

U.S. Department of Agriculture Natural Resources Conservation Service

NOTICE OF GRANT AND AGREEMENT AWARD

1. Award Identifying Number	2. Amendment Nu	umber	3. Award /Project Per	iod	4. Type of award instrument:			
NR233A750004G037			Date of final signat 04/24/2028	ure -	Grant Agreement			
5. Agency (Name and Address)			6. Recipient Organization (Name and Address)					
USDA Partnerships for Climate-Smart Commodities c/o FPAC-BC Grants and Agreements Division 1400 Independence Ave SW, Room 3236 Washington, DC 20250 Direct all correspondence to FPAC.BC.GAD@usda.gov		NATIONAL ASSOCIATION OF CONSERVATION DISRICTS, INC. 509 CAPITOL COURT NE WASHINGTON DC 20002-4937 UEI Number / DUNS Number: JTKDKVH1PAL8 / 010808392 EIN:						
7. NRCS Program Contact	8. NRCS Adminis Contact	strative	9. Recipient Program Contact		10. Recipient Administrative Contact			
Name: ECHO DOMINGUES	Name: CHARLEN	e: CHARLENE WINTERS Name: Margaret Leader		der	Name: Karla Maldonado			
(b)(6)					I			
11. CFDA	12. Authority		13. Type of Action		14. Program Director			
10.937	15 USC 714 et se	pe	New Agreement	-	Name: Jennifer Nelligan			
					(b)(6)			
15. Project Title/ Description: Expand climate-smart Row Crops, Livestock, Forest and Specialty Crop markets nationwide and support farmer, rancher and forest landowner implementation and monitoring of climate-smart practices.								
16. Entity Type: M = Nonprofit with 501C3 IRS Status (Other than Institution of Higher Education)								
17. Select Funding Type								
Select funding type:		🔀 Federal		🕅 Non-Federal				
Original funds total		90,000,000.000		14329844.00				
Additional funds total		\$0.00		\$0.00				
Grand total		90,000,000.000		14329844.00				
18. Approved Budget				V				

Personnel	\$3,129,32	23.00	Fringe Benefits		\$1,251,730.00	
Travel	\$287,106	.00	Equipment		\$0.00	
Supplies	\$79,020.0	00	Contractual		\$4,978,254.00	
Construction	\$0.00		Other		80,274,567.000	
Total Direct Cost	89,457,00	8.000	Total Indirect Cost		\$542,992.00	
			Total Non-Federal Funds	ł	14329844.00	
		Total Federal Funds Awarded		90,000,000.000		
		Total Approved Budget		104,329,844.000		
award or amendment act on behalf of the a attachments), and ag	t and any pay wardee orga rees that acc	ments made pu nization, agrees ceptance of any	ursuant thereto, the undersigned rep	presen plicable	sistance Regulations. In accepting this ts that he or she is duly authorized to e provisions of this agreement (and all le payee that the amounts, if any,	
KATINA HANSON		ATINA Digitally signed by KATINA HANSON Date: 2023.04.24 08:50:46 -05'00'		e /24/2023		
Name and Title of Au Recipient Representa JEREMY PETERS CEO		^{Signature} Jeremy Peters	Digitally signed by Jeremy Peters Date: 2023.04.21 16:20:10 -04'00'	Date Apri	il 21, 2023	

NONDISCRIMINATION STATEMENT

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, SW., Washington, DC 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

PRIVACY ACT STATEMENT

The above statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. Section 522a).

Statement of Work

Purpose

The purpose of this agreement, between the U.S. Department of Agriculture, Natural Resources Conservation Service (NRCS) and the National Association of Conservation Districts (Recipient), is to build markets for climate-smart commodities and invest in America's climate-smart producers to strengthen U.S. rural and agricultural communities.

Objectives

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

Budget Narrative

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

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

TOTAL BUDGET \$ 104,329,844.00

TOTAL FEDERAL FUNDS \$ 90,000,000.00 PERSONNEL \$ 2,970,128.00 FRINGE BENEFITS \$ 1,188,052.00 TRAVEL \$ 272,500.00 EQUIPMENT \$0 SUPPLIES \$ 75,000.00 CONTRACTUAL \$ 4,725,000.00 CONSTRUCTION \$0 OTHER \$ 80,226,328.00 (includes PRODUCER INCENTIVES \$ 41,822,232) TOTAL DIRECT COSTS \$ 89,457,008.00 INDIRECT COSTS \$ 542,992.00

TOTAL NON-FEDERAL FUNDS \$ 14,329,844.00 PERSONNEL \$ 282,643.00 FRINGE BENEFITS \$0 TRAVEL \$0 EQUIPMENT \$0 SUPPLIES \$0 CONTRACTUAL \$0 CONSTRUCTION \$0 OTHER \$ 13,577,125.00 PRODUCER INCENTIVES \$0 TOTAL DIRECT COSTS \$ 13,859,768.00 INDIRECT COSTS \$470,076.00

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

Recipient has elected to use unrecovered indirect costs as match in the amount of \$ 470,076.00.

Responsibilities of the Parties:

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

RECIPIENT RESPONSIBILITIES

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

Ensure Paperwork Reduction Act (PRA) clearance is obtained prior to conducting data collection from producers or other project participants, including data collection performed by subrecipients.

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

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

Performance Reports: Quarterly

SF425 Financial Reports: Quarterly

Detailed Progress Report: Quarterly (The detailed progress report is in addition to the performance and financial reports referenced above and described in the general terms and conditions)

Expected Accomplishments and Deliverables

See attached Benchmarks Table and associated Project Narrative.

Resources Required

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

Milestones

See attached Benchmarks Table and associated Project Narrative.

GENERAL TERMS AND CONDITIONS

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

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

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Strengthening Grassroots Leadership & Capacity to Scale Climate-Smart Production Systems and Facilitate Historically Underserved Producers' Access to Markets

I. Executive Summary

The National Association of Conservation Districts (NACD) is a 501(c)(3) nonprofit organization that represents America's 3,000 conservation districts, state associations, and 17,000 governing board members.

Point of Contact. Jennifer Nelligan, Chief Program Officer(b)(6) (b)(6) 509 Capitol Court NE, Washington, DC 20002.

Project Partners. NACD will accomplish the objectives set forth in this proposal via its network of 3,000 conservation districts and their respective state or territory associations. Conservation District partners will also provide for extensive outreach to historically underserved communities and producers. Other partners focusing on historically underserved producers include the Indian Nations Conservation Alliance (INCA), Rural Coalition, the Kansas Black Farmers Association, and the Rural Advancement Fund of the National Sharecroppers Fund. Additional partners include the Ecosystem Services Market Consortium (ESMC), Field to Market: The Alliance for Sustainable Agriculture, HabiTerre, Cornell University Atkinson Center for Sustainability.

Compelling Need. Market demand for climate-smart commodities shapes supply. Producers are more likely to implement climate-smart production systems if transition risks are mitigated and they have ready access to profitable market opportunities. USDA's historic investment in the production of climate-smart commodities will spur demand; however, markets must be developed and sustained over time. NACD, through its project partners and network of 3,000 conservation districts, will advance grassroots efforts that ensure producers and local communities are prepared to meet growing demand and have access to climate-smart commodity markets.

- <u>Generate Interest & Momentum</u>: Organizations like NACD and the Conservation Districts can generate and sustain momentum within individual communities across the nation. Their extensive outreach and education efforts keep producers informed of evolving trends, standards, and profitable market opportunities so they are prepared to supply growing climatesmart markets.
- 2. <u>Spur Action</u>: One-on-one technical assistance and conservation planning helps producers understand the exact steps needed to implement climate-smart practices. NACD also proposes providing financial assistance to further incentivize action.
- 3. <u>Informed Decision Making</u>: Producers need sound data to inform decision-making. Our proposal provides producers with integrated financial/conservation planning to set expectations and help them understand the returns associated with their plans. We also propose an innovative pilot with HabiTerre to provide producers with custom reports (for over 2.8 million acres) that summarize their GHG emissions and carbon budget. Reports will also provide related technical guidance on how improved management practices can increase GHG benefits and economic returns on their farmlands. This reporting and data will help encourage action and inform decision-making.



4. <u>Trust Building & Growth</u>: All producers, especially those who are historically underserved, must have direct access to markets and realize profits in a reasonable timeframe. This builds trust in the system and spurs growth of climate-smart practices. NACD's market development and facilitation plans supports this goal and its efforts will generate momentum that can be sustained well beyond the period of this grant.

Approach to Reducing Producer Barriers. NACD's goal of leaving no producer behind – particularly historically underserved communities and producers – will support USDA's goals of advancing equity and inclusion. To close equity gaps, it is imperative that organizations like NACD facilitate producer access to markets and work across market players to identify opportunities for meaningful participation. Producers also need the tools and training to ensure their production systems are financially viable and marketable (i.e., meet evolving climate-smart standards). NACD's investments in capacity for outreach, integrated financial and conservation technical assistance, and market facilitation will have significant impacts on individual producers and communities. NACD will also invest in partnerships to increase outreach to historically underserved communities/producers across regions to identify meaningful ways in which we can lift barriers, help bundle acres/products, and facilitate access to markets.

Approach to Minimize Transaction Costs. NACD will centrally administer all technical and financial assistance payments, which creates an efficient, audit-ready process. NACD is also collaborating with HabiTerre on several initiatives to minimize transaction costs. First, its SYMFONI technology leverages advanced computing and technology to quantify GHG emissions and eliminate producers' need to collect or report data. This provides valuable insights into farm data that is otherwise difficult to access (e.g., big data held across multiple government agencies/academia or interpreted by proprietary quantification models). HabiTerre is streamlining reporting quantified outcomes to USDA. HabiTerre will provide access to its equipment (e.g., satellites and remote sensing technology) and data at no cost to NACD, which greatly streamlines our ability to monitor practice implementation across row crops, grasslands, and rangelands.

Geographic Focus. Conservation districts operate in nearly every county and territory in the United States. NACD will equitably distribute funding across the states and territories through a competitive grant process (described in Appendix A). NACD will also invest in the Indian Nations Conservation Alliance (INCA) and organizations that serve tribal producers. Conservation Districts must be able to demonstrate their ability to achieve the goals set forth in this proposal; strength of partnerships to advance outreach to historically underserved producers and facilitate access to markets will be emphasized.

Project Management Capacity. The competitive grant process ensures that climate-smart projects do not receive duplicative USDA funding and that NACD can strategically invest in local capacity where it is needed most. NACD has extensive experience serving as a pass-through organization for federal grants and cooperative agreements and will centrally administer all financial assistance payments. NACD has distributed over \$50 million in technical assistance funding to nearly 1,500 conservation districts. Through this program alone, districts developed over 17,000 conservation plans, obligated 40,000 contracts (assisted with an additional 62,000) and designed over 41,000 practices benefitting more than 3.2 million acres.



NACD has established procedures and tools for monitoring/reporting subaward status and performance. Staff have extensive experience reviewing/synthesizing financial data and performance reports for organized submission to federal partners. It should be noted that NACD's finances and grant activities are audited each year in accordance with generally accepted auditing standards and as required by Title 2 U.S. CFR 200. NACD has administered federal pass-through grants since 2016 and has received a clean audit each year.

Rural Coalition has worked to advance the interest of historically underserved producers and rural communities for 43 years. Their work includes extensive capacity building efforts with a special focus on helping match USDA programs/services with the needs of historically underserved communities and producers. Its members, the Rural Advancement Fund of the National Sharecroppers Fund and Black Farmers Association, will support outreach, conservation, and marketing. Support will be nationally led, with concentrated staff in Kansas and South Carolina.

Indian Nations Conservation Alliance (INCA) is a nonprofit 501(c)3 organization established to promote community-based and locally-led holistic conservation activities to protect Mother Earth for future generations by establishing and supporting Tribal Conservation Districts.

HabiTerre (legally registered as Aspiring Universe Corporation) is a spinoff company from a world-renowned academic lab from the University of Illinois. HabiTerre analyzes land resources at the scale of individual farms by combining artificial intelligence, deep domain science, and big data from multiple sources to provide actionable insights for optimal management of land and water. The HabiTerre team consists of leading researchers in environmental science, engineering, and artificial intelligence. HabiTerre has a strong past performance with federal grant programs, including the National Air and Space Administration (NASA) through its Harvest program. It has also received several SBIR grants from USDA and NSF, successfully finished around 15 carbon-related pilot projects, and won two startup awards.

Field-to-Market's members represent a diverse group of organizations across the agriculture value chain. This includes companies such as Nutrien, Bayer, Unilever, Pepsico, Walmart, Target, Corteva, BASF, etc. A dedicated Conservation District Fellow will support NACD and actively track corporate sustainability programs and goals, as well as identify and scope opportunities to engage conservation districts and producers in new climate-smart market initiatives.

Ecosystem Services Market Consortium (ESMC) generates quantified, verified supply chain outcomes and sells climate-smart commodities through its market program. ESMC is a valued partner that will provide the necessary education, training, and guidance to conservation districts and partners. ESMC will work with districts and partners to ensure they help producers understand how to participate in such markets and how districts/partners can bundle acres in order to facilitate access for small or historically underserved producers.

Cornell Atkinson Center for Sustainability is the hub for collaborative sustainability research at Cornell University. Their faculty include renowned leaders engaged in groundbreaking agricultural research across a wide range of commodities, regions and land/soil types. Their efforts



will involve developing educational materials and tools that support new or historically underserved producers' financial/business planning with the goal of transitioning them to climatesmart production systems and practices.

II. Plan to Scale Climate-Smart Practices

Approximately 70% of land in the lower 48 States is owned by private landowners. Transitioning an industry to climate-smart production systems therefore relies on the millions of individual decisions that landowners and operators make each day. The locally-led conservation delivery system is key to reaching and educating cooperating producers on the benefits of climate-smart production, providing the one-on-one technical expertise needed to implement climate-smart practices, and facilitating access to growing markets. NACD, in collaboration with the conservation districts and key project partners, is uniquely positioned to:

- Generate grassroots awareness, interest, and engagement in climate-smart commodity production programs and markets;
- Empower historically underserved communities and producers through targeted outreach, educational opportunities, and access to capital;
- Provide producers access to valuable, on-farm data to support their decision-making (e.g., potential impacts on costs or yield; forecasts for fertilizer or nitrogen use based on new practices, crop types, and soil profiles);
- Scale implementation of climate-smart production by providing one-on-one technical assistance and connecting producers directly to financial incentives that spur voluntary conservation (e.g., a combination of market incentives and federal/state financial assistance programs that strengthen their financial viability); and
- Ensure historically underserved communities and producers do not get left behind by facilitating their access to new and growing climate-smart commodity markets.

Anticipated Impacts

Over 90% of our proposed budget will go directly to producers in the form of technical or financial incentives for producers to implement conservation practices and systems (e.g., financial assistance payments, cost-share payments, field trials). Approximately 6% will provide for field enablement activities that strengthen the quality of technical support and facilitate producer access to growing climate-smart markets.



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Description of Practices: Conservation Districts utilize the conservation planning process to understand producers' economic objectives and unique natural resource concerns and design the appropriate <u>system</u> of climate-smart practices. Because districts work with such a wide range of operations and land/soil types, the specific climate-smart practices will vary.

Based on the last 5 years of data from NACD'S Technical Assistance grant program, we expect that top practices will include cover crop (340), grassed waterways (412), nutrient management (590), forest stand improvements (666), prescribed grazing (528), residue and tillage management (low and no-till, 345 and 329 respectively), tree/shrub establishment (612), forage and biomass planting (pasture and hay planting, 512), conservation crop rotation (328), and irrigation water management (449), conservation cover (327), and integrated pest management plans (595). The conservation planning process, which focuses on a system of practices, also generates environmental co-benefits such as water quality, general soil health, erosion reduction, habitat and wildlife management, plant productivity, and healthy grazing lands.

NACD supports adoption of other conservation practices that promote soil health, reduce GHG emissions, and achieve environmental co-benefits. For example, some producers may implement indigenous or cultural practices that achieve the objectives of increasing soil organic matter, storing carbon, improving soil health, and other co-benefits (e.g., water quality). NACD also supports implementation of practices that involve ground disturbance below the plow zone (e.g., fencing - 382, structural practices such as grassed waterways-412). For structural practices, conservation districts will leverage partners and contractors (e.g., engineers, TSPs) to ensure compliance with state and local laws, regulations, and ordinances. Excess soil water and inefficient nitrogen fertilizer application are the top drivers of nitrous oxide emissions.

Some project activities may involve concentrated animal feeding operations (e.g., access control -472, solid/liquid waste separation facility -632, pasture and hay planting -512, prescribed grazing -528). Because NACD is conducting a competitive sub-grant process, it is not yet clear whether CAFO projects will be proposed or how they will be ranked in the overall evaluation process. Projects involving CAFOs will largely be required to adhere to NRCS practice standards.

¹ The types of practices and operations will vary, so GHG benefits are approximate. Based on top conservation practices implemented, the estimated median is 0.5 - 0.76 tons/acre/year.



NACD also acknowledges that 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.

The full list of practices with NRCS standards and codes in place is summarized below:

NRCS Practice Code (if applicable)	Practice Name
340	cover crop
412	grassed waterways
590	nutrient management
666	forest stand improvements
528	prescribed grazing
345	residue and tillage management, reduced till
329	residue and tillage management, no till
612	tree/shrub establishment
512	pasture and hay planting
328	conservation crop rotation
449	Irrigation water management
327	conservation cover
595	integrated pest management plans
382	Fence
412	Grassed Waterway
472	Access control
632	Waste Separation Facility
386	Field Border

Adherence to Practice Standards, Use of Interim Standards, Field Trials, and Other Conservation Activities

NACD anticipates that NRCS standards (or interim standards) exist for the majority of practices it will fund. In this case, conservation districts will be responsible for certification (e.g., through conservation district staff, use of TSPs, engineers). However, NACD recognizes that there are other indigenous, ethnic, or innovative practices or enhancements that can reduce/sequester GHG emissions and may deserve attention. These practices may not have NRCS standards (or interim standards), payment scenarios, or rates. In this case, NACD awardees will work to develop district-led, state-based interim standards and/or implement conservation field trials.

Field trial results will be shared with USDA. It is our desire for USDA (NRCS) to consider incorporating successful trials and practices into its scientific, technical, and programmatic infrastructure. Our goal is to help USDA stimulate and advance innovation, as well as make a



broader portfolio of relevant practices available and accessible to producers (particularly those categorized as historically underserved).

Additional conservation activities may be used to support the planning and design of innovative, indigenous, or ethnic conservation practices or enhancements without practice standards (e.g., Conservation Planning Activities (CPA); Design & Implementation Activities (DIA); Conservation Evaluation & Monitoring Activities (CEMA). For example, NACD will leverage the Carbon Sequestration and GHG Mitigation Assessment (CEMA 218) to systemically evaluate the outcomes of an innovative, indigenous, or ethnic conservation practice or enhancement implemented through conservation field trials.

A key requirement of this grant is to develop and expand markets for climate-smart commodities. As such, NACD will only fund implementation of practices on working lands (whether crop, livestock, or forests). This may include edge of field or other supporting practices.

Outreach, Recruitment, and Enrollment: Conservation Districts have existing infrastructures and communications channels for conducting proactive farmer outreach and recruitment. District employees lead and attend community workshops and forums, work with local producer groups and co-ops, and are known to have "hours" in local coffee shops. Their follow-up includes site visits to walk the land and understand producers' specific production goals and issues. They are well-known entities and resources within their respective communities.

To achieve our goals of ensuring that producers across the country are prepared to meet growing demand and have access to climate-smart commodity markets, NACD's outreach and education efforts cannot focus solely on the technical assistance and financial incentives available to producers through NACD's grant program. Producers must be able to access the full portfolio of financial options and incentives available to them – this includes NACD's financial incentives, USDA Farm Bill programs, private financing options (e.g., sustainable financing, low-interest loans), corporate sustainability programs, ecosystem service markets, and other Climate-Smart Commodity Partnership programs. Outreach and education efforts must reach as many communities as possible and leverage all available resources.

NACD's proposal bolsters grassroots outreach by: 1) Increasing local capacity to serve historically underserved communities and producers; 2) Creating educational opportunities for districts, partners, and producer groups to ensure they stay at the forefront and maintain awareness of the opportunities available to producers; and 3) Supporting grassroots efforts through national coordination and information sharing.

Increase capacity. Technical Assistance funding will be competitively awarded to Conservation Districts to increase capacity for outreach, education, and technical assistance. NACD will also set aside funds to increase capacity in Tribal Nations. NACD will make non-competitive investments in the Indian Nations Conservation Alliance (INCA) and through the NACD Tribal Outreach & Partnerships Resource Policy Group, we will identify additional ways to distribute funding to directly support outreach and programming that supports indigenous producers. This process



ensures that funding can be distributed equitably to initiatives with the most need and reduces the risk of duplicating funding streams. NACD is also pleased to partner with Rural Coalition and their members, the Rural Advancement Fund of the National Sharecroppers Fund and Kansas Black Farmers Association to strengthen Conservation Districts' outreach to historically underserved communities and producers.

Conservation district and partner Outreach Specialists will collaborate to create and host educational opportunities for historically underserved communities/groups, connect producers to technical assistance and financial incentives, provide guidance on enrollment processes/requirements, and provide hands-on assistance preparing paperwork. Outreach specialists will also help producers enroll in USDA programs (e.g., obtain farm and tract #s, coordinate with FSA offices to navigate heirs' property and other land rights issues, help connect producers to the Heirs' Property Relending Program and other programs to help producers resolve ownership/succession on farmland with multiple owners).

Create Educational Opportunities. To achieve our goal of leaving no producer behind, Conservation Districts and partners must stay informed about available opportunities within the climate-smart commodities program and growing market, trends in MMRV and supply chain tracing, evolving standards, etc. At the national level, NACD will work with several partners to deliver an ongoing series of informational sessions, trainings, and other educational opportunities to districts, partners, producer groups, and our growing network of Soil Health Champions.

These "train the trainer" style sessions will be designed to improve the quality of engagements and encourage farmer-to-farmer outreach. Topics will include training on items such as in supply chain/Scope 3 protocols, MMRV standards, insights into corporate sustainability programs, what to expect after enrolling in carbon or ecosystem service markets, how to work across districts to bundle acres/products to facilitate small/historically underserved producers' access to markets, etc. Field-to-Market and ESMC have committed to a partnership and creating such opportunities (further described in Section IV).

Support Grassroots Efforts Through National Coordination and Information Sharing. Coordination and information sharing amongst Conservation Districts, partners, and producer groups is key. We will facilitate quarterly roundtables that leverage our grassroots model and ensure that any programmatic challenges, issues, and barriers are understood and addressed. NACD will leverage its existing communications channels for mass-audience awareness and information sharing. Our weekly "eResources" newsletter has over 16,000 subscribers. We also publish daily Conservation Clips, a monthly newsletter, monthly Forestry Notes, and ad-hoc Press Releases (to media and news outlets). NACD will also implement a searchable hub for centralized updates and to publish information about emerging funding opportunities, programs, and educational materials relating to climate-smart production or markets.

Technical Assistance. Technical assistance will be delivered by conservation districts and their selected partners (e.g., Rural Coalition, Kansas Black Farmers Association, Rural Advancement Fund of the National Sharecroppers Fund, Agricultural Conservation Experienced Services (ACES) program). Specific projects will be selected via a competitive sub-grant process.



Conservation Districts have extensive experience delivering sound conservation technical assistance for a wide variety of operations, large and small, commodity and specialty crops, livestock, grasslands, rangelands, and forests. The first conservation district was established in the wake of the Dust Bowl in 1937 and conservation districts have been a core member of the Conservation Delivery System ever since. There is no question that Conservation Districts have the presence and technical skillsets needed to advance climate-smart production via the locally-led process.

USDA requires participating producers to establish Farm/Tract numbers, be compliant with Highly Erodible Land (HEL) and Wetland Compliance (WC) provisions, and undergo an environmental evaluation to determine whether an Environmental Assessment or Impact Statement is needed. Conservation Districts help producers develop and submit the appropriate documentation (e.g., AD-1026, CPA-52) and navigate these processes during the conservation planning process. NACD will work across conservation districts to track applicants and their status with USDA.

NACD recognizes that technical assistance cannot be limited to conservation planning and practice implementation. Producers need a compelling business case to voluntarily implement climatesmart production systems. NACD is pleased to partner with Cornell University to develop a series of educational materials, tools, and templates that can be used with producers to **deliver integrated financial and conservation planning, with the goal of advancing climate-smart operations and supporting producers' financial viability.** Materials will acknowledge and address the array of social, cultural, and other systemic barriers that new or historically underserved producers face. Cornell faculty will provide training to districts, partners, and producer groups who can then work directly with farmers to provide this blended technical assistance. Conservation Districts will integrate business and financial planning into "Climate-Smart Conservation Plans" developed with this funding. At minimum, this will include:

- Use of COMET-Planner and/or other data models (e.g., Truterra Sustainability Tool, SYMFONI) to identify practice options that maximize carbon sequestration;
- Estimated cost of the conservation plan options, including a three to five-year forecast that estimates fixed and variable costs;
- Revenue scenario planning to include forecasted yield, potential market incentives (e.g., stacked benefits within ecosystem service markets), etc.
- o Profit/cost comparisons of new practices vs. status quo operations;
- Identification of incentives, including NACD financial assistance and incentives, USDA programs, private financing options.

Producers may desire to leverage third-party tools, such as the TruterraTM Sustainability Tool, in lieu of COMET-Planner to inform practice options. Districts will work with producers to input data into such tools to inform practice options and decision-making. NACD is also pleased to partner with HabiTerre on a pilot to democratize valuable agricultural data and report historical GHG emissions rates. We believe that if producers have access to valuable, on-farm data, access to technical assistance and financial incentives, and ready access to climate smart markets, it will spur interest and action that advances climate-smart production. Our goal is to supply data on approximately (b)(4); (b)(5)



(i.e., corn, soybeans, wheat, sorghum), grasslands, and rangelands. This pilot is at the national scale, covering the Midwest, High Plains to western coastal regions, the Dakotas, Nebraska, etc.

HabiTerre's technology and quantification solution – SYMFONI – captures the trade-offs and synergistic effects of the system of conservation practices implemented. It does not require producer inputs, thus eliminating barriers to participation. It has been rigorously calibrated and tested (further described in Section III). HabiTerre will develop a farmer-facing dashboard that summarizes producers' historical GHG emissions (e.g., soil organic carbon changes, N2O emissions, and CH4 emissions/uptake) at the field and farm levels. It will also include potential adjustments to management practices that improve their carbon footprint. Reports will be provided to participating producers free of charge.

HabiTerre's reports will provide related technical guidance on how improved management practices can increase GHG benefits and economic returns on their own farmlands. The technical guidance will be focused on conservation tillage, cover crop planting/termination, and smarter nitrogen application such as side-dressing. The report will also include guidance on which cover

crops to plant and (b)(4); (b)(5) (b)(4); (b)(5)

Reports will also estimate the financial impacts of different climate-smart farming practices, which inform producers' decision making. This includes direct impacts (e.g., costs of crop cover seeds, herbicides or equipment for termination, labor changes, impact on revenue flows such as selling carbon credits or receiving financial assistance) and indirect impacts (e.g., impacts on margins such as changes in cash crop yields, reductions of other inputs such as fertilizer).

Conservation districts will also provide the technical assistance needed to support producers' decision-making, practice design and implementation, and evaluation of outcomes. Our partnerships with Indian Nation Conservation Alliance, Rural Coalition, the Rural Advancement Fund of the National Sharecroppers Fund, and Kansas Black Farmers Association, is designed to provide even greater support to historically underserved communities and producers.

Historically underserved and socially disadvantaged producers often have limited access to resources and capital, generally operate on smaller acreages of land (thus limiting earning potential), often have fragile lands, lack the scale to participate in large marketplaces, and may not be eligible for USDA programs. These factors create barriers to adoption and participation in climate-smart markets. As such, Rural Coalition will enhance district capacity via Conservation & Marketing Specialists. Their goal will be to collaborate with districts and historically underserved producers to advance climate-smart practices:

- Augment district capacity to help producers understand the processes, requirements, and timelines for program participation (e.g., HEL/WC compliance, environmental evaluations and EA/EIS if needed).
- Work with producers to understand and remain in compliance with program requirements (e.g., navigate the process for requesting changes to the payment schedule if practices cannot be installed that year due to weather, operational challenges, or other qualifying factors).
- Assist producers with their business and operational planning, particularly as it relates to the cost of transitioning to and maintaining climate-smart operations. Help producers understand their options for financing conservation (e.g., federal, state, local, or private financial incentives and instruments) and facilitate access to markets.
- Work with districts to refine climate-smart conservation plan options. This may include tailoring conservation plans to reflect cultural or traditional practices or identify alternatives that may better suit operations or financial constraints while still achieving climate benefits.
- Train producer groups and producers to use conservation tools such as COMET-Planner, COMET-Farm, etc. to support their day-to-day planning and decision-making.

Financial Assistance Plan. Nearly 50% of NACD's proposed budget is dedicated to financial incentives (largely financial assistance). Contracts may be up to three years in duration. Cost-share will be 75% or 90% for historically underserved producers. Practice payment rates will be based on EQIP and include state-specific, high-priority practices. Enhancements, climate-smart bundles, and supplemental payments will be based on CSP guidelines. Field trials will be funded consistent with NRCS guidelines (e.g., 100%)

NACD will not establish set-asides for livestock or wildlife-based initiatives. Funding will not be used to make existing activity payments or minimum contract payments. However, early adopters will benefit through higher payment rates for new practice implementation. NACD financial assistance cannot be used as cost-share for practices or enhancements funded by Farm Bill or other federal conservation programs. Participating producers will required to certify that there are no duplicate payments. Monitoring and reporting processes are described in Section III. Should there be a violation, producers will be required to return funding.

NACD will approve all financial assistance contracts and centrally administer payments to producers. Financial incentives will be distributed equitably across NACD's seven regions and largely mirror the distribution of TA funding. NACD will develop national guidance and training on its financial assistance eligibility requirements. NACD will request advances from USDA to ensure that prompt payments can be made to producers, particularly those with limited resources who rely on NACD's financial incentives to fund practice implementation.

III. Plan to Measure, Quantify, Monitor, and Report



Approach Quantifying GHG Benefits. Conservation Districts provide assistance to producers with a wide range of operations – row crops, specialty crops, livestock, etc. – and land types, such as farmland, grasslands, rangelands, and forests. The specific strategies and available tools for measuring and quantifying GHG benefits may therefore vary.

Conservation Planners will assess the inventory of available tools and work with producers to identify the measurements that need to be taken based on the selected quantification model. At minimum, data will be input into COMET-Farm. Should producers elect to enroll in a third-party market (e.g., carbon or ecosystem services market), then measurement and quantification will be performed by the entity responsible for verifying and generating credits.

NACD is also leading an innovative pilot with HabiTerre to democratize valuable, on-farm data and provide it directly to participating producers². While USDA, researchers, and carbon market stakeholders have an extensive repository of agricultural data, it can be challenging for producers and grassroots organizations to access and leverage their data to inform their operations and how they can market climate-smart commodities. Additionally, data collection and access to sophisticated quantification models can be a major barrier.

NACD's goal is to quantify GHG emissions for an estimated (b)(4); (b)(5)

(b)(4); (b)(5) provide producers with valuable, on-farm data to inform their decisionmaking and improve access to supply-chain sustainability programs. This is a national pilot that will quantify historical GHG benefits for row crops (i.e., corn, soybeans, wheat, sorghum), grasslands, and rangelands. SYMFONI, HabiTerre's quantification model, achieves an unprecedented level of accuracy at a highly granular level without requiring producers to collect or submit data³. It is an innovative, cost-effective technology that eliminates barriers for participation. We believe that access to data <u>and</u> climate smart markets will spur interest and action that advances climate-smart production.

(b)(4)

² Producers do not have to benefit from the technical assistance or financial incentives delivered through NACD's Climate-Smart Commodities project to participate in the quantification pilot.

³ Farmers may submit their specific data regarding nitrogen and fertilizer application for those fields. Otherwise, county-level averages are utilized in the model.



(b)(4)

accuracy in capturing the whole system carbon flux. SYMFONI provides annual measurements of carbon sequestration rates with significantly higher levels of accuracy than soil sampling alone.

When possible (e.g., corn, soy, sorghum and rice fields), HabiTerre will integrate SYMFONI's quantification results into a feedstock-level carbon footprint calculator (b)(4)

Approach to Monitoring Practice Implementation. NACD estimates it will award over (b)(4) financial assistance contracts that will benefit approximately (b)(4): acres that will be quantified, monitored, and verified. Additionally, our goal is to provide quantification data for over (b)(4); acres of row crops, grasslands, and rangelands through our data democratization pilot with HabiTerre.

Several methods will be employed to monitor practice implementation. Conservation Districts monitor practice implementation as part of the conservation planning process. This includes periodic inspections during implementation (as needed) and final inspections to verify that the practice meets USDA standards/specifications. Conservation Districts that lack employees with JAA may leverage contractors (e.g., TSPs).

Where possible, Conservation Districts may leverage remote sensing technology to monitor practice implementation. If remote sensing technology is used to monitor implementation, producers will only need to self-certify completion using an online API. HabiTerre has licenced or developed many advanced satellite technologies and has access to all needed equipment such as the airborne hyperspectral imaging system. NACD will not need to pay to access this equipment for data collection efforts.

Using their technologies and equipment, HabiTerre can generate highly accurate, daily and 30m cover crop growth, tillage intensity, cash crop nitrogen content, water use (evapotranspiration, ET), photosynthetic carbon uptake (gross primary productivity, GPP) and harvested crop yield for all targeted fields and beyond by integrating field measurements, airborne hyperspectral sensing, and satellite data. HabiTerre also has the following information for (b)(4)

- Management practices, including planting/harvesting time, field boundaries, crop rotation, cover crop growth with estimated termination time, crop residue/tillage practices
- Crop Growth Conditions: crop yields (b)(4)
 (b)(4)
 photosynthesis or gross primary



production (daily, 30 meter, from 2000 to present), and water use (Evapotranspiration; daily, 30 meter data from 2000 to present)

• Environmental Information: weather (hourly weather patterns from multiple sources), soil (gSURRGO, USDA's national soil database)

Throughout this project, HabiTerre will continue to collect ground samples and update their databases with newly collected data. This expansive dataset allows us to quantify additionality and benefits produced by early adopters. It also allows NACD to verify practice data to ensure compliance and accuracy of our reporting.

Approach to Reporting and Tracking GHG Benefits. NACD will partner with HabiTerre to aggregate and report data. Data will be collected on the technical assistance delivered (e.g., conservation plans developed, types/acres of practices designed, implemented, and certified) and the associated GHG benefits.

There may be situations in which NACD funds the TA used to develop conservation plans, but does not provide the associated financial assistance. There may also be instances where the producer opts to enroll in an ecosystem services market that will measure, quantify, report, and verify benefits. Districts will work closely with partners and producers to track these scenarios to ensure that GHG benefits are not double counted or reported.

NACD will report and track the acres, practices, dollars invested, and anticipated GHG by farm and tract #. This will allow us to aggregate data by state, project, commodity produced, and dollar expended. It will also track which program or entity provides financial assistance or generates credits. NACD will partner with HabiTerre to develop a singular reporting interface to track and report these outcomes . HabiTerre will also separate the avoided and sequestrated GHG benefits and quantify their longevity. (b)(4)

(b)(4)

Approach to Verifying GHG Benefits. NACD will verify soil organic carbon (SOC) changes through soil sampling on a representative subset of fields. Soil sampling will be conducted by a combination of conservation districts and contractor support. We estimate conducting (b)(4); tests. All SOC stock measurement will be conducted following harvest. Soil samples will be taken with push probes to 0-30 cm depth at a 10-acre density (i.e., 10 locations for a 100 acre field). To ensure accurate measurement of bulk density, 8x 2 cm diameter push probe cores will be composited within 20m of each sampling location. Sampling locations will be determined by stratified sampling in a Bayesian approach that employs readily available auxiliary data (e.g., Sentinel-2 surface reflectance and topographical data) for a priori maximization of SOC stock representativity at the field scale. SOC concentration will be quantified by dry combustion and normalized by bulk density values to calculate the SOC stock. We also expect that a small fraction of the enrolled fields would have historic soil sampling data. We will prioritize soil sampling over those fields such that we can verify the SOC changes, whether quantified by COMET-Farm or SYMFONI.



HabiTerre will also validate SYMFONI quantification results using data from 12 AmeriFlux sites across the Midwest. These sites cover a gradient of climate and soil conditions, measuring ecosystem CO2, water, and energy fluxes. This will validate the general model performance in simulating crop growth (phenology, leaf area index, biomass and yield), and surface energy, water, and carbon fluxes. Validating gross primary productivity and ecosystem respiration (the largest flows of carbon between land and atmosphere) is especially important, as they are closely related to field-level SOC changes from a mass balance perspective.

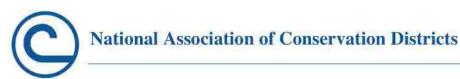
HabiTerre will further validate the performance of simulating carbon footprints and carbon credit using ground truth data on greenhouse gas emissions (CO2, N2O, and CH4) and SOC changes from three Department of Energy SMARTFARM sites. On each 85-acre site, two eddy-covariance towers monitor surface energy, water, CO2 and N2O fluxes. Automatic chambers are used to sample continuous soil CO2 and N2O fluxes at 20 gridded locations of each site. Soil moisture and soil temperature are continuously measured at those 20 locations of each site. Soil nitrate and ammonium contents are sampled with 2 days to 2 weeks time intervals at 60-80 locations and soil nitrification rates are measured using the isotope technique 5 times per year at 60-80 locations of each site. SOC change is measured through soil sampling at these sites. The observations at the SMARTFARM sites are therefore the gold standard dataset for model evaluation. We will also use SOC change measurement from the long-term (>100 years) Morrow plot in Illinois to validate the estimated SOC change and use additional GHG emission observations from the literature to validate the COMET-Farm and SYMFONI quantification results.

NACD will participate in USDA's Partnerships for Climate-Smart Commodities network.

IV. Plan to Support Market Development and Expansion

Partnerships Designed to Market Resulting Climate-Smart Commodities. Reliable access to markets improves producer productivity, increases income, and strengthens food security. With predictable income, producers can make additional investments in their businesses, thus increasing the quantity, quality, and diversity of commodities produced. NACD's goal is to facilitate access to growing climate-smart markets and ensure no producer is left behind. This requires districts to develop partnerships and relationships at all levels (e.g., national, regional, state, local).

Across the country, Conservation District members and partners have relationships with processors, distributors, co-ops, restaurants and food brands that are interested in purchasing climate-smart commodities. As part of NACD's competitive grant program, we will support development of climate-smart market opportunities that benefit local economies. NACD is also investing in capacity for Marketing Specialists through the Rural Coalition. These specialists will collaborate with districts to facilitate historically underserved communities' and producers' access markets. Together, we will identify strategies for bundling acres or products, provide additional education on Scope 3 protocols and traceability, and what is needed to participate in climate-smart commodity markets.



NACD will also cultivate national partnerships that facilitate access to growing climate-smart markets. For example, *Field-to-Market* convenes nearly 150 member organizations across the agriculture value chain. Members represent a diverse group of grower organizations, agribusiness, food, beverage, apparel, restaurant and retail companies, conservation groups, universities, and public sector partners. Examples include Nutrien, Bayer, Unilever, PepsiCo, Walmart, Target, Corteva, BASF, etc. NACD's plan for supporting business and market development efforts is further described in Section VI (Major Milestones).

A dedicated Conservation District Fellow will actively connect Conservation Districts and producers to opportunities within new climate-smart markets. The fellow will track and communicate corporate sustainability goals and programs, identify and scope opportunities to engage conservation districts and producers in climate-smart market initiatives, and assist with communicating and marketing NACD and conservation districts' role in climate-smart markets. Field to Market will also provide information on Scope 3 protocols and innovative financial instruments designed to de-risk the transition to climate-smart production systems.

ESMC works to compensate farmers and ranchers who improve the environment through their agricultural practices. ESMC generates quantified, verified supply chain outcomes and sells climate-smart commodities through its market program. While specific enrollment efforts will not be funded through NACD's grant program, ESMC will support NACD's capacity building efforts by providing training and marketing support to conservation districts and their partners (e.g., historically underserved producer groups). This advances our mutual goal of educating stakeholders on financial incentives for voluntary implementation of climate-smart production systems. ESMC will also provide the necessary education, training, and guidance for districts to identify and bundle acres, ensuring that small and historically underserved producers can access these new and growing opportunities.

NACD also anticipates several sub-award opportunities resulting from USDA's Partnerships for Climate Smart Commodities Program. We will therefore collaborate with members throughout the partnership to understand and track market goals, identify opportunities for additional partnerships, and help Conservation Districts and partners remain at the forefront of helping producers prepare to access climate-smart markets. As described in Section II, NACD will establish a searchable hub for centralized updates. NACD will provide the support needed for conservation districts to participate and connect their communities to climate-smart market opportunities.

<u>Plan to Track Climate-Smart Commodities through the Supply Chain</u>. Neither NACD nor its partners will claim ownership of the climate benefits generated through this specific project. This project focuses on providing producers <u>access</u> to markets; producers receiving NACD-funded TA or financial incentives may therefore choose to enroll in carbon offset or supply chain sustainability programs (e.g., ESMC, Truterra, other third-parties). Should this be the case, producers will work directly with those entities to quantify, verify, generate, and sell such credits or asses.

Because there are no national certifications that set a standard for "climate-smart," the definition varies by entity. NACD will, however, maintain detailed records with farm/tract numbers,



practices implemented, commodities, yields, and quantification outcomes to provide an objective, third-party confirmation/verification should it be required. NACD will also continue to work amongst partners, such as Field-to-Market and other Climate-Smart Commodity Partners to track trends and standards, communicate updates to conservation districts and project partners, and help them keep ahead of emerging requirements or definitions.

Estimated Economic Benefits for Participating Producers Including Market Returns. NACD estimates that the average financial assistance package will be approximately (b)(4); We estimate the value of the technical assistance received is approximately (b)(4); (b)(5) to climate-smart production practices may also make producers eligible for stacked market benefits, such as with ESMC. The value of market returns, which are facilitated by NACD grant recipients, can range between (b)(4); (b)(5) averages), this is an additional for climate-smart commodity sales.

Post-Project Potential. The first Conservation District was established 85 years ago. NACD, Conservation Districts, and their respective associations will continue to advance conservation and climate-smart production systems in their respective communities far beyond the duration of this grant. NACD's proposed investment in capacity, outreach, education, and partnerships ensures that the locally-led conservation delivery system is used effectively. It allows Conservation Districts to stay informed of emerging trends and standards. It facilitates enhancements to our technical assistance and service delivery models, ensuring that producers are prepared to supply growing climate-smart markets. It connects producers to meaningful educational opportunities, valuable data, and facilitates market access. It strengthens MMRV and democratizes data that otherwise remains at federal/academic levels or locked behind proprietary models. These program investments are designed to strengthen grassroots leadership and communities and ensure that rural and historically underserved communities and producers do not get left behind.

V. Subgrant Award Process

NACD will distribute funding for technical assistance and financial incentives across the country, including to tribes and territories, through a competitive subgrant process. This is a highly effective process for two key reasons.

From a practical perspective, this process ensures that climate-smart commodities projects do not receive duplicative USDA funding and that NACD can strategically invest in local capacity where it is needed most. Second, and most importantly, it upholds the locally led conservation process. Locally led conservation is based on the principle that farmers, ranchers, and forest stewards know their lands better than anyone else. As such, they are best positioned to make optimal decisions for their own communities. NACD's work is deeply rooted in notion that locally led, voluntary initiatives yield the most effective and productive conservation outcomes.

While NACD will work to develop the infrastructure and national programming that enables the scaling of climate-smart production systems, there is no "one-size fits all" approach when it comes to implementation of climate-smart solutions at the local level. Each community has different



physiographic characteristics, climate impacts, natural resource concerns, and economic issues that it must tackle. The competitive subgrant process allows conservation districts and their respective state/territory/tribal associations to implement national programming in a way that makes sense for their communities.

Additionally, we know that widespread adoption of climate-smart production systems is a major change for many producers. It is not just a matter of switching out the infrastructure, but includes shifting deeply held perspectives or values. This means that the locally led conservation model plays an even greater role in working with producers to design and implement climate-smart systems based on their unique land and natural resource concerns. NACD has experienced tremendous success using this model and process. The vast network of conservation districts, as well as the role they play within their respective communities, promotes grassroots change that is sustainable and long-lasting.

VI. Major Milestones and Targets

(b)(4); (b)(5)







(b)(4); (b)(5)

Climate-Smart Practices and Limitations

NRCS Practice Code	Practice Name
340	Cover Crop
412	Grassed Waterways
590	Nutrient Management
666	Forest Stand Improvements
528	Prescribed Grazing
345	Residue And Tillage Management, Reduced Till
329	Residue And Tillage Management, No Till
612	Tree/Shrub Establishment
512	Pasture And Hay Planting
328	Conservation Crop Rotation
449	irrigation water management
327	Conservation Cover
595	Integrated Pest Management Plans
382	Fence
412	Grassed Waterway
472	Access Control
632	Waste Separation Facility
386	Field Border

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: NA

ATTACHMENT - DATA DICTIONARY



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

Table 1. Project Summary elements

Partner Activities

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

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

Table 2. Partner Activities elements

Frequency

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

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 guarter 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
Commodity type	Type of commodity
	project
Marketing channel type	Type of marketing c

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

Producer Enrollment

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

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

Table 4. Producer Enrollment elements

Field Enrollment

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

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

Farm Summary

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

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

Table 6. Farm Summary elements

Field Summary

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

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

Table 7. Field Summary elements

GHG Benefits - Alternate Modeled

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

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

Table 8. GHG Benefits - Alternate Modeled elements

GHG Benefits - Measured

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

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

Table 9. GHG Benefits - Measured data elements

Additional Environmental Benefits

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

Table 10. Additional Environmental Benefits elements

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

Supplemental Data Submission

Project MMRV Plan

Definition of MMRV elements:

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

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

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

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

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

- Quantification approach, including:
 - o GHG models used
 - 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	zed by the project. These commodities include those for whom
51 87 A	r other types of marketing support. See full list of commodity options
in Appendix B. List one commodity per row	Ν.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values: FSA commodity list
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Commodity sales	
Data element name: Commodity sales	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
	is part of the quarterly performance report.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
ser "Nazio Ministensi zistano si ne di Priline e 1924 – Indo de Roberto di Angel	Yes
	• No
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Farms enrolled	
Data element name: Farms enrolled	Reporting question: Did the project enroll any producers or fields this quarter?
	olled producers or fields. If enrollment activities occurred this quarter
	Id Enrollment worksheets (Tables 4 and 5) as part of the quarterly
performance report. Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
Weasurement unit. Category	Yes
	• No
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
GHG calculation methods	
Data element name: GHG calculation	Reporting question: What methods is the project using to
methods	calculate GHG benefits?
Description: List the way(s) that GHG ben	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
<u>, , , , , , , , , , , , , , , , , , , </u>	• Both
Logic: None – all respond	Required: Yes
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?
project this quarter.	sed to calculate the total cumulative GHG benefits reported by the
Data type: List	Select multiple values: No
8791 AT 6	
Measurement unit: Category	Allowed values: • Models
	 Direct field measurements
	Both
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Cumulative GHG benefits	
Data element name: Cumulative GHG	Reporting question: What are the project's estimated total GHG
benefits	emission reductions (CO2eq) to date?
Description: Total cumulative estimated gr	reenhouse gas emission reductions from practice implementation.
- ' 사실 중 전 1977 - 2월 42일 전 1979, 1979, 2079, 2077 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 2017 - 201	hanges, 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?
	nange in carbon stock based on practice implementation. This is
	, enter the same numbers as the previous quarter. Conversion rate is
one ton of carbon = 3.67 tons of CO ₂ eq.	Colord working and the Ale
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Cumulative CO2 benefit	• • • • • • • • • • • • • • • • • • •
Data element name: Cumulative CO2	Reporting question: What are the project's estimated total
benefit	cumulative CO2 emission reductions to date? arbon dioxide emission reductions based on practice implementation.
	hanges, 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	Data concettori in equenci i equanceriy
Data element name: Cumulative CH4 bene	efit Reporting question: What are the project's estimated total
	CH4 emission reductions to date?
Description: Estimated total cumulative m	ethane reduction based on practice implementation. This is updated
	ne same numbers as the previous quarter. Conversion rate is one ton
of $CH_4 = 25$ tons of CO_2eq .	
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CH4 reduce CO ₂ eq	
Logic: None – all respond	Required: Yes

Cumulative N20 benefit		
Data element name: Cumulative N2O benefi		
	N2O emission reductions to date?	
	oxide reduction based on practice implementation. This is	
	umbers enter the same number as the previous quarter.	
Conversion rate is one ton of $N_2O = 298$ tons		
Data type: Decimal	Select multiple values: No	
Measurement unit: Metric tons N2O reduce CO ₂ eq		
Logic: None – all respond	Required: Yes	
Data collection level: Project	Data collection frequency: Quarterly	
Offsets produced	75x 1822 (12x 10). (2x 10) (11	
Data element name: Offsets produced	Reporting question: How many carbon offsets have been produced in the project?	
Ph 22	y enrolled project fields during the quarter. Offsets are defined as	
having been verified and certified using an ac Data type: Decimal	ccepted standard and sold into the carbon marketplace. Select multiple values: No	
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000	
Logic: None – all respond	Required: Yes	
Data collection level: Project	Data collection frequency: Quarterly	
Offsets sale		
Data element name: Offsets sale	Reporting question: To what marketplace(s) were carbon offsets sold?	
defined as having been verified and certified List each marketplace name. Separate name		
Data type: Text	Select multiple values: NA	
Measurement unit: Name	Allowed values: Text	
Logic: Respond if >0 to 'Offsets produced'	Required: Yes	
Data collection level: Project	Data collection frequency: Quarterly	
Offsets price		
Data element name: Offsets price	Reporting question: What was the average price of carbon received for offsets?	
Description: Average price per metric ton pa	id for carbon offsets produced by enrolled project fields. Offsets are	
	using an accepted standard and sold into the carbon marketplace.	
Data type: Decimal	Select multiple values: No	
Measurement unit: Dollars per metric ton	Allowed values: 0-500	
Logic: Respond if >0 to 'Offsets produced'	Required: Yes	
Data collection level: Project	Data collection frequency: Quarterly	
Insets produced		
Data element name: Insets produced	Reporting question: How many carbon insets have been produced in the project?	
	enrolled fields during the quarter. Insets are defined as having	
	l standard and accounted for within Scope 3 emissions for a firm.	
Data type: Decimal	Select multiple values: No	
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000	
Logic: None – all respond	Required: Yes	

Cost of on-farm TA	
Data element name: Cost of on-farm TA	Reporting question: What is the total amount that has been spent to provide on-farm TA?
and the state of the second of the second	tice-specific technical assistance provided by the project (by recipiened 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?
Deceription: Total cost of all MMADV activity	as noted for by the project (recipient or partners) MMPV company

Description: Total cost of all MMRV activities paid for by the project (recipient or partners). MMRV components are defined as measurement (calculations or estimations of GHG emissions), monitoring (ongoing review and confirmation that the climate-smart practices have been implemented according to the agreed upon standard and documentation of any changes in the site, implementation, or GHG emissions impacts over time), reporting (documenting and sharing monitoring and measurement results with project partners, the recipient, and any third-party verification organization), and verification (independent confirmation that measurement, monitoring and reporting information are complete, accurate and reliable). This is updated quarterly. If there are no changes, enter the same number as the previous quarter.

GHG monitoring method		
Data collection level: Project	Data collection frequency: Quarterly	
Logic: None – all respond	Required: Yes	
Measurement unit: Dollars	Allowed values: \$0-\$50,000,000	
Data type: Decimal	Select multiple values: No	

Data element name: GHG monitoring 1-5 Reporting question: How did the project monitor GHG benefits?

Description: Up to the five most common forms of monitoring GHG benefits used this quarter as part of MMRV requirements. Monitoring is defined as ongoing review and confirmation that the climate-smart practice has been implemented according to the agreed upon standard and documentation of any changes in the site, implementation, or GHG emissions impacts over time. Include up to 5 methods, based on which methods are most commonly used for this project. The worksheet provides five columns with a drop-down list of the allowed values. Choose one value for each column. If fewer than 5 GHG monitoring methods are used, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other GHG monitoring methods as free text.

Data type: List Select multiple values: No Allowed values: Measurement unit: Category Drones . Ground-level photos and videos . **On-farm visit** Plot-based sampling Producer records or attestation Satellite monitoring or remote sensing Soil metagenomics Soil sensors Water sensors Other (specify) Logic: None - all respond Required: Yes Data collection level: Project Data collection frequency: Quarterly

GHG reporting method

Data element name: GHG reporting 1-5

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

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

Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Automated devices
	Email
	Mobile app
	Paper
	Third-party actors
	Website
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
GHG verification method	
Data alament names CUC varification	Departing exertions, Upper did the project configuration potentian

Data element name: GHG verification method 1-5

Reporting question: How did the project verify implementation of practices to reduce GHG emissions?

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

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

Partner Activities

Unique IDs

Partner ID

Unique Project ID for each partner

Partner name	
Data element name: Name of partner organization	Reporting question: What is the official name of the recipient or partner organization?
Description: Legal name of recipient or partner organized	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
54 10 1031 1251 da	University
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Partnership initiation
Partner POC	
Data element name: Partner POC	Reporting question: Who is the point of contact for this project at the recipient or partner organization?
Description: Name of a point of contact for the recipie	
Data type: Text	Select multiple values: NA
Measurement unit: NA	Allowed values: Text
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Partnership initiation; update as necessary
Partner POC email	219 0201 022 2010 0055 100 92000 026 NA 400
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	
Data type: Text	Select multiple values: NA
Measurement unit: NA	Allowed values: Text
	357: 1124 62 (63)
Logic: None – all respond	Required: Yes

Data element name: Partnership start date	Reporting question: When did the partnership start?
Description: Date that the partner organization and	d the recipient began formally partnering on the project
Data type: Date	Select multiple values: NA
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023 – 12/31/2030
Logic: No response for recipient	Required: Yes
Data collection level: Partner	Data collection frequency: Partnership initiation
Partnership end date	
Data element name: Partnership end date	Reporting question: When did the partnership end?
Description: Date that the partner organization and	d the recipient stopped formally partnering on the project
Data type: Date	Select multiple values: NA
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023 - 12/31/2030
Logic: No response for recipient	Required: Yes
Data collection level: Partner	Data collection frequency: Partnership end quarter
New partnership	
Data element name: New partnership	Reporting question: Is this a new partnership?
working relationship (under contract or on a grant)	ipient and the partner organization have not had a formal prior to the start of the project.
Data type: List	Select multiple values: No
Data type: List Measurement unit: Category	Select multiple values: No Allowed values:
	102.5
0.7	Allowed values: • Yes • No
Measurement unit: Category	Allowed values: • Yes • No • I don't know
Measurement unit: Category Logic: No response for recipient	Allowed values: • Yes • No • I don't know Required: Yes
Measurement unit: Category Logic: No response for recipient Data collection level: Partner	Allowed values: • Yes • No • I don't know
Measurement unit: Category Logic: No response for recipient Data collection level: Partner Partner total requested	 Allowed values: Yes No I don't know Required: Yes Data collection frequency: Partnership initiation
Measurement unit: Category Logic: No response for recipient	Allowed values: • Yes • No • I don't know Required: Yes
Measurement unit: Category Logic: No response for recipient Data collection level: Partner Partner total requested Data element name: Partner total requested Description: Cumulative (total) amount of funds tha recipient from the start of the partnership to the er value must be the sum of all previous entries plus th there are no changes, report the value from the pre-	Allowed values: Yes No I don't know Required: Yes Data collection frequency: Partnership initiation Reporting question: What is the total amount of funding the partner has requested to date from this project? at the partner has requested reimbursement for from the he amount of funds requested in the reporting quarter. If evious quarter.
Measurement unit: Category Logic: No response for recipient Data collection level: Partner Partner total requested Data element name: Partner total requested Description: Cumulative (total) amount of funds that recipient from the start of the partnership to the er value must be the sum of all previous entries plus to there are no changes, report the value from the previous Data type: Decimal	Allowed values: Yes No I don't know Required: Yes Data collection frequency: Partnership initiation Reporting question: What is the total amount of funding the partner has requested to date from this project? at the partner has requested reimbursement for from the he amount of funds requested in the reporting quarter. If evious quarter. Select multiple values: NA
Measurement unit: Category Logic: No response for recipient Data collection level: Partner Partner total requested Data element name: Partner total requested Description: Cumulative (total) amount of funds tha recipient from the start of the partnership to the er value must be the sum of all previous entries plus th there are no changes, report the value from the pre-	Allowed values: Yes No I don't know Required: Yes Data collection frequency: Partnership initiation Reporting question: What is the total amount of funding the partner has requested to date from this project? at the partner has requested reimbursement for from the he amount of funds requested in the reporting quarter. If evious quarter.



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	in-kind contributions (e.g., staff time, inputs, equipment
- Press and Performent and Mark Stores and a marked full of Section 2. S	ided as a project match contribution from the start of the
	each quarter's data entry, the value must be the sum of all
	orting quarter. If there are no changes, report the value
from the previous quarter.	
Data type: Decimal	Select multiple values: NA
Measurement unit: Dollars	Allowed values: \$0-\$100,000,000
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Quarterly
Total match incentives	
Data element name: Total match incentives	Reporting question: What is the total value of match provided by this organization for producer incentives
provided as a project match contribution from the st	centive payments directly to producers that the partner has tart of the partnership to the end of the reporting quarter. sum of all previous entries plus match incentives in the e value from the previous quarter.
Data type: Decimal	Select multiple values: NA
Measurement unit: Dollars	Allowed values: \$0-\$100,000,000
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Quarterly
Match type	
Data element name: Match type 1-3	Reporting question: What types of match contributions has the organization provided to the
Description: Trace of motols and should be the	project?
Description: Types of match contributions other that	end of the reporting guarter. Enter up to the top three (in
·	In-kind staff time could be used for technical assistance,
 State of the state of the state	. Production inputs include seed, fertilizer, pesticides,
	worksheet provides three columns with a drop-down list of
	nn. If fewer than 3 match types are used, leave unnecessary
21	al column to enter other match types as free text.

Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	 Equipment rental or use
	 In-kind staff time
	 Production inputs (reduced cost or free)
	Program income
	Software
	 Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Quarterly

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

Match amount	
Data element name: Match amount 1-3	Reporting question: What is the value of the match contributions the organization provided to the project?
project match contribution from the start of the part for up to the top three (in dollar value) match types.	ach match type that the organization has provided as a tnership to the end of the reporting quarter. Enter amounts . The worksheet provides three columns for this data than 3 match types are used, leave unnecessary columns
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	Reporting question: What types of training has the organization provided to project partners? ct partner as a result of participating in the project during
of their own organization, or an outside organization training provided. The worksheet provides three col- one value for each column. If fewer than 3 training t is chosen, use the additional column to enter other t	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values: • Data collection
	Grant reporting
	Marketing opportunities
	 Providing financial assistance
	 Providing technical assistance
	Writing producer contracts
Logic: None – all respond	Other (specify)
	Roquirod, Voc
Data collection level: Partner	Required: Yes Data collection frequency: Quarterly
Data collection level: Partner	
Data collection level: Partner Activity by partner Data element name: Activity 1-3 by partner	Data collection frequency: Quarterly Reporting question: What types of activities has the organization provided to the project?
Data collection level: Partner Activity by partner Data element name: Activity 1-3 by partner Description: Types of activities that the recipient or quarter. Enter up to the top three (in dollar value) ty columns with a drop-down list of the allowed values	Data collection frequency: Quarterly Reporting question: What types of activities has the
Data collection level: Partner Activity by partner Data element name: Activity 1-3 by partner Description: Types of activities that the recipient or quarter. Enter up to the top three (in dollar value) ty columns with a drop-down list of the allowed values types are used, leave unnecessary columns blank. If	Data collection frequency: Quarterly Reporting question: What types of activities has the organization provided to the project? partner organization has provided during the reporting ypes of activities undertaken. The worksheet provides three Choose one value for each column. If fewer than 3 activity
Data collection level: Partner Activity by partner Data element name: Activity 1-3 by partner Description: Types of activities that the recipient or quarter. Enter up to the top three (in dollar value) ty columns with a drop-down list of the allowed values types are used, leave unnecessary columns blank. If activity types as free text.	Data collection frequency: Quarterly Reporting question: What types of activities has the organization provided to the project? partner organization has provided during the reporting ypes of activities undertaken. The worksheet provides three . Choose one value for each column. If fewer than 3 activity "other" is chosen, use the additional column to enter other
Data collection level: Partner Activity by partner Data element name: Activity 1-3 by partner Description: Types of activities that the recipient or quarter. Enter up to the top three (in dollar value) ty columns with a drop-down list of the allowed values types are used, leave unnecessary columns blank. If activity types as free text. Data type: List	Data collection frequency: Quarterly Reporting question: What types of activities has the organization provided to the project? partner organization has provided during the reporting ypes of activities undertaken. The worksheet provides three by Choose one value for each column. If fewer than 3 activity "other" is chosen, use the additional column to enter other Select multiple values: No Allowed values: • Marketing support
Data collection level: Partner Activity by partner Data element name: Activity 1-3 by partner Description: Types of activities that the recipient or quarter. Enter up to the top three (in dollar value) ty columns with a drop-down list of the allowed values types are used, leave unnecessary columns blank. If activity types as free text. Data type: List	Data collection frequency: Quarterly Reporting question: What types of activities has the organization provided to the project? partner organization has provided during the reporting ypes of activities undertaken. The worksheet provides three . Choose one value for each column. If fewer than 3 activity "other" is chosen, use the additional column to enter other Select multiple values: No Allowed values: • Marketing support • MMRV support
Data collection level: Partner Activity by partner Data element name: Activity 1-3 by partner Description: Types of activities that the recipient or quarter. Enter up to the top three (in dollar value) ty columns with a drop-down list of the allowed values types are used, leave unnecessary columns blank. If activity types as free text. Data type: List	Data collection frequency: Quarterly Reporting question: What types of activities has the organization provided to the project? partner organization has provided during the reporting ypes of activities undertaken. The worksheet provides three choose one value for each column. If fewer than 3 activity "other" is chosen, use the additional column to enter other Select multiple values: No Allowed values: Marketing support MMRV support Producer outreach for enrollment
Data collection level: Partner Activity by partner Data element name: Activity 1-3 by partner Description: Types of activities that the recipient or quarter. Enter up to the top three (in dollar value) ty columns with a drop-down list of the allowed values types are used, leave unnecessary columns blank. If activity types as free text. Data type: List	Data collection frequency: Quarterly Reporting question: What types of activities has the organization provided to the project? partner organization has provided during the reporting ypes of activities undertaken. The worksheet provides three choose one value for each column. If fewer than 3 activity "other" is chosen, use the additional column to enter other Select multiple values: No Allowed values: Marketing support MRRV support Producer outreach for enrollment Technical assistance to producers
Data collection level: Partner Activity by partner Data element name: Activity 1-3 by partner Description: Types of activities that the recipient or quarter. Enter up to the top three (in dollar value) ty columns with a drop-down list of the allowed values types are used, leave unnecessary columns blank. If activity types as free text. Data type: List	Data collection frequency: Quarterly Reporting question: What types of activities has the organization provided to the project? partner organization has provided during the reporting ypes of activities undertaken. The worksheet provides three to choose one value for each column. If fewer than 3 activity "other" is chosen, use the additional column to enter other Select multiple values: No Allowed values: Marketing support MMRV support Producer outreach for enrollment Technical assistance to producers Training to other partner organizations
Data collection level: Partner Activity by partner Data element name: Activity 1-3 by partner Description: Types of activities that the recipient or quarter. Enter up to the top three (in dollar value) ty columns with a drop-down list of the allowed values types are used, leave unnecessary columns blank. If activity types as free text. Data type: List	Data collection frequency: Quarterly Reporting question: What types of activities has the organization provided to the project? partner organization has provided during the reporting ypes of activities undertaken. The worksheet provides three choose one value for each column. If fewer than 3 activity "other" is chosen, use the additional column to enter other Select multiple values: No Allowed values: Marketing support MRRV support Producer outreach for enrollment Technical assistance to producers

USDA Partnerships for Climate-Smart Commodities Data Dictionary for Recipier	nts
February 2023	

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 the start of the partnership to the end of the reporting of	그는 사람이 집중에는 것이다. 특히 사람이 있는 것이다. 사람이 많은 것이다. 이번 것이다. 사람이 가지 않는 것이다. 이번 것은 사가 가지 않는 것이다. 가지 않는 것이다. 이 나람 전자가 가지 않는 것이다.
value) activity types. The worksheet provides three colu	mns for this data element. Enter one value for each
column. If fewer than 3 activity types are provided, leave	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	blumn blank.
Data type: Text	Select multiple values: NA
Measurement unit: Name	Allowed values: Text
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Quarterly
Product source	
Data element name: Product source	Reporting question: Which companies provided the supplies?
Description: Name of firm or company from which supp	blies were obtained.
Data type: Text	Select multiple values: NA
Measurement unit: Name	Allowed values: Text
Logic: Respond if text entered for 'Products supplied'	Required: Yes
Data collection level: Partner	Data collection frequency: Quarterly



Marketing Activities

Commodity type	
Data element name: Commodity type	Reporting question: What type of commodity is produced by the farmers enrolled in this project?
	uced or marketed through incentives from this project. If multiple 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
Data type: List Measurement unit: Category	Select multiple values: No Allowed values: Agricultural marketing board Biorefinery Commodity broker Direct to consumer Direct to institution Direct to restaurant Distributor (including grain elevators) Food hub or cooperative Food processor Non-food byproducts processor Retailer USDA
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Number of buyers	
Data element name: Number of buyers	Reporting question: How many buyers are there in this marketing channel?
Description: List the number of individual	firms or buyers in this marketing channel.
Data type: Integer	Select multiple values: No
Measurement unit: Count	Allowed values: 1-500
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly

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 buyer	s in this marketing channel. Separate each name with a comma.
Data type: Text	Select multiple values: NA
Measurement unit: Name	Allowed values: Text
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Marketing channel geography	
Data element name: Marketing channel	Reporting question: What is the primary geography of the
geography	marketing channel?
	type of marketing channel. Primary geography means the scale at
	ling happens. Local means within a single state or directly
	a five-to-ten state area. National means across the United States.
	de of the United States. Global means across the world or not to a
specific international location.	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Local
	Regional
	National
I	Global
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Value sold	• • • • • • • • • • • • • • • • • • •
Data element name: Value sold	Reporting question: What is the value of the commodity sold in
Description: The dollar value of the commo	this marketing channel? dity sold in this marketing channel this quarter (non-cumulative).
Data type: Decimal	Select multiple values: No
Measurement unit: Dollars	Allowed values: \$1-\$100,000,000
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Volume sold	
Data element name: Volume sold	Reporting question: What is the volume of the commodity solo
	in this marketing channel?
Description: The volume of the commodity	sold in this marketing channel this quarter (non-cumulative).
Data type: Decimal	Select multiple values: No
Measurement unit: Number	Allowed values: 1-100,000,000
Logic: None – all respond	Required: Yes

Volume sold unit	
Data element name: Volume sold unit	Reporting question: What is the unit of volume?
Description: The unit associated with the vectors of the additional column to enter Data type: List	olume of the commodity sold in the marketing channel. If "other" is the appropriate unit as free text. Select multiple values: No
Measurement unit: Category	Allowed values:
weasurement unit: Category	Bales (500 pounds)
	Bushels
	Carcass pounds
	Gallons
	Kilograms
	Linear board feet
	Liveweight pounds
	Metric tons
	Pounds
	Short tons
12 65 1284 1026 M	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Price premium	
Data element name: Price premium	Reporting question: What price premium is received for the commodity sold in this marketing channel?
가슴에 가 가지 않는 것 같은 것 같	or the commodity sold in this marketing channel this quarter. Price
premium is the amount received above a 'b Data type: Decimal	Select multiple values: No
2524CA DFU 1524 7705	
Measurement unit: Dollars	Allowed values: \$0.01-\$10,000
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Price premium unit	
Data element name: Price premium unit	Reporting question: What is the unit for the price premium?
Standard and the second standard standard standard standard standard standard standard standard standard standa	rice premium for the commodity sold in the marketing channel. If n to enter the appropriate unit as free text.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
Weasurement unit. Category	Per bale (500 pounds)
	 Per bushel
	Per carcass pound
	Per gallon
	Per kilogram
	Per linear board foot
	Per live pound
	Per metric ton
	Per ounce
	Per short ton
	Other (specify)
	Boguirod: Voc
Logic: None – all respond Data collection level: Project	Required: Yes Data collection frequency: Quarterly

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

Data element name: Product differentiation method 1-3

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

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

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

Data element name: Marketing method 1-3 Report

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

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

Description: Provide the marketing channel identification method(s) used for this commodity in this market channel. Market channel identification methods are the ways that producers and project partners generate interest in purchasing the climate-smart commodity. Include up to 3 methods, based on which methods are most commonly used for this project. The worksheet provides three columns with a drop-down list of the allowed values. Choose one value for each column. If fewer than 3 marketing channel identification methods are used, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other marketing channel identification methods as free text

Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	 Educational tours for buyers
	In-person lead generation
	 Negotiated contracts with buyers
	 Partnership network or project partner
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Fraceability method	
Data element name: Traceability method	Reporting question: What traceability methods are used for

1-3 climate-smart commodities in this channel?

Description: Provide the traceability method(s) used for the climate-smart commodity in this market channel. Traceability methods are ways to trace the climate-smart commodity or the climate-smart claims through the supply chain. Include up to 3 methods, based on which methods are most commonly used for this project. The worksheet provides three columns with a drop-down list of the allowed values. Choose one value for each column. If fewer than 3 traceability methods are used, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other traceability methods as free text. Data type: List Select multiple values: No

Measurement unit: Category

Logic: None - all respond

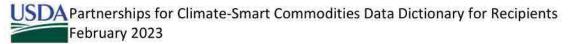
Allowed values:

- Barcode or unique ID
- Blockchain
- Book and claim
- Chain of custody
- Mass balance
- Recordkeeping
- Registry with certification
- Segregation
- Supply shed
- Volume proxy
- Other (specify)
- Required: Yes

그는 것 같은 것은 것 같은 것 같이 같이 같이 같이 같이 같이 같이 않는 것 같이 많이	
Data collection level: Project	Data collection frequency: Quarterly
지역할 수 없는 것을 수 있는 것을 다 있는 것을 하는 것을 하는 것을 수 있다. 것은 것을 가지 않는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있다. 것을 것을 것 같이 것 같이 없는 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 것을 것 같이 것 같이 없는 것을 것 같이 않는 것 같이 없다. 것 같이 것 같이 것 같이 없는 것 같이 없다. 것 같이 것 같이 것 같이 없는 것 같이 없는 것 같이 없다. 것 같이 것 같이 것 같이 없는 것 같이 없다. 것 같이 없는 것 같이 없는 것 같이 없다. 것 같이 없는 것 같이 없는 것 같이 없다. 것 같이 것 같이 없는 것 같이 없다. 것 같이 없는 것 같이 없는 것 같이 없다. 것 같이 없는 것 같이 없다. 것 같이 않는 것 같이 없다. 것 같이 않는 것 같이 없다. 것 같이 않는 것 같이 없다. 것 같이 않는 것 같이 않는 것 같이 없다. 것 같이 않는 것 같이 않는 것 같이 않는 것 같이 않는 것 않는 것 같이 없다. 것 같이 것 같이 않는 것 않는 것 같이 않는 것 않는 것 않는 것 않는 것 같이 않는 것 않는 것 않는 것 않는 것 같이 않는 것 같이 않는 것 같이 않는 것 않는	동네는 동안은 방법 것은 것은 것은 것은 것은 것을 다시 같은 것은 것은 것을 다시 가지 않는 것을 것 같아요. 가지 않는 것은 것은 것은 것을 가지 않는 것을 가지 않는 것을 다.

Producer Enrollment

Farm ID	Unique Farm	Unique Farm ID assigned by FSA	
State or territory	State name	State name (must match FSA farm enrollment data)	
County of residence	County name	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 th the project and is re-enrolling.	지난 영국 이상에 있는 것이 많은 것이 집에 많은 것이 많은 것이 없다.	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: Produce	r	Data collection frequency: Re-enrollment	
Producer start date			
Data element name: Producer start date		Reporting question: When did the producer enroll in the project?	
Description: Date that the pro-	oducer enrolled in the	e project by signing their first contract.	
Data type: Date		Select multiple values: NA	
Measurement unit: MM/DD/	YYYY	Allowed values: 01/01/2023 – 12/31/2030	
Logic: None - all respond		Required: Yes	
Data collection level: Producer		Data collection frequency: Initial enrollment	
Producer name			
Data element name: Produce		Reporting question: What is the name of producer enrolled in the project?	
		project; the name must match the name contained in the perating Plan in FSA Business File for that Farm ID.	
Data type: Text		Select multiple values: NA	
Measurement unit: NA		Allowed values: Text	
Logic: None – all respond		Required: Yes	
Data collection level: Producer		Data collection frequency: Initial enrollment	



Jnderserved status		
Data element name: Underserved s	tatus Reporting question: Is this producer considered an underserved and/or a small producer?	
Description: Underserved status of t	the primary operator of the enrolled operation. Underserved producers	
	disadvantaged farmers, veteran farmers, and limited resource	
E commence and a second s	cers growing specialty crops are generally also included in these categories.	
	less than \$350,000 in annual gross cash farm income. Indicate whether this	
producer is considered underserved	, a small producer, or both underserved and a small producer. Use "I don't	
~ 그 레이블 M M M M M M M M M M M M M M M M M M M	swer. Departmental Regulation 4370-001 provides USDA's policies for	
and A Marcanese a surger of a surger of the second first second of the second of the second of the AV	ng race, ethnicity and gender. Providing demographic information is	
-	e customer. Demographic information is used by USDA for statistical	
5 D D	o determine an applicant's eligibility for programs or services for which they	
apply. Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
5.	Yes, underserved	
	Yes, small producer	
	 Yes, underserved and small producer 	
	• No	
e e 111 - 112 - 1	I don't know	
Logic: None – all respond	Required: No	
Data collection level: Producer	Data collection frequency: Initial enrollment	
otal area		
Data element name: Total area	Reporting question: What is the total area of the farm?	
	issociated with the Farm ID. Report total area of the farm, even if only a	
(2) Some efficient of the second s Second second s Second second se	project. If a producer is enrolled in the project for multiple years, review	
	ract is signed and provide any necessary updates.	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	 Less than 1 acre 1 to 9 acres 	
	 10 to 49 acres 	
	 50 to 69 acres 	
	• 70 to 99 acres	
	 100 to 139 acres 	
	 140 to 179 acres 	
	 180 to 219 acres 	
	 220 to 259 acres 	
	 260 to 499 acres 	
	500 to 999 acres	
	 1,000 to 1,999 acres 2,000 to 4,000 acres 	
	 2,000 to 4,999 acres 5,000 or more acres 	
	5,000 or more acres Required: Ves	
Logic: None – all respond	Required: Yes	
Logic: None – all respond Data collection level: Producer	Required: Yes Data collection frequency: Initial enrollment and subsequent	

Total crop area	
Data element name: Total crop area	Reporting question: What percent of the current operation is cropland?
- No. 2012년 2월 20일 전에 12월 20일 전에 대해 12월 20일 전에 가지 않는 것이다. 12월 2월 20일 전에 전에 12월 20일 전에 12월 20일 전에 12월 20일 전에 12월	is currently used as cropland. If a producer is enrolled in the project for a each time a new contract is signed and provide any necessary
Data type: Integer	Select multiple values: No
Measurement unit: Acres	Allowed values: 0-100,000
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment and subsequent enrollment(s), if applicable
fotal livestock area	
Data element name: Total livestock area	Reporting question: What amount of the current operation is used for livestock (by area)?
feeding or milking. If a producer is enro	is currently used for pasture, grazing, rangeland; or animal housing, led in the project for multiple years, review the total livestock area each
time a new contract is signed and provid	
Data type: Integer	Select multiple values: No
Measurement unit: Acres	Allowed values: 0-100,000
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment and subsequent enrollment(s), if applicable
Fotal forest area	
Data element name: Total forest area	Reporting question: What amount of the current operation is forested (by area)?
least 10% of the land area is covered in	is currently considered forest land use. Forest land use means that at trees that will be at least 13 feet tall when mature. If a producer is s, review the total forest area each time a new contract is signed and
Data type: Integer	Select multiple values: No
Measurement unit: Acres	Allowed values: 0-100,000
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment and subsequent enrollment(s), if applicable

ivestock type Data element name: Livestock type 1-3	Reporting question: What types of livestock are
Data element name: Livestock type 1-5	raised on the farm?
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 provi	y head count) on the farm. The worksheet provides three ues. Choose one value for each column. If there are fewer than nk. If "other" is chosen, use the additional column to enter enrolled in the project for multiple years, review the livestock ide any necessary updates.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Alpacas
	Beef cows
	Beefalo
	Buffalo or
	bison
	Chickens
	(broilers)
	Chickens
	(layers)
	Dairy cows
	Deer
	 Ducks Elk
	Emus Equine
	Geese
	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
er er ning pr	subsequent enrollment(s), if applicable
ivestock head	Barrows Conservation France (Francescon Observation (Francescon Observation)
Data element name: Livestock head 1-3	Reporting question: How many livestock (by type) ar on this operation?

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

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

Organic fa	arm
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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.

necessary updates.	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	• Yes
	• No
	I don't know
Logic: None – all respond	Required: No
Data collection level: Producer	Data collection frequency: Initial enrollment and
	subsequent enrollment(s), if applicable
Organic fields	
Data element name: Organic fields	Reporting question: Are any of the fields enrolled in the project currently USDA-certified organic or transitioning to USDA-certified organic?
certifying agent or is transitioning to USDA-c means that some or all of the fields enrolled organic. No means that no part of the fields certified organic. If a producer is enrolled in	hat the operation has been certified by an accredited organic ertified organic by not using any of the prohibited substances. Yes in the project are certified organic or transitioning to certified enrolled in the project are certified organic or transitioning to the project for multiple years, review the organic certification status act is signed and provide any necessary updates. Select multiple values: No
Measurement unit: Category	Allowed values:
incustrement until category	Yes
	• No
	I don't know
Logic: Respond if yes to 'Organic operation'	Required: No
Data collection level: Producer	Data collection frequency: Initial enrollment and subsequent enrollment(s), if applicable
Producer motivation	
Data element name: Producer motivation	Reporting question: Which of the following was the primary reason the producer enrolled in this project?
Description: Drimary operator's motivation f	
Description: Primary operator's motivation f	or enrolling in the project.
Data type: List	or enrolling in the project. Select multiple values: No
1175 Zi Ci	or enrolling in the project.
Data type: List	for enrolling in the project. Select multiple values: No Allowed values: • Financial benefit • Environmental benefit • New market opportunity • Partnerships or networks

Producer outreach	
Data element name: Producer outreach 1- 3	Reporting question: What types of outreach were provided to producers?
activities are those focused on identifying a recipient or project partners. The workshee values. Choose one value for each column. blank. If "other" is chosen, use the addition	es of outreach provided to producer prior to enrollment. Outreach nd enrolling producers in the project. Outreach can come from the et provides three columns with a drop-down list of the allowed If there are fewer than 3 outreach types, leave unnecessary column al column to enter other outreach types as free text.
Data type: List	Select multiple values: Yes
Measurement unit: Category	 Allowed values: Commodity organizations Conferences Cooperative extension Digital communications and resources Education workshops, field days, and town halls Existing partner networks Farm visits and one-on-one meetings General advertising Peer referrals and producer groups Phone calls Print communications and resources Retailers State agencies Targeted messaging using proprietary data Technical service providers
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment
SAF experience	
Data element name: CSAF experience	Reporting question: Has the primary operator implemented CSAF practices in the last ten years anywhere on the farm?
수가 이상에 이 방법에 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있었다. 그는 것이 되어 있었다. 그는 것이 가지 않는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것	mate-smart agriculture or forestry (CSAF) practices anywhere on the nt primary operator took control (whichever time period is shorter) ndix A. Select multiple values: No
Measurement unit: Category	Allowed values: • Yes • No • I don't know Required: Yes
Logic: None – all respond	Required: res

Data collection frequency: Initial enrollment

Data collection level: Producer

USDA Partnerships for Cli	mate-Smart Commodities Data Dictionary for Recipients
February 2023	

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

SAF market incentives	
Data element name: CSAF market incentives	Reporting question: Were CSAF practices supported by market incentives?
Black and March and March 1995. A substant and a configurated March 2010 March 2010 March 2010.	perator) has implemented CSAF practices in the last ten years, was es? Market incentives include premiums paid by a commodity labeling as a climate-smart commodity.
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

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

USDA Partnerships for Climate-Smart Commodities Data Dictionary for Recipients	
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Data element name: Commodity category	Reporting question: What category of
but clement name. commonly category	commodity(ies) is (are) produced from this field
Description: Category of commodity(ies) produced in fie	이 이 것은 것은 것이 있는 것이 있다. 이 것이 있는 것이 있 같이 것이 것이 같이 있는 것이 있다. 것이 있는 것이 있 같이 있다. 것이 있는 것이 있는 것이 있는 것이 있는 것이 있 것이 있는 것이 있다. 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있는 것이 있다. 것이 있는 것이 없다. 것이 있는 것이 없는 것이 없다. 것이 있는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 있 것이 것이 것이 것이 있는 것이 없는 것이 없다. 것이 없 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없는 것이 없는 것이 없다. 것이 없 것이 없는 것이 것이 없는 것이 없는 것이 없는 것이 없는 것이 없는 것이 없다. 것이 없 것이 없 것이 없는 것이 없 것이 없다. 것이 없 것이 없 것이 없 같이 않이 없다. 것이 없 것이 없 것이 없 않은 것이 없 것이 없 않이 않이 없다. 것이 없 것이 없 것이 없 것이 없 않이 않이 없 것이 없 것이 않 않이 않이 않이 않이 않 않이 않
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Crops
	Livestock
	Trees
	Crops and livestock
	Crops and trees
	 Livestock and trees
a a 192 an a	 Crops, livestock and trees
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
commodity type	
Data element name: Commodity type	Reporting question: What type of commodity i produced from this field?
Description: Type of commodity produced in field enroll worksheet provides a drop-down list of the allowed valu commodities in subsequent rows.	
Data type: List	Select multiple values: No
and a second sec	
Measurement unit: Category	Allowed values: FSA commodity list
Measurement unit: Category	Allowed values: FSA commodity list Required: Yes
Measurement unit: Category Logic: None – all respond	the constant St
Measurement unit: Category Logic: None – all respond Data collection level: Field	Required: Yes
Measurement unit: Category Logic: None – all respond Data collection level: Field	Required: Yes
Measurement unit: Category Logic: None – all respond Data collection level: Field Baseline yield	Required: Yes Data collection frequency: Initial enrollment Reporting question: What is the baseline yield of this field?
Measurement unit: Category Logic: None – all respond Data collection level: Field Baseline yield Data element name: Baseline yield Description: Average annual yield of commodity in 3 yea field if possible. If not at field level, provide average ann	Required: Yes Data collection frequency: Initial enrollment Reporting question: What is the baseline yield of this field? ars prior to enrollment. Provide yield for the enrolled mual yield for the specific commodity for the operation.
Measurement unit: Category Logic: None – all respond Data collection level: Field Baseline yield Data element name: Baseline yield Description: Average annual yield of commodity in 3 yea	Required: Yes Data collection frequency: Initial enrollment Reporting question: What is the baseline yield of this field? ars prior to enrollment. Provide yield for the enrolled
Measurement unit: Category Logic: None – all respond Data collection level: Field Baseline yield Data element name: Baseline yield Description: Average annual yield of commodity in 3 yea field if possible. If not at field level, provide average ann	Required: Yes Data collection frequency: Initial enrollment Reporting question: What is the baseline yield of this field? ars prior to enrollment. Provide yield for the enrolled mual yield for the specific commodity for the operation.
Measurement unit: Category Logic: None – all respond Data collection level: Field aseline yield Data element name: Baseline yield Description: Average annual yield of commodity in 3 yea field if possible. If not at field level, provide average ann Data type: Decimal	Required: Yes Data collection frequency: Initial enrollment Reporting question: What is the baseline yield of this field? ars prior to enrollment. Provide yield for the enrolled mual yield for the specific commodity for the operation. Select multiple values: No



Data element name: Baseline yield un	it Reporting question: Baseline yield unit
	eld of commodity in enrolled field in 3 years prior to enrollment. The of choices for this data element. If "other" is chosen, use the additional unit as free text.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Animal units per acre
	Bushels per acre
	Carcass pounds per animal
	Head per acre
	Hundred-weights (or pounds) per head
	Linear feet per acre
	 Liveweight pounds per animal
	 Pounds per acre
	Tons per acre
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
aseline yield location	
Description: Location of the reported a	baseline yield being reported? average annual yield of commodity in 3 years prior to enrollment. If
Description: Location of the reported a "other" is chosen, use the additional co Data type: List	baseline yield being reported? average annual yield of commodity in 3 years prior to enrollment. If olumn to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field
Description: Location of the reported a "other" is chosen, use the additional co Data type: List	baseline yield being reported? average annual yield of commodity in 3 years prior to enrollment. If olumn to enter the appropriate location as free text. Select multiple values : No Allowed values: • Enrolled field • Whole operation
Description: Location of the reported a "other" is chosen, use the additional o Data type: List Measurement unit: Category	baseline yield being reported? average annual yield of commodity in 3 years prior to enrollment. If olumn to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field
Description: Location of the reported a "other" is chosen, use the additional co Data type: List Measurement unit: Category Logic: None – all respond	baseline yield being reported? average annual yield of commodity in 3 years prior to enrollment. If olumn to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field • Whole operation • Other (specify) Required: Yes
Description: Location of the reported a "other" is chosen, use the additional of Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field	baseline yield being reported? average annual yield of commodity in 3 years prior to enrollment. If olumn to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field • Whole operation • Other (specify)
Description: Location of the reported a "other" is chosen, use the additional co Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field eld land use	baseline yield being reported? average annual yield of commodity in 3 years prior to enrollment. If olumn to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field • Whole operation • Other (specify) Required: Yes
Description: Location of the reported a "other" is chosen, use the additional co Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field eld land use Data element name: Field land use	baseline yield being reported? average annual yield of commodity in 3 years prior to enrollment. If olumn to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field • Whole operation • Other (specify) Required: Yes Data collection frequency: Initial enrollment Reporting question: What is this field's land use history?
Description: Location of the reported a "other" is chosen, use the additional of Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field eld land use Data element name: Field land use Description: Prior to enrollment, what	baseline yield being reported? average annual yield of commodity in 3 years prior to enrollment. If olumn to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field • Whole operation • Other (specify) Required: Yes Data collection frequency: Initial enrollment Reporting question: What is this field's land use history? t was the most common land use for this field in the past 3 years?
Description: Location of the reported a "other" is chosen, use the additional co Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field eld land use Data element name: Field land use Description: Prior to enrollment, what Data type: List	baseline yield being reported? average annual yield of commodity in 3 years prior to enrollment. If olumn to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field • Whole operation • Other (specify) Required: Yes Data collection frequency: Initial enrollment Reporting question: What is this field's land use history? t was the most common land use for this field in the past 3 years? Select multiple values: No
Description: Location of the reported a "other" is chosen, use the additional co Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field eld land use Data element name: Field land use Description: Prior to enrollment, what Data type: List	baseline yield being reported? average annual yield of commodity in 3 years prior to enrollment. If olumn to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field • Whole operation • Other (specify) Required: Yes Data collection frequency: Initial enrollment Reporting question: What is this field's land use history? t was the most common land use for this field in the past 3 years? Select multiple values: No Allowed values:
Description: Location of the reported a "other" is chosen, use the additional co Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field eld land use Data element name: Field land use Description: Prior to enrollment, what Data type: List	baseline yield being reported? average annual yield of commodity in 3 years prior to enrollment. If olumn to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field • Whole operation • Other (specify) Required: Yes Data collection frequency: Initial enrollment Reporting question: What is this field's land use history? t was the most common land use for this field in the past 3 years? Select multiple values: No
Description: Location of the reported a "other" is chosen, use the additional co Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field eld land use Data element name: Field land use Description: Prior to enrollment, what Data type: List	baseline yield being reported? average annual yield of commodity in 3 years prior to enrollment. If olumn to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field • Whole operation • Other (specify) Required: Yes Data collection frequency: Initial enrollment Reporting question: What is this field's land use history? t was the most common land use for this field in the past 3 years? Select multiple values: No Allowed values: • Crop land • Forest land
Description: Location of the reported a "other" is chosen, use the additional co Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field leld land use Data element name: Field land use Description: Prior to enrollment, what Data type: List	baseline yield being reported? average annual yield of commodity in 3 years prior to enrollment. If olumn to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field • Whole operation • Other (specify) Required: Yes Data collection frequency: Initial enrollment Reporting question: What is this field's land use history? t was 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
Description: Location of the reported a "other" is chosen, use the additional co Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field leld land use Data element name: Field land use Description: Prior to enrollment, what Data type: List	baseline yield being reported? average annual yield of commodity in 3 years prior to enrollment. If olumn to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field • Whole operation • Other (specify) Required: Yes Data collection frequency: Initial enrollment Reporting question: What is this field's land use history? t was the most common land use for this field in the past 3 years? Select multiple values: No Allowed values: • Crop land • Forest land
Description: Location of the reported a "other" is chosen, use the additional co Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field leld land use Data element name: Field land use Description: Prior to enrollment, what Data type: List	baseline yield being reported? average annual yield of commodity in 3 years prior to enrollment. If olumn to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field • Whole operation • Other (specify) Required: Yes Data collection frequency: Initial enrollment Reporting question: What is this field's land use history? t was 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
"other" is chosen, use the additional co Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field ield land use Data element name: Field land use	baseline yield being reported? average annual yield of commodity in 3 years prior to enrollment. If olumn to enter the appropriate location as free text. Select multiple values: No Allowed values: • Enrolled field • Whole operation • Other (specify) Required: Yes Data collection frequency: Initial enrollment Reporting question: What is this field's land use history? t was 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 irrigated	
Data element name: Field irrigated	Reporting question: What is this field's irrigation history?
Description: Prior to enrollment, what wa	as the most common irrigation practice on this field the past 3 years?
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
1993 - S	No irrigation
	Center pivot
	Drip-subsurface
	Drip-surface
	Flood/border
	Furrow/ditch
	Lateral/linear sprinklers
	Micro-sprinklers
	Seepage
	Side roll
	Solid set sprinklers
	Supplemental
	Surface
	Traveling gun/towline
	Wheel Line
	Other
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
Field tillage	
Data element name: Field tillage	Reporting question: What is this field's tillage history?
Description: Prior to enrollment, what wa	as the most common tillage approach during the past 3 years?
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	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

USDA Partnerships for Climate-Smart Commodities Data Dictionary for Recipients	5
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Practice past extent - farm Data element name: Practice past extent -	Reporting question: What percent of the farm has
farm	implemented this CSAF practice (combination) previously?
	ion of the whole farm had this (these) CSAF practice(s) ever beer
가 있는 것은 것을 것을 수 있다. 이상 등 등 것이지 않는 것을 알려야 하는 것을 가지 않는 것이 있는 것을 것을 것을 했다. 것이 있는 것을 것을 것을 하는 것을 가지 않는 것을 가지 않는 것이 나는 것을 하는 것을 수 있다. 것을 하는 것을 하는 것을 수 있다. 것을 하는 것을 수 있는 것을 수 있다. 것을 하는 것을 수 있는 것을 수 있다. 것을 하는 것을 하는 것을 수 있다. 것을 수 있는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있다. 것을 수 있다. 것을 수 있다. 것을 수 있는 것을 수 있다. 것을 수 있다. 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있다. 것을 것을 수 있다. 것을 것을 수 있다. 것을 것을 수 있다. 것을 것을 것을 수 있다. 것을 것을 수 있다. 것을 것을 것을 것을 수 있다. 것을 수 있다. 것을 것을 것을 것을 수 있다. 것을 것을 것을 것을 수 있다. 것을 것을 것을 것을 것을 것을 것을 수 있다. 것을 것을 것을 것을 것을 것을 수 있다. 것을	tices are planned to be implemented in this field, enter the value
that best corresponds to the farm's prior expe	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
incusar cinent and category	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
ield any CSAF practice	ರುವಾದ, ಕರ್ನಾಮದರು ದೇವಡಿ ಮರುಜ್ಯ ೩೪೧೦೦೦೦೦೦೦ ರಂಭವಾಗಿದ್ದು. 1
Data element name: Field any CSAF practice	Reporting question: What is this field's prior experience with
a 15	CSAF practices?
Description: Prior to enrollment, have any CSA	AF practice or practices been used in this field in the past 3 years
CSAF practices are included in a list in Append	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
ractice past use - this field	
Data element name: Practice past use - this	Reporting question: Have this CSAF practice (combination)
field	been implemented previously in this field?
	se) CSAF practice(s) been used in this field in the in the past 3
	n used previously in this field; enter some if multiple practices are
	all of the practices had been used previously in this field; and
enter no if none of the practices had been use	이 이 가슴에 있는 것은
Data type: List	Select multiple values: No
	Allowed values:
Measurement unit: Category	
Measurement unit: Category	Yes
Measurement unit: Category	• Some
Measurement unit: Category	SomeNo
	 Some No I don't know
Measurement unit: Category Logic: None – all respond	SomeNo

Practice type	
Data element name: Practice type 1-7	Reporting question: What CSAF practice is being implemented in this field through the project?
project? CSAF practices are included in a list in	s will be implemented on this field as part of enrollment in the n Appendix A. The worksheet provides seven columns for this data
	there are fewer than 7 practices being implemented on this field
through enrollment in the project, leave unne	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values: See list in Appendix A
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
Practice standard	
Data element name: Practice standard 1-7	Reporting question: What standard does the CSAF practice follow?
defined practice standard? The worksheet pro each column, corresponding to the practice to	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
	neguired. res
Data collection level: Field	
Data collection level: Field	Data collection frequency: Initial enrollment
Data collection level: Field	
Data collection level: Field Planned practice implementation year Data element name: Practice 1-7 implementation year	Data collection frequency: Initial enrollment Reporting question: What year is the CSAF practice planned to be implemented?
Data collection level: Field Planned practice implementation year Data element name: Practice 1-7 implementation year 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	Data collection frequency: Initial enrollment Reporting question: What year is the CSAF practice planned to be implemented?
Data collection level: Field Planned practice implementation year Data element name: Practice 1-7 implementation year Description: Year that the CSAF practice is pla defined as fields that have the practice active project). The worksheet provides seven colum corresponding to the practice types entered i implemented on this field through enrollment	Data collection frequency: Initial enrollment Reporting question: What year is the CSAF practice planned to be implemented? anned to be implemented on the field. Use 2022 for early adopters ly implemented in 2022 (prior to contract being signed for this nns for this data element. Enter one value for each column, n the previous columns. If there are fewer than 7 practices being t in the project, leave unnecessary columns blank.
Data collection level: Field Planned practice implementation year Data element name: Practice 1-7 implementation year 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 enrollment Data type: Integer	Data collection frequency: Initial enrollment Reporting question: What year is the CSAF practice planned to be implemented? anned to be implemented on the field. Use 2022 for early adopters ly implemented in 2022 (prior to contract being signed for this nns for this data element. Enter one value for each column, n the previous columns. If there are fewer than 7 practices being t in the project, leave unnecessary columns blank. Select multiple values: No
Data collection level: Field Planned practice implementation year Data element name: Practice 1-7 implementation year Description: Year that the CSAF practice is pla defined as fields that have the practice active project). The worksheet provides seven colum corresponding to the practice types entered i implemented on this field through enrollment Data type: Integer Measurement unit: Year	Data collection frequency: Initial enrollment Reporting question: What year is the CSAF practice planned to be implemented? anned to be implemented on the field. Use 2022 for early adopters ly implemented in 2022 (prior to contract being signed for this nns for this data element. Enter one value for each column, n the previous columns. If there are fewer than 7 practices being t in the project, leave unnecessary columns blank. Select multiple values: No Allowed values: 2022-2030
Data collection level: Field Planned practice implementation year Data element name: Practice 1-7 implementation year Description: Year that the CSAF practice is pla defined as fields that have the practice active project). The worksheet provides seven colum corresponding to the practice types entered i implemented on this field through enrollment Data type: Integer Measurement unit: Year Logic: None – all respond Data collection level: Field	Data collection frequency: Initial enrollment Reporting question: What year is the CSAF practice planned to be implemented? anned to be implemented on the field. Use 2022 for early adopters ly implemented in 2022 (prior to contract being signed for this nns for this data element. Enter one value for each column, n the previous columns. If there are fewer than 7 practices being t in the project, leave unnecessary columns blank. Select multiple values: No Allowed values: 2022-2030 Required: Yes
Data collection level: Field Planned practice implementation year Data element name: Practice 1-7 implementation year Description: Year that the CSAF practice is pla defined as fields that have the practice active project). The worksheet provides seven colum corresponding to the practice types entered i implemented on this field through enrollment Data type: Integer Measurement unit: Year Logic: None – all respond	Data collection frequency: Initial enrollment Reporting question: What year is the CSAF practice planned to be implemented? anned to be implemented on the field. Use 2022 for early adopters ly implemented in 2022 (prior to contract being signed for this nns for this data element. Enter one value for each column, n the previous columns. If there are fewer than 7 practices being t in the project, leave unnecessary columns blank. Select multiple values: No Allowed values: 2022-2030 Required: Yes Data collection frequency: Initial enrollment Reporting question: To what extent is the practice
Data collection level: Field Planned practice implementation year Data element name: Practice 1-7 implementation year Description: Year that the CSAF practice is pladefined as fields that have the practice active project). The worksheet provides seven colum corresponding to the practice types entered is implemented on this field through enrollment Data type: Integer Measurement unit: Year Logic: None – all respond Data collection level: Field Practice extent Data element name: Practice 1-7 extent	Data collection frequency: Initial enrollment Reporting question: What year is the CSAF practice planned to be implemented? anned to be implemented on the field. Use 2022 for early adopters ly implemented in 2022 (prior to contract being signed for this nns for this data element. Enter one value for each column, n the previous columns. If there are fewer than 7 practices being t in the project, leave unnecessary columns blank. Select multiple values: No Allowed values: 2022-2030 Required: Yes Data collection frequency: Initial enrollment
Data collection level: Field Planned practice implementation year Data element name: Practice 1-7 implementation year Description: Year that the CSAF practice is pladefined as fields that have the practice active project). The worksheet provides seven colum corresponding to the practice types entered i implemented on this field through enrollment Data type: Integer Measurement unit: Year Logic: None – all respond Data collection level: Field Practice extent Data element name: Practice 1-7 extent Description: Total area, length, or head where	Data collection frequency: Initial enrollment Reporting question: What year is the CSAF practice planned to be implemented? anned to be implemented on the field. Use 2022 for early adopters ly 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 t in the project, leave unnecessary columns blank. Select multiple values: No Allowed values: 2022-2030 Required: Yes Data collection frequency: Initial enrollment Reporting question: To what extent is the practice implemented?
Data collection level: Field Planned practice implementation year Data element name: Practice 1-7 implementation year 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 enrollment Data type: Integer Measurement unit: Year Logic: None – all respond Data collection level: Field Practice extent Data element name: Practice 1-7 extent Description: Total area, length, or head where contract.	Data collection frequency: Initial enrollment Reporting question: What year is the CSAF practice planned to be implemented? anned to be implemented on the field. Use 2022 for early adopters ly implemented in 2022 (prior to contract being signed for this ons for this data element. Enter one value for each column, in the previous columns. If there are fewer than 7 practices being t in the project, leave unnecessary columns blank. Select multiple values: No Allowed values: 2022-2030 Required: Yes Data collection frequency: Initial enrollment Reporting question: To what extent is the practice implemented? e the practice is being implemented in the field specified by the Select multiple values: No Allowed values: .01-
Data collection level: Field Planned practice implementation year Data element name: Practice 1-7 implementation year Description: Year that the CSAF practice is pladefined as fields that have the practice active project). The worksheet provides seven colum corresponding to the practice types entered i implemented on this field through enrollment Data type: Integer Measurement unit: Year Logic: None – all respond Data collection level: Field Practice extent Data element name: Practice 1-7 extent Description: Total area, length, or head where contract. Data type: Decimal	Data collection frequency: Initial enrollment Reporting question: What year is the CSAF practice planned to be implemented? anned to be implemented on the field. Use 2022 for early adopters ly implemented in 2022 (prior to contract being signed for this ons for this data element. Enter one value for each column, in the previous columns. If there are fewer than 7 practices being t in the project, leave unnecessary columns blank. Select multiple values: No Allowed values: 2022-2030 Required: Yes Data collection frequency: Initial enrollment Reporting question: To what extent is the practice implemented? e the practice is being implemented in the field specified by the Select multiple values: No

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)	
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 received	ved by the producer from USDA project funds for the year (non-
cumulative). Do not include incentive paym	ents 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?
incentive for each reason. The worksheet p	ducer incentive payments. List the top 4 based on total value of the rovides four columns with a drop-down list of the allowed values. are fewer than 4 reasons, leave unnecessary columns blank. If
Measurement unit: Category	 Allowed values: Avoided conversion 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 (mersic)
Logic: None – all respond	Other (specify) Required: Yes
Data collection level: Producer	Data collection frequency: Quarterly
ncentive structure	
Data element name: Incentive structure 1-4	4 Reporting question: What are the units for the financial incentives provided to this producer? esponding to the top 4 (by dollar value) incentive payments to
with a drop-down list of the allowed values	ume (bushel, kilogram, ton). The worksheet provides four columns . Choose one value for each column. If there are fewer than 4 s blank. If "other" is chosen, use the additional column to enter othe
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 from unantur Quartarly

Data collection level: Producer Data collection frequency: Quarterly

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 incentiv	ve payments to producers (based on dollar value). The worksheet
provides four columns with a drop-down li	st of the allowed values. Choose one value for each column. If there
are fewer than 4 incentive types, leave unr	necessary columns blank. If "other" is chosen, use the additional
column to enter other incentive types as fr	ree text.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
incusarement and category	Cash payment
	Equipment loan
	 Guaranteed commodity premium payment
	 Inputs and supplies
	Land rental
	Loan
	Paid labor
	 Post-harvest transportation
	 Tuition or fees for training
Legis None all respond	
Logic: None – all respond Data collection level: Producer	Required: Yes Data collection frequency: Quarterly
ayment on enrollment	Data conection nequency. Quarterry
Data element name: Payment on	Reporting question: What portion of the financial incentive is
enrollment	provided to the producer upon enrollment in the project?
	ded to the producer upon enrollment/signing a contract, and not
related to any implementation MMRV or a	cales activities. Full navment means the full incentive amount for any
44 (8)	
contract held by the producer is paid upon	enrollment. Partial payment means that only part of the full
contract held by the producer is paid upon incentive amount for any contract held by	the producer is paid upon enrollment. No payment means that none
contract held by the producer is paid upon incentive amount for any contract held by of the full incentive amount for any contra-	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.
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	enrollment. Partial payment means that only part of the full the producer is paid upon enrollment. No payment means that none of held by the producer is paid upon enrollment. Select multiple values: No
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	enrollment. Partial payment means that only part of the full the producer is paid upon enrollment. No payment means that none of held by the producer is paid upon enrollment. Select multiple values: No Allowed values:
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	enrollment. Partial payment means that only part of the full the producer is paid upon enrollment. No payment means that none of held by the producer is paid upon enrollment. Select multiple values: No
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	enrollment. Partial payment means that only part of the full the producer is paid upon enrollment. No payment means that none of held by the producer is paid upon enrollment. Select multiple values: No Allowed values:
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	enrollment. Partial payment means that only part of the full the producer is paid upon enrollment. No payment means that none of held by the producer is paid upon enrollment. Select multiple values: No Allowed values: • Full payment
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	 enrollment. Partial payment means that only part of the full the producer is paid upon enrollment. No payment means that none of held by the producer is paid upon enrollment. Select multiple values: No Allowed values: Full payment Partial payment
contract held by the producer is paid upon incentive amount for any contract held by of the full incentive amount for any contra- Data type: List Measurement unit: Category Logic: None – all respond	 enrollment. Partial payment means that only part of the full the producer is paid upon enrollment. No payment means that none ict held by the producer is paid upon enrollment. Select multiple values: No Allowed values: Full payment Partial payment No payment
contract held by the producer is paid upon incentive amount for any contract held by of the full incentive amount for any contra Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer	 enrollment. Partial payment means that only part of the full the producer is paid upon enrollment. No payment means that none of held by the producer is paid upon enrollment. Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes
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 Data collection level: Producer ayment on implementation	 enrollment. Partial payment means that only part of the full the producer is paid upon enrollment. No payment means that none of held by the producer is paid upon enrollment. Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes
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 Data collection level: Producer ayment on implementation Data element name: Payment on	 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 frequency: Quarterly Reporting question: What portion of the financial incentive is
contract held by the producer is paid upon incentive amount for any contract held by of the full incentive amount for any contra Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer ayment on implementation Data element name: Payment on implementation	 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 frequency: Quarterly Reporting question: What portion of the financial incentive is provided to the producer upon implementation of the practices
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 Data collection level: Producer ayment on implementation Data element name: Payment on implementation Description: Any incentive payment provid	 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 frequency: Quarterly Reporting question: What portion of the financial incentive is provided to the producer upon implementation of the practices
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 Data collection level: Producer ayment on implementation Data element name: Payment on implementation Description: Any incentive payment provid contract. Full payment means the full incer	 enrollment. Partial payment means that only part of the full the producer is paid upon enrollment. No payment means that none ict held by the producer is paid upon enrollment. 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 the producer upon implementation of the practices ded to the producer upon implementing the practices included in the ntive amount for any contract held by the producer is paid upon
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 Data collection level: Producer ayment on implementation Data element name: Payment on implementation Description: Any incentive payment provid contract. Full payment means the full incer implementation. Partial payment means the	 enrollment. Partial payment means that only part of the full the producer is paid upon enrollment. No payment means that none ict held by the producer is paid upon enrollment. 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 the producer upon implementation of the practices ded 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
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 Data collection level: Producer ayment on implementation 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	 enrollment. Partial payment means that only part of the full the producer is paid upon enrollment. No payment means that none ict held by the producer is paid upon enrollment. 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 the producer upon implementation of the practices
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 Data collection level: Producer ayment on implementation Data element name: Payment on implementation Description: Any incentive payment provid contract. Full payment means the full incer implementation. Partial payment means the producer is paid upon implementation. No contract held by the producer is paid upon	 enrollment. Partial payment means that only part of the full the producer is paid upon enrollment. No payment means that none ict held by the producer is paid upon enrollment. 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 the producer upon implementation of the practices ded to the producer upon implementing the practices included in the ntive amount for any contract held by the producer is paid upon hat 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.
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Data element name: Payment on harvest	Reporting question: What portion of the financial incentive is
	provided to the producer upon harvest of the commodity?
	ed to the producer upon harvesting or slaughtering the commodity
	ns the full incentive amount for any contract held by the producer is
R (S)	hat only part of the full incentive amount for any contract held by
	nent means that none of the full incentive amount for any contract
held by the producer is paid upon harvest.	Colort multiple values. No
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Full payment
	Partial payment
Logic: None - all respond	No payment Required: Yes
Logic: None – all respond	22 AVA 12
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
Data element name. Payment on wiwiky	provided to the producer upon completing MMRV
	requirements?
Description: Any incentive payment provide	ed to the producer upon completing the annual MMRV requirements
	is the full incentive amount for any contract held by the producer is
51 J.50	ayment means that only part of the full incentive amount for any
	MMRV being complete. No payment means that none of the full
- 홍산 2.43 ~ 10 월일 2.45 시간 ~ 10 10 - 특징 방법에서 11 10 14 시작 21 11 11 11 11 11 11 11 11 11 11 11 11	he producer is paid upon MMRV being complete.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Full payment
	 Full payment Partial payment No payment
Logic: None – all respond	Full paymentPartial payment
	 Full payment Partial payment No payment
Logic: None – all respond Data collection level: Producer Payment on sale	 Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly
Logic: None – all respond Data collection level: Producer	 Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is
Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale	 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?
Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provide	 Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? ed to the producer upon sale of the commodity included in the
Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provide contract. Full payment means the full incen	 Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? ed to the producer upon sale of the commodity included in the tive amount for any contract held by the producer is paid upon sale.
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Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provide contract. Full payment means the full incen Partial payment means that only part of the upon sale. No payment means that none of paid upon sale. Data type: List	 Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? ed to the producer upon sale of the commodity included in the tive amount for any contract held by the producer is paid upon sale. e full incentive amount for any contract held by the producer is paid the full incentive amount for any contract held by the producer is Select multiple values: No Allowed values: Full payment Partial payment

Unique IDs		
Farm ID Un	ique Farm ID assigned by FSA	
Tract ID Un	ique Tract ID assigned by FSA	
Field ID Un	ique Field ID assigned by FSA	
State or territory of field Sta	State name (must match FSA farm enrollment data)	
County of field Co	County name (must match FSA farm enrollment data)	
Commodity type		
Data element name: Commodity type	Reporting question: What type of commodity is produced from this field?	
	d in field enrolled in the project. See full list in Appendix B. The	
	h a drop-down list of the allowed values. Choose one value for each	
column. Leave unnecessary columns blan Data type: List	k. Select multiple values: No	
9001	Allowed values: FSA commodity list	
Measurement unit: Category Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	
	Data collection frequency: Quarterly	
Practice type Data element name: Field practice type 1	-7 Reporting question: What CSAF practice is being implemented	
Data element name. Field practice type 1	in this field through the project?	
Description: Which climate-smart agricult	cure or forestry (CSAF) practice or practices are being implemented in	
 State Taxable Constraints and the state of t	n a list in Appendix A. The worksheet provides seven columns for this	
data element. Enter one value for each co	lumn. If there are fewer than 7 practices being implemented on this	
field through enrollment in the project, le		
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values: See list in Appendix A	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	
Date practice complete		
Data element name: Date practice compl	ete Reporting question: When did the project certify CSAF practice implementation as complete?	
Description: Date that the project certifie	s that implementation of the CSAF practice is complete on the field.	
Use January of the year prior to contract	year for early adopters, defined as fields that have the practice actively	
NU 70 80	ct associated with this project is signed). The worksheet provides	
	er one value for each column, corresponding to the practice types	
· 이상 사람이 많은 것 같아요. 정말 수 있는 것을 사람이 있는 것을 가지 않는 것을 가지 않는 것을 수 있는 것을 수 있다.	are fewer than 7 practices being implemented on this field through	
enrollment in the project, leave unnecess	Constant Alexandria Constanting Constanting and Constanting Constantin	
Data type: Date	Select multiple values: No	
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023 – 12/31/2030	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	

Contract end date	
Data element name: Contract end date	Reporting question: Contract end date
Description: End date listed on the contract that end submit updated end date during the next quarter's re Data type: Date	rolls the field in the project. If contract end date changes, eporting. Select multiple values: No
10-000 3814 (KK00-4001) (K1000)	Process Approximation and a second management of the second s
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?
includes in-field support for the use of technologies, support related to MMRV. MMRV is defined a measu monitoring (ongoing review and confirmation that th to the agreed upon standard and documentation of a impacts over time), reporting (documenting and shar partners, the recipient, and any third-party verification	urement (calculations or estimations of GHG emissions), ne climate-smart practice has been implemented according any changes in the site, implementation, or GHG emissions ring monitoring and measurement results with project
Measurement unit: Category	Allowed values:
	• Yes
	• No
	 I don't know
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Marketing assistance provided	
Data element name: Marketing assistance provided	provided?
그는 것 같은 것을 잘 수 있다. 그 그 그 그는 것이 같은 것을 하는 것 같은 것 같	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:
ನಿಯಾಗಿ ಕಾರ್ಯವರ್ಷ- ಹೆಗೆದಿಗೆ ನೆಲೆಡೆ ಸಿದ್ದಿಗಳ ಪ್ರಶಸ್ತಿ ಪ್ರಶಸ್ತಿ ಪ್ರಶಸ್ತಿ ಅಂದರೆ ಅಂದರೆ ಕಾರ್ಯಕ್ರೆ ಅಂದರೆ ಪ್ರಶಸ್ತಿ ಕಾರ್ಯಕ್ರ ಕಾರ್ಯಕ್ರಮ ಕಾರ್ಯಕ್ರಮ ಕಾರ್ಯಕ್ರಮ ಕಾರ್ಯಕ್ರಮ ಕಾರ್ಯಕ್ರಿ ಕಾರ್ಯಕ್ರಿ ಅಂದರೆ ಕಾರ್ಯಕ್ರಿ ಕಾರ್ಯಕ್ರಿ ಕಾರ್ಯಕ್ರಿ ಕಾರ್ಯಕ್ರಿ ಕಾರ್ಯಕ	Yes
	• No
	I don't know
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
ncentive per acre or head	
Data element name: Incentive per acre or head	Reporting question: Is this field receiving a per-acre or per-head incentive?
	ent to implement a specific CSAF practice or set of practices
on a per-acre or per-head (livestock) basis?	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values: • Yes
	• No
	I don't know
Logic: None – all respond	

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 p	
Data type: Decimal	Select multiple values: No
Measurement unit: Dollars	Allowed values: \$1-\$10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Field commodity volume	64 (24) (2 U
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 prod	uced on the enrolled field
Data type: Decimal	Select multiple values: No
Measurement unit: Number	Allowed values: 1-10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Field commodity volume unit	
Data element name: Field commodity volume	Reporting question: What is the unit of volume?
Data element name: Field commodity volume unit	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List Measurement unit: Category	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Tons
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List Measurement unit: Category	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Tons Other (specify)
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field Cost of implementation	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Tons Other (specify) Required: Yes
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List Measurement unit: Category Measurement unit: Category Data collection level: Field Cost of implementation Data element name: Cost of implementation	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Tons Other (specify) Required: Yes Data collection frequency: Quarterly Reporting question: What is the cost of practice implementation in the field?
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List Measurement unit: Category Measurement unit: Category Data collection level: Field Cost of implementation Data element name: Cost of implementation	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Tons Other (specify) Required: Yes Data collection frequency: Quarterly Reporting question: What is the cost of practice
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List Measurement unit: Category Measurement unit: Category Data collection level: Field Cost of implementation Data element name: Cost of implementation	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Tons Other (specify) Required: Yes Data collection frequency: Quarterly Reporting question: What is the cost of practice implementation in the field?
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List Measurement unit: Category Measurement unit: Category Data collection level: Field Cost of implementation Data element name: Cost of implementation Description: Total annual estimated cost per unit	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Tons Other (specify) Required: Yes Data collection frequency: Quarterly Reporting question: What is the cost of practice implementation in the field? t of implementing the practice(s) in the enrolled field.
Data element name: Field commodity volume unit Description: The unit associated with the volume chosen, enter the appropriate value in the additi Data type: List Measurement unit: Category Measurement unit: Category Logic: None – all respond Data collection level: Field Cost of implementation Data element name: Cost of implementation Description: Total annual estimated cost per unit Data type: Decimal	e of the commodity produced on the enrolled field. If "other" is ional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Tons Other (specify) Required: Yes Data collection frequency: Quarterly Reporting question: What is the cost of practice implementation in the field? t of implementing the practice(s) in the enrolled field. Select multiple values: No

Cost unit Data element name: Cost unit	Reporting question: What is the unit for cost?
	the cost of implementing CSAF practices in the field. If "other" is chosen,
enter the appropriate value in the addi	
Data type: List	Select multiple values: No
	Allowed values:
Measurement unit: Category	Per acre
	Per bushel
	Per head
	Per linear foot
	Per pound
	Per ton
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Cost coverage	
Data element name: Cost coverage	Reporting question: What percent of the practice cost is
	covered by the incentive?
Description: Estimated proportion of to incentives.	otal annual cost of implementing the practice(s) that is covered by projec
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
ield GHG monitoring	
Data element name: Field GHG monito	
1-3	field?
is defined as ongoing review and confin to the agreed upon standard and docu impacts over time. Include up to 3 met The worksheet provides three columns	s of monitoring GHG benefits as part of MMRV requirements. Monitoring rmation that the climate-smart practice has been implemented according mentation of any changes in the site, implementation, or GHG emissions shods, based on which methods are most commonly used for this field. s with a drop-down list of the allowed values. Choose one value for each ng methods are used, leave unnecessary columns blank. If "other" is
chosen, use the additional column to e Data type: List	enter other GHG monitoring methods as free text. Select multiple values: No
chosen, use the additional column to e	Select multiple values: No Allowed values:
chosen, use the additional column to e Data type: List	Select multiple values: No Allowed values: • Drones
chosen, use the additional column to e Data type: List	Select multiple values: No Allowed values: Drones Ground-level photos and videos
chosen, use the additional column to e Data type: List	Select multiple values: No Allowed values: Drones Ground-level photos and videos On-farm inspection
chosen, use the additional column to e Data type: List	Select multiple values: No Allowed values: Drones Ground-level photos and videos On-farm inspection Plot-based sampling (e.g., soil, water)
chosen, use the additional column to e Data type: List	Select multiple values: No Allowed values: Drones Ground-level photos and videos On-farm inspection Plot-based sampling (e.g., soil, water) Producer records or attestation
chosen, use the additional column to e Data type: List	Select multiple values: No Allowed values: Drones Ground-level photos and videos On-farm inspection Plot-based sampling (e.g., soil, water) Producer records or attestation Satellite monitoring or remote sensing
chosen, use the additional column to e Data type: List	Select multiple values: No Allowed values: Drones Ground-level photos and videos On-farm inspection Plot-based sampling (e.g., soil, water) Producer records or attestation Satellite monitoring or remote sensing Soil metagenomics
chosen, use the additional column to e Data type: List	Select multiple values: No Allowed values: Drones Ground-level photos and videos On-farm inspection Plot-based sampling (e.g., soil, water) Producer records or attestation Satellite monitoring or remote sensing Soil metagenomics Soil sensors
chosen, use the additional column to e Data type: List	Select multiple values: No Allowed values: Drones Ground-level photos and videos On-farm inspection Plot-based sampling (e.g., soil, water) Producer records or attestation Satellite monitoring or remote sensing Soil metagenomics Soil sensors Water sensors
chosen, use the additional column to e Data type: List	Select multiple values: No Allowed values: Drones Ground-level photos and videos On-farm inspection Plot-based sampling (e.g., soil, water) Producer records or attestation Satellite monitoring or remote sensing Soil metagenomics Soil sensors

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

ield GHG reporting		
Data element name: Field GHG reporting 1-3	Reporting question: How were GHG benefits reported for this field?	
is defined as documenting and sharing mo recipient, and any third-party verification most commonly used for this field. The wo values. Choose one value for each column	reporting on GHG benefits as part of MMRV requirements. Reporting onitoring and measurement results with project partners, the organization. Include up to 3 methods, based on which methods are orksheet provides three columns with a drop-down list of the allowed I. If fewer than 3 GHG reporting methods are used, leave unnecessary ne additional column to enter other GHG reporting methods as free	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
na new zalak wana zale wana dan kana kana kana kana kana kana ka	Automated devices	
	Email	
	Mobile app	
	Paper	
	Third-party actors	
	Website	
	Other (specify)	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	
ield GHG verification		
Data element name: Field GHG verificatio	n Reporting question: How was implementation of practices to reduce GHG emissions verified for this field?	
defined as independent confirmation that accurate and reliable. Include up to 3 met The worksheet provides three columns wi column. If fewer than 3 GHG verification r chosen, use the additional column to ente Data type: List	ation of GHG benefits as part of MMRV requirements. Verification is measurement, monitoring and reporting information are complete, hods, based on which methods are most commonly used for this field th a drop-down list of the allowed values. Choose one value for each nethods are used, leave unnecessary columns blank. If "other" is er other GHG verification methods as free text. Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Artificial intelligence	
	Computer modeling	
	Recipient audit Rector	
	PhotosRecord audit	
	Satellite imagery	
	Site or field visit	
	Service Service and a state of the state of the state	
	 Third-party audit 	
	 Third-party audit Other (specify) 	
Logic: None – all respond	 Third-party audit Other (specify) Required: Yes 	

Field GHG calculations		
Data element name: Field GHG	Reporting question: What methods are used to calculate GHG	
calculations	benefits in this field?	
the state is a first second data and the state is a state of the state	alculate GHG benefits in this field. If yes to direct physical	
measurements, submit result reports (see results).	e Supplemental Data Submission – Field direct GHG measurement	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Models	
	 Direct field measurements 	
	• Both	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	
ield official GHG calculation		
Data element name: Field official GHG calculation	Reporting question: What method was used to calculate the official GHG benefits in this field?	
	ulate the official GHG benefits in this field that are reported as part of	
the project's aggregate impact.		
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Models	
	 Direct field measurements 	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	
Field official GHG ER		
Data element name: Field official GHG	Reporting question: What are the estimated total GHG emission	
emission reductions	reductions (CO2eq) in this field?	
	mission reductions from practice implementation in this field that are	
	e impact. This data element must be entered upon practice completion	
or annually, as appropriate.	Colort multiple volume. No	
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: Yes	
Data collection level: Field	Data collection frequency: Quarterly	
Field official carbon stock		
Data element name: Field official carbon stock	Reporting question: How much carbon has been sequestered in this field?	
	rbon stock based on practice implementation in this field. This data	
element can be reported in any quarter a	nd is cumulative for the year. Conversion rate is one ton of carbon =	
3.67 tons of CO ₂ eq.	Colort multiple values. No	
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: Yes	
Data collection level: Field	Data collection frequency: Quarterly	

Field official CO2 ER		
Data element name: Field official CO2 emission reductions	Reporting question: What are the estimated total CO2 emission reductions in this field?	
	e emission reductions based on practice implementation in this field	
that are reported as part of the project's ag	ggregate impact. This data element must be entered upon practice	
completion or annually, as appropriate.	Colorat mendatoria conference Allar	
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: Field	Data collection frequency: Quarterly	
Field official CH4 ER		
Data element name: Field official CH4 emis reductions	ssion Reporting question: What are the estimated total CH4 emission reductions in this field?	
Description: Estimated total methane emis	sion reductions based on practice implementation in this field that	
(13)	ate impact. This data element must be entered upon practice	
	nversion rate is one ton of $CH_4 = 25$ tons of CO_2eq .	
Data type: Decimal	Select multiple values: No	
Measurement unit: Metric tons CH4 reduce CO ₂ eq	ed in Allowed values: 0-10,000,000	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	
Field official N20 ER		
Data element name: Field official N2O emis reductions	ssion Reporting question: What are the estimated total N2O emission reductions in this field?	
Characterization and the second s	emission reductions based on practice implementation in this field	
that are reported as part of the project's ag	ggregate impact. This data element must be entered upon practice nversion rate is one ton of $N_2O = 298$ tons of CO_2eq .	
Data type: Decimal	Select multiple values: No	
Measurement unit: Metric tons N2O reduc	24-10 Million Linux III A Construction Construction Construction	
CO ₂ eq	ed in Allowed Values. 0-10,000,000	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	
Field offsets produced		
Data element name: Field offsets produced	Reporting question: How many carbon offsets have been produced in this field?	
Description: Total carbon offsets produced	in the field during the quarter (not cumulative). Offsets are defined	
	an accepted standard and sold into the carbon marketplace.	
Data type: Decimal	Select multiple values: No	
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000	
Logic: None – all respond	Required: Yes	

Field insets produced		
Data element name: Field insets produced	Reporting question: How many carbon insets have been produced in this field?	
	the field during the quarter (not cumulative). Insets are defined as ccepted standard and accounted for within Scope 3 emissions for a	
Data type: Decimal	Select multiple values: No	
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	
Other field measurement		
Data element name: Other field measurement	Reporting question: Were data collected from the field for reasons other than GHG benefit estimation?	
benefits estimation. These reasons could incle environmental benefits (see Field environme corresponding reports (see <i>Supplemental da</i>	or data collection taken in the field for any reason other than GHG lude calibration of GHG estimation tools or models, tracking other ental benefits report), and other reasons. If yes, submit ta submission - Field direct measurement results).	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values: • Yes • No • I don't know	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	

GHG Benefits - Alternate Modeled

Farm ID	Unique Farm ID assigned by FSA		
Tract ID	Uniqu	Unique Tract ID assigned by FSA	
Field ID	Uniqu	ue Field ID assigned by FSA	
State or territory of field	State	name (must match FSA farm enrollment data)	
County of field	Coun	County name (must match FSA farm enrollment data)	
Commodity type			
Data element name: Commodity type 1-6		Reporting question: What type of commodity(ies) is produced from this field?	
	ovides mult	ced in field enrolled in the project. See full list of commodity options iple columns with drop-down lists of the allowed values. Choose ary columns blank Select multiple values: No	
Measurement unit: Category			
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods		
Data collection level: Field		Data collection frequency: Annual	
Practice type			
Data element name: Practice type 1-7		Reporting question: What CSAF practice is being implemented by this project?	
included in a list in Appendix A.	he workshe	es are being implemented in this project? CSAF practices are eet provides seven columns for this data element. Enter one value ractices being implemented by the project, leave unnecessary	
Data type: List Select multiple values: No		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: Annua		Data collection frequency: Annual	

iHG model Data element name: GHG model	Reporting question: What model was used for alternate calculation of GHG benefit		
	d for the alternate calculation of the field's GHG benefits.		
Data type: List	Select multiple values: No		
600 ac			
Measurement unit: Category	Allowed values:		
	ACC Calculator		
	 Agriculture, Forestry and Other Land Use (AFOLU) Carbon Calculator AIRES 		
	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 SALUE (CIRC)		
	SALUS (CIBO) SNADCRAZE		
	SNAPGRAZE SquareBoats		
	 SquareRoots SWAT-C 		
	SYMFONI Truterra Sustainability Tool		
	Verra		
	WEPP		
	YardStick		
	Other (specify)		
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods		
Data collection level: Field	Data collection frequency: Annual		

Model start date	
Data element name: Model start date	Reporting question: For what time period are the GHG benefits modeled (model start date)?
Description: Date that the model 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	Y
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 estimated	Reporting question: What is the alternate estimate of the field' total GHG emission reductions?
Description: Total greenhouse gas emission using an alternate model.	reductions from practice implementation in the field estimated
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods
Data collection level: Field	Data collection frequency: Annual
Total carbon stock estimated	
Data element name: Total carbon stock estimated	Reporting question: What is the alternate estimate of how muc carbon has the field has sequestered?
Description: Total change in carbon stock ba alternate model. Conversion rate is one ton	ased on practice implementation in the field estimated using an
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods
Data collection level: Field	Data collection frequency: Annual
Total CO2 estimated	22 22
Data element name: Total CO2 estimated	Reporting question: What is the alternate estimate of the field total CO2 emission reductions?
Description: Total carbon dioxide emission r using an alternate model.	eductions based on practice implementation in the field estimated
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO2	Allowed values: 0-10,000,000
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods
Data collection level: Field	Data collection frequency: Annual



Fotal CH4 estimated	
Data element name: Total CH4 estimated	Reporting question: What is the alternate estimate of the field's total CH4 emission reductions?
Description: Total methane emission reductions based on prac an alternate model. Conversion rate is one ton of CH ₄ = 25 ton	N 174
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CH4 reduced in CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods
Data collection level: Field	Data collection frequency: Annual
otal field N20 estimated	
Data element name: Total N2O estimated	Reporting question: What is the alternate estimate of the field's total N2O emission reductions?
Description: Total nitrous oxide emission reductions based on using an alternate method. Conversion rate is one ton of N_2O =	298 tons of CO₂eq.
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons N2O reduced in 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

GHG Benefits - Measured

110	iau	~ 1	n.	

Unique IDs		
Farm ID	Unique Farm ID assigned by F	SA
Tract ID	Unique Tract ID assigned by F	SA
Field ID	Unique Field ID assigned by FS	5A
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		
	ta element name: GHG measurement method	
1.172		G benefits. If "other" is chosen, enter the
appropriate value as free text in	n the additional column.	
Data type: List		Select multiple values: No
Measurement unit: Category		 Allowed values: Emissions measurement unit Flux towers Litterbags Plant measurements Portable emissions analyzers Soil flux chambers Soil samples Soil sensors Vehicle-mounted sensors Other (specify) Required: If a project conducts soil samples or takes carbon stock or greenhouse gas emission measurements in this field
Data collection level: Field Data collection finder Annual		Data collection frequency: Annual
Lab name		256 Decembra 25.00 (10) 01.000 01.000 01.000 01.000 00 00 00 00 00 00 00 00 00 00 00 00
Data element name: Lab name	1 Martine Contraction (1997)	question: What is the name of the lab that the measurement samples?
Description: Name of entity that	at received data and conducted analys	All and a second second from the second s
Data type: Text	Select mu	tiple values: No
Measurement unit: NA	Allowed v	alues: Free text
Logic: None – all respond	Required:	If applicable
MANY INC. CALLS 1981 AN ALL DRAFT AND		FIGURE MANY data for

Data collection frequency: Annual

Data collection level: Field



Measurement start date		
Data element name: Measurement start date	Reporting question: On what date did the measurement start?	
Description: Date that the measurements began. If it w	was a single point in time, use the same date for start date	
and end date. If multiple measurements took place ov began.	er a time period, use the date that the measurements firs	
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?	
	was a single point in time, use the same date for start date	
and end date. If multiple measurements took place ov were completed.	er a time period, use the date that the measurements	
Data type: Date	Select multiple values: No	
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023- 12/31/2030	
Logic: None – all respond	Required: If a project conducts soil samples or takes carbon stock or greenhouse gas emission measurements in this field	
Data collection level: Field	Data collection frequency: Annual	
Total CO2 reduction calculated		
Data element name: Total CO2 reduction calculated Description: Total annual CO2 emission reductions bas from in-field measurements.	Reporting question: What are the total measured CO2 emission reductions? sed on practice implementation in the field calculated	
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	
Logic: None an respond		
Data collection level: Field	carbon stock or greenhouse ga emission measurements in this field Data collection frequency: Annual	
is building to occurrent the end of the end of the period of the end of the e	emission measurements in this field Data collection frequency:	
is building to occurrent the end of the end of the period of the end of the e	emission measurements in this field Data collection frequency:	
Total field carbon stock measured Data element name: Total field carbon stock measured Description: Change in carbon stock based on practice sampling in this field. (Results for initial field soil samp 'Measurement type" columns.) Conversion rate is one	emission measurements in this field Data collection frequency: Annual Reporting question: What is the total amount of carbon sequestered based on repeat measurements in this field? implementation in the field calculated from repeat soil les should be reported in the 'Soil sample result' and ton of carbon = 3.67 tons of CO ₂ eq.	
Total field carbon stock measured Data element name: Total field carbon stock measured Description: Change in carbon stock based on practice sampling in this field. (Results for initial field soil samp 'Measurement type" columns.) Conversion rate is one Data type: Decimal	emission measurements in this field Data collection frequency: Annual Reporting question: What is the total amount of carbon sequestered based on repeat measurements in this field? e implementation in the field calculated from repeat soil les should be reported in the 'Soil sample result' and ton of carbon = 3.67 tons of CO ₂ eq. Select multiple values: No	
Total field carbon stock measured Data element name: Total field carbon stock measured Description: Change in carbon stock based on practice sampling in this field. (Results for initial field soil samp 'Measurement type" columns.) Conversion rate is one	emission measurements in this field Data collection frequency: Annual Reporting question: What is the total amount of carbon sequestered based on repeat measurements in this field? e implementation in the field calculated from repeat soil les should be reported in the 'Soil sample result' and ton of carbon = 3.67 tons of CO ₂ eq.	
Total field carbon stock measured Data element name: Total field carbon stock measured Description: Change in carbon stock based on practice sampling in this field. (Results for initial field soil samp 'Measurement type" columns.) Conversion rate is one Data type: Decimal	emission measurements in this field Data collection frequency: Annual Reporting question: What is the total amount of carbon sequestered based on repeat measurements in this field? e implementation in the field calculated from repeat soil les should be reported in the 'Soil sample result' and ton of carbon = 3.67 tons of CO ₂ eq. Select multiple values: No	

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

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

Additional Environmental Benefits

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

Environmental benefits	
Data element name: Environmental	Reporting question: Are environmental benefits other than
benefits	GHGs being tracked in the field?
	fits other than greenhouse gas emission reductions and carbon
sequestration in the enrolled field. Tracking that can quantify benefits.	means at a minimum using some form of monitoring and reporting
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
Measurement unit. Category	Yes
	• No
	 I don't know
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Reduction in nitrogen loss	
Data element name: Reduction in nitrogen	Reporting question: Are reductions in nitrogen losses being
loss	tracked in the field?
	losses in the enrolled field. Tracking means at a minimum using
some form of monitoring and reporting that	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Yes
	• No
	I don't know
Logic: Respond if yes to 'Environmental benefits'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Reduction in nitrogen loss amount	
Data element	Reporting question: How much reduction in nitrogen losses
name: Reduction in nitrogen loss amount Description: Total amount of reduction in nit	have been measured in the field? trogen losses that is measured and reported in the enrolled field.
Data type: Decimal	Select multiple values: No
Measurement unit: Amount	Allowed values: 0-1,000,000
Logic: Respond if yes to 'Reduction in nitrogen loss'	Required: Yes
Data collection level: Field	Data collection frequency: Annual

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?
- 이 사가 가지 다 나님의 것이 같았다. 그는 가지 않는 것 같은 것 같은 것 같은 것 같아요. 이렇게 가지 않는 것이 것 같아요. 그는 것이 가지 않는 것이 가지 않는 것이 것 같아요. 그는 것이 있다.	uction in nitrogen losses that is measured and reported in the
	appropriate value as free text in the additional column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Kilograms
	Metric tons
	Pounds
	Other (specify)
Logic: Respond if yes to 'Reduction in	Required: Yes
nitrogen loss' Data collection level: Field	Data collection frequency: Annual
	Data collection frequency. Annual
Reduction in nitrogen loss purpose	Departing quarties: What is the surgest of tracking reduction in
Data element name: Reduction in nitrogen loss purpose	Reporting question: What is the purpose of tracking reduction in nitrogen losses?
	nitrogen losses in the enrolled field. If "other" is chosen, enter the
appropriate value as free text in the addition	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Commodity marketing
	Producing insets
	Producing offsets
	I don't know
	Other (specify)
Logic: Respond if yes to 'Reduction in	Required: Yes
nitrogen loss'	1100-04140 - 000 - 1005 - 400 - 100
Data collection level: Project	Data collection frequency: Annual
Reduction in phosphorus loss	
Data element name: Reduction in	Reporting question: Are reductions in phosphorus losses being
phosphorus loss	tracked in the field?
using some form of monitoring and reporting	norus losses in the enrolled field. Tracking means at a minimum
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values: • Yes
	 res No
	I don't know
Logic: Respond if yes to 'Environmental	Required: Yes
benefits'	negatien fes
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.
Description. Total amount of reduction in pri	
Data type: Decimal	Select multiple values: No
and the second sec	Select multiple values: No Allowed values: 0-1,000,000
Data type: Decimal Measurement unit: Amount	
Data type: Decimal	Allowed values: 0-1,000,000

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Data element name: Reduction in	Reporting question: What is the unit for the reduction in
phosphorus loss amount unit	phosphorus losses measured in the field?
같은 것은 것은 것은 것은 것을 것을 수 있는 것은 것을 가지 않는 것을 것을 것을 것을 것을 것을 것을 했다. 것은 것을 수 있다. 것은 것을	eduction in phosphorus losses that is measured in the enrolled field. I
"other" is chosen, enter the appropriate va	lue as free text in the additional column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Kilograms
	Metric tons
	Pounds
	Other (specify)
Logic: Respond if yes to 'Reduction in phosphorus loss'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Reduction in phosphorus loss purpose	
Data element name: Reduction in	Reporting question: What is the purpose of tracking reductions
phosphorus loss purpose	in phosphorus losses?
	in phosphorus losses in the enrolled field. If "other" is chosen, enter
the appropriate value as free text in the ad	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Commodity marketing
	Producing insets
	 Producing offsets
	 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?
	r quality metrics in the enrolled field. Tracking means at a minimum
using some form of monitoring and report	ner were alle the state of the
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	• Yes
	• No
23 (3) (3) (3) (3) (3) (3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	I don't know
Logic: Respond if yes to 'Environmental benefits'	Required: Yes
Data collection level: Field	Data collection frequency: Annual

Data element name: Other water quality	Reporting question: What type of other water quality metric
type	have been measured in the field?
50 6.4 to access	tric (besides nitrogen loss and phosphorus loss reductions) that is
	enter the appropriate value as free text in the additional column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	 Sediment load reduction
	Temperature
	Other (specify)
Logic: Respond if yes to 'Other water quality'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Other water quality amount	
Data element name: Other water quality	Reporting question: How much reduction in other water quality
amount	metrics have been measured in the field?
Description: Total amount of reduction in o	ther water quality metrics that is measured in the enrolled field.
Data type: Decimal	Select multiple values: No
Measurement unit: Amount	Allowed values: 0-1,000,000
Logic: Respond if yes to 'Other water quality'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Other water quality amount unit	
Data element name: Other water quality amount unit	Reporting question: What is the unit for the reduction in other water quality metrics measured in the field?
	duction in other water quality metrics that is measured in the
	appropriate value as free text in the additional column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Degrees F
	Kilograms
	Kilograms per liter
	Metric tons
	Pounds Other (specify)
Logic: Pospand if you to 'Other water	Other (specify) Required: Yes
Logic: Respond if yes to 'Other water quality'	
Data collection level: Field	Data collection frequency: Annual

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

Water quantity purpose	
Data element name: Water quantity	Reporting question: What is the purpose of tracking water
purpose	conservation?
and the reason of the second	servation or reductions in water use in the enrolled field. If "other" is
chosen, enter the appropriate value as free	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Commodity marketing
	 Producing insets Producing offsets
	 I don't know
	Other (specify)
Logic: Respond if yes to 'Water quantity'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Reduced erosion	
Data element name: Reduced erosion	Reporting question: Is reduced soil erosion being tracked in the
	field?
Description: Tracking of reduced soil erosio	n in the enrolled field. Tracking means at a minimum using some
form of monitoring and reporting that can c	juantify benefits.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	• Yes
	• No
	 I don't know
Logic: Respond if yes to 'Environmental	Required: Yes
benefits'	
Data collection level: Field	Data collection frequency: Annual
Reduced erosion amount	2000 8021 2021 5225 10 10 20 20 20
Data element name: Reduced erosion	Reporting question: How much erosion reduction has been
amount	measured in the field?
Description: Total amount of erosion reduct	5 (Chird) (Ca
Data type: Decimal	Select multiple values: No
Measurement unit: Amount	Allowed values: 0-1,000,000
Logic: Respond if yes to 'Reduced erosion'	Required: Yes
Data collection level: Field	Data collection frequency: Annual
Reduced erosion amount unit	
Data element name: Reduced erosion unit	Reporting question: What is the unit for the amount of erosion reduction measured?
Description: Unit for the total amount of er	osion reduction from enrolled fields that is measured and reported
	e appropriate value as free text in the additional column.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	• Tons
	Other (specify)
Logic: Respond if yes to 'Reduced erosion'	Required: Yes
Data collection level: Field	Data collection frequency: Annual

Reduced erosion purpose		
Data element name: Reduced erosion	Reporting question: What is the purpose of tracking reduced	
purpose	erosion in the field?	
- a state of a state of the second state of the State State of the State of the state of the second state of the state	osion the enrolled field. If "other" is chosen, enter the appropriate	
value as free text in the additional column.	and an even in the feet of the second second	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Commodity marketing	
	Producing insets	
	Producing offsets	
	I don't know	
Logic: Respond if yes to 'Reduced erosion'	 Other (specify) Required: Yes 	
Data collection level: Field		
-5-73.2000,03.03.58.200,000,04.80.200,00,000,0000000000000000000000000	Data collection frequency: Annual	
Reduced energy use Data element name: Reduced energy use	Reporting question: Is reduced energy use being tracked in the	
Data element name: Reduced energy use	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 qu		
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	155 82 52 52 52 1 (2) (3) a (0)	
Data element name: Reduced energy use	Reporting question: How much energy use reduction has been	
amount	measured in the field?	
10 N N N N N N N N N N N N N N N N N N N	uction that is measured in the enrolled field.	
Data type: Decimal	Select multiple values: No	
Measurement unit: Amount	Allowed values: 0-1,000,000	
Logic: Respond if yes to 'Reduced energy use'	Required: Yes	
Data collection level: Field	Data collection frequency: Annual	
Reduced energy use amount unit		
Data element name: Reduced energy use	Reporting question: What is the unit for the energy use	
unit	reduction measured in the field?	
	ergy use reduction that is measured in the enrolled field. If "other"	
is chosen, enter the appropriate value as fre Data type: List	Select multiple values: No	
Perinden de la competition de	Service of Subjects March 1997 - A state of Abstract March 1997	
Measurement unit: Category	Allowed values:	
	Kilowatt hours	
Logic: Personal if yes to (Peduced energy	Other (specify) Pequired: Yes	
Logic: Respond if yes to 'Reduced energy use'	Required: Yes	
	Data collection frequency: Annual	

Reduced energy use purpose			
Data element name: Reduced energy use	Reporting question: What is the purpose of tracking reduced		
purpose	energy use in the field?		
	ergy use in the enrolled field. If "other" is chosen, enter the		
appropriate value as free text in the addition			
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Commodity marketing		
	 Producing insets 		
	 Producing offsets 		
	I don't know		
5 p mot (1942) (1 1942) (1 1	Other (specify)		
Logic: Respond if yes to 'Reduced energy use'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Avoided land conversion			
Data element name: Avoided land conversion	Reporting question: Is avoided land conversion being tracked in the field?		
	rsion in the enrolled field. Tracking means at a minimum using some uantify benefits. Land conservation means land use changing from		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
measurement and category	Yes		
	• No		
	I don't know		
Logic: Respond if yes to 'Environmental benefits'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Avoided land conversion amount			
Data element name: Avoided land	Reporting question: How much avoided land conversion has		
conversion amount	been measured in the field?		
Description: Total amount of avoided land 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		
	Required: Yes		
Logic: Respond if yes to 'Avoided land conversion'			
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?		
State of the state	oided land conversion that is measured in the enrolled field. If		
"other" is chosen, enter the appropriate value			
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Acres		
In the Design of the Control of the	Other (specify)		
Logic: Respond if yes to 'Avoided land conversion'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		

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Avoided land conversion purpose			
Data element name: Avoided land	Reporting question: What is the purpose of tracking avoided		
conversion purpose	land conversion in the field?		
- No. 2017년 1월 2017년 1월 2017년 1월 2017년 1월 2017년 2월 2017년 1월 2017년 1월 2017년 1월 2017년 1월 2017년 1월 2017년 1월 2017년 1월 2017년 1월 2	nd conversion in the enrolled field. If "other" is chosen, enter the		
appropriate value as free text in the addition			
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Commodity marketing		
	Producing insets		
	 Producing offsets 		
	I don't know		
	• Other (specify)		
Logic: Respond if yes to 'Avoided land conversion'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Improved wildlife habitat	Data conection nequency. Annual		
Data element name: Improved wildlife	Reporting question: Are improvements to wildlife habitat being		
habitat	tracked in the field?		
	ildlife in and around the enrolled field. Tracking means at a		
minimum using some form of monitoring an	11 12 1 12 1 12 1 12 1 1 1 1 1 1 1 1 1		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
12 6	Yes		
	• No		
	 I don't know 		
Logic: Respond if yes to 'Environmental	Required: Yes		
benefits'			
Data collection level: Field	Data collection frequency: Annual		
mproved wildlife habitat amount			
Data element name: Improved wildlife	Reporting question: How much improved wildlife habitat has		
habitat amount	been measured in the field?		
	life habitat that is measured in and around the enrolled fields.		
Data type: Decimal	Select multiple values: No		
Measurement unit: Amount	Allowed values: 0-1,000,000		
Logic: Respond if yes to 'Improved wildlife	Required: Yes		
habitať			
Data collection level: Field	Data collection frequency: Annual		
Improved wildlife habitat amount unit			
Data element name: Improved wildlife	Reporting question: What is the unit for the amount of improved		
habitat unit	wildlife habitat measured in the field?		
	proved wildlife habitat that is measured in and around enrolled		
	riate value as free text in the additional column. Select multiple values: No		
Data type: List			
Measurement unit: Category	Allowed values:		
	Acres		
	Linear feet		
Logics Decroped if up to (Increased with Bits	Other (specify) Populated Vec		
Logic: Respond if yes to 'Improved wildlife habitat'	• Other (specify) Required: Yes		

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

CSAF Practice Sub-questions

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

Table 11. Follow-on questions for select CSAF practices

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

		Coal
		Diesel
		Electricity
		Gasoline
	en la seconda de la compañía de la c	Kerosene
	Fuel type before installation	Liquified petroleum gas (LPG)
		Natural gas
		Propane
		Wood
		Other (specify)
	Fuel amount before installation	0-1,000,000
		Cubic feet (natural gas)
	Fuel amount unit before	Gallons (diesel, gasoline, propane, LPG, kerosene
	installation	Kilowatt-hours (electricity)
	Installation	Pounds (wood, coal)
Combustion System	<u></u>	Other (specify)
Improvement (CPS 372)		Coal
		Diesel
		Electricity
		Gasoline
	Fuel type after installation	Kerosene
	ruei type arter installation	Liquified petroleum gas (LPG)
		Natural gas
		Propane
		Wood
		Other (specify)
14	Fuel amount after installation	0-1,000,000
		Cubic feet (natural gas)
	Fuel amount unit after	Gallons (diesel, gasoline, propane, LPG, kerosene
	installation	Kilowatt-hours (electricity)
	Installation	Pounds (wood, coal)
		Other (specify)
		Brassicas
Conservation Cover	Species category (select most	Grasses
(CPS 327)	common/extensive type if	Legumes
(0,0027)	using more than one)	Non-legume broadleaves
		Shrubs

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		Brassica
		Broadleaf
	Conconsistion aron tune	Cool season
	Conservation crop type	Grass
		Legume
		Warm season
		Added perennial crop
@ NYR 582 \$5 700 mil	Change implemented	Reduced fallow period
Conservation Crop Rotation	19	Both
(CPS 328)		Conventional (plow, chisel, disk
		No-till, direct seed
		Reduced till
	Conservation crop rotation tillage type	Strip till
		None
		Other (specify)
	Total conservation crop rotation length in	other (speeny)
	days	1-120
12 12 1428 at a 14953	Strip width (feet)	1-100
Contour Buffer Strips (CPS		Grasses
332)	Species category	Forbs
		Mix
		Brassicas
	Species category (select most	Forbs
	common/extensive type if using more	Grasses
	than one)	Legume
		Non-legume broadleaves
	N.	Grazing
C (CDC 240)	Cover crop planned management	Haying
Cover Crop (CPS 340)		Termination
	1	Burning
		Herbicide application
	Net 13 15 521 1311 12	Incorporation
	Cover crop termination method	Mowing
		Rolling/crimping
		Winter kill/frost
		Grass
		Grass legume/forb mix
Critical Area Planting (CPS	Species category (select most	Herbaceous woody mix
342)	common/extensive type if using more	Perennial or reseeding
5721	than one)	Shrubs
		Trees
	Crude protein (percent)	0-100
	Fat (percent)	0-100
20 5 55 Contraction		Chemical
Feed Management (CPS 592)		
	Feed additives/supplements	Edible oils/fats
		Seaweed/kelp
		Other (specify)
	Species category (select most	Forbs
Field Border (CPS 386)	common/extensive type if using more	Grasses
Their border (cr 5 560)	than one)	Mix Shrubs

	Strip width (feet)	20-1,000
	Spacing catogony (coloct most	Forbs
Filter Strip (CPS 393)	Species category (select most	Grasses
	common/extensive type if using	Mix
	more than one)	Shrubs
		Forest
		Multi-story cropping
Forest Farming (CPS 379)	Land use in previous year	Pasture/grazing land
220		Row crops
		Other agroforestry
		Maintain or improve forest carbon stocks
		Maintain or improve forest health and
		productivity
		Maintain or improve forest structure and
Forest Stand	7 7 7 7 F	composition
Improvement (CPS 666)	Purpose for implementation	Maintain or improve wildlife, fish, and
anananan anan anan anan		pollinator habitat
		Manage natural precipitation more efficient
		Reduce forest pest pressure
		Reduce forest wildfire hazard
-	Species category (select most	Flowering Plants
Grassed Waterway (CPS	common/extensive type if using	Forbs
412)	more than one)	Grasses
	Species category (select most	Grasses
	common/extensive type if using	Shrubs
Hedgerow Planting (CPS	more than one)	Trees
422)	Species density (number of trees planted per acre)	1-10,000
	Canalas astarany (salast most	Forbs
	Species category (select most	Grasses
Herbaceous Wind	common/extensive type if using	Mix
Barriers (CPS 603)	more than one)	Shrubs
barriers (CF3 003)	Barrier width (feet)	1-1,000
	Number of rows	1-100
	100-01-000-0000-0000-000-0000000	Gravel
		Natural
Mulching (CPS 484)	Mulch type	Synthetic
Mulching (CPS 484)	Mulen type	Synthetic Wood

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

Range Planting (CPS 550)	Species category (select most common/extensive type if using more than one)	Forbs Grasses Legumes Shrubs Trees
Residue and Tillage Management – No-till (CPS 329)	Surface disturbance	None Seed row only
Residue and Tillage Management – Reduced Till (CPS 345)	Surface disturbance	None Seed row/ridge tillage for planting Shallow across most of the soil surface Vertical/mulch
Riparian Forest Buffer (CPS 391)	Species category (select most common/extensive type if using more than one)	Coniferous trees Deciduous trees Shrubs
	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
Stripcropping (CPS 585)	Strip width (feet)	1-1,000
	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 (CPS 612)	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
Vegetative Barrier (CPS 601)	Species category (select most common/extensive type if using more than one)	Grasses Grass forb mix Grass legume mix
001)	Barrier width (feet)	3-1,000

		Chemical (e.g., salts, polymers)
	Separation type	Mechanical (e.g., screens, presses)
Waste Separation Facility	 Construction of the second state state is a second state state of the second state stat State state stat State state st	Settling basin
(CPS 632)		Bedding
	Most common use of solids	Field applied
		Other (specify)
		Aerobic lagoon
		Anaerobic digester (complex mix) with
		energy generation
		Anaerobic digester (plug flow) with
		energy generation
		Anaerobic lagoon
		Composting
		Covered lagoon (no energy generation
		or flaring)
Waste Storage Facility (CPS	Waste storage system prior to installing your waste storage facility	Covered lagoon with energy generation
313)		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
		Biological
Waste Treatment (CPS 629)	Treatment type	Chemical
		Mechanical
		Aerobic lagoon
		Anaerobic digester (complex mix) with
		energy generation
		Anaerobic digester (plug flow) with
		energy generation
		energy generation Anaerobic lagoon
		Anaerobic lagoon
		Anaerobic lagoon Composting
		Anaerobic lagoon Composting
	Waste storage system prior to	Anaerobic lagoon Composting Covered lagoon (no energy generation or flaring)
		Anaerobic lagoon Composting Covered lagoon (no energy generation or flaring) Covered lagoon with energy generatio
Waste Treatment Lagoon	Waste storage system prior to installing waste treatment lagoon	Anaerobic lagoon Composting Covered lagoon (no energy generation or flaring) Covered lagoon with energy generatio Covered lagoon with flaring
Waste Treatment Lagoon (CPS 359)		Anaerobic lagoon Composting Covered lagoon (no energy generation or flaring) Covered lagoon with energy generatio Covered lagoon with flaring Daily spread
Waste Treatment Lagoon (CPS 359)		Anaerobic lagoon Composting Covered lagoon (no energy generation or flaring) Covered lagoon with energy generatio Covered lagoon with flaring Daily spread Deep bedding pack
NY 1991 10~ HOA - 11 방송에서 방송 방송 방송 방송 가지 아파 가지 않는 것이다.		Anaerobic lagoon Composting Covered lagoon (no energy generation or flaring) Covered lagoon with energy generatio Covered lagoon with flaring Daily spread Deep bedding pack Deep pit
NY 1991 10~ HOA - 11 방송에서 방송 방송 방송 방송 가지 아파 가지 않는 것이다.		Anaerobic lagoon Composting Covered lagoon (no energy generation or flaring) Covered lagoon with energy generatio Covered lagoon with flaring Daily spread Deep bedding pack Deep pit Dry lot
NY 1991 10~ HOA - 11 방송에서 방송 방송 방송 방송 가지 아파 가지 않는 것이다.		Anaerobic lagoon Composting Covered lagoon (no energy generation or flaring) Covered lagoon with energy generatio Covered lagoon with flaring Daily spread Deep bedding pack Deep pit Dry lot Dry stacking/solid storage
NY 1991 10~ HOA - 11 방송에서 방송 방송 방송 방송 가지 아파 가지 않는 것이다.		Anaerobic lagoon Composting Covered lagoon (no energy generation or flaring) Covered lagoon with energy generation Covered lagoon with flaring Daily spread Deep bedding pack Deep pit Dry lot Dry stacking/solid storage Pasture/Range/Paddock
NY 1991 10~ HOA - 11 방송에서 방송 방송 방송 방송 가지 아파 가지 않는 것이다.		Anaerobic lagoon Composting Covered lagoon (no energy generation or flaring) Covered lagoon with energy generatio Covered lagoon with flaring Daily spread Deep bedding pack Deep pit Dry lot Dry stacking/solid storage Pasture/Range/Paddock Poultry with bedding
NY 1991 10~ HOA - 11 방송에서 방송 방송 방송 방송 가지 아파 가지 않는 것이다.		Anaerobic lagoon Composting Covered lagoon (no energy generation or flaring) Covered lagoon with energy generation Covered lagoon with flaring Daily spread Deep bedding pack Deep pit Dry lot Dry stacking/solid storage Pasture/Range/Paddock Poultry with bedding Poultry without bedding (e.g., high rise
NY 1991 10~ HOA - 11 방송에서 방송 방송 방송 방송 가지 아파 가지 않는 것이다.	installing waste treatment lagoon	Anaerobic lagoon Composting Covered lagoon (no energy generation or flaring) Covered lagoon with energy generation Covered lagoon with flaring Daily spread Deep bedding pack Deep pit Dry lot Dry stacking/solid storage Pasture/Range/Paddock Poultry with bedding Poultry without bedding (e.g., high rise Slurry tank/basin
NY 1991 10~ HOA - 11 방송에 전망 방송 방송 방송 가지 아파 가지 않는 것이다.		Anaerobic lagoon Composting Covered lagoon (no energy generation or flaring) Covered lagoon with energy generation Covered lagoon with flaring Daily spread Deep bedding pack Deep pit Dry lot Dry stacking/solid storage Pasture/Range/Paddock Poultry with bedding Poultry with bedding Poultry without bedding (e.g., high rise Slurry tank/basin Yes
NY 1991 10~ HOA - 11 방송에 전망 방송 방송 방송 가지 아파 가지 않는 것이다.	installing waste treatment lagoon	Anaerobic lagoon Composting Covered lagoon (no energy generation or flaring) Covered lagoon with energy generation Covered lagoon with flaring Daily spread Deep bedding pack Deep pit Dry lot Dry stacking/solid storage Pasture/Range/Paddock Poultry with bedding Poultry without bedding (e.g., high rise Slurry tank/basin

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

Appendix A: Climate-smart Agriculture and Forestry Practices

All NRCS Practice Standards (not limited to climate-sma 309, Agrichemical Handling Facility	<u>rt practices)</u> 390, Riparian Herbaceous Cover
이 이 것 같은 것	
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 Gypsum Products	428B, Irrigation Water Conveyance, Ditch and Canal Lining,
334, Controlled Traffic Farming	Flexible Membrane
336, Soil Carbon Amendment	428C, Irrigation Water Conveyance, Ditch and Canal Lining,
338, Prescribed Burning	Galvanized Steel
340, Cover Crop	430, Irrigation Pipeline
342, Critical Area Planting	432, Dry Hydrant
345, Residue and Tillage Management, Reduced Till	436, Irrigation Reservoir
348, Dam, Diversion	441, Irrigation System, Microirrigation
350, Sediment Basin	442, Sprinkler System
351, Well Decommissioning	443, Irrigation System, Surface and Subsurface
353, Monitoring Well	447, Irrigation and Drainage Tailwater Recovery
355, Groundwater Testing	449, Irrigation Water Management
356, Dike and Levee	450, Anionic Polyacrylamide (PAM) Application
359, Waste Treatment Lagoon	453, Land Reclamation, Landslide Treatment
360, Waste Facility Closure	455, Land Reclamation, Toxic Discharge Control
362, Diversion	457, Mine Shaft and Adit Closing
366, Anaerobic Digester	460, Land Clearing
367, Roofs and Covers	462, Precision Land Forming and Smoothing
368, Emergency Animal Mortality Management	464, Irrigation Land Leveling
371, Air Filtration and Scrubbing	466, Land Smoothing
372, Combustion System Improvement	468, Lined Waterway or Outlet
373, Dust Control on Unpaved Roads and Surfaces	472, Access Control
374, Energy Efficient Agricultural Operation	484, Mulching
375, Dust Management for Pen Surfaces	490, Tree/Shrub Site Preparation
376, Field Operations Emissions Reduction	500, Obstruction Removal
378, Pond	511, Forage Harvest Management
379, Forest Farming	512, Pasture and Hay Planting
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380, Windbreak/Shelterbelt Establishment and Renovation	516, Livestock Pipeline
381, Silvopasture	520, Pond Sealing or Lining, Compacted Soil Treatment
382, Fence 383, Fuel Break	521, Pond Sealing or Lining, Geomembrane or
DOD FUELBLEAK	Geosynthetic Clay Liner
384, Woody Residue Treatment	521A, Pond Sealing or Lining, Flexible Membrane
	521A, Pond Sealing or Lining, Flexible Membrane 521B, Pond Sealing or Lining, Soil Dispersant 521C, Pond Sealing or Lining, Bentonite Sealant

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

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

737, Reduced Water and Energy Coffee Conveyance System, interim

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

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

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

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

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

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

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

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

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

Partnerships for Climate-Smart Commodities Additional Specific Terms and Conditions February 2023

I. Overarching Statement

The following award terms and conditions are applicable to Partnerships for Climate-Smart Commodities agreements and are in addition to the USDA FPAC General Terms and Conditions. The award recipient must abide by all terms of this grant including, but not limited to, the General Terms and Conditions, the terms in the Funding Opportunity and associated Frequently Asked Questions, and this addendum. The recipient must also deliver on the planned objectives in the project narrative and budget narrative associated with this grant.

II. Eligibility and Highly Erodible Lands and Wetlands Compliance

In order to be eligible for an incentive payment as a part of the Partnerships for Climate-Smart Commodities, a producer must:

- Establish Farm Records with the Farm Service Agency (FSA) (have farm, tract, and field numbers in place);
- Complete an AD-2047 (Customer Data Worksheet to facilitate the collection of customer data for Business Partner Record);
- Certify highly erodible land conservation (HEL) and wetland conservation (WC) compliance via Form AD-1026, Highly Erodible Land Conservation (HELC) and Wetland Conservation (WC) Certification; and
- Certify that they are not a foreign person or entity.

Farm, tract, and field numbers are required for the producer, and ultimately the Partnerships for Climate-Smart Commodities recipient, to report climate-smart practice implementation to USDA, as well as to certify and maintain HELC/WC compliance. This will require that some producers who do not already have these numbers, like perennial crop growers or feedlots, establish these records with USDA's FSA. Farm, tract, field numbers, producer name, and Core Customer I.D. (CCID) will be provided by the recipient to the National Program Officer as a part of routine grant reporting. Recipients must ensure that producers receiving financial assistance or incentives through this project use the same name as is included in the relevant FSA Business File for that Farm ID in any contracts or similar documentation kept by the recipient.

Producers are not bound by the payment limitations and the adjusted gross income (AGI) limitations that are in place for other USDA programs.

In order to demonstrate HELC/WC compliance for Partnerships for Climate-Smart Commodities incentive payments, producers will need to request a copy of their subsidiary print from their

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

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

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

III. Other Environmental and Cultural Resources Reviews

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

- 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.