

# NOTICE OF GRANT AND AGREEMENT AWARD

Award Identifying Number	2. Amendr	ment Number	3. Award /Project Per	iod	Type of award instrument:
NR233A750004G053			Date of final signat	ure -	Grant Agreement
AND THE WEST AND STATE OF THE STATE OF	L,		05/22/2028		
5. Agency (Name and Address)		<ol><li>Recipient Organiza</li></ol>	ation (Name	e and Address)	
			ARCHER-DANIELS	-MIDLAND	COMPANY ADM
USDA Partnerships for Climat			4666 FARIES PARI		
c/o FPAC-BC Grants and Agre 1400 Independence Ave SW,			DECATUR IL 6252	6	
Washington, DC 20250	1.00111 3230	,	UEI Number / DUNS	Number:	N1EULGPZUSK3 / 001307586
Direct all correspondence to F	PAC.BC.G	AD@usda.gov	EIN:		
7. NRCS Program Contact	8. NRCS A	Administrative	9. Recipient Program	3	10. Recipient Administrative
Halfing the medical control of the c	Co	ontact	Contact		Contact
Name: ERIC HANSEN	Name: AD	AM CARL	Name: Paul Scheetz		Name: Jill Bush
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11. CFDA	12. Author	ity	13. Type of Action		14. Program Director
10.937	15 USC 7	14 et seq	New Agreement	a	Name: Paul Scheetz
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15. Project Title/ Description: Expands climate-smart corn, soy, wheat and peanut markets in AL, AR, CO, FL, GA, IL, IN, IA, KS, KY, MI, MN, MO, MS, NE, ND, OH, OK,SD,TN,TX,WI. Supports implementation and monitoring of CS practices.					
16. Entity Type: Q = For-Profit	Organizatio	n (Other than Small B	usiness)		
GR99 - 75,754			Φ		
17. Select Funding Type					
Select funding type:		⋉ Federal		Non-Federal     ■     Non-Federal     Non-Federal	
Original funds total		90,000,000.00		47,603,701.00	
Temperature (1997) (199				U	
Additional funds total		\$0.00		\$0.00	
Grand total		90,000,000.00		47,603,701.00	
18. Approved Budget	-	:		į.	

Personnel	\$0.00	Fringe Benefits	\$0.00
Travel	\$0.00	Equipment	\$0.00
Supplies	\$0.00	Contractual	\$0.00
Construction	\$0.00	Other	90,000,000.00
Total Direct Cost	90,000,000.00	Total Indirect Cost	\$0.00
		Total Non-Federal Funds	47,603,701.00
		Total Federal Funds Awarded	90,000,000.00
		Total Approved Budget	137,603,701.00

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

Name and Title of Authorized Government Representative KATINA HANSON Acting Senior Advisor for Climate-Smart Commodities	Signature KATINA  Bigitally signed by KATINA HANSON  HANSON  Date: 2023.06.14 11:57:29 -06'00'	Date
Name and Title of Authorized Recipient Representative GREG MORRIS Senior Vice President	Signature	Date 6-8-2023

# 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 Archer-Daniels-Midland Company (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 \$137,603,701

TOTAL FEDERAL FUNDS \$90,000,000
PERSONNEL \$0
FRINGE BENEFITS \$0
TRAVEL \$0
EQUIPMENT \$0
SUPPLIES \$0
CONTRACTUAL \$0
CONSTRUCTION \$0
OTHER \$90,000,000 (includes PRODUCER INCENTIVES \$90,000,000)
TOTAL DIRECT COSTS \$90,000,000

TOTAL NON-FEDERAL FUNDS \$47,603,701
PERSONNEL \$4,831,314
FRINGE BENEFITS \$1,449,394.
TRAVEL \$0
EQUIPMENT \$0
SUPPLIES \$0
CONTRACTUAL \$0
CONSTRUCTION \$0
OTHER \$40,672,422 (includes PRODUCER INCENTIVES \$24,689,597)
TOTAL DIRECT COSTS \$46,953,130
INDIRECT COSTS \$650,571

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

#### Responsibilities of the Parties:

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

### RECIPIENT RESPONSIBILITIES

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

Ensure Paperwork Reduction Act (PRA) clearance is obtained prior to conducting data collection from producers or other

project participants, including data collection performed by subrecipients.

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

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

Performance Reports: Quarterly

SF425 Financial Reports: Quarterly

Detailed Progress Report: Quarterly

(The detailed progress report is in addition to the performance and financial reports referenced above and described in

the general terms and conditions)

# **Expected Accomplishments and Deliverables**

See attached Benchmarks Table and associated Project Narrative.

# Resources Required

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

#### Milestones

See attached Benchmarks Table and associated Project Narrative.

# **GENERAL TERMS AND CONDITIONS**

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

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

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#### ADM and Partners' Climate-Smart Solutions

### I. Executive Summary of Pilot Project

### Project Summary and Partners

Archer-Daniels-Midland Company (ADM) seeks \$90 million dollars in funding from the USDA Partnerships for Climate-Smart Commodities opportunity to launch a project that will financially incentivize commodity producers to employ climate-smart practices on approximately 2 million unique acres and over 6.15 million acres over five years. ADM and partners will contribute \$47.6 million dollars (of which \$24.7 million to be paid directly to producers with incentives) to bolster this effort through direct incentives and marketing campaigns for producers. ADM plans to engage downstream customers in the supply chain to invest in climate smart agriculture ingredients in the form of cost share. ADM will claim positive environmental benefits and allow downstream customers that fall in a different part of the supply chain to claim environmental benefits while following GHG protocol guidance for scope 3 emissions. The project income will be utilized as a cost sharing requirement in which it will be used to pay for the additional services set forth in our proposal. This project income will be applied to the ADM portion of the project. If the project income doesn't materialize, ADM will use its funds and not use USDA funds to offset it.

With USDA's support, ADM will activate the resources, partnerships, and customer relationships needed to expand existing climate-smart pilot projects into a successful climate-smart commodity supply chain. This project stands to benefit thousands of producers across the U.S. and, ultimately, to catalyze and transform the market for climate-smart commodities. ADM's five-year proposal will result in:

- Incentive payments for over 3,000 producers across 15+ states;
  - Year 1: 450 producers including 30 underserved producers
  - Year 2: 550 producers including 40 underserved producers
  - Year 3: 650 producers including 50 underserved producers
  - Year 4: 750 producers including 60 underserved producers
  - Year 5: 860 producers including 70 underserved producers
  - Total: 3,250 producers including 250 underserved producers
- Will specifically focus on black growers for enrollment in the underserved category
- Development of climate-smart corn, soy, wheat, and peanuts (supply-side);
- Development of 15 million metric tons of climate-smart agriculture products for food, fuel, feed, and export markets (demand-side);

 Greenhouse gas (GHG) reductions and removals of 1.8 million metric tons CO2 equivalent (Comet Planner 3.0 adjustments to impacts).

In addition to project lead ADM, partners include the following (\*underserved producer focus):

- · American Farmland Trust
- Costco
- DKY
- Ducks Unlimited
- EarthOptics
- Farmers Business Network (FBN)
- Field to Market
- Flint River Soil and Water Conservation District (FRSWCD)
- Food Works Group (FWG)\*

- Iowa State University (ISU)
- Kansas Association of Conservation Districts
- Keurig-Dr. Pepper
- Mid-America Biofuels/ARTCO
- National Black Growers Council (NBGC)\*
- Practical Farmers of Iowa (PFI)
- Purdue University
- University of Nebraska-Lincoln

# Compelling Need for the Project

ADM has a 120-year track record as a leader in value creation for agricultural supply chains. More recently, ADM has engaged partners to design and implement infrastructure for successful programs, including two award-winning Field to Market programs that offer solutions to end users looking to decarbonize their supply chains. ADM and its partners are ready to optimize and scale up these solutions through this funding opportunity. Scale is critical, as it will change climate-smart supply dynamics. Currently, companies looking for decarbonization solutions have to define project components, identify implementation partners, and engage technical expertise, which takes significant time. In addition, with every end user creating a different program, results are not comparative, and the true nationwide impact of these programs is difficult to measure. However, at scale, companies would be able to invest in already defined solutions immediately, accelerating climate benefits. ADM has vast supply chains and serves a broad array of end users providing a strong position from which to streamline and standardize a climate-smart commodity market approach.

Various incentive programs and pilots have shown promise in compensating commodity producers for the impact of climate-smart practices, whether through GHG emission reductions or CO2 sequestration. However, fragmented structures of data and impact measurement and valuation, as well as complex supply chains from commodity to end consumer, have made climate-smart commodity production difficult to implement at scale. A viable solution must:

<sup>&</sup>lt;sup>1</sup> Using COMET-Planner reduction and removal estimates across all regions where acres will be sourced.

- 1. Efficiently create value for producers,
- 2. Be attractive to buyers,
- 3. Maintain transparency throughout the supply chain, and
- 4. Generate measurable climate benefits.

Data Collection, Calculation, and Outcomes

Field-level data collection will yield the information needed to calculate Field to Market metrics, which include the following indicators:

- Biodiversity
- Energy use
- Greenhouse gas emissions
- Irrigated water use

- Land use
- Soil carbon
- Soil conservation
- Water quality

Soil carbon sequestration will be forecasted using COMET-Planner, and biogeochemical modeling will be used to quantify sequestration values from farmer data and soil sampling in conjunction with remote sensing.

Approach to Minimizing Data Collection Costs and Producer Barriers to Implementation

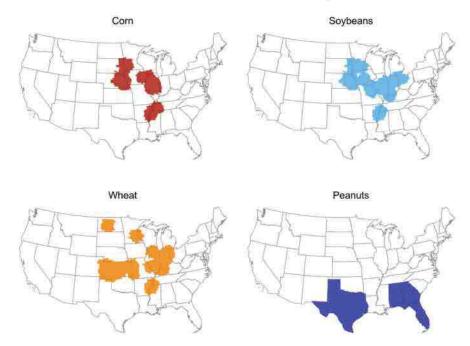
This project will work to reduce the costs of data collection and soil sampling through economies of scale and using the subset approach from Field to Market's 2019 "Framework for Evaluating Sampling Methodologies for Continuous Improvement Accelerator Projects and Associated Claims." Rather than collect complete field-level data from all producers on all acres, this project will use a representative subset of acres to gather, analyze, and report metrics for the program. Producers will be categorized by region, and the square root of the total number of participating producers in each region will be selected to enter field-level data for their operations. Project participants not selected for field-level data entry will complete a shortened questionnaire that identifies climate-smart practice adoption.

A similar approach will be used to identify fields for soil sampling, which will be used to benchmark and support the modeling results from USDA's COMET-Planner. This subset approach to a large-scale program will allow for more money to go directly into implementation of climate-smart practices and increase revenue at the farm level.

Geographic Focus, Crops, and Practices

Producers will be recruited in Alabama, Arkansas, Florida, Georgia, Illinois, Indiana, Iowa, Kansas, Missouri, Michigan, Minnesota, Nebraska, North Dakota, Ohio, Oklahoma, Tennessee, and Texas (see Figure 1).

Figure 1. Location Breakdown by Commodity. Each shaded area represents the counties or states where growers will be recruited to participate in the program. This typically represents a 50 mile radius around an ADM facility.



In year one, this project will focus on producers of corn, wheat, soy, cotton, and peanuts. Additional crops, such as flax, hemp, canola, pulses, cotton, and sorghum, will also be considered in future years. This range of crops will allow the project to impact not only a large number of acres and supply chains, but also a diverse population of producers.

Climate-smart practices to be employed include cover crop (legume and non-legume), reduced tillage, and nutrient management. These practices will be described in more detail in section II.

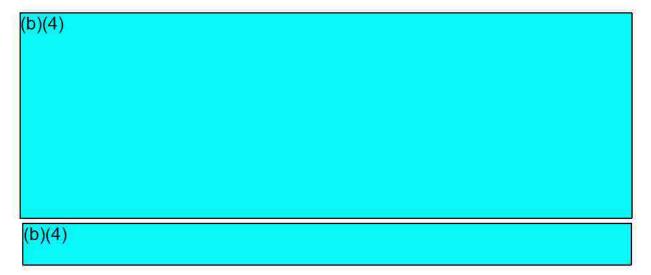
## Project Management Capacity

Project partners have extensive experience working with producers, as well as promoting and marketing climate-smart practices and impact. They include the following:

#### Project Lead - ADM

As a global leader in human and animal nutrition and the world's premier agricultural origination and processing company, ADM has the market access and power to make a profound impact on climate-smart commodities. ADM's breadth, depth, insights, facilities, and logistical expertise from over a century in business provide unparalleled capabilities to meet needs for food, beverages, fuel, and more.

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# Measuring, Monitoring, Reporting, Verifying (MMRV) Lead - Farmers Business Network (FBN)

Founded in 2014, FBN believes that when producers share digital information with one another, they can make better decisions. FBN Sustainability, in place since 2017, is built on that same premise: enable producers to make data-driven conservation decisions that improve environmental outcomes while enhancing their businesses by increasing the value of climate-smart commodities. FBN will use their best-in-class technology to collect, process, and validate data and flow crop-production attributes and environmental outcomes from the field level down the supply chain to ADM and end users. FBN will use a combination of COMET-Planner for forecasting, Field to Market for emissions, and biogeochemical modeling for sequestration to quantify environmental impacts of climate-smart practices. FBN will also collect a preponderance of soil data and practice data with the express purpose of verifying and extending existing environmental models.

# Technical Assistance (TA) Leads - Flint River Soil and Water Conservation District (FRSWCD) and Practical Farmers of Iowa (PFI)

ADM will work with several TA providers to provide on-the-ground support in each region and reduce producers' barriers to adoption. FRSWCD has a strong track record of working with producers in the southern US to adopt climate-smart agriculture practices. FRSWCD will lead technical assistance in Georgia and will assist in identifying similar technical assistance partners in Alabama, Arkansas, Florida, Tennessee, and Texas.

In the Midwest, PFI will lead TA in Iowa, Illinois, Nebraska, and Missouri. Final approval is in process for additional TA in the Midwest through partnerships with American Farmland Trust (Illinois), Kansas Association of Conservation Districts, Minnesota Soil Health Council, and Ducks Unlimited (Indiana and Michigan), who have been engaged through the Midwest Cover Crop initiative. This initiative, a partnership of ADM, the National Fish and Wildlife Foundation (NFWF), and the National Resources

Conservation Service (NRCS), will expand technical assistance partnerships across the Midwest to build the capacity for large-scale climate-smart programs.

# Climate-Smart Commodity Buyers - Keurig-Dr. Pepper, Costco, Mid-America Biofuels/ARTCO

These commodity buyers are major buyers in the food, feed and retail, and fuel industries, respectively. All will purchase climate-smart agricultural products over the course of this project, and these purchases will contribute to premiums for producers through a cost sharing program, thereby supporting long-term sustainability.

# University Research - Purdue University, University of Nebraska, Iowa State University (ISU)

Universities will conduct research on the soil in farm systems that adopt carbon sequestration practices, with the goal of identifying early indicators that can reduce the need for expensive soil sampling methods. Universities will create a panel that will coordinate with ADM on findings.

Underserved Producer-Focused Project Partners and Experience

- Underserved Producer Engagement Lead Food Works Group (FWG)
   FWG is a women-led food systems advisory firm that brings experience in underserved producer engagement and food systems equity work. They will lead the project's overall strategy to engage and support underserved producers.
- Underserved Producer Outreach Lead National Black Growers Council (NBGC)
  As an organization whose mission is to improve the efficiency, productivity, and
  sustainability of Black row crop farmers, NBGC brings trusted relationships with Black
  commodity producers. ADM and NBGC identified more than 188 Black producers within
  the states mentioned in this proposal and will work to recruit as many as possible. As part
  of their commitment to equity and accountability, ADM will report quarterly on progress
  in engaging Black producers through this opportunity.

### II. Plan to Pilot Climate-Smart Agriculture Practices: Achieving Supply-Side Scale

The ability to recruit, train, and incentivize producers to adopt climate-smart agriculture practices is a strength of ADM, and of partners FBN and PFI. ADM buys directly from over 55,000 producers each year in the U.S. alone, while FBN's producer network is over 30,000 strong. Having implemented successful ADM climate-smart pilot programs over the past decade, ADM is prepared to manage a project that reaches an estimated 3,000 producers and 6.5 mil (cumulative) acres by year five (2 mil unique acres in year 5).

## Description of Climate-Smart Agriculture Practices to Be Deployed

Climate-smart practices to be employed include the following:

- Cover crops, which include both legumes and non-legumes Benefits include preventing
  erosion and nutrient runoff; improving soil microbial activity; and increasing soil waterholding capacity and soil organic matter. Cover crops increase soil organic carbon in
  several ways. While growing, they pull CO2 from the atmosphere and convert it to
  biomass, and after termination, the plant residue and roots decompose into soil organic
  matter. In addition, the improvements to soil structure provided by the root systems of the
  cover crop help prevent soil organic carbon loss.
- Reduced tillage, which includes decreasing or eliminating tillage passes Benefits include improving soil structure and lowering bulk density, improving water filtration and drainage, enhancing retention of plant-available water, reducing nutrient leaching, improving microbiological activity, increasing organic matter and soil carbon, and reducing machinery emissions. The oxidation that follows conventional tillage leads to soil organic carbon loss. Reduce tillage protects carbon stocks by avoiding the soil structure disruptions of intense tillage practices that lead to soil disintegration and nutrient loss.
- Nutrient management, which includes minimizing excess nutrients, optimizing
  applications for yield goals, using nitrogen inhibitors, employing precision application,
  managing timing of applications, and utilizing alternatives to synthetic inputs Benefits
  of nutrient management include reduced runoff, protection of long term soil health and
  lower field emissions.

This project will include the following crops:

- Year 1: corn, soy, wheat, peanuts, and cotton
- Years 2 5: continue corn, soy, wheat, cotton, and peanuts, and add flax, hemp, canola, pulses, edible beans, and sorghum

This mix of crops allows the project to incentivize the expansion of climate-smart agriculture across diverse farm operations; enhance markets for emerging, less-carbon intensive crops; reach diverse producers across the U.S., including small and underserved producers; and create a streamlined, standardized incentive approach across commodity markets. Beginning in year two, baseline data will be collected from producers in the additional crops to understand the need and opportunity for impact. Based on these findings, the additional crops will be made eligible for incentives, and Field to Market will integrate edible beans and flax into the Fieldprint Calculator.

### New Comet Planner 3.0 estimates

- GHG savings reduced mostly due to new comet planner estimates
- Total Acreage dropped 14% from original proposal due to higher allocation to larger impacted practices like cover crops. Larger amount of cover crops increase the cost per acre but support getting closer to original impact target.

	mMT CO2e
Total CO2e reductions (GREET)	2.15
Total CO2e reductions (COMET)	1.79
\$/MT CO2e	\$69

<b>Project P</b>	<b>Parameters</b>
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	Total Acres	Total Farms
Year 1	500,000	450
Year 2	750,000	550
Year 3	1,200,000	650
Year 4	1,700,000	750
Year 5	2,000,000	850
Total	6,150,000	3250

## Plan for Outreach, Recruitment, Technical Assistance, and Training

Across the targeted states and crops, ADM will focus recruitment efforts at approximately 30 facilities, each of which represents a set of relationships between grain buyers and producers. As a supply chain initiative, these facilities are a key component of this project's recruitment strategy. Certain facilities, like ADM's Memphis facility, will specifically tailor recruitment activities to Black farmers or other underserved producer groups.

Producer outreach and recruitment activities will be shared among multiple project partners, including ADM, FBN, PFI, and NBGC, as each partner brings their own strengths, networks, and trusted producer relationships. ADM engages its network of U.S producers through multiple pathways, including in-person events and print and digital communications, allowing them to drive awareness, provide education, and support implementation. ADM has retained the services of a professional marketing firm who will utilize their expertise, including in-depth research into producer perspectives on farm sustainability within ADM's network, to develop messaging strategies and manage an ongoing outreach campaign. FBN, PFI, other TA partners, and NBGC will also tap into their networks for outreach and recruitment.

Onboarding and data collection will be as streamlined as possible since sharing data can be a sensitive and onerous proposition for producers. Beyond onboarding, producers will be able to utilize that same trusted point of contact for technical assistance and training. ADM, FBN, and PFI all have TA providers who can support producers through the initial and ongoing implementation of climate-smart practices. ADM and its program partners will also coordinate efforts with local NRCS locations in the focus regions. Finally, ADM will convene climate-smart education days across project regions that bring together producer peer networks and subject matter experts to learn from each other's experiences and share current best practices. Each of the 30 locations will host an education day during each year of the project.

### Plan to Provide Financial Assistance for Climate-Smart Practices

Adoption of climate-smart practices has been slow due to real and perceived risks. Implementing cover crops, for example, may result in a yield decrease in the first year or two. In addition, lack of technical expertise and experience can inhibit adoption. To overcome these hurdles, this project will provide not only technical assistance, but also financial assistance. Incentive payments will offset risks or costs associated with climate-smart practice adoption.

Producers who comply with all MMRV requirements to track and report their climate-smart practices will be paid a premium, which will be on a per acre basis in years one and two. Premiums will range from \$12 - \$36/acre and be determined by modeled emissions reductions and carbon sequestration per crop and practice(s). Incentive payments will offset risks or costs associated with climate-smart practice adoption. The multi-year approach allows producers to recognize the co-benefits to soil health and cost savings.

## Plan to Enroll and Engage Underserved Producers

With the support of underserved producer-focused project partners, including FWG and NBGC, ADM will develop an equity-oriented approach aimed at robust participation of producers from these groups, ensuring they are able to participate in premium programs. Critically, acknowledging that Black producers have been systematically disadvantaged compared to majority producers, this project has designated to target a minimum of 7% of underserved producers

The National Black Growers Council (NBGC) will lead underserved producer outreach and recruitment, building off of their national network of Black commodity producers and ADM's existing relationships with underserved producers at several locations (b)(4)

(b)(4)

To ensure cohesion, shared goals, and effective progress, FWG will lead the project's efforts to equitably and inclusively engage underserved producers across all crops, regions, and partners. FWG will work with NBGC and other partners to support and enhance outreach and education for underserved producers. FWG will also identify additional partners who align with project goals and manage the network of project partners to build community and facilitate conversations around equity goals for climate-smart commodity production. With the guidance of an advisory team, FWG will develop a strategic diversity, equity, and inclusion (DEI) plan to address barriers for underserved farmers to full participation in climate-smart agriculture. FWG will manage plan implementation, track execution, and help navigate and solve potential obstacles. In collaboration with partners, FWG will develop methods and metrics to measure the project's value creation for underserved producers across multiple domains, such as awareness and understanding of climate-smart commodity production, access to knowledge capital, and the impact of climate-smart production on their farm enterprises.

# III. Plan to Measure, Monitor, Report, and Verify Impact: Generating Real Climate Benefits

In addition to encouraging climate-smart agriculture at scale across a diverse range of commodities and producers, a key goal of this project is to measure, monitor, report, and verify (MMRV) climate benefits through a low-cost, high-integrity approach. FBN will lead all MMRV activities for this project, with university partners contributing valuable research and validation.

## Approach to Greenhouse Gas Benefit Quantification

FBN takes a model-agnostic approach to collecting, validating, and analyzing verifiable data at the field and subfield level. For the purposes of this project, FBN will use COMET-Planner for forecasting sequestration and emissions reductions for combinations of practices included in that system, and Field to Market for quantifying emissions with production data. Biogeochemical modeling in conjunction with remote sensing will be used as well, per guidelines from USDA's

Quantifying Greenhouse Gas Fluxes in Agriculture and Forestry: Methods for Entity-Scale Inventory, GHG Protocol, and Science Based Target Initiative, especially as they pertain to sequestration calculations. These models match the diversity of crops and practices to be incentivized through this project.

FBN and EarthOptics will also lead a heavy soil sampling exercise to add to, improve, and extend current modeling efforts. Using guidance from recent soil carbon mapping literature, a stratified sampling plan will be employed to efficiently capture sites across geographies in the first year. Over each following year, a portion of samples will be dedicated to resampling previous locations, while additional samples will be allocated to new geographies. Resampled locations will provide data for model validation as well as understanding the temporal changes in soil carbon stocks from climate-smart practices. We expect these samples to substantially improve our ability to model outcomes through fusion of remote sensing and biogeochemical models. Additionally, EarthOptics will collect in-situ vehicle sensor readings and use proprietary machine learning algorithms to train a model on a representative set of measurements. That model will then be used to interpret large areas using low-cost data from farm vehicles and remote sensing platforms.

# Approach to Monitoring Practice Implementation

Data will be collected from each farm in the program. FBN's proprietary data ingestion technology integrates with cloud systems to pull, organize, and analyze machine data automatically, while having the flexibility to process different formats of non-machine data that will come from the diverse farm businesses in the program. Before analyzing and quantifying outcomes, FBN reviews data to ensure high quality. Validation encompasses all activities that provide confidence that the data is accurate. This process includes but is not limited to:

- Validating yield outcomes against over 300 million acre-events of real-world farm data submitted by producer members,
- Utilizing satellite imagery and computer vision to identify anomalies and inconsistencies (including confidence in cover cropping and tillage activities), and
- Evaluating confidence in nutrient activities using multiple university models and public standards.

FBN's data science models capture 90 percent of cover crop detection errors, while yield expectations are 85 percent accurate.

#### Approach to Verification of Greenhouse Gas Benefits

This project aims to demonstrate how sampling can be incorporated into modeling to balance claim credibility and cost at scale. By leveraging FBN's data expertise, the sheer volume of data collected, several well-respected models, and strategically targeted full-farm quantification and soil sampling, this project will minimize MMRV cost and maximize value flowing to producers.

Data will be collected from all farms via a production survey, with quantified GHG outcomes assigned based on the mix of crops and practices. Surveys will also include attestation from producers that payments are not provided to a producer or land owner for the same production practice or system implementation on the same land for which the producer or land owner has already received, or is contracted to receive, funding through another USDA program, though enhancements to existing practices may be funded as part of these pilot projects. A subset of producers will also participate in a more detailed data collection process on all of their fields to validate and complement modeling. Then, a smaller subset of three to five percent of producers will undergo soil sampling. Finally, a select five to seven producers in each of three states (fifteen to twenty total) will be selected in year one for highly detailed environmental data collection and analysis over all five years of the project through university research partners University of Nebraska-Lincoln, Iowa State University, and Purdue University. The primary purpose of this research will be to look for early climate impact indicators that could be used for verification in place of robust and costly soil sampling. University research will also help to qualify and quantify environmental co-benefits, such as enhanced water quality and reduced erosion, from climate-smart practices.

Agreement to Participate in USDA Partnerships Network

If awarded this grant, project lead ADM agree	ees to participate in the USDA Partnerships for
Climate-Smart Commodities Learning Netw	
(b)(4)	

# IV. Plan to Develop and Expand Markets: Unlocking Demand and Communicating Value

Partnerships to Market Climate-Smart Commodities

ADM will work with end users to support their sustainability goals and cultivate robust markets for climate-smart commodities. ADM's end users include anchors in the food, feed and retail, and fuel industries. Key market partners supporting this project include the following:

- Keurig-Dr. Pepper (Food)
- Costco (Feed)
- Mid-America Biofuels/ARTCO (Fuel)

ADM will create a market that differentiates climate-smart commodities by establishing cost sharing opportunities for these end users to receive the benefits of a lower carbon supply chain. Climate-smart products will be created over the duration of the project, beginning with simple per acre payments in years one and two and established as a cost share to reduce costs for early adopting end users.

Marketing will help end users understand and communicate the value of the climate-smart products Current demand for climate-smart commodities from food, feed, and industrial

companies is driven largely by individual companies' scope 3 GHG reduction commitments, and their ability to meet those commitments hinges on finding sufficient, reliable climate-smart supply chains through supplier partners. Then those companies must rely on their own marketing efforts and influence to tell the story of these products, which can be difficult since consumer awareness of climate-smart agriculture is low.

ADM's proposal has the ability to be multi-dimensional in providing solutions for all end users of agricultural products, including renewable fuels. Variable feedstock scoring for fuel is a huge opportunity to further reduce carbon intensity of fuel consumed and produced. Renewable fuels have been a key part of ADM's business since ethanol production began in 1978, followed by biodiesel production in 2006.

This project's end goal is to develop programs that have real impact on end users' climate commitments, creating sustainable market creation and funding for climate-smart practices past the five year duration of proposal. By helping to solidify, standardize, and expand climate-smart commodities, it will allow companies to create climate-smart consumer marketing, reduce their scope 3 emissions from the agricultural products in their supply chains, and capitalize on future development of variable feedstock scoring for field level practices. ADM is already building the groundwork for consumer education and marketing both in-house and with marketing partners due to the increased interest from end users to stand up climate-smart programs.

# Estimated Economic Benefits for Participating Producers

Premiums will range from \$12 - \$36/acre depending on expected emissions reductions and carbon sequestration per crop and practice(s). ADM and TA partners will work with producers to minimize implementation costs over and above the incentive payment, as well as to maximize cost savings from climate-smart practices. Cost savings could result from reduced herbicide and fertilizer use and fuel savings. Direct incentives combined with cost reductions will lead to increased profitability at the farm level and ongoing climate-smart practice adoption.

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This climate-smart agriculture proposal has the opportunity to similarly expand opportunities for U.S. commodities across multiple sectors around the world. ADM has received dozens of requests to provide climate-smart solutions to end users. By working with Keurig-Dr. Pepper, Costco, ARTCO, and others, ADM will advance the adoption of premiums for climate-smart commodities and create sustainability beyond this funding opportunity. In addition, ADM will further accelerate the development of climate-smart markets across supply chains by leveraging third party marketing support.

	2023	2024	2025
Benchmarks:		Sept Dec	March June Sept Dec
Required Quantitative Targets by Quarter [Cumulative] – some initial quarters may be zero:			
Number of producers involved	50 250 450	450 500 550	250 600 650
Number of underserved producers involved Number of acres involved	30	30 35 40	750 000 950 000 1200 000
Dollars provided to producers			
GHG Benefits (Metric Tons of CO2e Reduced or Sequestered)		178,500	267,750
Number of new marketing channels established Number of marketing channels expanded		m pr	uo uo
Number of measurement tools utilized		<b>1</b> 885	t
Other Required Benchmarks that may be quantitative or qualitative:			
	At the end of April ADM and Technical Assistance partners will align with recruiting efforts and		At the end of April ADM and Technical Assistance partners will
Outreach, training and other technical assistance	education to farmers. The two biggest components will include farmer consultations with farmers and at least one education event held by TA partners	education to farmers. The two biggest components will include farmer consultations with farmers and at least one education event held by TA partners per	align with recruiting efforts and education to farmers. The two biggest components will include farmer consultations with farmers and at least one education event held by TA partners
	per year. Number of consultations per quarter can be reported but would prefer annually.	year. Number of consultations per quarter can be reported but would prefer annually.	per year. Number of consultations per quarter can be reported but would prefer annually.
	Farmers will be enrolled and contracted throughout the year. As farmers get enrolled FBN will start	Farmers will be enrolled and contracted throughout the year. As farmers get enrolled FBN will start	Farmers will be enrolled and contracted throughout the year.
Other MMRV and supply chain traceability attributes.	collecting field level data for scoring right away. A Soil sampling plan will be created to be executing in	collecting field level data for scoring right away. A Soll sampling plan will be created to be executing in the	As farmers get enrolled FBN will start collecting field level data for scoring right away. A Soil sampling plan will be created to
	then EBN will do an analysis of impacts that will be delivered by March of the following year. Number	fall of every year. After that yields are realised their FBN will do an analysis of impacts that will be delivered by March of the following year. Number of	.T. 10
	of farmers that field level data was collected can be reported quarterly but would prefer annually.	farmers that field level data was collected can be reported quarterly but would prefer annually.	
		Windowski Aldowski (Aldowski) spolecki (Aldows	In Child Comments (Comments of Comments of
	presentations to downstream customers about positive impacts of climate smart commodities.	ADM will engage supply chain and give presentations to downstream customers about positive impacts of	ADM will engage supply chain and give presentations to
Other measurements of work related to marketing of commodities	When customer signs up for program it will be reported to USDA as a new market. All work at the	climate smart commodities. When customer signs up for program it will be reported to USDA as a new	, is
	farm will be in the US but markets will be created domestically and for export that covers food, fuel,	market. All work at the farm will be in the US but markets will be created domestically and for export	will be reported to USDA as a new market. All work at the farm will be in the US but markets will be created domestically
	feed, and industrial products. New markets created	that covers food, fuel, feed, and industrial products.  Now markers created can be renoted quarterly but	and for export that covers food, fuel, feed, and industrial
	reporting	would prefer annual reporting.	-
Demonstrated engagement of major partners	Each year will start off with a kick off meeting with all partners and roles assigned. Then we will have	Each year will start off with a kick off meeting with all partners and roles assigned. Then we will have	Each year will start off with a kick off meeting with all
	quarterly check ups about work that has been done		part
	with all partners.	with all partners.	ups about work that has been done with all partners.

	2026	202	2028 Totals	s
Denominarys.  Required Quantitative Targets by Quarter (Cumulative) – some initial quarters may be zero:	Marcii, Juine Joppi	1440	Makes	
Number of producers involved  Number of underserved producers involved  Number of acres involved  Dollars provided to producers  GHG Benefits (Metric Tons of CO2e Reduced or Sequestered)  Number of new marketing channels extabilished  Number of measurement tools utilized	650 700 750 50 55 60 1,200,000 1,400,000 1,700,000 428,400 9	750 805 860 60 65 70 1,700,000 1,850,000 2,000,000 606,900 112	\$ 29,580,420 \$ 714,000 15	3,260 250 6,150,000 90,000,000 2,195,550 30
Other Required Benchmarks that may be quantitative or qualitative:				
Outreach, training and other technical assistance	At the end of April ADM and Technical Assistance partners will align with recruiting efforts and education to farmers. The two biggest components will include farmer consultations with farmers and at least one education event held by TA partners per year. Number of consultations per quarter can be reported but would prefer annually:	At the end of April ADM and Technical Assistance partners will align with recruiting efforts and education to farmers. The two biggest components will include farmer consultations with farmers and at least one education event held by TA partners per year. Number of consultations per quarter can be reported but would prefer annually.	March of 2028 will only be reporting of the work done in 2027	
Other MMRV and supply chain traceability attributes	Farmers will be enrolled and contracted throughout the year. As farmers get enrolled BN will start collecting field level data for scoring right away. A Soil sampling plan will be created to be executing in the fall of every year. After final yields are realized then FBN will do an analysis of impacts that will be delivered by March of the following year. Number of farmers that field level data was collected can be reported quarterly but would prefer annually.	Farmers will be enrolled and contracted throughout the year. Farmers will be enrolled and contracted throughout the year. Farmers get enrolled and contracted throughout the year. For scoring right away. A Soil sampling plan will secreated to for scoring right away. A Soil sampling plan will be created to be executing in the fall of every year. After final yields are realized then FBW will do an analysis of impacts that will be realized then FBW will do an analysis of impacts that will be delivered by March of the following year. Number of farmers that field level data was collected can be reported quarterly but would prefer annually.	March of 2028 Will only be reporting of the work done in 2027.	
Other measurements of work related to marketing of commodities	ADM will engage supply chain and give presentations to downstream customers about positive impacts of climate smart commodities. When customer signs up for program it will be reported to USDA as a new market. All work at the farm will be in the US but markets will be created domestically and for export that covers food, fuel, feed, and industrial products. New markets created can be reported quarterly but would prefer annual reporting.	ADM will engage supply chain and give presentations to downstream customers about positive impacts of climate active commodities. When customer signs up for program it will be reported to USDA as a new market. All work at the farm will be in the US but markets will be created domestically and for export that covers food, fuel, feed, and industrial products. New markets created can be reported quarterly but would prefer annual reporting.	n March of 2028 will only be reporting of the work done in 2027. March of 2028	
Demonstrated engagement of major partners	Each year will start off with a kick off meeting with all partners and roles assigned. Then we will have quarterly check ups about work that has been done with all partners.	Each year will start off with a kick off meeting with all partners and roles assigned. Then we will have quarterly check partners and roles assigned. Then we will have quarterly check ups about work that has been done with all partners.		

# **Climate-Smart Practices and Limitations**

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

NRCS Practice Code	Practice Name
329	Residue and Tillage Management, No-Till
340	Cover Crop
345	Residue and Tillage Management, Reduced Till
590	Nutrient Management
595	Pest Management Conservation System

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

N/A



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 (CO2e) emission reductions	Quarterly
Cumulative carbon stock	Whole project estimate of total carbon sequestration	Quarterly
Cumulative CO2 benefit	Whole project estimate of total CO2 emission reductions	Quarterly
Cumulative CH4 benefit	Whole project estimate of total CH4 emission reductions	Quarterly
Cumulative N2O benefit	Whole project estimate of total N2O emission reductions	Quarterly
Offsets produced	Amount of carbon offsets produced by project	Quarterly
Offsets sale	Name of marketplace where carbon offsets were sold	Quarterly
Offsets price	Price of carbon in offset sales	Quarterly
Insets produced	Amount of carbon insets produced by project	Quarterly
Cost of on-farm TA	Cost of on-farm technical assistance (TA) provided to producers	Quarterly
MMRV cost	Cost of measurement, monitoring, reporting, and verification (MMRV) activities	Quarterly
GHG monitoring method	Methods used by project to monitor GHG benefits (up to 5)	Quarterly
GHG reporting method	Methods used by project to report on GHG benefits (up to 5)	Quarterly
GHG verification method	Methods used to verify GHG benefits (up to 5)	Quarterly

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#### 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

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

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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

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

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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

Data element name	Description	Frequency
Farm ID	Unique Farm ID assigned by FSA	2.02
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

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#### 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

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

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# 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

Data element name	Description	Frequency
Farm ID	Unique Farm ID assigned by FSA	240
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

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#### 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 CO2 ER	Official estimate of total CO2 emission reductions for field	Quarterly
Field official CH4 ER	Official estimate of total CH4 emission reductions for field	Quarterly
Field official N2O ER	Official estimate of total N2O emission reductions for field	Quarterly
Field offsets produced	Amount of carbon offsets produced in field	Quarterly
Field insets produced	Amount of carbon insets produced in field	Quarterly
Other field measurements	Indicator that field data was collected for reasons other than GHG benefit estimation	Quarterly

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#### 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

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#### Additional Environmental Benefits

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

Table 10. Additional Environmental Benefits elements

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

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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.

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#### **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	<b>Reporting question:</b> What climate-smart commodity types are produced by this project?
Description: Type of commodity incentivia	zed by the project. These commodities include those for whom
farmers are directly receiving incentives o	r other types of marketing support. See full list of commodity options
in Appendix B. List one commodity per ro	
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?
	ity(ies) related to project activities. If sales are reported, complete the
	s part of the quarterly performance report.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	• Yes
Later No. 10 Control of	• No
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Farms enrolled	
Data element name: Farms enrolled	<b>Reporting question:</b> Did the project enroll any producers or fields this quarter?
	rolled producers or fields. If enrollment activities occurred this quarter eld Enrollment worksheets (Tables 4 and 5) as part of the quarterly
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
measurement anner eucegory	• Yes
	• No
Logic: None - all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
GHG calculation methods	7695 39 (1933) (1935) (1935) (1935) (1935) (1935) (1935) (1935) (1935) (1935) (1935) (1935) (1935) (1935) (193 7695 39 (1935) (1935) (1935) (1935) (1935) (1935) (1935) (1935) (1935) (1935) (1935) (1935) (1935) (1935) (193
Data element name: GHG calculation	Reporting question: What methods is the project using to
methods	calculate GHG benefits?
Description: List the way(s) that GHG ben	efits are being measured and calculated by the project this quarter.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	<ul> <li>Models</li> </ul>
	<ul> <li>Direct field measurements</li> </ul>
	Dia 44
2 2 22 W V	Both
Logic: None – all respond  Data collection level: Project	Required: Yes  Data collection frequency: Quarterly

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GHG cumulative calculation

Data element name: GHG cumulative Reporting question: What method(s) was used to calculate the

calculation total cumulative GHG benefits reported here?

Description: List the method(s) that was used to calculate the total cumulative GHG benefits reported 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

**Cumulative GHG benefits** 

Data element name: Cumulative GHG Reporting question: What are the project's estimated total GHG

benefits emission reductions (CO2eq) to date?

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 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

Cumulative carbon stock

Data element name: Cumulative carbon Reporting question: How much carbon has the project

stock sequestered to date?

**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 CO2eq.

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

Cumulative CO2 benefit

Data element name: Cumulative CO2 Reporting question: What are the project's estimated total

benefit cumulative CO2 emission reductions to date?

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 Select multiple values: No

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

Logic: None – all respond Required: Yes

Data collection level: Project Data collection frequency: Quarterly

**Cumulative CH4 benefit** 

Data element name: Cumulative CH4 benefit Reporting question: What are the project's estimated total

CH4 emission reductions to date?

**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  $CH_4 = 25$  tons of  $CO_2$ eq.

Data type: Decimal Select multiple values: No

Measurement unit: Metric tons CH4 reduced in Allowed values: 0-10,000,000

CO<sub>2</sub>eq

Logic: None – all respond Required: Yes

Data collection level: Project Data collection frequency: Quarterly

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Cumulative N20 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  $N_2O = 298$  tons of  $CO_2eq$ .

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 CO2eq Allowed values: 0-10,000,000

Logic: None – all respond Required: Yes

Data collection level: Project Data collection frequency: Quarterly

Offsets sale

Data element name: Offsets sale Reporting question: To what marketplace(s) were carbon offsets

sold?

**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

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

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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

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#### 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

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#### Partner Activities

u	ln	ia	11	ρ	IC	) (

Partner ID Unique Project ID for each partner

Partner name

Data element name: Name of partner organization Reporting question: What is the official name of the

recipient or partner organization?

Description: Legal name of recipient or partner organization

 Data type: Text
 Select multiple values: NA

 Measurement unit: NA
 Allowed values: Text

 Logic: None – all respond
 Required: Yes

Data collection level: Partner Data collection frequency: Partnership initiation

Partner type

Data element name: Type of partner organization Reporting question: What type of organization is this?

Description: Legal/financial structure of recipient or partner organization

Data type: List Select multiple values: No

Measurement unit: Category Allowed values:

Commodity groups (501c5)

For-profitIndividualNonprofit

State or local agency

Tribal agencyUniversityRequired: Yes

Data collection level: Partner Data collection frequency: Partnership initiation

Partner POC

Logic: None - all respond

Data element name: Partner POC Reporting question: Who is the point of contact for

this project at the recipient or partner organization?

Description: Name of a point of contact for the recipient or partner organization

Data type: Text Select multiple values: NA

Measurement unit: NA Allowed values: Text

Logic: None – all respond Required: Yes

Data collection level: Partner Data collection frequency: Partnership initiation;

update as necessary

Partner POC email

Data element name: Partner POC email Reporting question: What is the point of contact's

email address?

Description: Email of the point of contact for the recipient or partner organization

Data type: Text Select multiple values: NA

Measurement unit: NA Allowed values: Text

Logic: None – all respond Required: Yes

Data collection level: Partner Data collection frequency: Partnership initiation;

update as necessary

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Partnership start date	
Data element name: Partnership start date	Reporting question: When did the partnership start?
Description: Date that the partner organization and	the recipient began formally partnering on the project
Data type: Date	Select multiple values: NA
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023 - 12/31/2030
Logic: No response for recipient	Required: Yes
Data collection level: Partner	Data collection frequency: Partnership initiation
Partnership end date	=
Data element name: Partnership end date	Reporting question: When did the partnership end?
Description: Date that the partner organization and	the recipient stopped formally partnering on the project
Data type: Date	Select multiple values: NA
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023 - 12/31/2030
Logic: No response for recipient	Required: Yes
Data collection level: Partner	Data collection frequency: Partnership end quarter
New partnership	
Data element name: New partnership	Reporting question: Is this a new partnership?
	prior to the partner organization have not had a formal
working relationship (under contract or on a grant)	prior to the start of the project.
working relationship (under contract or on a grant)   Data type: List	
working relationship (under contract or on a grant)	prior to the start of the project.  Select multiple values: No
working relationship (under contract or on a grant)   Data type: List	prior to the start of the project.  Select multiple values: No  Allowed values:  Yes  No
working relationship (under contract or on a grant)   Data type: List Measurement unit: Category	prior to the start of the project.  Select multiple values: No  Allowed values:  Yes  No I don't know
working relationship (under contract or on a grant)  Data type: List  Measurement unit: Category  Logic: No response for recipient	prior to the start of the project.  Select multiple values: No  Allowed values:  Yes  No  I don't know  Required: Yes
working relationship (under contract or on a grant)   Data type: List Measurement unit: Category	prior to the start of the project.  Select multiple values: No  Allowed values:  Yes  No I don't know
working relationship (under contract or on a grant)  Data type: List  Measurement unit: Category  Logic: No response for recipient  Data collection level: Partner  Partner total requested	prior to the start of the project.  Select multiple values: No  Allowed values:  Yes  No  I don't know  Required: Yes  Data collection frequency: Partnership initiation
working relationship (under contract or on a grant)  Data type: List  Measurement unit: Category  Logic: No response for recipient  Data collection level: Partner	prior to the start of the project.  Select multiple values: No  Allowed values:  Yes  No  I don't know  Required: Yes
Measurement unit: Category  Logic: No response for recipient  Data collection level: Partner  Partner total requested  Data element name: Partner total requested  Description: Cumulative (total) amount of funds that recipient from the start of the partnership to the en	Prior to the start of the project.  Select multiple values: No  Allowed values:  Yes  No  I don't know  Required: Yes  Data collection frequency: Partnership initiation  Reporting question: What is the total amount of funding the partner has requested to date from this project?  If the partner has requested reimbursement for from the dof the reporting quarter. For each quarter's data entry, the amount of funds requested in the reporting quarter. If
Data type: List  Measurement unit: Category  Logic: No response for recipient  Data collection level: Partner  Partner total requested  Data element name: Partner total requested  Description: Cumulative (total) amount of funds that recipient from the start of the partnership to the en value must be the sum of all previous entries plus the	Prior to the start of the project.  Select multiple values: No  Allowed values:  Yes  No  I don't know  Required: Yes  Data collection frequency: Partnership initiation  Reporting question: What is the total amount of funding the partner has requested to date from this project?  If the partner has requested reimbursement for from the dof the reporting quarter. For each quarter's data entry, the amount of funds requested in the reporting quarter. If
Measurement unit: Category  Logic: No response for recipient Data collection level: Partner  Partner total requested  Data element name: Partner total requested  Description: Cumulative (total) amount of funds that recipient from the start of the partnership to the envalue must be the sum of all previous entries plus the there are no changes, report the value from the pre-	Prior to the start of the project.  Select multiple values: No  Allowed values:  Yes  No  I don't know Required: Yes  Data collection frequency: Partnership initiation  Reporting question: What is the total amount of funding the partner has requested to date from this project?  If the partner has requested reimbursement for from the d of the reporting quarter. For each quarter's data entry, the amount of funds requested in the reporting quarter. If vious quarter.
Measurement unit: Category  Logic: No response for recipient  Data collection level: Partner  Partner total requested  Data element name: Partner total requested  Description: Cumulative (total) amount of funds that recipient from the start of the partnership to the envalue must be the sum of all previous entries plus the there are no changes, report the value from the predata type: Decimal	Prior to the start of the project.  Select multiple values: No  Allowed values:  Yes  No  I don't know Required: Yes  Data collection frequency: Partnership initiation  Reporting question: What is the total amount of funding the partner has requested to date from this project?  It the partner has requested reimbursement for from the d of the reporting quarter. For each quarter's data entry, the ne amount of funds requested in the reporting quarter. If vious quarter.  Select multiple values: NA

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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

Logic: None - all respond

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:

Faultanest

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

Required: Yes

Data collection level: Partner Data collection frequency: Quarterly

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Match amount

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

Allowed values: \$0-\$100,000,000 Measurement unit: Dollars

Required: Yes Logic: None - all respond

Data collection level: Partner Data collection frequency: Quarterly

Training type provided

Reporting question: What types of training has the Data element name: Training type 1-3 provided

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

Allowed values: Measurement unit: Category

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

Required: Yes

Data collection frequency: Quarterly Data collection level: Partner

Activity by partner

Logic: None - all respond

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

**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

**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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#### Marketing Activities

Commodity type

Data element name: Commodity type Reporting question: What type of commodity is produced by

the farmers enrolled in this project?

**Description:** 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.

Data type: List Select multiple values: No

Measurement unit: Category Allowed values: FSA commodity list

Logic: None – all respond Required: Yes

Data collection level: Project Data collection frequency: Quarterly

Marketing channel type

Data element name: Marketing channel Reporting question: What type of marketing channel is used to

ype sell this commodity?

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

Data type: List Select multiple values: No

Measurement unit: Category Allowed values:

Agricultural marketing board

Biorefinery

Commodity broker

Direct to consumer

Direct to institution

Direct to restaurant

Distributor (including grain elevators)

Food hub or cooperative

Food processor

Non-food byproducts processor

Retailer

USDA

Other (specify)

Logic: None – all respond Required: Yes

Data collection level: Project Data collection frequency: Quarterly

Number of buyers

Data element name: Number of buyers Reporting question: How many buyers are there in this

marketing channel?

**Description:** List the number of individual firms or buyers in this marketing channel.

Data type: Integer Select multiple values: No
Measurement unit: Count Allowed values: 1-500

Logic: None – all respond Required: Yes

Data collection level: Project Data collection frequency: Quarterly

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Names of buyers

Data element name: Names of buyers Reporting question: What are the names of all of the buyers in

this marketing channel?

Description: Provide the names of all buyers in this marketing channel. Separate each name with a comma.

Data type: Text Select multiple values: NA

Measurement unit: Name Allowed values: Text

Logic: None – all respond Required: Yes

Data collection level: Project Data collection frequency: Quarterly

Marketing channel geography

Data element name: Marketing channel Reporting question: What is the primary geography of the

geography marketing channel?

**Description:** 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.

Data type: List Select multiple values: No

Measurement unit: Category Allowed values:

LocalRegionalNationalGlobal

Logic: None – all respond Required: Yes

Data collection level: Project Data collection frequency: Quarterly

Value sold

Data element name: Value sold Reporting question: What is the value of the commodity sold in

this marketing channel?

Description: The dollar value of the commodity sold in this marketing channel this quarter (non-cumulative).

Data type: Decimal Select multiple values: No

Measurement unit: Dollars Allowed values: \$1-\$100,000,000

Logic: None – all respond Required: Yes

Data collection level: Project Data collection frequency: Quarterly

Volume sold

Data element name: Volume sold Reporting question: What is the volume of the commodity sold

in this marketing channel?

Description: The volume of the commodity sold in this marketing channel this quarter (non-cumulative).

Data type: Decimal Select multiple values: No

Measurement unit: Number Allowed values: 1-100,000,000

Logic: None – all respond Required: Yes

Data collection level: Project Data collection frequency: Quarterly

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

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

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

Allowed values:

"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

Select multiple values. No

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

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Price premium to producer

Data element name: Price premium to Reporting question: What percent of the price premium is producer

provided to the producer for the commodity sold in this

marketing channel?

Description: The percent of the price 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 Allowed values: 0-100 Measurement unit: Percent

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

Logic: None - all respond

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

Allowed values: Measurement unit: Category

- 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) Required: Yes

Data collection level: Project Data collection frequency: Quarterly

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#### Marketing channel identification method

**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
- Negotiated contracts with buyers
- Partnership network or project partner
- Other (specify)

Required: Yes

Data collection level: Project

Logic: None - all respond

Data collection frequency: Quarterly

#### Traceability method

Data element name: Traceability method

**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**

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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

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#### 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

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

Logic: None - all respond

### 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
- 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

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

Total livestock area

Data element name: Total livestock Reporting question: What amount of the current operation is used for

area 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

Total forest area

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.

Select multiple values: No Data type: List

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)

Required: Yes

Data collection frequency: Initial enrollment and subsequent enrollment(s), if applicable

Livestock head

Data element name: Livestock head 1-3

Logic: Respond if 'Total livestock area' >0

Data collection level: Producer

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

Logic: Respond if 'Total livestock area' >0

Data collection level: Producer

Allowed values: 1-10,000,000

Required: Yes

Data collection frequency: Initial enrollment and

subsequent enrollment(s), if applicable

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Data element name: Organic farm

Reporting question: Is any part of the farm currently USDAcertified 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.

Select multiple values: No Data type: List

Allowed values: Measurement unit: Category

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.

Select multiple values: No Data type: List

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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Data element name: Producer outreach 1- Repor

**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

Data collection level: Producer

Required: Yes

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

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

CSAF state or local funds

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

unds 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

CSAF nonprofit funds

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

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

iaue	

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:

YesNo

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

Data element name: Commodity category	Reporting question: What category of commodity(ies) is (are) produced from this field		
Description: Category of commodity(ies) produced in fiel	[2] [2] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4		
	Select multiple values: No		
Data type: List			
Measurement unit: Category	Allowed values:		
	• Crops		
	• Livestock		
	<ul> <li>Trees</li> <li>Crops and livestock</li> </ul>		
	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			
Data element name: Commodity type	Reporting question: What type of commodity is		
	produced from this field?		
Description: Type of commodity produced in field enrolle	produced from this field? ed in the project. See full list in Appendix B. The		
<b>Description:</b> Type of commodity produced in field enrolls worksheet provides a drop-down list of the allowed value commodities in subsequent rows.	ed in the project. See full list in Appendix B. The		
	ed in the project. See full list in Appendix B. The		
worksheet provides a drop-down list of the allowed value commodities in subsequent rows.	ed in the project. See full list in Appendix B. The es. Choose the appropriate value. Enter additional		
worksheet provides a drop-down list of the allowed value commodities in subsequent rows.  Data type: List	ed in the project. See full list in Appendix B. The es. Choose the appropriate value. Enter additional  Select multiple values: No		
worksheet provides a drop-down list of the allowed value commodities in subsequent rows.  Data type: List  Measurement unit: Category	ed in the project. See full list in Appendix B. The es. Choose the appropriate value. Enter additional  Select multiple values: No Allowed values: FSA commodity list		
worksheet provides a drop-down list of the allowed value commodities in subsequent rows.  Data type: List  Measurement unit: Category  Logic: None – all respond  Data collection level: Field	ed in the project. See full list in Appendix B. The es. Choose the appropriate value. Enter additional  Select multiple values: No Allowed values: FSA commodity list Required: Yes		
worksheet provides a drop-down list of the allowed value commodities in subsequent rows.  Data type: List  Measurement unit: Category  Logic: None – all respond  Data collection level: Field	ed in the project. See full list in Appendix B. The es. Choose the appropriate value. Enter additional  Select multiple values: No Allowed values: FSA commodity list Required: Yes		
worksheet provides a drop-down list of the allowed value commodities in subsequent rows.  Data type: List  Measurement unit: Category  Logic: None – all respond  Data collection level: Field  Baseline yield  Data element name: Baseline yield  Description: Average annual yield of commodity in 3 year	sed in the project. See full list in Appendix B. The es. Choose the appropriate value. Enter additional  Select multiple values: No Allowed values: FSA commodity list Required: Yes Data collection frequency: Initial enrollment  Reporting question: What is the baseline yield of this field? rs prior to enrollment. Provide yield for the enrolled		
worksheet provides a drop-down list of the allowed value commodities in subsequent rows.  Data type: List  Measurement unit: Category  Logic: None – all respond  Data collection level: Field  Baseline yield  Data element name: Baseline yield  Description: Average annual yield of commodity in 3 yea field if possible. If not at field level, provide average annual	sed in the project. See full list in Appendix B. The es. Choose the appropriate value. Enter additional  Select multiple values: No Allowed values: FSA commodity list Required: Yes Data collection frequency: Initial enrollment  Reporting question: What is the baseline yield of this field? rs prior to enrollment. Provide yield for the enrolled ual yield for the specific commodity for the operation.		
worksheet provides a drop-down list of the allowed value commodities in subsequent rows.  Data type: List  Measurement unit: Category  Logic: None – all respond  Data collection level: Field  Baseline yield  Data element name: Baseline yield  Description: Average annual yield of commodity in 3 year	sed in the project. See full list in Appendix B. The es. Choose the appropriate value. Enter additional  Select multiple values: No Allowed values: FSA commodity list Required: Yes Data collection frequency: Initial enrollment  Reporting question: What is the baseline yield of this field? rs prior to enrollment. Provide yield for the enrolled		
worksheet provides a drop-down list of the allowed value commodities in subsequent rows.  Data type: List  Measurement unit: Category  Logic: None – all respond  Data collection level: Field  Baseline yield  Data element name: Baseline yield  Description: Average annual yield of commodity in 3 yea field if possible. If not at field level, provide average annual	sed in the project. See full list in Appendix B. The es. Choose the appropriate value. Enter additional  Select multiple values: No Allowed values: FSA commodity list Required: Yes Data collection frequency: Initial enrollment  Reporting question: What is the baseline yield of this field? rs prior to enrollment. Provide yield for the enrolled ual yield for the specific commodity for the operation.		
worksheet provides a drop-down list of the allowed value commodities in subsequent rows.  Data type: List  Measurement unit: Category  Logic: None – all respond  Data collection level: Field  Baseline yield  Data element name: Baseline yield  Description: Average annual yield of commodity in 3 yea field if possible. If not at field level, provide average annual Data type: Decimal	Select multiple values: No Allowed values: FSA commodity list Required: Yes Data collection frequency: Initial enrollment  Reporting question: What is the baseline yield of this field?  rs prior to enrollment. Provide yield for the enrolled ual yield for the specific commodity for the operation. Select multiple values: No		

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Rase	ine I	riela	d unit
Dase	HILL	AICH	a wille

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)

Logic: None – all respond Required: Yes

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 fieldWhole operation

Other (specify)
 Required: Yes

Data collection level: Field Data collection frequency: Initial enrollment

Field land use

Logic: None - all respond

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

Logic: None – all respond Required: Yes

Data collection level: Field Data collection frequency: Initial enrollment

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

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?

Select multiple values: No Data type: List

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

Required: Yes

Data collection level: Field Data collection frequency: Initial enrollment

Field tillage

Logic: None - all respond

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

Allowed values: Measurement unit: Category

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

Data element name: Practice past extent - Reporting question: What percent of the farm has

farm implemented this CSAF practice (combination) previously?

**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 Select multiple values: No

Measurement unit: Category 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 31-75% of operation

Used on more than 75% of operation

Logic: None – all respond Required: Yes

Data collection level: Field Data collection frequency: Initial enrollment

Field any CSAF practice

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 Select multiple values: No

Measurement unit: Category Allowed values:

YesNo

I don't know

Logic: None – all respond Required: Yes

Data collection level: Field Data collection frequency: Initial enrollment

Practice past use - this field

Data element name: Practice past use - this

ield

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 Select multiple values: No

Measurement unit: Category Allowed values:

Yes

SomeNo

I don't know

Logic: None – all respond Required: Yes

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 Reporting question: What year is the CSAF practice planned to

implementation year 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

Data element name: Practice 1-7 Reporting question: Unit for extent of practice implementation

extent unit

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

#### **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 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 Reporting question: What is the total value of financial

amount 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)

Required: Yes

Data collection level: Producer Data collection frequency: Quarterly

Incentive structure

Logic: None - all respond

**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 Allowe

- 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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Incentive type

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)
   Required: Yes

Logic: None – all respond

Data collection level: Producer

Data collection frequency: Quarterly

Payment on enrollment

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 Required: Yes

Data collection level: Producer

Logic: None - all respond

Data collection frequency: Quarterly

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Pa	vment o	n 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 paymentPartial paymentNo payment

Logic: None – all respond Required: Yes

Data collection level: Producer Data collection frequency: Quarterly

Payment on MMRV

Data element name: Payment on MMRV

**Reporting question:** What portion of the financial incentive is provided to the producer upon completing MMRV requirements?

**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:

Required: Yes

Full paymentPartial paymentNo payment

Data collection level: Producer

Logic: None - all respond

Data collection frequency: Quarterly

Payment on sale

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 paymentPartial paymentNo payment

Logic: None – all respond Required: Yes

Data collection level: Producer Data collection frequency: Quarterly

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#### Field Summary

Unic	iue	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

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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
 Required: Yes

Data collection level: Field Data collection frequency: Quarterly

Incentive per acre or head

Logic: None - all respond

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

Data element name: Field commodity value Reporting question: What is the value of the commodity

produced on the enrolled field?

**Description:** The dollar value of the commodity produced on the enrolled field.

Data type: Decimal Select multiple values: No

Measurement unit: Dollars Allowed values: \$1-\$10,000,000

Logic: None – all respond Required: Yes

Data collection level: Field Data collection frequency: Quarterly

Field commodity volume

Data element name: Field commodity volume Reporting question: What is the volume of commodity

produced on the enrolled field?

Description: The volume of the commodity produced on the enrolled field

Data type: Decimal Select multiple values: No

Measurement unit: Number Allowed values: 1-10,000,000

Logic: None – all respond Required: Yes

Data collection level: Field Data collection frequency: Quarterly

Field commodity volume unit

Data element name: Field commodity volume Reporting question: What is the unit of volume?

unit

Description: 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.

Data type: List Select multiple values: No

Measurement unit: Category Allowed values:

Bushels

· Carcass weight pounds

GallonsHead

Linear feet

Liveweight pounds

Pounds

Tons

Other (specify)

Logic: None – all respond Required: Yes

Data collection level: Field Data collection frequency: Quarterly

Cost of implementation

Data element name: Cost of implementation Reporting question: What is the cost of practice

implementation in the field?

Description: Total annual estimated cost per unit of implementing the practice(s) in the enrolled field.

Data type: Decimal Select multiple values: No

Measurement unit: Dollars Allowed values: \$1-\$10,000,000

Logic: None – all respond Required: Yes

Data collection level: Field Data collection frequency: Quarterly

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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

· rei poui

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.

1-3

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 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

Data element name: Field GHG reporting

Reporting question: How were GHG benefits reported for this

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

#### Field GHG verification

Data element name: Field GHG verification

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.

Select multiple values: No Data type: List

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 Reporting question: What methods are used to calculate GHG

calculations benefits in this field?

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 Select multiple values: No

Measurement unit: Category Allowed values:

Models

Direct field measurements

Both

Logic: None – all respond Required: Yes

Data collection level: Field Data collection frequency: Quarterly

Field official GHG calculation

Data element name: Field official GHG Reporting question: What method was used to calculate the

calculation official GHG benefits in this field?

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 Select multiple values: No

Measurement unit: Category Allowed values:

Models

Direct field measurements

Logic: None – all respond Required: Yes

Data collection level: Field Data collection frequency: Quarterly

Field official GHG ER

Data element name: Field official GHG Reporting question: What are the estimated total GHG emission

emission reductions reductions (CO2eq) in this field?

**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 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

Field official carbon stock

Data element name: Field official carbon Reporting question: How much carbon has been sequestered in

stock this field?

**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 CO₂eq.

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 official CO2 ER

Data element name: Field official CO2 Reporting question: What are the estimated total CO2 emission

emission reductions 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 Reporting question: What are the estimated total CH4

reductions 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

Allowed values: 0-10,000,000

Allowed values: 0-10,000,000

completion or annually, as appropriate. Conversion rate is one ton of  $CH_4 = 25$  tons of  $CO_2$ eq.

Data type: Decimal Select multiple values: No

Measurement unit: Metric tons CH4 reduced in

CO<sub>2</sub>eq

Logic: None – all respond Required: Yes

Data collection level: Field Data collection frequency: Quarterly

Field official N20 ER

Data element name: Field official N2O emission Reporting question: What are the estimated total N2O

reductions 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  $N_2O = 298$  tons of  $CO_2eq$ .

Data type: Decimal Select multiple values: No

Measurement unit: Metric tons N2O reduced in

CO2ea

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

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

Other field measurement

Data element name: Other field Reporting question: Were data collected from the field for

measurement 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

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#### 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 name (must match FSA farm enrollment data)

County of field County name (must match FSA farm enrollment data)

Commodity type

State or territory of field

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
- CultivateAl'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

Data collection level: Field

Required: If project calculates GHG benefits using multiple methods

Data collection frequency: Annual

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Model start date		
Data element name: Model start date	<b>Reporting question:</b> For what time period are the GHG benefits modeled (model start date)?	
Description: Date that the model parameters	s begin.	
Data type: Date	Select multiple values: NA	
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/1950 - 12/31/2030	
Logic: None – all respond	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	s 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?	
<b>Description:</b> Total greenhouse gas emission using an alternate model.	reductions from practice implementation in the field estimated	
Data type: Decimal	elect multiple values: No	
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000	
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods	
Data collection level: Field	Data collection frequency: Annual	
Total carbon stock estimated		
Data element name: Total carbon stock estimated  Description: Total change in carbon stock ba alternate model. Conversion rate is one ton o Data type: Decimal	Reporting question: What is the alternate estimate of how much carbon has the field has sequestered? sed on practice implementation in the field estimated using an of carbon = 3.67 tons of CO₂eq.  Select multiple values: No	
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000	
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods	
Data collection level: Field	Data collection frequency: Annual	
Total CO2 estimated		
Data element name: Total CO2 estimated	Reporting question: What is the alternate estimate of the field's total CO2 emission reductions?	
<b>Description:</b> Total carbon dioxide emission reusing an alternate model.	eductions based on practice implementation in the field estimated	
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	
Data element name: Total CH4 estimated	Reporting question: What is the alternate estimate of the field's total CH4 emission reductions?
<b>Description:</b> Total methane emission reductions based on praction an alternate model. Conversion rate is one ton of CH <sub>4</sub> = 25 tons	
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CH4 reduced in CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods
Data collection level: Field	Data collection frequency: Annual
otal field N20 estimated	
Data element name: Total N2O estimated	Reporting question: What is the alternate estimate of the field's total N2O emission reductions?
<b>Description:</b> Total nitrous oxide emission reductions based on using an alternate method. Conversion rate is one ton of $N_2O$ =	
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	<b>Required:</b> If project calculates GHG benefits using multiple methods
Data collection level: Field	Data collection frequency: Annual

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#### GHG Benefits - Measured

U	ni	a	u	e	II	Ds	
•			•	•		-	٠.

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	field State name (must match FSA farm enrollment data)	
County of field	eld County name (must match FSA farm enrollment data)	

measurement	

Logic: None - all respond

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 Select multiple values: No

Measurement unit: Category 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

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: TextSelect multiple values: NoMeasurement unit: NAAllowed values: Free textLogic: None – all respondRequired: If applicable

Data collection level: Field Data collection frequency: Annual

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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 Allowed values: 01/01/2023 - 12/31/2030 Measurement unit: MM/DD/YYYY 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

Reporting question: What are Data element name: Total CO2 reduction calculated

> 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 CO2 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 Reporting question: What is the total amount of measured

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 CO2eq. Select multiple values: No Data type: Decimal

Allowed values: 0-10,000,000 Measurement unit: Metric tons CO2eq

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

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

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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:

PercentPpmGrams

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 matterTotal organic carbonBulk 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 Farm ID assigned by FSA	
Unique Tract ID assigned by FSA	
Unique Field ID assigned by FSA	
State name (must match FSA farm enrollment data)	
County name (must match FSA farm enrollment data)	
	Unique Tract ID assigned by FSA Unique Field ID assigned by FSA State name (must match FSA farm enrollment data)

100				
- m	uranma	ntall	penefits	

Data element name: Environmental Reporting question: Are environmental benefits other than

penefits GHGs being tracked in the field?

**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 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: Annual

Reduction in nitrogen loss

Data element name: Reduction in nitrogen Reporting question: Are reductions in nitrogen losses being

ss tracked in the field?

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 Select multiple values: No

Measurement unit: Category Allowed values:

YesNo

I don't know

Logic: Respond if yes to 'Environmental

benefits'

Required: Yes

Data collection level: Field Data collection frequency: Annual

Reduction in nitrogen loss amount

Data element Reporting question: How much reduction in nitrogen losses

name: Reduction in nitrogen loss amount have been measured in the field?

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

Data type: Decimal Select multiple values: No

Measurement unit: Amount Allowed values: 0-1,000,000

Logic: Respond if yes to 'Reduction in

nitrogen loss'

Required: Yes

Data collection level: Field

Data collection frequency: Annual

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Reduction in nitrogen loss amount unit	
~~~ "보이 하다 없는다"라니다. (1) 10 전에 가는 10 전에 보고 있는 10 전에 보고 있는 10 전에 되었습니다. (1) 10 전에 보고 있는 10 전에 되었다고 있는데 10 전에 되었다.	Reporting question: What is the unit for how much reduction in nitrogen losses have been measured in the field? uction in nitrogen losses that is measured and reported in the appropriate value as free text in the additional column.  Select multiple values: No
Measurement unit: Category	Allowed values:
	<ul> <li>Kilograms</li> <li>Metric tons</li> <li>Pounds</li> <li>Other (specify)</li> <li>Required: Yes</li> </ul>
Logic: Respond if yes to 'Reduction in nitrogen loss'	nequited. Tes
Data collection level: Field	Data collection frequency: Annual
Reduction in nitrogen loss purpose	
Data element name: Reduction in nitrogen loss purpose	Reporting question: What is the purpose of tracking reduction in nitrogen losses? nitrogen losses in the enrolled field. If "other" is chosen, enter the
appropriate value as free text in the addition	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Commodity marketing
	Producing insets
	Producing offsets
	I don't know
Logic: Respond if yes to 'Reduction in	Other (specify)  Required: Yes
nitrogen loss'  Data collection level: Project	Data collection frequency: Annual
as or as a superior contract to the contract of the contract o	Data collection frequency. Affilial
Reduction in phosphorus loss  Data element name: Reduction in	Reporting question: Are reductions in phosphorus losses being
phosphorus loss	tracked in the field?
	norus losses in the enrolled field. Tracking means at a minimum
using some form of monitoring and reporting	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	• Yes
	• No
	I don't know
<b>Logic:</b> Respond if yes to 'Environmental benefits'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Reduction in phosphorus loss amount	
Data element name: Reduction in	Reporting question: How much reduction in phosphorus losses
phosphorus loss amount  Description: Total amount of reduction in ph	have been measured in the field?
292 IS No. 1921 NO. 192	
Data type: Decimal	Select multiple values: No
Measurement unit: Amount	Allowed values: 0-1,000,000
Logic: Respond if yes to 'Reduction in phosphorus loss'	Required: Yes
Data collection level: Field	Data collection frequency: Annual

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

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Other water quality type			
Data element name: Other water quality	Reporting question: What type of other water quality metric		
type	have been measured in the field?		
- Bernel Control Cont	tric (besides nitrogen loss and phosphorus loss reductions) that is 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)		
<b>Logic:</b> Respond if yes to 'Other water quality'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Other water quality amount			
Data element name: Other water quality amount	Reporting question: How much reduction in other water quality metrics have been measured in the field?		
Description: Total amount of reduction in or	ther water quality metrics that is measured in the enrolled field.		
Data type: Decimal	Select multiple values: No		
Measurement unit: Amount	Allowed values: 0-1,000,000		
<b>Logic:</b> Respond if yes to 'Other water quality'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Other water quality amount unit			
Data element name: Other water quality	Reporting question: What is the unit for the reduction in other		
amount unit	water quality metrics measured in the field?		
	duction in other water quality metrics that is measured in the appropriate value as free text in the additional column.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
ata a	<ul> <li>Degrees F</li> </ul>		
	<ul> <li>Kilograms</li> </ul>		
	<ul> <li>Kilograms per liter</li> </ul>		
	<ul> <li>Metric tons</li> </ul>		
	<ul> <li>Pounds</li> </ul>		
ま 女 5 一 振	Other (specify)		
<b>Logic:</b> Respond if yes to 'Other water quality'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		

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Other water quality purpose			
Data element name: Other water quality	Reporting question: What is the purpose of tracking other water		
purpose	quality benefits?		
appropriate value as free text in the addition	r quality benefits in the enrolled field. If "other" is chosen, enter the		
Data type: List	Select multiple values: No		
200 Earl - 100 Earl -	Allowed values: No		
Measurement unit: Category	Commodity marketing		
	Producing insets		
	Producing offsets		
	I don't know		
	Other (specify)		
<b>Logic:</b> Respond if yes to 'Other water quality'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Water quantity			
Data element name: Water quantity	<b>Reporting question:</b> Is water conservation being tracked in the field?		
and the state of t	or reduction in use in the enrolled field. Tracking means at a		
minimum using some form of monitoring ar			
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	• Yes		
	No     Idon't know		
Logic: Respond if yes to 'Environmental	Required: Yes		
benefits'	neganica: 163		
Data collection level: Field	Data collection frequency: Annual		
Water quantity amount			
Data element name: Water quantity	Reporting question: How much water conservation has been		
amount	measured in the field?		
Description: Total amount of water conserv	ation or reduction that is measured in the field.		
Data type: Decimal	Select multiple values: No		
Measurement unit: Amount	Allowed values: 0-1,000,000		
Logic: Respond if yes to 'Water quantity'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Water quantity amount unit			
Data element name: Water quantity amount unit	<b>Reporting question:</b> What is the unit for the amount of water conservation measured in the field?		
	ater conservation or reduced use that is measured and reported in		
	r the appropriate value as free text in the additional column.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Acre-feet     Chi feet		
	Cubic feet     Other (specify)		
Logic: Respond if yes to 'Water quantity'	<ul> <li>Other (specify)</li> <li>Required: Yes</li> </ul>		
Data collection level: Field	For the second s		
Data collection level: Field	Data collection frequency: Annual		

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Wasanana	
Water quantity purpose  Data element name: Water quantity	Reporting question: What is the purpose of tracking water
purpose	conservation?
	servation or reductions in water use in the enrolled field. If "other" is
chosen, enter the appropriate value as free	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
The second second second second	Commodity marketing
	Producing insets
	Producing offsets
	<ul> <li>I don't know</li> </ul>
	Other (specify)
Logic: Respond if yes to 'Water quantity'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Reduced erosion	
Data element name: Reduced erosion	<b>Reporting question:</b> Is reduced soil erosion being tracked in the field?
Description: Tracking of reduced soil erosic	on in the enrolled field. Tracking means at a minimum using some
form of monitoring and reporting that can	remark registration in the property of the contract of the con
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	• Yes
	• No
1 - 1 - D 176 1 - 17 - 1 1 - 1	Idon't know
<b>Logic:</b> Respond if yes to 'Environmental benefits'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Reduced erosion amount	
Data element name: Reduced erosion	Reporting question: How much erosion reduction has been
amount	measured in the field?
Description: Total amount of erosion reduc	tion 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?
the contract of the contract o	rosion reduction from enrolled fields that is measured and reported
	ne appropriate value as free text in the additional column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	• Tons
Logie: Possend if yes to (Padward and and	Other (specify)  Partition Vos
Logic: Respond if yes to 'Reduced erosion'	Required: Yes
Data collection level: Field	Data collection frequency: Annual

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Reduced erosion purpose			
Data element name: Reduced erosion	Reporting question: What is the purpose of tracking reduced		
purpose	erosion in the field?		
<b>Description:</b> Purpose of tracking reduced envalue as free text in the additional column.	osion the enrolled field. If "other" is chosen, enter the appropriate		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Commodity marketing		
	Producing insets		
	<ul> <li>Producing offsets</li> </ul>		
	<ul> <li>I don't know</li> </ul>		
	Other (specify)		
Logic: Respond if yes to 'Reduced erosion'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Reduced energy use			
Data element name: Reduced energy use	<b>Reporting question:</b> 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 q			
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	• Yes		
	• No		
	<ul> <li>I don't know</li> </ul>		
<b>Logic:</b> Respond if yes to 'Environmental benefits'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Reduced energy use amount			
Data element name: Reduced energy use	Reporting question: How much energy use reduction has been		
amount	measured in the field?		
Description: Total amount of energy use rec	luction that is measured in the enrolled field.		
Data type: Decimal	Select multiple values: No		
Measurement unit: Amount	Allowed values: 0-1,000,000		
<b>Logic:</b> Respond if yes to 'Reduced energy use'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Reduced energy use amount unit			
Data element name: Reduced energy use	Reporting question: What is the unit for the energy use		
unit	reduction measured in the field?		
	ergy use reduction that is measured in the enrolled field. If "other"		
is chosen, enter the appropriate value as fre			
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Kilowatt hours		
	Other (specify)		
<b>Logic:</b> 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

Data element name: Reduced energy use Reporting question: What is the purpose of tracking reduced

urpose energy use in the field?

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 Select multiple values: No

Measurement unit: Category Allowed values:

Commodity marketingProducing insetsProducing offsets

I don't knowOther (specify)

Logic: Respond if yes to 'Reduced energy

use'

Required: Yes

Data collection level: Field Data collection frequency: Annual

Avoided land conversion

Data element name: Avoided land Reporting question: Is avoided land conversion being tracked in

conversion the field?

**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 Select multiple values: No

Measurement unit: Category Allowed values:

YesNo

I don't know

Logic: Respond if yes to 'Environmental

benefits'

Required: Yes

Data collection level: Field Data collection frequency: Annual

Avoided land conversion amount

Data element name: Avoided land Reporting question: How much avoided land conversion has

conversion amount been measured in the field?

Description: Total amount of avoided land conversion that is measured in the enrolled field.

Data type: Decimal Select multiple values: No
Measurement unit: Amount Allowed values: 0-1,000,000

Logic: Respond if yes to 'Avoided land

conversion'

Required: Yes

Data collection level: Field Data collection frequency: Annual

Avoided land conversion amount unit

Data element name: Avoided land Reporting question: What is the unit for the amount of avoided

conversion unit land conversion measured in the field?

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 Select multiple values: No

Measurement unit: Category Allowed values:

Acres

Other (specify)

Logic: Respond if yes to 'Avoided land

conversion'

Required: Yes

Data collection level: Field Data collection frequency: Annual

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Avoided land conversion purpose Data element name: Avoided land Reporting question: What is the purpose of tracking avoided conversion purpose land conversion in the field? 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 Select multiple values: No Measurement unit: Category Allowed values: Commodity marketing Producing insets Producing offsets I don't know Other (specify) Logic: Respond if yes to 'Avoided land Required: Yes conversion' Data collection level: Field Data collection frequency: Annual Improved wildlife habitat Data element name: Improved wildlife Reporting question: Are improvements to wildlife habitat being tracked in the field? 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 Select multiple values: No Measurement unit: Category Allowed values: Yes No I don't know Logic: Respond if yes to 'Environmental Required: Yes benefits' Data collection level: Field Data collection frequency: Annual Improved wildlife habitat amount Data element name: Improved wildlife Reporting question: How much improved wildlife habitat has habitat amount been measured in the field? Description: Total amount of improved wildlife habitat that is measured in and around the enrolled fields. Data type: Decimal Select multiple values: No Measurement unit: Amount Allowed values: 0-1,000,000 Logic: Respond if yes to 'Improved wildlife Required: Yes habitat' Data collection level: Field Data collection frequency: Annual Improved wildlife habitat amount unit Data element name: Improved wildlife Reporting question: What is the unit for the amount of improved wildlife habitat measured in the field? 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 Select multiple values: No Allowed values: Measurement unit: Category Acres Linear feet Other (specify)

.

Logic: Respond if yes to 'Improved wildlife

Data collection level: Field

habitat'

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Data collection frequency: Annual

Required: Yes



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

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### **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 guestions for select CSAF practices

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

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		Coal
		Diesel
		Electricity
		Gasoline
		Kerosene
	Fuel type before installation	Liquified petroleum gas (LPG)
		Natural gas
		Propane Wood
		Other (specify)
	Fuel amount before installation	0-1,000,000
		Cubic feet (natural gas)
	Fuel amount unit before	Gallons (diesel, gasoline, propane, LPG, kerosene)
	installation	Kilowatt-hours (electricity)
	Installation	Pounds (wood, coal)
Combustion System	2	Other (specify)
Improvement (CPS 372)		Coal
		Diesel
		Electricity
		Gasoline
	First town after tentallistics	Kerosene
	Fuel type after installation	Liquified petroleum gas (LPG)
		Natural gas
		Propane
		Wood
		Other (specify)
	Fuel amount after installation	0-1,000,000
	120.000	Cubic feet (natural gas)
		Gallons (diesel, gasoline, propane, LPG, kerosene)
	Fuel amount unit after	Kilowatt-hours (electricity)
	installation	Pounds (wood, coal)
		Other (specify)
		Brassicas
	Species category (select most	Grasses
Conservation Cover	common/extensive type if	Legumes
(CPS 327)	using more than one)	Non-legume broadleaves
	:==1 <u>U</u>	Shrubs

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		Brassica
		Broadleaf
	Conservation crop type	Cool season
	conservation crop type	Grass
		Legume
		Warm season
		Added perennial crop
C	Change implemented	Reduced fallow period
Conservation Crop Rotation		Both
(CPS 328)	S	Conventional (plow, chisel, disk
		No-till, direct seed
	AND AND ADDRESS OF THE PROPERTY OF THE PROPERT	Reduced till
	Conservation crop rotation tillage type	Strip till
		None
		Other (specify)
	Total conservation crop rotation length in	12-4-2-4-2-4-2-4-4-4-4-4-4-4-4-4-4-4-4-4
	days	1-120
E E (122) E E NESERE	Strip width (feet)	1-100
Contour Buffer Strips (CPS		Grasses
332)	Species category	Forbs
		Mix
		Brassicas
	Species category (select most	Forbs
	common/extensive type if using more	Grasses
	than one)	Legume
		Non-legume broadleaves
	8	Grazing
6 /600 040	Cover crop planned management	Haying
Cover Crop (CPS 340)	3.1 38	Termination
	1)—————————————————————————————————————	Burning
		Herbicide application
	6026 33 M4 5au 1 (UZ) NA	Incorporation
	Cover crop termination method	Mowing
		Rolling/crimping
		Winter kill/frost
		Grass
		Grass legume/forb mix
Critical Area Planting (CPS	Species category (select most	Herbaceous woody mix
342)	common/extensive type if using more	Perennial or reseeding
572	than one)	Shrubs
		Trees
	Crude protein (percent)	0-100
	Fat (percent)	0-100
ZII II DE NESSENDENNI	- Taylor and a second	Chemical
Feed Management (CPS 592)		
	Feed additives/supplements	Edible oils/fats
		Seaweed/kelp
		Other (specify)
	Species category (select most	Forbs
Field Border (CPS 386)	common/extensive type if using more	Grasses
ner nernerenner i une del Windows Andread	than one)	Mix
	minate (Asset See L)	Shrubs

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

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

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ura 63 10 16	Forbs
Species category (select most	Grasses
common/extensive type if using more than	Legumes
one)	Shrubs
	Trees
# 2 W W	None
Surface disturbance	Seed row only
	A DOUGH AND AND SAN HAND SAN
Surface disturbance	None
	Seed row/ridge tillage for
	planting
	Shallow across most of the soi
	surface
1550 Oct 50 30 30 00 W	Vertical/mulch
Line Martin Committee Speed programmed Line Speed Speed Martin Speed Spe	Coniferous trees
	Deciduous trees
	Shrubs
	1-10,000
	Ferns
Species category (select most common/extensive type if using more than	Forbs
	Grasses
	Legumes
one)	Rushes
	Sedges
	Concrete
	Flexible geomembrane
Roof/cover type	Metal
4	Timber
	Other (specify)
Seeding of complete work	Coniferous trees
	Deciduous trees
	Forage
one)	Shrubs
Species density (number of trees planted per acre)	1-10,000
acre) Strip width (feet)	1-10,000 1-1,000
acre) Strip width (feet) Crop category (select most common/extensive	1-10,000
acre) Strip width (feet)	1-10,000 1-1,000 Erosion resistant crops Fallow
acre) Strip width (feet) Crop category (select most common/extensive type if using more than one)	1-10,000 1-1,000 Erosion resistant crops
acre) Strip width (feet) Crop category (select most common/extensive type if using more than one) Number of strips	1-10,000 1-1,000 Erosion resistant crops Fallow Sediment trapping crops 2-100
Strip width (feet)  Crop category (select most common/extensive type if using more than one)  Number of strips  Species category (select most common/extensive type if using more than one)	1-10,000  1-1,000  Erosion resistant crops Fallow Sediment trapping crops 2-100  Coniferous trees
acre) Strip width (feet) Crop category (select most common/extensive type if using more than one) Number of strips Species category (select most common/extensive type if using more than	1-10,000  1-1,000  Erosion resistant crops Fallow Sediment trapping crops 2-100  Coniferous trees Deciduous trees
Strip width (feet)  Crop category (select most common/extensive type if using more than one)  Number of strips  Species category (select most common/extensive type if using more than one)  Species density (number of trees planted per	1-10,000  1-1,000  Erosion resistant crops Fallow Sediment trapping crops 2-100  Coniferous trees
Strip width (feet)  Crop category (select most common/extensive type if using more than one)  Number of strips  Species category (select most common/extensive type if using more than one)  Species density (number of trees planted per acre)	1-10,000  1-1,000  Erosion resistant crops Fallow Sediment trapping crops 2-100  Coniferous trees Deciduous trees Shrubs  1-10,000
acre)  Strip width (feet)  Crop category (select most common/extensive type if using more than one)  Number of strips  Species category (select most common/extensive type if using more than one)  Species density (number of trees planted per acre)  Species category (select most	1-10,000  1-1,000  Erosion resistant crops Fallow Sediment trapping crops 2-100  Coniferous trees Deciduous trees Shrubs  1-10,000  Grasses
Strip width (feet)  Crop category (select most common/extensive type if using more than one)  Number of strips  Species category (select most common/extensive type if using more than one)  Species density (number of trees planted per acre)	1-10,000  1-1,000  Erosion resistant crops Fallow Sediment trapping crops 2-100  Coniferous trees Deciduous trees Shrubs  1-10,000
	common/extensive type if using more than one)  Surface disturbance  Surface disturbance  Species category (select most common/extensive type if using more than one)  Species density (number of trees planted per acre)  Species category (select most

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

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

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

All NRCS Practice Standards	(not limited to climate-smart	practices)

309, Agrichemical Handling Facility
311, Alley Cropping
313, 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
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
326, Clearing and Snagging
410, Grade Stabilization Structure
412, Grassed Waterway

327, Conservation Cover 420, Wildlife Habitat Planting
328, Conservation Crop Rotation 422, Hedgerow Planting
329, Residue and Tillage Management, No Till 423, Hillside Ditch

330, Contour Farming 428, Irrigation Ditch Lining

331, Contour Orchard and Other Perennial Crops 428A, Irrigation Water Conveyance, Ditch and Canal Lining,

332, Contour Buffer Strips Plain Concrete

333, Amending Soil Properties with Gypsum Products 428B, Irrigation Water Conveyance, Ditch and Canal Lining,

334, Controlled Traffic Farming
336, Soil Carbon Amendment
336, Soil Carbon Amendment
338, Prescribed Burning
340, Cover Crop
428C, Irrigation Water Conveyance, Ditch and Canal Lining,
Galvanized Steel
430, Irrigation Pipeline

342, Critical Area Planting
432, Dry Hydrant
345, Residue and Tillage Management, Reduced Till
436, Irrigation Reservoir

348, Dam, Diversion 441, Irrigation System, Microirrigation

350, Sediment Basin 442, Sprinkler System

351, Well Decommissioning
443, Irrigation System, Surface and Subsurface
353, Monitoring Well
447, Irrigation and Drainage Tailwater Recovery
355, Groundwater Testing
449, Irrigation Water Management

356, Dike and Levee 450, Anionic Polyacrylamide (PAM) Application 359, Waste Treatment Lagoon 453, Land Reclamation, Landslide Treatment 455, Land Reclamation, Toxic Discharge Control

362, Diversion 457, Mine Shaft and Adit Closing

366, Anaerobic Digester 460, Land Clearing

367, Roofs and Covers 462, Precision Land Forming and Smoothing

368, Emergency Animal Mortality Management
371, Air Filtration and Scrubbing
466, Land Smoothing
473, Combustion System Improvement
468, Lined Waterway or Outle

372, Combustion System Improvement

468, Lined Waterway or Outlet

472, Access Control

374, Energy Efficient Agricultural Operation

484, Mulching

374, Energy Efficient Agricultural Operation
375, Dust Management for Pen Surfaces
376, Field Operations Emissions Reduction
378, Pond
484, Mulching
490, Tree/Shrub Site Preparation
500, Obstruction Removal
511, Forage Harvest Management

379, Forest Farming 512, Pasture and Hay Planting 380, Windbreak/Shelterbelt Establishment and Renovation 516, Livestock Pipeline

381, Silvopasture 520, Pond Sealing or Lining, Compacted Soil Treatment 521, Pond Sealing or Lining, Geomembrane or

383, Fuel Break Geosynthetic Clay Liner

384, Woody Residue Treatment
386, Field Border
521B, Pond Sealing or Lining, Flexible Membrane
521B, Pond Sealing or Lining, Soil Dispersant
521C, Pond Sealing or Lining, Bentonite Sealant

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521D, Pond Sealing or Lining, Compacted Clay Treatment

522, Pond Sealing or Lining - Concrete

527, Sinkhole Treatment 528, Prescribed Grazing 533, Pumping Plant

543, Land Reclamation, Abandoned Mined Land 544, Land Reclamation, Currently Mined Land 548, Grazing Land Mechanical Treatment

550, Range Planting

554, Drainage Water Management

555, Rock Wall Terrace 557, Row Arrangement 558, Roof Runoff Structure

560, Access Road

561, Heavy Use Area Protection 562, Recreation Area Improvement

566, Recreation Land Improvement and Protection

570, Stormwater Runoff Control

572, Spoil Disposal 574, Spring Development 575, Trails and Walkways 576, Livestock Shelter Structure

578, Stream Crossing

580, Streambank and Shoreline Protection

582, Open Channel

584, Channel Bed Stabilization

585, Stripcropping

587, Structure for Water Control

588, Crosswind Ridges 589, Cross Wind Trap Strips 590, Nutrient Management

591, Amendments for Treatment of Agricultural Waste

592, Feed Management

595, Pest Management Conservation System

600, Terrace

601, Vegetative Barrier 602, Equitable Relief

603, Herbaceous Wind Barriers

604, Saturated Buffer 605, Denitrifying Bioreactor 606, Subsurface Drain 607, Surface Drain, Field Ditch

608, Surface Drain, Main or Lateral

609, Surface Roughening

610, Salinity and Sodic Soil Management

612, Tree/Shrub Establishment

614, Watering Facility 620, Underground Outlet 629, Waste Treatment 630, Vertical Drain 632, Waste Separation Facility

633, Waste Recycling 634, Waste Transfer

635, Vegetated Treatment Area636, Water Harvesting Catchment638, Water and Sediment Control Basin

640, Waterspreading 642, Water Well

643, Restoration of Rare or Declining Natural Communities

644, Wetland Wildlife Habitat Management 645, Upland Wildlife Habitat Management

646, Shallow Water Development and Management 647, Early Successional Habitat Development-Mgt

649, Structures for Wildlife

650, Windbreak/Shelterbelt Renovation

654, Road/Trail/Landing Closure and Treatment

655, Forest Trails and Landings 656, Constructed Wetland 657, Wetland Restoration 658, Wetland Creation 659, Wetland Enhancement 660, Tree-Shrub Pruning 666, Forest Stand Improvement

670, Energy Efficient Lighting System 672, Energy Efficient Building Envelope 736, Crop By-Product Transfer, interim 724, Water Treatment Facility, interim 735, Waste Gasification Facility, interim

737, Reduced Water and Energy Coffee Conveyance

System, interim

740, Pond Sealing and Lining, Soil Cement, interim

751, Individual Terrace, interim 753, Infiltration Ditch, interim 755, Well Plugging, interim

770, Livestock Confinement Facility, interim 775, Drainage Ditch Covering, interim 782, Phosphorus Removal System, interim 800, Controlling Existing Flowing Wells, interim

803, Water Well Disinfection, interim

805, Amending Soil Properties with Lime, interim

808, Soil Carbon Amendment, interim

809, Conservation Harvest Management, interim 810, Annual Forages for Grazing Systems, interim

812, Raised Beds, interim

815, Groundwater Recharge Basin or Trench, interim

817, On-Farm Recharge, interim

818, Water Conservation System, interim

821, Low Tunnel Systems, interim 823, Organic Management, interim

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

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Appendix B: Commodity List

**CHRISTMAS TREES** 

**CROPS** CINNAMON HYBRID POPLAR TREES

**ALFALFA** CLOVER IDLE **ALMONDS** COCONUTS INDIGO

AMARANTH GRAIN COFFEE ISRAEL MELONS APPLES CORN JACK FRUIT

JERUSALEM ARTICHOKES **APRICOTS COTTON ELS** 

ARONIA (CHOKEBERRY) **COTTON UPLAND JICAMA ARTICHOKES CRANBERRIES JOJOBA ASPARAGUS** CRENSHAW MELON JUJUBE **ATEMOYA** CRUSTACEAN **JUNEBERRIES AVOCADOS CUCUMBERS** KENAF **BAMBOO SHOOTS CURRANTS** KHORASAN **BANANAS** DASHEEN **KIWIBERRY** BARLEY DATES **KIWIFRUIT** 

**BEANS** DURIAN KOCHIA (PROSTRATA)

BEETS **EGGPLANT** KOHLRABI

BIRDSFOOT/TREFOIL **EINKORN** KOREAN GOLDEN MELON

**BLUEBERRIES ELDERBERRIES KUMQUATS BREADFRUIT EMMER** LAMBS EAR BROCCOFLOWER FIGS LEEKS BROCCOLI FINFISH LEMONS **BROCCOLINI** FLAX **LENTILS BRUSSEL SPROUTS FLOWERS** LESPEDEZA BUCKWHEAT FORAGE SOYBEAN/SORGHUM LETTUCE CABBAGE GAILON LIMES CACAO GARLIC LONGAN CACTUS GENIP LOQUATS CAIMITO **GINGER** LYCHEE CALABAZA MELON GINSENG MANGOS CALALOO GOOSEBERRIES MANGOSTEEN CAMELINA **GOURDS** MAPLE SAP

**CANARY MELON** GRAPEFRUIT MAYHAW BERRIES CANARY SEED GRAPES **MEADOWFOAM CANEBERRIES** GRASS MILKWEED CANISTEL **GREENS** MILLET

CANOLA **GROUND CHERRY** MIXED FORAGE **CANTALOUPES** GUAMABANA/SOURSOP MOHAIR

CARAMBOLA (STAR FRUIT) **GUAR** MOLLUSK **CARROTS GUAVA** MORINGA **CASHEW GUAVABERRY** MULBERRIES **CASSAVA GUAYULE** MUSHROOMS CAULIFLOWER HAZEL NUTS MUSTARD CELERIAC **HEMP NECTARINES** CELERY **HERBS** NIGER SEED CHERIMOYA **HESPERALOE** NON CHERRIES HONEY OATS CHESTNUTS **HONEYBERRIES OKRA** CHICORY/RADICCHIO HONEYDEW **OLIVES** CHINESE BITTER MELON HOPS ONIONS

HORSERADISH CHUFAS **HUCKLEBERRIES PAPAYA** 

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**ORANGES** 

**TURKEYS** 

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

PARSNIP STRAWBERRIES

PASSION FRUITS SUGAR BEETS

PAWPAW SUGARCANE LIVESTOCK

PEACHES SUNFLOWERS ALPACAS

PEANUTS SUNN HEMP BEEF COWS

PEARS TANGELOS BEEFALO

PEARSTANGELOSBEEFALOPEASTANGERINESBUFFALO OR BISONPECANSTANGORSCHICKENS (BROILERS)PENNYCRESSTANGOSCHICKENS (LAYERS)PEPPERSTANNIERDAIRY COWS

**PEPPERS** PERENNIAL PEANUTS TARO DEER **DUCKS** PERIQUE TOBACCO TEA TEFF **PERSIMMONS** ELK TI PINE NUTS **EMUS PINEAPPLE** TOBACCO CIGAR WRAPPER **EQUINE PISTACHIOS TOBACCO BURLEY** GEESE

PITAYA/DRAGONFRUIT **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 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 WAX JAMBOO FRUIT RICE WILD

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

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

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

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

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

#### IV. Producer Benefits

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

### V. Producer Data Protection and Disclosure

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

### VI. Other Data and Reporting Requirements

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

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

Prior to execution of this grant, the recipient must provide a shapefile depicting the project boundary for enrollment under this grant. Producer enrollment may not occur outside this boundary without modification of this grant.

Within 30 calendar days of execution of this grant, the recipient must provide to the National Program Officer a website address where enrollment information will be posted for producers for the project associated with this grant. Recipients will be responsible for the following reports:

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

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

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

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

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

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

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

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

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

### VII. Competition and Anti-Competitive Practices

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

### VIII. Suspension and Disbarment

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

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

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

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

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

### X. Non-Disparagement

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