

U.S. Department of Agriculture Natural Resources Conservation Service

### NOTICE OF GRANT AND AGREEMENT AWARD

			<b>1</b>				
1. Award Identifying Number	2. Amendm	nent Number	3. Award /Project Per	iod	4. Type of award instrument:		
NR233A750004G090			Date of final signat 09/01/2028	ure -	Grant Agreement		
5. Agency (Name and Address)			6. Recipient Organiza	ation (Nam	e and Address)		
USDA Partnerships for Climate c/o FPAC-BC Grants and Agre 1400 Independence Ave SW, Washington, DC 20250 Direct all correspondence to F	eements Div Room 3236	ision	TALLAHASSEE FL	ICE PRES 32307-31	IDENT FOR RESEARCH		
7. NRCS Program Contact	- State - Alter - Alter - Alter - 199 - A	dministrative ntact	9. Recipient Program Contact		10. Recipient Administrative Contact		
Name: GREGORIO Cruz-	Name: CH/	ARLENE WINTERS	Name: Ravares Conr	ner	Name: Shari Moore		
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TT. CFDA	12. Authori	ty	13. Type of Action		14. Program Director		
10.937	15 USC 71	4 et sea	New Agreement	Agreement Name: Gloria Spradley-			
KATINA HANSON			3.000		(b)(6)		
Acting Senior Advisor for Climate-Smart Commodities					27. 19 3 No.		
Climate Chart Commodities							
2							
15. Project Title/ Description: E NC, OK and SC, and supports fa	xpands mar armer imple	kets for climate-smar mentation and monite	t fruit, vegetable, orga oring of climate-smart	nic and sp practices.	ecialty crops in AL, FL, GA, MS,		
16. Entity Type: T = Historically	Black Colle	ges and Universities					
17. Select Funding Type							
Select funding type:	1	🕅 Federal		Non-F	ederal		
Original funds total	1	\$4,999,990.00		\$0.00			
Additional funds total		\$0.00	\$0.00				
Grand total		\$4,999,990.00		\$0.00			
18. Approved Budget							

Personnel	\$1,036,995.00	Fringe Benefits	\$230,397.00
Travel	\$220,500.00	Equipment	\$0.00
Supplies	\$166,765.00	Contractual	\$734,298.00
Construction	\$0.00	Other	\$2,611,035.00
Total Direct Cost	\$4,470,053.00	Total Indirect Cost	\$529,937.00
		Total Non-Federal Funds	\$0.00
		Total Federal Funds Awarded	\$4,999,990.00
		Total Approved Budget	\$4,999,990.00

This agreement is subject to applicable USDA NRCS statutory provisions and Financial Assistance Regulations. In accepting this award or amendment and any payments made pursuant thereto, the undersigned represents that he or she is duly authorized to act on behalf of the awardee organization, agrees that the award is subject to the applicable provisions of this agreement (and all attachments), and agrees that acceptance of any payments constitutes an agreement by the payee that the amounts, if any, found by NRCS to have been overpaid, will be refunded or credited in full to NRCS.

Name and Title of Authorized Government Representative KATINA HANSON Acting Senior Advisor for Climate-Smart Commodities	Signature KATINA HANSON 20:09:32 -05'00'	Date
Name and Title of Authorized Recipient Representative Dr. Charles Weatherford Vice President for Research	Signature Wald	Date 9/7/23

### 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 Florida A&M University (Recipient), 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 \$4,999,990.00

TOTAL FEDERAL FUNDS \$4,999,990.00 PERSONNEL \$823,012.00 FRINGE BENEFITS \$182,855.00 TRAVEL \$175,000.00 EQUIPMENT \$0.00 SUPPLIES \$132,353.00 CONTRACTUAL \$604,298.00 CONSTRUCTION \$0 OTHER \$2,552,535.00 (Includes PRODUCER INCENTIVES \$1,125,000.00) TOTAL DIRECT COSTS \$4,470,053.00 INDIRECT COSTS \$529,937.00

TOTAL NON-FEDERAL FUNDS \$0.00 PERSONNEL \$0.00 FRINGE BENEFITS \$0.00 TRAVEL \$0.00 EQUIPMENT \$0.00 SUPPLIES \$0.00 CONTRACTUAL \$0.00 CONSTRUCTION \$0 OTHER \$0.00 (includes PRODUCER INCENTIVES \$0.00) TOTAL DIRECT COSTS \$0.00 INDIRECT COSTS \$0.00

Recipient has an approved Negotiated Indirect Cost Rate Agreement (NICRA) with a rate of 26 percent and a base of Modified total direct costs, consisting of all direct salaries and wages, applicable fringe benefits, materials and supplies, services, travel and up to the first \$25,000 of each subaward (regardless of the period of performance of the subawards under the award). Modified total direct costs shall exclude equipment, capital expenditures, charges for patient care, rental costs, tuition remission, scholarships and fellowships, participant support costs and the portion of each subaward in excess of \$25,000. Other items may only be excluded when necessary to avoid a serious inequity in the distribution of indirect costs, and with the approval of the cognizant agency for indirect costs.

### **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)

# **BEACON** (Pilot)

Farmers Guiding Farmers Towards Climate Smart Agriculture

## EXECUTIVE SUMMARY

BEACON is conceived as a program of the Florida A&M University (FAMU) Lola Hampton-Frank Pinder Center for Agroecology as a mechanism to build agroecological infrastructure and capacity among socially disadvantaged farmers nationally. BEACON aims to engage and empower farmers to share the climate smart benefits of agroecology in direct alignment with the goals of both the Partnerships for Climate-Smart Commodities program and the Center.(Partnerships for Climate-Smart Commodities Fiscal Year (FY) 2022 Partnerships for Climate-Smart Commodities National Funding Opportunity (NFO), 2021) and the Center(FAMU Agroecology Center, 2021). Therefore, BEACON will be an integral part of the Center's operations.

Contemporary approaches to climate-smart (sustainable) agricultural production, research and extension work fail to take into consideration the cultural dimensions of agricultural systems. This is particularly true for such agricultural development research and extension work designed for low resource and socially disadvantaged farmers. Culture, as a concept, is synonymous with a systems-based approach to the study of climate- smart agriculture production. A cultural approach explores, in an integrated fashion, the multiple factors (epistemological, historical, environmental, social, political, economic, technological) that give rise to sustainable agricultural systems.

The tendency is to look at challenges associated with low resource and socially disadvantaged farming communities and sustainable agriculture through the lens of what Peter Rosset describes as a "single axis" approach. (Rosset 2002) The single axis approach privileges linear causality i.e. a single, non-contextual issue as the source of the problem, to the exclusion of contextual causality i.e. context refers to the public policies, economic conditions, and social factors, in relationship to one another, that affect the development and continuance of sustainable agriculture within a 'community food system' setting." (Fogel 2008) The single axis approach is largely responsible for the formation of the popular notion that sustainable/organic agriculture production practices and the consumption of organic foods is the purview of the white, middle class. This assumption has, consciously and unconsciously, driven sustainable agricultural research and extension work directed towards low resource and socially disadvantaged farming. In addition, it has informed the study of social problems within low resource and socially disadvantaged farming communities.

According to the USDA Economic Research Service almost 90% of all farms are small farms (less than \$350,000 in revenue), although they only account for 25% of the agricultural revenue (<u>https://www.ers.usda.gov/data-products/chart-gallery/gallery/chart-detail/?chartId=58288</u>). The work of BEACON seeks to increase the revenues for small, under resourced, and socially disadvantaged farmers while simultaneously decreasing

their contributions to climate change. Small farmers play a critical role in building local food security and serve as local food resourcers and essential service providers in their communities. This was especially realized during the corona virus pandemic crisis and aftermath when many national systems failed, including food distribution systems. Small farmers armed with the Covid-19 social requirements proved able to provide fresh foods to their communities through alternative market strategy mixes.

BEACON employs a collaborative participatory farmer-to-farmer

#### **BEACON** Concept

Oxford Languages defines a beacon as "a fire or light set up in a high or prominent position as a warning, signal, or celebration."

The core concept of BEACON is farmers guiding farmers serving to warn, signal, and celebrate agroecology practices for sustainability. The beacon was selected as a symbol because:

A heacon is intentional and conspicuous A beacon serves as a guide to a higher place A heacon provides support for self-help Beacon is often paired with hope, strength, and freedom

Select farmers in BEACON will serve as "lighthouses" for other socially disadvantaged farmers. The BEACON brand is a symbol of farmers guiding farmers to hope, strength, and freedom for agricultural and economic sustainability.

approach that includes a cost-sharing model and increases the likelihood of adoption.(Niewolny et al., 2017; Gragg et al., 2015; Jessee et al., 2015;). Moreover, it is grounded in the agroecological practices, some of which have been practiced for generations in the community. This approach minimizes the transaction costs that are normally associated with the adoption of climate-smart agricultural practices and overcomes some of the traditional barriers to implementation. The project is designed to be cost neutral for the participant farmers. The lead farmers, referred to as "lighthouse farmers", will be compensated to cover the loss of income from the test plots and time for the development and delivery of the farmer-to-farmer training. Participants in the workshops and trainings will be incentivized for attendance, with additional incentives for adoption of climate-smart strategies.

Significant outcomes of the BEACON Pilot are:

- 1. demonstration-based assessment of the impact on the three pillars of climate smart agriculture (CSA) through culturally relevant agroecology practices
- 2. model for the expansion of CSA for socially disadvantaged farmers
- the BEACON brand for CSA commodities produced by socially disadvantaged farmers

4. farmer-to-farmer certification for culturally relevant climate-smart agriculture (CRCSA).

The BEACON Pilot will work with 12 small socially disadvantaged famers from seven states in the Southern United States, from Florida to Arizona. These twelve farmers will serve as the "lighthouse famers, a beacon" and will engage in practice demonstration and conduct collaborative training with an additional **150** small socially disadvantaged farmers.

The Principal Investigator, Dr. Jennifer Taylor, has extensive experience working with small and socially disadvantage farmers to increase sustainable practices and expand markets. As the creator of the Statewide Small Farms program and organic agriculture practitioner, she is well positioned to carry out the goals of the BEACON Pilot.

Under her guidance, the Statewide Small Farm Program ("FAMU Prepares for Its Statewide Small Farm Program Series - FAMU Forward," 2019), has built capacity among underserved small farm populations and socially disadvantaged farmers and provided access to participatory education, training, and technical assistance on sustainable agroecology-organic farming systems, alternative market development, and relevant specific areas to enable thriveability, resilient livelihoods, and wellbeing. Through this effort, Taylor has built a network of small producers, sharing information on marketing sustainable agricultural products and the benefits of agroecology and organic farming systems to enable healthy environments and healthy food sovereignty-food systems in all communities.

Dr. Taylor worked to develop the Growers' Market in Tallahassee, the only all-organic market in the state of Florida and several other participatory farmer-community markets. The Growers' Market was established in 2005 and has served to strengthen the connection between organic farmers in the region and the local Tallahassee community.

Dr. Taylor is the owner and operator of Lola's Organic Farm, a 32-acre USDA Certified organic farm in rural Georgia where traditional agroecology-organic farming systems strategies and cover crops are used to produce organic vegetables and organic fruits., <u>Lola's Organic Farm - LocalHarvest</u>. The farm, a legacy from Dr. Taylor's grandmother, has been worked again since 2010.

BEACON will partner with the <u>National Black Food & Justice Alliance</u> (<u>blackfoodjustice.org</u>), Southeastern African American Farmers Organic Network (SAAFON), the <u>Tallahassee Food Network</u>, <u>International Federation of Organic</u> <u>Agriculture Movements</u>, <u>Organic Farmers Association</u>, and <u>Women, Food, and</u> <u>Agriculture Network</u>, and the <u>Earth's Garden Network</u>.

Dr. Jennifer Taylor will serve as the principal investigator and primary contact. Jennifer.taylor@famu.edu .

## **PROJECT PLAN**

The goal of BEACON is to develop knowledge production processes, dissemination strategies, capacity, and infrastructure to support the expansion of regenerative agroecology practice demonstration and dissemination, climate mitigation strategies, agroecology-nutritious food sovereignty, and sustainable food systems among underserved and under resourced farmers in the United States, with a focus on socially disadvantaged farmers. We expect to engage 150 farmers over the course of the grant (Bacon et al., 2011; Hammelman et al., 2020; Levkoe et al., 2019; Niewolny et al., 2017). *One-hundred percent of the farmers engaged through BEACON will be small, low resource, underserved, and/or socially disadvantaged farmers*.

This proposal is to establish a pilot program for BEACON which will be used to develop a climate-smart agroeconomic ecosystem model grounded in culturally relevant sustainable agricultural practices, that integrates marketing solutions for climate-smart products and focuses on the health and well-being of socially disadvantaged farmers and their communities (*Black Food Sovereignty Movement Takes Root in Toronto -CSMonitor.Com*, n.d.; Engelhardt, 2011; Hammelman et al., 2020; Levkoe et al., 2019).

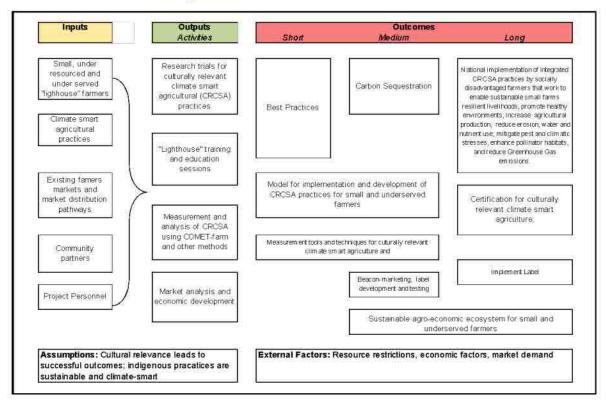


Figure 1. BEACON Logic Model - Farmers Guiding Farmers

BEACON will employ systematic analysis and examine the interconnectedness between the conditions and the solutions. Our aim is to create an interdisciplinary, intersectional,

and inter-organizational (between institutions, socially disadvantaged small farmers, and community-based organizations) approach to agricultural communities (Hammelman et al., 2020; Levkoe et al., 2019).

## **PROJECT OBJECTIVES**

To achieve its goal, BEACON has identified the following specific objectives for the pilot:

- Identify needs, hindrances, barriers, and challenges of participant underserved farmers. Develop knowledge production processes through the establishment of demonstration clusters with early adopter "lighthouse" farmers in each of the seven states using culturally relevant, climate smart agroecological practices, to evaluate the potential for soil sequestration of carbon as a climate resilience strategy and to identify best practices.
- 2. Create a farmer-to-farmer education and training infrastructure to disseminate best practices and facilitate feedback mechanisms.
- 3. Develop capacity and infrastructure to support the expansion of sustainably produced food consumption systems among small and under resourced farmers.
- 4. Implement a sustainable agro-economic ecosystem (infrastructure) for small and underserved farmers within the target community based in culturally relevant practices that increases their capacity to adopt climate-smart production and to market and sell their products within the broader community. Identify appropriate measurement tools and techniques for culturally relevant climate smart agriculture. Farmer-participatory development of CRSRA-label.
- 5. Develop and implement a farmer-to-farmer climate-smart certification using the IFOAM naturally grown program as the model. For fifty years, the International Federation of Organic Agricultural Movements (IFOAM) has been dedicated to training farmers around the world using a systems approach developed by the international organic farming community. IFOAM's Principles of Organic Agriculture incorporate at its root, the practices of Health, Ecology, Fairness and Care. These lay the foundations for an integrated function of agroecology-organic agriculture to promote wellbeing on all farms and adding value throughout and benefits to local and global farm environments.

BEACON recognizes the benefits of inclusion with socially disadvantaged farmers and their communities to extend the benefits of agroecology farm practices and organic farming system's climate-smart strategies to all neighborhoods and communities. BEACON project will build relationships, engage participatory dialogues and capacity building with socially disadvantaged farmers to remove hindrances and traditional challenges, and to enable access and participation in agroecological climate-smart technologies and alternative markets, in order to increase the benefits of agroecology and organic for all communities. (Davenport & Mishtal, 2019; Gragg et al., 2015; Jessee et al., 2015; Niewolny et al., 2017; Pacheco et al., 2006).

## **PROJECT TASKS AND TIMELINE**

### Table 1. BEACON Pilot Task and Timeline

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\* All objectives are conducted in partnership with the participant farmers and project team

## CULTURALLY RELEVANT CLIMATE SMART AGRICULTURE (CRCSA)

Most organic agricultural production and history texts in the United States rely heavily upon cultural and historical references associated with sustainable agricultural traditions in Western Europe and the United States. Invariably agricultural professionals use this body of knowledge as the basis for sustainable agricultural extension work with low resource and socially disadvantaged farmers. From a cultural perspective this implies that the tradition of sustainable agricultural is alien to the low resource and socially disadvantaged farmers. experience. According to Hecht "...why this agricultural heritage has been relatively unimportant in the formal agronomic sciences reflects biases that some contemporary researchers are trying to overcome" (Hecht 1989).

Beginning in Year 1, BEACON will engage approximately 12 small, under resourced, underserved farmers across seven states, Florida, Georgia, Alabama, Mississippi, North Carolina, South Carolina, and Oklahoma, deemed "Lighthouse farmers". These famers, who will be the core of the BEACON program, are currently practicing regenerative agriculture and are interested in the adoption of other agricultural practices that will lead to sustainable communities. Food systems, by their very nature, are strongly entangled with culture. For this reason, it is essential that strategies aimed at increasing the number of low resource and socially disadvantaged farmers engaged in climate-smart (sustainable) agriculture, take into consideration the cultural realities of low resource and socially disadvantaged farmers i.e., the way they "think/feel/talk about sustainable/organic agriculture and the environment." (Fogel 2008). Although these "lighthouse farmers" can be thought of as early adopters, in truth they have been engaged in agroecological practices for generations. **BEACON refers to these practices as Culturally Relevant Climate Smart Agricultural Practices (CRCSA).** 

The Lighthouse farmers will serve the following significant roles in the pilot project:

- The lighthouse farmers will provide core knowledge for CRCSA practices.(Budowle, 2019; Davenport & Mishtal, 2019; Kannan et al., 2010; Ladson-Billings, 1995)
- A small percentage of their acreage will be designated as experimental/demonstration plots for the systematic design and measurement of climate mitigation to identify best practices.
- 3. The selected farmers and ranchers will be "lighthouses", illuminating the path to climate-smart agriculture through participatory workshops and other structured trainings (Budowle, 2019; Niewolny et al., 2017).

The Lighthouse farmers will be identified through the investigators' existing networks using an extensive interview process to develop an analytic description of low resource and socially disadvantaged farmer's agroecological knowledge systems. The interviews will be conducted with three to seven farmers, that have already been identified, in each

of the seven states. Farmers recruited through this process will generally have deep practical knowledge of agroecology likely gained through generational practice, and represent a cross-section of producers within the target community (e.g. farmers, ranchers, bee-keepers etc.). The techniques to be considered include, but are not limited to, the use of cover crops, low-till or no-till soil practices, nutrient management, manure management, buffers, wetland and grassland management, and tree planting on working lands, planting for high carbon sequestration rate, and general choice of crops for sustainability, climate-smart pasture practices, such as prescribed grazing or legume interseeding, apiary management, and alternate wetting and drying on rice fields.

The first year will be focused on the recruitment of lighthouse farmers, assessment and analysis of the existing knowledge base, identifying needs, hindrances and challenges, and establishing practice-demonstration locations, on the farms of the lighthouse farmers. Lighthouse farmers will be provided with a \$10,000 per year stipend to offset the cost of lost revenue for their time and acreage. BEACON will also provide the necessary tools and supplies for the demonstration sites, including the use of specialized equipment that will be made available for shared usage. It is the goal of BEACON that participation, hands-on training, technical assistance, and learning, in the program is at no cost to the farmers (Chirinda et al., 2020; *Partnerships for Climate-Smart Commodities Fiscal Year (FY) 2022 Partnerships for Climate-Smart Commodities Fiscal Year (FY) 2021*).

## TRAINING, OUTREACH, AND EXPANSION

The traditional extension approach engages technical experts who provide proscribed assistance, outreach, and training. The innovation of BEACON is the participatory-collaborative approach that honors the work of the socially disadvantaged farmers and their ancestors, and works to identify needs, hindrances, and possible solutions with farmers leading and **farmers guiding farmers to promote on-farm and forest production of climate smart commodities** (Philpott, 2021; Berkey, 2014; C. Furman, 2014; Wallach, 2020).

Beginning in year two BEACON will implement its farmer-to-farmer model for the training of approximately fifty socially disadvantaged farmers per year. Based on the best practices identified through the participatory capacity building. Each of the lighthouse farmers will hold three farmer-facilitated demonstration workshops per year, either on their farms or at a centrally located extension or other facility in the region. It is anticipated that each of these one-day workshops will attract between 10-30 participants. Active participants will be provided with transportation (or transportation reimbursement) to the workshops, meals for the duration of the workshop. Those who participate in the entire series will also receive a small (\$500) stipend, and those who

adopt the practices within one year of completing the series will receive additional incentives from \$1000 to \$3000, depending on the level of adoption.

The workshops, which will be led by the lighthouse farmers and facilitated by the BEACON team, will be hands-on, collaborative and interactive. The BEACON team will work closely with the lighthouse farmers to develop the workshop structure and materials.

### MEASUREMENT AND MONITORING

Beginning with climate-smart early adopters (Lighthouse farmers) in Year 1, with an emphasis on *Farmers Guiding Farmers*, BEACON will collaboratively engage underserved farmers in how to deploy validated and user-friendly measurement and monitoring tools aligned with their adopted climate smart agricultural practices on their contributed pilot acreage. Practices including, but not limited to (1) sustainable, small to moderate scale mechanization to maintain healthy soils and manage water efficiently, (2) multicropping in associations and/or rotations, (3) agroforestry, (4) crop-livestock systems integration, (4) biochar and on farm production of soil amendments, and (5) cover cropping (FAO, 2022).

The user-friendly online carbon-capture calculator, <u>COMET-Farm™</u> will empower Lighthouse producers with the skills and knowledge to demonstrate to their peers, with ease, in Years 2 -5, how to enter information about their contributed pilot acreage land and management—including location, soil characteristics, land uses, tillage practices and nutrient use—into the online tool. The cohorts of underserved farmers will learn how the tool can estimate the environmental benefits, i.e., carbon sequestration, etc., associated with adoption of climate-smart practices on their pilot acreage (<u>COMET-Farm™</u>: <u>Conservation Calculation | USDA</u>). BEACON will also engage measurement and monitoring consultants, like Cloud Agronomics (https://www.perennial.earth/), that use advanced technology such as hyperspectral imaging to measure and monitor climate smart outcomes(Wang et al., 2022).

The prevalence of environmental health disparities in minority and low-wealth populations calls for measuring and monitoring carbon sequestration beyond its biophysical considerations (i.e., mitigation). BEACON will also collaboratively engage farmer cohorts in measuring and assessing the socio-economic aspects of climate-smart agriculture (i.e., food security, and adaptation), that speaks to the historical and current challenges that confront underserved communities, farmers and households, (Chirinda et al., 2020). This inclusive approach acknowledges the cultural relevance and significance of the insight, experience, knowledge, agency and voice of underserved farmers whose priorities may not be readily aligned with the notion of adopting methods and practices that don't readily advance environmental equity and justice in the climate-smart agricultural response to climate change and global warming

(Making Justice40 a Reality Making Justice40 a Reality for Frontline Communities for Frontline Communities Lessons From State Approaches to Climate and Clean Energy Investment, 2021; Furman, et al., 2014).

MARKET EXPANSION AND BEACON CRCSA CERTIFICATION (BUILDING THE BEACON BRAND)

BEACON is tied to empowering and building capacity with socially disadvantaged farmers and ranchers to enhance the quality of life for the farmers, their families, and their communities. During the 3<sup>rd</sup> and 4<sup>th</sup> years, the BEACON project team and farmer participants will work to develop a culturally appropriate label that summarizes the CRCSA practices on Black and Indigenous owned farmland that benefits the local and global environments, builds healthy food and food sovereignty systems, and promotes healthy communities.

The project's marketing will work to increase market access for socially disadvantaged farmers and ranchers by adding value to farmers products through the benefits of agroecology-organic farming systems' climate smart practices and added-value to black farmland grown agroecology products. All participant farmers will participate in a suite of practices and participatory market development.

Our alternative markets will include regional and national grocery stores that feature special value-added produce-with-a-purpose; that support sustainable resilient agroecology-organic farming systems agriculture and small farm empowerment; and companies and processors that favor growing a healthy planet and customer support for equity.

This project will work to increase access to markets and the development of alternative markets for climate-smart commodities that are grown on Black and Indigenous farmland using a suite of integrated agroecology-organic farming systems strategiesclimate smart practices that enable health and wellbeing for local and global environments and communities.

Marketed by farmer participation: Participant farmers will be featured on podcasts produced during the 4<sup>th</sup> and 5<sup>th</sup> years of the project to talk about what they learned, and experienced using agroecology-organic farming systems, benefits to their farm and marketing, and importance to our local and global environments and communities.

In the 4<sup>th</sup> and 5<sup>th</sup> year of the project, the BEACON team and farmer participants will collaborate to develop the model NS framework for a farmer-to-farmer certification process.

## Overview Training, Outreach, and Expansion

Generally underserved small farmers, resource poor farmers have not had access to research and extension development activities provided to medium and large-scale farmers and agribusinesses. Traditionally underserved small farmers, resource poor farmers have not participated in and benefited from innovative development programs, resources, trainings and technical assistance provided to medium and large-scale farmers and agribusiness.

The Climate Smart Agricultural Practices- BEACON pilot project will recruit small and underserved farmers and work together to provide participatory education, technical assistance and training on agroecology climate smart practices and the benefits to their farm, environment, community and food system.

Participant farmers will adopt and implement a suite of climate-smart agriculture/agroecology-organic farming systems practices on their own farms to produce the BEACON Project's climate smart commodity-specialty crop produce. The BEACON Project proposes to implement practices on land that is used for agricultural production. No practices involve ground disturbances below the plow zone.

## Farmer Climate-smart commodities

The climate-smart commodities/specialty crops will include field beans and peas, leafy greens (collards, turnips, mustards, cabbage) tomatoes, corn, peanuts, okra, sweet potatoes, white potatoes, squash, eggplants, peppers, pecans, sorghum, sugar cane, peaches, and plums, etc. grown by underserved small farmers under climate-smart agriculture/agroecology-organic farming systems practices.

## Value-added Marketing Plan

The BEACON project will measure/quantify, monitor and verify the carbon and greenhouse gas benefits associated with the climate smart commodity practices and specialty crops assessed through the COMET Tool. These results, along with the on-farm implemented climate-smart agriculture/agroecology-organic farming systems practices will add value to the farmer's environment, and to the climate-smart commodity/specialty crops in the marketplace.

The BEACON project has worked to develop sustainable long-term alternative markets opportunities for climate-smart commodities generated as a result of the project activities. We estimate an increase of 30-50% in revenue due to participation in the BEACON marketplace partnerships.

## Marketing

The BEACON project has developed alternative market connections designed to support underserved small farmers and their climate-smart agricultural practices/agroecology-organic farming systems practices and market the value-added climate-smart commodities/specialty crop and food sovereignty commodities that they grow.

These alternative markets include with the National COOP Grocers based out of Saint

Paul, MN. National COOP Grocers stores are located throughout the region, and in Tallahassee, Florida. This partnership would provide a national market opportunity for underserved small farmers/BEACON farmers and their value-added climate-smart commodity/specialty crops and food sovereignty.

Another partnership is with INOFO and the national-international marketplace, BIOFACH. BIOFACH is the world's leading organic and agriculture trade fair. BIOFACH has annual trade shows (East Coast) in Pennsylvania and (West Cost) in California where multiple-thousands of vendors from across the nation and globally come to showcase their organic and agroecology-valued items for distribution, sales. BEACON farmers will have a market booth and access to participate as on-site farmer vendors through our collaborator, INOFO (Intercontinental Network of Organic Farmers Organizations) and IFOAM North America. Taylor is the INOFO-North America Convener of Continents, and INOFO Executive Board Member. Taylor is the IFOAM North America, President, and IFOAM World Board Member.

As importantly, the BEACON project farmers will also engage and participate in local farmers markets-direct to consumer markets, CSAs, and U-Picks as a local viable marketplace where our local communities can enjoy the benefits of climate-smart commodities and climate-smart agriculture and increase awareness of NRCS and the BEACON project.

A slide presentation of this effort is located here: https://docs.google.com/presentation/d/100F2qctpe6SzTWTKcMz\_jtLo7YdEoXf8NyVIKIWrfl8/e dit?usp=sharing

## Farmer participation, practice change

BEACON farmers will participate in on-farm agroecology-organic farming systems/climate-smart agriculture demonstrations and monthly learning sessions, that will help to identify challenges and build farmer knowledge on the value of climate smart practices to their farm operations and surrounding communities. These on-farm sessions will be facilitated by BEACON farmers, technical assistance facilitators, community collaborators, PI and CoPI. NRCS will be asked to participate and share information on relevant programs.

Participating farmers will learn about the alternative market opportunity strategies associated with adopting the climate-smart commodity practices. Farmers will identify fields/acreage for project participation. These fields will transition to climate-smart agriculture/ agroecology-organic farming systems practices as farmers implements the practice change.

The BEACON farmers, community collaborators and the Lola Hampton-Frank Pinder Center for Agroecology will work closely with participating farmers to monitor and ensure that practices meet the standards, and IFOAM naturally grown, organic for all model. The IFOAM Organic for all model works to strengthen the capacity of all farmers to use agroecology-organic farming systems practices that promote conservation of natural resources, and that build healthy soils, healthy environments, healthy food systems/food sovereignty systems, and healthy communities.

## List of project's climate smart agricultural practices

Agroecology-Organic Farming Standards using cultural relevant climate smart agriculture (CRCSA).

Agroecology is a wholistic systems-based approach to transforming agriculture, the environment and food system through honoring indigenous knowledge, conserving local ecosystems, integrating practices that promote wellbeing - wellbeing in soils, environments, food systems/food sovereignty systems and communities.

BEACON Project uses agroecology cultural relevant climate smart agriculture practices that include integrating cover crops, raised beds, crop rotations, mulches, composting, seed saving, low till, and selecting plant varieties that grow best in farmers local environment and soil types. Agroecology farming strategies promote small farm sustainability through practices that build healthy soils, promote biodiversity, beneficial insects and pollinators, and cultural management strategies that promote resilience and mitigate erosion, loss of soil moisture, invasive weeds, pest, disease, and climate disruptions.

Participant farmers will use organic and non-treated seeds, and agroecology-organic farming system amendments that support the National Organic Program-Organic System Plan and organic agriculture. Farmers will be encouraged not to use synthetic fertilizers and synthetic pesticides; these do not support agroecology farming or organic agriculture.

BEACON project will work with an organic certification agency and technical assistance-organic inspectors to ensure that farmers maintain NOP guideline practices. Those farmer participants who would select to continue the agroecology-organic farming systems practices towards organic certification application during the project will be provided information. Relevant USDA programs (USDA NRCS, NOP, FSA, etc.) and eligibility requirements will be shared with farmer participants.

## Farmer Implementation of practices

Farmers will enter a BEACON FARMER Collaboration and Learning Agreement with the Lola Hampton-Frank Pinder Center for Agroecology and the collaborating community organizations. The signed document will help to ensure farmer's participation in the climate-smart agriculture and agreement to meet the Agroecology standards outlined above. The document will help to encourage farmer participation in data collection, capacity building sessions, harvest and crop preparation, label development, and farmer participation in alternative markets.

Farmers who choose not to participate in the BEACON Agreement will be encouraged to continue participation in transitioning to agroecology-organic farming systems/climate-smart agriculture practices and sessions to enhance farm wellbeing and benefits to environment and local food systems.

The 12 "Lighthouse" farmers will receive \$10,000 each annually to cover the cost of using a small percentage of their farm acreage to (1) host demonstration sites, (2) collaboratively develop the farmer-to-farmer training workshops in climate smart agriculture, carbon sequestration data collection, and climate smart agricultural

products marketing, (3) to serve as a possible storage location for the regional tool bank, and (4) serve as a mentor for farmers interested in transitioning to climate smart agricultural production practices. The 12 farmers will each host/mentor/organize 12-13 BEACON farmer participants at their farm site. Year 1 will focus on recruiting lighthouse farmers and establishing the demonstration sites on farms within *farmer network cluster* (FNC) organizations.

Beginning in year two, up to 50 farmers per year (a maximum of 150 farmers over 3 years), excluding the lighthouse farmers, who join in the workshop series will receive up to \$500 for participating based on the table below. There will be four workshops per year, per series, at each FNC designated training site.

Number of Workshops Attended	Incentive Received						
1 workshop	\$125						
2 workshops	\$250						
3 workshops	\$375						
4 workshops	\$500						

Each participating farmer will then receive an incentive of up to \$3,000 over the course of 3 years (\$1,000/year) for adopting climate-smart practices beginning in year three. The amount of the incentive received will be determined by the number of NRCS Climate Change Mitigation Practices (CCMP) adopted by a given farmer, over a given year, based on the table below. The mechanism for receiving the incentive parallels the Climate Smart Agricultural Certification farmer to farmer training process developing under the BEACON project. Evaluation of a given farmer's practices in order to distribute the incentives, will mimic the processes used to certify a given farmer is producing climate smart agricultural products.

Number of CCMP Practices Adopted	Incentive Received						
1 practice	\$200						
2 practices	\$400						
3 practices	\$600						
4 practices	\$800						
5 practices	\$1000						

BEACON Project will use the NRCS standards, work closely with the project's technical assistance experts to implement practices. Those farmers that meet eligibility and NRCS approval for EQIP and/or Organic EQIP initiatives may benefit from the USDA NRCS practices if they are not already a participant.

Farmers may adopt at least 5 practices for example within suite A: Cover crops, 340 -Cover Crop; Low-till, 345 - Residue and Tillage Management, Reduced Till; No-till, 329 -Residue and Tillage Management to reduce soil erosion; No-Till soil practices; 336 - Soil Carbon Amendment; 327 - Conservation Cover; 328 - Conservation Crop Rotation; Tree planting, 612 - Tree/Shrub Establishment. Farmers will select practices that best meet the needs of their farm, agroecology-organic farming systems practices that promote small farm climate-smart sustainability – Along with the Agroecology Standards stated above.

Or,

Farmer participants may adopt at least 5 practices within suite B: 328 - Conservation Crop Rotation, 484 – Mulching; nutrient management, 590 - Nutrient Management, manure management; Buffers, 386 - Field Border; 393 - Filter Strip; No-Till soil practices; 336 - Soil Carbon Amendment; Wetland, 644; Grassland management, 528 - Prescribed Grazing; tree planting, 612 - Tree/Shrub Establishment; and/or, select two from the CSA and Forestry Activities lists that best meets the needs of their farm and promotes small farm climate-smart sustainability - these will be added to make a total of at least five practices – Along with the Agroecology Standards stated above.

## Farmer Documentation of Implementation

The farmers will report the before and after implementation. The farmer participants will identify and keep track of the following characteristics:

## Before Beacon Project

Farm track/field number or field name; crop name, planned amount; applied amount, year applied; identify agricultural practices used; wildlife types; pollinator types, farmer comments.

## During Beacon Project

Farm track/field number or field name; crop name, planned amount; applied amount, year applied; wildlife types; pollinator types planted, native species, agroecologyorganic farming system/climate smart agricultural practices implemented; climate-smart commodity alternative markets; farmer comments.

## Measurement/quantification, monitoring, reporting, verification

Farmers activities will be monitored by lead BEACON farmers, community organizations, technical assistance facilitators, and the Lola Hampton-Frank Pinder Center for Agroecology. NRCS could provide additional assistance. We are excited to use the COMET Tool with underserved small farmers on their diversified farms.

The COMET Tool will help farmers to measure and estimate a carbon footprint for the participant's field or track and allows farmers to evaluate different activities for reducing GHG emissions and sequestering more carbon.

The BEACON Project will add to the knowledge and participatory development with underserved small, diversified farms using agroecology-organic farming systems practices/climate-smart agriculture and changes to management practices that may reduce greenhouse gas emissions and the critical impact to small scale resource poor farmers and their communities.

### Identifying Activities and characteristics with COMET Tool

In order to set a baseline measurement of the farmer's diversified small farm operation lead farmers will also work with technical assistance facilitators and NRCS to best use the tool.

Farmers will identify field activity and characteristic including field/track location, soil type, soil pH, organic matter; identify historic field management, tillage practices, irrigation dates/end date, type of irrigation, rain-fed, amendment fertility application/manure application, identify crops, crop management, tillage history, planting date, crop rotations, conservation practices, water holding capacity, harvest date, yields, residue.

### Climate smart agriculture/agroecology-organic

Participant farmers will add new climate-smart agricultural management practices/agroecology-organic farming systems practices to include reduced tillage, cover crops, crop rotation, mulches, pollinator habitats, erosion cover; and identify water holding capacity, harvest dates, yields, residue.

Research suggested that we should expect that the utilization of agroecology-organic farming systems/climate smart agriculture practices to grow agroecology-organic methods specialty crops/climate smart commodities would mitigate impacts of climate change and result in reductions in greenhouse gas emissions and improvements in soil organic matter storage as well as other environment and conservation benefits. <u>https://www.climatehubs.usda.gov/hubs/california/topic/greenhouse-gas-</u>mitigation-and-specialty-crops.

## Outcomes of documentation and implementation

- Farmer discussion forums and inter-learning on-farm implementation, monitoring, recording measurements.
- Identifying hindrances, challenges, successes, benefits; future approaches.
- Farmer discussion forums on market development as a result of the on-farm value-added practices (climate smart agriculture/agroecology organic farming system practices); And the resulting value-added climate smart commoditiesspecialty crops grown by small scale underserved farmers.
- · Farmer feedback on label development, marketing strategies, Podcasts.
- · Increased farmer awareness and practice change.
- Farmer participation in BEACON alternative markets
- Increased utilization of climate-smart agriculture practices, Agroecology/organic farming systems.

### PARTNERSHIPS

The PIs and the Lola Hampton-Frank Pinder Center for Agroecology (Center) have strong relationship with several organizations that will contribute to BEACON, all of which increase connections to equity and small farmers.

The Center has an ongoing relationship with the National Black Food and Justice Alliance (NBFJA). is a coalition of Black-led organizations working towards cultivating and advancing Black leadership, building self-determination, institution building and organizing for food sovereignty, land and justice. NBFJA currently has 38 member organizations representing hundreds of urban and rural farmers, organizers, and land stewards based in eastern, Midwestern, southern and western regions of the U.S. NBFJA members have worked together to build an intergenerational, urban/rural alliance of organizations to map, assess, train and deepen the organizing, institution building and advocacy work protecting Black land and work towards food sovereignty.

AGREEMENT TO PARTICIPATE IN THE PARTNERSHIPS NETWORK

BEACON agrees to participate in the Partnerships Network.

## PROJECT TEAM

DR. JENNIFER TAYLOR - PRINCIPAL INVESTIGATOR

Dr. Jennifer Taylor will serve as the principal investigator and project director for BEACON. Dr. Taylor serves as Extension faculty in the College of Agriculture and Food Science (CAFS)at Florida A&M University where she created and operates the Statewide Small Farm Program, and is co-director of the Center for Agroecology, holding the rank of Associate Professor.

Under her guidance, the Statewide Small Farm Program has built capacity among underserved small farm populations and socially disadvantaged farmers and provided access to participatory education, training, and technical assistance on sustainable agroecology-organic farming systems, alternative market development, and relevant specific areas to enable thriveability, resilient livelihoods, and wellbeing. Through this effort, Taylor has built a network of small producers, sharing information on marketing sustainable agricultural products and the benefits of agroecology and organic farming systems to enable healthy environments and healthy food sovereignty-food systems in all communities.

Dr. Taylor worked to develop the Growers' Market in Tallahassee, the only all-organic market in the state of Florida. The Market was established in 2005 and has served to strengthen the connection between organic farmers in the region and the local Tallahassee community.

Dr. Taylor is also a practitioner of climate-smart agriculture. She and her husband, operate Lola's Organic Farm, a 32-acre USDA Certified organic farm in rural Georgia where traditional agroecology-organic farming systems strategies and cover crops are

used to produce organic vegetables and organic fruits. The farm, a legacy from Dr. Taylor's grandmother, has been worked again since 2010.

Highly engaged in the organic agricultural industry Dr. Taylor currently serves as President of the International Federation of Organic Agricultural Movements (IFOAM) North America and sits on the World Board of IFOAM – Organics International and in 2020 was appointed to the Board of Directors for the Rodale Institute. She also serves on the Boards of the Cornucopia Institute, Organic Farmers Association, Women, Food, and Agriculture Network, and the Intercontinental Network of Organic Farmers Associations. She serves as an advisory member to the National Organic Coalition and the FAMU Center for Biological Control. From 2011-2016, she served on the National Organic Standards Board and held positions as a member of the NOSB Policy Development Committee and Chair of the Materials Committee.

In 2019 Dr. Taylor was named Woman of the Year in Agriculture for the state of Florida for her work with small farms in the state and region and received the Rodale Institute's Organic Pioneer Award for her contributions to the organic farming movement.

## DR. KWASI DENSU-CO-PRINCIPAL INVESTIGATOR

Dr. Kwasi Densu will serve as co- principal investigator for BEACON. He is a tenured faculty member in the College of Social Sciences, Arts, and Humanities and co-director of the Center for Agroecology. He is also the former assistant faculty director of FAMU's Sustainability Institute and a current member of the institute's advisory council. Dr. Densu's research focuses on the socioeconomic dimensions of agroecology with a specific emphasis on indigenous agricultural knowledge, rural development, and agrarianism among socially disadvantaged farmers in the United States and the Global South. In addition, he is an organic farmer in Tallahassee and the owner of Lu Lu Organics.

DR. RICHARD GRAGG - CO-PRINCIPAL INVESTIGATOR

## **CRITERIA SPECIFIC TO FUNDING POOL**

The BEACON Pilot directly addresses all the criteria specific to the funding pool:

- Innovative pilot project
- Enrollment of small and/or underserved producers, and/or
- monitoring, reporting, and verification activities at minority serving institutions

### INNOVATION

The innovative nature of the BEACON pilot lies in its ability to engage and empower farmers to share the climate smart benefits of agroecology. The use of culturally relevant climate smart agricultural (CRCSA) practices, the collaborative structure, and the farmer-to-farmer training and education represent a fresh approach to this work and

are more likely to result in adaptation by the target producers. The development of the BEACON brand and certification also adds to the unique nature of BEACON and specifically address the market expansion requirements of the program.

## EQUITY

BEACON is strategically focused on small, low-resource, and underserved producers (socially disadvantaged) through all aspects of the program. One-hundred percent of the 150 farmer participants, beginning with the lighthouse farmers, will fall into one or more of these categories.

The adoption of or increase in the use of CRCSA practices by participant farmers will lead to an increased yield and concomitant increase in revenue for the participant farmers. Additionally, the development of the BEACON brand and certification in conjunction with the market expansion is anticipated to further increase the revenue of the participant farmers. The pilot program is designed to quantify these benefits.

The program is based in the Lola Hampton-Frank Pinder Center for Agroecology (Center) at Florida A&M University (FAMU), an historically black university (HBCU). As a result, the vast majority of the monitoring, reporting and verification activities will be conducted at a Minority Serving Institution (MSI). The company identified for external evaluation, Manden Strategy, LLC is 100% Black Woman owned, and the identified pool of companies for the measurement and monitoring includes two 100% black-owned businesses. Additionally, their activities will be guided from FAMU.

## CONCLUSION

The BEACON Pilot will develop a model to engage and empower small, under resourced, and socially disadvantaged farmers and ranchers to share the climate smart benefits of agroecology while increasing their revenues. Grounded in agroecology, BEACON uses a collaborative participatory demonstration approach, a cost-sharing model, and farmer-facilitated technical assistance and training all of which improve the likelihood of acceptance. BEACON will expand the market and increase farmer revenue through the development of a culturally relevant climate smart agriculture product brand and an accompanying farmer-to-farmer certification.

The BEACON pilot program will impact a minimum of 162 small, underserved, socially disadvantaged farmers and ranchers across seven states in the southeast and mid-south.

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### **BEACON Pilot – Farmers Guiding Farmers**

### **PROJECT TASKS AND TIMELINE**

#### Table 1. BEACON Pilot Task and Timeline

Solidify climate-smart strategies for pilot       Co-PII         Establish research sites       PI - Ta         Coordinate and manage climate impact analysis using COMET-farm       Co-PIC         Identify best practices through grower interviews and data analysis       PI - Ta         Evaluate objective and process       PI - Ta         Create a farmer-to-farmer education and training infrastructure to disseminate       PI - Ta         best practices and facilitate feedback mechanisms. Conducted In partnership       Mander Stra         With participant farmers, and project team.       PI - T         BEACON growers workshops and hands-on training       Co-PI         Develop capacity and infrastructure to support the expansion of sustainably       PI - T         moducted food consumption systems among small and under resourced farmers.       Conducted In partnership         BEACON growers workshops and hands-on training       Co-PI         Develop capacity and infrastructure to support the expansion of sustainably       Co-PI         produced food consumption systems among small and under resourced farmers.       Co-PI = T         BEACON growers workshops and hands-on training       Co-PI = T         BEACON growers workshops and hands-on training       Co-PI = T	PI Densa Taylor Taylor Taylor Taylor Taylor PI Densa Taylor Strategy, LLC PI Densa Taylor Strategy, LLC PI Densa Taylor
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Develop and implement a farmer-to-farmer climate-smart certification using	
he IFOAM naturally grown program as the model. Test and implement label. Conducted In partnership with participant farmers, and project team.	1 Graeg
Market focus groups to test the brand Co-PI I	T Densi
Implement the BEACON label P1 - Ta Evaluate objective and process Manden Strat	Toulor

Meetings with farmers to discuss project results. Farmer participants discuss knowledge gained, practices changed, and impacts. Virtual webinars, conferences and webinars with Farmer organizations Farmer podcust Manden Strategy, LLC Co-PI Densu

PI-Taylor

**PI-Taylor** 

Twice per year beginning in year two.

\* All objectives are conducted in partnership with the participant farmers and project team

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

NRCS Practice Code	Practice Name
327	Conservation Cover
328	Conservation Crop Rotation
329	Residue and Tillage Management, No-Till
336	Soil Carbon Amendment
340	Cover Crop
345	Residue and Tillage Management, Reduced Till
386	Field Border
393	Filter Strip
484	Mulching
528	Prescribed Grazing
590	Nutrient Management
612	Tree/Shrub Establishment
644	Wetland Wildlife Habitat Management

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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Appendix B: Commodity List

#### **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 Numeric result from soil sample Annual Soil sample result 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 1922 - 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 ~ i ~ i</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 Scherosofter and a submitted States and a strategy state (see States and sold strategy states).</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

USDA Partnerships for Climate-Smart Commodities Data Dictionary for Recipients	
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	

USDA Partnerships for Climate-Smart Commodities Data Dictionary for Recipient	S
February 2023	

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.
- [1] 에너스 CHI 22 [1] 너희 25 CHINNER 2000 M THAT 전쟁 업가스 전쟁 2000 H THAT CHINA CH	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 같아. 것은 것은 것을 것을 것을 것을 것을 것을 것 같아. 나는 것을 것을 것을 것 같아. 나는 것을 것을 것 같아. 나는 것은 것 같아. 나는 것을 것 같아. 나는 것 않아.
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	Unique Farm ID assigned by FSA	
State or territory	2	State name (must match FSA farm enrollment data)	
County of residence	County name (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		Service Charles and Sold and Contraction West 172 (2) and and (31) (5)	
Data element name: Producer start 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/YYYY		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	
	, socially 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	
(第二) 報	, a small producer, or both underserved and a small producer. Use "I don't	
	nswer. Departmental Regulation 4370-001 provides USDA's policies for	
collecting demographic data, includi	ing 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>	
	5,000 or more acres      Beguired: Vec	
Logic: None - all respond		
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 s</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
	<ul> <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
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 de la succession de la succession de la succession de la succession de la succ	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. (35)	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:
2,	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

USDA Partnerships for Climate-Smart Commodities Data Diction	any for Posinionts
	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. 말 것 같아요. 말 많 것 같아요. 이 가 있는 것 같아요. 그는 것 같아요. 그는 것 같아요. 가 있는 것 같아요. 가 있는 것 같아요. 가 있는 것 같아요. 가 있는 것 같아요. 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 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 differences of the second second to the 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

ncentive type	
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	
	<ul> <li>Cash payment</li> <li>Equipment loan</li> </ul>
	<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	vided to the producer upon enrollment/signing a contract, and not
	vided to the producer upon enrollment/signing a contract, and not
related to any implementation, MMRV or	vided to the producer upon enrollment/signing a contract, and not
related to any implementation, MMRV or contract held by the producer is paid upo	vided to the producer upon enrollment/signing a contract, and not ir sales activities. Full payment means the full incentive amount for any on enrollment. Partial payment means that only part of the full
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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 (S)	hat 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
51 J.50	ns the full incentive amount for any contract held by the producer is
paid upon MMRV being complete. Partial pa	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 he producer is paid upon MMRV being complete.
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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 he 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	<ul> <li>MMRV being complete. No payment means that none of the full he producer is paid upon MMRV being complete.</li> <li>Select multiple values: No</li> <li>Allowed values:</li> <li>Full payment</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 he 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 <b>Data type:</b> List <b>Measurement unit:</b> Category	<ul> <li>MMRV being complete. No payment means that none of the full he 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 <b>Data type:</b> List <b>Measurement unit:</b> Category <b>Logic:</b> None – all respond	<ul> <li>MMRV being complete. No payment means that none of the full he 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> </ul>
contract held by the producer is paid upon incentive amount for any contract held by t <b>Data type:</b> List <b>Measurement unit:</b> Category <b>Logic:</b> None – all respond <b>Data collection level:</b> Producer	<ul> <li>MMRV being complete. No payment means that none of the full he 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 l 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 he 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 <b>Data type:</b> List <b>Measurement unit:</b> Category <b>Logic:</b> None – all respond <b>Data collection level:</b> Producer	MMRV being complete. No payment means that none of the full he 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	<ul> <li>MMRV being complete. No payment means that none of the full he 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> <li>Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity?</li>
contract held by the producer is paid upon a 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 he 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 a 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 provide contract. Full payment means the full incen	<ul> <li>MMRV being complete. No payment means that none of the full he 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> <li>Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity?</li> <li>ed to the producer upon sale of the commodity included in the tive amount for any contract held by the producer is paid upon sale.</li>
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 contract. Full payment means the full incen Partial payment means that only part of the	<ul> <li>MMRV being complete. No payment means that none of the full he 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> <li>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 tive 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</li>
contract held by the producer is paid upon a incentive amount for any contract held by to <b>Data type:</b> List <b>Measurement unit:</b> Category <b>Logic:</b> None – all respond <b>Data collection level:</b> Producer <b>Payment on sale</b> <b>Data element name:</b> Payment on sale <b>Description:</b> Any incentive payment provide contract. Full payment means the full incen Partial payment means that only part of the upon sale. No payment means that none of	<ul> <li>MMRV being complete. No payment means that none of the full he 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> <li>Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity?</li> <li>ed to the producer upon sale of the commodity included in the tive amount for any contract held by the producer is paid upon sale.</li>
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 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 he 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 tive 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 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 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 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 he 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 tive amount for any contract held by the producer is paid the full incentive amount for any contract held by the producer is paid 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 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 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 he 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 tive amount for any contract held by the producer is paid the full incentive amount for any contract held by the producer is paid 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 provide 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 he 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 tive 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 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 provide 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 he 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 tive 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 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 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 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 he 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 tive amount for any contract held by the producer is paid the full incentive amount for any contract held by the producer is paid 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 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 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 he 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 tive 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 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	Unique Field ID assigned by FSA	
State or territory of field St	State 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	7 8 8 8 7	
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 frequency: Quarterly			
Data collection level: Field				
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 frequency: Quarterly			
Data collection level: Field				
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         <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?	<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	

USDA Partnerships for Climate-Smart Commodities Data Dictionary for Re	cipients
February 2023	

ield GHG reporting		
Data element name: Field GHG reporting	Reporting question: How were GHG benefits reported for this	
1-3 Description: Up to the ten three forms of	field? porting 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 an and	
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	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	gregate 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	<b>Reporting question:</b> 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	Unique 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	Coun	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	Reserve rescalation and measurements and second Reserved and a second second second second second second second		
Measurement unit: Category Allowed values: FSA commodity list		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		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?
	vas a single point in time, use the same date for start date
and end date. If multiple measurements took place over 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
Measurement unit: Metric tons CO <sub>2</sub>	Select multiple values: No Allowed values: 0-10,000,000
7.5	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 ga 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 Description: Change in carbon stock based on practice sampling in this field. (Results for initial field soil sampling	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	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 sampl '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 sampl '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	<b>Reporting question:</b> 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	Reporting question: 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
823	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

Reporting question: What is the unit for how much reduction in
nitrogen losses have been measured in the field?
uction in nitrogen losses that is measured and reported in the
appropriate value as free text in the additional column.
Select multiple values: No
Allowed values:
Kilograms
Metric tons
<ul><li>Pounds</li><li>Other (specify)</li></ul>
Required: Yes
Required. (es
Data collection frequency: Annual
— And a set — September 4 and a set of the address of the set of the address of the set.
Reporting question: What is the purpose of tracking reduction in
nitrogen losses?
nitrogen losses in the enrolled field. If "other" is chosen, enter the
al column.
Select multiple values: No
Allowed values:
Commodity marketing
Producing insets
<ul> <li>Producing offsets</li> <li>I don't know</li> </ul>
Other (specify)
Required: Yes
Data collection frequency: Annual
Reporting question: Are reductions in phosphorus losses being
tracked in the field?
norus losses in the enrolled field. Tracking means at a minimum that can quantify benefits.
Select multiple values: No
Allowed values:
Yes
• No
I don't know
Required: Yes
Required: Yes Data collection frequency: Annual
Data collection frequency: Annual Reporting question: How much reduction in phosphorus losses have been measured in the field?
Data collection frequency: Annual Reporting question: How much reduction in phosphorus losses have been measured in the field? osphorus losses that is measured in the field.
Data collection frequency: Annual Reporting question: How much reduction in phosphorus losses have been measured in the field? osphorus losses that is measured in the field. Select multiple values: No
Data collection frequency: Annual Reporting question: How much reduction in phosphorus losses have been measured in the field? osphorus losses that is measured in the field.

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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
	Producing insets
	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 report	ner were alle the state of the
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. MARKANING VOUN		
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 outeBory	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 mil	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
	ತ್ರವರ ಆಗ್ರೆ ಕರ್ಷ ಸ್ನಾರ ಕ್ಷೇತ್ರಗಳು ಸಂಪ	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. I	······································	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:

- 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.