

U.S. Department of Agriculture Natural Resources Conservation Service

NOTICE OF GRANT AND AGREEMENT AWARD

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1. Award Identifying Number	2. Amendr	nent Number	3. Award /Project Period 4. Ty		 Type of award instrument: 		
NR243A750004G010			Date of final signature - 11/30/2028 Grant Agreement				
5. Agency (Name and Address)			6. Recipient Organization (Name and Address)				
USDA Partnerships for Climate-Smart Co c/o FPAC-BC Grants and Agreements Div 1400 Independence Ave SW, Room 3236 Washington, DC 20250 Direct all correspondence to FPAC.BC.G.		ommodities vision S AD@usda.gov	Marbleseed, Inc. P.O. Bix 339 Spring Valley WI 54767-0339 UEI # KWHJGBFCLMT6				
7. NRCS Program Contact	8. NRCS A	Administrative Contact	9. Recipient Program Contact 10. Recipient Admini Contact		10. Recipient Administrative Contact		
Jeremy Bowers	E	Daniel Curtis	Tom Manley	Sarah Broadfoot			
(b)(6)							
11. CFDA	12. Authority		13. Type of Action		14. Program Director		
10 037	15 USC 714 of and		Now Agroomont		Lori Storn		
		1 01 004	New Agreement		(b)(6)		
15. Project Title/ Description: E MN, MO, ND, NE, OH, SD, TN,	xpands clin WI and sup	nate-smart wheat, gra oports farmer CS prac	in, specialty and organ tice implementation an	nic crop ma nd monitori	rkets in IA, IL, IN, KS, KY, MI, ng.		
16. Entity Type: M = Nonprofit	with 501C3	IRS Status (Other tha	n Institution of Higher	Education	l.		
17. Select Funding Type		-					
Select funding type:		🕅 Federal		Non-Federal			
Original funds total		\$4,517,254.65		\$0.00			
Additional funds total		\$0.00		\$0.00			
Grand total \$		\$4,517,254.65		\$0.00			

18. Approved Budget

Personnel	\$599,563.80	Fringe Benefits	\$161,881.50
Travel	\$47,465.00	Equipment	\$0.00
Supplies	\$39,274.40	Contractual	\$0.00
Construction	\$0.00	Other	\$3,669,069.95
Total Direct Cost	\$4,424,172.55	Total Indirect Cost	\$93,082.10
		Total Non-Federal Funds	\$0.00
		Total Federal Funds Awarded	\$4,517,254.65
		Total Approved Budget	\$4,517,254.65

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	Signature	Date				
Government Representative Katina Hanson Acting Senior Advisor for Climate-Smart Commodities	KATINA HANSON	Digitally signed by KATINA HANSON Date: 2023.11.06 18:01:45 -06'00'				
Name and Title of Authorized Recipient Representative Lori Stern Executive Director	Lori Stern	Date Digitally signed by Lori Stern Date: 2023.11.06 15:28:51 -06'00'				

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 Marbleseed is to build markets for climate-smart commodities and invest in America's climate-smart producers to strengthen U.S. rural and agricultural communities.

Objectives

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

Budget Narrative

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

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

TOTAL BUDGET \$ 4,517,254.65

TOTAL FEDERAL FUNDS \$4,517,254.65 PERSONNEL \$545,059.00 FRINGE BENEFITS \$147,165.00 TRAVEL \$43,150.00 EQUIPMENT \$0.00 SUPPLIES \$35,703.00 CONTRACTUAL \$0.00 CONSTRUCTION \$0.00 OTHER \$3,653,095.55 (Includes \$910,000.00 in Produce Incentives) TOTAL DIRECT COSTS \$4,426,703.55 INDIRECT COSTS \$93,082.10 Recipient has elected to use the de minimis indirect cost rate, 10% of \$930,821

TOTAL NON-FEDERAL FUNDS \$0

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:

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

ltem No	Payment Type	Expense Category	Description	Obligation Amount		Obligation Direct Cost		bligation Indirect Cost	NICRA Rate %
10	Payment	Personnel	Personnel	\$ 599,563.80	\$	545,058.00	\$	54,505.80	10
20	Payment	Fringe Benefits	Fringe Benefits	\$ 161,881.50	\$	147,165.00	\$	14,716.50	10
30	Payment	Travel	Travel (Staff)	\$ 47,465.00	\$	43,150.00	\$	4,315.00	10
40	Payment	Supplies	Supplies	\$ 39,274.40	\$	35,704.00	\$	3,570.40	10
50	Payment	Other	Grower Summit expenses	\$ 65,718.40	\$	59,744.00	\$	5,974.40	10
60	Payment	Other	Participant / Trainee Support Costs	\$ 12,000.00	\$	12,000.00	\$	20	0
70	Payment	Other	Sub award 1: MFAI (first \$25K)	\$ 27,500.00	\$	25,000.00	\$	2,500.00	10
80	Payment	Other	Sub award 1: MFAI (above \$25K)	\$ 415,341.10	\$	415,341.10	\$		0
90	Payment	Other	Sub award 2: OEFFA (first \$25K)	\$ 27,500.00	\$	25,000.00	\$	2,500.00	10
100	Payment	Other	Sub award 2: OEFFA (above \$25K)	\$ 821,673.05	\$	821,673.05	\$	<u>ن</u>	0
110	Payment	Other	Sub award 3: OFARM (first \$25K)	\$ 27,500.00	\$	25,000.00	\$	2,500.00	10
120	Payment	Other	Sub award 3: OFARM (above \$25K)	\$ 1,025,223.40	\$	1,025,223.40	\$.	0
130	Payment	Other	Sub award 4: TSU (first \$25K)	\$ 27,500.00	\$	25,000.00	\$	2,500.00	10
140	Payment	Other	Sub award 4: TSU (above \$25K)	\$ 309,114.00	\$	309,114.00	\$		0
150	Payment	Other	Producer Incentive - Implementation	\$ 85,000.00	\$	85,000.00	\$	1	0
160	Payment	Other	Producer Incentive - Process Adoption	\$ 825,000.00	\$	825,000.00	\$	3	0

Use all this information as it appears when filling out the GADBET

Page 006 Withheld pursuant to exemption

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Climate-Smart Practices and Limitations

NRCS Practice Code	Practice Name
311	Alley Cropping
327	Conservation Cover
328	Conservation Crop Rotation
329	Residue and Tillage Management, No-Till
332	Contour Buffer Strips
340	Cover Crop
345	Residue and Tillage Management, Reduced Till
380	Windbreaks/Shelterbelt Establishment and Renovation
386	Field Border
390	Riparian Herbaceous Cover
391	Riparian Forest Buffer
393	Filter Strips
412	Grassed Waterways
420	Wildlife Habitat Planting
422	Hedgerow Planting
512	Pasture and Hay Planting
528	Prescribed Grazing
590	Nutrient Management
601	Vegetative Barriers
603	Herbaceous Wind Barriers
645	Upland Wildlife Habitat Management
666	Forest Stand Improvement

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

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

N/A

Growing, Marketing, and Measuring the Climate-Smart Impacts of Organic Grain & Field Crops

Project Lead: Marbleseed (formerly MOSES-Midwest Organic & Sustainable Education Service) Lori Stern, MA Ed-Executive Director Marbleseed Lori.stern@marbleseed.org

Project Partners: Michael Fields Agricultural Institute; Ohio Ecological Food & Farming Association (OEFFA); OFARM Cooperatives, Organic Farmers Association (OFA).

Underserved/Minority-focused Project Partners: Tennessee State University (TSU), Kansas Black Farmers Association (KBFA).

Executive Summary

The world is confronted with the challenge of climate change. A crisis that many have sought to deny, the impacts and reality of this global problem are becoming harder to ignore. On farms, many producers are experiencing firsthand the negative impacts of climate change with sporadic weather patterns and more frequent severe storms or droughts. These unreliable weather patterns are destabilizing our food, fuel and fiber supply chains and are forcing farms of all scopes and sizes to try and adapt. And yet, it is on the same farmlands that bear the brunt of climate change that also present one the planet's greatest resources in addressing climate change. A growing body of science, in particular, is showing that organic production systems present some of agriculture's best opportunities to reduce greenhouse gas emissions, sequester carbon and mitigate global climate change.

Organic production is a farming system founded on building healthy soil. For organic grain growers, the key is to establish a robust crop rotation including the use of cover crops. A well-designed crop rotation will aid in managing pests, weeds, and diseases, secure soil from erosion year-round, and increase soil fertility for the next crop in the rotation. And although organic production systems are based on sustainable agriculture principles, this project will focus on promoting, measuring and verifying organic farming practices that organic grain producers can implement to achieve climate-smart agriculture and forestry (CSAF) outcomes.

The project also recognizes that verifying and incentivizing organic practices and crop rotations as climate smart practices is just half of the challenge. If consumers and buyers do not understand that the grains and crops produced on these farms are climate-smart commodities, then it will be difficult for producers to market and sell these products. And without a viable market for these climate-smart commodities, there is no incentive for producers to continue following their crop rotation plan. Therefore, the project will accomplish three main objectives: 1.) incentivize the adoption of climate smart organic production practices by small-scale underserved producers, 2.) monitor and verify the climate smart benefits of organic production practices, and 3.) create and expand markets for organically-produced climate-smart commodities.

Objective 1: Incentivize & Adopt Practices Objective 2: Monitor & Verify Impacts Objective 3: Create & Expand Markets To accomplish these objectives, this project will engage farmers from diverse landscapes of geography, weather, environment, soil types and farming styles across 14 states spanning from the upper Midwest to the southeastern United States. Participating states include: North Dakota, South Dakota, Nebraska, Kansas, Missouri, Iowa, Minnesota, Wisconsin, Illinois, Indiana, Michigan, Ohio, Kentucky, and Tennessee. This project will pilot CSAF practices with at least 40 small-scale underserved farmers. A team of Field Service Coordinators will provide the necessary technical assistance, education and mentorship to participating enrolled farmers so that they can implement and monitor climate smart organic growing practices on their own farms. Project-wide "Grower Summits" will be held annually starting in 2024. Grower Summits will rotate to a different region in the project area each year through 2027. These annual meetings will provide the management team, project partners and enrolled farmers with the opportunity to evaluate and reflect on challenges, setbacks, successes and next steps. They will offer farmers the space to share stories from the field and researchers a forum to share findings from data analysis. Growers Summits will foster peer-to-peer learning and focus on project planning, resource sharing, and gathering lessons-learned.

Project Team

We recognize that a successful climate-smart agriculture and forestry (CSAF) strategy will require a multi-pronged approach across the supply chain, and as such, this project has put together a team of multiple partner organizations with diverse skillsets working together across multiple regions in one large project area.



As lead applicant, Marbleseed (previously MOSES) will provide overall support for all regions to meet project timelines and deliverables. Marbleseed has decades of experience providing

technical support to growers, organizing educational events and leading multi-state projects. Marbleseed has been working with organic and transitioning farmers in the Midwest for over 30 years as the Midwest Organic & Sustainable Education Service (MOSES) and continues to host the largest organic farming conference in the country. With an annual budget of over 1.5 million dollars a year from diverse sources and several years of clean audits, Marbleseed has the fiscal controls and capacity to manage a federal grant of this size with multiple subawards and contracts. Marbleseed will contribute technical assistance to enrolled farmers on practice adoption, as well as work with project partners to identify and address cross-training needs of the project Field Service Coordinators (technical support staff) related to selecting crop rotations, monitoring climate benefits and marketing.

Ohio Ecological Food & Farm Association (OEFFA) is one of the oldest certification and organic education agencies in the country. OEFFA educators meet producers where they are, answer questions about the organic certification process, standards, and production, and provide useful resources. OEFFA will provide transitional support to participating grain and row crop farmers, assisting in goal setting, crop planning, organic certification and technical organic management including crop rotations. Further, OEFFA is prepared to partner on technical team leadership responsibilities including overseeing and managing the technical teams for each area and coordinating communication within respective areas.

OFARM is an umbrella farmer marketing cooperative whose members are the following organic grain marketing cooperatives: Central Plains Organic Farmers, NFOrganics, and Midwest Organic Farmers Co-op. OFARM's role is to coordinate activities to address common needs around marketing climate-smart grains and crops, such as marketing coordination, expansion of production, promotion, consumer education, etc. This project aligns with OFARM's primary goal of improving farmer livelihoods and helping address the challenges of climate change with improved and expanded organic grain production and cooperative marketing. OFARM brings an already well-established marketing element into the project as well as a multi-region coordination and communication structure to enhance project management. OFARM currently serves primarily small to intermediate scale producers with 95% of its membership having annual sales of less than \$350,000.

Michael Fields Agricultural Institute (MFAI) is a non-profit organization addressing the challenges of soil fertility, water quality, climate resilience, food security and farm success through research, education and policy. MFAI is based in East Troy, Wisconsin, and serves diverse farmers and communities in the Upper Midwest. MFAI's Research program will co-lead the Environmental Monitoring objectives of this proposal in partnership with Tennessee State University researchers. Agroecologist Nicole Tautges, PhD, will collaborate with project leadership to develop and deploy environmental monitoring measurements on collaborating farms to quantify soil and habitat provisioning changes among farm operations with different management types, including tracking changes over time with management changes and adoption of organic practices. MFAI will co-lead data management and communication of environmental impact outcomes to farmers and other stakeholders to perform outreach to widen adoption of climate-friendly organic farming practices.

Tennessee State University (TSU), is an 1890 Land-Grant institution and one of the important Historically Black Colleges and Universities (HBCU's). Dr. Dilip Nandwani, TSU Professor of Organic Agriculture. Dr. Nandwani will provide technical assistance and act as the Field Service Coordinator responsible for outreach activities in Tennessee and in an advisory role projectwide. TSU is uniquely positioned to fulfill this initiative There are more than 6,000 African American students among the approximately 9,000 students enrolled at TSU. TSU is located in north Nashville, a low-income community of color (~87% African American, 4% other, 9% white). This current project will build on previous work conducted at TSU in organic agriculture, research and education under Southern Agriculture Research and Education (SARE), USDA-NIFA, USDA-CBG projects and stakeholders will have opportunities to adopt organic agriculture practices that include culturally appropriate grain rotations and participate in the emerging markets through aggregation and cooperatives under OFARM.

Kansas Black Farmers Association (KBFA) has been serving underserved and historically disadvantaged producers for over two decades. Based out of Nicodemus, in northwest Kansas, the only remaining western town established by African Americans during the Reconstruction period following the Civil War, KBFA, works to grow the number of minority farmers in America. KBFA will help recruit BIPOC farmers to enroll as a participating farmer willing to adopt and implement climate-smart organic practices including diversifying their crop rotation for this grant project. They will collaborate in outreach and engagement to the larger minority farming communities in Kansas and the Midwest.

Organic Farmers Association (OFA) provides a strong and unified national voice for certified organic producers across the United States. OFA will help recruit farmer participants, engage enrolled farmers in the organic farming community, share project findings on the climate-smart benefits of organic farming with diverse crop rotations, assist in education and changes for improved policies to support and market climate-smart commodities developed by this project.

The management team will consist of individuals from each of the partner organizations. Tom Manley from Marbleseed and Julia Barton from Ohio Ecological Food & Farm Association (OEFFA) will serve as project managers and provide overall project leadership. Tom and Julia will work with all project partners throughout the entire project area to engage and recruit small-scale underserved growers to accomplish the first objective: Incentivize & Adopt Practices. Tom and Julia will coordinate with all project partners to schedule the Grower Summits and facilitate Field Service Coordinator training and assignments. Nicole Tautges with Michael Fields Agricultural Institute (MFAI) and Dilip Nandwani from Tennessee State University will provide technical leadership and conduct all data analysis to accomplish the second objective: Monitor & Verify Impacts. Nicole and Dilip will coordinate with and support all Field Service Coordinators to ensure that farmers have access to the support they need to successfully implement CSAF practices and get climate-smart commodities to market. Leon Atwell, from OFARM, will serve as the project lead for the third objective: Create & Expand Markets. Leon will connect marketers from the OFARM family of cooperatives to the enrolled farmers through the Field Service Coordinators. This will link marketing to other technical assistance to ensure farmers have successful outcomes in marketing their crops.

The core project management team will serve as both advisors and implementors for the project. The team will meet monthly in the first year and then quarterly in subsequent years. In addition, this team will coordinate the annual Growers Summit and advise on regional technical assistance offerings (conference grain tracks, field days, business planning, etc.). This team will also track project progress, problem solve and communicate ongoing project activities, draft required project reports summarizing the activities completed in each region and ensure all reporting requirements are met. The Field Service Coordinators nested in each partner organization will also meet monthly for the purposes of coordination and accessing technical assistance resources across the regions and partner expertise.

Progress toward achieving the objectives and outcomes for the project will be monitored by the project evaluation team. A project team member will be assigned the evaluation component and be part of regular project team meetings to maintain an evaluation presence while capturing key progress steps throughout the project. The project evaluation leader will be supported by the other members of the technical assistance team in the evaluation efforts. In order to gather evaluation data, the project evaluation lead will participate in project team meetings on a regular basis. They will track the project's progress compared to the proposed work plan, capture overall project outcomes and objectives being met throughout the project and more specifically track progress on attaining proposed project indicators. Project results will be compiled into regular performance reports as required and the final performance report will include a summary of results related to each objective.

Objective 1: Incentivize & Adopt Practices: piloting climate smart ag practices on farm.

CSAF Practice: Incorporating Cover Crops and diversifying crop rotations

As the degradation of soil became apparent after years of corn-soybean rotations, the use of cover crops has become recognized as a critical part of maintaining soil health, eliminating the dependency on external inputs, and preventing soil loss. Now research is showing its valuable role in capturing carbon and addressing climate change. Incorporating cover crops into a farm's crop rotation provides ecosystem services including water infiltration, erosion prevention, nitrogen fixation, soil organic matter growth, pollinator habitat and weed control. In addition to these environmental benefits, cover crops can also serve as an additional source of income for farmers or as forage for livestock. There is a wide array of cover crop options for farmers to employ and depending on the goals of the farmer and the needs of the farm, farmers can tailor-select a mix that addresses those goals and needs.

One of the most common cover crops to add to a crop rotation are legumes, which can be interseeded into an existing crop to control weeds and build soil fertility while simultaneously growing the main cash crop. When timed correctly, interseeding cover crops can be ready to maintain ground cover after the main crop is harvested, eliminating windows of time where soils are left bare. Incorporating cover crops into a crop rotation also decreases the need for applying high rates of fertilizer, which can be expensive and pose negative environmental consequences, including runoff and leaching, if not managed or applied carefully.

A diverse crop rotation will include crops that build tilth and root mass throughout the soil profile, building carbon reserves, feeding soil biology, and storing more water and fertility; feeding the soil so the soil can feed the crop. However, crop diversity builds resilience in more than just the soil and ecosystem, it can also build resilience in underserved communities. Rotations that include heritage grains like sorghum, millet, teff, amaranth, and buckwheat have the potential to create several benefits for producers and ecosystems. Some are better adapted to drier environments; some have pollinator habitat benefits; and some offer cultural relevance to BIPOC producers with ancestral connections to Africa, Asia, and Latin America.

Farmer Recruitment, Outreach and Technical Assistance Plan

Through existing farmer networks and trusted partnerships with farmers, this project will engage and enroll small-scale underserved farmers from the project area's 14 states. Outreach and communication tools will include newsletters, events, social media and direct interaction. This multistate project will enroll at least 40 field crop farmers already engaged in organic production or desiring to transition to organic systems across 14 states. An enrollment incentive of \$8,000 will be paid to each participating farmer for the duration of the project that will compensate farmers for their time and expenses farming, implementing climate-smart agriculture practices, attending the regional Grower Summits, assisting with monitoring greenhouse gas benefits on their farm, and working with Field Service Coordinators.

Through a collaborative effort that capitalizes on the skillsets of each partner organization, the project will work together to reduce barriers for farmers interested in adopting CSAF practices; measure and quantify the climate and GHG benefits of these practices; and develop or expand markets for these climate-smart commodities. To accomplish this, a team of Field Service Coordinators will be trained (Fall 2022 – Winter 2023) and stationed throughout the 14-state project area. Field Services Coordinators will work directly with producers starting in the spring 2023 for four years through the end of the growing season in 2026. Field Service Coordinators will learn each farm's key challenges in organic crop production and marketing. Field Services Coordinators will collect production inventory data, assess grain quality, address supply chain challenges, and coordinate the climate-smart monitoring directed by MFAI and TSU.

The activities of the Field Service Coordinators will be aligned with the project management requirements coordinated through MOSES, OEFFA, and OFARM. Field Service Coordinators will bring the combined strengths and skillsets of all the partner organizations including: organic agriculture education, production technical assistance, and marketing expertise skills. Field Service Coordinators will provide grain growers with individualized assistance to help each enrolled farmer reach production goals, establish a crop rotation that meets their own farm needs, grow grains and crops that fit into markets developed by the project, and ensure that the adopted CSAF practices are effective, scalable, and financially viable. Field Service Coordinators will connect enrolled producers with resources and technical assistance, including OFARM Marketers who will help each farm develop individualized marketing plans and tap into new markets.

Each year, all enrolled farmers will gather together with Field Service Coordinators and other project partners to share success stories as well as setbacks, to talk about challenges and the

strategies that were required to overcome those challenges. These gatherings will be the Grower Summits. Grower Summits will provide an annual opportunity for all 40 enrolled farmers and project staff to meet for a day-long educational event that will include speaker-experts on content identified as needed by the farmers and Field Service Coordinators. In addition to practical information, the Summits will enable farmers to learn from each other and across the regions, as well as hear from the monitoring team about the data collected, sharing additional observations, identifying other climate, and marketing benefits that emerge over time. Grower Summits will also provide a forum in which all project partners can make collective decisions about how to brand new climate-smart commodities and develop new markets. A total of four Grower Summits will be held in years 2-5, with a different partner taking a turn to host this event each year: OEFFA hosting the first Grower Summit in 2024 in Ohio, Marbleseed hosting the second Grower Summit in 2025 in Wisconsin, Tennessee State University hosting the third Grower Summit in 2026 in Tennessee and OFARM hosting the final Grower Summit in 2027 in Kansas.

Marbleseed was one of the first farmer education organizations to initiate a formalized farmer mentoring program over fourteen years ago. Peer learning is critical to practice adoption and this project will also utilize a peer learning model with the technical assistance provided regionally. OFARM is a cooperative of crop farmers with years of experience across the Midwest. Marbleseed and OEFFA utilize farmer speaker/presenters through hosted field days and their annual conferences.

Many of these educational events during the project period will also provide opportunities for farmers beyond those enrolled in the project to learn about diverse crop rotations, climate smart practices, and emerging organic grain and crop markets. OEFFA and Marbleseed will create grain-focused tracks at their annual conferences. Additionally, through project field days and other educational events, including annual conferences, hosted by OEFFA, Marbleseed, OFARM, MFAI, TSU and other project partners, this project will engage at least 400 farmers annually (beyond the 40 enrolled producers), for a total of 2,000 additional farmers that will visit farms implementing diverse crop rotations and learn firsthand about the benefits of climate-smart organic systems.

Field days will be one of the main ways that we engage small-scale and underserved farmer communities. One field day per region will be held each year in all four regions for a total of 20 field days organized during the entire 5-year project. The first-year field days will focus on how to implement climate-smart practices and will be used to help educate newly enrolled producers as well as recruit additional farmers that want to enroll in the pilot project. In years 2-4, the field days will focus on different aspects of implementing climate-smart practices, producing climate-smart commodities, or accessing new markets. The specific topic of the field day will be determined based on input by the participating host farm and any identified issues or interest by other farmers. In year 5, the field days throughout each region annually, we plan to keep field days spread out geographically so that we maximize outreach efforts to new small-scale and underserved farmers interested in learning about organic practices and producing climate-smart commodities.

By applying the organizational expertise from diverse partner organizations across a wide region, this project will maximize information sharing, outreach, and impacts of this pilot initiative. The resulting increased farmer and buyer engagement will fuel accelerated adoption of climate smart practices by additional farms and further drive market development of this project's climate-smart commodities. By taking a holistic full supply-chain approach and capitalizing on the broad expertise in **organic education, adoption, research, and marketing** from project partners, this project will develop a model that takes advantage of economies of scale using cooperative marketing; a model that fosters farmer peer-to-peer learning through Grower Summits, conference grain tracks and on-farm field days; a model that benefits the climate, producers and markets; and a model that can be expanded and replicated across the nation.

Objective 2: Monitor & Verify Impacts: measuring the GHG benefits of adopted practices.

The organic practices of main focus in this project include increasing rotation diversity (e.g., crops other than corn and soybean); application of organic nutrient sources like compost and manure; cover cropping, and riparian buffer zones with perennial cover. These practices have been shown to protect the environment and provide ecosystem services in some academic studies and cover cropping and buffer zones are incentivized practices under USDA NRCS conservation programs. What is lacking is focus on measuring and articulating the outcomes of rotational diversification (likely because it is difficult to do in our current agricultural market system), and a holistic understanding of the benefits of stacking multiple conservation practices—this holistic system forms the basis for organic agriculture.

Rotational diversification can improve both adaptation and resilience to climate change in the U.S. agricultural system in several ways. Planting three or more crops in one year on an operation can decrease the chance of whole-farm crop failure from a particular environmental disruption by diversifying crop traits and performance under disruption; for example, wheat performs well under drought conditions compared with corn and soybean. Furthermore, diverse crop rotations input a diversity of residue qualities into the soil (e.g., legume residues rich in N and relatively low in C, compared with high-C corn stover) that can recruit and grow soil microbial communities important for the formation of soil structural components like macroaggregates, which increase soil aeration and drainage, as well as improving resistance to compaction and water-holding capacity. Diverse microbial communities and crop residue inputs also contribute to soil organic matter formation, a crucial process for taking carbon out of the atmosphere and creating long-term C storage pools in the soil. The incorporation of other residues, like those of winter cover crops (which introduce more diverse residues into the cash crop rotation) and organic materials such as manure and compost, creates synergies with crops in rotation to form a system that is soil building rather than degrading, and creates habitat for micro- and macrofauna that contribute to system floral and faunal diversification—another agroecological lever to pull to guard against climate change disruptions.

The monitoring component of this study will focus on measuring environmental indicators on all collaborating farms that relate to soil and water biophysical processes in agricultural fields, and how those processes contribute to, or mitigate, agriculture's contribution to climate change. The goals of our monitoring component are to:

- 1. identify organic and transitioning management practices that improve soil biophysical indicators over time (e.g., carbon storage, water infiltration, soil structure, etc.); and
- 2. quantify soil biophysical indicators on organic farms that increase agricultural soils' ability to draw down atmospheric carbon and farm production resiliency.

To address these questions, we will take measurements of each farm's soil *physical*, *chemical*, and *biological indicators* to assess the health and stability of each farm's soil, and analyzing it taking into consideration each farm's unique cropping and management practice history. These indicators were prioritized and selected by stakeholder farmers who provided input on this proposal and who hope to collaborate on tracking these indicators on their farms.

Soil Physical Indicators

Soil physical properties are not only important for farmers' abilities to interface and manage crop fields (including timing of operations and ease of mechanical operations like tillage), but are also primary determinants of soil-water-plant-microbe interactions that impact a system's carbon storage rate. Microbes and the way they interact with crops are a key player in soil carbon storage mechanisms, and the soil physical environment exerts a large impact on the ability of microbes to survive and thrive.

Common soil structural measurements like bulk density and aggregation are good indicators for suitability of soil environments for microbes; e.g., a soil with low bulk density and high macroaggregation is not compacted, is well aerated, and contains plenty of microenvironments that facilitate microbial functions and biodiversity. In contrast, a soil with high bulk density and low aggregation is likely compacted and does not contain the micropores and other complex structural spaces required by high-functioning microbial communities.

We will measure bulk density and macroaggregation (amount of large soil aggregates that have shown to stabilize and hold soil carbon) annually by collecting soil samples in June for 4 years (2023-2026) on all participating (at least 40) farms to monitor soil structural health. In year 1, we will also analyze soil samples for soil texture, to use as a covariate in all soil analyses (i.e., to adjust for differences among farms in soil texture, a static soil variable). Soil structural indicator data will be cross-referenced with historical crop and management data to evaluate what organic and transitioning management practices have the ability to improve soil structural indicators, within a texture class.

Another soil physical property that will be monitored is water infiltration, which impacts runoff. Excess runoff can cause soil erosion and loss of nutrients or other farm inputs, polluting surface water bodies and degrading the environmental health, while also resulting in financial losses for growers. A healthy soil with good structure will have a greater water infiltration rate, leading to soils that can be managed by growers and can assist with groundwater recharge, an essential ecosystem service in all regions to safeguard against drought conditions. We will measure water infiltration on enrolled farms once per year from 2023-2026 using a SATURO Automated Field Infiltrometer, a field measurement tool that uses a multi-pressure head analysis system to optimize accuracy of hydraulic conductivity measurements.

Soil Chemical Indicators

Routine soil testing is common on many farms and is necessary to provide a baseline for understanding soil organic matter and chemical pools. Annual soil samples will be analyzed for routine tests including pH, organic matter, nitrate, phosphorus, potassium, and cation exchange capacity, to allow us to track soil macronutrient content over time and among management practices. We will also measure total soil carbon and nitrogen to track soil carbon storage during the period of the study, and permanganate-oxidizable carbon (POX-C), an early indicator of soil carbon storage (Awale et al. 2017). Percent carbon data received from this analysis will be used in conjunction with bulk density to compute total carbon stocks sequestered/emitted, indicating a system's ability to either draw down or contribute to atmospheric carbon. Soil total carbon will be cross-referenced with other soil carbon pool indicators, including organic matter, microbial carbon, and microbial respiration, to gain an understanding of a system's soil carbon flux (either positive or negative) and its biological carbon use efficiency.

Soil Biological Indicators

Biodiversity is an ecosystem service that can be both provided by, and benefit from, agricultural management practices. Creating habitat on-farm for wildlife like birds and ground-nesting mammals, as well as insects and arthropods, can be enhanced through incorporation of cover crops and buffer zones, among other practices, and rotational diversification can enhance microbial diversity in the soil. Enhanced biodiversity has been shown to increase C storage potential of the farm, as well as foster beneficial predators that keep pest populations at bay (Steenwerth et al. 2014). We will track biodiversity gains with conversion to organic practices on-farm by cooperating with collaborating farmers to observe wildlife presence and activity on their farms. Farmers will be asked to periodically collect soil samples and count earthworms to monitor soil macrofauna activity. Pitfall traps will be placed within fields of study to collect and count ground-nesting pests, and sticky traps will be deployed next to fields to count the number of beneficial predators present. Farmers with buffer zones will also be given protocols to collect bird sighting data. We will ask farmers to take photos of species they cannot identify that can be identified by experts later. We will cooperate with entomologists at UW-Madison to provide farmers with protocols (including a mobile app call WiBee) to monitor pollinator visitations when farmers plant a flowering crop that potentially can offer pollinator services. Farmers will be assisted by the Field Service Coordinators to perform these observations and collect data. Observational data will be transferred to the Data Management Team for analysis and storage.

Collected data and climate benefit quantification will be of high value and interest to enrolled farmers. As data is compiled from the enrolled farms from across the 14-state project area, Field Service Coordinators will assist enrolled producers with using the USDA's online Carbon Management Evaluation Tool (COMET) to evaluate the potential carbon sequestration and greenhouse gas reductions from adopting the organic and crop rotation production practices. Grower Summits will provide an opportunity for the monitoring team to share the emerging results and can be used by the marketing team to begin to build the narrative that will inform both practice adoption and marketing efforts. The project management team will prepare reports and outreach and promotion materials to effectively communicate results and the value of these climate-smart commodities to new producers interested in adopting the climate-smart

practices evaluated in the project and to consumers to relay the value and benefits of the project's climate-smart commodities along the supply chain.

Objective 3: Create & Expand Markets: increasing market opportunities for climate-smart commodities and building on existing systems of traceability through the supply chain.

In order to expand markets for climate smart commodities a promotional program will be developed aimed at increasing the awareness of consumers, buyers, processors as well as producers of the benefits of utilizing climate smart practices. A communication plan will be developed by the project team and implemented by the end of the project as a critical piece for ongoing marketing. Communications efforts will focus on the climate impacts enrolled producers realized along with identifying additional value and benefits to end users and customers. Promotional messaging will be developed that is tailored around why consumers should choose food products produced using climate smart practices, how organic production is inherently climate smart, how grain and field crop supply chains are being monitored for climate smart practices, how cooperatives help the small producers in expanding the markets for climate smart commodities. A critical aspect of the communications plan will be a "climate smart promotional program" that will include video interviews with the enrolled farmers, project partners as well as marketers, buyers, processors and potential consumers. The video interviews will be edited into various length segments using a documentary format. Footage will then be used for webinars, promotions, advocacy, brand development and social media. A production company will be commissioned to develop the videos.

Developing Individualized Marketing Plans

Incorporating new crops into a farm's crop rotation and adopting organic climate-smart agricultural practices is a multi-faceted paradigm shift in philosophy and practice. In the nonorganic sector, there is a well-established marketing process that conventional producers can access. However, as producers work to implement climate-smart practices and develop new climate-smart commodities, there is a lack of marketing channels and developed markets to support the sustainable long-term production of these alternative crops and the continued implementation of practices that will help address the climate change crisis that the world faces. To foster lasting change, promote more farmers to adopt CSAF practices and grow markets for climate-smart commodities, a strong marketing plan is paramount.

Creation of a marketing plan that embraces the basic premise of developing marketing relationships with credible end users is a key element in providing sound business planning for economic success. Although traditional crops have developed markets that all scales of farm operations can access, small-scale or underserved producers often lack the time, skills, or funding to develop markets for new crops. Marketing cooperatives present producers with options to come together to aggregate crops to meet market demands, split the costs of shared expenses, and pool resources to engage in cooperative marketing efforts.

Cooperative marketing is a well-established process to assist producers in effectively engaging new markets by capitalizing on economies of scale to reduce transactional costs that would otherwise pose barriers for small-scale and underserved producers from developing new climate-smart commodities. Additionally, cooperative marketing creates a strong network of producers that can foster farmer mentoring, resource sharing and farmer peer-to-peer learning opportunities. Additionally, by forming one group, producers make it easier for resource and technical assistance providers to support multiple producers, and although production education and marketing education are often not planned in conjunction, this project will provide support to producers from production through every step along the supply chain to end consumers. Field Service Coordinators will support producers in learning about, adopting and implementing CSAF practices in Objective 1. In Objective 2, Field Service Coordinators will assist producers in monitoring and collecting on-farm data to verify the GHG benefits of diverse and organic crop rotations. In Objective 3, Field Service Coordinators will connect producers with an OFARM Marketer to coordinate production and marketing support and technical assistance.

Field Service Coordinators and Marketers will work collaboratively to ensure that production goals align with marketing goals. To make sure that supply meets demand as this project creates and expands markets for newly developed climate-smart commodities, Field Service Coordinators and Marketers will maintain ongoing communication about the realities of what each farm can produce in relationship to what each new market can support. Through this intentional partnership between Field Service Coordinators and Marketers, Marketers will work with each producer to create a marketing plan for all the crops being produced from the crop rotation. These individualized marketing plans will enable producers to strategically plan out how many new crops to plant to maximize sales and reduce unsold product. Through planning and support, Marketers and Field Service Coordinators will help each participating farm achieve financial profit from new climate-smart commodities and establish market-driven incentives to adopt CSAF practices beyond the life of this grant.

A Market Development Community: an innovative Partnership to develop new markets

This project understands that a marketing plan is only as successful as the market allows. A weak market will never result in a financially viable venture no matter how well constructed a marketing plan may be. To address this need, this project will form a Market Development Advisory Group, which will consist of the project management team, leaders from farm marketing cooperatives and business development executives from five consumer-based food retail companies. By bringing together leaders from across the supply chain, this project will gain valuable insights on how to create and grow new markets.

The Market Development Advisory Group will provide strategic planning for the project's market development goals. They will identify potential market entry points, share insights on market trends, and develop strategies on branding new climate-smart commodities. The Market Development Advisory Group will develop marketing strategies to preserve the identity of new climate-smart commodities as they move through the supply chain and reach end consumers. New and expanded markets will be evaluated for economic, logistical and business feasibility from both the producer perspective and the supply chain perspective.

Market development components will include: (1) ongoing market assessment of the organic grain market to identify new and emerging trends; (2) ongoing market research based on shared information among co-ops, customers, other organizations and market researchers;

(3) engagement with producers and customers to trial new grain crops, varieties, processes and uses; (4) collaboration on supply chain development to establish new crop/market viability.

While many of these individuals normally work on opposite ends of the organic grain supply chain with limited interaction, this project will bring together a diverse group of companies and organizations to collectively explore new markets and build a market development community centered around trusted relationships, strengthened collaboration and strategic cooperation that can be sustained beyond the life of this project. The outcome is a market development community that will continue to identify, develop and expand markets for climate-smart commodities developed after this project has been completed.

Economic Benefit Estimates to Climate Smart Organic Field Crop Farmers

This project will develop a framework for market development that combines the innovation, experience, networks and connections from each project partner, industry leaders and the small-scale culturally diverse farmers. This collaborative approach to market development is innovative in its holistic approach that accounts for changing climate, demographics, consumer tastes, and economic trends, beyond what one individual organization or sector can muster. This approach also focuses on maximizing the economic benefit for the small-scale and underserved producers that this project supports.

In 2020, the University of Minnesota Center for Farm Financial Management (CFFM) concluded a long-term study that showed an increase of \$113/acre in net returns for organic cornsoybean-wheat farming operations over conventional corn-soybean and corn-soybean-wheat operations. This difference is attributable to lower input costs in the organic system, including lower fertilizer, herbicide and insecticide costs, and substantially higher market prices for organic grains. And the Rodale Institute in Pennsylvania, through a 30-year series of trials comparing organic field crop production to conventional field crop production, has found that organic field crop systems earn an increase of \$368/acre in net returns over conventional field crop operations. We recognize that the producers at Rodale have both finely tuned their production techniques as well as developed their markets over the past three decades. The findings of these studies will be utilized in farmer recruitment and retention. We will be able to highlight that despite the potential for lower yields with small-scale organic systems, reduced input costs and higher prices result in larger net margins. Based on both studies, for this project we estimate that participating producers can expect an increase of \$150 to \$300 per acre in net returns by year five based on their current farming operation and level of experience.

In addition to on-farm net profit gained by transitioning to organic climate-smart farming practices, small-scale farming operations can also receive more economic benefits by selling organic grains and other climate-smart commodities through a farming marketing cooperative. Aggregating crops through a marketing cooperative allows small-scale farming operations to pool together product to fulfill larger orders and access markets farther than their current limited distribution allows. In addition, by leveraging economies of scale, small-scale operations can lower storage, distribution, marketing, and other production related costs by working through a marketing cooperative that can buy in bulk or negotiate for bulk prices and pass along saving to member farmers. Combined with the increased on-farm net profit, these

economic benefits will help incentivize developing a model that can be replicated and scaled up in the future.

Post Project Potential to Bring to Scale

In order to continue to provide broader incentives to a larger cross section of farmers, the project team will gather feedback from enrolled producers, Marketers and Field Service Coordinators to create an incentive development plan that can help continue to incentivize new farmers to adopt CSAF practices, produce climate-smart commodities and further support the growth of newly developed markets. This plan will include identifying which CSAF practices were most successfully implemented by the 40 enrolled producers and come up with outreach materials highlighting the ecosystem services, the environmental benefits and the financial potential that implementing these CSAF practices can provide as told from the 40 enrolled producers so that farmers can help recruit more farmers to help scale up this system and paradigm shift. Gaining input from enrolled producers for the development of this plan will help inform future outreach efforts and will be critical to long-term sustained adoption of CSAF practices by a growing number of producers.

The engagement of a well-structured network of organic grain marketing cooperatives, university research partners, and organic education and advocacy non-profit organizations, provides strong and unique possibilities for scaling up climate smart agricultural practices and markets beyond the end of this project. All organizations in this project have deep, trusted and broad connections to farming communities with long histories of supporting small-scale and historically underserved farmers. Past efforts on sustainable farm production, education, advocacy, marketing, environmental action, cooperative development and more have enabled and empowered organic farmers to take initiative in addressing key ecological, economic and social challenges facing farmers, rural communities and society generally.

Through the establishment of connected robust farmer networks, the placement of Field Service Coordinators across the 14-state project area, increased communication channels between organizations, the development of a Market Development Community to promote collaboration between companies and organizations along the supply chain, and the creation or expansion of markets for climate-smart commodities, this project will lay a strong foundation for future scaling-up of this pilot initiative. Field Service Coordinators will continue to act as a critical link, connecting farmers to resources, learning opportunities, farmer peer-to-peer learning, and marketing technical assistance. Cooperatives and other support organizations will develop relationships necessary to provide the production and marketing technical assistance needed to help new farmers adopt and implement CSAF practices. The Market Development Community will continue to inform each other on new market opportunities, communicate feedback on consumer behavior and facilitate trials to test out market receptivity of new climate-smart commodities developed after the grant.

With increased sales and the increased adoption of organic climate-smart practices, farmers will learn about the success that initial farmers will have and will create a natural incentive for future farmers to seek out and explore replicating the systems that this project will pilot. Then with the success of cooperative marketing, farmers will likely find additional opportunities to

cooperate more broadly across the supply chain of grains and legumes for food and feed. This could include production research, education, value added processing, better organized and efficient product shipping and logistics, equipment sharing, leadership development, and more. Well-connected Field Service Coordinators can become a conduit for farmers to obtain the resources and develop the facilities and organization at the farm level for effective organic production and marketing. The partner organizations in this project will continue to identify, develop, organize and finance other areas of cooperation based on this project's success, increasing the scale of these efforts and creating a model for other regions. This growing capacity for cooperation and cooperative self-education is necessary to address the critical challenges of climate change in agriculture and building cooperative capacity with this project will assure the ongoing, scaling up of climate smart farming practices, markets and related social action.

Conclusion: Bringing all three objectives together

Climate change is a real threat, but organic agriculture farming systems, diversified crop rotations and other CSAF practices provide an opportunity to address this global crisis. To accomplish this large task, the project has put together a team of partner organizations with diverse skillsets representing multiple supply chain areas of the organic grain industry. The project team has divided the project into three major objectives: Objective 1: Incentivize & Adopt Practices will engage and enroll 40 small-scale underserved producers to pilot climatesmart practices on their farms with support from a team of cross-trained Field Service Coordinators who will provide individualized one-on-one technical assistance. Objective 2: Monitor & Verify Impacts will quantify the GHG benefits of adopted practices by measuring each farm's soil physical, chemical, and biological indicators. Objective 3: Create & Expand Markets will increase market opportunities for climate-smart commodities and build on existing systems of traceability required of the organic industry to establish similar systems to trace climate-smart commodities through the supply chain all the way to end consumers. A Market Development Advisory Group will lead market development and Marketers will work with Field Service Coordinators to help producers develop marketing plans and market their crops. Outreach will be conducted via conferences and other educational events including 20 field days throughout the entire 14-state project area over the 5 years to promote CSAF practices and help scale up this pilot project beyond the life of the grant. Through the development of unique partnerships spanning the supply chain, this project will create models that can be replicated across the nation that will promote the adoption of CSAF practices and the development of new markets for climate-smart commodities.



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."

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

Project Summary

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

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

Version 1.0

Partner Activities

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

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

Table 2. Partner Activities elements

Marketing Activities

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

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

Table 3. Marketing Activities elements

Producer Enrollment

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

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

Table 4. Producer Enrollment elements

Field Enrollment

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

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

Farm Summary

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

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

Table 6. Farm Summary elements

Field Summary

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

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

Table 7. Field Summary elements

GHG Benefits - Alternate Modeled

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

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

Table 8. GHG Benefits - Alternate Modeled elements

GHG Benefits - Measured

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

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

Table 9. GHG Benefits - Measured data elements

Additional Environmental Benefits

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

Table 10. Additional Environmental Benefits elements

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

Supplemental Data Submission

Project MMRV Plan

Definition of MMRV elements:

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

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

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

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

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

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

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

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

Field modeled GHG benefit reports

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

Field direct measurement results

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

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

Data Descriptions

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

Unique IDs

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

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

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

Project Summary

Commodity type	
Data element name: Commodity type	Reporting question: What climate-smart commodity types are produced by this project?
Description: Type of commodity incentiviz	ed by the project. These commodities include those for whom
farmers are directly receiving incentives o	r other types of marketing support. See full list of commodity options
in Appendix B. List one commodity per row	Ν.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values: FSA commodity list
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Commodity sales	
Data element name: Commodity sales	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	is part of the quarterly performance report.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Yes
Logic: None - all respond	NO Required: Vac
Data collection level. Designt	Dete collection fragmente Quartech
	Data collection frequency: Quarterly
Farms enrolled	Departies and the Did the second second
Data element name: Farms enrolled	fields this quarter?
Description: Indicator that the project enr complete the <i>Producer Enrollment</i> and <i>Fie</i> performance report	olled 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 Both Both
Data collection lovel. Desired	Dete cellection from an Overtant
Data collection level: Project	Data collection frequency: Quarterly

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	d to calculate the total cumulative GHG benefits reported by the
project this quarter.	Colort multiple volume: No
Data type: List	Select multiple values. No
Measurement unit: Category	Allowed values:
	Direct field measurements
	Both
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Cumulative GHG benefits	Constant formal province processing production and province of the province province of products of the province of the provin
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 gree	anhouse gas emission reductions from practice implementation.
This is updated quarterly. If there are no char	nges, 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 char	ige in carbon stock based on practice implementation. This is
updated quarterly. If there are no changes, e	nter the same numbers as the previous quarter. Conversion rate is
one ton of carbon = 3.67 tons of CU ₂ eq.	Salact multiple values: No
Massurement unit: Matria tons CO as	Allowed values: 0.10.000.000
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	Penerting question: What are the project's estimated total
banafit	cumulative CO2 emission reductions to date?
Description: Estimated total cumulative carb	on dioxide emission reductions based on practice implementation
This is updated guarterly. If there are no cha	nges, enter the same number as the previous quarter.
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO ₂	Allowed values: 0-10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Cumulative CH4 benefit	1 1 2 2
Data element name: Cumulative CH4 benefit	Reporting question: What are the project's estimated total
	CH4 emission reductions to date?
Description: Estimated total cumulative met	hane reduction based on practice implementation. This is updated
quarterly. If there are no changes, enter the	same numbers as the previous quarter. Conversion rate is one ton
of $CH_4 = 25$ tons of CO_2eq .	" Mari Bulayingan Babulah Ingkumba Maki
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CH4 reduced CO2eq	in Allowed values: 0-10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly

imated total . This is
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e defined as
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carbon
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as having for a firm.

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 pract	ice-specific technical assistance provided by the project (by recipient
or partners) to any producers. This is updat previous quarter.	ed quarterly. If there are no changes, enter the same number as the
Data type: Decimal	Select multiple values: No
Measurement unit: Dollars	Allowed values: \$0-\$50,000,000
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
MMRV cost	
Data element name: MMRV cost	Reporting question: What is the total amount that has been spent on MMRV activities?
Descriptions Total cost of all MANADY and this	id for both and in the second second second both ADADY

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 Allowed values: Measurement unit: Category Drones . Ground-level photos and videos . **On-farm visit** Plot-based sampling Producer records or attestation Satellite monitoring or remote sensing Soil metagenomics Soil sensors Water sensors Other (specify) Logic: None - all respond Required: Yes Data collection level: Project Data collection frequency: Quarterly

GHG reporting method

Data element name: GHG reporting 1-5

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

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

Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
a na manana	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	
B 4 1	

Data element name: GHG verification method 1-5 **Reporting question:** How did the project verify implementation of practices to reduce GHG emissions?

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

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

Partner Activities

Unique IDs

Partner ID

Unique Project ID for each partner

Partner name	
Data element name: Name of partner organization	Reporting question: What is the official name of the recipient or partner organization?
Description: Legal name of recipient or partner organiz	zation
Data type: Text	Select multiple values: NA
Measurement unit: NA	Allowed values: Text
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Partnership initiation
Partner type	
Data element name: Type of partner organization	Reporting question: What type of organization is this?
Description: Legal/financial structure of recipient or pa	artner organization
Data type: List	Select multiple values: No
Measurement unit: Category	 Allowed values: Commodity groups (501c5) For-profit Individual Nonprofit State or local agency Tribal agency University
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Partnership initiation
Partner POC	
Data element name: Partner POC Description: Name of a point of contact for the recipie	Reporting question: Who is the point of contact for this project at the recipient or partner organization? ent 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 recip	ient 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

Partnership start date	
Data element name: Partnership start date	Reporting question: When did the partnership start?
Description: Date that the partner organization and th	e 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 th	e recipient stopped formally partnering on the project
Data type: Date	Select multiple values: NA
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023 - 12/31/2030
Logic: No response for recipient	Required: Yes
Data collection level: Partner	Data collection frequency: Partnership end quarter
New partnership	
Data element name: New partnership	Reporting question: Is this a new partnership?
working relationship (under contract or on a grant) pric Data type: List	or to the start of the project. Select multiple values: No
Measurement unit: Category	Allowed values:
	Yes
	• No
Lasta. Na sama na far maintant	I don't know Benuired: Vec
Logic: No response for recipient	Required: Yes
Data collection level: Partner	Data collection frequency: Partnership initiation
Partner total requested	
Data element name: Partner total requested	Reporting question: What is the total amount of funding the partner has requested to date from this project?
Description: Cumulative (total) amount of funds that the recipient from the start of the partnership to the end of value must be the sum of all previous entries plus the a there are no changes, report the value from the previous pata type. Decimal	the partner has requested reimbursement for from the f the reporting quarter. For each quarter's data entry, the mount of funds requested in the reporting quarter. If us quarter.
Measurement unit: Dollars	Allowed values: \$0-\$100,000,000
Logic: No response for recipient	Required Vas
Data collection level: Partner	Data collection frequency: Quarterly

Total match contribution	
Data element name: Total match contribution	Reporting question: What is the total match value the organization has contributed to the project to date?
Description: Cumulative (total) value of funds and in-kind contributions (e.g., staff time, inputs, equipment rental, marketing support) that the partner has provided as a project match contribution from the start of the	
previous entries plus match contributions in the rep	orting quarter. If there are no changes, report the value
from the previous quarter.	Colort multiple veloces NA
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
otal 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 in	centive payments directly to producers that the partner has
provided as a project match contribution from the s	tart of the partnership to the end of the reporting quarter.
For each quarter's data entry, the value must be the	e sum of all previous entries plus match incentives in the
reporting quarter. If there are no changes, report th	e value from the previous quarter.
Data type: Decimal	Select multiple values: NA
Measurement unit: Dollars	Allowed values: \$0-\$100,000,000
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Quarterly
Match type	
Data element name: Match type 1-3	Reporting question: What types of match
	contributions has the organization provided to the project?
Description: Types of match contributions other the	an incentives provided directly to producers by the
organization from the start of the partnership to the	e 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	s. 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

equipment and other inputs for use in the	There. The worksheet provides three columns with a drop-down hist 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 th	e additional column to enter other match types as free text.
Data type: List	Select multiple values: No
	1.2 Address meters data antica data data meteron

Measurement unit: Category	Allowed values:
	 Equipment rental or use
	 In-kind staff time
	 Production inputs (reduced cost or free)
	Program income
	Software
	 Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Quarterly

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	February 2023

Vatch 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	ch match type that the organization has provided as a
project match contribution from the start of the part	nership to the end of the reporting quarter. Enter amounts
for up to the top three (in dollar value) match types. element. Enter one value for each column. If fewer the	The worksheet provides three columns for this data an 3 match types are used, leave unnecessary columns
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	
Data element name: Training type 1-3 provided Description: Types of training provided to the project the past quarter. Training can come from the recipier of their own organization, or an outside organization. training provided. The worksheet provides three colu one value for each column. If fewer than 3 training ty is chosen, use the additional column to enter other tr Data type: List	Reporting question: What types of training has the organization provided to project partners? t partner as a result of participating in the project during nt, a project partner organization (including other divisions Enter up to the top three (in dollar value) types of partner mns with a drop-down list of the allowed values. Choose pes are used, leave unnecessary columns blank. If "other" aining types as free text. Select multiple values: No
Measurement unit: Category	Allowed values:
	Data collection
	Grant reporting
	 Marketing opportunities
	 Providing financial assistance
	 Providing technical assistance
	Writing producer contracts
Forth Manager II	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Quarterly
Activity by partner	
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 p	partner organization has provided during the reporting
quarter. Enter up to the top three (in dollar value) typ	pes 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.	Calaat multiple values. No
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	INIARKETING SUPPORT
	ININIKY Support Droducor outroach for annalment
	 Producer outreach for enrollment
	 Tochnical accistance to producers
	 Technical assistance to producers Training to other partner organizations
	 Technical assistance to producers Training to other partner organizations Other (specify)

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 activitie this organization has provided to the project?
Description: Cumulative (total) cost of each activity typ	e 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 colu	imns for this data element. Enter one value for each
column. If fewer than 3 activity types are provided, leav	e 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 p	roducers as incentives or matching contributions. Enter
the name of each product, including its brand. Separate	each product name with a comma. If no products or
supplies were provided by the organization, leave the co	olumn 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 sup	plies 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

Marketing Activities

Commodity type	
Data element name: Commodity type	Reporting question: What type of commodity is produced by the farmers enrolled in this project?
Description: List a single commodity produced by the project, the FSA commodity list in Appendix B and a	uced or marketed through incentives from this project. If multiple use additional rows of the worksheet to report each commodity. Use choose the commodity from the list.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values: FSA commodity list
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Marketing channel type	
Data element name: Marketing channel type	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 fir	ms or buyers in this marketing channel.	
Data type: Integer	Select multiple values: No	
Measurement unit: Count	Allowed values: 1-500	
Logic: None – all respond	Required: Yes	
Data collection level: Project	Data collection frequency: Quarterly	

Names of buyers		
Data element name: Names of buyers	Reporting question: What are the names of all of the buyers in this marketing channel?	
Description: Provide the names of all buye	ers 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 geography	Reporting question: What is the primary geography of the marketing channel?	
Description: The primary geography of the which most of the activity of buying and so neighboring states. Regional means within International means specific locations out specific international location	e type of marketing channel. Primary geography means the scale at elling happens. Local means within a single state or directly n a five-to-ten state area. National means across the United States. side of the United States. Global means across the world or not to a	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values: Local Regional National 	
Logic None all recoord	Global Beguired, Vec	
Data collection level: Project	Required: Tes	
	Data conection nequency. Quarterry	
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 comm	nodity 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	
/olume 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 commodit	y 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	

Volume sold unit	
Data element name: Volume sold unit	Reporting question: What is the unit of volume?
Description: The unit associated with the vertex shown use the additional column to enter	olume of the commodity sold in the marketing channel. If "other" is
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
	Ivietric tons
	Pounds Short tons
	Other (specify)
Logic: None - all respond	Other (specify) Pequired: Vec
Determine - all respond	Required. Tes
Data collection level: Project	Data collection frequency: Quarterly
Data element name: Price premium	Penarting question: What price promium is received for the
Data element name. File premium	commodity sold in this marketing channel?
Description: The price premium received for	or the commodity sold in this marketing channel this quarter. Price
premium is the amount received above a 'b	pusiness 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 concention inequency. Quarterly
Data element name: Price premium unit	Reporting question: What is the unit for the price premium?
Description: The unit associated with the n	rice premium for the commodity sold in the marketing channel. If
"other" is chosen use the additional colum	in to enter the appropriate unit as free text
Data type: List	Select multiple values: No
Measurement unit: Category	
measurement unit. category	Per hale (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
70	0 0 100 INT

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

Data element name: Product differentiation method 1-3

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

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

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

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

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

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

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

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
Logic: None – all respond	 Partnership network or project partner Other (specify) Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Traceability method	
Data element name: Traceability method	Reporting question: What traceability methods are used for

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

Data type. List

Logic: None - all respond

1-3

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)
- Required: Yes

Data collection level: Project Data collection frequency: Quarterly

Producer Enrollment

Farm ID	Unique Farm	n 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 ther the project and is re-enrolling.	e is new or updated	d information for a producer who had previously enrolled in
Data type: List		Select multiple values: No
Measurement unit: Category		Allowed values: • Yes • No
Logic: None – all respond		Required: Yes
Data collection level: Producer		Data collection frequency: Re-enrollment
Producer start date		[10] C. Martine and S. Sana and A. W. Collaboration and A. S. Sana and Sa Sana and Sana and S Sana and Sana and Sa
Data element name: Producer s	tart date	Reporting question: When did the producer enroll in the project?
Description: Date that the prod	ucer enrolled in the	e project by signing their first contract.
Data type: Date		Select multiple values: NA
Measurement unit: MM/DD/YY	ΥY	Allowed values: 01/01/2023 – 12/31/2030
Logic: None – all respond		Required: Yes
Data collection level: Producer		Data collection frequency: Initial enrollment
Producer name		
Data element name: Producer r	ame	Reporting question: What is the name of producer enrolled in the project?
Description: Name of the producustomer's Business Partner rec Data type: Text	icer enrolled in the ord and the Farm C	project; the name must match the name contained in the Operating Plan in FSA Business File for that Farm ID. Select multiple values: NA
Measurement unit: NA		Allowed values: Text
Logic: None – all respond		Required: Yes
Data collection level: Producer		Data collection frequency: Initial enrollment

Underserved status

Data element name: Underserved stat	us 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, so farmers; women farmers and producer Small farms are generally those with le producer is considered underserved, a know" if the producer declines to answ collecting demographic data including	icially disadvantaged farmers, veteran farmers, and limited resource is growing specialty crops are generally also included in these categories. ss than \$350,000 in annual gross cash farm income. Indicate whether this small producer, or both underserved and a small producer. Use "I don't ver. Departmental Regulation 4370-001 provides USDA's policies for	
voluntary and at the discretion of the c	race, etimicity and gender. Providing demographic information is	
nurnoses only and will not be used to c	letermine an applicant's eligibility for programs or services for which they	
apply.	retermine an apprease sengionity for programs of services for which they	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Yes, underserved	
	 Yes, small producer 	
	 Yes, underserved and small producer 	
	• No	
i - i Nimmer II	I don't know	
Logic: None – all respond	Required: No	
Data collection level: Producer	Data collection frequency: Initial enrollment	
Total area		
Data element name: l'otal area	Reporting question: What is the total area of the farm?	
Description: Total area of the farm ass	ociated with the Farm ID. Report total area of the farm, even if only a	
portion of the farm is enrolled in the p	roject. If a producer is enrolled in the project for multiple years, review	
Data type: list	Select multiple values: No	
Mancurament unit: Catagony	Allowed values	
weasurement unit: category	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 400 acres 	
	• 260 to 499 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	

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 are updates.	ea each time a new contract is signed and provide any necessary
Data type: Integer	Select multiple values: No
Measurement unit: Acres	Allowed values: 0-100,000
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment and subsequent enrollment(s), if applicable
Total livestock area	
Data element name: Total livestock area	Reporting question: What amount of the current operation is used for livestock (by area)?
Description: Area of the total farm that feeding or milking. If a producer is enro time a new contract is signed and provi	is currently used for pasture, grazing, rangeland; or animal housing, lled in the project for multiple years, review the total livestock area each de 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 least 10% of the land area is covered in enrolled in the project for multiple year provide any necessary updates.	is currently considered forest land use. Forest land use means that at trees that will be at least 13 feet tall when mature. If a producer is 's, review the total forest area each time a new contract is signed and
Data type: Integer	Select multiple values: No
Measurement unit: Acres	Allowed values: 0-100,000
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment and subsequent enrollment(s), if applicable

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

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

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

A		· Constanting
Orga	nic	tarm
- 0-	C 7 7 7 7	

Data element name: Organic farm

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

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

Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	• Yes
	• No
	I don't know
Logic: None – all respond	Required: No
Data collection level: Producer	Data collection frequency: Initial enrollment and
	subsequent enrollment(s), if applicable
Organic fields	-
Data element name: Organic fields	Reporting question: Are any of the fields enrolled in the
	project currently USDA-certified organic or transitioning to
Description: USDA-certified organic means th	ospa-certified organic:
certifying agent or is transitioning to USDA-ce	rtified organic by not using any of the prohibited substances. Yes
means that some or all of the fields enrolled in	n the project are certified organic or transitioning to certified
organic. No means that no part of the fields e	nrolled in the project are certified organic or transitioning to
certified organic. If a producer is enrolled in the	ne project for multiple years, review the organic certification status
of the enrolled fields each time a new contract	t is signed and provide any necessary updates.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
animanini ferma et annatificient anno - 18 fan 20 17 , each	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 fo	r enrolling in the project.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Financial benefit
	Environmental benefit
	 New market opportunity
	Partnerships or networks
	• Other
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment

Producer outreach	
Data element name: Producer outreach 1 3	 Reporting question: What types of outreach were provided to producers?
Description: Up to three most common ty activities are those focused on identifying recipient or project partners. The workshe values. Choose one value for each column blank. If "other" is chosen, use the addition pata type: List	pes of outreach provided to producer prior to enrollment. Outreach and enrolling producers in the project. Outreach can come from the set provides three columns with a drop-down list of the allowed . If there are fewer than 3 outreach types, leave unnecessary columns and column to enter other outreach types as free text.
Management with Catagonia	Allowed values. res
Measurement unit: Category	Allowed values:
	Commodity organizations
	Conterences Connerative extension
	Cooperative extension Digital communications and recourses
	Digital communications and resources Education workshops, field days, and town halls
	 Education workshops, held days, and town hans Evisting partner petworks
	Farm visits and one-on-one meetings
	General advertising
	Peer referrals and producer groups
	Phone calls
	Print communications and resources
	Retailers
	State agencies
	 Targeted messaging using proprietary data
	Technical service providers
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment
CSAF experience	
Data element name: CSAF experience	Reporting question: Has the primary operator implemented
	CSAF practices in the last ten years anywhere on the farm?
Description: Has this farm implemented c	limate-smart agriculture or forestry (CSAF) practices anywhere on the
farm in the past 10 years or since the curr	ent primary operator took control (whichever time period is shorter)?
CSAF practices are included in a list in App	endix 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 frequency: Initial enrollment

Data collection level: Producer

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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 or implementation supported by federal funds? not limited to, those from the Natural Resour Quality Incentives Program (EQIP), Conservat Program (RCPP), or related programs), the Fa funds from other USDA programs or other fe	pperator) has implemented CSAF practices in the last ten years, was Federal funds are defined as being from programs including, but rees Conservation Service ((NRCS), including through Environmental ion Stewardship Program (CSP), Regional Conservation Partnership rm Service Agency Conservation Reserve Program (CRP), as well as deral 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 funds	Reporting question: Were prior CSAF practices supported by state or local funds?	
Description: If this farm (under the primary or implementation supported by state funds? St or other state agencies, local water quality di	pperator) has implemented CSAF practices in the last ten years, was tate or local funds are those from state departments of agriculture stricts and other local agencies.	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Yes	
	• No	
512 8 1	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 or implementation supported by nonprofit fund organization to a producer.	perator) has implemented CSAF practices in the last ten years, was s? Nonprofit funds are those offered directly from a nonprofit	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Yes	
	• No	
	I don't know	
Logic: Respond if yes to 'CSAF experience'	Required: Yes	
Data collection level: Producer	Data collection frequency: Initial enrollment	


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 op implementation supported by market incentiv buyer or by a consumer based on branding or	erator) has implemented CSAF practices in the last ten years, was es? Market incentives include premiums paid by a commodity labeling as a climate-smart commodity.
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

Field Enrollment

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

Commodity category	
Data element name: Commodity category	Reporting question: What category of
Description: Category of commodity(ies) produced in fie	commodity(les) is (are) produced from this field?
Description: category of commonly(les) produced in he	Colort multiple velues. No
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Crops
	Livestock
	Trees
	Crops and livestock
	Crops and trees
	Livestock and trees
Trans Care Allerance served Barranses and	Crops, livestock and trees
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
Commodity type	
Data element name: Commodity type	Reporting question: What type of commodity is produced from this field?
Description: Type of commodity produced in field enroll worksheet provides a drop-down list of the allowed valu commodities in subsequent rows.	ed in the project. See full list in Appendix B. The es. Choose the appropriate value. Enter additional
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 field if possible. If not at field level, provide average annual Data type: Decimal	urs prior to enrollment. Provide yield for the enrolled ual yield for the specific commodity for the operation. Select multiple values: No
Measurement unit: Production per acre or animal	Allowed values: .01-100.000
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment

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 cl	hoices for this data element. If "other" is chosen, use the additional	
column to enter the appropriate yield uni	it as free text.	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	 Animal units per acre 	
	Bushels per acre	
	 Carcass pounds per animal 	
	Head per acre	
	Hundred-weights (or pounds) per head	
	Linear teet per acre	
	Elveweight pounds per animal Bounds 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 locati	on Reporting question: For what portion of the operation is the	
	baseline yield being reported?	
Description: Location of the reported ave	rage annual yield of commodity in 3 years prior to enrollment. If	
"other" is chosen, use the additional colu	mn to enter the appropriate location as free text.	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Enrolled field	
	Whole operation	
2 (22) 35	Other (specify)	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Initial enrollment	
Field land use	Several and the model and several and several and the sever	
Field land use Data element name: Field land use	Reporting question: What is this field's land use history?	
Field land use Data element name: Field land use Description: Prior to enrollment, what wa	Reporting question: What is this field's land use history? as the most common land use for this field in the past 3 years?	
Field land use Data element name: Field land use Description: Prior to enrollment, what wa Data type: List	Reporting question: What is this field's land use history? as the most common land use for this field in the past 3 years? Select multiple values: No	
Field land use Data element name: Field land use Description: Prior to enrollment, what wa Data type: List Measurement unit: Category	Reporting question: What is this field's land use history? as the most common land use for this field in the past 3 years? Select multiple values: No Allowed values:	
Field land use Data element name: Field land use Description: Prior to enrollment, what wa Data type: List Measurement unit: Category	Reporting question: What is this field's land use history? as the most common land use for this field in the past 3 years? Select multiple values: No Allowed values: • Crop land	
Field land use Data element name: Field land use Description: Prior to enrollment, what wa Data type: List Measurement unit: Category	Reporting question: What is this field's land use history? as the most common land use for this field in the past 3 years? Select multiple values: No Allowed values: • Crop land • Forest land	
Field land use Data element name: Field land use Description: Prior to enrollment, what wa Data type: List Measurement unit: Category	Reporting question: What is this field's land use history? as the most common land use for this field in the past 3 years? Select multiple values: No Allowed values: Crop land Forest land Non-agriculture	
Field land use Data element name: Field land use Description: Prior to enrollment, what wa Data type: List Measurement unit: Category	Reporting question: What is this field's land use history? as the most common land use for this field in the past 3 years? Select multiple values: No Allowed values: Crop land Forest land Non-agriculture Other agricultural land	
Field land use Data element name: Field land use Description: Prior to enrollment, what wa Data type: List Measurement unit: Category	Reporting question: What is this field's land use history? as the most common land use for this field in the past 3 years? Select multiple values: No Allowed values: Crop land Forest land Non-agriculture Other agricultural land Pasture	
Field land use Data element name: Field land use Description: Prior to enrollment, what wa Data type: List Measurement unit: Category	Reporting question: What is this field's land use history? as the most common land use for this field in the past 3 years? Select multiple values: No Allowed values: Crop land Forest land Non-agriculture Other agricultural land Pasture Range	
Field land use Data element name: Field land use Description: Prior to enrollment, what wa Data type: List Measurement unit: Category	Reporting question: What is this field's land use history? as the most common land use for this field in the past 3 years? Select multiple values: No Allowed values: Crop land Forest land Non-agriculture Other agricultural land Pasture Range Required: Yes	

Field irrigated	
Data element name: Field irrigated	Reporting question: What is this field's irrigation history?
Description: Prior to enrollment, what w	vas the most common irrigation practice on this field the past 3 years?
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	No irrigation
	Center pivot
	Drip-subsurface
	Drip-surface
	Flood/border
	Furrow/ditch
	 Lateral/linear sprinklers
	Micro-sprinklers
	Seepage
	Side roll
	Solid set sprinklers
	Supplemental
	Surface
	Iraveling gun/towline
	Wheel Line Other
Logic: None - all respond	Other Bequired: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
tald effect of revent freid	Data collection frequency. Initial enforment
Data element name: Field tillage	Reporting question: What is this field's tillage history?
	the string question. What is this new stringe instory:
Description: Prior to enrollment, what w	as the most common tillage approach during the past 3 years?
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
2001 - 24	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

Practice past extent - farm	
Data element name: Practice past extent - farm	Reporting question: What percent of the farm has implemented this CSAF practice (combination) previously?
used by the primary operator? If multiple practicate that best corresponds to the farm's prior expe	tices are planned to be implemented in this field, enter the value rience 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 CSA CSAF practices are included in a list in Append	NF practice or practices been used in this field in the past 3 years? ix 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: Field	Data collection frequency: Initial enrollment
Practice past use - this field	an Mar Ave rea brind relationated and a state and a
Data element name: Practice past use - this	Reporting question: Have this CSAF practice (combination)
field	been implemented previously in this field?
years? Enter yes if all of the practices had been being implemented and one or more, but not enter no if none of the practices had been use	all of the practice(s) been used in this field in the in the past 3 all of the practices had been used previously in this field; and d previously in this field.
Management with Catagony	Allowed values
weasurement unit: Category	Allowed values:
	• Some
	• No
	I don't know
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment

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 project? CSAF practices are included in a list i element. Enter one value for each column. If through enrollment in the project, leave unne Data type: List	s will be implemented on this field as part of enrollment in the n Appendix A. The worksheet provides seven columns for this data there are fewer than 7 practices being implemented on this field ecessary columns blank. 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 implet defined practice standard? The worksheet pri- each column, corresponding to the practice to practices being implemented on this field thre Data type: List	mented on the field as part of enrollment in the project following a ovides seven columns for this data element. Enter one value for ypes entered in the previous columns. If there are fewer than 7 ough enrollment in the project, leave unnecessary columns blank. Select multiple values: No
Measurement unit: Category	Allowed values:
	NRCS
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
Planned practice implementation year	
Data element name: Practice 1-7 implementation year	Reporting question: What year is the CSAF practice planned to be implemented?
Description: Year that the CSAF practice is pla defined as fields that have the practice active project). The worksheet provides seven colun corresponding to the practice types entered i implemented on this field through enrollmen Data type: Integer	anned to be implemented on the field. Use 2022 for early adopters ily implemented in 2022 (prior to contract being signed for this nns for this data element. Enter one value for each column, in the previous columns. If there are fewer than 7 practices being it in the project, leave unnecessary columns blank. 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 wher contract.	e the practice is being implemented in the field specified by the
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

Practice extent unit		
Data element name: Practice 1-7 extent unit	Reporting question: Unit for extent of practice implementation	
Description: Unit for extent of practic	ce implementation on the field specified by the contract. If "other" is	
chosen, use the additional column to	enter the appropriate unit.	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Acres	
	 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.

Farm Summary

Unique IDs

Farm ID	Unique Farm ID assigned by FSA	
State or territory	State name (must match FSA farm enrollment data)	2
County of residence	County name (must match FSA farm enrollment data)	-

Producer TA received

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

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

Data type: List

Select multiple values: No

Measurement unit: Category

Measurement unit: Category	Allowed values:
	Demonstration plots
	Equipment demonstrations
	 Group field days or in-person field workshops
	Hotline
	One-on-one enrollment assistance
	One-on-one field visits
	One-on-one producer mentorship
	 Producer networks and peer-to-peer groups
	Retailer consultation
	 Social media/digital tools
	 Train-the-trainer opportunities
	 Virtual meetings or field days
	 Webinars and videos
	Written materials
	None
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Quarterly
Producer incentive amount	
Data element name: Producer incentive	Reporting question: What is the total value of financial
amount	incentives provided to this producer?
Description: Total incentive payment receive	d by the producer from USDA project funds for the year (non-
cumulative). Do not include incentive payme	nts 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

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

Data collection level: Producer Data collection frequency: Quarterly

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 provides four columns with a drop-down line are fewer than 4 incentive types, leave unit	ve payments to producers (based on dollar value). The worksheet st of the allowed values. Choose one value for each column. If there necessary columns blank. If "other" is chosen, use the additional
column to enter other incentive types as fr	'ee text.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Cash payment
	Equipment loan
	 Guaranteed commodity premium payment
	Inputs and supplies
	Land rental
	Loan Paid labor
	Post-harvest transportation
	Tuition or fees for training
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Quarterly
Payment on enrollment	
Data element name: Payment on enrollment Description: Any incentive payment provid related to any implementation, MMRV or contract held by the producer is paid upon incentive amount for any contract held by of the full incentive amount for any contra Data type: List Measurement unit: Category Logic: None – all respond	Reporting question: What portion of the financial incentive is provided to the producer upon enrollment in the project? led to the producer upon enrollment/signing a contract, and not sales activities. Full payment means the full incentive amount for any enrollment. Partial payment means that only part of the full the producer is paid upon enrollment. No payment means that none ct held by the producer is paid upon enrollment. Select multiple values: No Allowed values: • Full payment • Partial payment • No payment Required: Yes
Data collection level: Producer	Data collection frequency: Quarterly
Payment on Implementation	Poporting question What portion of the first
Data element name: Payment on implementation Description: Any incentive payment provid contract. Full payment means the full incer implementation. Partial payment means th producer is paid upon implementation. No contract held by the producer is paid upon Data type: List	Reporting question: What portion of the financial incentive is provided to the producer upon implementation of the practices? led to the producer upon implementing the practices included in the ntive amount for any contract held by the producer is paid upon nat only part of the full incentive amount for any contract held by the payment means that none of the full incentive amount for any implementation. Select multiple values: No
Measurement unit: Category	Allowed values: • Full payment • Partial payment • No payment
Logic: None – all respond	Requirea: Yes
Data collection level: Producer	Data collection frequency: Quarterly

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 provide included in the contract. Full payment mean paid upon harvest. Partial payment means the the producer is paid upon harvest. No paym held by the producer is paid upon harvest.	d to the producer upon harvesting or slaughtering the commodity s the full incentive amount for any contract held by the producer is hat only part of the full incentive amount for any contract held by ent means that none of the full incentive amount for any contract
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Full payment
	Partial payment
	No payment
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Quarterly
Payment on MMRV	
Data element name: Payment on MMRV	Reporting question: What portion of the financial incentive is provided to the producer upon completing MMRV requirements?
paid upon MMRV being complete. Partial pa contract held by the producer is paid upon M incentive amount for any contract held by the	is the full incentive amount for any contract held by the producer is syment means that only part of the full incentive amount for any MMRV being complete. No payment means that none of the full ne producer is paid upon MMRV being complete.
Data type: List	Select multiple values: No
Data type: List Measurement unit: Category	Select multiple values: No Allowed values:
Data type: List Measurement unit: Category	Select multiple values: No Allowed values: • Full payment
Data type: List Measurement unit: Category	Select multiple values: No Allowed values: • Full payment • Partial payment
Data type: List Measurement unit: Category	Select multiple values: No Allowed values: • Full payment • Partial payment • No payment
Data type: List Measurement unit: Category Logic: None – all respond	Select multiple values: No Allowed values: • Full payment • Partial payment • No payment Required: Yes
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon role of the commedity?
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provide	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? d to the producer upon sale of the commodity included in the
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provide contract. Full payment means the full incent Partial payment means that only part of the upon sale. No payment means that none of paid upon sale.	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? d to the producer upon sale of the commodity included in the ive amount for any contract held by the producer is paid upon sale. full incentive amount for any contract held by the producer is paid the full incentive amount for any contract held by the producer is
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provide contract. Full payment means the full incent Partial payment means that only part of the upon sale. No payment means that none of paid upon sale. Data type: List	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? d to the producer upon sale of the commodity included in the tive amount for any contract held by the producer is paid upon sale. full incentive amount for any contract held by the producer is paid the full incentive amount for any contract held by the producer is Select multiple values: No
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provide contract. Full payment means the full incent Partial payment means that only part of the upon sale. No payment means that none of paid upon sale. Data type: List Measurement unit: Category	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? d to the producer upon sale of the commodity included in the tive amount for any contract held by the producer is paid upon sale. full incentive amount for any contract held by the producer is paid the full incentive amount for any contract held by the producer is Select multiple values: No Allowed values:
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provide contract. Full payment means the full incent Partial payment means that only part of the upon sale. No payment means that none of paid upon sale. Data type: List Measurement unit: Category	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? d to the producer upon sale of the commodity included in the ive amount for any contract held by the producer is paid upon sale. full incentive amount for any contract held by the producer is paid the full incentive amount for any contract held by the producer is Select multiple values: No Allowed values: Full payment
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provide contract. Full payment means the full incent Partial payment means that only part of the upon sale. No payment means that none of paid upon sale. Data type: List Measurement unit: Category	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? d to the producer upon sale of the commodity included in the live amount for any contract held by the producer is paid upon sale. full incentive amount for any contract held by the producer is paid the full incentive amount for any contract held by the producer is Select multiple values: No Allowed values: Full payment Partial payment
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provide contract. Full payment means the full incent Partial payment means that only part of the upon sale. No payment means that none of paid upon sale. Data type: List Measurement unit: Category	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? d to the producer upon sale of the commodity included in the tive amount for any contract held by the producer is paid upon sale. full incentive amount for any contract held by the producer is paid the full incentive amount for any contract held by the producer is Select multiple values: No Allowed values: Full payment Partial payment No payment
Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provide contract. Full payment means the full incent Partial payment means that only part of the upon sale. No payment means that none of paid upon sale. Data type: List Measurement unit: Category Logic: None – all respond	Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? d to the producer upon sale of the commodity included in the ive amount for any contract held by the producer is paid upon sale. full incentive amount for any contract held by the producer is paid the full incentive amount for any contract held by the producer is paid the full incentive amount for any contract held by the producer is Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes

Field Summary		
Unique IDs		
Farm ID	Unique Farm ID assigned by FSA	
Tract ID	Unique Tract ID assigned by FSA	
Field ID	Unique Field ID assigned by FSA	
State or territory of field	State name (must match FSA farm enrollment data)	
County of field	County name (must match FSA farm enrollment data)	
Commodity type		
Data element name: Commodity ty	pe Reporting question: What type of commodity is produced from this field?	
Description: Type of commodity pro worksheet provides multiple column column. Leave unnecessary columns	oduced in field enrolled in the project. See full list in Appendix B. The ns with a drop-down list of the allowed values. Choose one value for each s blank.	
Measurement unit: Category	Allowed values: FSA commodity list	
logic: None – all respond	Required: Ves	
Data collection level: Field	Data collection frequency: Quarterly	
Practice type		
Data element name: Field practice to Description: Which climate-smart age this project? CSAF practices are inclu- data element. Enter one value for ea- field through enrollment in the projection Data type: List	Expe 1-7 Reporting question: What CSAF practice is being implemented in this field through the project? griculture or forestry (CSAF) practice or practices are being implemented in uded in a list in Appendix A. The worksheet provides seven columns for this ach column. If there are fewer than 7 practices being implemented on this ect, leave unnecessary columns blank. 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 of	complete Reporting question: When did the project certify CSAF practice implementation as complete?	
Description: Date that the project of Use January of the year prior to con implemented in the year prior to a c seven columns for this data element entered in the previous columns. If t enrollment in the project, leave unn Data type: Date	ertifies that implementation of the CSAF practice is complete on the field. tract year for early adopters, defined as fields that have the practice actively contract associated with this project is signed). The worksheet provides t. Enter one value for each column, corresponding to the practice types there are fewer than 7 practices being implemented on this field through necessary columns blank. Select multiple values: No	
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023 - 12/31/2030	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	

Contract end date	
Data element name: Contract end date	Reporting question: Contract end date
Description: End date listed on the contract that end submit updated end date during the next quarter's not submit updated end date date date date date date date dat	rolls the field in the project. If contract end date changes, eporting.
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 includes in-field support for the use of technologies, support related to MMRV. MMRV is defined a measu monitoring (ongoing review and confirmation that the to the agreed upon standard and documentation of a impacts over time), reporting (documenting and shar partners, the recipient, and any third-party verification confirmation that measurement, monitoring and rep Data type: List	the primary operator for this field? MMRV assistance consultation on data collection and input, and other arement (calculations or estimations of GHG emissions), the climate-smart practice has been implemented according any changes in the site, implementation, or GHG emissions ring monitoring and measurement results with project on organization), and verification (independent porting information are complete, accurate and reliable). Select multiple values: No
Measurement unit: Category	Allowed values:
	• Yes
	• No
Legie Neno all respond	I don't know Required. Yes
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Marketing assistance provided	Poporting quarties: Was marketing assistance
Data element name: Warketing assistance provided	provided?
from this field? Marketing assistance provided for the sale of the commodity(ies), providing a label, Data type: List	to the primary operator for the commodity(ies) produced nteeing the sale of the commodity(ies), providing a platform branding, or other support related to marketing. Select multiple values: No
Measurement unit: Category	Allowed values:
	• Yes
	• No
Locia Nana allananad	I don't know
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Incentive per acre or head	D
Data element name: Incentive per acre or head	per-head incentive?
Description: Is this field receiving an incentive payme	ent to implement a specific CSAF practice or set of practices
on a per-acre or per-head (livestock) basis?	Salact multiple values: No
Massurement unit: Catagony	Allowed values: No
weasurement unit. Category	Yes
	• No
	I don't know
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly

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 pro	duced 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 unit Description: The unit associated with the volum chosen, enter the appropriate value in the addi	Reporting question: What is the unit of volume? ne of the commodity produced on the enrolled field. If "other" is itional column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Bushels
	Carcass weight pounds Callenge
	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 un	nit 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

Cost unit		
Data element name: Cost unit	Reporting question: What is the unit for cost?	
Description: The unit associated with the co	ost of implementing CSAF practices in the field. If "other" is chosen,	
enter the appropriate value in the addition	al column.	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Per acre	
	Per bushel	
	Per head	
	Per linear foot	
	Per pound Per top	
	Other (specify)	
logic: None – all respond	Required: Yes	
Data collection levels Field	Data sollaction from unarterly	
	Data conection frequency. Quarterly	
Cost coverage	Paparting question: What parcent of the practice cost is	
Data element name: Cost coverage	covered by the incentive?	
Description: Estimated proportion of total	annual cost of implementing the practice(s) that is covered by project	
incentives.		
Data type: Integer	Select multiple values: No	
Measurement unit: Percent	Allowed values: 0-100	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	
Field GHG monitoring		
Data element name: Field GHG monitoring 1-3	Reporting question: How were GHG impacts monitored in this field?	
Description: Up to the top three forms of n	nonitoring GHG benefits as part of MMRV requirements. Monitoring	
is defined as ongoing review and confirmat	ion that the climate-smart practice has been implemented according	
to the agreed upon standard and documen	tation of any changes in the site, implementation, or GHG emissions	
impacts over time. Include up to 3 methods	s, based on which methods are most commonly used for this field.	
The worksheet provides three columns with	n a drop-down list of the allowed values. Choose one value for each	
column. If fewer than 3 GHG monitoring me	ethods are used, leave unnecessary columns blank. If "other" is	
chosen, use the additional column to enter	other GHG monitoring methods as free text.	
ata type: List Select multiple values: No		
Measurement unit: Category	Allowed values:	
	Drones Crewed level above and indexed	
	Ground-level photos and videos On form inspection	
	 Distribution Plot-based campling (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	

Field GHG reporting	
Data element name: Field GHG reporting 1-3	Reporting question: How were GHG benefits reported for this field?
Description: Up to the top three forms of re- is defined as documenting and sharing mon- recipient, and any third-party verification or most commonly used for this field. The wor- values. Choose one value for each column. I columns blank. If "other" is chosen, use the text.	porting on GHG benefits as part of MMRV requirements. Reporting itoring and measurement results with project partners, the ganization. Include up to 3 methods, based on which methods are ksheet provides three columns with a drop-down list of the allowed f fewer than 3 GHG reporting methods are used, leave unnecessary additional column to enter other GHG reporting methods as free
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Automated devices
	Email
	Mobile app
	Paper
	Third-party actors
	Website
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Field GHG verification	
Data element name: Field GHG verification	Reporting question: How was implementation of practices to
1-3	reduce GHG emissions verified for this field?
defined as independent confirmation that n accurate and reliable. Include up to 3 metho The worksheet provides three columns with column. If fewer than 3 GHG verification me chosen, use the additional column to enter Data type: List	The source of the second secon
Measurement unit: Category	Allowed values:
	Artificial intelligence
	Computer modeling
	Recipient audit
	Photos Descard audit
	Satellite imagen
	Satellite Inlagery Site or field visit
	Third-party audit
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly

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 calc	ulate GHG benefits in this field. If yes to direct physical
measurements, submit result reports (see S	upplemental Data Submission – Field direct GHG measurement
results).	Select multiple values: No
Measurement unit: Category	Allowed values:
Weasurement unit: Category	Models
	Direct field measurements
	• Both
Logic: None – all respond	Required: Yes
Data collection level: 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 calcula	ate the official GHG benefits in this field that are reported as part of
the project's aggregate impact.	Folost multiple volues: No
Data type: List	Select multiple values. No
Measurement unit: Category	Allowed values:
	 Direct field measurements
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Field official GHG FR	Data concentration (a carrenty
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 emi	ssion 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 carb	on stock based on practice implementation in this field. This data
2 67 tons of CO.og	is cumulative for the year. Conversion rate is one ton of carbon =
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO.ed	Allowed values: 0-10.000.000
Logic: None – all respond	Required Yes
Data collection level: Field	Data collection frequency: Quarterly
Data collection level: Field	Data conection frequency. Quarterly

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 em	ission reductions based on practice implementation in this field
that are reported as part of the project's aggreg	gate impact. This data element must be entered upon practice
completion or annually, as appropriate.	Colort multiple unluce. No
Data type: Decimal	All and a local second
Measurement unit: Metric tons CO ₂	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
completion or appually as appropriate. Conver	sign rate is one top of $CH = 25$ tops of CO or
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tops CH4 reduced in	
COved	Allowed Values: 0-10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Field official N20 ER	
Data element name: Field official N2O emission	Reporting question: What are the estimated total N2O
reductions	emission reductions in this field?
Description: Estimated total nitrous oxide emis	sion reductions based on practice implementation in this field
that are reported as part of the project's aggres	gate impact. This data element must be entered upon practice
completion or annually, as appropriate. Conver	sion rate is one ton of $N_2O = 298$ tons of CO_2eq .
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons N2O reduced in CO ₂ eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Field offsets produced	
Data element name: Field offsets produced	Reporting question: How many carbon offsets have been produced in this field?
Description: Total carbon offsets produced in the	ne field during the quarter (not cumulative). Offsets are defined
as having been verified and certified using an a	ccepted 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

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
firm.	ccepted standard and accounted for within Scope 3 emissions for a
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Other field measurement	
Data element name: Other field	Reporting question: Were data collected from the field for
measurement	reasons other than GHG benefit estimation?
Description: Direct physical measurements of benefits estimation. These reasons could inc environmental benefits (see Field environme corresponding reports (see Supplemental da	or data collection taken in the field for any reason other than GHG lude calibration of GHG estimation tools or models, tracking other ental benefits report), and other reasons. If yes, submit ta submission - Field direct measurement results).
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Yes
	• No
	 I don't know
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly

GHG Benefits - Alternate Modeled

Unique IDs		
Farm ID	Unique Farm ID assigned by FSA	
Tract ID	Unique Tract ID assigned by FSA	
Field ID	Unique Field ID assigned by FSA	
State or territory of field	State name (must match FSA farm enrollment data)	
County of field	County name (must match FSA farm enrollment data)	
Commodity type		
Data element name: Commodity type	1-6 Reporting question: What type of commodity(ies) is produced from this field?	
Description: Type of commodity(ies) in Appendix B. The worksheet provide one value for each column. Leave unn Data type: List	produced in field enrolled in the project. See full list of commodity options s multiple columns with drop-down lists of the allowed values. Choose ecessary columns blank 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	7 Reporting question: What CSAF practice is being implemented by this project?	
Description: Which CSAF practice or p included in a list in Appendix A. The w for each column. If there are fewer the columns blank.	ractices are being implemented in this project? CSAF practices are orksheet provides seven columns for this data element. Enter one value an 7 practices being implemented by the project, leave unnecessary	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values: See list in Appendix A	
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods	
Data collection level: Field	Data collection frequency: Annual	

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:
5.1	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 (CIBU)
	SNAPGRAZE
	Squarekoots
	• SWAT-C
	STIVIFUNI Truterra Sustainability Tool
	Vorra
	• Veria
	WEPP VeedStick
	Yarusuck
Logic: Nono - all respond	Other (specify) Permined: If project calculates GHG benefits using multiple methods
Logic: None – an respond	Required: in project calculates one benefits using multiple methods
Data collection level: Field	Data collection frequency: Annual

Model start date	
Data element name: Model start date	Reporting question: For what time period are the GHG benefits modeled (model start date)?
Description: Date that the model parameter	rs 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	2
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 parameter	rs end.
Data type: Date	Select multiple values: NA
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023-12/31/2030
Logic: None – all respond	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	Reporting question: What is the alternate estimate of the field's
estimated	total GHG emission reductions?
Description: Total greenhouse gas emission	reductions from practice implementation in the field estimated
Data type: Decimal	Select multiple values: No
Massurement unit: Metric tons CO-eq	Allowed values: 0-10,000,000
legis None off second	Required of project colouistos CUC honofits using multiple
Logic: None – all respond	methods
Data collection level: Field	Data collection frequency: Annual
Total carbon stock estimated	
Data element name: Total carbon stock	Reporting question: What is the alternate estimate of how much
estimated	carbon has the field has sequestered?
Description: Total change in carbon stock ba	ased on practice implementation in the field estimated using an
alternate model. Conversion rate is one ton	of carbon = 3.67 tons of CO ₂ eq.
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons 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
Total CO2 estimated	
Data element name: Total CO2 estimated	Reporting question: What is the alternate estimate of the field's total CO2 emission reductions?
Description: Total carbon dioxide emission r	reductions based on practice implementation in the field estimated
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO.	Allowed values: 0-10.000.000
Logic: None – all respond	Required: If project calculates GHG benefits using multiple
Data collection level: Field	Data collection frequency: Annual



Total CH4 estimated	
Data element name: Total CH4 estimated	Reporting question: What is the alternate estimate of the field's total CH4 emission reductions?
Description: Total methane emission reductions based on pra- an alternate model. Conversion rate is one ton of CH ₄ = 25 ton	ctice implementation in the field estimated using s of CO2eq.
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CH4 reduced in CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods
Data collection level: Field	Data collection frequency: Annual
Total 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 top of N_2O	practice implementation in the field estimated
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

GHG Benefits - Measured

e IDs	
	e IDs

Single 185			
Farm ID	Unique Farm ID assigned I	by FSA	
Tract ID	Unique Tract ID assigned I	by FSA	
Field ID	Unique Field ID assigned b	Unique Field ID assigned by FSA	
State or territory of field	State name (must match FSA farm enrollment data)		
County of field	County name (must match FSA farm enrollment data)		
GHG measurement method			
Data element name: GHG mea	asurement method	Reporting question: What measurement method is used	
		to calculate GHG benefits?	
Description: Field-based meas	urement method used to calculate	e 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:	
unt normal territer des transmitten (* 1980 - 1982 - 1995 - 1995)		 Emissions measurement unit 	

Elux towars
Flux towers

- Litterbags .
- Plant measurements ٠
- Portable emissions analyzers
- Soil flux chambers
- Soil samples .
- Soil sensors
- Vehicle-mounted sensors .
- Other (specify)

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
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 d	ata and conducted analysis of samples.
Data type: Text	Select multiple values: No
Measurement unit: NA	Allowed values: Free text

Data collection frequency: Annual

Logic: None - all respond Required: If applicable

Data collection level: Field

Measurement start date	
Data element name: Measurement start date	Reporting question: On what date did the
Description: Date that the measurements began of it w	as a single point in time use the same date for start date
and end date. If multiple measurements took place over	r a time period, use the date that the measurements first
began.	
Data type: Date	Select multiple values: No
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023 – 12/31/2030
Logic: None – all respond	Required: If a project conducts soil samples or takes carbon stock or greenhouse gas emission measurements in this field
Data collection level: Field	Data collection frequency: Annual
Measurement end date	
Data element name: Measurement end date	Reporting question: On what date did the measurement end?
Description: Date that the measurements began. If it w	as a single point in time, use the same date for start date
and end date. If multiple measurements took place ove were completed	r a time period, use the date that the measurements
Data type: Date	Select multiple values: No
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023- 12/31/2030
Logic: None – all respond	Required: If a project conducts soil samples or takes
219 Active Sector Contraction Contractions	carbon stock or greenhouse gas emission
	measurements in this field
Data collection level: Field	Data collection frequency: Annual
Total CO2 reduction calculated	
Data element name: Total CO2 reduction calculated Description: Total annual CO2 emission reductions base	Reporting question: What are the total measured CO2 emission reductions? ed on practice implementation in the field calculated
from in-field measurements.	Colort multiple values. No
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 a project takes carbon stock or greenhouse gas emission measurements in this field
Data collection level: Field	Data collection frequency: Annual
Total field carbon stock measured	
Data element name: Total field carbon stock	Reporting question: What is the total amount of
measured	in this field?
Description: Change in carbon stock based on practice i	mplementation in the field calculated from repeat soil
sampling in this field. (Results for initial field soil sample	es should be reported in the 'Soil sample result' and
Neasurement type columns.) Conversion rate is one t	on of carbon = 3.67 tons of CO ₂ eq.
Macaurament with Matrix term CO	Allowed values 0.10.000.000
weasurement unit: Wetric tons CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	carbon stock measurements in this field
Data conection level. Field	Data concetton nequency. Annual

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	based on practice implementation in the field calculated	
from in-field measurements. Conversion rate is one ton o	of $CH_4 = 25$ tons of CO_2eq .	
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 reduction calculated from in-field measurements. Conversion rate in Detections	ons based on practice implementation in the field s one ton of $N_2O = 298$ tons of CO_2eq .	
Data type: Decimal	Select multiple values: No	
Measurement unit: Metric tons N2O reduced in CO 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 determi	ine the carbon stock of a soil (the tons of carbon found	
in a specified volume of soil).		
Data type: Decimal	Select multiple values: No	
Measurement unit: Amount	Allowed values: .00001-100,000	
Logic: None – all respond	Required: If a project conducts soil samples in this field	
Data collection level: Field	Data collection frequency: Annual	

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

Additional Environmental Benefits

Unique IDs			
Farm ID	Unique Farm ID	assigned by FSA	
Tract ID	Unique Tract ID assigned by FSA		
Field ID	Unique Field ID assigned by FSA		
State or territory of field	State name (must match FSA farm enrollment data)		
County of field	County name (must match FSA farm enrollment data)		
Environmental benefits			
Data element name: Envir	onmental	Reporting question: Are environmental benefits other than	
benefits		GHGs being tracked in the field?	
Description: Tracking of en sequestration in the enroll	wironmental bene ed field. Tracking r	fits other than greenhouse gas emission reductions and carbon neans at a minimum using some form of monitoring and reporting	
Data type: List		Select multiple values: No	
Measurement unit: Catego	orv.	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: Redu loss	ction in nitrogen	Reporting question: Are reductions in nitrogen losses being tracked in the field?	
Description: Tracking redu	ctions in nitrogen	osses in the enrolled field. Tracking means at a minimum using	
some form of monitoring a	nd reporting that	can quantify benefits.	
Data type: List		Select multiple values: No	
Measurement unit: Catego	pry	Allowed values:	
		• Yes	
		• No	
Lesie Despend if use to (Fr		I don't know	
henefits'	wronmental	Required: res	
Data collection level: Field		Data collection frequency: Annual	
Reduction in nitrogen loss a	mount		
Data element		Reporting question: How much reduction in nitrogen losses	
name: Reduction in nitrog	en loss amount	have been measured in the field?	
Description: Total amount	of reduction in nit	rogen losses that is measured and reported in the enrolled field.	
Data type: Decimal		Select multiple values: No	
Measurement unit: Amoun	nt	Allowed values: 0-1,000,000	
Logic: Respond if yes to 'Re nitrogen loss'	eduction in	Required: Yes	
Data collection level: Field		Data collection frequency: Annual	

Reduction in nitrogen loss amount unit	
Data element name: Reduction in nitrogen	Reporting question: What is the unit for how much reduction in
loss amount unit	nitrogen losses have been measured in the field?
Description: Unit for the total amount of rec	luction in nitrogen losses that is measured and reported in the
enrolled field. If "other" is chosen, enter the	appropriate value as free text in the additional column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	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	
Data element name: Reduction in nitrogen	Reporting question: What is the purpose of tracking reduction in
loss purpose	nitrogen losses?
Description: Purpose of tracking reduction in	n nitrogen losses in the enrolled field. If "other" is chosen, enter the
appropriate value as free text in the addition	ial 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 '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?
Description: Tracking of reductions in phosp	horus losses in the enrolled field. Tracking means at a minimum
using some form of monitoring and reporting	g 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 phosphorus loss amount	
Data element name: Reduction in	Reporting question: How much reduction in phosphorus losses
phosphorus loss amount	have been measured in the field?
Description: Total amount of reduction in ph	osphorus losses 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 'Reduction in	Required: Yes
phosphorus loss Data collection level: Field	Data collection frequency: Annual

Reduction in phosphorus loss amount unit	
Data element name: Reduction in	Reporting question: What is the unit for the reduction in
phosphorus loss amount unit	phosphorus losses measured in the field?
Description: Unit for the total amount of re-	duction in phosphorus losses that is measured in the enrolled field. If
"other" is chosen, enter the appropriate val	ue as free text in the additional column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Kilograms
	Metric tons
	Pounds
	Other (specify)
Logic: Respond if yes to 'Reduction in	Required: Yes
phosphorus loss'	
Data collection level: Field	Data collection frequency: Annual
Reduction in phosphorus loss purpose	
Data element name: Reduction in	Reporting question: What is the purpose of tracking reductions
phosphorus loss purpose	in phosphorus losses?
Description: Purpose of tracking reduction i	n phosphorus losses in the enrolled field. If "other" is chosen, enter
the appropriate value as free text in the add	litional 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 'Reduction in phosphorus loss'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Other water quality	
Data element name: Other water quality	Reporting question: Are other water quality metrics being
	tracked in the field?
Description: Project tracking of other water	quality metrics in the enrolled field. Tracking means at a minimum
using some form of monitoring and reportin	g 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

Other water quality type	
Data element name: Other water quality type Description: Type of other water quality me measured in the field. If "other" is chosen, o	Reporting question: What type of other water quality metric have been measured in the field? atric (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 amount	Reporting question: How much reduction in other water quality 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 amount unit	Reporting question: What is the unit for the reduction in other water quality metrics measured in the field?
Description: Unit for the total amount of re enrolled field. If "other" is chosen, enter the	duction in other water quality metrics that is measured in the expropriate value as free text in the additional column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Degrees F
	Kilograms
	Kilograms per liter
	Metric tons
	Pounds
	• Other (specify)
Logic: Respond if yes to 'Other water quality'	Kequired: Yes
Data collection level: Field	Data collection frequency: Annual

Other water quality purpose	
Data element name: Other water quality	Reporting question: What is the purpose of tracking other water
purpose	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
	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?
Description: Tracking of water conservation	or reduction in use in the enrolled field. Tracking means at a
minimum using some form of monitoring an	d 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
Water quantity amount	-
Data element name: Water quantity	Reporting question: How much water conservation has been
amount	measured in the field?
Description: Total amount of water conserva-	ation or reduction that is measured in the field.
Data type: Decimal	Select multiple values: No
Measurement unit: Amount	Allowed values: 0-1,000,000
Logic: Respond if yes to 'Water quantity'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Water quantity amount unit	=
Data element name: Water quantity	Reporting question: What is the unit for the amount of water
amount unit	conservation measured in the field?
Description: Unit for the total amount of wa	ter conservation or reduced use that is measured and reported in
the enrolled field. If "other" is chosen, enter	the appropriate value as free text in the additional column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Acre-feet
	Cubic feet
Lesia Desera di Guerra di Altra	Other (specify)
Logic: Respond if yes to Water quantity	Requirea: Yes
Data collection level: Field	Data collection frequency: Annual

Water quantity purpose	
Data element name: Water quantity	Reporting question: What is the purpose of tracking water
purpose	conservation?
Description: Purpose of tracking water conse	ervation or reductions in water use in the enrolled field. If "other" is
chosen, enter the appropriate value as free t	ext in the additional column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Commodity marketing
	Producing insets
	Producing offsets
	Other (applie)
Logic: Respond if yes to 'Water quantity'	Other (specify) Required: Yes
Data collection level: Eiold	Data collection from one Appual
	Data collection frequency: Annual
Reduced erosion	• and a first of the second second second second from the second second second second second second second second
Data element name: Reduced erosion	Reporting question: Is reduced soil erosion being tracked in the field?
Description: Tracking of reduced soil erosion	in the enrolled field. Tracking means at a minimum using some
form of monitoring and reporting that can qu	Jantify benefits.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	• Yes
	• No
1 1 B 117 17 17 17 1 1 1	I don't know
Logic: Respond if yes to 'Environmental	Required: Yes
Data collection level: Field	Data collection frequency: Annual
	Data concertor requercy. Annual
Reduced erosion amount	Depending an article University and article has been
amount	measured in the field?
Description: Total amount of erosion reduction	ion that is measured in the enrolled field
Data tuna: Decimal	Solort multiple values: No
Data type: Decimal	
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 ero	sion reduction from enrolled fields that is measured and reported
by the project. If "other" is chosen, enter the	appropriate value as free text in the additional column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Tons
	Other (specify)
Logic: Respond if yes to 'Reduced erosion'	Required: Yes
Data collection level: Field	Data collection frequency: Annual

Reduced erosion purpose	
Data element name: Reduced erosion	Reporting question: What is the purpose of tracking reduced
purpose	erosion in the field?
Description: Purpose of tracking reduced er	osion the enrolled field. If "other" is chosen, enter the appropriate
value as free text in the additional column.	e deservation de la conference sur
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Commodity marketing
	Producing insets
	Producing offsets
	I don't know
Lesia Deservatifuse to (Deduced evenies)	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?
Description: Tracking of reduced energy use	in the enrolled field. Tracking means at a minimum using some
form of monitoring and reporting that can q	uantify 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 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 use'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Reduced energy use amount unit	
Data element name: Reduced energy use	Reporting question: What is the unit for the energy use
unit	reduction measured in the field?
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:
	Kilowatt hours
	Other (specify)
Logic: Respond if yes to 'Reduced energy use'	Required: Yes
Data collection level: Field	Data collection frequency: Annual

Reduced energy use purpose	
Data element name: Reduced energy use	Reporting question: What is the purpose of tracking reduced
purpose	energy use in the field?
Description: Purpose of tracking reduced en	ergy use 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
	 Floudeling offsets I don't know
	Other (specify)
Logic: Respond if yes to 'Reduced energy use'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Avoided land conversion	
Data element name: Avoided land	Reporting question: Is avoided land conversion being tracked in
conversion	the field?
Description: Tracking of avoided land conve form of monitoring and reporting that can q agricultural uses to non-agricultural uses.	rsion in the enrolled field. Tracking means at a minimum using some uantify benefits. Land conservation means land use changing from
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	• Yes
	• No
· · · · · · · · · · · · · · · · · · ·	I don't know
Logic: Respond if yes to 'Environmental	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Avoided land conversion amount	Data conection nequency. Annual
Data element name: Avoided land	Penarting question: How much avoided land conversion has
conversion amount	heen measured in the field?
Description: Total amount of avoided land c	onversion that is measured in the enrolled field.
Data type: Decimal	Select multiple values: No
Measurement unit: Amount	Allowed values: 0-1 000 000
Logic: Respond if yes to (Avoided land	Provide Variation of 1,000,000
conversion'	Required. Tes
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 ave	oided land conversion that is measured in the enrolled field. If
"other" is chosen, enter the appropriate value	ue 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
Avoided land conversion purpose	
--	--
Data element name: Avoided land	Reporting question: What is the purpose of tracking avoided
conversion purpose	land conversion in the field?
Description: Purpose of tracking avoided land	conversion in the enrolled field. If "other" is chosen, enter the
appropriate value as free text in the addition	al column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Commodity marketing
	Producing insets
	Producing offsets
	Idon't know
Lesie Respond if was to (Avaided land	Other (specify)
conversion'	Required: res
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 wil	dlife in and around the enrolled field. Tracking means at a
minimum using some form of monitoring and	I 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'	and the second
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
nabitat amount Description: Total amount of improved wildli	been measured in the field?
Data type: Decimal	Select multiple values: No
Maasurement unit. Amount	Allowed values: 0.1.000.000
Measurement unit: Amount	Allowed values: 0-1,000,000
Logic: Respond if yes to 'Improved wildlife	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Improved wildlife babitat 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 imp	roved wildlife habitat that is measured in and around enrolled
fields. If "other" is chosen, enter the appropr	iate value as free text in the additional column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Acres
	Linear feet
	Other (specify)
Logic: Respond if yes to 'Improved wildlife habitat'	Required: Yes
Data collection level: Field	Data collection frequency: Annual

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

CSAF Practice Sub-questions

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

Table 11. Follow-on questions for select CSAF practices

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

		Coal
		Diesel
		Electricity
		Gasoline
	14 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Kerosene
	Fuel type before installation	Liquified petroleum gas (LPG)
		Natural gas
		Propane
		Wood
		Other (specify)
	Fuel amount before installation	0-1,000,000
		Cubic feet (natural gas)
		Gallons (diesel, gasoline, propane, LPG, kerosen
	Fuel amount unit before	Kilowatt-hours (electricity)
	Installation	Pounds (wood, coal)
Combustion System		Other (specify)
Improvement (CPS 372)		Coal
		Diesel
		Electricity
		Gasoline
	Fuel type offer installation	Kerosene
	Fuel type after installation	Liquified petroleum gas (LPG)
		Natural gas
	22	Propane
		Wood
		Other (specify)
	Fuel amount after installation	0-1,000,000
		Cubic feet (natural gas)
	Fuel amount unit after	Gallons (diesel, gasoline, propane, LPG, kerosen
	installation	Kilowatt-hours (electricity)
	InstandUUI	Pounds (wood, coal)
		Other (specify)
		Brassicas
Conservation Cover	Species category (select most	Grasses
(CPS 227)	common/extensive type if	Legumes
(013327)	using more than one)	Non-legume broadleaves
		Shrubs

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		Brassica
		Broadleaf
	22 AN N	Cool season
	Conservation crop type	Grass
		Legume
		Warm cascon
		Added acrossial cross
	Contraction of the second Contraction of the	Added perennial crop
Conservation Crop Rotation	Change Implemented	Reduced fallow period
(CPS 328)	z	Both
		Conventional (plow, chisel, dis
		No-till, direct seed
	Conservation crop rotation tillage type	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
10	openies (2008)	Mix
		Brassicas
	Species category (select most	Eorbs
	sommon (ovtonsivo tuno if using moro	Graces
	then and	Grasses
	than one)	Legurne New Jacobie Strandlaurer
	N.	Non-legume broadleaves
		Grazing
Cover Crop (CPS 340)	Cover crop planned management	Haying
	5 	Termination
		Burning
	Cover crop termination method	Herbicide application
		Incorporation
		Mowing
		Rolling/crimping
		Winter kill/frost
		Grass
	Species category (select most	Grass legume/forb mix
Critical Area Planting (CPS		Herbaceous woody mix
342)	common/extensive type if using more	Perennial or reseeding
	than one)	Shrubs
		Trees
	Crude protein (percent)	0-100
	Eat (nercent)	0-100
201 - 51 512	- ac percenty	Chamical
Feed Management (CPS 592)		
	Feed additives/supplements	
		Seaweed/keip
		Other (specify)
	Species category (select most	Forbs
Field Border (CDS 386)	common/extensive type if using more	Grasses
	than one)	Mix
	than oney	Shrubs

	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	Species category (select most common/extensive type if using more than one)	Forbs Grasses Mix Shrubs
barrers (CFS 005)	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 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 management (CPS 590)	Nutrient application method in the previous year	Banded Broadcast Injection Irrigation Surface application Surface application with tillage Variable rate
	Nutrient application timing with CPS 590	Single pre-planting Single post-planting Split pre- and post-planting Split post-planting
	Nutrient application timing in the previous year	Single pre-planting Single post-planting Split pre- and post-planting Split post-planting
	Nutrient application rate with CPS 590	0-20,000
	Nutrient application rate unit with CPS 590	Gallons per acre Pounds per acre
	Nutrient application rate change	Decrease compared to previous year Increase compared to previous year No change
Pasture and Hay Planting	Species category (select most common/extensive type if using more than one)	Cool-season broadleaf Cool-season grass Warm-season broadleaf Warm-season grass
(CPS 512)	Termination process	Grazing Haying (i.e., cutting and baling) Other (specify)
Prescribed Grazing (CPS 528)	Grazing type	Cell grazing Deferred rotational Management intensive Rest-rotation

Range Planting (CPS 550)	Species category (select most common/extensive type if using more than one)	Forbs Grasses Legumes Shrubs
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
(0.0002)	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
(0.0012)	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

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

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	

Appendix A: Climate-smart Agriculture and Forestry Practices

All NRCS Practice Standards (not limited to climate-sma	art practices)
309, Agrichemical Handling Facility	390, Riparian Herbaceous Cover
311, Alley Cropping	391, Riparian Forest Buffer
313, Waste Storage Facility	393, Filter Strip
314, Brush Management	394, Firebreak
315, Herbaceous Weed Treatment	395, Stream Habitat Improvement and Management
316, Animal Mortality Facility	396, Aquatic Organism Passage
317, Composting Facility	397, Aquaculture Pond
318, Short Term Storage of Animal Waste and By-Products	398, Fish Raceway or Tank
319. On-Farm Secondary Containment Facility	399, Fishpond Management
320, Irrigation Canal or Lateral	400, Bivalve Aquaculture Gear and Biofouling Control
324, Deep Tillage	402, Dam
325, High Tunnel System	410, Grade Stabilization Structure
326. Clearing and Snagging	412. Grassed Waterway
327. Conservation Cover	420. Wildlife Habitat Planting
328. Conservation Crop Rotation	422. Hedgerow Planting
329. Residue and Tillage Management, No Till	423. Hillside Ditch
330 Contour Farming	428 Irrigation Ditch Lining
331. Contour Orchard and Other Perennial Crops	428A. Irrigation Water Conveyance. Ditch and Canal Lining.
332 Contour Buffer Strips	Plain Concrete
333 Amending Soil Properties with Gynsum Products	428B Irrigation Water Conveyance Ditch and Canal Lining
334 Controlled Traffic Farming	Elexible Membrane
336 Soil Carbon Amendment	428C Irrigation Water Conveyance Ditch and Canal Lining
338 Prescribed Burning	Galvanized Steel
340 Cover Crop	430 Irrigation Pineline
342 Critical Area Planting	432 Dry Hydrant
345 Residue and Tillage Management Reduced Till	436. Irrigation Reservoir
348 Dam Diversion	411 Irrigation System Microirrigation
350. Sediment Basin	442, Sprinkler System
351, Well Decommissioning	442, Sprinker System
353. Monitoring Well	445, Irrigation system, Surface and Subsurface
355, Monitoring Weil 355, Groundwater Testing	447, Inigation Water Management
256 Dike and Lovee	445, Inigation Water Wanagement
250, Masta Traatmont Lagoon	450, Amonic Polyaci ylamide (PAN) Application
260 Waste Facility Closure	455, Land Reclamation, Landslide Treatment
262 Diversion	455, Land Reclamation, Toxic Discharge Control
266 Apparabio Digastar	457, Mille Shart and Aut Closing
267. Reafs and Course	460, Land Clearing
367, Roots and Covers	462, Precision Land Forming and Smoothing
271 Ale Filterties and Countries	464, irrigation Land Leveling
371, Air Filtration and Scrubbing	466, Land Smoothing
372, Combustion System Improvement	468, Lined Waterway or Outlet
373, Dust Control on Unpaved Roads and Surfaces	472, Access Control
374, Energy Efficient Agricultural Operation	484, Mulching
375, Dust Management for Pen Surfaces	490, Tree/Shrub Site Preparation
376, Field Operations Emissions Reduction	500, Obstruction Removal
378, Pond	511, Forage Harvest Management
379, Forest Farming	512, Pasture and Hay Planting
380, Windbreak/Shelterbelt Establishment and Renovation	516, Livestock Pipeline
381, Silvopasture	520, Pond Sealing or Lining, Compacted Soil Treatment
382, Fence	521, Pond Sealing or Lining, Geomembrane or
383, Fuel Break	Geosynthetic Clay Liner
384, Woody Residue Treatment	521A, Pond Sealing or Lining, Flexible Membrane
386, Field Border	521B, Pond Sealing or Lining, Soil Dispersant
388, Irrigation Field Ditch	521C, Pond Sealing or Lining, Bentonite Sealant

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

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

737, Reduced Water and Energy Coffee Conveyance System, interim

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

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

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

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

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

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

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

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

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

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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

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

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

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

III. Other Environmental and Cultural Resources Reviews

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

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

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

IV. Producer Benefits

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

V. Producer Data Protection and Disclosure

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

VI. Other Data and Reporting Requirements

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

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

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

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

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

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

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

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

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

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

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

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

VII. Competition and Anti-Competitive Practices

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

VIII. Suspension and Disbarment

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

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

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

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

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

X. Non-Disparagement

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