

NOTICE OF GRANT AND AGREEMENT AWARD

 Award Identifying Number 	2. Amendn	nent Number	3. Award /Project Per	iod	4. Type of award instrument:
NR233A750004G002			Date of final signa 03/20/2028	ture -	Grant Agreement
5. Agency (Name and Address) USDA Partnerships for Climate-Smart Commodities c/o FPAC-BC Grants and Agreements Division 1400 Independence Ave SW, Room 3236 Washington, DC 20250 Direct all correspondence to FPAC.BC.GAD@usda.gov		6. Recipient Organization (Name and Address) IOWA SOYBEAN ASSOCIATION 1255 SW PRAIRIETRAIL PKWY ANKENY IA 50023-7068 UEI Number / DUNS Number: L7KQE4GQ1Q71 / 600824853 EIN:			
7. NRCS Program Contact		dministrative Contact	Recipient Program Contact		10. Recipient Administrative Contact
Name: ERIC HANSEN	Name: Jac	kie Pashnik	Name: KIRK LEEDS		Name: Adam VenHuizen
(b)(6)	(b)(6)		(b)(6)		(b)(6)
11. CFDA	12. Authori	ity	13. Type of Action		14. Program Director
10.937	15 USC 71	1 at can	New Agreement		Name: ADAM KIEL
	15 USC 714 et seq		3		(b)(6)
15. Project Title/ Description: Expand markets for climate-smart corn, soybeans, sugar beets, and wheat in the Midwest and support farmer implementation and monitoring of climate-smart practices.					
16. Entity Type: N = Nonprofit without 501C3 IRS Status (Other than Institution of Higher Education)					
17. Select Funding Type					
Select funding type:		⋉ Federal		⊠ Non-Federal	
Original funds total		95,000,000.000		62138827.00	
Additional funds total		\$0.00		\$0.00	
Grand total		95,000,000.000	62138827.00		
18. Approved Budget					_

Personnel	\$1,234,462.00	Fringe Benefits	\$678,954.00
Travel	\$32,175.00	Equipment	\$0.00
Supplies	\$41,732.00	Contractual	\$0.00
Construction	\$0.00	Other	93,012,677.000
Total Direct Cost	94,816,834.000	Total Indirect Cost	\$183,166.00
		Total Non-Federal Funds	62138827.00
		Total Federal Funds Awarded	95,000,000.000
		Total Approved Budget	157,138,827.000

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	Signature	Date
KATINA HANSON Acting Senior Advisor for Climate-Smart Commodities	HANSON Digitally signed by KATINA HANSON Date: 2023.03.10 15:44:58 -05'00'	
Name and Title of Authorized Recipient Representative	Signature	Date
KIRK LEEDS Chief Executive Officer	Kirk Leeds Date: 2023.03.09 16:36:26	3/9/2023

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 Iowa Soybean Association (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 \$ 157,138,827

TOTAL FEDERAL FUNDS \$95,000,000
PERSONNEL \$1,122,238
FRINGE BENEFITS \$617,231
TRAVEL \$29,250
EQUIPMENT \$0
SUPPLIES \$37,938
CONTRACTUAL \$0
CONSTRUCTION \$0
OTHER
SUBAWARD \$40,917,612
PRODUCER INCENTIVES \$52,092,565
TOTAL DIRECT COSTS \$94,816,834
INDIRECT COSTS \$183,166

TOTAL NON-FEDERAL FUNDS \$62,138,827
PERSONNEL \$0
FRINGE BENEFITS \$0
TRAVEL \$0
EQUIPMENT \$0
SUPPLIES \$0
CONTRACTUAL \$0
CONSTRUCTION \$0
OTHER \$0
PRODUCER INCENTIVES \$62,138,827
TOTAL DIRECT COSTS \$62,138,827
INDIRECT COSTS \$0

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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Midwest Climate Smart Commodity Program Narrative

I. Executive Summary

The Iowa Soybean Association (ISA), in partnership with the Soil and Water Outcomes Fund (SWOF) operated by AgOutcomes Inc. (a subsidiary of the Iowa Soybean Association) and other organizations, requests \$95 million for the creation of the Midwest Climate Smart Commodity Program (the "Program") that provides performance based direct financial incentives for farmers to produce climate-smart commodities on 3.8 million aggregate acres of corn, soy, sugar beets and wheat over five years. The requested USDA funding will be matched by \$62.1 million in secured corporate commitments to purchase carbon dioxide equivalent (CO2e) inset credits from participating farmers. The total five-year project budget is \$157,128,827

To support farmer production of climate smart commodities, the program will provide \$114.2 million (73% of the total project budget, \$19.2 million more than the USDA request) to farmers via outcome-based contracts for the reduction and removal of CO2e through the adoption of new climate-smart practices. The remaining project funding will support farmer enrollment assistance, CO2e quantification, technical assistance support, measurement, reporting and verification, and underserved farmer outreach and enrollment. 20% of contracts will be reserved for underserved populations supported by dedicated conservation agronomist technical assistance. 155,000 acres of early adopters' production of climate-smart commodities will be incentivized via environmental outcome payments from the project using USDA and partner funds. Incentive payments will be tied to the environmental outcomes and associated with a valued commodity.

The Program's expected outcomes over five years include:

- The removal and reduction of 2.3-2.9 million metric tons of CO2e
- The prevention of 46-61 million pounds of nitrogen and 3-4.2 million pounds of phosphorus from entering waterways
- The climate-smart production of an estimated 363 million bushels of corn, 112 million bushels of soybeans, and 7.5 million bushels of wheat
- 220-440 contracts with underserved farmers (20% of all contracts)
- Total farmer payments of over \$114.2 million

The Program will develop and expand markets for climate-smart commodities and their resulting environmental benefits: 1) the market for CO2e insets associated with the production of commodities used in key food and fuel supply chains; 2) the market for water quality improvements generated by the introduction of climate smart practices; 3) the market for verified climate-smart corn, soy, sugar beet and wheat commodities; 4) the market for biofuel inputs using commodities produced with climate-smart practices; This Program will support USDA's goal to expand or develop these markets by:

Streamlining and scaling systems to generate verified CO2e insets and water quality
credits that farmers can monetize to meet growing demand for corporate carbon footprint
reductions and water quality improvements, climate-smart inputs for renewable fuel, and
future markets for climate-smart corn, soy, and wheat.

- Producing data and information that can be used by USDA and policymakers to shape research and policies supporting financial and technical support for climate-smart practice adoption and markets.
- Developing systems, processes, tools, and partnerships to encourage participation and market access for small and underserved farmers.

The Midwest Climate Smart Commodity Program and its supporting partners are uniquely positioned to implement this program at the proposed scale of 3.8 million acres using the Soil and Water Outcomes Fund (SWOF) infrastructure, services, and experience. Since 2019, the SWOF has been working to create a robust agricultural ecosystem service market that aligns the environmental and economic interests of farmers, corporations, and governments at the local, state, and federal levels. The SWOF has developed a track record for working with farmers and public and private entities to support new climate-smart practices that deliver high-quality, costeffective water quality and CO2e outcomes. In 2021, the SWOF enrolled more than 120,000 acres of cropland in Iowa, Illinois, Ohio, Maryland, Pennsylvania, and North Carolina, generating over 111,500 metric tons of CO2e reductions and removals, and preventing nearly 112,400 pounds of phosphorus and 1.9 million pounds of nitrogen from entering waterways. The SWOF has built the infrastructure, tools, processes, and partnerships to gather farmer data, use COMET-Farms and additional GHG quantification tools to quantify CO2e outcomes, contract and pay farmers, monitor and verify practice changes, and provide robust reporting through an online data management platform – groundwork that will allow this program to efficiently enroll acres, deploy dollars, and measure outcomes at scale.

Contact information for lead partner: Iowa Soybean Association, 1255 SW Prairie Trail Parkway, Ankeny, Iowa 50023

Lead project subawardee: AgOutcomes Inc., (manager of the Soil and Water Outcomes Fund and subsidiary of the Iowa Soybean Association)

Contributing partners providing matching funds: PepsiCo, Cargill, Renewable Energy Group, Ingredion, Target, JBS, Coca-Cola

Groups supporting the project: Illinois Soybean, Ohio Soybean Council, Missouri Soybean Merchandising Council, Iowa Department of Agriculture, The Andersons, StoneX Financial, Simplot, Landus, Milborn Seeds, American Farmland Trust, Iowa Finance Authority, National Association of State Departments of Agriculture, The Seam

Underserved/minority-focused partners: A minority and underserved outreach contractor, FarmRaise, Rural Community Assistance Partnership

Compelling need for the project: Stimulating new climate-smart practice adoption at scale requires technical assistance and financial incentives that cover implementation costs, especially in early adoption years. Today, private markets for climate-smart corn, soy and wheat do not exist. Private markets for on-farm CO2e inset credits typically only pay \$5-12 per acre – far below implementation costs of ~\$25-30+ per acre – and often require long-term contracts or purchase commitments for other products such as seed or fertilizer. Public conservation

programs can provide higher incentives but may include eligibility restrictions, limitations on acreage enrollment, or cost-share requirements. Public programs typically do not have access to matching corporate funding to extend impact across more acres with higher average farmer payments. The Program will pair USDA and private funding together to incentivize climatesmart adoption at scale with an average farmer payment of \$28.70 per acre. This assistance will help farmers transition to climate-smart practices that produce long-term soil health improvements, environmental benefits, and economic returns. A Soil Health Institute report showed long-term implementation of climate-smart practices increased net income by 85% for farmers growing corn and 88% growing soybeans¹. USDA funding for this program will also support the development and expansion of four distinct markets for climate-smart commodities and their environmental outcomes. Today, these markets are either emerging or conceptual. This program will address key barriers in these markets by deploying and refining the SWOF's turnkey, cost-effective farmer enrollment, contracting, quantification, and MRV platform while testing new approaches and technology for traceability and recordkeeping across supply chains.

Approach to minimize transaction costs: Four drivers will minimize transaction costs:

- The Program will utilize the SWOF's established tools, enrollment and data platform, and processes to scale farmer outreach, enrollment, payments, CO2e quantification via COMET-Farm, and practice monitoring, reporting, and verification. These services have been used to deploy, quantify, and verify new climate-smart practices across 120,000 acres in multiple states. Because this infrastructure and processes have already been developed and tested at scale, the program will be able to minimize transaction costs and deploy over \$114.2 million directly to farmers.
- Outcomes-based contracts with farmers. This approach rewards farmers based on the metric tons of CO2e reduced and removed as quantified by the COMET-Farm tool, thereby allocating dollars to practices that drive the greatest CO2e outcomes.
- Participating partners' network of existing farmers will minimize farmer outreach costs.
- Secured commitments of over \$62 million from corporate partners to purchase verified CO2e reductions from fields within their supply chain using newly adopted climate-smart practices. These commitments eliminate any transaction costs related to identifying and contracting buyers for climate-smart practice-related CO2e outcomes.

Approach to reduce farmer barriers to implementing CSAF practices: The Program will provide direct payments to farmers to reduce barriers to enrollment and implementation of climate-smart practices. These payments will reflect the cost of practice changes and transition risks to the farmer and the value of the carbon emissions and other benefits to the supply chain. 50% of yearly payments will be provided upon contract signing to address upfront cost barriers associated with practice implementation. The Program will also provide agronomic and conservation support, including a dedicated agronomist for underserved farmers. Utilization of the SWOF's tested and proven farmer enrollment and data collection platform will reduce administrative barriers to adoption. The Program will not have minimum acre requirements or enrollment limitations. The Program will encourage participation with all farmers, including those who rent land, new farmers, smallholder farms, and farmers of color.

¹ "Economics of Soil Health On 100 Farms", Soil Health Institute, September 14, 2021

Geographic focus: The Program will target areas of Iowa, Illinois, Indiana, Ohio, Missouri, Kansas, Nebraska, South Dakota, North Dakota, Minnesota, Wisconsin, and Michigan where commodities are sourced for specific partner food and fuel supply chains and markets.

Project management capacity of partners: The Iowa Soybean Association has years of experience working with USDA grants and working directly with farmers to implement climate-smart agricultural practices. Most recently, Iowa Soybean Association and project partners have implemented an RCPP Alternative Fund Award project to create an outcomes-based climate and water quality program with farmers in Iowa, Illinois, and Ohio. This experience allowed the Program team to develop farmer onboarding procedures, technical assistance services, contracting and payment mechanisms, and quantification and verification approaches. Further, the RCPP project developed procedures to check USDA farmer eligibility and meet NEPA requirements, in addition to developing familiarity with USDA reimbursement and other systems. The group of partners for this Program have experience purchasing and processing commodities and tracking GHG intensities through internal mass-balance approaches. Other participating partners have direct connections with farmers through member, customer, or other types of farmer relationships. The Iowa Soybean Association intends to contract with AgOutcomes (manager of the Soil and Water Outcomes Fund) to manage farmer payments, quantification, MRV, and CO2e transactions with partners.

II. Project Plan

Introduction: The Program seeks to build upon successful 2020-22 pilot projects to scale climate-smart practice implementation across a cumulative 3.8 million acres over five years.

CSAF practices deployed: Based on our experience, farmers will have the option to implement the following climate-smart practices: no-till (NRCS standard 329), reduced tillage (NRCS standard 345), cover crops (NRCS standard 340), nutrient management (NRCS standard 590), diverse crop rotations (NRCS standard 328), and pasture and hayland planting (512). These practices are all approved NRCS practices, and farmer contracts will specify that practices must follow NRCS practice standards.

Plan to recruit: Multiple recruitment pathways will secure farmer engagement:

- Partner direct promotion: Commodity purchasers Cargill, The Andersons, and Ingredion
 will work with the SWOF to reach farmers in key geographies and supply chains. The Soil
 and Water Outcomes Fund will conduct outreach in Iowa, Illinois, Ohio, Missouri, and
 Indiana through its existing network of farmers supported by its agronomy team.
- 2. Affiliated recruiters: The SWOF's network of affiliated recruiters will identify and enroll farmers. Recruiters include national and regional ag retailers and cooperatives, commodity associations, certified crop advisors, individual farmers, and others.
- 3. Targeted marketing: A marketing campaign will reach farmers in eligible geographies and include an emphasis on targeting historically underserved farmers.
- 4. Commodity associations: Partner commodity associations have committed to promoting the enrollment opportunity to farmer members.

5. Historically underserved farmer outreach: Program partners, specifically those with connections to historically underserved farmers, have committed to promote enrollment and outreach to underserved farmers in their networks. See additional information in the "Plan for Enrolling Underserved Farmers" section.

Table 1. Forecasted	Acres, CO2e Metric Tons, and	Farmers

	Year 1	Year 2	Year 3	Year 4	Year 5	Total
Early adopter acres	155,000	155,000	155,000	155,000	155,000	775,000
Additional acres with new climate-smart practices per year	155,000	240,182	240,182	240,182	96,073	3,425,000
Total acres under contract	310,000	550,182	790,364	1,030,547	1,126,620	3,807,713
Estimated metric tons of	186,000-	330,109-	474,219-	618,328-	675,982-	2,284,628-
CO2e reduced of removed	232,500	412,637	592,773	772,910	844,965	2,855,785
Total farmer contracts (est)	310-620	550- 1,110	790-1,581	1,031- 2,061	1,127- 2,253	1,127- 2,253
Historically underserved farmer contracts (est)	62-124	112-224	220-440	220-440	220-440	220-440

Plan for technical assistance: The Program will utilize a network of on-staff conservation agronomists to provide technical assistance to farmers before, during, and after enrollment. The conservation agronomists have backgrounds in either conservation, agronomy, or a related field and interface with farmers on the farm to help implement the climate-smart practices and address questions or issues that arise with the management of the practices. The conservation agronomists also interface with USDA-NRCS to develop environmental assessments to meet NEPA requirements and check farmer highly erodible land and wetland compliance status to ensure eligibility. The Program will also have a conservation agronomist on staff dedicated to working with historically underserved farmers. The network of conservation agronomists will expand to 16 to provide sound technical assistance to farmers.

Plan to provide financial assistance: The Program will build upon an existing, proven model (via the Soil and Water Outcomes Fund) to deploy financial assistance to farmers and secure reimbursement from public and private partners. The Program will provide farmers a forecasted \$114.2 million or \$40.00 per metric ton of CO2e on average, with ~47% of payments supported by USDA's climate-smart funding and ~53% of payments supported by partners.

The process for providing farmer financial assistance is as follows:

- Farmer enrolls via the SWOF website (theoutcomesfund.com) or by working directly with a conservation agronomist or recruiting partner. The farmer provides field boundaries and operational data, including climate-smart conservation practice information.
- Farmer data is sent to an environmental outcome quantification contractor. This contractor
 will run the COMET-Farm and Nutrient Tracking Tool models to determine the
 environmental outcomes resulting from new climate-smart practices.
- The SWOF provides the farmer with an outcomes-based payment estimate determined by the volume of CO2e reductions and removals estimated by COMET-Farm. The farmer's payment per metric ton of CO2e will be \$40.

- 4. Farmers who accept the payment estimate will enter into a contract that sets the terms for participation, including fields under contract and specific climate-smart practices implementation details. The contract also details NRCS practice specifications, prohibits enrollment in other conservation or carbon programs, and specifies the transfer of ownership of environmental outcomes.
- 5. The SWOF provides half of the yearly outcome-based contract payment within two weeks of contract signing to support the implementation of climate-smart practices. Farmers can choose to receive payment via overnight check or direct deposit. This upfront payment addresses a major barrier to entry for underserved farmers who may lack the financial resources to fund upfront costs for climate-smart practice implementation.
- 6. The SWOF conducts sampling and verification (described in the "Measurement, Recording, and Verification" section); once complete, the farmers receive the second half of their payment. If farmers are non-compliant, fields are rejected, or the contracts are amended to account for changes found during the verification process.
- 7. The Program will seek reimbursement from USDA once all yearly outcomes are verified. Partners, specifically those who agreed to purchase CO2e insets, will provide payment for the CO2e outcomes within their market supply chain geography.

Table 2: Financial Assistance and Average Payment Rates

	Year 1	Year 2	Year 3	Year 4	Year 5	Total
Early adopter farmer payments	\$4,650,000	4,650,000	\$4,650,000	\$4,650,000	\$4,650,000	\$23,250,000
Farmer payments for new climate smart practices	\$4,650,000	\$11,855,467	\$19,060,934	\$26,266,402	\$29,148,589	\$90,981,392
Total forecasted farmer payments	\$9,300,000	\$16,505,467	\$23,710,934	\$30,916,402	\$33,789,589	\$114,231,392
Average farmer payment per acre	\$30	\$30	\$30	\$30	\$30	\$30
Average farmer payment per MT of CO2e	\$40	\$40	\$40	\$40	\$40	\$40
Average USDA payment per CO2e metric ton	\$20.27	\$20.27	\$20.27	\$20.27	\$20.27	\$20.27

Plan to support early adopters: Early adopter determination will be made at the field level. Fields in the early adopter pool will not be allowed to concurrently enroll in a USDA contract for conservation practices. Also, fields enrolled in the early adopter pool must be beyond the practice lifespan of prior USDA contracted practices. The greenhouse gas reductions and removals will be calculated by comparing field operations with climate-smart practices to field operations without climate-smart practices. The resulting climate-smart commodities are valued and used by the project matching partners. If the project cannot incentivize the production of climate-smart commodities on these 155,000 early adopter acres, there is a high likelihood of increasing emissions. These acres will also provide significant ongoing data collection and MRV value for the project, USDA and partners.

Plan to enroll and provide financial assistance to underserved and small producers: The SWOF approach, which will be utilized in the Program, was intentionally designed in close collaboration with farmers to address common barriers and transition risks related to the adoption of climate-smart practices and to work for farms of all scales and economic background, regardless of land ownership. This flexible and non-prescriptive approach that includes free and ongoing agronomic support from professional SWOF conservation agronomists, free MRV/soil/water sampling, and guaranteed timely payments based on verified practices. These factors have been instrumental for engagement with younger and smaller farmers; of the acres currently enrolled in the SWOF, 20% are on farms smaller than 400 acres, and 33% are operated by farmers younger than 45.

Building on this solid foundation, the program will partner with its commodity association partners, a minority and underserved outreach contractor, Rural Community Assistance Partnership (RCAP), and others to engage beginning farmers, historically underserved farmers, veteran farmers, low-income farmers, and women farmers. Specifically, the minority and underserved outreach contractor will develop a custom outreach plan and bilingual materials for Hispanic farmers. FarmRaise will use its network, technology, and experience to enroll underserved farmers, including new and beginning farmers. Commodity association and retailer partners will develop outreach and communication plans for their farmer networks, which include veterans, women, and other underserved farmers. RCAP will provide data and research on vulnerable rural, low-income, tribal communities, and communities of color who can benefit most from climate-smart practices. RCAP will also support outreach to low-income and farmers of color who have not traditionally accessed benefits from USDA or federal programs.

To ensure the program addresses the needs of historically underserved farmers, the Program will:

- 1. Target and dedicate 20% of all yearly contracts to underserved farmers (a higher percentage than recent EQIP participation rates by underserved farmers). See Table 1 for the forecasted number of underserved farmer contracts.
- 2. Dedicate a full-time conservation agronomist to assist historically underserved farmers.
- 3. Work with partners to reduce barriers to enrollment by:
 - a. Developing custom outreach and engagement strategies;
 - b. Raising awareness among farmers about ecosystem service market opportunities:
 - c. Providing alternative enrollment pathways for underserved farmers, including paper enrollment forms and meetings with the conservation agronomist;
 - d. Administering upfront payments to ensure these farmers have the funds necessary to implement climate-smart practices.
- Work with and support other USDA funded climate-smart projects that focus on historically underserved farmers.
- 5. Include representation of historically underserved farmers in the Program Advisory Council, which will be developed to guide and support strategy and implementation.

III. Monitoring, Reporting, and Verification

Introduction: The Midwest Climate Smart Commodity Program will engage and expand the SWOF's comprehensive monitoring, reporting, and verification (MRV) program, developed and perfected using real-world data from 120,000 acres across several states over the past two years. Using this existing infrastructure and operating model will help to speed project implementation, minimize transaction costs, and maximize farmer payments.

Approach to GHG quantification: The Program will use a quantification methodology that will be deployed by a environmental outcome quantification contractor.). The Program will use the following steps for GHG quantification:

- 1. Field data collection. Demographic, farm, field, and operational data will be collected from farmers wishing to enroll. The SWOF data management system interfaces with farm data management systems via Leaf (withleaf.io) to connect to commonly used farm data management systems however, data can also be entered directly into the enrollment system. Necessary data includes field boundaries, fertilizer applications, tillage applications, field drainage structures, manure applications, harvest dates, and other operational data. The data is validated using a series of internal checks to ensure it falls within expected ranges. Farm Service Agency farm and tract numbers are also collected to meet USDA reporting requirements.
- 2. Outcome quantification: A data application programming interface will allow for the seamless transfer of data to the environmental outcome quantification contractor. The baseline and future farm operational data are combined with multiple years of historical "spin-up" data to establish a baseline for predicting changes associated with new conservation practices. USDA-NASS Cropland Data Layers (CDL) and USDA Crop Management Zone (CMZ) operations templates are used for parameterizing the COMET-Farm model for years prior to the farmer-provided data. Average annual CO2e estimates are calculated based on a 10-year projection from the year the conservation practice was implemented. The CO2e estimates are calculated by comparing baseline fluxes to those corresponding with simulation years following the conservation practice intervention and account for nitrous oxide reductions and soil carbon sequestration. This process can also quantify the water quality benefits, specifically nitrogen, phosphorus, and sediment reductions. The quantification process typically takes less than 48 hours.

Approach to monitoring: See Project Plan section, Table 1, for the anticipated number of farmer contracts and acres. Monitoring for this project will include the following components:

1. Remote sensing: The SWOF currently uses remotely sensed products from the USDA to backfill field-level cropping system data beyond what is provided by farmers during the enrollment process. An imagery service provider will be selected to complement USDA data to provide field boundary detection technology, further streamline the farmer enrollment process and conduct field-by-field climate-smart practice verification. The remote sensing partner will blend radar, satellite observations with models, and deep learning with on-the-ground training data to verify crop rotations, cover crops, and tillage practices. Verification results from remote sensing will prioritize fields for ground-based

- field inspections. Remote sensing verification will be used on 50% of contracted acres starting in year 2.
- 2. Field inspections: Staff from the SWOF will visit 100% of fields to document crop type, tillage, residue levels, presence of cover crops, and other information. Field visits will occur in the fall or spring of each year when conservation practices such as cover crops and no-till are visible. Photos and field notes are taken during the inspections, and all data is stored in the SWOF data management system and tied to each field's record.
- **3. Farmer operational records:** The farmer contract requires the retention of paper or electronic records of planned and actual farming practices, which the SWOF can request to ensure contract compliance.
- 4. Field audits: If contract-required conservation practices are not observed during field inspections, the SWOF will request proof of practice, including receipts, invoices, asapplied data, or other information.
- 5. Soil sampling: Soil sampling will be conducted on 10% of enrolled fields every year, and the sampling is repeated every five years. The fields selected for sampling are chosen at random using a GIS tool. Results of soil sampling are used to supplement and ground truth modeled soil carbon accumulation data and reduce uncertainty in modeled results in the long term. The soil sampling results will NOT be used to adjust the outcome transactions with SWOF partners and customers. Details of the soil sampling program are:
 - a. Site selection: Three soil sampling areas, one area in each of the three predominant soil types, will be selected in each field designated for soil organic carbon (SOC) verification. If there are less than three soil types in a field, the number of sampling locations will match the number of soil types. A GIS script is used to position soil sampling areas at the centroid of each soil type. A GPS-enabled data collector application will be used to navigate to 20 by 20-foot sampling areas.
 - b. SOC sample collection: A composite sample of 12 individual soil cores, positioned within the 20-foot square soil sampling area, are collected from a depth of zero to 12 inches, a depth controlled by a soil probe. Sample collection will avoid fields that have been recently fertilized or applied with manure, surface residues, and compacted, eroded, and other non-typical areas. The composite soil samples will be shipped to certified labs for analysis.
 - c. Bulk density sample collection: Soil bulk density samples will be collected using a 2-inch diameter by a 6-inch-long metal cylinder near where soil organic carbon samples are taken. The samples extracted from the cylinder will be taken, weighted, and dried in a laboratory oven and re-weighted again to estimate volumetric soil moisture content. All estimates of soil bulk density will be based on the dry soil and the specific volume of the cylinder used.
 - d. Frequency of soil sampling: Collection of soil samples for soil organic carbon and soil bulk density will be conducted every five years from the same sampling areas and during the same time of year to ensure consistency. Ten percent (10%) of the enrolled fields will be selected for soil organic carbon and soil bulk density on a rolling basis.

Approach to reporting and tracking GHG benefits: The Program will use an approach developed by the SWOF that accounts for and tracks both emission reductions and soil carbon sequestration separately at the field level. This data can be reported separately or in aggregate as a total CO2e. Once the GHG outcomes have been quantified and verified, they are reported and tracked using the following methodology:

- 1. Internal ledger assignment: All CO2e and water quality outcomes are associated with specific farmer contracts and unique field identifiers within the SWOF data system, allowing for internal and external data audits down to the field level. Once yearly quantification, monitoring and verification, and outcomes assignment are completed, the data is locked, and no further changes can be made, preventing any double counting and double selling of environmental outcomes. The ledger assignment also ensures the GHG outcomes and associated CO2e insets are assigned to corporate partners.
- 2. Buffer pools: The SWOF system will assign annual buffer pools to the CO2e and water quality outcomes to account for reversals from fields under contract. The CO2e buffer pool will be 10% of all outcomes, and the water quality buffer is variable based on upper limits for water quality improvements. These outcomes are not sold or reported to partners.
- 3. Reporting: The SWOF will provide a field-by-field report of CO2e and water quality improvements to USDA and other Program partners once a year. The reports will be the official transfer of ownership of the CO2e and water quality outcomes from the farmer. It should be noted that USDA will not be acquiring ownership of the environmental outcomes but instead supporting the development of the outcomes for the Scope 3 insetting market associated with commodity transaction and use.

Table 3: Estimated GHG Benefits

GHG Benefits per Acre	~0.60-0.75 metric tons of CO2e
GHG Benefits per 500-acre Farm	~300-375 metric tons of CO2e
GHG Benefits for Program	~2,570,206-2,855,785metric tons of CO2e
GHG Benefits per Commodity - Corn	~1,380,197metric tons of CO2e
GHG Benefits per Commodity – Soybeans	~1,403,519metric tons of CO2e
GHG Benefits per Commodity – Wheat	~72,068metric tons of CO2e
Longevity of GHG Benefits	TBD beyond project scope based on partner commitments and farmer continuation.

Approach to GHG verification: The Program will use the robust monitoring and reporting system developed by the SWOF and its public and private partners, provided at no cost to enrolled farmers. The Program will produce a quality GHG inset credit by ensuring the following:

Additionality: The GHG reduction would not have occurred if the cropland system had
operated under "business-as-usual" land management and not implemented the specific
intervention for which the credit is being issued. Additionality will be determined at the
field level when the farmer first enrolls. Conservation agronomists will work with farmers
to ensure practices meet additionality requirements.

2. Verification of intervention: Implementation of agricultural land management interventions for which inset credits are produced will be verified using a standardized process involving field visits, photos, receipts and documentation, and remote sensing.

Agreement to participate in partnerships network: The Iowa Soybean Association, AgOutcomes and the assembled partnership agree to assign a participant to the Climate-Smart Partnerships Network. Additionally, this proposal will support the establishment of a Program Advisory Council. The Advisory Council will guide new MRV processes, review existing data collection and analysis protocols, and include membership that reflects relevant experience, inclusivity, and diversity.

IV. Plan to Develop and Expand Markets for Climate-Smart Commodities

The Midwest Climate Smart Commodity Program is estimated to generate an estimated 363 million bushels of corn, 111 million bushels of soybeans, and 7.5 million bushels of wheat produced with climate-smart practices – commodities valued at over \$3.8 billion.² These commodities will develop and fuel the expansion of three markets tied to climate-smart commodity production and their resulting environmental benefits.

Market 1: Scope 3 Emission Reduction Insets

The Program will develop and expand systems for a large-scale corporate inset market, including farmer enrollment, CO2e quantification, inset verification, reporting and inset tracking. The program has secured commitments from PepsiCo, Cargill, Target, Ingredion, REG, Coca-Cola, and JBS to purchase verified CO2e reductions and removals of \$62.1 million over the five-year program. Additional supply chain partners have expressed interest in participating as CO2e inset buyers.

Market scalability: Corporate demand for on-farm carbon reductions generated by climate-smart practices is a fast-growing market driven by carbon reduction commitments and increasing recognition of climate change impacts on farm resiliency and long-term soil health. The market size for companies seeking to reduce their CO2e footprint is estimated at \$5.2 billion³, of which Scope 3 insets represent a material share.

Likelihood of long-term viability: Long-term market viability is high due to increasing demand from Scope 3 commitments and investments in supply chain resiliency. Viability requires tools, systems, and data that align corporate demand with farmer interest, document verified CO2e reductions at the field level, reduce administrative barriers, and minimize transaction costs. The Program will build and scale the infrastructure developed by the SWOF to support this market growth and increase farmer access to a new revenue stream.

Ability to inform future USDA actions: The Program will provide valuable insights to policymakers related to technical assistance, refinement of quantification models for CO2e and other co-benefits, creation of climate-smart standards or certification guidelines, and enhancements to existing conservation programs to facilitate greater adoption of climate-smart

² Estimates based on USDA National Agricultural Statistics Services state production and market data from 2021.

³ "Economic Assessment for Ecosystem Service Market Credits from Agricultural Working Lands" Oct 2018

practices. USDA will receive quantitative data related to CO2e reductions and removals at the field level for practice adoption, indirect economic benefits such as fuel savings and lower input costs, payment amounts, practice compliance rates, and soil and water sampling results.

Ability to help farmers realize greater market returns: Facilitating farmer access to the Scope 3 emission markets can increase market returns by \$10-15 per acre, given current CO2e pricing for Scope 3 insets. This pricing will likely increase due to growing corporate commitments and competition for farmer CO2e outcomes given overlapping supply sheds. The Program will pair USDA funding with CO2e inset purchases to support an average payment of \$30 per acre, which will help cover practice implementation costs. This Program will support sustainable market access and returns by scaling the infrastructure that provides farmers with an easy, cost-free tool to monetize climate-smart commodities and their environmental benefits.

Market 2: Water Quality Outcomes and Credits Generated by Climate-Smart Practices
Climate-smart practices produce water quality co-benefits for upstream and downstream
communities by reducing nitrogen and phosphorus runoff—co-benefits that have significant
value to governments and corporations. The SWOF is a leader in working with farmers,
corporations, municipalities, state agencies, and the USDA to support verified nitrogen and
phosphorus runoff reductions produced by new climate-smart practices. Since 2020, the SWOF
has secured >\$15 million in contracts from Iowa municipalities using verified outcomes to meet
NPDES permits; state agencies using verified outcomes to address voluntary nutrient
management strategies; the USDA through the RCPP-AFA program; and corporations seeking
holistic environmental resiliency improvements in priority watersheds. The Program will
quantify and verify nitrogen and phosphorus runoff reductions using the USDA-supported
Nutrient Tracking Tool and pursue additional water quality commitments to increase the total
USDA match and extend the number of acres available for enrollment.

Market scalability: The combined value of nitrogen and phosphorous water quality credits is estimated at \$8.7 billion⁴ driven by regulatory and voluntary programs to address nonpoint source runoff pollution. Recent federal legislation and state programs have increased funding available for water quality improvements. For example, programs and new funding related to this proposal's target geography include 2021's Infrastructure Investment and Jobs Act, which allocated \$1 billion to the Great Lakes Restoration Initiative, \$53 million to the Gulf of Mexico, and \$60 million to the Gulf Hypoxia Action Plan, and \$100 million from Iowa's allocation of American Rescue Plan Act fund.

Likelihood of long-term viability beyond project period: The long-term viability for water quality credits from new climate-smart practices is growing due to the increased interest and application of "pay-for-outcomes" projects and improved data, measurement, and infrastructure required to execute such programs. The Program's proposed system is more cost-effective than existing grant, cost-share, and pay-for-practice water programs, is easier to implement for partners, allows dollars to be directed to key watersheds, and generates field-level data on practice adoption and nitrogen and phosphorus reductions. The Program will seek ways to

⁴ "Economic Assessment for Ecosystem Service Market Credits from Agricultural Working Lands" Oct 2018

improve this existing system, secure new funding allocations for verified nitrogen and phosphorus reductions, and provide farmers with a platform to access water quality dollars.

Ability to inform future USDA actions: The Program will develop data and other information that will help inform USDA as it looks to facilitate water quality improvements in key watersheds and resolve water quality-related issues affecting and caused by agriculture. The Program will provide USDA with verified pounds of nitrogen and phosphorus reductions at the field level with corresponding baseline and new climate-smart practice adoption. The information and insights from this project could inform how USDA allocates funding for conservation practices and climate-smart practice adoption (e.g., expansion of a pay-for-outcomes RCPP-AFA program), pricing required to incentivize farmer enrollment at scale while containing costs, research needs, and future collaboration with EPA in supporting farmer adoption of climate-smart practices for water quality benefits.

Ability to help farmers realize greater market returns: The Program will help farmers access water quality markets by quantifying and verifying nitrogen and phosphorus reductions and matching water quality buyers (public and private) with farmers in priority watersheds. Pairing water quality dollars with CO2e inset revenue can increase farmer returns from \$5-12 per acre for CO2e only to >\$30 per acre for CO2e and water quality. In 2021, the average farmer enrolled in the SWOF program earned over \$31 per acre. This payment level helps farmers cover implementation costs and funds the transition to better soil health and long-term net income gains of \$40-50 per acre driven by lower input costs and higher yields⁵.

Market 3: Climate-Smart Commodities for Biofuel Production

The Program will work with partner Renewable Energy Group (REG), the largest producer of biomass-based diesel in the United States, to test the production of CO2e insets from feedstock draw areas for three production facilities. This partnership will allow for the exploration of connecting climate-smart commodities to renewable fuel markets.

Biofuels have the potential to be a key market for climate-smart commodities. For hard-to-decarbonize, liquid-fuel dependent sectors such as long-haul trucking, marine, aviation, and farm and construction equipment, biofuels can significantly reduce emissions immediately and well into the future. Many of the models used for biofuels contain substantial emissions at the farm level—as plants have become more efficient and innovative, reductions at the farm level are now the place to achieve substantial emissions reductions. The European Union's Renewable Energy Directive (RED) rewards biofuels made from climate-smart commodities. Crops produced on acres enrolled in the Program would be eligible for the RED incentives, creating additional value for farmers. The California Low Carbon Fuel Standard (LCFS) includes incentives for emissions reductions within some portions of the biofuels supply chain, but it does not currently recognize or distinguish feedstocks based on production practices.

⁵ "Economics of Soil Health On 100 Farms", Soil Health Institute, Sept 14, 2021

Market scalability: The global biofuels market in 2021 was valued at ~\$110 billion and is projected to grow to ~\$201 billion by 2030⁶. Growth is driven by regulatory and voluntary markets for renewable fuel and environmentally friendly energy sources. Today, the demand for biofuels is significantly greater than the supply. Even with breakthroughs in feedstock technologies, biofuel demand will likely continue to outstrip supply. Facilitating access to the biofuel market for climate-smart commodities represents a new and scalable market that can generate significant and sustainable demand.

Likelihood of long-term viability beyond project period: Global demand for biofuels is set to grow by 28% by 2026, according to the International Energy Agency. Governments and consumers are invested in ensuring the supply has lower emissions than the fuels it will replace. The Program's data, systems, and market framework will lay the groundwork for the long-term engagement between climate-smart commodities farmers and biofuels producers to best serve consumers and regulatory markets.

Ability to inform future USDA actions: Biofuels are a long-term, value-added market for U.S. crops. Developing systems and markets within biofuels for climate-smart commodities will be key for U.S. farmers, who will look to USDA for guidance. The data and information developed by the Program will be critical to informing farmers and USDA as the demand for climate-smart biofuels feedstocks grows. A continued focus on the market signals and relative cost of decarbonization can guide current and future regulatory processes to make it easier and more cost-effective to produce climate-smart commodities.

Ability to help farmers realize greater market returns: Incorporating climate-smart commodity feedstocks within the biofuels supply chain is a requirement for market access that generates market returns for climate-smart commodities. This Program will lay the groundwork for using climate-smart feedstocks for biofuels in two ways. First, through the use of COMET-Farm and GREET, the Program will document CO2e reductions and removals associated with the production of climate-friendly commodities. This will allow biofuel producers to document greater Scope 3 emission reductions. This will create value for farmers through the CO2e inset market of biofuel producers that is separate from and stacked on top of the added value from biofuel demand. Secondly, the Program will develop data and information for biofuel producers to engage in current and future RED markets and assist with a potential framework for the California LCFS marketplace and other emerging regulatory markets (e.g., Midwest Clean Fuel Policy) to account for farm based CO2e reductions and removals. This approach will further incent the production of climate-smart commodities for biofuels and position farmers for long-term engagement with biofuel producers.

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⁶ "Biofuels Market Size, Share & Growth Analysis Report, By Fuel Type (Biodiesel and Ethanol), By Feedstock (Coarse Grain, Sugar Crop, Vegetable Oil, Jatropha, Molasses) - Global Industry Analysis, Trends, Revenue, Segment Forecasts, Regional Outlook 2021 – 2030", Precedence Research

Milestone	Category	Measured By	Y1Q1	Y1Q2	Y1Q3	Y1Q4	Y2Q1	Y2Q2	Y2Q3	Y2Q4	Y3Q1	Y3Q2	Y3Q3	Y3Q4	Y4Q1	Y4Q2	Y4Q3	Y4Q4	Y5Q1	Y5Q2	Y5Q3	Y5Q4
Number of		Number of climate smart																				
commodity		commodity																				
marketing		marketing																				
channels		channels																				
utilized during	Commodity	used during																				
quarter	Marketing	quarter	3	3	3	3	3	3	3	3	3	3	3	3	- 3	3	- 3	3	3	3	3	3
Number of																						
producer		Number of																				
outreach and		outreach																				
marketing		marketing																				
channels		channels																				
utilized during		used during																				
CONTRACTOR PRODUCTION OF STREET	Marketing	quarter	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
теапу	Marketing	quarter							//=/													
cumulative		P4700031100																				
number of		Yearly																				
producer		cumulative																				
impressions		number of																				
via project		producer																				
leads and		impressions																				
project	Naulantina	via marketing	1.452	2.006	4.250	F 013	2.570	F 150	7 727	10.216	2.705	7.410	44 444	14 010	4.021	0.661	14 402	10 222	E 276	10 553	15.000	21 105
partners	Marketing	channels Once a year	1,453	2,906	4,359	5,813	2,579	5,158	7,737	10,316	3,705	7,410	11,114	14,819	4,831	9,661	14,492	19,323	5,276	10,553	15,829	21,105
		survey																				
		conducted																				
Producer		with																				
survey		contracted																				
conducted	Marketing	producers.	0	0	0	1	0	0	0	1	0	.0	0	1	0	0	(0	1	0	0	0	1
number or conservation																						
agronomists		Conservation																				
working on		agronomist																				
project and		FTEs working																				
	Project	to enroll																				
	Admin	producers	5	5	5	10	10	10	10	13	13	13	13	14	14	14	14	14	14	14	14	14
ALL TABLES TO A		completion																				
		of a																				
April 1st		customized																				
completion		farmer																				
date for		contract for																				
producer		Climate																				
contract	Face that you	Smart	4	ALA.	:NIA	NIA	31	N(A)	NIA	N/A	Sa.	N/A	N/A	NIA.	4	NIA	NIA	NI O	1	ALA	NEA.	TN/A
template	Enrollment	program Completion	1	NA	NA	NA	1	NA	NA	NA	(II	NA	NA	NA	1	NA	NA	NA	1	NA	NA	NA
April 1st		of the																				
completion		customized																				
date for		enrollment																				
producer		platform and																				
enrollment		USDA																				
platform	Enrollment	dashboards	1	NA	NA	NA	1	NA	NA	NA	1	NA	NA	NA	1	NA	NA	NA	1	NA	NA	NA

ATTACHMENT - BENCHMARKS TABLE

pic.																			ATTACHMEN	II - BENCH	MARKS TABL	
April 1st target date to open producer enrollment	Enrollment	Date when enrollment open annually	1	NA	NA	NA	1	NA	NA	.NA	1	NA	NA	NA	1	NA	NA	NA	1	NA	NA	NA
cumulative number of producer accounts within the enrollment platform	Enrollment	Number of producer accounts	194	484	484	484	344	860	860	860	494	1,235	1,235	1,235	644	1,610	1,610	1,610	704	1,759	1,759	1,759
cumulative number of underserved producer accounts within the SWOF digital	Enrollment	Number of underserved producers user accounts meeting underserved producer definition.	39	97	97	97	69	172			99	247	247	247			322	322		352		352
Percent of acres enrolled via recruiters	Enrollment	Acres recruited	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
Percent of producers providing compliance documents	Enrollment	Percent of producers will eligibility determinations	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%	25%	50%	75%	100%
Yearly cumulative acres under contract	Contracts	Number of acres under contract	77,500									395,182		790,364								1,125,620
Yearly cumulative early adopter acres under contract	Contracts	Number of early adopter acres under contract	38,750	77,500	116,250	155,000	38,750	77,500	116,250	155,000	38,750	77,500	116,250	155,000	38,750	77,500	116,250	155,000	38,750	77,500	116,250	155,000
Yearly cumulative total producer contracts	Contracts	Number of contracts	97	194	291	388	172	344	516	688	247	494	741	988	322	644	966	1,288	352	704	1,055	1,407
Yearly cumulative total underserved producer contracts	Contracts	Number of contracts with underserved producers	23	47	70	93	42	84	224	168	83	165	248	330	83	165	248	330	83	165	248	330
Percent of contracts with underserved	Contracts	Percent of contracts with underserved producers	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%

Car																			ATTACHME	NT - BENCHI	MARKS TABL	E
Yearly cumulative																						
fields under		Number of																				
Processing and the state of the	Contracts	fields	969	1,938	2,906	3,875	1,719	3,439	5,158	6,877	2,470	4,940	7,410	9,880	3,220	6,441	9,661	12,882	3,518	7,035	10,553	14,070
Annual CO2e reductions and		of CO2e outcomes produced (reductions and																				
removals	Outcomes	removals)	NA	NA	NA	209,250	NA	NA	NA	371,373	NA	NA	NA	533,496	NA	NA	NA	695,619	NA	NA	NA	759,794
Water quality outcomes (nitrogen)	Outcomes	Pounds of water quality outcomes (nitrogen)	NA	NA	NA	4,340,000	NA	NA	NA	7,702,548	NA	NA	NA	11,065,096	NA	NA	NA	14,427,658	NA	NA	NA	15,758,680
Water quality outcomes (phosphorus)	Outcomes	Pounds of water quality outcomes (phosphorus)	NA	NA	NA	310,000	NA	NA	NA	550,182	NA	NA	NA	790,364	NA	NA	NA	1,030,547	NA	NA	NA	1,125,620
Measurement tools utilized	MRV	Number of measuremen t tools utilized during the quarter	3	4	5	6	33	4	5	7	.3	4	5	7	3	4	:5	7	n	4	5	7
Percent of fields with remote sensing verification	MRV	Percent of contracted fields analyzed	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%	50%	0%	0%	0%	50%	0%	0%	0%	50%
Percent of fields with soil samples collected and analyzed	MRV	Number of field with soil samples collected and analyzed		0%	0%	10%	0%	0%	0%	10%	0%	0%	0%	10%	0%	0%	0%	10%	0%	0%	0%	10%
Percent of fields visited to verify practice		Percent of fields visited	0%	0%	0%	100%	0%	0%	0%	100%	0%	0%	0%	100%			0%	100%	0%			
USDA sourced producer payments made during	Producer payment	Payment amount to producers	NA.			\$ 4,241,048		NA		\$ 7,526,934		NA		\$ 10,812,819				\$ 14,098,705				\$ 15,413,059
sourced producer payments made during	Producer payment	Payment amount to producers	NA	NA	NA.	\$ 5,058,952	NA	NA	NA	\$ 8,978,533	NA	NA	NA	\$ 12,898,115	:NA	NA	NA	\$ 16,817,697	NA,	NA	NA	\$ 18,385,530

****	7.0	270			221	157		76	rie -			17							ATTACHME	NT - BENCH	MARKS TABI	LE
Quarterly																						
reimbursemen																						
t request		Reimburseme																				
submitted to	Project	nt request																				
USDA	Admin	submitted	1	1	1 1		1 1	1	1	Î	1 1	1	1	1	1	1	1	1	1	1	1	1

Climate-Smart Practices and Limitations

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

NRCS Practice Code (if applicable)	Practice Name							
329	Residue and Tillage Management, No-Till							
345	Residue and Tillage Management, Reduced Till							
340	Cover Crop							
590	Nutrient Management							
328	Conservation Crop Rotation							
512	Pasture and Hay Planting							



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
	methods doed	

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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	
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		
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		
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	
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	
Field official CH4 ER	Official estimate of total CH4 emission reductions for field	
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	
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	3517	
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 An		
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		
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	oved wildlife habitat Indicator that project tracks improvements in wildlife habitat		
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

Troject summary			
Commodity type	ander statu den stuppingt til ge til de s gener de		
Data element name: Commodity type	Reporting question: What climate-smart commodity types are produced by this project?		
5 00 0	ed by the project. These commodities include those for whom		
N	r other types of marketing support. See full list of commodity options		
in Appendix B. List one commodity per rov			
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values: FSA commodity list		
Logic: None – all respond	Required: Yes		
Data collection level: Project	Data collection frequency: Quarterly		
Commodity sales			
Data element name: Commodity sales	Reporting question: Did project activities result in sales this quarter of the commodity(ies) produced by this project?		
Description: Indicator of sales of commod	ity(ies) related to project activities. If sales are reported, complete the		
Marketing Activities worksheet (Table 3) a	s part of the quarterly performance report.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	• Yes		
	• No		
Logic: None – all respond	Required: Yes		
Data collection level: Project	Data collection frequency: Quarterly		
Farms enrolled			
Data element name: Farms enrolled	Reporting question: Did the project enroll any producers or fields this quarter?		
	folled producers or fields. If enrollment activities occurred this quarter, and Enrollment worksheets (Tables 4 and 5) as part of the quarterly		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	• Yes		
	No		
Logic: None – all respond	Required: Yes		
Data collection level: Project	Data collection frequency: Quarterly		
GHG calculation methods			
Data element name: GHG calculation	Reporting question: What methods is the project using to		
methods	calculate GHG benefits?		
Description: List the way(s) that GHG bene	efits are being measured and calculated by the project this quarter.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Models		
	Direct field measurements		
Logic: None – all respond	Both Required: Yes		
A THE CONTRACT OF THE CONTRACT	The distance of the same of th		
Data collection level: Project	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 CO₂eq Allowed values: 0-10,000,000

Logic: None – all respond Required: Yes

Data collection level: Project Data collection frequency: Quarterly

Cumulative carbon stock

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

stock sequestered to date?

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 CO₂eq 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 CO₂ 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 CH₄ = 25 tons of CO₂eq.

Data type: Decimal Select multiple values: No

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

CO₂eq

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

CO₂eq

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

Required: Yes

Logic: Respond if >0 to 'Offsets produced'

Data collection level: Project

Data collection frequency: Quarterly

Insets produced

Data element name: Insets produced Reporting question: How many carbon insets have been

produced in the project?

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

Data type: Decimal Select multiple values: No

Measurement unit: Metric tons CO₂eq 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: DecimalSelect multiple values: NoMeasurement unit: DollarsAllowed 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

	In	in	ue	115	-
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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	d the recipient began formally partnering on the project
Data type: Date	Select multiple values: NA
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023 - 12/31/2030
Logic: No response for recipient	Required: Yes
Data collection level: Partner	Data collection frequency: Partnership initiation
Partnership end date	
Data element name: Partnership end date	Reporting question: When did the partnership end?
Description: Date that the partner organization and	d 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?
Description: A new partnership means that the rec	ipient and the partner organization have not had a formal
	ipient and the partner organization have not had a formal
Description: A new partnership means that the rec working relationship (under contract or on a grant)	ipient and the partner organization have not had a formal prior to the start of the project.
Description: A new partnership means that the rec working relationship (under contract or on a grant) Data type: List	ipient and the partner organization have not had a formal prior to the start of the project. Select multiple values: No Allowed values: Yes
Description: A new partnership means that the rec working relationship (under contract or on a grant) Data type: List	ipient and the partner organization have not had a formal prior to the start of the project. Select multiple values: No Allowed values: Yes No
Description: A new partnership means that the rec working relationship (under contract or on a grant) Data type: List Measurement unit: Category	ipient and the partner organization have not had a formal prior to the start of the project. Select multiple values: No Allowed values: Yes No I don't know
Description: A new partnership means that the rec working relationship (under contract or on a grant) Data type: List Measurement unit: Category Logic: No response for recipient	ipient and the partner organization have not had a formal prior to the start of the project. Select multiple values: No Allowed values: Yes No I don't know Required: Yes
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Description: A new partnership means that the rec 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	ipient and the partner organization have not had a formal 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
Description: A new partnership means that the rec working relationship (under contract or on a grant) Data type: List Measurement unit: Category Logic: No response for recipient Data collection level: Partner	ipient and the partner organization have not had a formal 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
Description: A new partnership means that the recovery 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 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	ipient and the partner organization have not had a formal 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? at the partner has requested reimbursement for from the and of the reporting quarter. For each quarter's data entry, the ne amount of funds requested in the reporting quarter. If
Description: A new partnership means that the recover 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 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 present to the partnership to the present the recipient from the present the value from the present the partnership to the present the recipient from the present the value from t	ipient and the partner organization have not had a formal 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? At the partner has requested reimbursement for from the end of the reporting quarter. For each quarter's data entry, the he amount of funds requested in the reporting quarter. If evious quarter.
Description: A new partnership means that the recovering 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 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 there are no changes, report the value from the predata type: Decimal	ipient and the partner organization have not had a formal 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? At the partner has requested reimbursement for from the and of the reporting quarter. For each quarter's data entry, the he amount of funds requested in the reporting quarter. If evious quarter. Select multiple values: NA
Description: A new partnership means that the rec 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 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 present to the partnership to the present the sum of all previous entries plus the there are no changes, report the value from the present the sum of the partnership to the present the sum of all previous entries plus the present the sum of all previous entries plus the sum of all previous entries p	ipient and the partner organization have not had a formal 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? At the partner has requested reimbursement for from the end of the reporting quarter. For each quarter's data entry, the he amount of funds requested in the reporting quarter. If evious quarter.

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Total	matc	h contri	buti	on

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

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

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

Required: Yes Logic: None - all respond

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

Allowed values: Measurement unit: Category

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

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

Logic: None - all respond Required: Yes

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 type: List

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. 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

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 Allowed values: 1-500 Measurement unit: Count

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

"other" is chosen, use the additional column to enter the appropriate unit as free text.

Data type: List Select multiple values: No

Measurement unit: Category Allowed values:

Per bale (500 pounds)

Per bushel

Per carcass pound

Per gallon

Per kilogram

Per linear board foot

Per live pound

Per metric ton

Per ounce

Per short ton

Other (specify)

Logic: None – all respond Required: Yes

Data collection level: Project Data collection frequency: Quarterly

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Price premium to producer

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

provided to the producer for the commodity sold in this producer

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

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

Data type: List Select multiple values: No

chosen, use the additional column to enter other marketing methods as free text

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)

Logic: None - all respond 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
- Partnership network or project partner
- Other (specify)
 Required: Yes

Logic: None – all respond

Data collection level: Project 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, underservedYes, 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
- 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.

Data type: List Select multiple values: No

Measurement unit: Category

Allowed values:

- Alpacas
- Beef cows
- Beefalo
- Buffalo or bison
- Chickens (broilers)
- Chickens (layers)
- Dairy cows
- Deer
- Ducks
- Elk
- Emus
- Equine
- Geese
- Goats
- Honeybees
- Llamas
- Reindeer
- Sheep
- Swine
- Turkeys
- Other (specify)

Required: Yes

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 Allowed values: 1-10,000,000

Logic: Respond if 'Total livestock area' >0

Data collection level: Producer

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.

Data type: List Select multiple values: No

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

Required: Yes Logic: None - all respond

Data collection level: Producer

Data collection frequency: Initial enrollment

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Data element name: Producer outreach 1- 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 Re

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

Uniq	IIA	II)c
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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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Commodity category			
Data element name: Commodity category	Reporting question: What category of		
SON IN DIEGO SECTION MESS VIGANO BY NO NO ISSUE RESIDENCE	commodity(ies) is (are) produced from this field		
Description: Category of commodity(ies) produced in fie	ld enrolled in the project		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	 Crops 		
	 Livestock 		
	 Trees 		
	 Crops and livestock 		
	 Crops and trees 		
	 Livestock and trees 		
B	 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		
actions the other creats and all all all all all all all all all al	produced from this field?		
Description: Type of commodity produced in field enrolled			
worksheet provides a drop-down list of the allowed value	es. Choose the appropriate value. Enter additional		
commodities in subsequent rows.	Colort multiple values No		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values: FSA commodity list		
Logic: None – all respond	Required: Yes		
Data collection level: Field	Data collection frequency: Initial enrollment		
Baseline yield	=======================================		
Data element name: Baseline yield	Reporting question: What is the baseline yield of this field?		
Description: Average annual yield of commodity in 3 year	rs prior to enrollment. Provide yield for the enrolled		
field if possible. If not at field level, provide average annu	and the state of t		
Data type: Decimal	Select multiple values: No		
Measurement unit: Production per acre or animal	Allowed values: .01-100,000		
The same of the sa	Allowed values: .01-100,000 Required: Yes		

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Baseline yiel	C	unit
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Data element name: Baseline yield unit Reporting question: Baseline yield unit

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

column to enter the appropriate yield unit as free text. Select multiple values: No Data type: List

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

Allowed values: Measurement unit: Category

> Enrolled field Whole 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?

Select multiple values: No Data type: List

Allowed values: Measurement unit: Category

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

Data element name: Field tillage Reporting question: What is this field's tillage history?

Description: Prior to enrollment, what was the most common tillage approach during the past 3 years?

Data type: List Select multiple values: No

Measurement unit: Category

Logic: None - all respond

Allowed values:

None

Conventional, inversion

Conventional, vertical

No-till, direct seed

Reduced till, inversion

Reduced till, vertical

Strip till

Other

Logic: None - all respond Required: Yes

Data collection level: Field Data collection frequency: Initial enrollment

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

farm implemented this CSAF practice (combination) previously?

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 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:

Yes
 No

I don't know
 Required: Yes

Data collection level: Field Data collection frequency: Initial enrollment

Practice past use - this field

Logic: None - all respond

Data element name: Practice past use - this

field

Reporting question: Have this CSAF practice (combination)

been implemented previously in this field?

Description: Prior to enrollment, had this (these) CSAF practice(s) been used in this field in the in the past 3 years? Enter yes if all of the practices had been used previously in this field; enter some if multiple practices are being implemented and one or more, but not all of the practices had been used previously in this field; and enter no if none of the practices had been used previously in this field.

Data type: List 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	arm 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 Re 1-3 pro

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

Data collection level: Producer

Required: Yes

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

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 All

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

Logic: None – all respond

Data collection level: Producer

Data collection frequency: Quarterly

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Pay	men	t on	harvest
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Data element name: Payment on harvest

Reporting question: What portion of the financial incentive is provided to the producer upon harvest of the commodity?

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

Data type: List Select multiple values: No

Measurement unit: Category

Allowed values:Full paymentPartial payment

• No payment Logic: None – all respond Required: Yes

Data collection level: Producer Data collection frequency: Quarterly

Payment on MMRV

Data element name: Payment on MMRV

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

Description: Any incentive payment provided to the producer upon completing the annual MMRV requirements included in the contract. Full payment means the full incentive amount for any contract held by the producer is paid upon MMRV being complete. Partial payment means that only part of the full incentive amount for any contract held by the producer is paid upon MMRV being complete. No payment means that none of the full incentive amount for any contract held by the producer is paid upon MMRV being complete.

Data type: List Select multiple values: No

Measurement unit: Category

Allowed values:

Full paymentPartial paymentNo payment

Logic: None – all respond

Data collection level: Producer

Required: Yes

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

10000000000	Tener	
Uniq	ue	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	f 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

Logic: None – all respond Required: Yes

Data collection level: Field Data collection frequency: Quarterly

Incentive per acre or head

Data element name: Incentive per acre or head Reporting question: Is this field receiving a per-acre or

per-head incentive?

Description: Is this field receiving an incentive payment to implement a specific CSAF practice or set of practices

on a per-acre or per-head (livestock) basis?

Data type: List Select multiple values: No

Measurement unit: Category Allowed values:

Yes

• No

I don't know

Logic: None – all respond Required: Yes

Data collection level: Field Data collection frequency: Quarterly

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

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

Gallons

Head

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

i ci inicai ioc

Per pound

Per ton

Other (specify)

Logic: None – all respond

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

Required: Yes

incentives.

Data type: Integer Select multiple values: No
Measurement unit: Percent Allowed values: 0-100

Logic: None – all respond Required: Yes

Data collection level: Field Data collection frequency: Quarterly

Field GHG monitoring

Data element name: Field GHG monitoring Reporting question: How were GHG impacts monitored in this

1-3 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 field?

Description: Up to the top three forms of reporting on GHG benefits as part of MMRV requirements. Reporting is defined as documenting and sharing monitoring and measurement results with project partners, the recipient, and any third-party verification organization. Include up to 3 methods, based on which methods are most commonly used for this field. The worksheet provides three columns with a drop-down list of the allowed values. Choose one value for each column. If fewer than 3 GHG reporting methods are used, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other GHG reporting methods as free text.

Data type: List Select multiple values: No

Measurement unit: Category Allowed values:

- Automated devices
- Email
- Mobile app
- Paper
- Third-party actors
- Website
- Other (specify)

Logic: None – all respond Required: Yes

Data collection level: Field Data collection frequency: Quarterly

Field GHG verification

Data element name: Field GHG verification Reporting qu

Reporting question: How was implementation of practices to reduce GHG emissions verified for this field?

Description: Up to the top three of verification of GHG benefits as part of MMRV requirements. Verification is defined as independent confirmation that measurement, monitoring and reporting information are complete, accurate and reliable. Include up to 3 methods, based on which methods are most commonly used for this field. The worksheet provides three columns with a drop-down list of the allowed values. Choose one value for each column. If fewer than 3 GHG verification methods are used, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other GHG verification methods as free text.

Data type: List Select multiple values: No

Measurement unit: Category Allowed values:

- Artificial intelligence
- Computer modeling
- Recipient audit
- Photos
- Record audit
- Satellite imagery
- Site or field visit
- Third-party audit
- Other (specify)

Logic: None – all respond Required: Yes

Data collection level: Field Data collection frequency: Quarterly

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Field GHG calculations

Data element name: Field GHG 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 CO₂eq 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 CO₂eq 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 CO₂ 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 CH₄ = 25 tons of CO₂eq.

Data type: Decimal Select multiple values: No

Measurement unit: Metric tons CH4 reduced in

CO₂eq

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

CO₂eq

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 CO₂eq 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 CO₂eq Allowed values: 0-10,000,000

Logic: None – all respond Required: Yes

Data collection level: Field Data collection frequency: Quarterly

Other field measurement

Data element name: Other field 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

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Farm ID	n 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	ty of field County name (must match FSA farm enrollment data)	

Commodity type

Data element name: Commodity type 1-6 Reporting question: What type of commodity(ies) is produced

from this field?

Description: Type of commodity(ies) produced in field enrolled in the project. See full list of commodity options in Appendix B. The worksheet provides multiple columns with drop-down lists of the allowed values. Choose

one value for each column. Leave unnecessary columns blank

Data type: List Select multiple values: No

Measurement unit: Category Allowed values: FSA commodity list

Logic: None – all respond Required: If project calculates GHG benefits using multiple

methods

Data collection level: Field Data collection frequency: Annual

Practice type

Data element name: Practice type 1-7 Reporting question: What CSAF practice is being implemented

by this project?

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

Data type: List Select multiple values: No

Measurement unit: Category Allowed values: See list in Appendix A

Logic: None – all respond Required: If project calculates GHG benefits using multiple

methods

Data collection level: Field Data collection frequency: Annual

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GHG model

Data element name: GHG model Reporting question: What model was used for alternate calculation of GHG benefits?

Description: Select the model used for the alternate calculation of the field's GHG benefits.

Data type: List Select multiple values: No

Measurement unit: Category

Allowed values:

- ACC Calculator
- Agriculture, Forestry and Other Land Use (AFOLU) Carbon Calculator
- AIRES
- APEX
- Bowen Ratio Energy Balance
- Carat-Calculator
- CArPE
- CDFA web-based calculator
- COMET-Farm
- COMET-Planner
- CoolFarm
- Cover Crop Explore
- CropTrak
- 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	Reporting question: 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?		
Description: Total greenhouse gas emission rusing an alternate model.	reductions from practice implementation in the field estimated		
Data type: Decimal	Select multiple values: No		
Measurement unit: Metric tons CO₂eq	Allowed values: 0-10,000,000		
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods		
Data collection level: Field	Data collection frequency: Annual		
Total carbon stock estimated			
Data element name: Total carbon stock estimated Description: Total change in carbon stock balalternate model. Conversion rate is one ton or	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.		
Data type: Decimal	Select multiple values: No		
Measurement unit: Metric tons CO₂eq	Allowed values: 0-10,000,000		
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods		
Data collection level: Field	Data collection frequency: Annual		
Total CO2 estimated	* "		
Data element name: Total CO2 estimated	Reporting question: What is the alternate estimate of the field' total CO2 emission reductions?		
Description: 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 ₂	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 of the field's total CH4 emission reductions?	
Description: Total methane emission reductions based on praction an alternate model. Conversion rate is one ton of CH ₄ = 25 tons		
Data type: Decimal	Select multiple values: No	
Measurement unit: Metric tons CH4 reduced in CO ₂ eq	Allowed values: 0-10,000,000	
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods	
Data collection level: Field	Data collection frequency: Annual	
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?	
Description: Total nitrous oxide emission reductions based on using an alternate method. Conversion rate is one ton of N_2O =	V	
Data type: Decimal	Select multiple values: No	
Measurement unit: Metric tons N2O reduced in CO2eq	Allowed values: 0-10,000,000	
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods	
Data collection level: Field	Data collection frequency: Annual	

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GHG Benefits - Measured

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Ulliq	ue	103

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

GHG measurement method

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 samplesSoil 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: Text

Select multiple values: No

Measurement unit: NA

Allowed values: Free text

Logic: None – all respond

Required: If applicable

Data collection level: Field Data collection frequency: Annual

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Measurement start date	
Data element name: Measurement start date	Reporting question: On what date did the
	measurement start?
and the state of t	it was a single point in time, use the same date for start date over a time period, use the date that the measurements first

	Company of the program of the state of the s
Data type: Date	Select multiple values: No

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

Logic: None – all respond Required: If a project conducts soil samples or takes

carbon stock or greenhouse gas emission

measurements in this field

Data collection level: Field Data collection frequency: Annual

Measurement end date

Data element name: Measurement end date Reporting question: On what date did the

measurement end?

Description: Date that the measurements began. If it was a single point in time, use the same date for start date and end date. If multiple measurements took place over a time period, use the date that the measurements

were completed.

Data type: Date Select multiple values: No

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

Logic: None – all respond Required: If a project conducts soil samples or takes

carbon stock or greenhouse gas emission

Data collection level: Field Data collection frequency: Annual

Total CO2 reduction calculated

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

the total measured CO2 emission reductions?

Description: Total annual CO2 emission reductions based on practice implementation in the field calculated

from in-field measurements.

Data type: Decimal Select multiple values: No

Measurement unit: Metric tons 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 measured **Reporting question:** What is the total amount of carbon sequestered based on repeat measurements

in this field?

Description: Change in carbon stock based on practice implementation in the field calculated from repeat soil sampling in this field. (Results for initial field soil samples should be reported in the 'Soil sample result' and

'Measurement type" columns.) Conversion rate is one ton of carbon = 3.67 tons of CO₂eq.

Data type: Decimal Select multiple values: No

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

Logic: None – all respond Required: If a project conducts soil samples or takes

carbon stock measurements in this field

Data collection level: Field Data collection frequency: Annual

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Total CH4 reduction calculated	
Data element name: Total CH4 reduction calculated	Reporting question: What are the total measured CH4 emission reductions?
Description: Total annual methane emission reductions b from in-field measurements. Conversion rate is one ton or	
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 S S
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons N2O reduced in CO ₂ eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: If a project conducts soil samples or takes carbon stock or greenhouse gas emission measurements in this field
Data collection level: Field	Data collection frequency: Annual
Soil sample result	
Data element name: Soil sample result	Reporting question: What is the numeric result from this soil sample?
Description: Results of measurement(s) taken to determine in a specified volume of soil).	ne the carbon stock of a soil (the tons of carbon found
Data type: Decimal	Select multiple values: No
Measurement unit: Amount	Allowed values: .00001-100,000
Logic: None – all respond	Required: If a project conducts soil samples in this field
Data collection level: Field	Data collection frequency: Annual

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Soil sample result unit

Data element name: Soil sample result unit Reporting question: What is unit for the soil sample result?

Description: Unit for the corresponding soil sample result. The worksheet provides a drop-down list of choices for this data element. If "other" is chosen, use the additional column to enter the appropriate yield unit as free

text.

Data type: List Select multiple values: No

Measurement unit: Category Allowed values:

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

					-	
	ni	~		0	п	c
u		ч	u	c	u	э

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

Environmental benefits

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

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:

Yes
 No

I don't know

Logic: Respond if yes to 'Environmental

benefits'

Required: Yes

Data collection level: Field Data collection frequency: Annual

Reduction in nitrogen loss amount

Data element Reporting question: How much reduction in nitrogen losses

name: Reduction in nitrogen loss amount 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	
5 전에 에어에 대접을 가득했는데, 사용하다 있는 요즘 없는데, 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	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:
model and a second	Kilograms
	Metric tons
	 Pounds
	Other (specify)
Logic: Respond if yes to 'Reduction in nitrogen loss'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Reduction in nitrogen loss purpose	The state of the s
Data element name: Reduction in nitrogen	Reporting question: What is the purpose of tracking reduction in
loss purpose	nitrogen losses?
191	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 insetsProducing offsets
	I don't know
	Other (specify)
Logic: Respond if yes to 'Reduction in nitrogen loss'	Required: Yes
Data collection level: Project	Data collection frequency: Annual
Reduction in phosphorus loss	
Data element name: Reduction in	Reporting question: Are reductions in phosphorus losses being
phosphorus loss	tracked in the field?
using some form of monitoring and reporting	norus losses in the enrolled field. Tracking means at a minimum
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
Weasurement unit. Category	Yes
	• No
	I don't know
Logic: Respond if yes to 'Environmental benefits'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Reduction in phosphorus loss amount	
Data element name: Reduction in	Reporting question: How much reduction in phosphorus losses
phosphorus loss amount Description: Total amount of reduction in ph	have been measured in the field? osphorus losses that is measured in the field.
Data type: Decimal	Select multiple values: No
Measurement unit: Amount	Allowed values: 0-1,000,000
	Required: Yes
Logic: Respond if yes to 'Reduction in phosphorus loss'	Control of the Contro

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Logic: Respond if yes to 'Environmental

Data collection level: Field

benefits'

Reduction in phosphorus loss amount unit	
Data element name: Reduction in phosphorus loss amount unit Description: Unit for the total amount of re "other" is chosen, enter the appropriate va	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values: Kilograms Metric tons Pounds Other (specify)
Logic: Respond if yes to 'Reduction in phosphorus loss'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Reduction in phosphorus loss purpose	
Data element name: Reduction in phosphorus loss purpose Description: Purpose of tracking reduction the appropriate value as free text in the ad Data type: List Measurement unit: Category Logic: Respond if yes to 'Reduction in phosphorus loss' Data collection level: Field	Reporting question: What is the purpose of tracking reductions in phosphorus losses? in phosphorus losses in the enrolled field. If "other" is chosen, enter ditional column. Select multiple values: No Allowed values: Commodity marketing Producing insets Producing offsets I don't know Other (specify) Required: Yes Data collection frequency: Annual
Other water quality	10 10 10 10 10 10 10 10 10 10 10 10 10 1
Data element name: Other water quality	Reporting question: Are other water quality metrics being tracked in the field?
Description: Project tracking of other wate	r quality metrics in the enrolled field. Tracking means at a minimum ng that can quantify benefits.

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Required: Yes

Data collection frequency: Annual



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?
measured in the field. If "other" is chosen, e	etric (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)
Logic: Respond if yes to 'Other water quality'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Other water quality amount	
Data element name: Other water quality	Reporting question: How much reduction in other water quality
amount	metrics have been measured in the field?
Description: Total amount of reduction in o	ther water quality metrics that is measured in the enrolled field.
Data type: Decimal	Select multiple values: No
Measurement unit: Amount	Allowed values: 0-1,000,000
Logic: Respond if yes to 'Other water quality'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Other water quality amount unit	
Data element name: Other water quality	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:
	Degrees F
	Kilograms
	Kilograms per liter
	Metric tons
	Pounds Other (annuity)
Larie Pospond if yes to Other water	Other (specify) Partial Ves
Logic: Respond if yes to 'Other water quality'	Required: Yes
Data collection level: Field	Data collection frequency: Annual

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Other water quality purpose	
Data element name: Other water quality purpose	Reporting question: What is the purpose of tracking other water quality benefits?
Description: Purpose of tracking other wate	r quality benefits in the enrolled field. If "other" is chosen, enter the
appropriate value as free text in the addition	nal column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	 Commodity marketing
	 Producing insets
	 Producing offsets
	I don't know
Lasia Barra differenta (Otherwooder	Other (specify)
Logic: Respond if yes to 'Other water quality'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Water quantity	
Data element name: Water quantity	Reporting question: Is water conservation being tracked in the field?
The state of the s	or reduction in use in the enrolled field. Tracking means at a
minimum using some form of monitoring an	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	• Yes
	• No
	I don't know
Logic: Respond if yes to 'Environmental benefits'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Vater quantity amount	Data conceilor requency. Annual
Data element name: Water quantity	Reporting question: How much water conservation has been
amount	measured in the field?
ADDITION OF THE PROPERTY OF TH	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
	Data collection frequency. Airida
Water quantity amount unit Data element name: Water quantity	Reporting question: What is the unit for the amount of water
amount unit	conservation measured in the field?
	ater conservation or reduced use that is measured and reported in
	the appropriate value as free text in the additional column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
anna marana and a sha maka anna a sa marana anna anna ann an Anna ann an Anna an Anna an Anna an Anna an Anna a	Acre-feet
	Cubic feet
	Other (specify)
Logic: Respond if yes to 'Water quantity'	Required: Yes
Data collection level: Field	Data collection frequency: Annual

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Water quantity purpose Data element name: Water quantity Reporting question: What is the purpose of tracking water conservation? Description: Purpose of tracking water conservation or reductions in water use in the enrolled field. If "other" is chosen, enter the appropriate value as free text in the additional column. Data type: List 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 'Water quantity' Required: Yes Data collection level: Field Data collection frequency: Annual Reduced erosion Data element name: Reduced erosion Reporting question: Is reduced soil erosion being tracked in the Description: Tracking of reduced soil erosion in the enrolled field. Tracking means at a minimum using some form of monitoring and reporting that can quantify benefits. Data type: List Select multiple values: No Measurement unit: Category Allowed values: Yes No I don't know Logic: Respond if yes to 'Environmental Required: Yes benefits' Data collection level: Field Data collection frequency: Annual Reduced erosion amount Data element name: Reduced erosion Reporting question: How much erosion reduction has been measured in the field? amount Description: Total amount of erosion reduction that is measured in the enrolled field. Data type: Decimal Select multiple values: No Measurement unit: Amount Allowed values: 0-1,000,000 Logic: Respond if yes to 'Reduced erosion' Required: Yes Data collection level: Field Data collection frequency: Annual Reduced erosion amount unit Data element name: Reduced erosion unit Reporting question: What is the unit for the amount of erosion reduction measured? Description: Unit for the total amount of erosion reduction from enrolled fields that is measured and reported by the project. If "other" is chosen, enter the appropriate value as free text in the additional column. Data type: List Select multiple values: No Measurement unit: Category Allowed values: Tons

Logic: Respond if yes to 'Reduced erosion'

Data collection level: Field

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Required: Yes

Other (specify)

Data collection frequency: Annual

Reduced erosion purpose	
Data element name: Reduced erosion	Reporting question: What is the purpose of tracking reduced
purpose	erosion in the field?
- De-Marian Programment (1997) - Company (1997)	osion the enrolled field. If "other" is chosen, enter the appropriate
value as free text in the additional column.	- Annual Make and Law Ha
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Commodity marketing
	Producing insets
	 Producing offsets
	I don't know
V - V - W	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	Reporting question: Is reduced energy use being tracked in the field?
하는 하다면 그녀님은 나이다 하는 것이 없는 사람들이 가득하는 것이 그렇게 하는 것이 되었다면 하는 것이다.	in the enrolled field. Tracking means at a minimum using some
form of monitoring and reporting that can q	Western Wilder and Secretary State To the Control of the Control o
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	• Yes
	• No
	 I don't know
Logic: Respond if yes to 'Environmental benefits'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Reduced 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
Logic: Respond if yes to 'Reduced energy	Required: Yes
use'	negatives.
Data collection level: Field	Data collection frequency: Annual
Reduced energy use amount unit	2 V
Data element name: Reduced energy use	Reporting question: What is the unit for the energy use
unit	reduction measured in the field?
Description: Unit for the total amount of en	ergy use reduction that is measured in the enrolled field. If "other"
is chosen, enter the appropriate value as fre	e text in the additional column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
security constitution (ETE) Andropse Direct 1 1 2 Decided Made Made	Kilowatt hours
	Other (specify)
Logic: Respond if yes to 'Reduced energy use'	Required: Yes
Data collection level: Field	Data collection frequency: Annual

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Reduced energy use purpose

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 marketing
 Producing insets
 Producing 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:

Yes
 No

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 el	ement name: Avoided land

Reporting question: What is the purpose of tracking avoided

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

conversion'

SS 594

conversion purpose

Required: Yes

Data collection level: Field Data collection frequency: Annual

Improved wildlife habitat

Data element name: Improved wildlife Reporting question: Are improvements to wildlife habitat being

habitat tracked in the field?

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:

YesNo

I don't know

Logic: Respond if yes to 'Environmental

benefits'

Required: Yes

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

habitat'

Required: Yes

Data collection level: Field Data collection frequency: Annual

Improved wildlife habitat amount unit

Data element name: Improved wildlife Reporting question: What is the unit for the amount of improved

habitat unit wildlife habitat measured in the field?

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

Measurement unit: Category Allowed values:

AcresLinear feet

Other (specify)

Logic: Respond if yes to 'Improved wildlife

habitat'

Required: Yes

Data collection level: Field Data collection frequency: Annual

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Data collection level: Field

Improved wildlife habitat purpose		
Data element name: Improved wildlife habitat purpose Description: Purpose of tracking improved w	Reporting question: What is the purpose of tracking improved wildlife habitat in the field? I wildlife habitat in the enrolled field. If "other" is chosen, enter the	
appropriate value as free text in the addition	nal 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 'Improved wildlife habitat'	Required: Yes	

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 questions for select CSAF practices

Practice name and code	Follow-up question	Options (select one)
Alley Cropping (CPS 311)	Species category (select most common/extensive type if using more than one)	Coniferous trees Deciduous trees Shrubs
	Species density (number of trees planted per acre)	1-10,000
Anaerobic Digester (CPS 366)	Waste storage system prior to installing anaerobic digester	Aerobic lagoon Anaerobic digester (complex mix) with energy generation Anaerobic digester (plug flow) with energy generation Anaerobic lagoon Composting Covered lagoon (no energy generation or flaring Covered lagoon with energy generation Covered lagoon with 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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		2
		Coal
		Diesel
		Electricity Gasoline
	Fuel type before installation	Kerosene
		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		Other (specify)
mprovement (CPS 372)		Coal
		Diesel
		Electricity
		Gasoline
	Fuel type after installation	Kerosene
	Fuel type after installation	Liquified petroleum gas (LPG)
		Natural gas
		Propane
		Wood
		Other (specify)
	Fuel amount after installation	0-1,000,000
		Cubic feet (natural gas)
	Private about the total office.	Gallons (diesel, gasoline, propane, LPG, kerosene)
	Fuel amount unit after	Kilowatt-hours (electricity)
	installation	Pounds (wood, coal)
		Other (specify)
		Brassicas
Consequation Course	Species category (select most	Grasses
Conservation Cover	common/extensive type if	Legumes
(CPS 327)	using more than one)	Non-legume broadleaves
	-042 XX	Shrubs

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15-12-14 H1000A41-EX>0-2-15-16-1		
		Brassica
		Broadleaf
	Consequence	Cool season
	Conservation crop type	Grass
		Legume
		Warm season
	-	Added perennial crop
© 192 521 \$1777 mg/	Change implemented	Reduced fallow period
Conservation Crop Rotation		Both
(CPS 328)	Z	Conventional (plow, chisel, disk
		No-till, direct seed
		Reduced till
	Conservation crop rotation tillage type	Strip till
		None
	· · ··································	Other (specify)
	Total conservation crop rotation length in days	1-120
	Strip width (feet)	1-100
Contour Buffer Strips (CPS	-	Grasses
332)	Species category	Forbs
	So tobastronage Determined the	Mix
		Brassicas
	Species category (select most	Forbs
	common/extensive type if using more	Grasses
	than one)	Legume
	AMERICA SOLECTION	Non-legume broadleaves
	1.5	Grazing
	Cover crop planned management	Haying
Cover Crop (CPS 340)	cover crop planned management	Termination
	25-	Burning
		Herbicide application
		Incorporation
	Cover crop termination method	56
		Mowing
		Rolling/crimping
		Winter kill/frost
		Grass
is a supplemental transport of the control of the c	Species category (select most	Grass legume/forb mix
Critical Area Planting (CPS	common/extensive type if using more	Herbaceous woody mix
342)	than one)	Perennial or reseeding
	omercano apropor	Shrubs
		Trees
	Crude protein (percent)	0-100
	Fat (percent)	0-100
Feed Management (CPS 592)	U	Chemical
and and an interest and an analysis of the second and the second a	Food additions/averlanest	Edible oils/fats
	Feed additives/supplements	Seaweed/kelp
		Other (specify)
	784 - 37 - 107 - 101 - 101 - 102 - 1	Forbs
Field Border (CPS 386)	Species category (select most	Grasses
	common/extensive type if using more	
Field Border (CPS 386)	than one)	Mix

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	Strip width (feet)	20-1,000
Filter Strip (CPS 393)	Species category (select most common/extensive type if using more than one)	Forbs Grasses Mix Shrubs
Forest Farming (CPS 379)	Land use in previous year	Forest Multi-story cropping Pasture/grazing land 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 common/extensive type if using more than one)	Flowering Plants Forbs Grasses
Hedgerow Planting (CPS	Species category (select most common/extensive type if using more than one)	Grasses Shrubs Trees
422)	Species density (number of trees planted per acre)	1-10,000
Herbaceous Wind Barriers (CPS 603)	Species category (select most common/extensive type if using more than one)	Forbs Grasses Mix Shrubs
22111212121212121	Barrier width (feet)	1-1,000
	Number of rows	1-100
Mulching (CPS 484)	Mulch type	Gravel Natural Synthetic 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	Species category (select most common/extensive type if using more than one)	Cool-season broadleaf Cool-season grass Warm-season broadleaf Warm-season grass
(CPS 512)	Termination process	Grazing Haying (i.e., cutting and baling) Other (specify)
Prescribed Grazing (CPS 528)	Grazing type	Cell grazing Deferred rotational Management intensive Rest-rotation

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

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	Separation type	Chemical (e.g., salts, polymers) Mechanical (e.g., screens, presses)
Wests Constant Facility	Separation type	
Waste Separation Facility	D	Settling basin
(CPS 632)	NA	Bedding
	Most common use of solids	Field applied
		Other (specify)
		Aerobic lagoon
		Anaerobic digester (complex mix) with
		energy generation
		Anaerobic digester (plug flow) with
		energy generation
		Anaerobic lagoon
		Composting
		Covered lagoon (no energy generation
		or flaring)
Waste Storage Facility (CPS	Waste storage system prior to	Covered lagoon with energy generation
313)	installing your waste storage facility	Covered lagoon with flaring
270±27±27 √		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
1900 160 120 200 200 200 200 200 200 200 200 20		Biological
Waste Treatment (CPS 629)	Treatment type	Chemical
		Mechanical
		Aerobic lagoon
		Anaerobic digester (complex mix) with
		energy generation
		Anaerobic digester (plug flow) with
		energy generation
		Anaerobic lagoon
		Composting
	Waste storage system prior to installing waste treatment lagoon	Covered lagoon (no energy generation
		or flaring)
		Covered lagoon with energy generation
		Covered lagoon with flaring
Waste Treatment Lagoon		Daily spread
(CPS 359)		Deep bedding pack
(613333)		Deep pit
		Dry lot
		Dry stacking/solid storage
		7 - 72
		Pasture/Range/Paddock
		Poultry with bedding
		Poultry without bedding (e.g., high rise
	9	Slurry tank/basin
	Is there a lagoon cover/crust?	Yes
		No
		Yes
	Is there lagoon aeration?	

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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
391, Riparian Forest Buffer

313, Waste Storage Facility 393, Filter Strip 314, Brush Management 394, Firebreak

315, Herbaceous Weed Treatment 395, Stream Habitat Improvement and Management

316, Animal Mortality Facility
396, Aquatic Organism Passage
317, Composting Facility
397, Aquaculture Pond
318, Short Term Storage of Animal Waste and By-Products
398, Fish Raceway or Tank

319, On-Farm Secondary Containment Facility 399, Fishpond Management

320, Irrigation Canal or Lateral 400, Bivalve Aquaculture Gear and Biofouling Control

324, Deep Tillage 402, Dam

325, High Tunnel System
326, Clearing and Snagging
327, Conservation Cover
328, Conservation Crop Rotation
410, Grade Stabilization Structure
412, Grassed Waterway
420, Wildlife Habitat Planting
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 360, Waste Facility Closure 455, Land Reclamation, Toxic Discharge Control

362, Diversion 457, Mine Shaft and Adit Closing

366, Anaerobic Digester 460, Land Clearing

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

368, Emergency Animal Mortality Management 464, Irrigation Land Leveling 371, Air Filtration and Scrubbing 466, Land Smoothing

372, Combustion System Improvement 468, Lined Waterway or Outlet

373, Dust Control on Unpaved Roads and Surfaces 472, Access Control 374, Energy Efficient Agricultural Operation 484, Mulching

375, Dust Management for Pen Surfaces 490, Tree/Shrub Site Preparation 376, Field Operations Emissions Reduction 500, Obstruction Removal

378, Pond 511, Forage Harvest Management 379, Forest Farming 512, Pasture and Hay Planting

380, Windbreak/Shelterbelt Establishment and Renovation 516, Livestock Pipeline 520, Pond Sealing or Lining, Compacted Soil Treatment

382, Fence 521, Pond Sealing or Lining, Geomembrane or

383, Fuel Break Geosynthetic Clay Liner

384, Woody Residue Treatment521A, Pond Sealing or Lining, Flexible Membrane386, Field Border521B, Pond Sealing or Lining, Soil Dispersant388, Irrigation Field Ditch521C, 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 Area 636, Water Harvesting Catchment 638, Water and Sediment Control Basin

640, Waterspreading 642, Water Well

643, Restoration of Rare or Declining Natural Communities

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

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

649, Structures for Wildlife

650, Windbreak/Shelterbelt Renovation

654, Road/Trail/Landing Closure and Treatment

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

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

737, Reduced Water and Energy Coffee Conveyance

System, interim

740, Pond Sealing and Lining, Soil Cement, interim

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

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

803, Water Well Disinfection, interim

805, Amending Soil Properties with Lime, interim

808, Soil Carbon Amendment, interim

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

812, Raised Beds, interim

815, Groundwater Recharge Basin or Trench, interim

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

CROPS CINNAMON HYBRID POPLAR TREES

ALFALFA CLOVER IDLE ALMONDS COCONUTS INDIGO

AMARANTH GRAIN COFFEE ISRAEL MELONS
APPLES CORN JACK FRUIT

APRICOTS COTTON ELS JERUSALEM ARTICHOKES

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 LAMBS EAR **EMMER** BROCCOFLOWER FIGS LEEKS BROCCOLI **FINFISH LEMONS** BROCCOLINI FLAX **LENTILS BRUSSEL SPROUTS FLOWERS LESPEDEZA** FORAGE SOYBEAN/SORGHUM **BUCKWHEAT** LETTUCE CABBAGE GAILON LIMES GARLIC CACAO 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 GUAYULE CASSAVA MUSHROOMS** CAULIFLOWER HAZEL NUTS MUSTARD CELERIAC **HEMP NECTARINES**

CELERY HERBS NIGER SEED NON **CHERIMOYA HESPERALOE CHERRIES** HONEY OATS **CHESTNUTS HONEYBERRIES OKRA** CHICORY/RADICCHIO HONEYDEW **OLIVES ONIONS** CHINESE BITTER MELON HOPS HORSERADISH CHRISTMAS TREES **ORANGES CHUFAS HUCKLEBERRIES PAPAYA**

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SWINE

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 BEEF COWS** SUNN HEMP **PEARS TANGELOS BEEFALO**

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

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

PISTACHIOS TOBACCO BURLEY GEESE TOBACCO BURLEY 31V PITAYA/DRAGONFRUIT **GOATS PLANTAIN TOBACCO CIGAR BINDER HONEYBEES PLUMCOTS** TOBACCO CIGAR FILLER LLAMAS **PLUMS** TOBACCO CIGAR FILLER BINDER REINDEER **POMEGRANATES** TOBACCO DARK AIR CURED SHEEP

TOBACCO FIRE CURED

WAX JAMBOO FRUIT

POTATOES SWEET TOBACCO FLUE CURED PRUNES TOBACCO MARYLAND

PSYLLIUM TOBACCO VIRGINIA FIRE CURED

PUMMELO TOMATILLOS PUMPKINS TOMATOES QUINCES TREES TIMBER QUINOA TRITICALE **RADISHES TRUFFLES RAISINS TURNIPS RAMBUTAN** VETCH RAPESEED WALNUTS WAMPEE RHUBARB RICE WASABI RICE SWEET WATERMELON

RUTABAGA WHEAT

RYE WILLOW SHRUB
SAFFLOWER WINTER MELON
SAPODILLA WOLFBERRY/GOJI

SAPOTE YAM

SCALLIONS SESAME SHALLOTS SORGHUM

RICE WILD

POTATOES

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

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

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

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

IV. Producer Benefits

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

V. Producer Data Protection and Disclosure

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

VI. Other Data and Reporting Requirements

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

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

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

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

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

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

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

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

VII. Competition and Anti-Competitive Practices

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

VIII. Suspension and Disbarment

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

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

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

- 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.