUINCES QUINOA RADISHES RAISINS RAMBUTAN RAPESEED RHUBARB RICE RICE SWEET RICE WILD RUTABAGA RYE SAFFLOWER SAPODILLA SAPOTE SCALLIONS SESAME SHALLOTS SORGHUM SORGHUM DUAL PURPOSE SORGHUM FORAGE SOYBEANS SPELT SQUASH STAR GOOSEBERRY

**STRAWBERRIES** SUGAR BEETS SUGARCANE **SUNFLOWERS** SUNN HEMP TANGELOS TANGERINES TANGORS TANGOS TANNIER TARO TEA TEFF TL **TOBACCO CIGAR WRAPPER TOBACCO BURLEY TOBACCO BURLEY 31V TOBACCO CIGAR BINDER TOBACCO CIGAR FILLER** TOBACCO CIGAR FILLER BINDER **TOBACCO DARK AIR CURED TOBACCO FIRE CURED TOBACCO FLUE CURED** TOBACCO MARYLAND **TOBACCO VIRGINIA FIRE CURED** TOMATILLOS TOMATOES TREES TIMBER TRITICALE TRUFFLES TURNIPS VETCH WALNUTS WAMPEE WASABI WATERMELON WAX JAMBOO FRUIT WHEAT WILLOW SHRUB WINTER MELON WOLFBERRY/GOJI YAM

LIVESTOCK ALPACAS **BEEF COWS** BEEFALO **BUFFALO OR BISON** CHICKENS (BROILERS) CHICKENS (LAYERS) DAIRY COWS DEER DUCKS ELK EMUS EQUINE GEESE GOATS HONEYBEES LLAMAS REINDEER SHEEP SWINE TURKEYS

# Partnerships for Climate-Smart Commodities Additional Specific Terms and Conditions February 2023

### I. Overarching Statement

The following award terms and conditions are applicable to Partnerships for Climate-Smart Commodities agreements and are in addition to the USDA FPAC General Terms and Conditions. The award recipient must abide by all terms of this grant including, but not limited to, the General Terms and Conditions, the terms in the Funding Opportunity and associated Frequently Asked Questions, and this addendum. The recipient must also deliver on the planned objectives in the project narrative and budget narrative associated with this grant.

### II. Eligibility and Highly Erodible Lands and Wetlands Compliance

In order to be eligible for an incentive payment as a part of the Partnerships for Climate-Smart Commodities, a producer must:

- Establish Farm Records with the Farm Service Agency (FSA) (have farm, tract, and field numbers in place);
- Complete an AD-2047 (Customer Data Worksheet to facilitate the collection of customer data for Business Partner Record);
- Certify highly erodible land conservation (HEL) and wetland conservation (WC) compliance via Form AD-1026, Highly Erodible Land Conservation (HELC) and Wetland Conservation (WC) Certification; and
- Certify that they are not a foreign person or entity.

Farm, tract, and field numbers are required for the producer, and ultimately the Partnerships for Climate-Smart Commodities recipient, to report climate-smart practice implementation to USDA, as well as to certify and maintain HELC/WC compliance. This will require that some producers who do not already have these numbers, like perennial crop growers or feedlots, establish these records with USDA's FSA. Farm, tract, field numbers, producer name, and Core Customer I.D. (CCID) will be provided by the recipient to the National Program Officer as a part of routine grant reporting. Recipients must ensure that producers receiving financial assistance or incentives through this project use the same name as is included in the relevant FSA Business File for that Farm ID in any contracts or similar documentation kept by the recipient.

Producers are not bound by the payment limitations and the adjusted gross income (AGI) limitations that are in place for other USDA programs.

In order to demonstrate HELC/WC compliance for Partnerships for Climate-Smart Commodities incentive payments, producers will need to request a copy of their subsidiary print from their

Partnerships for Climate-Smart Commodities Additional Specific Terms and Conditions Page 1 of 6 February 2023 USDA FSA field office. The Subsidiary Print includes print year specific eligibility related information about a selected producer. The producer will then provide this documentation to the Partnerships for Climate-Smart Commodities recipients as proof of compliance. A current year subsidiary print will be required for each crop year that the producer receives a payment, and HELC/WC eligibility information is provided under the AD-1026 and Conservation Compliance sections of subsidiary (determined by year, which can change at any time during the year or in a subsequent year). As is the case already, field offices will not be expected to provide documentation to anyone besides the producer themselves (and must always comply with Section 1619 limitations if they ever do provide documentation to third parties). Producers must have control of the land for the term of their beneficiary contract.

Recipients are responsible for determining producer eligibility within the funding opportunity requirements. Recipients must inform producers of eligibility requirements and direct them to local USDA offices for requested information as necessary, including but not limited to, farm and tract establishment and Highly Erodible Land and Wetland Compliance determinations. Privacy of producers is a priority throughout this process, and recipients are responsible for maintaining producer privacy in the process.

At minimum, the recipient will collect and review subsidiary reports from participating producers. They will ensure that the producer is listed as "compliant" in all sections of the conservation compliance portion of subsidiary and "certified" for AD-1026 before an incentive payment is made. If payments to a producer span more than one Federal fiscal year, the recipient will review an updated subsidiary print each fiscal year to ensure that the status is still compliant.

### III. Other Environmental and Cultural Resources Reviews

A Finding of No Significant Impact (FONSI) was signed by USDA NRCS on August 26, 2022. A copy of the Programmatic Environmental Assessment for Partnerships for Climate-Smart Commodities is available at <u>www.usda.gov/climate-smart-commodities</u>. USDA may determine that additional environmental and cultural resources review is needed for any particular action under Partnerships for Climate-Smart Commodities. The recipient must not execute any beneficiary contracts under this grant agreement prior to receipt of a letter from USDA that specifically details:

- 1) further procedures deemed appropriate by the Agency to ensure a completed National Environmental Policy Act (NEPA) review and all appropriate consultation requirements are met, and
- 2) additional instructions for any unanticipated discoveries or conditions.

A resolution of support is required for projects on Tribal lands from the governing body of the Tribe with jurisdiction over that land, if the applicant is not the Tribe nor an entity owned or operated by that Tribe. USDA may approve alternative documentation for resolutions when USDA deems necessary and legally sufficient.

### **IV. Producer Benefits**

USDA encourages the recipient to disclose to participating producers the manner and amount for which any market premiums derived from the development of the relevant climate-smart commodity will be shared between participating parties, including producers. USDA will be monitoring producer benefits, in particular those to small and underserved producers, throughout the grant period. Recipients agree that their project(s) will implement a plan for engaging small and underserved producers as laid out in this agreement.

### V. Producer Data Protection and Disclosure

Recipients must ensure each producer has convenient access to any data collected from that producer or the producer's land and any associated modeling as part of the project. The recipient must provide each producer applying for benefits under this grant a description in writing of how their information, including but not limited to data about their farm and commodities, will be utilized, protected and shared as applicable.

### VI. Other Data and Reporting Requirements

In addition to the reporting information provided in the statement of work and General Terms and Conditions, USDA will provide a template for the Detailed Progress Report, also known as the Partnerships for Climate-Smart Commodities (PSCS) Project Reporting Workbook. Within 30 calendar days of execution of this grant, a copy of this workbook will be posted at <u>www.usda.gov/climate-smart-commodities</u> or an alternative location provided to the recipient by the National Program Officer. USDA may provide updates to the PCSC Project Reporting Workbook or submission methods to streamline the data collection process and/or reduce the burden on the recipient throughout the grant period. Generally, these updates will be provided at least 3 months in advance of any required changes. The recipient must not transfer any data to foreign governments or foreign entities without prior approval from USDA.

USDA will provide a Technical Contact for this grant. The Technical Contact will have the responsibility of technical oversight for USDA for the project. The recipient is responsible for providing the technical assistance required to successfully implement and complete the project. The recipient must comply with any requests for information from the Technical Contact. The Technical Contact for this award is the National Program Officer assigned to this grant.

Prior to execution of this grant, the recipient must provide a shapefile depicting the project boundary for enrollment under this grant. Producer enrollment may not occur outside this boundary without modification of this grant. Within 30 calendar days of execution of this grant, the recipient must provide to the National Program Officer a website address where enrollment information will be posted for producers for the project associated with this grant. Recipients will be responsible for the following reports:

- Submit quarterly performance reports that include a written progress report, as well as additional reporting on specific data elements contained in the most up-to-date version of the Partnerships for Climate-Smart Commodities Project Reporting Workbook. Additional information about each reported element is described in the Data Dictionary.
- Submit supplemental reports required to validate greenhouse gas (GHG) benefit data, including: (1) an initial project MMRV plan, (2) field-modeled GHG benefit reports, and (3) field-direct GHG measurement results, as applicable. Additional information about these reports is in included in the Data Dictionary.
- Submit copies of project outputs and deliverables (e.g., fact sheets, reports) as attachments in ezFedGrants along with quarterly performance reports.
- Report the version of COMET-Planner used to estimate GHG benefits of the project within each quarterly performance report. As COMET-Planner is updated, recipients must adopt the latest version of the tool as directed by USDA for use in performance reports.

Recipients must designate an individual as a member of the USDA Partnerships for Climate-Smart Commodities Learning Network (Partnerships Network); this representative should be identified in the Project Narrative for this grant. Each project includes a plan for up to two Partnerships Network virtual meetings and two in-person meetings a year during the project duration. Dates and other details on events will be posted at <u>www.usda.gov/climate-smartcommodities</u> or an alternative location provided to the recipient by the National Program Officer.

The Partnerships Network will be co-chaired by representative from the USDA Office of the Chief Economist and the Farm Production and Conservation Mission Area. The Partnerships Network will inform synthesis reports to be assembled by USDA on a range of topics related to the implementation of Partnerships for Climate-Smart Commodities projects, including:

- Lessons-learned as projects are implemented;
- Options for providing technical assistance;
- Procedures for measurement/quantification, monitoring, reporting, and verifying GHG benefits;
- Options for tracing climate-smart commodities through the supply chain;
- Mechanisms for reducing costs of implementation;
- A forum for discussion and learning regarding approaches to climate-smart agriculture and forestry implementation (including but not limited to deployment and

measurement/quantification, monitoring, reporting, tracking, and verification of associated greenhouse gas benefits and marketing of climate-smart commodities).

- Synthesis of outcomes; and
- Opportunities for USDA and others to inform future approaches to generating new and expanded markets for climate-smart commodities.

The Partnerships Network topics to be discussed will cover at minimum the areas described in previous FAQs and will evolve with USDA's ongoing project data analysis efforts and with input from the project recipients on the kinds of sessions that will be most helpful to them in building the diverse climate-smart markets associated with their projects. Participation may include at least one interview a year and include questions related to the following areas:

- Technical assistance approaches, methods, and successes and/or challenges
- Producer outreach approaches, methods, and successes and/or challenges
- Monitoring, measurement, reporting, and verification (MMRV) approaches, methods, and successes and/or challenges
- Marketing approaches, methods, and successes and/or challenges
- Partnership approaches, methods, and successes and/or challenges
- Data collection and storage approaches, methods, and successes and/or challenges
- Supply chain approaches, methods and successes and/or challenges, including approaches to traceability
- Supply chain benefits and demand for climate-smart commodities
- Perspectives on program design, climate-smart commodity definitions, and future approaches or opportunities
- Project successes and stories

USDA may also request producer exit reports at a later date. Additional marketing and branding-related requirements may be provided by USDA, including signage related to Partnerships for Climate-Smart Commodities.

### VII. Competition and Anti-Competitive Practices

In connection with this grant, recipients may not prohibit or otherwise limit a producer from changing the provider of other services or materials not included as part of this grant. Recipients may not condition, limit, steer, or discriminate in their provision or sale of non-project business functions or products to producers based on their participation or non-participation in or use of any services provided as part of this grant. Additionally, funds in this agreement shall not be used for purposes or activities related to mergers or acquisitions.

### VIII. Suspension and Disbarment

The provisions governing Suspension and Disbarment in subsection 1.a.8 shall also apply to fraud, embezzlement, theft, forgery, bribery, falsification, or destruction of records, making false statements, or violations of the Federal civil antitrust or unfair trade practice laws.

### IX. Special provisions for awards to for-profit entities as recipients

This section contains provisions that apply to awards to for-profit entities. These provisions are in addition to other applicable provisions of these terms and conditions, or they make exceptions from other provisions of the terms and conditions for awards to for-profit entities. For-profit entities that receive awards have two options regarding audits:

- A financial related audit of a particular award in accordance with Generally Accepted Government Auditing Standards issued by the Comptroller General of the United States, in those cases where the for-profit entity receives awards under only one USDA program; or, if awards are received under multiple USDA programs, a financial related audit of all awards in accordance with Generally Accepted Government Auditing Standards issued by the Comptroller General of the United States; or
- 2) An audit that meets the requirements contained in 2 CFR 200 subpart F.

For-profit entities that receive annual awards totaling less than the audit requirement threshold in 2 CFR 200 subpart F are exempt from USDA audit requirements for that year, but records must be available for review by appropriate officials of Federal agencies or the Government Accountability Office.

### X. Non-Disparagement

Recipients may not engage in any advertising deemed by USDA as disparaging to another agricultural commodity or competing product, or in violation of the prohibition against false and misleading advertising. Disparagement is defined as anything that depicts other commodities in a negative or unpleasant light via overt or subjective video, photography, or statements. Comparative advertising is allowable, provided the presentation of facts is truthful, objective, not misleading, and supported by a reasonable basis.