



NOTICE OF GRANT AND AGREEMENT AWARD

|                                                                                                                                                                                                                                                       |                                                                |                                                                                                                                                                    |                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|
| 1. Award Identifying Number<br>NR233A750004G007                                                                                                                                                                                                       | 2. Amendment Number                                            | 3. Award /Project Period<br>Upon final signature - 03/15/2028                                                                                                      | 4. Type of award instrument:<br>Grant Agreement               |
| 5. Agency (Name and Address)<br><br>USDA Partnerships for Climate-Smart Commodities<br>c/o FPAC-BC Grants and Agreements Division<br>1400 Independence Ave SW, Room 3236<br>Washington, DC 20250<br>Direct all correspondence to FPAC.BC.GAD@usda.gov |                                                                | 6. Recipient Organization (Name and Address)<br><br>MAPLE HILL CREAMERY LLC<br>540 LAKE COOK RD<br>DEERFIELD IL 60015-5657<br><br>UEI Number: YDWECHTQK1H9<br>EIN: |                                                               |
| 7. NRCS Program Contact<br><br>Name: TANYA CULBERT                                                                                                                                                                                                    | 8. NRCS Administrative Contact<br><br>Name: Melanie Krizmanich | 9. Recipient Program Contact<br><br>Name: James Hau                                                                                                                | 10. Recipient Administrative Contact<br><br>Name: Mitch Clark |
| (b)(6)                                                                                                                                                                                                                                                |                                                                |                                                                                                                                                                    |                                                               |
| 11. CFDA<br><br>10.937                                                                                                                                                                                                                                | 12. Authority<br><br>15 USC 714 et seq                         | 13. Type of Action<br><br>New Agreement                                                                                                                            | 14. Program Director<br><br>Name: Mitch Clark<br>(b)(6)       |
| 15. Project Title/ Description: Expands markets for climate-smart organic grassfed dairy, specialty grains, and oilseeds in NY; supports farmer implementation and monitoring of climate-smart practices that reduce greenhouse gas                   |                                                                |                                                                                                                                                                    |                                                               |
| 16. Entity Type: Q = For-Profit Organization (Other than Small Business)                                                                                                                                                                              |                                                                |                                                                                                                                                                    |                                                               |
| 17. Select Funding Type                                                                                                                                                                                                                               |                                                                |                                                                                                                                                                    |                                                               |
| Select funding type:                                                                                                                                                                                                                                  | <input checked="" type="checkbox"/> Federal                    | <input checked="" type="checkbox"/> Non-Federal                                                                                                                    |                                                               |
| Original funds total                                                                                                                                                                                                                                  | 20,000,000.00                                                  | 15,339,549.00                                                                                                                                                      |                                                               |
| Additional funds total                                                                                                                                                                                                                                | \$0.00                                                         | \$0.00                                                                                                                                                             |                                                               |
| Grand total                                                                                                                                                                                                                                           | 20,000,000.00                                                  | 15,339,549.00                                                                                                                                                      |                                                               |
| 18. Approved Budget                                                                                                                                                                                                                                   |                                                                |                                                                                                                                                                    |                                                               |

|                   |               |                             |                |
|-------------------|---------------|-----------------------------|----------------|
| Personnel         | \$579,215.00  | Fringe Benefits             | \$139,012.00   |
| Travel            | \$120,731.00  | Equipment                   | \$32,500.00    |
| Supplies          | \$20,000.00   | Contractual                 | \$1,387,950.00 |
| Construction      | \$0.00        | Other                       | 17,720,592.00  |
| Total Direct Cost | 20,000,000.00 | Total Indirect Cost         | \$0.00         |
|                   |               | Total Non-Federal Funds     | 15339549.00    |
|                   |               | Total Federal Funds Awarded | 20,000,000.00  |
|                   |               | Total Approved Budget       | 35,339,549.00  |

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<br><br>Katina Hanson,<br>Acting Senior Advisor for<br>Climate-Smart Commodities | Signature <b>KATINA HANSON</b><br>Digitally signed by KATINA HANSON<br>Date: 2023.04.14 09:33:22 -05'00' | Date           |
| Name and Title of Authorized Recipient Representative<br><br>James Hau<br>President and CEO                                            | Signature <i>James Hau</i>                                                                               | Date<br>4/7/23 |

#### 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 Maple Hills Creamery LLC (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.

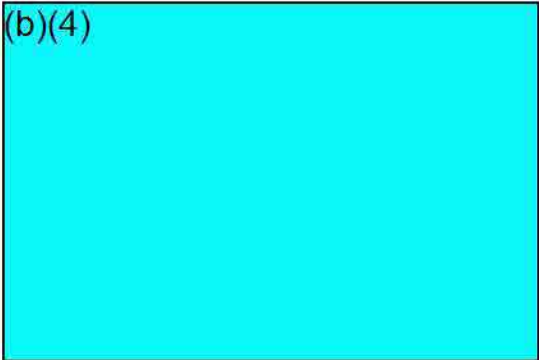
TOTAL BUDGET \$ 35,339,549

PERSONNEL \$579,215  
FRINGE BENEFITS \$139,012  
TRAVEL \$120,731  
EQUIPMENT \$32,500

When equipment is purchased with Federal funds it must be used until no longer needed as described in the General Terms and Conditions and 2 CFR 200. If the residual value of the equipment is \$5,000 or more at the time it is no longer needed, the recipient must request disposition instructions. The disposition instructions may direct the recipient to: 1) sell the equipment and return a proportionate share of the proceeds to the Federal agency; 2) transfer title to another eligible entity identified by the Federal agency; or 3) keep the equipment if desired and compensate the Federal agency for its proportionate share of the value.

SUPPLIES \$20,000  
CONTRACTUAL \$1,387,950  
CONSTRUCTION (usually n/a) \$  
OTHER \$5,307,000  
PRODUCER INCENTIVES \$12,413,592  
TOTAL DIRECT COSTS \$20,000,000  
INDIRECT COSTS \$  
TOTAL FEDERAL FUNDS \$20,000,000

(b)(4)



Recipient has elected to use the de minimis indirect cost rate and will contribute indirect costs as match.

TOTAL NON-FEDERAL FUNDS \$15,339,549

**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)
- SF429 Real Property Status Report: Due within 120 calendar days of the period of performance end date. Send as an attachment to email to FPAC.BC.GAD@usda.gov.

**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

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of the Freedom of Information and Privacy Act

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# Growing the Supply and Market for Climate-Smart Grassfed Organic Dairy via Maple Hill Creamery

**Project  
Lead**

**Mitchell Clark  
VP of Operations  
Maple Hill Creamery**

540 Lake Cook Rd Ste 120,  
Bannockburn, IL 60015  
Phone: 515-441-3574  
Email: mitch.clark@maplehillcreamery.com

## Project Partners

| Organization                     | Role                                                                                    |
|----------------------------------|-----------------------------------------------------------------------------------------|
| Maple Hill Creamery              | Project Lead. Farmer Outreach and Support                                               |
| Dharma Lea, LLC                  | Technical Assistance Provider. MMRV Lead. Farmer Early Adopter                          |
| Paul Harris Development, LLC     | GHG Project Verifier. Technical Assistance.                                             |
| Stone Barns                      | Reporting Support, Insect Pilot with Related Data Analysis                              |
| Point Blue Conservation Science  | Farm Monitoring Framework and Technical Assistance, Data Integrity Support and Analysis |
| DGA Dairy Grazing                | Underserved Farmer Recruitment, Technical Assistance.                                   |
| Open TEAM at Wolfe's Neck Center | Data Management Tools, Data Analysis Support                                            |
| Shannon O'Sullivan               | Spanish Translator for Farmer-Facing Documents                                          |
| K&O Farm                         | Farmer Partner Early Adopter                                                            |
| James Young                      | Farmer Partner Early Adopter                                                            |
| Amber Waves                      | Farmer Partner Early Adopter                                                            |
| Spring Weather Farm              | Farmer Partner Early Adopter                                                            |
| Serenity Acres Farm              | Farmer Partner Early Adopter                                                            |
| Evening Star Ranch               | Farmer Partner Early Adopter                                                            |
| Reginelli and Aeschlimann        | Farmer Partner Early Adopter                                                            |
| Adam Tafel                       | Farmer Partner Early Adopter                                                            |

|                     |                              |
|---------------------|------------------------------|
| <b>Periggo Farm</b> | Farmer Partner Early Adopter |
| <b>Whole Foods</b>  | Retail Partner               |

## Executive Summary

The dairy industry, like many other industries in the nation, has been subject to intense economic pressures, global supply chain shocks, and rising input costs. In addition, commodity milk production facilities continue to rely heavily on feed and intensive land usage without much consideration to the environmental and climate change impacts. Small grassfed climate-smart dairies are well-positioned to adapt to these market forces and create a product that is better for the climate, the farmer, the cow, and the customer. Maple Hill Creamery and our network of small farmers are well-positioned to create climate benefits while also reducing farmer reliance on feed and external inputs and eliminating competition for limited feedstocks such as corn, wheat, and soy.

In addition to continuing to improve their economic resilience, grassfed organic dairies can continue to improve the environmental conditions on their land if provided financial support, technical assistance, and a community of collaborators to learn from. They will require assistance to get through the initial phases of shifting the way their milk is produced and marketed, particularly as they pay the "ecological debt" to the soil which has been depleted by extractive agricultural practices of the past. After this initial phase, farmers typically continue to improve production methods moving forward.

Maple Hill Creamery has shown that there is a market for grassfed organic dairy products and that customers are willing to pay a premium to purchase them. We are proposing this Partnership to take the next step in delivering climate-smart grassfed organic products allowing us to further incentivize conservation behavior among farmers. We will correlate the GHG benefits incentivized with a pasture scoring process with the hope of building a low-cost delivery model that rewards farmers for Pasture improvements that result in emissions reductions. This effort will also allow us to build the necessary support infrastructure for the farmers to implement these practices and the marketing program needed to grow customer demand.

### Geographic Focus

All of Maple Hill Creamery's 130 small farmers are in New York State. The reach of their production methods extends much further. Farmers across the Northeast, and many throughout the country, have learned from our producers' shared experiences. Research studying grassfed dairy production as a whole in Vermont has featured our farmers, and collaboration with our Partner DGA (Dairy Grazing Apprenticeship) has reached Wisconsin. While our focus will be on New York producers, our data and conclusions will easily be generalized to the Northeast and will be helpful to all top US dairy states.

### **Reducing Transaction Costs for Farmer Implementation**

Our approach to implementation relies heavily on group training and collaboration. Maple Hill Creamery has close ties to our producers and is a trusted partner in delivering economic benefits. Our producers have experienced the benefits of this approach already in their transition to grassfed, and we anticipate the same effect on this implementation as well. The willingness to share reduces the trial and error, boosts confidence and adoption rate, and encourages success.

In addition to delivering our program via trusted relationships, our ability to link pasture scoring with GHG incentives will create long-term opportunities for farmers and reduce verification and monitoring costs. The pasture scoring process has been utilized by USDA and has been shown in our farmer network as an effective means for identifying opportunities for improvement.

We have a closed supply, and we will have known acreage enrolled in the program and supported by our partners. Our GHG accounting will relate the total benefits of: CO<sub>2</sub>E, acres impacted, pasture health metrics (biodiversity, forage dry matter production, litter incorporation, and more), insect data, and soil carbon data to the total pounds of milk produced by all of Maple Hill producers.

### **Reducing Barriers to Marketing**

Our consumers already look for the benefits our producers bring to their dairy purchases. Our products are chosen because of our unique production model, and our consumers rely on our ability to ensure that the cows are managed in a way that meets their expectations and produces a healthier more nutrition-dense product. Our team is experienced in bringing the messages of better production to consumers in more than 7,500 stores nationwide.

### **Project Management Capacity**

Maple Hill Creamery is trusted by our network of producers. We have established robust supply chains that have allowed us to work with small producers while other commodity companies seek to consolidate their supply via a fewer number of larger producers. We currently provide technical assistance to these small farmers and this project is a natural extension of that effort. We have the necessary management staff, as outlined in the budget, and the support network to deliver tangible GHG emission reductions while also improving the economic outlook for our farmers.

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## **Background**

As America's original 100% grassfed organic dairy, Maple Hill's mission is to bring healthy, 100% grassfed organic dairy products to families all over the United States. As a result, healthy soil is the cornerstone of literally everything we do. We work tirelessly within

our network of small 100% grassfed organic farms to develop and implement practices that result in the regeneration of the land through the management of organic grassfed cows. This Partnership for Climate-Smart Commodities effort represents an extension of that commitment. We look forward to enhancing opportunities for our farmers, the land, and our customers.

As consumers and retailers alike increasingly understand the 100% grassfed organic value proposition, our Upstate New York Milkshed has grown from two farms when founded in 2009 to over 130 farms in 2022. Maple Hill is now one of the fastest-growing dairy brands in the U.S. Consumers can find Maple Hill in over 7,500 retail stores across the US, including Whole Foods, Kroger, Publix, Natural Grocers/Vitamin Cottage, Walmart, Safeway, Sprouts and Stop and Shop, as well as hundreds of independent grocers and specialty retailers. With the Partnership for Climate-Smart Commodities effort, every one of those retailers will become avenues for marketing climate-smart dairy products via an update of the Maple Hill Creamery brand promoting GHG reduction benefits implemented by our growing farmer network.

Maple Hill Creamery began when one farm, owned by Tim and Laura Joseph, began selling their cows' milk direct to consumers as grassfed organic whole milk yogurt. Their success led them to seek more supply, and Paul and Phyllis Van Amburgh left their market and joined them with the shared vision of providing a viable premium price and more market options for New York's small dairy farmers. The creamery grew rapidly, in spite of the limited supply since grassfed milk was not yet a commodity. What began as field days open to any producer willing to learn and share became a powerful tool for transitioning dairy farmers to producing 100% grassfed milk. Two farms turned into 12, then 39, then 67, and so on. All small farmers milking 30-100 cows, many of them from our growing communities of Amish and Mennonite family farms, and the milkshed was well underway.

Tom, Laura, Paul, and Phyllis gathered farmers several times each year to share successes and innovations, backed by innumerable phone conversations and farm visits, to bring dozens of small organic and conventional farms through the transition to 100% grassfed production. Along the way, they contributed to the development of a unified standard so that any organic certifier can now also third-party verify 100% grassfed dairy production. The Maple Hill Creamery milkshed is a model of success for the widespread adoption of new sustainable and environmentally friendly production practices at the commodity level.

Our seminars and field days have always been open to producers from any market and of any production type, because of our core belief that sharing experience and collaboration is beneficial to all. Because of this, we have strong positive relationships and an excellent reputation as a catalyst for progress, not only within our own milkshed but with many partners throughout the region who are eager to help us succeed in promoting further Climate-Smart commodity practices.

With this five-year pilot effort, we are proposing building upon our successes. We will be able to work with our network of partners and producers to implement additional climate-smart practices, incentivizing implementation and providing training support, which will lead to greater environmental practices and enhanced viability for farms that implement them. In addition, our strong track record in marketing products focused on ecologically minded production will position us to promote GHG emission reductions to a growing customer base.

## Overview of Climate-Smart Grazing Practices

In 100% grassfed organic dairy production, cows that are on pasture are moved intentionally through the pasture system so that only a portion of the pasture is grazed at any given time. The remaining areas are excluded so that forage populations can recover and re-grow without the need for tilling of the soil required for conventional dairy cow feed. By maintaining their farms' acreage in perennial pasture and hay, our farmers "avoid conversion" into cropping. This avoided conversion of approximately 37,000 acres represents 39,200 CO<sub>2</sub>e sequestered in the soil, where it helps retain fresh water and feed diverse plant life, rather than being released into the atmosphere.

This grazing management ensures that manure and urine are evenly distributed, desirable forage species have optimal growing conditions, and the cattle maintain a high plane of nutrition throughout the season. Some key considerations include

1. Pasture is defined as an area containing standing forage of quantity and quality to be a complete feed source for all post-weaned classes of the dairy herd.
2. Grazing management achieves a) biodiversity of plant, microbial, insect, and wildlife populations, b) highest nutritional content of forage as a complete cattle feed, c) plant growth, and d) overall health of the soil, cattle, and forages.
3. "Direct from Pasture" is maintained in the true spirit of grazing as meaning the forage is consumed directly by the cow, via the act of grazing (biting).
4. Cows maintain a minimum of 60% dry matter direct from pasture throughout the grazing season.
5. The grazing season is a minimum of 150 days and may be extended to include days of grazing stock-piled standing forage in addition to all days of forage growth (nondormancy.)
6. Grazing planning principles include planning "backwards" so that herd moves anticipate a future point in time and are adjusted in reverse in order to achieve the anticipated timing. The use of Time, Timing, and Behavior places the herd in the right place, at the desired time, and with the desired behavior (effect.)

While grazing is incredibly beneficial to our landscape, it is not always directly associated with being "climate-smart." As such, we are expanding our work with dairy producers to delve deep into not only the conservation benefits of grazing lands, but to accelerate

soil carbon sequestration, build wildlife habitat, and improve overall biodiversity. We will utilize a Pasture Scorecard developed for this purpose, which is based on the NRCS Pasture Condition Score and other similar global standards for grassland evaluation.

As part of this effort, we will support an enhanced and expanded set of practices that will promote GHG emissions reductions for the other land use acreage of the farms. This climate-smart grassfed organic program will include incentivizing a suite of NRCS Conservation Practices found below. The vast majority of our farmers have found themselves to be too small to compete for inclusion in NRCS-funded programs in their locales, and we are eager to assist them in benefiting from the implementation of these practices through this opportunity. In addition, we will provide expert technical assistance, and high-level correlations between the implementation of practices and productivity, soil carbon data, ecological health, and long-term benefits. We will share evaluation tools and techniques that will enable each producer to determine their own successes in the future. The self-evaluation aspect of the program addresses the concern that our small farmers do not have a source of cost-effective carbon or ecosystem service verification services available as individual, low-acreage projects.

Farmers will be encouraged to implement as many of the practices listed as possible. For each activity, an incentive will be provided based on two factors: CO<sub>2</sub> reductions and pasture score improvement. Outcomes will be tracked, monitored, and promoted in the final commodity marketing. To track and monitor the success of the program, we will be coupling COMET estimates with our robust Pasture Scorecard, which is built on the USDA Grazing Lands Technology Institute Pasture Condition Scoring, creating a long-term mechanism for understanding the soil impacts of this work. This is further described in the MMRV section below. We have estimated the acreage to be enrolled by practice based on our farmer network and growth plan, as well as the CO<sub>2</sub> emissions reductions via COMET.

#### Practices for Enhanced Climate-smart Grassfed Organic

| CPS | Focus                      | Definition                                                                       | Est. Acres Enrolled Total* | Est. Tons CO <sub>2</sub> Total |
|-----|----------------------------|----------------------------------------------------------------------------------|----------------------------|---------------------------------|
| 327 | Conservation Cover         | Establishing and maintaining permanent vegetative cover.                         | 15                         | 20                              |
| 328 | Conservation Crop Rotation | A planned sequence of crops grown on the same ground over a period of time.      | 150                        | 34                              |
| 329 | Residue and Tillage        | Limiting soil disturbance to manage the amount, orientation, and distribution of | 1,200                      | 495                             |

|       |                                               |                                                                                                                                                                                                                          |        |        |
|-------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|
|       | Management - No-Till                          | crop and plant residue on the soil surface year-round.                                                                                                                                                                   |        |        |
| 345   | Residue and Tillage Management - Reduced Till | Managing the amount, orientation, and distribution of crop and other plant residues on the soil surface year-round while limiting the soil-disturbing activities.                                                        | 1,500  | 209    |
| 381   | Silvopasture                                  | An application establishing a combination of trees or shrubs and compatible forages on the same acreage.                                                                                                                 | 100    | 0      |
| 386   | Field Border                                  | Creating a strip of permanent vegetation at the edge or around the perimeter of a field.                                                                                                                                 | 50     | 68     |
| 390   | Riparian Herbaceous Cover                     | Grasses, sedges, rushes, ferns, legumes, and forbs tolerant of intermittent flooding or saturated soils, established or managed as the dominant vegetation in the transitional zone between upland and aquatic habitats. | 50     | 68     |
| 391   | Riparian Forest Buffer                        | An area predominantly trees and/or shrubs located adjacent to and up-gradient from watercourses or water bodies.                                                                                                         | 15     | 69     |
| 484   | Mulching                                      | Applying plant residues or other suitable materials to the land surface.                                                                                                                                                 | 100    | 32     |
| 512** | Forage and Biomass Planting                   | Conversion of Annual Cropland to Non-Irrigated Grass/Legume Forage/Biomass Crop                                                                                                                                          | 30400  | 37,459 |
| 528   | Prescribed Grazing                            | Managing the harvest of vegetation with grazing and/or browsing animals.                                                                                                                                                 | 50,000 | 1,138  |
| 550   | Range Planting                                | Establishment of adapted perennial vegetation on grazing land.                                                                                                                                                           | 6,000  | 3,015  |
| 612   | Tree/Shrub Establishment                      | Establishing woody plants by planting seedlings or cuttings, direct seeding, or natural regeneration. This is focused on the conversion of annual cropland.                                                              | 10     | 162    |
| 650   | Windbreak/ Shelterbelt Renovation             | Replacing, releasing, and/or removing selected trees and shrubs or rows within an existing windbreak or shelterbelt, adding                                                                                              | 125    | 50     |

|                        |  |                                                                                    |  |        |
|------------------------|--|------------------------------------------------------------------------------------|--|--------|
|                        |  | rows to the windbreak or shelterbelt or removing selected tree and shrub branches. |  |        |
| <b>ESTIMATED TOTAL</b> |  |                                                                                    |  | 40,474 |

\*Some acres will be treated with multiple conservation practices.

\*\*Incentivized via avoided conversion payment

## Recruiting Producers

Maple Hill Creamery is a trusted partner in the upstate New York milkshed. We have experienced steady growth in interest from local producers and as we expand our market share, are looking forward to engaging more farmers in our work. We will work with our network of existing partners, and additional producers, to enhance the climate-smart benefits of Maple Hill dairy products.

This will begin by engaging our existing network of 130 small farms. Representing approximately 30,000 acres, these farmers milk 7,600 cows. In the first year of the program, we will work with early adopters, who have agreed to work with our team to identify efficient incentive delivery methods, the timing of payment, key support needs, and impacts on fluid milk production. Following our early adopter program, we intend to expand the program to the entire Maple Hill Creamery farmer network. This addition of approximately 130 farms in Year 2 will be supported by a three-member farm services team, technical support consultants, and a full-time pilot program manager.

As Maple Hill Creamery grows, so will the program. We anticipate a 15% growth in fluid milk purchases year-over-year. With this growth, we will add approximately 15 small farmers each year based on our current average operation size of 56 head of cow. These new producers will be offered voluntary incentives through the climate-smart partnership in years 2-5. In total, we anticipate reaching approximately 185 small farmers over the five-year period.

Our network consists of entirely small dairy producers and we will make a concerted effort to recruit additional underserved farmers into the Maple Hill Creamery network. A key recruitment partner, the Dairy Grazing Apprenticeship, will support the identification of new farmers, targetting underserved populations in the region. DGA also provides value by training and supporting these farmers so that they are positioned to succeed. Throughout the pilot, we will continue to focus on recruiting both small and underserved farmers in accordance with our company and partnership priorities.

# Delivering Incentives

Participating producers will receive incentives for a variety of activities. We have designed a multi-method incentive structure to ensure that we are delivering GHG benefits while also setting up the pilot for long-term success. The incentives provided will include:

## 1. **Avoided Conversion Payment**

Due to broader market pressures and the difficulty farmers have in converting to grass and legume forage, we will provide an incentive payment to farmers for participating in the program and for committing to maintaining grass and legume forage on their fields instead of annual cropland. This payment will be based on a \$100 per ton of CO<sub>2</sub>e avoided and follow *NRCS CPS 512 Forage and Biomass Planting - Conversion of Annual Cropland to Non-Irrigated Grass/Legume Forage/Biomass Crop*. Based upon the standard we anticipate 1.23 tons of CO<sub>2</sub>e in avoided emissions per acre of pasture/hay. The incentive will be paid as 2 \$50 payments. The first after enrollment and the second following two years of climate-smart grassfed organic production.

## 2. **Direct Conservation Practice Incentive**

To further incentivize reducing GHG emissions and improving soil health, farmers will receive a voluntary incentive payment of \$100 per ton of CO<sub>2</sub>e emissions reduced based upon the implementation of NRCS conservation practices listed in the table above.

## 3. **Pasture Scoring Incentives**

To correlate pasture scoring with GHG benefits, we will create an innovative incentive that rewards farmers for improving their Pasture Score. Farmers will work with partners to score their properties upon enrollment. Upon enrollment, they will receive a payment of \$1 per pasture score point per acre with a high score of 100 based upon our enhanced pasture scoring system. In subsequent years, they will be re-scored, receiving \$10 per acre per point improved over their baseline. This will encourage continuous improvement and the adoption of climate-smart practices while allowing our team to build the data needed to correlate Pasture Scoring and GHG benefits.

## 4. **Training Incentives**

We value and appreciate the time that our farmer network puts into improving their operations. Thoughtful and well-trained farmers can do more over the years than a single one-time incentive program. As such, we plan on incentivizing farmer participation in our training sessions and technical assistance described below. Farms can earn up to \$1000 per year depending on their level of engagement in the program.

## Delivering Technical Assistance

A core strength of the Maple Hill Creamery network is the way in which technical assistance to our partner farms is at the core of everything we do. Grassfed organic dairies are unique and our 130 farmers meet with Maple Hill Staff, technical experts, and each other on a regular basis. Technical assistance will be led by Dharma Lea, LLC co-owner Phyllis Van Amburgh. Dharma Lea is one of the founding farms of Maple Hill and Phyllis has led the Maple Hill Creamery Technical Assistance program for the last decade. Phyllis will deliver a series of training programs and work with three field operations staff at Maple Hill to conduct farm visits and support the network.

Farmers will have access to a series of training programs each year. Three to five Pasture Walks will be conducted annually. These walks, similar to a field day, focus on key issues an individual farmer is facing and creative solutions to overcome those challenges. The participants work together and learn from their shared experiences to support the farm hosting the event. They then take these lessons back to their own operations.

These events will be coupled with one or two winter training meetings where farmers will participate in sessions provided taught by local experts, extension, university partners, and fellow farmers. These sessions are supplemented by approximately nine shorter technical seminars each year. Moving forward these sessions will each focus on one of the conservation practices targeted through our climate-smart commodity pilot, including instruction on the navigation of the COMET tools. Summaries of each practice as they relate to the specific production of grassfed milk will be generated and distributed in both English and Spanish. We will also produce a webinar on each of the practices that will be recorded and available on-demand to our network.

Twice per year, we gather all the dairy producers in the Maple Hill Creamery network for bi-annual meetings. These events will again serve as an opportunity for delivering technical assistance and support. Each of these events will include talks from Phyllis and other experts, troubleshooting sessions, and peer discussions. These gatherings also offer immense opportunities for our farmers to engage each other and learn how they can enhance their operations, increase milk production while maintaining soil health, and deliver on the mission of Maple Hill.

Finally, this program will not be possible without a series of on-farm visits. Our field operations team and technical support providers will work to visit each farm twice in the first year of enrollment and annually beyond that. In that first year, the first visit will focus on training and baseline data collection while the second will include troubleshooting, implementation needs, and data collection. In all subsequent years, visits will include data collection to ensure GHG outcomes. Over the course of the program, this will equate to 845 farm visits as a result of this partnership. Each farm visit will involve the participating producer and include walking the fields, inspecting the milking operations, discussing issues and challenges, and identifying ways to further improve the soil to reduce GHG

emissions. In addition, these visits will also be key to our MMRV process as they will be dual purposed as opportunities for site monitoring and sampling.

## Monitoring, Measurement, Reporting, and Verification

To ensure that the GHG benefits of the project are calculated and that Maple Hill Creamery can begin marketing our products as climate-smart with confidence, our MMRV program is designed around the utilization of a combination of core tools: COMET, a Pasture Scorecard, on-farm soil sampling, and third-party soil health measurements.

The monitoring, measurement, and reporting will be led by technical expert Phyllis Van Amburgh, with third-party verification performed by Paul Harris Development. The following process will be used to ensure that GHG emission reductions and pasture score are calculated and can be associated with the climate-smart grassfed organic dairy products.

The Monitoring and Measurement will consist of farm visits where photographs of pastures and NRCS Conservation Practice acreages will be taken, soil samples will be collected, and Pasture Scorecards will be completed. Insect population samples will also be gathered at representative farms. The photos will be used to quantify forage biodiversity in pastures and to verify practices that entail seeding or vegetation establishment such as cover crops, permanent grass-legume establishment, windbreak renovation, etc. Photographs will also serve to identify plant species in the pastures. The soil samples will bolster the established COMET CO<sub>2</sub>e for each practice chosen and demonstrate soil carbon levels for the milkshed. The insect population data will provide information about the health of the biome. Photos, soil sample results, and Pasture Scorecard data will be uploaded to a secure file.

### Monitoring

Once farmers have been engaged and enrolled in the incentive program, we will verify that the acreage is neither subject to offsets, nor receiving other funding for the same practices from NRCS. We will also confirm that the landowner or farmer plans to control the acreage for the full life of the pilot program. Since this confirmation is critical to ensure the farmer understands their commitment to the program, we will continue to verify this on an annual basis via a site visit.

Annual monitoring site visits will include photographs to track vegetation establishment, seedings, cover crops, and pasture health. The soil will be sampled utilizing the soil sampling framework developed by our partners at Point Blue Conservation Science and with their guidance. The soil health measurements will include as many as 8,500 randomized sample locations over the course of the pilot throughout the milkshed pasture system. Each location will be sampled at two depths: 0-15 cm, and 15-30 cm. This will produce a total of up to 17,000 samples to be analyzed by Ward Labs for total organic carbon content. In addition, up to 530 aggregate samples

from throughout the milkshed will be sent for full-spectrum "routine" analysis (minerals, nutrients, etc.) to provide traditional soil profile data. Producers will be engaged and encouraged to participate in this sampling process so that they can understand the process and gain an understanding of the metrics that are critical to the evaluation of soil health and GHG reductions.

Enhanced [pasture scores](#) will also be completed during the visits. The Pasture Scorecard is a tool utilized to evaluate the current pasture productivity and the stability of the plant community, soil, and water resources. We will use this on-farm evaluation method with sampling data to verify outcomes. The pasture score evaluates 12 key indicators including litter incorporation, dung decomposition, live canopy abundance, vigor and reproductive capability of grasses, legumes, and other contextually desirable forbs, evidence of microfauna, amount of plant litter, capping, wind and water erosion, and bare ground. Each indicator is evaluated via a point scale based upon the detailed guidance provided by our technical assistance partners, and is underpinned by existing guidelines found in NRCS programs. This evaluation will produce a set of scores that will be used to evaluate additionality and co-benefits to climate-smart outcomes such as enhanced carbon sequestration, improved habitat and biodiversity, and increased forage biomass.

## Measurement

With sampling and site observations complete, our team will move from monitoring to measurement. Soil samples will be sent for lab analysis after each data collection visit. The soil carbon data will be used to make maps, and correlations will be identified between pasture scores and carbon data. All data will be stored securely by Maple Hill Creamery via cloud storage in alignment with existing data collection conducted throughout our farmer network. Data will be securely shared with Dharma Lea for evaluation, and with Paul Harris Development for verification. Insect samples will be quantified. Pasture Scorecard and soil carbon metric values will be compared to data from prior years to fully understand the practice outcomes and identify opportunities to reduce monitoring and verification costs moving forward.

## Verification

Paul Harris Development will lead the verification process of the data following standardized steps. The verification process will ensure that the requirements of the CPS methodology are being met and that the project's GHG reductions are quantified correctly and corroborated by the lab data.

This process will begin with a **document assessment and desktop review**. The process will confirm conformance with all practices, identify any issues that require further evaluation, and identify any circumstances that would threaten the integrity of future efforts. The verifiers will evaluate the calculations conducted via COMET to replicate and verify the results.

An audit plan will be developed and submitted to Maple Hill Creamery for review. The audit plan will include assessment objectives and criteria, level of assurance evaluation, materiality threshold, and evaluation schedules.

Once an audit plan has been agreed upon, a **site visit and farmer interview** will be conducted to evaluate conformance with practice standards. At the completion of that process, Paul Harris Development, LLC will prepare a **Preliminary Findings Report**. If any issues are identified the Maple Hill farm support team and Phyllis Van Amburgh will work with the farms to correct any deficiencies. Following any improvements, Paul Harris Development will complete its evaluation of findings and produce a final audit report confirming GHG benefits from the project. This process will be repeated on an annual basis during the pilot phase and as additional practices are implemented on-farm.

## Reporting

After the early adopter's process is complete, soil data, pasture condition score metrics, and dry matter production of pasture (derived from grazing chart data) will be compared and examined for trends and/or correlations with the help of technical assistance partners at Wolfe's Neck / Open TEAM, DGA, and Point Blue Conservation Services. If correlations exist, producers will be able to examine their climate benefits via pasture condition scoring and dry matter production in future years.

Independent of the outcome of that evaluation, data reports and outcomes will be reported at the farm level, in practice-specific reports, and for the pilot as a whole. At the farm level and for practice-specific reporting, CO<sub>2</sub>e will be reported on a per-acre, per-fluid milk hundred-weight, and per-gallon basis. Based on the farm reports, farmer technical assistance will be further tailored to enhance GHG reduction benefits.

At the project level, CO<sub>2</sub>e will be reported via acres, the number of cows, and fluid milk hundred-weight. In addition, Maple Hill Creamery will investigate conducting a life-cycle assessment that will look at the supply chain impacts and emissions including energy use, waste, water use, and transportation systems to fully understand the GHG impacts of its various product categories. CO<sub>2</sub>e calculations will then be utilized to create a CO<sub>2</sub>e evaluation per product category. This will be compared to industry baselines to understand the full impact of the enhanced grassfed organic program. We look forward to sharing our work and experience, while also learning from the other Partnerships funded via the Climate-Smart Commodities Program.

By utilizing existing NRCS programs, and correlating those with soil sample data and the evaluations producers can perform on their own, this program has the potential to be both replicable and affordable for other producers and commodity companies. Our outcomes will contribute to confidence levels of similar projects conducted by our partners who seek to correlate forage/vegetation

quality/quantity to soil carbon, and the diversity of insect DNA samples to ecological health. The analysis of known CO<sub>2</sub>e (COMET, actual soil analysis) as it correlates to visual forage assessment (Pasture Scorecard) and recorded dry matter production (from grazing charts) is an extremely low-cost, easily accomplished, and potentially very useful model moving forward.

## Marketing

In addition to the strength of our farmer relationships and network, this project will significantly benefit from the successes of Maple Hill Creamery in the dairy marketplace. As a differentiated grassfed organic company, our products are segregated throughout the production process. When aggregated, the fluid milk is stored in separate silos ensuring that we can track the climate-smart commodity from our farm network to the store shelf.

We plan to leverage our existing supply chain to grow the focus on climate-smart commodities. We are currently found on shelves at major national retailers throughout the country including Whole Foods, Kroger, Publix, Sprouts, and Walmart, in addition to regional and independent grocers and specialty retailers. As the only major independent grassfed dairy brand, with just a small grassroots marketing budget, we have built a successful brand on shelves in 7,500 stores by demonstrating there is strong consumer demand for grassfed organic products that follow the Maple Hill sustainability ethos, even at premium prices. Today our consumer base supports revenue of \$60 million annually. Our whole milk product is the top-selling branded whole milk SKU at Whole Foods. This interest is growing and expanding beyond the natural channel into national retailers like Kroger and Walmart. Advertising the climate-smart benefits of our products can further spark interest in regenerative commodities.

To grow the interest, we have developed a multi-faceted marketing campaign to expand interest in climate-smart dairy products. We will build upon our existing marketing theme that centers on grassfed organic being “better for the customer, better for the environment, better for the farmer, and better for the cow.” Our first step will be to update all of our branding materials, including our website, packaging, advertising, and social media to draw attention to climate-smart farming efforts and CO<sub>2</sub> impacts to draw and expand upon consumer desire to support products that are better for the environment. This will grow the brand and, hence, further expand the number of farmers we can purchase grass-fed organic fluid milk from. As seen in our packaging below, we already focus on our commitment to 100% grassfed organic dairy. In the update, we will highlight the work of our farmers to further describe the climate-smart work of our partners as it aligns with our mission and goals as a company. The new packaging will include the CO<sub>2</sub> benefits of Maple Hill products as compared to traditional dairy products.



**Current Maple Hill Creamery Products**

We have budgeted between \$1 and \$1.5 million for marketing on an annual basis as part of this pilot. Our website will be updated, telling the story of this pilot effort and providing resources, information, and GHG emissions data for the company. We would welcome the opportunity to highlight other partnerships as well to our customer base, one that is already primed to support climate-smart commodities.

While the redesign of our marketing materials will expose millions of customers to the benefits of climate-smart grassfed organic dairy, we will continue to grow the market via a robust marketing plan. This plan will include not only target health-conscious customers but those who may not otherwise consider purchasing organic, grassfed, or other premium products. We will also work on in-store rewards and promotions, slotting on shelves at major retailers, and retail education, with the goal of reaching an expanded customer base. We have budgeted \$400,000 per year in matching funds for shopper marketing so that we can reach customers as they are making purchase decisions.

Online advertising will play a significant role in our marketing efforts. We will work with our agency partners to create a social media strategy and work to raise awareness about the environmental importance of climate-smart grassfed dairy products. Advertising will target google, e-commerce platforms, and social media. These campaigns will highlight the climate benefits of the Maple Hill operation, specific farmers in our network, and promote the need for grassfed organic dairy products as a climate-smart solution. Social media engagement will include influencer marketing for target demographics such as health-conscious and eco-conscious customers.

## Producer Benefits & Long-Term Sustainability

As a company started by farmers, we understand the importance of developing partnerships that sustain our small dairy producers, especially when they are practicing environmental best practices. Maple Hill Creamery is proud to have some of the highest premium dairy products on the market and successfully commands a premium price for them. This is because this enables us to pass on a larger economic payment to our farmer network. If successful, we hope to see interest in these products continue to grow and, where feasible, increase the premium paid for our milk.

In addition to the direct monetary benefits of working with Maple Hill on enhanced climate-smart grassfed organic dairy, our producer partners also benefit from a more resilient and productive farming operation. By pasturing and building-in resiliency-focused conservation practices, farmers are reducing their reliance on external feed where market volatility has resulted in significant price increases. Skilled pasturing helps protect our farm partner's bottom line and we know from our experience in assisting them in their transition to grassfed organic, that three to five years of support creates a lasting implementation. Once the improvements in pasture are captured, an increase in forage production will reduce feed costs, improved forage quality will boost cow health and productivity while reducing ailments, and freeing farmers' financial resources for other improvements. The real and tangible intrinsic benefits of climate-smart production will be undeniable to our producers before the completion of the pilot program. They will be compelled to continue on course, just as they have with us thus far.

In addition to the benefits provided to our farm partners, we also have designed our pilot program to be sustainable, scalable, and replicable. Out of our strong focus on farmer technical assistance and network building, our producers form a trusted network committed to working together to promote grassfed organic in the marketplace. They can easily get in touch with their peers, regardless of who buys their milk, learn from each other, and overcome barriers that others might face if they were working alone. Our field services team plays a network engagement role, stewarding and strengthening connections among peers.

Our monitoring and measurement process is designed to build a replicable model via pasture scoring, a process that if needed, could be led by the farmer themselves. Over time, as we identify correlations, we will be able to reduce sampling costs and grow the acres that can be evaluated while still protecting the integrity of the results. Two of our technical partners, Dairy Grazing Apprenticeship and Point Blue Conservation Services are also working on developing reliable correlations to forage quantity/quality and soil carbon/health. If successful, this is a model that other small dairy farmers and operations can replicate and we are willing to share our methodology with those individuals and organizations. We will test this approach by inviting our Early Adopter Farmer Partners to conduct their own assessments in parallel with our data collection team in year four, comparing results.

At our core, Maple Hill Creamery is committed to the long-term success of the grassfed organic dairy market. A large part of that commitment is our commitment to environmental stewardship and our desire to regenerate our landscapes so that our farmers can protect their livelihoods for generations to come. This pilot represents a natural extension of that commitment. With this pilot, we can live out our mission of maximizing the benefits for our farmers, benefits for our land, and benefits for our customers.

## Addressing Additional USDA Questions

1. Will all climate smart agriculture practices implemented through this project meet NRCS practice standards? What is your process for ensuring that implementation of the practices meet NRCS standards?

NRCS practices were the only ones considered as part of the project as described in the table above. Please note that in addition to the practices and verification described above, we also utilize an enhanced Pasture Score as a means of regularly checking farms for compliance and incentivizing further activity.

2. Are you proposing to implement any practices on land that is not currently used for agricultural production?

No

3. Will any practices involve ground disturbance below the plow zone, such as fencing?

No.

4. Please describe any potential project activities that may involve concentrated animal feeding operations (CAFOs)?

Maple Hill Creamery works with small, family-owned dairies in NY and does not believe any of our partner farmers would be classified as CAFOs. The two largest farms we work with have approximately 290 head and 200 head of cows each. Six additional farms have between 100 and 150 head and all other farms are less than 100.

5. Technical assistance is the responsibility of the grant recipient. Please clarify in your proposal who will be providing the technical assistance.

As previously described in our proposal, all technical assistance will be provided by Maple Hill Creamery and the Subawardees identified.

## Attachment – Benchmarks Table

### Quarterly Cumulative Quantitative Targets

[illegible]

## Quarterly Process and Qualitative Milestones

| Year | Quarter | Milestones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2023 | 1       | <ul style="list-style-type: none"> <li>• Enroll pilot set of producers: 10-50 farmers.</li> <li>• Develop data system and data management process</li> <li>• Begin seminars and training session</li> <li>• Develop producer-facing guiding materials</li> <li>• Hire marketing consultant and develop marketing plan</li> </ul>                                                                                                                                                            |
|      | 2       | <ul style="list-style-type: none"> <li>• Continue seminars, pasture walks, and training sessions</li> <li>• Visit farms and begin data collection</li> <li>• Conduct baseline pasture scoring for enrolled producers</li> <li>• Take soil samples</li> <li>• Complete data management platform</li> <li>• Begin development of packaging marketing messages.</li> <li>• Increase search engine marking capability and improve SEO</li> <li>• Begin testing social media campaign</li> </ul> |
|      | 3       | <ul style="list-style-type: none"> <li>• Receive soil sample results</li> <li>• Continue Pasture Walks</li> <li>• Conduct remaining field/pasture /soil data collection</li> <li>• Insect collection set-up</li> <li>• Finalize packaging redesign</li> <li>• Continue social media campaign and SEO</li> </ul>                                                                                                                                                                             |
|      | 4       | <ul style="list-style-type: none"> <li>• Seminars and training events</li> <li>• Enlist next group of producers for enrollment</li> <li>• Continue Training sessions, pasture walks, seminars</li> <li>• Improve producer facing guides, including webinar</li> <li>• Redesign website to integrate climate smart messaging</li> <li>• Continue social media campaign and SEO</li> </ul>                                                                                                    |





|  |   |                                                                                                                                         |
|--|---|-----------------------------------------------------------------------------------------------------------------------------------------|
|  | 4 | <ul style="list-style-type: none"><li>• Aggregate data and develop messaging</li><li>• Continue social media campaign and SEO</li></ul> |
|--|---|-----------------------------------------------------------------------------------------------------------------------------------------|

**Climate-Smart Practices and Limitations**

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

| <b>NRCS Practice Code<br/>(if applicable)</b> | <b>Practice Name</b>                         |
|-----------------------------------------------|----------------------------------------------|
| 327                                           | Conservation Cover                           |
| 328                                           | Conservation Crop Rotation                   |
| 329                                           | Residue and Tillage Management No Till       |
| 345                                           | Residue and Tillage Management -Reduced Till |
| 381                                           | Silvopasture                                 |
| 386                                           | Field Border                                 |
| 390                                           | Riparian Herbaceous Cover                    |
| 391                                           | Riparian Forest Buffer                       |
| 484                                           | Mulching                                     |
| 512                                           | Forage and Biomass Planting                  |
| 528                                           | Prescribed Grazing                           |
| 550                                           | Range Planting                               |
| 612                                           | Tree/Shrub Establishment                     |
| 650                                           | Windbreak/Shelterbelt Renovation             |

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

| <b>Practice Name</b> | <b>Alternative Practice Standards</b> |
|----------------------|---------------------------------------|
|                      |                                       |



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

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## Overview of Reporting Requirements

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

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

Descriptions of each level:

**Project level:** Information about activities and impacts at a whole project/aggregate level (i.e., reflecting all activities under the grant agreement). Some project-level reporting is further subdivided by commodity type or a combination of commodity and CSAF practice(s) (commodity x practice).

**Partner level:** Information about activities related to a single organization (recipient, subrecipient, contractor, or other partner) within a project.

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

**Field level:** Information about individual fields enrolled in a project.

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

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



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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.

Table 1. Project Summary elements

| 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 (CO <sub>2</sub> e) emission reductions        | Quarterly |
| Cumulative carbon stock             | Whole project estimate of total carbon sequestration                               | Quarterly |
| Cumulative CO <sub>2</sub> benefit  | Whole project estimate of total CO <sub>2</sub> emission reductions                | Quarterly |
| Cumulative CH <sub>4</sub> benefit  | Whole project estimate of total CH <sub>4</sub> emission reductions                | Quarterly |
| Cumulative N <sub>2</sub> O benefit | Whole project estimate of total N <sub>2</sub> O 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 |

**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.

Table 2. Partner Activities elements

| <b>Data element name</b> | <b>Description</b>                                                                               | <b>Frequency</b> |
|--------------------------|--------------------------------------------------------------------------------------------------|------------------|
| 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        |



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**Marketing Activities**

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.

Table 3. Marketing Activities elements

| <b>Data element name</b>                | <b>Description</b>                                    | <b>Frequency</b> |
|-----------------------------------------|-------------------------------------------------------|------------------|
| 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        |



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**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.

Table 4. Producer Enrollment elements

| <b>Data element name</b>  | <b>Description</b>                                                               | <b>Frequency</b> |
|---------------------------|----------------------------------------------------------------------------------|------------------|
| 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           |

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.

Table 5. Field Enrollment elements

| <b>Data element name</b>             | <b>Description</b>                                                             |
|--------------------------------------|--------------------------------------------------------------------------------|
| 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.

Table 6. Farm Summary elements

| <b>Data element name</b>  | <b>Description</b>                                                           | <b>Frequency</b> |
|---------------------------|------------------------------------------------------------------------------|------------------|
| 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        |

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.

Table 7. Field Summary 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 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 CO <sub>2</sub> ER  | Official estimate of total CO <sub>2</sub> emission reductions for field                     | Quarterly |
| Field official CH <sub>4</sub> ER  | Official estimate of total CH <sub>4</sub> emission reductions for field                     | Quarterly |
| Field official N <sub>2</sub> O ER | Official estimate of total N <sub>2</sub> O 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 |

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.

Table 8. GHG Benefits – Alternate Modeled 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 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    |



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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.

Table 9. GHG Benefits - Measured data 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                           |           |
| GHG measurement method               | Method of measurement                 | Annual    |
| Lab name                             | Entity that conducted analysis        | Annual    |
| Measurement start date               | Start date of measurements            | Annual    |
| Measurement end date                 | End date of measurements              | Annual    |
| Total CO2 reduction calculated       | Calculation of total CO2 reduction    | Annual    |
| Total carbon stock change calculated | Calculation of change in carbon stock | Annual    |
| Total CH4 reduction calculated       | Calculation of total CH4 reduction    | Annual    |
| Total N2O reduction calculated       | Calculation of total N2O reduction    | Annual    |
| Soil sample result                   | Numeric result from soil sample       | Annual    |
| Measurement type                     | Type of analysis conducted            | Annual    |

**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

| <b>Data element name</b>     | <b>Description</b>                                             | <b>Frequency</b> |
|------------------------------|----------------------------------------------------------------|------------------|
| 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           |
| Type                         | 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           |



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### 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:
  - GHG models used
  - 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:
  - Additionality
  - Permanence
  - 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



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Project Summary**Commodity type****Data element name:** Commodity type**Reporting question:** What climate-smart commodity types are produced by this project?**Description:** Type of commodity incentivized by the project. These commodities include those for whom farmers are directly receiving incentives or other types of marketing support. See full list of commodity options in Appendix B. List one commodity per row.**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**Reporting question:** Did project activities result in sales this quarter of the commodity(ies) produced by this project?**Description:** Indicator of sales of commodity(ies) related to project activities. If sales are reported, complete the *Marketing Activities* worksheet (Table 3) as part of the quarterly performance report.**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Yes
- No

**Logic:** None – all respond**Required:** Yes**Data collection level:** Project**Data collection frequency:** Quarterly**Farms enrolled****Data element name:** Farms enrolled**Reporting question:** Did the project enroll any producers or fields this quarter?**Description:** Indicator that the project enrolled producers or fields. If enrollment activities occurred this quarter, complete the *Producer Enrollment* and *Field 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:**

- Yes
- No

**Logic:** None – all respond**Required:** Yes**Data collection level:** Project**Data collection frequency:** Quarterly**GHG calculation methods****Data element name:** GHG calculation methods**Reporting question:** What methods is the project using to calculate GHG benefits?**Description:** List the way(s) that GHG benefits are being measured and calculated by the project this quarter.**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Models
- Direct field measurements
- Both

**Logic:** None – all respond**Required:** Yes**Data collection level:** Project**Data collection frequency:** Quarterly

**GHG cumulative calculation****Data element name:** GHG cumulative calculation**Description:** List the method(s) that was used to calculate the total cumulative GHG benefits reported by the project this quarter.**Data type:** List**Measurement unit:** Category**Logic:** None – all respond**Data collection level:** Project**Reporting question:** What method(s) was used to calculate the total cumulative GHG benefits reported here?**Select multiple values:** No**Allowed values:**

- Models
- Direct field measurements
- Both

**Required:** Yes**Data collection frequency:** Quarterly**Cumulative GHG benefits****Data element name:** Cumulative GHG benefits**Description:** Total cumulative estimated greenhouse gas emission reductions from practice implementation. This is updated quarterly. If there are no changes, enter the same number as the previous quarter.**Data type:** Decimal**Measurement unit:** Metric tons CO<sub>2</sub>eq**Logic:** None – all respond**Data collection level:** Project**Reporting question:** What are the project's estimated total GHG emission reductions (CO<sub>2</sub>eq) to date?**Select multiple values:** No**Allowed values:** 0-10,000,000**Required:** Yes**Data collection frequency:** Quarterly**Cumulative carbon stock****Data element name:** Cumulative carbon stock**Description:** Estimated total cumulative change in carbon stock based on practice implementation. This is updated quarterly. If there are no changes, 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**Measurement unit:** Metric tons CO<sub>2</sub>eq**Logic:** None – all respond**Data collection level:** Project**Reporting question:** How much carbon has the project sequestered to date?**Select multiple values:** No**Allowed values:** 0-10,000,000**Required:** Yes**Data collection frequency:** Quarterly**Cumulative CO<sub>2</sub> benefit****Data element name:** Cumulative CO<sub>2</sub> benefit**Description:** Estimated total cumulative carbon dioxide emission reductions based on practice implementation. This is updated quarterly. If there are no changes, enter the same number as the previous quarter.**Data type:** Decimal**Measurement unit:** Metric tons CO<sub>2</sub>**Logic:** None – all respond**Data collection level:** Project**Reporting question:** What are the project's estimated total cumulative CO<sub>2</sub> emission reductions to date?**Select multiple values:** No**Allowed values:** 0-10,000,000**Required:** Yes**Data collection frequency:** Quarterly**Cumulative CH<sub>4</sub> benefit****Data element name:** Cumulative CH<sub>4</sub> benefit**Description:** Estimated total cumulative methane reduction based on practice implementation. This is updated quarterly. If there are no changes, enter the same numbers as the previous quarter. Conversion rate is one ton of CH<sub>4</sub> = 25 tons of CO<sub>2</sub>eq.**Data type:** Decimal**Measurement unit:** Metric tons CH<sub>4</sub> reduced in CO<sub>2</sub>eq**Logic:** None – all respond**Data collection level:** Project**Reporting question:** What are the project's estimated total CH<sub>4</sub> emission reductions to date?**Select multiple values:** No**Allowed values:** 0-10,000,000**Required:** Yes**Data collection frequency:** Quarterly

**Cumulative N2O benefit**

**Data element name:** Cumulative N2O benefit **Reporting question:** What are the project's estimated total N2O emission reductions to date?

**Description:** Estimated total cumulative nitrous oxide reduction based on practice implementation. This is updated quarterly. If there are no updated numbers enter the same number as the previous quarter. Conversion rate is one ton of N<sub>2</sub>O = 298 tons of CO<sub>2</sub>eq.

**Data type:** Decimal **Select multiple values:** No

**Measurement unit:** Metric tons N2O reduced in CO<sub>2</sub>eq **Allowed values:** 0-10,000,000

**Logic:** None – all respond **Required:** Yes

**Data collection level:** Project **Data collection frequency:** Quarterly

**Offsets produced**

**Data element name:** Offsets produced **Reporting question:** How many carbon offsets have been produced in the project?

**Description:** Total carbon offsets produced by enrolled project fields during the quarter. Offsets are defined as having been verified and certified using an accepted standard and sold into the carbon marketplace.

**Data type:** Decimal **Select multiple values:** No

**Measurement unit:** Metric tons CO<sub>2</sub>eq **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?

**Description:** Marketplaces to which carbon offsets produced by enrolled project fields were sold. Offsets are defined as having been verified and certified using an accepted standard and sold into the carbon marketplace. List each marketplace name. Separate names with commas.

**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 **Reporting question:** What was the average price of carbon received for offsets?

**Description:** Average price per metric ton paid for carbon offsets produced by enrolled project fields. Offsets are defined as having been verified and certified 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?

**Description:** Total carbon insets produced by enrolled fields during the quarter. Insets are defined as having been verified and certified using an accepted standard and accounted for within Scope 3 emissions for a firm.

**Data type:** Decimal **Select multiple values:** No

**Measurement unit:** Metric tons CO<sub>2</sub>eq **Allowed values:** 0-10,000,000

**Logic:** None – all respond **Required:** Yes

**Data collection level:** Project **Data collection frequency:** Quarterly

**Cost of on-farm TA****Data element name:** Cost of on-farm TA**Reporting question:** What is the total amount that has been spent to provide on-farm TA?**Description:** Total cost of any field- or practice-specific technical assistance provided by the project (by recipient or partners) to any producers. This is updated quarterly. If there are no changes, enter the same number as the previous quarter.**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**Reporting question:** What is the total amount that has been spent on MMRV activities?**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.**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**GHG monitoring method****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**Measurement unit:** Category**Allowed values:**

- 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



February 2023

**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 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



February 2023

Partner Activities**Unique IDs**

|            |                                    |
|------------|------------------------------------|
| Partner ID | Unique Project ID for each partner |
|------------|------------------------------------|

**Partner name**

|                                                        |                                                                                                |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>Data element name:</b> Name of partner organization | <b>Reporting question:</b> What is the official name of the recipient or partner organization? |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------|

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| <b>Description:</b> Legal name of recipient or partner organization |
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|                        |
|------------------------|
| <b>Data type:</b> Text |
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| <b>Select multiple values:</b> NA |
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| <b>Measurement unit:</b> NA |
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| <b>Allowed values:</b> Text |
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| <b>Logic:</b> None – all respond |
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|----------------------|
| <b>Required:</b> Yes |
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| <b>Data collection level:</b> Partner |
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|----------------------------------------------------------|
| <b>Data collection frequency:</b> Partnership initiation |
|----------------------------------------------------------|

**Partner type**

|                                                        |                                                               |
|--------------------------------------------------------|---------------------------------------------------------------|
| <b>Data element name:</b> Type of partner organization | <b>Reporting question:</b> What type of organization is this? |
|--------------------------------------------------------|---------------------------------------------------------------|

|                                                                                    |
|------------------------------------------------------------------------------------|
| <b>Description:</b> Legal/financial structure of recipient or partner organization |
|------------------------------------------------------------------------------------|

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| <b>Data type:</b> List |
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| <b>Select multiple values:</b> No |
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| <b>Measurement unit:</b> Category |
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|------------------------|
| <b>Allowed values:</b> |
|------------------------|

- Commodity groups (501c5)
- For-profit
- Individual
- Nonprofit
- State or local agency
- Tribal agency
- University

|                                  |
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| <b>Logic:</b> None – all respond |
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| <b>Required:</b> Yes |
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| <b>Data collection level:</b> Partner |
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|----------------------------------------------------------|
| <b>Data collection frequency:</b> Partnership initiation |
|----------------------------------------------------------|

**Partner POC**

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| <b>Data element name:</b> 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 recipient or partner organization |
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|                        |
|------------------------|
| <b>Data type:</b> Text |
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| <b>Select multiple values:</b> NA |
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| <b>Measurement unit:</b> NA |
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| <b>Allowed values:</b> Text |
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| <b>Logic:</b> None – all respond |
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| <b>Required:</b> Yes |
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| <b>Data collection level:</b> Partner |
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|-------------------------------------------------------------------------------|
| <b>Data collection frequency:</b> Partnership initiation; update as necessary |
|-------------------------------------------------------------------------------|

**Partner POC email**

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|---------------------------------------------|--------------------------------------------------------------------------|
| <b>Data element name:</b> Partner POC email | <b>Reporting question:</b> What is the point of contact's email address? |
|---------------------------------------------|--------------------------------------------------------------------------|

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|---------------------------------------------------------------------------------------------|
| <b>Description:</b> Email of the point of contact for the recipient or partner organization |
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| <b>Data type:</b> Text |
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| <b>Select multiple values:</b> NA |
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| <b>Measurement unit:</b> NA |
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| <b>Allowed values:</b> Text |
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| <b>Logic:</b> None – all respond |
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|                      |
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| <b>Required:</b> Yes |
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| <b>Data collection level:</b> Partner |
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|-------------------------------------------------------------------------------|
| <b>Data collection frequency:</b> Partnership initiation; update as necessary |
|-------------------------------------------------------------------------------|



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**Partnership start date**

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|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <b>Data element name:</b> Partnership start date                                                                  | <b>Reporting question:</b> When did the partnership start? |
| <b>Description:</b> Date that the partner organization and the recipient began formally partnering on the project |                                                            |
| <b>Data type:</b> Date                                                                                            | <b>Select multiple values:</b> NA                          |
| <b>Measurement unit:</b> MM/DD/YYYY                                                                               | <b>Allowed values:</b> 01/01/2023 – 12/31/2030             |
| <b>Logic:</b> No response for recipient                                                                           | <b>Required:</b> Yes                                       |
| <b>Data collection level:</b> Partner                                                                             | <b>Data collection frequency:</b> Partnership initiation   |

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**Partnership end date**

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|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| <b>Data element name:</b> Partnership end date                                                                      | <b>Reporting question:</b> When did the partnership end?  |
| <b>Description:</b> Date that the partner organization and the recipient stopped formally partnering on the project |                                                           |
| <b>Data type:</b> Date                                                                                              | <b>Select multiple values:</b> NA                         |
| <b>Measurement unit:</b> MM/DD/YYYY                                                                                 | <b>Allowed values:</b> 01/01/2023 – 12/31/2030            |
| <b>Logic:</b> No response for recipient                                                                             | <b>Required:</b> Yes                                      |
| <b>Data collection level:</b> Partner                                                                               | <b>Data collection frequency:</b> Partnership end quarter |

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**New partnership**

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <b>Data element name:</b> New partnership                                                                                                                                                                | <b>Reporting question:</b> Is this a new partnership?                                                            |
| <b>Description:</b> A new partnership means that the recipient and the partner organization have not had a formal working relationship (under contract or on a grant) prior to the start of the project. |                                                                                                                  |
| <b>Data type:</b> List                                                                                                                                                                                   | <b>Select multiple values:</b> No                                                                                |
| <b>Measurement unit:</b> Category                                                                                                                                                                        | <b>Allowed values:</b> <ul style="list-style-type: none"><li>• Yes</li><li>• No</li><li>• I don't know</li></ul> |
| <b>Logic:</b> No response for recipient                                                                                                                                                                  | <b>Required:</b> Yes                                                                                             |
| <b>Data collection level:</b> Partner                                                                                                                                                                    | <b>Data collection frequency:</b> Partnership initiation                                                         |

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**Partner total requested**

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| <b>Data element name:</b> Partner total requested                                                                                                                                                                                                                                                                                                                                                                    | <b>Reporting question:</b> What is the total amount of funding the partner has requested to date from this project? |
| <b>Description:</b> Cumulative (total) amount of funds that the partner has requested reimbursement for from the recipient from the start of the partnership to the end of the reporting quarter. For each quarter's data entry, the value must be the sum of all previous entries plus the amount of funds requested in the reporting quarter. If there are no changes, report the value from the previous quarter. |                                                                                                                     |
| <b>Data type:</b> Decimal                                                                                                                                                                                                                                                                                                                                                                                            | <b>Select multiple values:</b> NA                                                                                   |
| <b>Measurement unit:</b> Dollars                                                                                                                                                                                                                                                                                                                                                                                     | <b>Allowed values:</b> \$0-\$100,000,000                                                                            |
| <b>Logic:</b> No response for recipient                                                                                                                                                                                                                                                                                                                                                                              | <b>Required:</b> Yes                                                                                                |
| <b>Data collection level:</b> Partner                                                                                                                                                                                                                                                                                                                                                                                | <b>Data collection frequency:</b> Quarterly                                                                         |

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**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?

**Description:** Cumulative (total) value of funds and in-kind contributions (e.g., staff time, inputs, equipment rental, marketing support) that the partner has provided as a project match contribution from the start of the partnership to the end of the reporting quarter. For each quarter's data entry, the value must be the sum of all previous entries plus match contributions in the reporting quarter. If there are no changes, report the 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**Total match incentives****Data element name:** Total match incentives**Reporting question:** What is the total value of match provided by this organization for producer incentives?

**Description:** Cumulative (total) value of funds for incentive payments directly to producers that the partner has provided as a project match contribution from the start of the partnership to the end of the reporting quarter. For each quarter's data entry, the value must be the sum of all previous entries plus match incentives in the reporting quarter. If there are no changes, report the 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**Reporting question:** What types of match contributions has the organization provided to the project?

**Description:** Types of match contributions *other than incentives* provided directly to producers by the organization from the start of the partnership to the end of the reporting quarter. Enter up to the top three (in dollar value) types of match contributions provided. In-kind staff time could be used for technical assistance, marketing assistance, or other support to producers. Production inputs include seed, fertilizer, pesticides, equipment and other inputs for use in the field. The worksheet provides three columns with a drop-down list of the allowed values. Choose one value for each column. If fewer than 3 match types are used, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other match types as free text.

**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Equipment rental or use
- In-kind staff time
- Production inputs (reduced cost or free)
- Program income
- Software
- Other (specify)

**Logic:** None – all respond**Required:** Yes**Data collection level:** Partner**Data collection frequency:** Quarterly



February 2023

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**Match amount**

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**Data element name:** Match amount 1-3**Reporting question:** What is the value of the match contributions the organization provided to the project?

**Description:** Cumulative (total) value of funds for each match type that the organization has provided as a project match contribution from the start of the partnership to the end of the reporting quarter. Enter amounts for up to the top three (in dollar value) match types. The worksheet provides three columns for this data element. Enter one value for each column. If fewer 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**Logic:** None – all respond**Required:** Yes**Data collection level:** Partner**Data collection frequency:** Quarterly

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**Training type provided**

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**Data element name:** Training type 1-3 provided**Reporting question:** What types of training has the organization provided to project partners?

**Description:** Types of training provided to the project partner as a result of participating in the project during the past quarter. Training can come from the recipient, a project partner organization (including other divisions of their own organization, or an outside organization. Enter up to the top three (in dollar value) types of partner training provided. The worksheet provides three columns with a drop-down list of the allowed values. Choose one value for each column. If fewer than 3 training types are used, leave unnecessary columns blank. If “other” is chosen, use the additional column to enter other training types as free text.

**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Data collection
- Grant reporting
- Marketing opportunities
- Providing financial assistance
- Providing technical assistance
- Writing producer contracts
- Other (specify)

**Logic:** None – all respond**Required:** Yes**Data collection level:** Partner**Data collection frequency:** Quarterly

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**Activity by partner**

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**Data element name:** Activity 1-3 by partner**Reporting question:** What types of activities has the organization provided to the project?

**Description:** Types of activities that the recipient or partner organization has provided during the reporting quarter. Enter up to the top three (in dollar value) types of activities undertaken. The worksheet provides three columns with a drop-down list of the allowed values. Choose one value for each column. If fewer than 3 activity types are used, leave unnecessary columns blank. If “other” is chosen, use the additional column to enter other activity types as free text.

**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Marketing support
- MMRV support
- Producer outreach for enrollment
- Technical assistance to producers
- Training to other partner organizations
- Other (specify)

**Logic:** None – all respond**Required:** Yes**Data collection level:** Partner**Data collection frequency:** Quarterly

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**Activity cost****Data element name:** Activity cost 1-3**Reporting question:** What is the value of the activities this organization has provided to the project?

**Description:** Cumulative (total) cost of each activity type that the organization has undertaken or offered from the start of the partnership to the end of the reporting quarter. Enter amounts for up to the top three (in dollar value) activity types. The worksheet provides three columns for this data element. Enter one value for each column. If fewer than 3 activity types are provided, leave unnecessary columns blank.

**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

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**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 producers 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 column 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

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**Product source****Data element name:** Product source**Reporting question:** Which companies provided the supplies?

**Description:** Name of firm or company from which supplies 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

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February 2023

Marketing Activities**Commodity type**

|                                                                                                                                                                                                                                                                                                             |                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Data element name:</b> Commodity type                                                                                                                                                                                                                                                                    | <b>Reporting question:</b> What type of commodity is produced by the farmers enrolled in this project? |
| <b>Description:</b> List a single commodity produced 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. |                                                                                                        |
| <b>Data type:</b> List                                                                                                                                                                                                                                                                                      | <b>Select multiple values:</b> No                                                                      |
| <b>Measurement unit:</b> Category                                                                                                                                                                                                                                                                           | <b>Allowed values:</b> FSA commodity list                                                              |
| <b>Logic:</b> None – all respond                                                                                                                                                                                                                                                                            | <b>Required:</b> Yes                                                                                   |
| <b>Data collection level:</b> Project                                                                                                                                                                                                                                                                       | <b>Data collection frequency:</b> Quarterly                                                            |

**Marketing channel type**

|                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data element name:</b> Marketing channel type                                                                                                                                                                                                                                                                                                                                                                | <b>Reporting question:</b> What type of marketing channel is used to sell this commodity?                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description:</b> 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. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Data type:</b> List                                                                                                                                                                                                                                                                                                                                                                                          | <b>Select multiple values:</b> No                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Measurement unit:</b> Category                                                                                                                                                                                                                                                                                                                                                                               | <b>Allowed values:</b> <ul style="list-style-type: none"> <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> <li>• Other (specify)</li> </ul> |
| <b>Logic:</b> None – all respond                                                                                                                                                                                                                                                                                                                                                                                | <b>Required:</b> Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Data collection level:</b> Project                                                                                                                                                                                                                                                                                                                                                                           | <b>Data collection frequency:</b> Quarterly                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**Number of buyers**

|                                                                                              |                                                                                 |
|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>Data element name:</b> Number of buyers                                                   | <b>Reporting question:</b> How many buyers are there in this marketing channel? |
| <b>Description:</b> List the number of individual firms or buyers in this marketing channel. |                                                                                 |
| <b>Data type:</b> Integer                                                                    | <b>Select multiple values:</b> No                                               |
| <b>Measurement unit:</b> Count                                                               | <b>Allowed values:</b> 1-500                                                    |
| <b>Logic:</b> None – all respond                                                             | <b>Required:</b> Yes                                                            |
| <b>Data collection level:</b> Project                                                        | <b>Data collection frequency:</b> Quarterly                                     |

**Names of buyers**

|                                                                                                                 |                                                                                               |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Data element name:</b> Names of buyers                                                                       | <b>Reporting question:</b> What are the names of all of the buyers in this marketing channel? |
| <b>Description:</b> Provide the names of all buyers in this marketing channel. Separate each name with a comma. |                                                                                               |
| <b>Data type:</b> Text                                                                                          | <b>Select multiple values:</b> NA                                                             |
| <b>Measurement unit:</b> Name                                                                                   | <b>Allowed values:</b> Text                                                                   |
| <b>Logic:</b> None – all respond                                                                                | <b>Required:</b> Yes                                                                          |
| <b>Data collection level:</b> Project                                                                           | <b>Data collection frequency:</b> Quarterly                                                   |

**Marketing channel geography**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data element name:</b> Marketing channel geography                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Reporting question:</b> What is the primary geography of the marketing channel?                                                         |
| <b>Description:</b> The primary geography of the type of marketing channel. Primary geography means the scale at which most of the activity of buying and selling happens. Local means within a single state or directly neighboring states. Regional means within a five-to-ten state area. National means across the United States. International means specific locations outside of the United States. Global means across the world or not to a specific international location. |                                                                                                                                            |
| <b>Data type:</b> List                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Select multiple values:</b> No                                                                                                          |
| <b>Measurement unit:</b> Category                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Allowed values:</b> <ul style="list-style-type: none"> <li>• Local</li> <li>• Regional</li> <li>• National</li> <li>• Global</li> </ul> |
| <b>Logic:</b> None – all respond                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Required:</b> Yes                                                                                                                       |
| <b>Data collection level:</b> Project                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Data collection frequency:</b> Quarterly                                                                                                |

**Value sold**

|                                                                                                                     |                                                                                               |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Data element name:</b> Value sold                                                                                | <b>Reporting question:</b> What is the value of the commodity sold in this marketing channel? |
| <b>Description:</b> The dollar value of the commodity sold in this marketing channel this quarter (non-cumulative). |                                                                                               |
| <b>Data type:</b> Decimal                                                                                           | <b>Select multiple values:</b> No                                                             |
| <b>Measurement unit:</b> Dollars                                                                                    | <b>Allowed values:</b> \$1-\$100,000,000                                                      |
| <b>Logic:</b> None – all respond                                                                                    | <b>Required:</b> Yes                                                                          |
| <b>Data collection level:</b> Project                                                                               | <b>Data collection frequency:</b> Quarterly                                                   |

**Volume sold**

|                                                                                                               |                                                                                                |
|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>Data element name:</b> Volume sold                                                                         | <b>Reporting question:</b> What is the volume of the commodity sold in this marketing channel? |
| <b>Description:</b> The volume of the commodity sold in this marketing channel this quarter (non-cumulative). |                                                                                                |
| <b>Data type:</b> Decimal                                                                                     | <b>Select multiple values:</b> No                                                              |
| <b>Measurement unit:</b> Number                                                                               | <b>Allowed values:</b> 1-100,000,000                                                           |
| <b>Logic:</b> None – all respond                                                                              | <b>Required:</b> Yes                                                                           |
| <b>Data collection level:</b> Project                                                                         | <b>Data collection frequency:</b> Quarterly                                                    |



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**Volume sold unit****Data element name:** Volume sold unit**Reporting question:** What is the unit of volume?**Description:** The unit associated with the volume of the commodity sold in the marketing channel. If “other” is chosen, use the additional column to enter the appropriate unit as free text.**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- 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 the commodity sold in this marketing channel this quarter. Price premium is the amount received above a ‘business as usual’ price.**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

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**Price premium unit****Data element name:** Price premium unit**Reporting question:** What is the unit for the price premium?**Description:** The unit associated with the price premium for the commodity sold in the marketing channel. If “other” is chosen, use the additional column to enter the appropriate unit as free text.**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Per bale (500 pounds)
- Per bushel
- Per carcass pound
- Per gallon
- Per kilogram
- Per linear board foot
- Per live pound
- Per metric ton
- Per ounce
- Per short ton
- Other (specify)

**Logic:** None – all respond**Required:** Yes**Data collection level:** Project**Data collection frequency:** Quarterly

---

**Price premium to producer****Data element name:** Price premium to producer**Reporting question:** What percent of the price premium is provided to the producer for the commodity sold in this marketing channel?**Description:** The percent of the price premium provided to the producer for the commodity sold in this marketing channel this quarter. Price premium 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**Product differentiation method****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**Allowed values:**

- Certification/verification for internal insetting
- Farm certification
- Label or badge used on packaging or marketing
- Third party certification/verification
- Trademark
- Other (specify)

**Logic:** None – all respond**Required:** Yes**Data collection level:** Project**Data collection frequency:** Quarterly**Marketing 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:**

- Label or badge used on packaging or marketing materials
- Marketing partnership (e.g., promotion by buyer)
- Print marketing campaign
- Social media and digital marketing campaign
- Verbal marketing campaign (e.g., radio, word of mouth)
- Other (specify)

**Logic:** None – all respond**Required:** Yes**Data collection level:** Project**Data collection frequency:** Quarterly



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**Marketing channel identification method**

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**Data element name:** Marketing channel identification method 1-3**Reporting question:** What methods are used to generate 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:**

- Educational tours for buyers
- In-person lead generation
- Negotiated contracts with buyers
- Partnership network or project partner
- Other (specify)

**Logic:** None – all respond**Required:** Yes**Data collection level:** Project**Data collection frequency:** Quarterly

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**Traceability method**

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**Data element name:** Traceability method 1-3**Reporting question:** What traceability methods are used for 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**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)

**Logic:** None – all respond**Required:** Yes**Data collection level:** Project**Data collection frequency:** Quarterly

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Producer Enrollment**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 data change****Data element name:** Producer data change**Reporting question:** Is there new/updated information for a producer who is re-enrolling in the project?**Description:** Indicates that there is new or updated information for a producer who had previously enrolled in the project and is re-enrolling.**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****Data element name:** Producer start date**Reporting question:** When did the producer enroll in the project?**Description:** Date that the producer enrolled in the 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 name**Reporting question:** What is the name of producer enrolled in the project?**Description:** Name of the producer enrolled in the project; the name must match the name contained in the customer's Business Partner record and the Farm 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

**Underserved status****Data element name:** Underserved status**Reporting question:** Is this producer considered an underserved and/or a small producer?

**Description:** Underserved status of the primary operator of the enrolled operation. Underserved producers generally include beginning farmers, socially disadvantaged farmers, veteran farmers, and limited resource farmers; women farmers and producers growing specialty crops are generally also included in these categories. Small farms are generally those with less than \$350,000 in annual gross cash farm income. Indicate whether this producer is considered underserved, a small producer, or both underserved and a small producer. Use "I don't know" if the producer declines to answer. 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.

**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Yes, underserved
- Yes, small producer
- Yes, underserved and small producer
- No
- I don't know

**Logic:** None – all respond**Required:** No**Data collection level:** Producer**Data collection frequency:** Initial enrollment**Total area****Data element name:** Total area**Reporting question:** What is the total area of the farm?

**Description:** Total area of the farm associated with the Farm ID. Report total area of the farm, even if only a portion of the farm is enrolled in the project. If a producer is enrolled in the project for multiple years, review the total area each time a new contract is signed and provide any necessary updates.

**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Less than 1 acre
- 1 to 9 acres
- 10 to 49 acres
- 50 to 69 acres
- 70 to 99 acres
- 100 to 139 acres
- 140 to 179 acres
- 180 to 219 acres
- 220 to 259 acres
- 260 to 499 acres
- 500 to 999 acres
- 1,000 to 1,999 acres
- 2,000 to 4,999 acres
- 5,000 or more acres

**Logic:** None – all respond**Required:** Yes**Data collection level:** Producer**Data collection frequency:** Initial enrollment and subsequent enrollment(s), if applicable



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**Total crop area**

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**Data element name:** Total crop area      **Reporting question:** What percent of the current operation is cropland?

**Description:** Area of the total farm that is currently used as cropland. If a producer is enrolled in the project for multiple years, review the total crop area each time a new contract is signed and provide any necessary updates.

**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

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**Total livestock area**

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**Data element name:** Total livestock area      **Reporting question:** What amount of the current operation is used for livestock (by area)?

**Description:** Area of the total farm that is currently used for pasture, grazing, rangeland; or animal housing, feeding or milking. If a producer is enrolled in the project for multiple years, review the total livestock area each time a new contract is signed and provide any necessary updates.

**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

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**Total forest area**

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**Data element name:** Total forest area      **Reporting question:** What amount of the current operation is forested (by area)?

**Description:** Area of the total farm that is currently considered forest land use. Forest land use means that at least 10% of the land area is covered in trees that will be at least 13 feet tall when mature. If a producer is enrolled in the project for multiple years, review the total forest area each time a new contract is signed and provide any necessary updates.

**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

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**Livestock type****Data element name:** Livestock type 1-3**Reporting question:** What types of livestock are raised on the farm?

**Description:** Up to top three types of livestock (by head count) on the farm. 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 livestock types, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other livestock types as free text. If a producer is enrolled in the project for multiple years, review the livestock type each time a new contract is signed and provide 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**Livestock head****Data element name:** Livestock head 1-3**Reporting question:** How many livestock (by type) are 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 farm****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**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**Reporting question:** Are any of the fields enrolled in the project currently USDA-certified organic or transitioning to USDA-certified organic?

**Description:** USDA-certified organic means that the operation 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 fields enrolled in the project are certified organic or transitioning to certified organic. No means that no part of the fields enrolled in the project are 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 enrolled fields each time a new contract is signed and provide any necessary updates.

**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Yes
- No
- I don't know

**Logic:** Respond if yes to 'Organic operation'**Required:** No**Data collection level:** Producer**Data collection frequency:** Initial enrollment and subsequent enrollment(s), if applicable**Producer motivation****Data element name:** Producer motivation**Reporting question:** Which of the following was the primary reason the producer enrolled in this project?**Description:** Primary operator's motivation for enrolling in the project.**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Financial benefit
- Environmental benefit
- New market opportunity
- Partnerships or networks
- Other

**Logic:** None – all respond**Required:** Yes**Data collection level:** Producer**Data collection frequency:** Initial enrollment



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**Producer outreach****Data element name:** Producer outreach 1-3**Reporting question:** What types of outreach were provided to producers?

**Description:** Up to three most common types of outreach provided to producer prior to enrollment. Outreach activities are those focused on identifying and enrolling producers in the project. Outreach can come from the recipient or project partners. 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 outreach types, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other outreach types as free text.

**Data type:** List**Select multiple values:** Yes**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
- Peer referrals and producer groups
- Phone calls
- Print communications and resources
- Retailers
- State agencies
- Targeted messaging using proprietary data
- Technical service providers
- Other (specify)

**Logic:** None – all respond**Required:** Yes**Data collection level:** Producer**Data collection frequency:** Initial enrollment**CSAF experience****Data element name:** CSAF experience**Reporting question:** Has the primary operator implemented CSAF practices in the last ten years anywhere on the farm?

**Description:** Has this farm implemented climate-smart agriculture or forestry (CSAF) practices anywhere on the farm in the past 10 years or since the current primary operator took control (whichever time period is shorter)? CSAF practices are included in a list in Appendix A.

**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:** Producer**Data collection frequency:** Initial enrollment



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**CSAF federal funds**

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**Data element name:** CSAF federal funds**Reporting question:** Were prior CSAF practices supported by federal funds?

**Description:** If this farm (under the primary operator) has implemented CSAF practices in the last ten years, was implementation supported by federal funds? Federal funds are defined as being from programs including, but not limited to, those from the Natural Resources Conservation Service (NRCS), including through Environmental Quality Incentives Program (EQIP), Conservation Stewardship Program (CSP), Regional Conservation Partnership Program (RCPP), or related programs), the Farm Service Agency Conservation Reserve Program (CRP), as well as funds from other USDA programs or other federal agencies.

**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Yes
- No
- I don't know

**Logic:** Respond if yes to 'CSAF experience'**Required:** Yes**Data collection level:** Producer**Data collection frequency:** Initial enrollment

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**CSAF state or local funds**

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**Data element name:** CSAF state or local funds**Reporting question:** Were prior CSAF practices supported by state or local funds?

**Description:** If this farm (under the primary operator) has implemented CSAF practices in the last ten years, was implementation supported by state funds? State or local funds are those from state departments of agriculture or other state agencies, local water quality districts and other local agencies.

**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Yes
- No
- I don't know

**Logic:** Respond if yes to 'CSAF experience'**Required:** Yes**Data collection level:** Producer**Data collection frequency:** Initial enrollment

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**CSAF nonprofit funds**

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**Data element name:** CSAF nonprofit funds**Reporting question:** Were CSAF practices supported by nonprofit funds?

**Description:** If this farm (under the primary operator) has implemented CSAF practices in the last ten years, was implementation supported by nonprofit funds? Nonprofit funds are those offered directly from a nonprofit organization to a producer.

**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Yes
- No
- I don't know

**Logic:** Respond if yes to 'CSAF experience'**Required:** Yes**Data collection level:** Producer**Data collection frequency:** Initial enrollment

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**CSAF market incentives**

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**Data element name:** CSAF market incentives      **Reporting question:** Were CSAF practices supported by market incentives?

**Description:** If this farm (under the primary operator) has implemented CSAF practices in the last ten years, was implementation supported by market incentives? Market incentives include premiums paid by a commodity buyer or by a consumer based on branding or labeling as a climate-smart commodity.

**Data type:** List

**Select multiple values:** No

**Measurement unit:** Category

**Allowed values:**

- Yes
- No
- I don't know

**Logic:** Respond if yes to 'CSAF experience'

**Required:** Yes

**Data collection level:** Producer

**Data collection frequency:** Initial enrollment

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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 change**Reporting question:** Has the information previously reported for this field changed?**Description:** Indicator that this entry is being used to report any relevant changes, such as a new Field ID number or changes to the commodity or practice combinations, for a field that has previously been enrolled in the project.**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 start date**Reporting question:** What is the start date of the contract with the producer that includes this field?**Description:** Start date listed on the contract that enrolls the field in the project.**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:** Field**Data collection frequency:** Initial enrollment**Total field area****Data element name:** Total field area**Reporting question:** What is the total size of the enrolled field?**Description:** Total size of the field enrolled with the project.**Data type:** Decimal**Select multiple values:** No**Measurement unit:** Acres**Allowed values:** .01-500**Logic:** None – all respond**Required:** Yes**Data collection level:** Field**Data collection frequency:** Initial enrollment



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**Commodity category**

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**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 field enrolled in the project**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Crops
- Livestock
- Trees
- Crops and livestock
- Crops and trees
- Livestock and trees
- Crops, livestock and trees

**Logic:** None – all respond**Required:** Yes**Data collection level:** Field**Data collection frequency:** Initial enrollment

---

**Commodity type**

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**Data element name:** Commodity type**Reporting question:** What type of commodity is produced from this field?**Description:** Type of commodity produced in field enrolled in the project. See full list in Appendix B. The worksheet provides a drop-down list of the allowed values. Choose the appropriate value. Enter additional commodities in subsequent rows.**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:** Initial enrollment

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**Baseline yield**

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**Data element name:** Baseline yield**Reporting question:** What is the baseline yield of this field?**Description:** Average annual yield of commodity in 3 years prior to enrollment. Provide yield for the enrolled field if possible. If not at field level, provide average annual yield for the specific commodity for the operation.**Data type:** Decimal**Select multiple values:** No**Measurement unit:** Production per acre or animal**Allowed values:** .01-100,000**Logic:** None – all respond**Required:** Yes**Data collection level:** Field**Data collection frequency:** Initial enrollment

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**Baseline yield unit**

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**Data element name:** Baseline yield unit**Reporting question:** Baseline yield unit

**Description:** Unit of average annual yield of commodity in enrolled field in 3 years prior to enrollment. The worksheet provides a drop-down list of choices for this data element. If "other" is chosen, use the additional column to enter the appropriate yield unit as free text.

**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Animal units per acre
- Bushels per acre
- Carcass pounds per animal
- Head per acre
- Hundred-weights (or pounds) per head
- Linear feet per acre
- Liveweight pounds per animal
- Pounds per acre
- Tons per acre
- Other (specify)

**Required:** Yes**Logic:** None – all respond**Data collection level:** Field**Data collection frequency:** Initial enrollment

---

**Baseline yield location**

---

**Data element name:** Baseline yield location**Reporting question:** For what portion of the operation is the baseline yield being reported?

**Description:** Location of the reported average annual yield of commodity in 3 years prior to enrollment. If "other" is chosen, use the additional column to enter the appropriate location as free text.

**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Enrolled field
- Whole operation
- Other (specify)

**Required:** Yes**Logic:** None – all respond**Data collection level:** Field**Data collection frequency:** Initial enrollment

---

**Field land use**

---

**Data element name:** Field land use**Reporting question:** What is this field's land use history?

**Description:** Prior to enrollment, what was the most common land use for this field in the past 3 years?

**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Crop land
- Forest land
- Non-agriculture
- Other agricultural land
- Pasture
- Range

**Required:** Yes**Logic:** None – all respond**Data collection level:** Field**Data collection frequency:** Initial enrollment

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**Field irrigated****Data element name:** Field irrigated**Reporting question:** What is this field's irrigation history?**Description:** Prior to enrollment, what was 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

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**Field tillage****Data element name:** Field tillage**Reporting question:** What is this field's tillage history?**Description:** Prior to enrollment, what was the most common tillage approach during the past 3 years?**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- None
- Conventional, inversion
- Conventional, vertical
- No-till, direct seed
- Reduced till, inversion
- Reduced till, vertical
- Strip till
- Other

**Logic:** None – all respond**Required:** Yes**Data collection level:** Field**Data collection frequency:** Initial enrollment

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**Practice past extent - farm**

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**Data element name:** Practice past extent - farm**Description:** Prior to enrollment, on what portion of the whole farm had this (these) CSAF practice(s) ever been used by the primary operator? If multiple practices are planned to be implemented in this field, enter the value that best corresponds to the farm's prior experience with the planned set of practices.**Data type:** List**Measurement unit:** Category**Reporting question:** What percent of the farm has implemented this CSAF practice (combination) previously?**Select multiple values:** No**Allowed values:**

- Never used
- Used on less than 25% of operation
- Used on 25-50% of operation
- Used on 51-75% of operation
- Used on more than 75% of operation

**Required:** Yes**Logic:** None – all respond**Data collection level:** Field**Data collection frequency:** Initial enrollment

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**Field any CSAF practice**

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**Data element name:** Field any CSAF practice**Reporting question:** What is this field's prior experience with CSAF practices?**Description:** Prior to enrollment, have any CSAF practice or practices been used in this field in the past 3 years? CSAF practices are included in a list in Appendix A.**Data type:** List**Measurement unit:** Category**Select multiple values:** No**Allowed values:**

- Yes
- No
- I don't know

**Required:** Yes**Logic:** None – all respond**Data collection level:** Field**Data collection frequency:** Initial enrollment

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**Practice past use - this field**

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**Data element name:** Practice past use - this field**Reporting question:** Have this CSAF practice (combination) been implemented previously in this field?**Description:** Prior to enrollment, had this (these) CSAF practice(s) been used in this field in the in the past 3 years? Enter yes if all of the practices had been used previously in this field; enter some if multiple practices are being implemented and one or more, but not all of the practices had been used previously in this field; and enter no if none of the practices had been used previously in this field.**Data type:** List**Measurement unit:** Category**Select multiple values:** No**Allowed values:**

- Yes
- Some
- No
- I don't know

**Required:** Yes**Logic:** None – all respond**Data collection level:** Field**Data collection frequency:** Initial enrollment

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**Practice type****Data element name:** Practice type 1-7**Reporting question:** What CSAF practice is being implemented in this field through the project?

**Description:** Which CSAF practice or practices will be implemented on this field as part of enrollment in the project? CSAF practices are included in a list in Appendix A. The worksheet provides seven columns for this data element. Enter one value for each column. If there are fewer than 7 practices being implemented on this field through enrollment in the project, leave unnecessary columns blank.

**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 implemented on the field as part of enrollment in the project following a defined practice standard? The worksheet provides seven columns for this data element. Enter one value for each column, corresponding to the practice types entered in the previous columns. If there are fewer than 7 practices being implemented on this field through 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 implementation year**Reporting question:** What year is the CSAF practice planned to be implemented?

**Description:** Year that the CSAF practice is planned to be implemented on the field. Use 2022 for early adopters, defined as fields that have the practice actively implemented in 2022 (prior to contract being signed for this project). The worksheet provides seven columns for this data element. Enter one value for each column, corresponding to the practice types entered in the previous columns. If there are fewer than 7 practices being implemented on this field through enrollment in the project, leave unnecessary columns blank.

**Data type:** Integer**Select multiple values:** No**Measurement unit:** Year**Allowed values:** 2022-2030**Logic:** None – all respond**Required:** Yes**Data collection level:** Field**Data collection frequency:** Initial enrollment**Practice extent****Data element name:** Practice 1-7 extent**Reporting question:** To what extent is the practice implemented?

**Description:** Total area, length, or head where the practice is being implemented in the field specified by the contract.

**Data type:** Decimal**Select multiple values:** No**Measurement unit:** Extent**Allowed values:** .01-100,000**Logic:** None – all respond**Required:** Yes**Data collection level:** Field**Data collection frequency:** Initial enrollment



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**Practice extent unit**

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**Data element name:** Practice 1-7  
extent unit**Reporting question:** Unit for extent of practice implementation**Description:** Unit for extent of practice 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
- Head of livestock
- Linear feet
- Square feet
- Other (specify)

**Logic:** None – all respond**Required:** Yes**Data collection level:** Field**Data collection frequency:** Initial enrollment

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**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.



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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 1-3 **Reporting question:** What types of technical assistance were 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

**Allowed values:**

- Demonstration plots
- Equipment demonstrations
- Group field days or in-person field workshops
- Hotline
- One-on-one enrollment assistance
- One-on-one field visits
- One-on-one producer mentorship
- Producer networks and peer-to-peer groups
- Retailer consultation
- Social media/digital tools
- Train-the-trainer opportunities
- Virtual meetings or field days
- Webinars and videos
- 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 amount **Reporting question:** What is the total value of financial incentives provided to this producer?

**Description:** Total incentive payment received by the producer from USDA project funds for the year (non-cumulative). Do not include incentive payments made with partner match funds.

**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



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**Incentive reason**

---

**Data element name:** Incentive reason 1-4      **Reporting question:** Why were incentives provided to this producer?

**Description:** List up to four reasons for producer incentive payments. List the top 4 based on total value of the incentive for each reason. The worksheet provides four columns with a drop-down list of the allowed values. Choose one value for each column. If there are fewer than 4 reasons, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other reasons as free text.

**Data type:** List

**Select multiple values:** No

**Measurement unit:** Category

**Allowed values:**

- Avoided conversion
- Conference or training attendance
- Demographics/equity payment
- Enrollment
- Foregone revenue
- Historic data collection
- Identity preservation (supply chain tracing)
- Implementation of practices
- MMRV (e.g., data collection, reporting)
- Passing audit
- Price premium on output
- Yield change
- Other (specify)

**Logic:** None – all respond

**Required:** Yes

**Data collection level:** Producer

**Data collection frequency:** Quarterly

---

**Incentive structure**

---

**Data element name:** Incentive structure 1-4      **Reporting question:** What are the units for the financial incentives provided to this producer?

**Description:** List the structures (units) corresponding to the top 4 (by dollar value) incentive payments to producers. Production unit is weight or volume (bushel, kilogram, ton). The worksheet provides four columns with a drop-down list of the allowed values. Choose one value for each column. If there are fewer than 4 structure types, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other structure types as free text.

**Data type:** List

**Select multiple values:** No

**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:** Producer

**Data collection frequency:** Quarterly

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February 2023

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**Incentive type**

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**Data element name:** Incentive type 1-4**Reporting question:** What type of incentives were provided to each producer?

**Description:** List the top 4 types of incentive payments to producers (based on dollar value). The worksheet provides four columns with a drop-down list of the allowed values. Choose one value for each column. If there are fewer than 4 incentive types, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other incentive types as free text.

**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Cash payment
- Equipment loan
- Guaranteed commodity premium payment
- 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

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**Payment on enrollment**

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**Data element name:** Payment on enrollment**Reporting question:** What portion of the financial incentive is provided to the producer upon enrollment in the project?

**Description:** Any incentive payment provided to the producer upon enrollment/signing a contract, and not related to any implementation, MMRV or sales activities. Full payment means the full incentive amount for any contract held by the producer is paid upon enrollment. Partial payment means that only part of the full incentive amount for any contract held by the producer is paid upon enrollment. No payment means that none of the full incentive amount for any contract held by the producer is paid upon enrollment.

**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 implementation**

---

**Data element name:** Payment on implementation**Reporting question:** What portion of the financial incentive is provided to the producer upon implementation of the practices?

**Description:** Any incentive payment provided to the producer upon implementing the practices included in the contract. Full payment means the full incentive amount for any contract held by the producer is paid upon implementation. Partial payment means that only part of the full incentive amount for any contract held by the producer is paid upon implementation. No payment means that none of the full incentive amount for any contract held by the producer is paid upon implementation.

**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

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**Payment on harvest**

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**Data element name:** Payment on harvest**Reporting question:** What portion of the financial incentive is provided to the producer upon harvest of the commodity?

**Description:** Any incentive payment provided to the producer upon harvesting or slaughtering the commodity included in the contract. Full payment means the full incentive amount for any contract held by the producer is paid upon harvest. Partial payment means that only part of the full incentive amount for any contract held by the producer is paid upon harvest. No payment 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

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**Payment on MMRV**

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**Data element name:** Payment on MMRV**Reporting question:** What portion of the financial incentive is provided to the producer upon completing MMRV requirements?

**Description:** Any incentive payment provided to the producer upon completing the annual MMRV requirements included in the contract. Full payment means the full incentive amount for any contract held by the producer is paid upon MMRV being complete. Partial payment 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 incentive amount for any contract held by the producer is paid upon MMRV being complete.

**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

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**Payment on sale**

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**Data element name:** Payment on sale**Reporting question:** What portion of the financial incentive is provided to producer upon sale of the commodity?

**Description:** Any incentive payment provided to the producer upon sale of the commodity included in the contract. Full payment means the full incentive amount for any contract held by the producer is paid upon sale. Partial payment means that only part of the full incentive amount for any contract held by the producer is paid upon sale. No payment means that none of the full incentive amount for any contract held by the producer is paid upon sale.

**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

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Field Summary**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) |

**Commodity type**

**Data element name:** Commodity type **Reporting question:** What type of commodity is produced from this field?

**Description:** Type of commodity produced in field enrolled in the project. See full list in Appendix B. The worksheet provides multiple columns with a drop-down list of the allowed values. Choose one value for each column. Leave unnecessary columns blank.

**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**

**Data element name:** Field practice type 1-7 **Reporting question:** What CSAF practice is being implemented in this field through the project?

**Description:** Which climate-smart agriculture or forestry (CSAF) practice or practices are being implemented in this project? CSAF practices are included in a list in Appendix A. The worksheet provides seven columns for this data element. Enter one value for each column. If there are fewer than 7 practices being implemented on this field through enrollment in the project, leave unnecessary columns blank.

**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:** Quarterly

**Date practice complete**

**Data element name:** Date practice complete **Reporting question:** When did the project certify CSAF practice implementation as complete?

**Description:** Date that the project certifies that implementation of the CSAF practice is complete on the field. Use January of the year prior to contract year for early adopters, defined as fields that have the practice actively implemented in the year prior to a contract associated with this project is signed). The worksheet provides seven columns for this data element. Enter one value for each column, corresponding to the practice types entered in the previous columns. If there are fewer than 7 practices being implemented on this field through enrollment in the project, leave unnecessary columns blank.

**Data type:** Date

**Select multiple values:** No

**Measurement unit:** MM/DD/YYYY

**Allowed values:** 01/01/2023 – 12/31/2030

**Logic:** None – all respond

**Required:** Yes

**Data collection level:** Field

**Data collection frequency:** Quarterly

**Contract end date****Data element name:** Contract end date**Reporting question:** Contract end date**Description:** End date listed on the contract that enrolls the field in the project. If contract end date changes, submit updated end date during the next quarter's reporting.**Data type:** Date**Select multiple values:** No**Measurement unit:** MM/DD/YYYY**Allowed values:** 01/01/2023 – 12/31/2030**Logic:** None – all respond**Required:** Yes**Data collection level:** Field**Data collection frequency:** Quarterly**MMRV assistance provided****Data element name:** MMRV assistance provided**Reporting question:** Was MMRV assistance provided?**Description:** Was any MMRV assistance provided to the primary operator for this field? MMRV assistance includes in-field support for the use of technologies, consultation on data collection and input, and other support related to MMRV. MMRV is defined a measurement (calculations or estimations of GHG emissions), 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), and verification (independent confirmation that measurement, monitoring and reporting information are complete, accurate and reliable).**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**Marketing assistance provided****Data element name:** Marketing assistance provided**Reporting question:** Was marketing assistance provided?**Description:** Was any marketing assistance provided to the primary operator for the commodity(ies) produced from this field? Marketing assistance includes guaranteeing the sale of the commodity(ies), providing a platform for the sale of the commodity(ies), providing a label, branding, or other support related to marketing.**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**Incentive per acre or head****Data element name:** Incentive per acre or head**Reporting question:** Is this field receiving a per-acre or per-head incentive?**Description:** Is this field receiving an incentive payment to implement a specific CSAF practice or set of practices on a per-acre or per-head (livestock) basis?**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



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**Field commodity value**

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|                                                                                       |                                                                                               |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Data element name:</b> Field commodity value                                       | <b>Reporting question:</b> What is the value of the commodity produced on the enrolled field? |
| <b>Description:</b> The dollar value of the commodity produced on the enrolled field. |                                                                                               |
| <b>Data type:</b> Decimal                                                             | <b>Select multiple values:</b> No                                                             |
| <b>Measurement unit:</b> Dollars                                                      | <b>Allowed values:</b> \$1-\$10,000,000                                                       |
| <b>Logic:</b> None – all respond                                                      | <b>Required:</b> Yes                                                                          |
| <b>Data collection level:</b> Field                                                   | <b>Data collection frequency:</b> Quarterly                                                   |

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**Field commodity volume**

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|                                                                                |                                                                                            |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Data element name:</b> Field commodity volume                               | <b>Reporting question:</b> What is the volume of commodity produced on the enrolled field? |
| <b>Description:</b> The volume of the commodity produced on the enrolled field |                                                                                            |
| <b>Data type:</b> Decimal                                                      | <b>Select multiple values:</b> No                                                          |
| <b>Measurement unit:</b> Number                                                | <b>Allowed values:</b> 1-10,000,000                                                        |
| <b>Logic:</b> None – all respond                                               | <b>Required:</b> Yes                                                                       |
| <b>Data collection level:</b> Field                                            | <b>Data collection frequency:</b> Quarterly                                                |

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**Field commodity volume unit**

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|                                                                                                                                                                                      |                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Data element name:</b> Field commodity volume unit                                                                                                                                | <b>Reporting question:</b> What is the unit of volume?                                                                                                                                                                                                        |
| <b>Description:</b> The unit associated with the volume of the commodity produced on the enrolled field. If “other” is chosen, enter the appropriate value in the additional column. |                                                                                                                                                                                                                                                               |
| <b>Data type:</b> List                                                                                                                                                               | <b>Select multiple values:</b> No                                                                                                                                                                                                                             |
| <b>Measurement unit:</b> Category                                                                                                                                                    | <b>Allowed values:</b> <ul style="list-style-type: none"><li>• Bushels</li><li>• Carcass weight pounds</li><li>• Gallons</li><li>• Head</li><li>• Linear feet</li><li>• Liveweight pounds</li><li>• Pounds</li><li>• Tons</li><li>• Other (specify)</li></ul> |
| <b>Logic:</b> None – all respond                                                                                                                                                     | <b>Required:</b> Yes                                                                                                                                                                                                                                          |
| <b>Data collection level:</b> Field                                                                                                                                                  | <b>Data collection frequency:</b> Quarterly                                                                                                                                                                                                                   |

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**Cost of implementation**

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|                                                                                                                 |                                                                                      |
|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Data element name:</b> Cost of implementation                                                                | <b>Reporting question:</b> What is the cost of practice implementation in the field? |
| <b>Description:</b> Total annual estimated cost per unit of implementing the practice(s) in the enrolled field. |                                                                                      |
| <b>Data type:</b> Decimal                                                                                       | <b>Select multiple values:</b> No                                                    |
| <b>Measurement unit:</b> Dollars                                                                                | <b>Allowed values:</b> \$1-\$10,000,000                                              |
| <b>Logic:</b> None – all respond                                                                                | <b>Required:</b> Yes                                                                 |
| <b>Data collection level:</b> Field                                                                             | <b>Data collection frequency:</b> Quarterly                                          |

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**Cost unit****Data element name:** Cost unit**Reporting question:** What is the unit for cost?**Description:** The unit associated with the cost of implementing CSAF practices in the field. If "other" is chosen, enter the appropriate value in the additional column.**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 (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?**Description:** Estimated proportion of total annual cost of implementing the practice(s) that is covered by project incentives.**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**Reporting question:** How were GHG impacts monitored in this field?**Description:** Up to the top three forms of monitoring GHG benefits 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 3 methods, based on which methods are most commonly used for this field. The worksheet provides three columns with a drop-down list of the allowed values. Choose one value for each column. If fewer than 3 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**Measurement unit:** Category**Allowed values:**

- Drones
- Ground-level photos and videos
- On-farm inspection
- Plot-based sampling (e.g., soil, water)
- 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:** Field**Data collection frequency:** Quarterly



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**Field GHG reporting**

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**Data element name:** Field GHG reporting 1-3**Reporting question:** How were GHG benefits reported for this field?

**Description:** Up to the top three forms of reporting on GHG benefits 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 3 methods, based on which methods are most commonly used for this field. The worksheet provides three columns with a drop-down list of the allowed values. Choose one value for each column. If fewer than 3 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:** Field**Data collection frequency:** Quarterly

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**Field GHG verification**

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**Data element name:** Field GHG verification 1-3**Reporting question:** How was implementation of practices to reduce GHG emissions verified for this field?

**Description:** Up to the top three of verification of GHG benefits 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 3 methods, based on which methods are most commonly used for this field. The worksheet provides three columns with a drop-down list of the allowed values. Choose one value for each column. If fewer than 3 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
- Computer modeling
- Recipient audit
- Photos
- Record audit
- Satellite imagery
- Site or field visit
- Third-party audit
- Other (specify)

**Logic:** None – all respond**Required:** Yes**Data collection level:** Field**Data collection frequency:** Quarterly

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**Field GHG calculations****Data element name:** Field GHG calculations**Description:** List the method(s) used to calculate GHG benefits in this field. If yes to direct physical measurements, submit result reports (see *Supplemental Data Submission – Field direct GHG measurement results*).**Data type:** List**Measurement unit:** Category**Logic:** None – all respond**Data collection level:** Field**Reporting question:** What methods are used to calculate GHG benefits in this field?**Select multiple values:** No**Allowed values:**

- Models
- Direct field measurements
- Both

**Required:** Yes**Data collection frequency:** Quarterly**Field official GHG calculation****Data element name:** Field official GHG calculation**Description:** List the method used to calculate the official GHG benefits in this field that are reported as part of the project's aggregate impact.**Data type:** List**Measurement unit:** Category**Logic:** None – all respond**Data collection level:** Field**Reporting question:** What method was used to calculate the official GHG benefits in this field?**Select multiple values:** No**Allowed values:**

- Models
- Direct field measurements

**Required:** Yes**Data collection frequency:** Quarterly**Field official GHG ER****Data element name:** Field official GHG emission reductions**Description:** Estimated greenhouse gas emission reductions from practice implementation in this field that are reported as part of the project's aggregate impact. This data element must be entered upon practice completion or annually, as appropriate.**Data type:** Decimal**Measurement unit:** Metric tons CO<sub>2</sub>eq**Logic:** None – all respond**Data collection level:** Field**Reporting question:** What are the estimated total GHG emission reductions (CO<sub>2</sub>eq) in this field?**Select multiple values:** No**Allowed values:** 0-10,000,000**Required:** Yes**Data collection frequency:** Quarterly**Field official carbon stock****Data element name:** Field official carbon stock**Description:** Estimated total change in carbon stock based on practice implementation in this field. This data element can be reported in any quarter and is cumulative for the year. Conversion rate is one ton of carbon = 3.67 tons of CO<sub>2</sub>eq.**Data type:** Decimal**Measurement unit:** Metric tons CO<sub>2</sub>eq**Logic:** None – all respond**Data collection level:** Field**Reporting question:** How much carbon has been sequestered in this field?**Select multiple values:** No**Allowed values:** 0-10,000,000**Required:** Yes**Data collection frequency:** Quarterly

**Field official CO2 ER****Data element name:** Field official CO2 emission reductions**Reporting question:** What are the estimated total CO2 emission reductions in this field?**Description:** Estimated total carbon dioxide emission reductions based on practice implementation in this field that are reported as part of the project's aggregate impact. This data element must be entered upon practice completion or annually, as appropriate.**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 emission reductions**Reporting question:** What are the estimated total CH4 emission reductions in this field?**Description:** Estimated total methane emission reductions based on practice implementation in this field that are reported as part of the project's aggregate impact. This data element must be entered upon practice completion or annually, as appropriate. Conversion rate is one ton of CH<sub>4</sub> = 25 tons of CO<sub>2</sub>eq.**Data type:** Decimal**Select multiple values:** No**Measurement unit:** Metric tons CH4 reduced in CO<sub>2</sub>eq**Allowed values:** 0-10,000,000**Logic:** None – all respond**Required:** Yes**Data collection level:** Field**Data collection frequency:** Quarterly**Field official N2O ER****Data element name:** Field official N2O emission reductions**Reporting question:** 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 that are reported as part of the project's aggregate impact. This data element must be entered upon practice completion or annually, as appropriate. Conversion rate is one ton of N<sub>2</sub>O = 298 tons of CO<sub>2</sub>eq.**Data type:** Decimal**Select multiple values:** No**Measurement unit:** Metric tons N2O reduced in CO<sub>2</sub>eq**Allowed values:** 0-10,000,000**Logic:** None – all respond**Required:** Yes**Data collection level:** Field**Data collection frequency:** Quarterly**Field offsets produced****Data element name:** Field offsets produced**Reporting question:** How many carbon offsets have been produced in this field?**Description:** Total carbon offsets produced in the field during the quarter (not cumulative). Offsets are defined as having been verified and certified using an accepted standard and sold into the carbon marketplace.**Data type:** Decimal**Select multiple values:** No**Measurement unit:** Metric tons CO<sub>2</sub>eq**Allowed values:** 0-10,000,000**Logic:** None – all respond**Required:** Yes**Data collection level:** Field**Data collection frequency:** Quarterly



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**Field insets produced**

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**Data element name:** Field insets produced      **Reporting question:** How many carbon insets have been produced in this field?

**Description:** Total carbon insets produced in the field during the quarter (not cumulative). Insets are defined as having been verified and certified using an accepted standard and accounted for within Scope 3 emissions for a firm.

**Data type:** Decimal

**Select multiple values:** No

**Measurement unit:** Metric tons CO<sub>2</sub>eq

**Allowed values:** 0-10,000,000

**Logic:** None – all respond

**Required:** Yes

**Data collection level:** Field

**Data collection frequency:** Quarterly

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**Other field measurement**

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**Data element name:** Other field measurement

**Reporting question:** Were data collected from the field for reasons other than GHG benefit estimation?

**Description:** Direct physical measurements or data collection taken in the field for any reason other than GHG benefits estimation. These reasons could include calibration of GHG estimation tools or models, tracking other environmental benefits (see Field environmental benefits report), and other reasons. If yes, submit corresponding reports (see *Supplemental data 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**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) |

**Commodity type****Data element name:** Commodity type 1-6**Reporting question:** What type of commodity(ies) is produced from this field?

**Description:** Type of commodity(ies) produced in field enrolled in the project. See full list of commodity options in Appendix B. The worksheet provides multiple columns with drop-down lists of the allowed values. Choose one value for each column. Leave unnecessary columns blank

**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:** FSA commodity list**Logic:** None – all respond**Required:** If project calculates GHG benefits using multiple methods**Data collection level:** Field**Data collection frequency:** Annual**Practice type****Data element name:** Practice type 1-7**Reporting question:** What CSAF practice is being implemented by this project?

**Description:** Which CSAF practice or practices are being implemented in this project? CSAF practices are included in a list in Appendix A. The worksheet provides seven columns for this data element. Enter one value for each column. If there are fewer than 7 practices being implemented by the project, leave unnecessary columns blank.

**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:** See list in Appendix A**Logic:** None – all respond**Required:** If project calculates GHG benefits using multiple methods**Data collection level:** Field**Data collection frequency:** Annual



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**GHG model****Data element name:** GHG model **Reporting question:** What model was used for alternate calculation of GHG benefits?**Description:** Select the model used for the alternate calculation of the field's GHG benefits.**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- ACC Calculator
- Agriculture, Forestry and Other Land Use (AFOLU) Carbon Calculator
- AIRES
- APEX
- Bowen Ratio Energy Balance
- Carat-Calculator
- CArPE
- CDFA web-based calculator
- COMET-Farm
- COMET-Planner
- CoolFarm
- Cover Crop Explore
- CropTrak
- CultivateAI's FMIS
- DayCent-CR
- DNDC
- DSSAT
- Earth Optics
- EcoPractices
- EPIC
- Extrapolation based on literature
- FieldPrint
- Granular
- GREET
- gTIR
- IFSM
- IPCC default emissions factors & models
- itree
- Nitrogen Balance
- Nutrient Tracking Tool (NTT)
- RCD Project Tracker
- Revised Universal Soil Loss equation 2 (RUSLE2)
- RuFaS
- SAFE-Link
- SALUS (CIBO)
- SNAPGRAZE
- SquareRoots
- SWAT-C
- SYMFONI
- Truterra Sustainability Tool
- Verra
- WEPP
- YardStick
- Other (specify)

**Logic:** None – all respond**Required:** If project calculates GHG benefits using multiple methods**Data collection level:** Field**Data collection frequency:** Annual

**Model start date****Data element name:** Model start date**Reporting question:** For what time period are the GHG benefits modeled (model start date)?**Description:** Date that the model parameters 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**Required:** 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**Reporting question:** For what time period are the GHG benefits modeled (model end date)?**Description:** Date that the model parameters 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**Required:** 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's total GHG emission reductions?**Description:** Total greenhouse gas emission reductions from practice implementation in the field estimated using an alternate model.**Data type:** Decimal**Select multiple values:** No**Measurement unit:** Metric tons CO<sub>2</sub>eq**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 much carbon has the field has sequestered?**Description:** Total change in carbon stock based on practice implementation in the field estimated using an alternate model. Conversion rate is one ton of carbon = 3.67 tons of CO<sub>2</sub>eq.**Data type:** Decimal**Select multiple values:** No**Measurement unit:** Metric tons CO<sub>2</sub>eq**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 CO<sub>2</sub> estimated****Data element name:** Total CO<sub>2</sub> estimated**Reporting question:** What is the alternate estimate of the field's total CO<sub>2</sub> emission reductions?**Description:** Total carbon dioxide emission reductions based on practice implementation in the field estimated using an alternate model.**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:** If project calculates GHG benefits using multiple methods**Data collection level:** Field**Data collection frequency:** Annual



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**Total CH4 estimated**

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**Data element name:** Total CH4 estimated**Reporting question:** What is the alternate estimate of the field's total CH4 emission reductions?**Description:** Total methane emission reductions based on practice implementation in the field estimated using an alternate model. Conversion rate is one ton of CH<sub>4</sub> = 25 tons of CO<sub>2</sub>eq.**Data type:** Decimal**Select multiple values:** No**Measurement unit:** Metric tons CH4 reduced in CO<sub>2</sub>eq**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

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**Total field N2O estimated**

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**Data element name:** Total N2O estimated**Reporting question:** What is the alternate estimate of the field's total N2O emission reductions?**Description:** Total nitrous oxide emission reductions based on practice implementation in the field estimated using an alternate method. Conversion rate is one ton of N<sub>2</sub>O = 298 tons of CO<sub>2</sub>eq.**Data type:** Decimal**Select multiple values:** No**Measurement unit:** Metric tons N2O reduced in CO<sub>2</sub>eq**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

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GHG Benefits - Measured**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) |

**GHG measurement method****Data element name:** GHG measurement method**Reporting question:** What measurement method is used to calculate GHG benefits?**Description:** Field-based measurement method used to calculate GHG benefits. If "other" is chosen, enter the appropriate value as free text in the additional column.**Data type:** List**Measurement unit:** Category**Select multiple values:** No**Allowed values:**

- Emissions measurement unit
- Flux towers
- Litterbags
- Plant measurements
- Portable emissions analyzers
- Soil flux chambers
- Soil samples
- Soil sensors
- Vehicle-mounted sensors
- Other (specify)

**Required:** If a project conducts soil samples or takes carbon stock or greenhouse gas emission measurements in this field**Logic:** None – all respond**Data collection level:** Field**Data collection frequency:**  
Annual**Lab name****Data element name:** Lab name**Reporting question:** What is the name of the lab that processed the measurement samples?**Description:** Name of entity that received data and conducted analysis of samples.**Data type:** Text**Select multiple values:** No**Measurement unit:** NA**Allowed values:** Free text**Logic:** None – all respond**Required:** If applicable**Data collection level:** Field**Data collection frequency:** Annual

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



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**Total CH4 reduction calculated**

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**Data element name:** Total CH4 reduction calculated

**Reporting question:** What are the total measured CH4 emission reductions?

**Description:** Total annual methane emission reductions based on practice implementation in the field calculated from in-field measurements. Conversion rate is one ton of CH<sub>4</sub> = 25 tons of CO<sub>2</sub>eq.

**Data type:** Decimal

**Select multiple values:** No

**Measurement unit:** Metric tons CH4 reduced in CO<sub>2</sub>eq

**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 N2O reduction calculated**

---

**Data element name:** Total N2O reduction calculated

**Reporting question:** What are the total measured N2O emission reductions?

**Description:** Total annual nitrous oxide emission reductions based on practice implementation in the field calculated from in-field measurements. Conversion rate is one ton of N<sub>2</sub>O = 298 tons of CO<sub>2</sub>eq.

**Data type:** Decimal

**Select multiple values:** No

**Measurement unit:** Metric tons N2O reduced in CO<sub>2</sub>eq

**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 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

**Required:** If a project conducts soil samples in this field

**Data collection level:** Field

**Data collection frequency:** Annual

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**Soil sample result unit****Data element name:** Soil sample result unit **Reporting question:** What is unit for the soil sample result?**Description:** Unit for the corresponding soil sample result. The worksheet provides a drop-down list of choices for this data element. If "other" is chosen, use the additional column to enter the appropriate yield unit as free text.**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Percent
- Ppm
- Grams
- Grams per cubic centimeter
- Other (specify)

**Logic:** None – all respond**Required:** If a project conducts soil samples in this field**Data collection level:** Field**Data collection frequency:** Annual

---

**Measurement type****Data element name:** Measurement type**Reporting question:** 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 additional 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

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Additional Environmental Benefits**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) |

**Environmental benefits**

**Data element name:** Environmental benefits

**Description:** Tracking of environmental benefits other than greenhouse gas emission reductions and carbon sequestration in the enrolled field. Tracking means at a minimum using some form of monitoring and reporting that can quantify benefits.

**Data type:** List

**Measurement unit:** Category

**Reporting question:** Are environmental benefits other than GHGs being tracked in the field?

**Select multiple values:** No

**Allowed values:**

- Yes
- No
- I don't know

**Required:** Yes

**Logic:** None – all respond

**Data collection level:** Field

**Data collection frequency:** Annual

**Reduction in nitrogen loss**

**Data element name:** Reduction in nitrogen loss

**Description:** Tracking reductions in nitrogen losses in the enrolled field. Tracking means at a minimum using some form of monitoring and reporting that can quantify benefits.

**Data type:** List

**Measurement unit:** Category

**Reporting question:** Are reductions in nitrogen losses being tracked in the field?

**Select multiple values:** No

**Allowed values:**

- Yes
- No
- I don't know

**Required:** Yes

**Logic:** Respond if yes to 'Environmental benefits'

**Data collection level:** Field

**Data collection frequency:** Annual

**Reduction in nitrogen loss amount**

**Data element**

**name:** Reduction in nitrogen loss amount

**Description:** Total amount of reduction in nitrogen losses that is measured and reported in the enrolled field.

**Data type:** Decimal

**Measurement unit:** Amount

**Reporting question:** How much reduction in nitrogen losses have been measured in the field?

**Select multiple values:** No

**Allowed values:** 0-1,000,000

**Logic:** Respond if yes to 'Reduction in nitrogen loss'

**Required:** Yes

**Data collection level:** Field

**Data collection frequency:** Annual

**Reduction in nitrogen loss amount unit****Data element name:** Reduction in nitrogen loss amount unit**Description:** Unit for the total amount of reduction in nitrogen losses that is measured and reported in the enrolled field. If "other" is chosen, enter the appropriate value as free text in the additional column.**Data type:** List**Measurement unit:** Category**Reporting question:** What is the unit for how much reduction in nitrogen losses have been measured in the field?**Select multiple values:** No**Allowed values:**

- Kilograms
- Metric tons
- Pounds
- Other (specify)

**Required:** Yes**Logic:** Respond if yes to 'Reduction in nitrogen loss'**Data collection level:** Field**Data collection frequency:** Annual**Reduction in nitrogen loss purpose****Data element name:** Reduction in nitrogen loss purpose**Description:** Purpose of tracking reduction in nitrogen losses in the enrolled field. If "other" is chosen, enter the appropriate value as free text in the additional column.**Data type:** List**Measurement unit:** Category**Reporting question:** What is the purpose of tracking reduction in nitrogen losses?**Select multiple values:** No**Allowed values:**

- Commodity marketing
- Producing insets
- Producing offsets
- I don't know
- Other (specify)

**Required:** Yes**Logic:** Respond if yes to 'Reduction in nitrogen loss'**Data collection level:** Project**Data collection frequency:** Annual**Reduction in phosphorus loss****Data element name:** Reduction in phosphorus loss**Description:** Tracking of reductions in phosphorus losses in the enrolled field. Tracking means at a minimum using some form of monitoring and reporting that can quantify benefits.**Data type:** List**Measurement unit:** Category**Reporting question:** Are reductions in phosphorus losses being tracked in the field?**Select multiple values:** No**Allowed values:**

- Yes
- No
- I don't know

**Required:** Yes**Logic:** Respond if yes to 'Environmental benefits'**Data collection level:** Field**Data collection frequency:** Annual**Reduction in phosphorus loss amount****Data element name:** Reduction in phosphorus loss amount**Description:** Total amount of reduction in phosphorus losses that is measured in the field.**Data type:** Decimal**Measurement unit:** Amount**Reporting question:** How much reduction in phosphorus losses have been measured in the field?**Select multiple values:** No**Allowed values:** 0-1,000,000**Required:** Yes**Logic:** Respond if yes to 'Reduction in phosphorus loss'**Data collection level:** Field**Data collection frequency:** Annual



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**Reduction in phosphorus loss amount unit****Data element name:** Reduction in phosphorus loss amount unit**Description:** Unit for the total amount of reduction in phosphorus losses that is measured in the enrolled field. If "other" is chosen, enter the appropriate value as free text in the additional column.**Data type:** List**Measurement unit:** Category**Reporting question:** What is the unit for the reduction in phosphorus losses measured in the field?**Select multiple values:** No**Allowed values:**

- Kilograms
- Metric tons
- Pounds
- Other (specify)

**Required:** Yes**Logic:** Respond if yes to 'Reduction in phosphorus loss'**Data collection level:** Field**Data collection frequency:** Annual**Reduction in phosphorus loss purpose****Data element name:** Reduction in phosphorus loss purpose**Description:** Purpose of tracking reduction in phosphorus losses in the enrolled field. If "other" is chosen, enter the appropriate value as free text in the additional column.**Data type:** List**Measurement unit:** Category**Reporting question:** What is the purpose of tracking reductions in phosphorus losses?**Select multiple values:** No**Allowed values:**

- Commodity marketing
- Producing insets
- Producing offsets
- I don't know
- Other (specify)

**Required:** Yes**Logic:** Respond if yes to 'Reduction in phosphorus loss'**Data collection level:** Field**Data collection frequency:** Annual**Other water quality****Data element name:** Other water quality**Description:** Project tracking of other water quality metrics in the enrolled field. Tracking means at a minimum using some form of monitoring and reporting that can quantify benefits.**Data type:** List**Measurement unit:** Category**Reporting question:** Are other water quality metrics being tracked in the field?**Select multiple values:** No**Allowed values:**

- Yes
- No
- I don't know

**Required:** Yes**Logic:** Respond if yes to 'Environmental benefits'**Data collection level:** Field**Data collection frequency:** Annual



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**Other water quality type**

---

**Data element name:** Other water quality type**Reporting question:** What type of other water quality metric have been measured in the field?**Description:** Type of other water quality metric (besides nitrogen loss and phosphorus loss reductions) that is measured in the field. If "other" is chosen, enter 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

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**Other water quality amount**

---

**Data element name:** Other water quality amount**Reporting question:** How much reduction in other water quality metrics have been measured in the field?**Description:** Total amount of reduction in other 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

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**Other water quality amount unit**

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**Data element name:** Other water quality amount unit**Reporting question:** What is the unit for the reduction in other water quality metrics measured in the field?**Description:** Unit for the total amount of reduction in other water quality metrics that is measured in the enrolled field. If "other" is chosen, enter 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
- Other (specify)

**Logic:** Respond if yes to 'Other water quality'**Required:** Yes**Data collection level:** Field**Data collection frequency:** Annual

---

**Other water quality purpose****Data element name:** Other water quality purpose**Description:** Purpose of tracking other water quality benefits in the enrolled field. If "other" is chosen, enter the appropriate value as free text in the additional column.**Data type:** List**Measurement unit:** Category**Reporting question:** What is the purpose of tracking other water quality benefits?**Select multiple values:** No**Allowed values:**

- Commodity marketing
- Producing insets
- Producing offsets
- I don't know
- Other (specify)

**Required:** Yes**Logic:** Respond if yes to 'Other water quality'**Data collection level:** Field**Data collection frequency:** Annual**Water 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 and reporting that can quantify benefits.**Data type:** List**Measurement unit:** Category**Select multiple values:** No**Allowed values:**

- Yes
- No
- I don't know

**Required:** Yes**Logic:** Respond if yes to 'Environmental benefits'**Data collection level:** Field**Data collection frequency:** Annual**Water quantity amount****Data element name:** Water quantity amount**Reporting question:** How much water conservation has been measured in the field?**Description:** Total amount of water conservation or reduction that is measured in the field.**Data type:** Decimal**Measurement unit:** Amount**Select multiple values:** No**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**Reporting question:** What is the unit for the amount of water conservation measured in the field?**Description:** Unit for the total amount of water conservation or reduced use that is measured and reported in the enrolled field. If "other" is chosen, enter the appropriate value as free text in the additional column.**Data type:** List**Measurement unit:** Category**Select multiple values:** No**Allowed values:**

- Acre-feet
- Cubic feet
- Other (specify)

**Required:** Yes**Logic:** Respond if yes to 'Water quantity'**Data collection level:** Field**Data collection frequency:** Annual



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**Water quantity purpose****Data element name:** Water quantity purpose**Description:** Purpose of tracking water conservation or reductions in water use in the enrolled field. If "other" is chosen, enter the appropriate value as free text in the additional column.**Data type:** List**Measurement unit:** Category**Reporting question:** What is the purpose of tracking water conservation?**Select multiple values:** No**Allowed values:**

- Commodity marketing
- Producing insets
- Producing offsets
- I don't know
- 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**Reporting question:** Is reduced soil erosion being tracked in the field?**Description:** Tracking of reduced soil erosion in the enrolled field. Tracking means at a minimum using some form of monitoring and reporting that can quantify benefits.**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Yes
- No
- I don't know

**Logic:** Respond if yes to 'Environmental benefits'**Required:** Yes**Data collection level:** Field**Data collection frequency:** Annual**Reduced erosion amount****Data element name:** Reduced erosion amount**Reporting question:** How much erosion reduction has been measured in the field?**Description:** Total amount of erosion reduction 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 erosion'**Required:** Yes**Data collection level:** Field**Data collection frequency:** Annual**Reduced erosion amount unit****Data element name:** Reduced erosion unit**Reporting question:** What is the unit for the amount of erosion reduction measured?**Description:** Unit for the total amount of erosion reduction from enrolled fields that is measured and reported by the project. If "other" is chosen, enter the 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



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**Reduced erosion purpose**

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**Data element name:** Reduced erosion purpose**Description:** Purpose of tracking reduced erosion the enrolled field. If "other" is chosen, enter the appropriate value as free text in the additional column.**Data type:** List**Measurement unit:** Category**Reporting question:** What is the purpose of tracking reduced erosion in the field?**Select multiple values:** No**Allowed values:**

- Commodity marketing
- Producing insets
- Producing offsets
- I don't know
- Other (specify)

**Logic:** Respond if yes to 'Reduced erosion'**Required:** Yes**Data collection level:** Field**Data collection frequency:** Annual

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**Reduced energy use**

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**Data element name:** Reduced energy use**Reporting question:** Is reduced energy use being tracked in the field?**Description:** Tracking of reduced energy use in the enrolled field. Tracking means at a minimum using some form of monitoring and reporting that can quantify benefits.**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Yes
- No
- I don't know

**Logic:** Respond if yes to 'Environmental benefits'**Required:** Yes**Data collection level:** Field**Data collection frequency:** Annual

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**Reduced energy use amount**

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**Data element name:** Reduced energy use amount**Reporting question:** How much energy use reduction has been measured in the field?**Description:** Total amount of energy use reduction 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

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**Reduced energy use amount unit**

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**Data element name:** Reduced energy use unit**Reporting question:** What is the unit for the energy use reduction measured in the field?**Description:** Unit for the total amount of energy use reduction that is measured in the enrolled field. If "other" is chosen, enter the appropriate value as free text in the additional column.**Data type:** List**Select multiple values:** No**Measurement unit:** Category**Allowed values:**

- Kilowatt hours
- Other (specify)

**Logic:** Respond if yes to 'Reduced energy use'**Required:** Yes**Data collection level:** Field**Data collection frequency:** Annual

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**Reduced energy use purpose**

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**Data element name:** Reduced energy use purpose**Description:** Purpose of tracking reduced energy use in the enrolled field. If "other" is chosen, enter the appropriate value as free text in the additional column.**Data type:** List**Measurement unit:** Category**Reporting question:** What is the purpose of tracking reduced energy use in the field?**Select multiple values:** No**Allowed values:**

- Commodity marketing
- Producing insets
- Producing offsets
- I don't know
- Other (specify)

**Required:** Yes**Logic:** Respond if yes to 'Reduced energy use'**Data collection level:** Field**Data collection frequency:** Annual

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**Avoided land conversion**

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**Data element name:** Avoided land conversion**Description:** Tracking of avoided land conversion in the enrolled field. Tracking means at a minimum using some form of monitoring and reporting that can quantify benefits. Land conservation means land use changing from agricultural uses to non-agricultural uses.**Data type:** List**Measurement unit:** Category**Reporting question:** Is avoided land conversion being tracked in the field?**Select multiple values:** No**Allowed values:**

- Yes
- No
- I don't know

**Required:** Yes**Logic:** Respond if yes to 'Environmental benefits'**Data collection level:** Field**Data collection frequency:** Annual

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**Avoided land conversion amount**

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**Data element name:** Avoided land conversion amount**Description:** Total amount of avoided land conversion that is measured in the enrolled field.**Data type:** Decimal**Measurement unit:** Amount**Reporting question:** How much avoided land conversion has been measured in the field?**Select multiple values:** No**Allowed values:** 0-1,000,000**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 amount unit**

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**Data element name:** Avoided land conversion unit**Description:** Unit for the total amount of avoided land conversion that is measured in the enrolled field. If "other" is chosen, enter the appropriate value as free text in the additional column.**Data type:** List**Measurement unit:** Category**Reporting question:** What is the unit for the amount of avoided land conversion measured in the field?**Select multiple values:** No**Allowed values:**

- Acres
- Other (specify)

**Required:** Yes**Logic:** Respond if yes to 'Avoided land conversion'**Data collection level:** Field**Data collection frequency:** Annual

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**Avoided land conversion purpose****Data element name:** Avoided land conversion purpose**Description:** Purpose of tracking avoided land conversion in the enrolled field. If "other" is chosen, enter the appropriate value as free text in the additional column.**Data type:** List**Measurement unit:** Category**Reporting question:** What is the purpose of tracking avoided land conversion in the field?**Select multiple values:** No**Allowed values:**

- Commodity marketing
- Producing insets
- Producing offsets
- I don't know
- Other (specify)

**Required:** Yes**Logic:** Respond if yes to 'Avoided land conversion'**Data collection level:** Field**Data collection frequency:** Annual**Improved wildlife habitat****Data element name:** Improved wildlife habitat**Description:** Tracking of improvements to wildlife in and around the enrolled field. Tracking means at a minimum using some form of monitoring and reporting that can quantify benefits.**Data type:** List**Measurement unit:** Category**Reporting question:** Are improvements to wildlife habitat being tracked in the field?**Select multiple values:** No**Allowed values:**

- Yes
- No
- I don't know

**Required:** Yes**Logic:** Respond if yes to 'Environmental benefits'**Data collection level:** Field**Data collection frequency:** Annual**Improved wildlife habitat amount****Data element name:** Improved wildlife habitat amount**Description:** Total amount of improved wildlife habitat that is measured in and around the enrolled fields.**Data type:** Decimal**Measurement unit:** Amount**Reporting question:** How much improved wildlife habitat has been measured in the field?**Select multiple values:** No**Allowed values:** 0-1,000,000**Required:** Yes**Logic:** Respond if yes to 'Improved wildlife habitat'**Data collection level:** Field**Data collection frequency:** Annual**Improved wildlife habitat amount unit****Data element name:** Improved wildlife habitat unit**Description:** Unit for the total amount of improved wildlife habitat that is measured in and around enrolled fields. If "other" is chosen, enter the appropriate value as free text in the additional column.**Data type:** List**Measurement unit:** Category**Reporting question:** What is the unit for the amount of improved wildlife habitat measured in the field?**Select multiple values:** No**Allowed values:**

- Acres
- Linear feet
- Other (specify)

**Required:** Yes**Logic:** Respond if yes to 'Improved wildlife habitat'**Data collection level:** Field**Data collection frequency:** Annual



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**Improved wildlife habitat purpose**

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**Data element name:** Improved wildlife habitat purpose

**Description:** Purpose of tracking improved wildlife habitat in the enrolled field. If “other” is chosen, enter the appropriate value as free text in the additional column.

**Data type:** List

**Measurement unit:** Category

**Reporting question:** What is the purpose of tracking improved wildlife habitat in the field?

**Select multiple values:** No

**Allowed values:**

- Commodity marketing
- Producing insets
- Producing offsets
- I don’t know
- Other (specify)

**Logic:** Respond if yes to ‘Improved wildlife habitat’

**Required:** Yes

**Data collection level:** Field

**Data collection frequency:** Annual

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February 2023

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<br>Deciduous trees<br>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<br>Anaerobic digester (complex mix) with energy generation<br>Anaerobic digester (plug flow) with energy generation<br>Anaerobic lagoon<br>Composting<br>Covered lagoon (no energy generation or flaring)<br>Covered lagoon with energy generation<br>Covered lagoon with flaring<br>Daily spread<br>Deep bedding pack<br>Deep pit<br>Dry lot<br>Dry stacking/solid storage<br>Pasture/range/paddock<br>Poultry with bedding<br>Poultry without bedding (e.g., high rise)<br>Slurry tank/basin |
|                              |                                                                             | Covered lagoon with energy generation<br>Covered lagoon with flaring<br>Covered lagoon (no energy generation or flaring)<br>Complex mix with energy generation<br>Plug flow with energy generation<br>Other (specify)                                                                                                                                                                                                                                                                                         |
|                              |                                                                             | Food waste<br>Straw or bedding<br>Wastewater<br>Other (specify)                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                              |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                              |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|                              |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |



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



|                                         |                                                                             |                                                                                                                    |
|-----------------------------------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Conservation Crop Rotation<br>(CPS 328) | Conservation crop type                                                      | Brassica<br>Broadleaf<br>Cool season<br>Grass<br>Legume<br>Warm season                                             |
|                                         | Change implemented                                                          | Added perennial crop<br>Reduced fallow period<br>Both                                                              |
|                                         | Conservation crop rotation tillage type                                     | Conventional (plow, chisel, disk)<br>No-till, direct seed<br>Reduced till<br>Strip till<br>None<br>Other (specify) |
|                                         | Total conservation crop rotation length in days                             | 1-120                                                                                                              |
| Contour Buffer Strips (CPS 332)         | Strip width (feet)                                                          | 1-100                                                                                                              |
|                                         | Species category                                                            | Grasses<br>Forbs<br>Mix                                                                                            |
| Cover Crop (CPS 340)                    | Species category (select most common/extensive type if using more than one) | Brassicas<br>Forbs<br>Grasses<br>Legume<br>Non-legume broadleaves                                                  |
|                                         | Cover crop planned management                                               | Grazing<br>Haying<br>Termination                                                                                   |
|                                         | Cover crop termination method                                               | Burning<br>Herbicide application<br>Incorporation<br>Mowing<br>Rolling/crimping<br>Winter kill/frost               |
|                                         |                                                                             |                                                                                                                    |
| Critical Area Planting (CPS 342)        | Species category (select most common/extensive type if using more than one) | Grass<br>Grass legume/forb mix<br>Herbaceous woody mix<br>Perennial or reseeding<br>Shrubs<br>Trees                |
|                                         |                                                                             |                                                                                                                    |
| Feed Management (CPS 592)               | Crude protein (percent)                                                     | 0-100                                                                                                              |
|                                         | Fat (percent)                                                               | 0-100                                                                                                              |
|                                         | Feed additives/supplements                                                  | Chemical<br>Edible oils/fats<br>Seaweed/kelp<br>Other (specify)                                                    |
|                                         |                                                                             |                                                                                                                    |
| Field Border (CPS 386)                  | Species category (select most common/extensive type if using more than one) | Forbs<br>Grasses<br>Mix<br>Shrubs                                                                                  |
|                                         |                                                                             |                                                                                                                    |



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



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



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



|                                        |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste Separation Facility<br>(CPS 632) | Separation type                                                         | Chemical (e.g., salts, polymers)<br>Mechanical (e.g., screens, presses)<br>Settling basin                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                        | Most common use of solids                                               | Bedding<br>Field applied<br>Other (specify)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Waste Storage Facility (CPS<br>313)    | Waste storage system prior to<br>installing your waste storage facility | Aerobic lagoon<br>Anaerobic digester (complex mix) with<br>energy generation<br>Anaerobic digester (plug flow) with<br>energy generation<br>Anaerobic lagoon<br>Composting<br>Covered lagoon (no energy generation<br>or flaring)<br>Covered lagoon with energy generation<br>Covered lagoon with flaring<br>Daily spread<br>Deep bedding pack<br>Deep pit<br>Dry lot<br>Dry stacking/solid storage<br>Pasture/range/paddock<br>Poultry with bedding<br>Poultry without bedding (e.g., high rise)<br>Slurry tank/basin |
|                                        |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Waste Treatment (CPS 629)              | Treatment type                                                          | Biological<br>Chemical<br>Mechanical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                        |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Waste Treatment Lagoon<br>(CPS 359)    | Waste storage system prior to<br>installing waste treatment lagoon      | Aerobic lagoon<br>Anaerobic digester (complex mix) with<br>energy generation<br>Anaerobic digester (plug flow) with<br>energy generation<br>Anaerobic lagoon<br>Composting<br>Covered lagoon (no energy generation<br>or flaring)<br>Covered lagoon with energy generation<br>Covered lagoon with flaring<br>Daily spread<br>Deep bedding pack<br>Deep pit<br>Dry lot<br>Dry stacking/solid storage<br>Pasture/Range/Paddock<br>Poultry with bedding<br>Poultry without bedding (e.g., high rise)<br>Slurry tank/basin |
|                                        |                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                        | Is there a lagoon cover/crust?                                          | Yes<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                        | Is there lagoon aeration?                                               | Yes<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |



## Partnerships for Climate-Smart Commodities Data Dictionary for Recipients

February 2023

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



February 2023

**Appendix A: Climate-smart Agriculture and Forestry Practices**All NRCS Practice Standards (not limited to climate-smart practices)

|                                                         |                                                                              |
|---------------------------------------------------------|------------------------------------------------------------------------------|
| 309, Agrichemical Handling Facility                     | 390, Riparian Herbaceous Cover                                               |
| 311, Alley Cropping                                     | 391, Riparian Forest Buffer                                                  |
| 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, Plain Concrete    |
| 332, Contour Buffer Strips                              | 428B, Irrigation Water Conveyance, Ditch and Canal Lining, Flexible Membrane |
| 333, Amending Soil Properties with Gypsum Products      | 428C, Irrigation Water Conveyance, Ditch and Canal Lining, Galvanized Steel  |
| 334, Controlled Traffic Farming                         | 430, Irrigation Pipeline                                                     |
| 336, Soil Carbon Amendment                              | 432, Dry Hydrant                                                             |
| 338, Prescribed Burning                                 | 436, Irrigation Reservoir                                                    |
| 340, Cover Crop                                         | 441, Irrigation System, Microirrigation                                      |
| 342, Critical Area Planting                             | 442, Sprinkler System                                                        |
| 345, Residue and Tillage Management, Reduced Till       | 443, Irrigation System, Surface and Subsurface                               |
| 348, Dam, Diversion                                     | 447, Irrigation and Drainage Tailwater Recovery                              |
| 350, Sediment Basin                                     | 449, Irrigation Water Management                                             |
| 351, Well Decommissioning                               | 450, Anionic Polyacrylamide (PAM) Application                                |
| 353, Monitoring Well                                    | 453, Land Reclamation, Landslide Treatment                                   |
| 355, Groundwater Testing                                | 455, Land Reclamation, Toxic Discharge Control                               |
| 356, Dike and Levee                                     | 457, Mine Shaft and Adit Closing                                             |
| 359, Waste Treatment Lagoon                             | 460, Land Clearing                                                           |
| 360, Waste Facility Closure                             | 462, Precision Land Forming and Smoothing                                    |
| 362, Diversion                                          | 464, Irrigation Land Leveling                                                |
| 366, Anaerobic Digester                                 | 466, Land Smoothing                                                          |
| 367, Roofs and Covers                                   | 468, Lined Waterway or Outlet                                                |
| 368, Emergency Animal Mortality Management              | 472, Access Control                                                          |
| 371, Air Filtration and Scrubbing                       | 484, Mulching                                                                |
| 372, Combustion System Improvement                      | 490, Tree/Shrub Site Preparation                                             |
| 373, Dust Control on Unpaved Roads and Surfaces         | 500, Obstruction Removal                                                     |
| 374, Energy Efficient Agricultural Operation            | 511, Forage Harvest Management                                               |
| 375, Dust Management for Pen Surfaces                   | 512, Pasture and Hay Planting                                                |
| 376, Field Operations Emissions Reduction               | 516, Livestock Pipeline                                                      |
| 378, Pond                                               | 520, Pond Sealing or Lining, Compacted Soil Treatment                        |
| 379, Forest Farming                                     | 521, Pond Sealing or Lining, Geomembrane or Geosynthetic Clay Liner          |
| 380, Windbreak/Shelterbelt Establishment and Renovation | 521A, Pond Sealing or Lining, Flexible Membrane                              |
| 381, Silvopasture                                       | 521B, Pond Sealing or Lining, Soil Dispersant                                |
| 382, Fence                                              | 521C, Pond Sealing or Lining, Bentonite Sealant                              |
| 383, Fuel Break                                         |                                                                              |
| 384, Woody Residue Treatment                            |                                                                              |
| 386, Field Border                                       |                                                                              |
| 388, Irrigation Field Ditch                             |                                                                              |



|                                                        |                                                                 |
|--------------------------------------------------------|-----------------------------------------------------------------|
| 521D, Pond Sealing or Lining, Compacted Clay Treatment | 632, Waste Separation Facility                                  |
| 522, Pond Sealing or Lining - Concrete                 | 633, Waste Recycling                                            |
| 527, Sinkhole Treatment                                | 634, Waste Transfer                                             |
| 528, Prescribed Grazing                                | 635, Vegetated Treatment Area                                   |
| 533, Pumping Plant                                     | 636, Water Harvesting Catchment                                 |
| 543, Land Reclamation, Abandoned Mined Land            | 638, Water and Sediment Control Basin                           |
| 544, Land Reclamation, Currently Mined Land            | 640, Waterspreading                                             |
| 548, Grazing Land Mechanical Treatment                 | 642, Water Well                                                 |
| 550, Range Planting                                    | 643, Restoration of Rare or Declining Natural Communities       |
| 554, Drainage Water Management                         | 644, Wetland Wildlife Habitat Management                        |
| 555, Rock Wall Terrace                                 | 645, Upland Wildlife Habitat Management                         |
| 557, Row Arrangement                                   | 646, Shallow Water Development and Management                   |
| 558, Roof Runoff Structure                             | 647, Early Successional Habitat Development-Mgt                 |
| 560, Access Road                                       | 649, Structures for Wildlife                                    |
| 561, Heavy Use Area Protection                         | 650, Windbreak/Shelterbelt Renovation                           |
| 562, Recreation Area Improvement                       | 654, Road/Trail/Landing Closure and Treatment                   |
| 566, Recreation Land Improvement and Protection        | 655, Forest Trails and Landings                                 |
| 570, Stormwater Runoff Control                         | 656, Constructed Wetland                                        |
| 572, Spoil Disposal                                    | 657, Wetland Restoration                                        |
| 574, Spring Development                                | 658, Wetland Creation                                           |
| 575, Trails and Walkways                               | 659, Wetland Enhancement                                        |
| 576, Livestock Shelter Structure                       | 660, Tree-Shrub Pruning                                         |
| 578, Stream Crossing                                   | 666, Forest Stand Improvement                                   |
| 580, Streambank and Shoreline Protection               | 670, Energy Efficient Lighting System                           |
| 582, Open Channel                                      | 672, Energy Efficient Building Envelope                         |
| 584, Channel Bed Stabilization                         | 736, Crop By-Product Transfer, interim                          |
| 585, Stripcropping                                     | 724, Water Treatment Facility, interim                          |
| 587, Structure for Water Control                       | 735, Waste Gasification Facility, interim                       |
| 588, Crosswind Ridges                                  | 737, Reduced Water and Energy Coffee Conveyance System, interim |
| 589, Cross Wind Trap Strips                            | 740, Pond Sealing and Lining, Soil Cement, interim              |
| 590, Nutrient Management                               | 751, Individual Terrace, interim                                |
| 591, Amendments for Treatment of Agricultural Waste    | 753, Infiltration Ditch, interim                                |
| 592, Feed Management                                   | 755, Well Plugging, interim                                     |
| 595, Pest Management Conservation System               | 770, Livestock Confinement Facility, interim                    |
| 600, Terrace                                           | 775, Drainage Ditch Covering, interim                           |
| 601, Vegetative Barrier                                | 782, Phosphorus Removal System, interim                         |
| 602, Equitable Relief                                  | 800, Controlling Existing Flowing Wells, interim                |
| 603, Herbaceous Wind Barriers                          | 803, Water Well Disinfection, interim                           |
| 604, Saturated Buffer                                  | 805, Amending Soil Properties with Lime, interim                |
| 605, Denitrifying Bioreactor                           | 808, Soil Carbon Amendment, interim                             |
| 606, Subsurface Drain                                  | 809, Conservation Harvest Management, interim                   |
| 607, Surface Drain, Field Ditch                        | 810, Annual Forages for Grazing Systems, interim                |
| 608, Surface Drain, Main or Lateral                    | 812, Raised Beds, interim                                       |
| 609, Surface Roughening                                | 815, Groundwater Recharge Basin or Trench, interim              |
| 610, Salinity and Sodic Soil Management                | 817, On-Farm Recharge, interim                                  |
| 612, Tree/Shrub Establishment                          | 818, Water Conservation System, interim                         |
| 614, Watering Facility                                 | 821, Low Tunnel Systems, interim                                |
| 620, Underground Outlet                                | 823, Organic Management, interim                                |
| 629, Waste Treatment                                   |                                                                 |
| 630, Vertical Drain                                    |                                                                 |



Other CSAF Practices

Traditional or cultural practices

Microbial products

Solar power generation

Grain bin construction

Pre-season drainage



February 2023

## 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  
CANEERRIES  
CANISTEL  
CANOLA  
CANTALOUPE  
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  
JUNEERRIES  
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              | STRAWBERRIES                |                     |
| PASSION FRUITS       | SUGAR BEETS                 |                     |
| PAWPAW               | SUGARCANE                   | <u>LIVESTOCK</u>    |
| PEACHES              | SUNFLOWERS                  | ALPACAS             |
| PEANUTS              | SUNN HEMP                   | BEEF COWS           |
| PEARS                | TANGELOS                    | BEEFALO             |
| PEAS                 | TANGERINES                  | BUFFALO OR BISON    |
| PECANS               | TANGORS                     | CHICKENS (BROILERS) |
| PENNYCRESS           | TANGOS                      | CHICKENS (LAYERS)   |
| PEPPERS              | TANNIER                     | DAIRY COWS          |
| PERENNIAL PEANUTS    | TARO                        | DEER                |
| PERIQUE TOBACCO      | TEA                         | DUCKS               |
| PERSIMMONS           | TEFF                        | ELK                 |
| PINE NUTS            | TI                          | EMUS                |
| PINEAPPLE            | TOBACCO CIGAR WRAPPER       | EQUINE              |
| PISTACHIOS           | TOBACCO BURLEY              | GEESE               |
| PITAYA/DAGONFRUIT    | TOBACCO BURLEY 31V          | GOATS               |
| PLANTAIN             | TOBACCO CIGAR BINDER        | HONEYBEES           |
| PLUMCOTS             | TOBACCO CIGAR FILLER        | LLAMAS              |
| PLUMS                | TOBACCO CIGAR FILLER BINDER | REINDEER            |
| POMEGRANATES         | TOBACCO DARK AIR CURED      | SHEEP               |
| POTATOES             | TOBACCO FIRE CURED          | SWINE               |
| POTATOES SWEET       | TOBACCO FLUE CURED          | TURKEYS             |
| PRUNES               | TOBACCO MARYLAND            |                     |
| PSYLLIUM             | TOBACCO VIRGINIA FIRE CURED |                     |
| PUMMELO              | TOMATILLOS                  |                     |
| PUMPKINS             | TOMATOES                    |                     |
| QUINCES              | TREES TIMBER                |                     |
| QUINOA               | TRITICALE                   |                     |
| RADISHES             | TRUFFLES                    |                     |
| RAISINS              | TURNIPS                     |                     |
| RAMBUTAN             | VETCH                       |                     |
| RAPESEED             | WALNUTS                     |                     |
| RHUBARB              | WAMPEE                      |                     |
| RICE                 | WASABI                      |                     |
| RICE SWEET           | WATERMELON                  |                     |
| RICE WILD            | WAX JAMBOO FRUIT            |                     |
| RUTABAGA             | WHEAT                       |                     |
| RYE                  | WILLOW SHRUB                |                     |
| SAFFLOWER            | WINTER MELON                |                     |
| SAPODILLA            | WOLFBERRY/GOJI              |                     |
| SAPOTE               | YAM                         |                     |
| SCALLIONS            |                             |                     |
| SESAME               |                             |                     |
| SHALLOTS             |                             |                     |
| SORGHUM              |                             |                     |
| SORGHUM DUAL PURPOSE |                             |                     |
| SORGHUM FORAGE       |                             |                     |
| SOYBEANS             |                             |                     |
| SPELT                |                             |                     |
| SQUASH               |                             |                     |
| STAR GOOSEBERRY      |                             |                     |

# 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

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 [www.usda.gov/climate-smart-commodities](http://www.usda.gov/climate-smart-commodities). USDA may determine that additional environmental and cultural resources review is needed for any particular action under Partnerships for Climate-Smart Commodities. The recipient must not execute any beneficiary contracts under this grant agreement prior to receipt of a letter from USDA that specifically details:

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

A resolution of support is required for projects on Tribal lands from the governing body of the Tribe with jurisdiction over that land, if the applicant is not the Tribe nor an entity owned or

operated by that Tribe. USDA may approve alternative documentation for resolutions when USDA deems necessary and legally sufficient.

#### **IV. Producer Benefits**

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

#### **V. Producer Data Protection and Disclosure**

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

#### **VI. Other Data and Reporting Requirements**

In addition to the reporting information provided in the statement of work and General Terms and Conditions, USDA will provide a template for the Detailed Progress Report, also known as the Partnerships for Climate-Smart Commodities (PSCS) Project Reporting Workbook. Within 30 calendar days of execution of this grant, a copy of this workbook will be posted at [www.usda.gov/climate-smart-commodities](http://www.usda.gov/climate-smart-commodities) 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 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 [www.usda.gov/climate-smart-commodities](http://www.usda.gov/climate-smart-commodities) 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:

- 1) 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.