

U.S. Department of Agriculture Natural Resources Conservation Service

NOTICE OF GRANT AND AGREEMENT AWARD

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1. Award Identifying Number	2. Amendr	nent Number	3. Award /Project Peri	od	4. Type of award instrument:	
NR243A750004G005			Date of Final Signat 11/01/2028	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			QUIVIRA COALITION 1413 2ND ST STE 1 SANTA FE NM 87505-3435 UEI Number / DUNS Number: J3GDAEH6J8N4 / 033141388 EIN:			
7. NRCS Program Contact	8. NRCS A Co	Administrative ontact	9. Recipient Program Contact		10. Recipient Administrative Contact	
Name: GREGORIO Cruz- Gonzalez	Name: Ma Phone: (80	rnie Wilson)1) 844-2916	Name: Eva Stricker Phone: (505) 393-535	4	Name: Carrie Armbrecht Phone: (732) 233-7978	
(b)(6)						
11. CFDA	12. Authority		13. Type of Action		14. Program Director	
10.937	15 USC 71	l4 et seq	New Agreement		Name: Eva Stricker	
					(b)(6)	
15. Project Title/ Description: Expands markets for climate-smart grassfed beef, sheep and dairy in AZ, CO, NM, TX and Tribal areas and supports farmer and rancher 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		\$3,535,886.00		\$197,670.00		
Additional funds total		\$0.00		\$0.00		
Grand total		\$3,535,886.00		\$197,670.00		
18. Approved Budget						

Personnel	\$1,291,275.00	Fringe Benefits	\$387,381.00		
Travel	\$55,305.00	Equipment	\$0.00		
Supplies	\$35,310.00	Contractual	\$776,000.00		
Construction	\$0.00	Other	\$990,615.00		
Total Direct Cost	\$3,325,370.00	Total Indirect Cost	\$210,516.00		
		Total Non-Federal Funds	\$197,670.00		
		Total Federal Funds Awarded	\$3,535,886.00		
		Total Approved Budget	\$3,733,556.00		
This agreement is subject to applicable USDA NRCS statutory provisions and Financial Assistance Regulations. In accepting this award or amendment and any payments made pursuant thereto, the undersigned represents that he or she is duly authorized to act on behalf of the awardee organization, agrees that the award is subject to the applicable provisions of this agreement (and all attachments), and agrees that acceptance of any payments constitutes an agreement by the payee that the amounts, if any, found by NRCS to have been overpaid, will be refunded or credited in full to NRCS.					

Name and Title of Authorized Government Representative	Signature	KATINA Digit KAT HANSON Date 08:2	itally signed by FINA HANSON e: 2023.11.06 27:34 -06'00'	Date	
Name and Title of Authorized Recipient Representative Sarah Wenzel-Fisher Executive Director	Signature	Sarah Weutze	el-Fisher	Date	2023-11-02

NONDISCRIMINATION STATEMENT

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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 Quivira Coalition (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 \$3,733,556.00

TOTAL FEDERAL FUNDS \$3,535,886.00 PERSONNEL \$1,173,886.00 FRINGE BENEFITS \$352,165.00 TRAVEL \$50,277.00 EQUIPMENT \$0.00 SUPPLIES \$32,100.00 CONTRACTUAL \$735,000.00 CONSTRUCTION \$0.00 OTHER \$669,780.00 (Included Producer Incentives \$312,162.00) TOTAL DIRECT COSTS \$3,325,370.00 INDIRECT COSTS \$210,516.00

TOTAL NON-FEDERAL FUNDS \$197,670.00 PERSONNEL \$0.00 FRINGE BENEFITS \$0.00 TRAVEL \$0.00 EQUIPMENT \$0.00 SUPPLIES \$0.00 CONTRACTUAL \$179,700.00 CONSTRUCTION \$0.00 OTHER \$0.00 (Included PRODUCER INCENTIVES \$0.00) TOTAL DIRECT COSTS \$0.00 INDIRECT COSTS \$17,970.00

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

Responsibilities of the Parties:

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

RECIPIENT RESPONSIBILITIES

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

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

project participants, including data collection performed by subrecipients.

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

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

Performance Reports: Quarterly

SF425 Financial Reports: Quarterly

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

Expected Accomplishments and Deliverables

See attached Benchmarks Table and associated Project Narrative.

Resources Required

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

Milestones

See attached Benchmarks Table and associated Project Narrative.

GENERAL TERMS AND CONDITIONS

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

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

Withheld pursuant to exemption

(b)(4)

i. Executive Summary

Quivira Coalition: 1413 Second St. Suite 1, Santa Fe, NM 87505. 505-820-2544 PI: Dr. Eva Stricker, Director of the Carbon Ranch Initiative. eva@quiviracoalition.org

Project Partners

Production contractors: Reunity Resources *Marketing contractors:* Southwest Grassfed Livestock Alliance, Good Meat Project

Compelling need for the project

According to the FAO, on a commodity-basis, beef is responsible for the most climate change impact, contributing 41 percent of the agricultural sector's overall GHG emissions.

Current commodity beef and other livestock supply chains often require animals to travel thousands of miles from pasture to feedlot, to processor, to retailer, making significant contributions to the sector's total emissions. The food system throws away 30-40% of the food produced in the US, which emits GHGs equal to the annual CO₂ emissions of 42 coal-fired power plants (Buzby 2002). What if these big problems, organized in a different way, could actually be part of the climate change solution? What would happen if we took food waste out of landfills and nuisance wood out of wildfire risk, composted or charred it, added it to rangeland, increased forage production, captured carbon, helped ranchers finish their animals on grass, and directly marketed this meat to people who lived close to where the meat was raised? We believe that these steps can create a climate smart livestock production and supply model in the Southwest.

At a global scale, rangelands have lost soil carbon (Sanderman et al. 2017) but climatesmart management may help reverse the trend and build soil health while maintaining productivity to provide protein. Grassland pasture and range make up 302.8 million acres of the Intermountain West, most of which is grazed by livestock. Some of this land has been improperly grazed such that it requires active management to recover. However, with climate change producing higher temperatures and prolonged drought (Barnes et al. 2021), even livestock producers who have focused on sustainability face degradation of vegetation cover and soil processes and thus may be forced to sell live animals into commodity supply chains because they do not have the forage to support finishing for direct market sales. Land stewards need cost-effective land management tools that can both promote resilience in the face of climate change and improve productivity in normal years. Even at low rates of sequestration, the large rangeland area could make a significant contribution to climate change mitigation through enhanced C-sequestration (Paustian et al. 2016).

Various entities have investigated techniques such as organic matter applications and found promising results in forage quality and quantity, hydrology, and long-term carbon sequestration. While there are techniques for producing organic matter amendments using agricultural waste, these methods have not been widely adopted in rangelands,

but have the capacity to become a value-added product for use on-ranch or to sell. There have been few projects focused on the efficacy of organic matter applications on dryland range as ways to a) enable ranchers to use their time and money to manage organic waste efficiently and remain competitive, b) reduce dependencies on inorganic fertilizers, if applicable, 3) improve ecosystem and animal health and productivity, 4) help mitigate climate change, and 5) market organic amendments and grass-finished meat to local food systems. We aim to train producers to assess outcomes with affordable monitoring strategies as well as evaluate changes to soil carbon stocks and greenhouse gas savings in all aspects of management to help them make better, more targeted decisions about how a waste-to-plate systems approach can reduce overall carbon footprint and increase economic viability.

To accomplish these ecological and economic goals, we will leverage our network of producers and technical support collaborators. We will advertise for and select ten producers per year for five years, prioritizing historically underserved producers. These producers will work with compost and biochar production experts to: assess needs and opportunities for on-ranch production; help secure supplies needed for production; implement the practice; and help troubleshoot for the first year. The amendments will then be deployed on an average of ten acres per operation, prioritized to address degraded areas. Quivira staff will help implement and monitor the ecological outcomes. Producers will work with grass finishing experts to develop grazing plans for finishing animals on ranch. Finally, they will work with meat marketing experts to successfully, directly sell their meat to consumers in their regions. Participating ranchers and other supply chain stakeholders such as researchers, processors, eaters, restaurateurs, farm to school programs and others will be invited to working groups annually to gather feedback and suggestions for iterative improvements to this supply chain, with a focus on feasibility and affordability for livestock producers. An evaluator (to be hired) will compile costs and carbon accounts in years 2-5 to widely report on differences in costs and prices and GHG benefits for the producers. In years 3 and 4, we will collaborate with the Good Meat Project on a trade marketing campaign to collectively promote lowcarbon meat across the Southwest. Producers will be supported at every step from waste to plate.

Approach to minimize transaction costs associated with project activities

The Quivira Coalition is a small (20 staff) non-profit with the mission to foster resilience on working lands, and we work through education, innovation, and collaboration with ranchers, farmers, government and Tribal agencies, and land stewards of all stripes. We have Operations staff and systems to enable efficient personnel and financial management. The Quivira Coalition has managed numerous federal grants and have successfully reported and performed the work required for these projects: EPA 319 funding from the NM Environment Department for over a decade, currently managing three New Mexico Conservation Innovation Grants, an FSA Outreach Education and Technical Assistance for Farm Service Agency Programs, Functions and Activities, as well as a Beginning Farmer Rancher Grant to train ranchers to be regenerative agriculture mentors to the next generation. We work with Jitasa, an accounting firm, to ensure we adhere to the reporting requirements of grants of this scope. Our board annually reviews both financial and procurement policies to ensure we are aligned with federal grant accounting guidelines.

Approach to reduce producer barriers to implementing CSAF practices

- Provide education, supplies, technical support, and a stipend to offset the costs of added work associated with setting up and monitoring organic amendment production and deployment.
- Provide education and technical support for developing business and marketing strategies to begin or increase sales of meat into local and regional markets. We will supply technical support through schedulable virtual office hours for marketing and business planning so these activities can happen when it's convenient to the rancher.
- Create activities which connect producers to one another, establishing a support network and community of practice.
- Publish open-source guides covering topics such as: organic amendment production and application on rangeland; soil health management; and direct marketing meat translated into relevant languages.
- Hire an evaluator to compile and evaluate the total costs and carbon accounting, from waste to plate, for 50 operations to provide best-practice guidelines for livestock producers to maximize direct-to market, climate smart meat.

Geographic Focus

New Mexico is this project's primary focus because it faces numerous ecological and socioeconomic challenges. New Mexico has the highest amount of bare ground in the country, and the amount of bare ground is increasing faster than anywhere else in the country (NRCS 2018). The warming climate is reducing snowpack and shifting patterns of precipitation which in turn affects surface water availability for agriculture. Communally-run acequia (ditch) communities are already issuing warnings that there may be only two waterings available for their parciantes (stakeholders) this summer. The frequency, severity, and extent of wildfires is likely to increase (and we are currently experiencing the state's largest wildfire on record: the Calf Canyon - Hermit's Peak fire). These harmful effects are and will be disproportionately felt by the state's Tribal and Land Grant communities, many of whom must haul water to meet their daily needs (EPA 2016). Tribal communities are 11% of the population, and Hispanic or Latinx make up 49% of the population. Land tenure is extremely diverse, with private, Tribal, federal, and state ownership and leases as well as Land Grant communities. According to a 2019 study, 44% of agricultural revenues in New Mexico come from beef cattle (Zaied et al. 2019), and 12% of the state's economy is supported by agriculture. Of all food produced in the state, 97% is exported (Shuman 2010), meaning that there is ample opportunity for shorter supply chains which increase profitability for ranchers. Finally, the state is the second-most impoverished in the US. The average reported income of agricultural producers in NM is less than \$20,000 annually. Thus, pilot projects conducted in NM affect many traditionally underserved communities, and developing best practices in an extremely diverse state can serve as a path forward for other areas in the Southwest. While we focus on New Mexico, we also are equipped and excited to

work with adjacent, ecologically and culturally similar areas in southern Colorado, western Texas, and eastern Arizona.

Project management capacity of partners

Quivira has key experience that enables us to successfully complete the project proposed. Quivira is primarily an education organization and thus we have decades of experience providing hundreds of in-field, participatory, active learning opportunities for ranchers, farmers, and other technical service providers, as well as experience building technical guides appropriate for those audiences. We believe that the best way to learn regenerative practices is through hands-on implementation on working lands and peer-to-peer discussions and activities. We have a library of technical guides and specifically for this project, we can leverage our Soil Health Workbook (2020), Rural Dryland Compost (2021), and Biochar in the Southwest (to release April 2023; all will be translated into Spanish by June 2023) to provide consistent terminology and guidance for production and evaluation by producers.

The Carbon Ranch Initiative was established in 2019 and has since initiated and supported research and on-farm trials of organic amendments production and/or deployment on 15 operations. We (along with partners Reunity Resources, Trollworks, and Wilson Biochar) have trained over 80 people in medium to large scale aerated static pile composting (appropriate for drylands due to low water needs) with one demonstration site set up, and over 60 people in biochar production using kilns with two demonstration sites. We have explored questions of a) optimal amount of compost to add and timing during the year, b) comparisons of compost, biochar, and bale grazing, and c) the utility of compost, mulch, and/or seeding to accelerate erosion control and hydraulic recovery. Ranchers at demonstration host sites were concerned that compost. biochar, and bale grazing would be ineffective because it would wash or blow away, but everyone reported that they could still find the amendment material on the ground after several months. We were also concerned about enhancing the environment for noxious or invasive species, but no one has reported that as being a problem; while weedy forbs such as kochia or tumbleweed were common on compost plots, they were already present on the landscape and no new noxious species have been identified so far. Instead, we have largely noted promising results. Compost applications of up to 1" depth have increased aggregate stability and infiltration by up to 30% and 5 minutes per one inch, respectively.

Ranchers have noted that cattle seem to preferentially graze in compost plots, and that snow persists longer on the compost plots than adjacent control areas, suggesting increased forage quality and water retention in the soil. A pilot project measuring greenhouse gas emissions showed increased uptake of methane in compost plots, and uptake of nitrous oxide in biochar plots (Table 1). While these are not yet peer-reviewed results, we are ready to begin expanding these trials into new places to further understand where and when they can build soil health on degraded rangelands.

Partners

Our existing partner Reunity Resources (Subaward) will provide technical support for compost production and potential contractors Wilson Biochar and Trollworks will provide technical support for biochar production. Thus we have the connections to partners and background knowledge to begin to scale these pilot studies up to more operations.

Additionally, will expand contactors as well as develop relationships with other regionally-appropriate organizations and experts as we iteratively improve. Ideally, we will train producers in the region of the host organizations and can in the future contract directly with them, increasing regional capacity and therefor improving the sustainability of the project.

We will leverage long-term connections with Southwest Grassfed Alliance (SWGLA), the Good Meat Project (Subawards), and other individuals and organizations to build marketing toolkits and provide direct technical support for producers wanting to market the waste-to-plate climate smart meat. We have co-hosted the Regenerate conference with SWGLA for 20 years. We also have verbal interest from the Intertribal Agriculture Council to support this project with their Tribal partners and a long history of working with grazing management consultant Kurt Gadzia and technical supporters from Holistic Management International. Their expertise in the marketing and consumer side complements the Carbon Ranch Initiative's existing experience and capabilities with technical support for the in-field activities and evaluation on the production side.

Other stakeholders and supporters include researchers (Colorado State University) and agencies (State Land Office) that will provide feedback at working groups for iterative improvement and tracking outcomes for the evaluator's project reports. Several producers who were involved in the pilot projects of deployment of organic amendments are interested in scaling up to larger areas, demonstrating that producers find sufficient value to expand this project.

We summarize the activities, personnel responsible, and time scale in Table 2. Table 1. In 2021, we conducted a small pilot study with Los Alamos National Labs at sites across New Mexico using 2 minute LiCor measurements on our small-scale compost production and compost and biochar addition plots and found that there were some instances of GHG sequestration or reduced emissions (italics) relative to control plots. Although these were not estimated to result in net sequestration when converted to CO₂ equivalents, this snapshot shows that organic amendments are promising climate smart management tools even in drylands under drought conditions.

Activity	N of responses	CO ₂ (umol m ² s ²)	CH ₄ (umol m ² s ²)	N ₂ O (umol m ² s ²)
Compost production	5 piles	-79 (28)	3.2x10 ⁻³ (2.4x10 ⁻³)	-2.3x10 ⁻⁵ (1.9x10 ⁻⁵)
¹ / ₄ in compost addition	6 sites, 30 replicates	-3.3 (5.2)	8.6x10 ⁻⁴ (4.7x10 ⁻⁴)	$\begin{array}{c} 1.3 \times 10^{-5} \\ (4.0 \times 10^{-5}) \ (n=6) \end{array}$
Control plots	6 sites, 19 replicates	-2.9 (1.7)	8.9x10 ⁻⁴ (9.3x10 ⁻⁴)	3.1x10 ⁻⁵ (3.1x10 ⁻⁵) (n = 6)
Biochar addition	1 site, 3 replicates	1.6 (0.44)	-3.0x10 ⁻⁵ (1.2x10 ⁻⁴)	5.1x10 ⁻⁵ (1.5x10 ⁻⁵)

ii. Plan to pilot climate-smart agriculture and/or forestry practices on a large scale

Waste to Plate Summary:

- Produce biochar and compost according to NRCS approved practices (317, E384135Z), potentially using wood waste from clearing brush (384) or forest (666)
- Apply biochar and compost on degraded rangeland to enhance ecological function, carbon sequestration, and forage production according to NRCS practices (336)
- Empower producers to finish livestock on grass, including using prescribed grazing (528)
- · Empower producers to direct market the meat they produce
- Build robust and resilient regional meat supply chains the deliver high quality meat to consumers and return more money to producers

Build capacity for climate-smart commodities

Commodities supported in this project are likely to include:

- Meat
- Dairy
- Wool
- Hides and skins
- Manure and/or offal (transformed into compost)
- Value added for forest products (for example, making biochar out of smaller branches not usable for firewood)

Promote several carbon-smart agriculture practices:

We will leverage the Woody Residue Treatment Conservation Practice (384) and/or Forest Stand Improvement (666) which enables ranchers and farmers to reduce nuisance wood that promotes risk of wildfire and with Conservation Enhancement Activity E384135Z that promotes biochar production. Alternatively, chipped nuisance wood, manure, food waste, and other organic waste can be used for composting, where we could leverage the Composting Facility Practice (317) and support implementation of aerated static piles which require no mechanical turning. We will provide technical support for pasture management aligned with Prescribed Grazing (528). Finally, we will promote the Practice 336 Soil Carbon Amendment that promotes effective use of compost, biochar, and other regionally-appropriate carbon amendments such as wood chips. While manure is naturally deposited in many parts of rangelands and has demonstrated benefits, and while woody mulch or branch mulch is also useful, we will primarily focus on processed, "value added" amendments of compost and biochar due to their climate smart management and marketing implications.

We will work directly with the rancher to ensure the practice is being implemented according to the NRCS practice standard or our Quivira or subawardee plan templates. We will then document how our implementation meets practice standards including a field visit, photo, and mapping the extent of the context.

Organic amendment production:

Proper waste management is key to reducing GHG emissions. Benefits of compost and biochar production include reduced greenhouse gas emissions during production and reduced transportation costs of waste materials to a landfill. However, the diversion rate for all recyclable materials in NM (including organic waste that could be composted) is 19 percent (Snider 2015), which highlights the enormous potential to increase diversion. Ultimately, waste that becomes compost or biochar yields a value-added product for an agricultural operation which can be used or sold.

Compost: In rural communities, organic materials account for up to 60 percent of total waste produced (Mohee 2007) in the forms of manure from livestock operations, woody waste from brush removal or forest thinning, animal bedding, crop residues, yard wastes such as leaves and grass clippings, and kitchen scraps. Sending organic waste to landfills results in the highest greenhouse gas emissions scenario when compared to composting and anaerobic digestion with gas or heat capture (Nordahl et al., 2020). Compost is formed from the transformation of organic feedstocks by microbes into a novel, chemically stable, and microbial-rich form of organic material. Subawardee Reunity Resources has years of experience optimizing aerated static pile composting for agricultural operations, balancing water input with community benefits of composting.

Biochar: Dealing with waste woody material from overcrowded forests or shrub encroachment is an activity that many agricultural producers must do, both to reduce risk and build productivity. Leaving these materials standing can increase the risk of wildfire, especially with increased heat and drought in the Intermountain West. Wildfire can damage homes and threaten livelihoods (more than \$12.9 billion in losses in 2018; Badger and Foley 2019).

Wildfire additionally affects air quality and is harmful to public health, especially to people with pre-existing conditions such as asthma or cardiovascular issues (CDC). Finally, wildfire releases carbon stored in tree and shrub biomass into the atmosphere, accelerating greenhouse gas accumulation in the atmosphere and contributing to

climate change; In 2020, wildfires in California have released more CO₂ than some countries' annual emissions (Grandoni 2020, *based on data from the Global Fire Emissions Database, globalfiredata.org*).

Fortunately, reducing the density in overgrown forests or on working landscapes can dramatically reduce the likelihood of catastrophic wildfire (Wiedinmyer and Hurteau 2010). Forest thinning as a restoration strategy may help preserve biodiversity, sequester carbon, and reduce air pollution (reviewed in Shrenk et al. 2020). Biochar is an important emerging tool for productively dealing with organic wastes such as thinned woods. Biochar is woody debris that has been burned in the absence of oxygen, preventing conversion to CO₂ and retention of complex, stable carbon compounds and reducing particulates and other pollution from fire.

Biochar often must be treated with nutrients of microbial inoculant (including compost) to ensure that it doesn't chemically compete with desired plants for nutrients. Contractors Wilson Biochar and Trollworks have decades developing technology and a process to produce biochar in-field or paired with heat production and provide in-field and remote technical support and education.

Organic amendment use for soil health and finishing animals on native range: While it is not economically or logistically feasible to treat entire ranches with organic amendments, emerging research supports the idea of "nucleation" of treatments that can then create seed and spore sources to spread out to adjacent areas (Michaels et al. 2020). Given the observations that cattle preferentially graze in compost addition plots (Ryals et al. 2016) is likely due to improved forage quality, well-planned amendments deployment may help managers move livestock around the landscape without fencing, water, or salt. Treating key areas on working lands with compost or biochar may have disproportionate effects on an operation.

Practices that align with multiple healthy soil principles, like deploying organic amendments, are likely to build soil carbon. Organic amendments are a way of addressing the "maximize soil cover," "minimize disturbance," and potentially "maximize soil biodiversity" healthy soil principles. Adding compost or inoculated biochar to the soil surface provides microbes and slow-release fertilizer, a stable carbon substrate to protect and house microbes, or a carbon source for decomposition, respectively, which may jump-start healthy microbial cycling. In turn, nutrients infiltrate the soil from the top without breaking up aggregates and other soil structures deeper in the soil profile, promoting healthy soil formation and promoting plant growth and healthy root systems. Healthy soil acts as a sponge for water, building resilience to drought or flooding and thus helping to mitigate harmful effects of climate change for producers. Healthy soil also may enhance stable carbon sequestration, helping to remove carbon from the air and help combat climate change on working lands.

Research has shown exciting potential for compost and biochar to restore physical structure and desirable chemical properties through carbon accumulation to degraded soils. The positive feedback of higher productivity, increased soil organic matter stocks,

and increased soil moisture (see below), leads to modeled projections that a single compost application increases soil C stocks compared to controls for several decades (Ryals et al. 2015). While evidence is limited from compost amendment studies on fluxes of CH₄ and N₂O, Ryals and Silver (2013) found that there were no significant treatment effects on soil CH₄ and N₂O emissions with compost additions. Biochar has been shown to increase soil water content at field capacity by up to 51% (Razzaghi et al. 2020), supporting water retention and plant productivity.

Marketing livestock finished on range regenerated by biochar and compost:

Currently technical support for direct marketing meat, particularly grassfed/finished meat, is scarce nationally and even more so regionally. The market landscape for meat producers has shifted since the beginning of the pandemic, as consumer purchasing habits have changed around grocery purchase decisions generally and around meat more specifically. Consumers increasingly look to online purchasing options for convenience and the capability to shop from home. Consumers also look more deeply at sources of their food.

During the pandemic, issues of inhumane work conditions at meat packing plants not only caused serious COVID outbreaks, they drew attention to the realities of conventional meat production, causing consumers to look for options closer to home and with transparency in supply chains.

The combination of these circumstances have changed the market opportunities for grassfed livestock producers. While consumer demand for grassfed beef and shorter supply chains has increased, most producers, especially in states like New Mexico with extremely limited processing, struggle to access the following:

- 1. Processing
- 2. The knowledge or capacity to develop new enterprises around direct wholesale or retail of meat rather than selling live animals.
- 3. The knowledge of or capacity (infrastructure) to shift to production methods and processing strategies optimized for direct meat sales.

On the other side of this equation, consumers — cooks at home, chefs in restaurants, institutional kitchens such as schools and senior centers — have limited resources on how to access local grassfed meat with shorter and more transparent supply chains. General resources exist online about purchasing, storing, and cooking with meat shares for households, but getting connected directly to ranchers is often challenging. We have not found a definitive guide geared towards restaurant chefs on whole animal purchase and utilization.

The sum of these challenges presents an opportunity to build upon the work of the Southwest Grassfed Livestock Alliance (SWGLA) and the Good Meat Project (GMP) to help develop viable local and regional supply chains for climate smart grassfed beef and other meat that use waste to build circular economies. This project will provide direct technical support to 10 producers per year to help them develop the tools and plans needed to finish animals on grass, optimize carcasses for their particular customer

base, and build the tools, such as an online shopping cart or a social media presence, to be able to sell into regional markets. To ensure more producers are served, SWGLA and the Good Meat Project will also develop a suite of tools including calculators, howto videos, and step-by-step guides so producers can find tools to fill marketing knowledge gaps. This project will also leverage the experience and expertise of the Good Meat Project to conduct a trade marketing campaign around climate smart grassfed beef in the Southwest to help bolster consumer engagement and purchasing.

SWGLA offers a series of business courses and direct technical assistance focused on the fundamentals of the supply chain, sales, marketing strategy, and tactics of grassfed meat operations. Courses are designed for both existing and potential meat businesses and dive into the details of what happens from the moment of harvest to selecting and marketing to various end-users and sales channels. Financial trainings include material on record-keeping and accounting, but primarily focus on enterprise analysis and important areas of knowledge such as carcass maximization, harvest and yield records, and cost of production. All courses and technical assistance are designed to empower both current and emerging grassfed beef producers to refine and deepen skills, as well as livestock producers not yet selling products directly.

Through education, networking, research, and advocacy, the GMP builds diverse supply chain coalitions, empowers change makers, and inspires consumers, farmers, chefs, butchers, and other food professionals to build and support healthy, resilient, responsible, and regional meat production systems. The Grassfed Alliance, a program of the GMP, recognizes a need for unified messaging and focus in the grassfed industry. The Grassfed Alliance was founded in 2018 with the mission to promote grassfed meat and dairy products that adhere to their ten Authentic Grassfed Principles. The Grassfed Alliance uses consumer research, trade promotion, market experimentation, and advocacy to advance the grassfed industry. As a new GMP program and Good Meat Coalition collaborator, the GFA now brings its close relationships with grassfed beef and dairy brands across the United States to the GMP. The Grassfed Alliance will work alongside and across our other programs, by leveraging the principles of grassfed, to promote sound stewardship of grassfed beef as well as other species, including pastured pork and poultry.

Plan to recruit and enroll underserved and small producers and landowners and provide financial assistance

We understand that any change in operational management is likely to incur a shortterm drop in productivity, often simply because the first attempt is not optimized in the way that the previous system had been. Our goal is to fund time, supplies, and technical supporters to compensate for the "dip". This will allow producers to invest in the expected long-term improvement in their operation's economic success through improved resilience and productivity due to increased soil health. This also should ensure sustainability of the project because inputs of supplies and technical support should not be ongoing but only and up-front cost. For producers, unfamiliar practices must be demonstrated in local, familiar context to enable evaluation of the true costs and benefits of adding organic material from formerly waste materials. In addition to ranchers' observation of forage production and livestock preferences for nutrient-rich forage, we want to promote the use of in-field and laboratory tests to monitor and evaluate soil health and carbon accumulation aboveground and belowground. We will cover the costs of the laboratory tests for the scope of this project as well as provide training on low-cost monitoring (see iii below). We will leverage our network of producers, grassroots organizations and agency contacts and our communication strategies optimized for outreach with rural producers (newspaper, radio, and flyers in public areas in addition to social media) to solicit applicants to receive technical support for production and/or use of organic amendments. We will additionally table at one regional producer-focused conferences per year such as the Cattlemen's Association gathering, the New Mexico Aceguia Association Congreso, the Intertribal Agriculture Council Annual conference, etc. both for recruiting applicants and, in years 2-5, for providing interim and final project results. We will evaluate applicants using a rubric that prioritizes socially disadvantaged producers, other underserved and small producers, and then people with strong community involvement. All applicants must be ready to finish and market livestock within 1 year of the application.

We will work with ten operations per year for five years and ask that each producer adds organic amendments to an average of ten acres (total 50 producers and 500 acres). Traditionally underserved producers have often been excluded from ownership of large land holdings; for example the traditionally underserved livestock producers we worked with in 2021 held an average of 3,500 acres, but this spread from 1, 18, and 67 acres to 7,800, 9000, and 10,000 acres. Thus an average of 10 acres treated with organic amendments represents a substantial impact to their operations, especially if spatially targeted to help move cattle across the landscape to assist with rotational grazing. The pasture planning will likely involve an average of 3,500 acres, expanding the scope of the project.

Each producer that hosts production/deployment will receive technical assistance from contractors as well as assistance from Quivira with logistics and monitoring (~200 hours per operation; value >\$20,000). Each producer will directly receive a \$1,925 stipend to support their time towards producing, deploying, monitoring, and communicating with technical support providers, host fees of \$500 to support the workshop, and \$2,050 of supplies. Each participant will also benefit from the Marketing tool kits (for organic amendments and for livestock products) and the trade campaign (value difficult to estimate, but if those items are simply divided by the number of producers, each producer receives ~\$2,500 of value).

Other producers will be involved in education. We will attract at least 15 additional producers per year per operation for on-ranch workshops on organic amendment production, deployment, monitoring, and marketing. Workshop participants will be incentivized by travel reimbursement and receipt of relevant technical guides such as the Soil Health Workbook and the Rural Dryland Composting workbook or the Biochar

in the Southwest workbook (each valued at \$36 per person). These workshops will serve to build community around regenerative agriculture, grassfed production, direct marketing, and climate smart practices because participants in turn can use those skills on their own operations.

Finally, producers will be key stakeholders and annual working groups where we share feedback and develop best practices. Working group participants (40 per year; majority producers as well as researchers, agencies, and other entities in the supply chain) will come together to provide feedback on the process of production, deployment, and marketing for building the climate smart waste-to-plate market. The Southwest Grassfed Livestock Alliance will host a forum to discuss supply chain challenges, and to co-create solutions and strategies to make them work. Working group participants who are producers will be incentivized with a \$275 stipend and travel reimbursement. To improve outreach, education, and cross-cultural communication, we will hire translators/sign language interpreters for up to 450 hours or pages per year to ensure that educational materials and reports are accessible to a wide and relevant audience.

Plan to provide technical assistance, outreach, and training

Quivira staff will oversee provision of technical support, outreach, education, and evaluation/feedback activities.

- Director Dr. Eva Stricker is a microbial ecologist specializing in how plantmicrobe interactions in soil affect biogeochemical cycling and has a background in curriculum development. She will oversee the progress of the grant and ensure that deliverables are met and financial reporting is completed. She will mentor the evaluators and co-design the monitoring and evaluation protocols for carbon accounting in production and field deployment. She will co-create and refine curriculum around existing technical guides for training.
- Manager Amy Larsen has experience in compost process and systems; chemical and biological soil test indicators; soil health management; and irrigated vegetable, orchard, and hoop house crop production. She will oversee the technical support for the ten ranches per year. Manager Janet Garcia has a background in farm work and an MBA. Technical Planner Katherine Ottmers will work with each operation to make plans to align with NRCS practices and implementation standards. A manager (hiring in process) will oversee all aspects of the project. They will organize the workshops at each operation, and oversee the outreach activities, and complete . Communications manager Lynne Whitbeck manages advertising and outreach efforts as well as internal communications management with a background in farm management. She will be in charge of implementing outreach around finding participants in the organic amendment production and deployment trials and workshop participants. Operations manager Nameh Marsin will manage contracts, payments, stipends, and other needs for processing financial and contract information for this project.
- The evaluator (to be hired) will compile information on costs and GHG benefits throughout the supply chain of producers using organic amendments in a circular economy and present this through reports, conferences, workshops, and outreach activities.

We will employ local and regional experts for in-field and remote technical support for compost and biochar production, grass finishing and pasture management, and marketing including Reunity Resources, Trollworks, Wilson Biochar, SWGLA, and the Good Meat Project, and we have verbal agreements with grass finishing contractors Holistic Management International, Kirk Gadzia, and Manny Encinias* (*underserved/minority-focused project partner). These contractors will also assist with in-field and remote outreach events such as workshops and the annual working group.

iii. Measurement/quantification, monitoring, reporting, and verification plan Approach to greenhouse gas benefit quantification and practice implementation Quivira will use several methods for measurement and verification.

Production:

- We will track the amount and type of feedstocks that are transformed into valueadded organic amendments. This will help calculate the diversion from alternative outcomes such as wildfire or landfill.
- 2. We will track fuel, equipment, and energy use for the amendments.

Deployment:

- 1. We will use in-field assessments of aggregate stability which correlates moderately well with organic carbon percentage in rangelands of southern NM (Bird et al. 2002). This assessment will allow producers themselves to evaluate changes through time as it is a low-cost, rapid protocol.
- 2. We will additionally collect aggregate soil samples from the deployment areas and adjacent un-amended controls in the top 10cm using the Range-C protocol from Point Blue Conservation. We are already partnering with them on a project to understand soil carbon related to rangeland management, so we will build on that relationship. We will send samples to commercial labs (eg. Oregon State University) for combustion analysis.

Finishing and providing to market:

- 1. We will track pounds of meat or other livestock products finished on these operations and sold through direct markets.
- 2. We will track fuel, equipment, and energy (storage) emissions for direct marketing meat or other livestock products.

We are partnering with the non-profit OpenTEAM to have a data fellow train Quivira staff how to use open-source tools such as FarmOS in 2022-2023. This technology infrastructure will enable efficient tracking of implementation: amount of feedstock used and number of acres treated. This will also enable us to track the benefits of shortening the supply chain and total transit miles per pound of meat or other livestock product. As OpenTEAM platform interoperability develops, we can compare our information to COMET Tools. COMET has models for organic amendments compared to synthetic nitrogen fertilizer on irrigated and non-irrigated lands but not biochar. We can use our soil tests to compare to the COMETFarm and COMETPlanner results and provide
feedback to COMET model researchers to help inform the parameterization of the models going forward.

We will target 10 ranches per year for five years. We will treat an average of 10 acres per ranch. While CometPlanner (using Bernalillo County, NM) predicts the total project to sequester only 28 tons of CO₂ equivalent per year, we expect that there will be multiple indirect co-benefits such as reduced erosion pressure, enhanced wildlife habitat, and ways to spread out livestock in the fields. There are additional GHG benefits from diversion of waste from landfills, and reduced transportation associated with meat or other livestock product production, processing, and sales.

Approach to reporting, verifying, and tracking of greenhouse gas benefits

After the first year, we will hire an evaluator to help quantify and evaluate the GHG benefits per farm and aggregate to the project and finished beef produced. The evaluator will conduct interviews to compile both the GHG benefits due to diversion from alternative waste streams as well as increased productivity and soil carbon sequestration. This analysis will incorporate transportation, equipment, and energy costs both for production and getting finished meat or other livestock product to consumers, estimate fluxes organic amendment production from the literature, as well as direct carbon stocks measured in the soil. We will additionally compile the costs and time for adoption of organic amendment production and use to estimate the carbon flux per dollar expended. We will use estimates from the literature (eg. Ryals et al. 2015) to estimate longevity of soil carbon stocks and will revisit ranches that implemented practices in the first year in the final year to estimate 5 year differences due to a single amendment. We will conduct initial evaluations and reporting in years 2 and 3 and then again in year 5 to understand how we improved outcomes due to iterative feedback and response in the working groups.

We will produce a final report summarizing all of our findings from in-field tests, soil tests, COMET estimates, and diversion/transportation costs and carbon fluxes to promote through conferences, social media, and through our networks. We will additionally send senior personnel (Director, Evaluator) to the remote and in-person "USDA Partnerships for

Climate-Smart Commodities Learning Network" meetings. We are not focusing on addressing carbon offsets for this project.

iv. Plan to develop and expand markets for climate-smart commodities

For producers to be involved for organic matter production and/or use, we will prioritize engagement of USDA-defined traditionally underserved producers. As such, and in light of the extended drought recently experienced in the Southwest, many people may not currently be ranching because large numbers of people have sold off or drastically reduced their herd size. However, if people are intending to rebuild their soil and forage in order to support either commercial or cultural food production, we would like to encourage inclusion into our program. Estimated economic benefits for participating producers including market returns Producers will benefit in a number of ways from participating in this project. Producers will receive substantive technical assistance on the following topics: organic amendment production; range restoration; pasture management and grass finishing; and developing business strategies for direct marketing. Producers will also benefit from the trade marketing campaigns associated with this work. Producers initiating compost or biochar production may find they are able to develop new on-ranch income sources through selling these to other producers.

More directly, current cattle prices for producers selling steers in New Mexico into commodity markets fetch \$1.75/lb live weight, with an average approximate weight of 500 pounds when sold. This translates to approximately \$800 per animal after transportation costs.

If a producer were to raise this animal to 800 pounds, then process it locally and sell it directly to consumers, the approximate pounds of saleable meat would be 340, which could be sold at an average of \$10 per pound, making an average gross per animal \$3,400. If input costs including feed (possibly baled hay in dry years), processing, marketing and transportation are 60% of gross, the producer would net \$1,340 per animal compared to the \$875 net selling the same live animal.

The typical herd sizes in New Mexico range from 20 - 50 animals. If a producer even sold an average of ten animals annually into direct markets, the producer would increase their annual net revenue from beef sales by \$5,400. If they were to sell all their marketable beef directly, they would increase net revenue from \$10,800 to \$27,000 annually.

Finally, selling into direct markets also keeps money in the community where the beef is raised. For example, if a producer works with a local website designer or a local processor, the money spent at these businesses stays in the community longer and generally improves the economy of the region, benefiting not only the farmers and ranchers who raise the beef, but their neighbors as well.

Post-project potential

This project has potential to be highly sustainable because 1) it provides technical skills in organic amendment production, use, and evaluation directly to rural producers through on-ranch trials and workshops, 2) it leverages and explores existing NRCS practices for ongoing technical support, 3) it creates a market and marketing strategy targeted at this particular suite of circular economy activities to encourage persistence and new adoption 4) and market development is adaptable and transferable to other areas of the country. The long-time scale relative to many grants means that with iterative improvement, we can reach a fuller understanding of when and where organic amendments are particularly beneficial and that can inform models such as the COMET tools which can be unreliable in areas with rainfall-driven productivity because pulses and interannual variation can make compiling good estimates challenging. The long-time frame will also give us adequate time to support producers and consumers

developing the relationships required for the success and sustainability of regional supply chains.

staff). Note that range managers are involved through	hout the p	project b	ut are no	t the resp	onsible p	ersonnel fo	or most	activities		2000	2			0.0000		5	101010		2001
	203	23		2024				2025			20	26			20	27		202	00
	Q3	Q4	Q1	a2 a	3 04	aı	Q2	Q 3	Q4	Q1	Q2	Q 3	Q4	a1	Q2	Q 3	Q4	Q1	Q2
Produce organic amendments				2.61							1				100	101		100	
Outreach and selection of producers	Mp, Mc			Mp,	Mc			Mp, Mc			2	lp, Mc			2	p. Mc			
Implementing compost production		Mt, Cp	Mt, Cp		Mt, 0	Cp Mt, Cp			Mt, Cp	Mt, Cp		101	Mt, Cp	Mt, Cp	7-7		Mt, Cp	Mt, Cp	
Implementing biochar production		Mt, Cp	Mt, Cp		Mt, 6	Cp Mt. Cp			Mt, Cp	Mt, Cp			Mt, Cp	Mt, Cp			Mt, Cp 1	Mt, Cp	
Monitor and evaluate production			Mt, D	-		Mt. D				Mt, PR				Mt, PR				At, PR	
Deploy organic amendments			10	N.			100				1	3	1			*		2.44	
Outreach and selection of producers	Mt, Mc			Mt,	Mc.			Mt, Mc			4	11, Mc			2	It, Mc			
Deploy organic amendments		Mp	Mp		MF	Mp			Mp	Mp			Mp	Mp			Mp		
Monitor and evaluate rangeland outcomes				_	D,MI	D,Mp			PR.Mp	PR,Mp		P	R.Mp	PR,Mp		Ы	R,Mp	A	R,Mp
Train producers in production, deployment, and																			i i i
		1000	1	0		1.22	11		1			ł				+		Care of the	1000
Ten workshops per year		Me	Me	Me	Ŵ	Me	Me		Me	Me	Me		Me	Me	Me	-	Me	Me	Me
Compile dollar and carbon accounting				10		11	10.000					411			11	191	W.		
Working group with producers to get feedback and assessment				Σ	Ø	-		Me			÷	Me			-	Me	ic.	,	Me
Build reports summarizing the costs and carbon balance						ш Ш	m	ш	ш	ω.	ш	ш	ш	ш	ш	ш	ш	ш	ш
Provide suggestions for improvement for next set of producer projects					Dd	-			PD				DD				DD		
Promote shorter and more circular supply				-															
cnains							ļ				l				l				
Build marketing toolkit for producers to help them market their organic amendments	Cm	Cm									_								
Technical support for each producer for marketing the organic amendment (if desired)			Ę		5	g		2		Cm				Cm				Cm	
Build marketing toolkit for producers to help them market their livestock product		Cm	E O								=							-	
Technical support for each producer for marketting the livestock product				Cm			Cm				Cm				Cm				
Build and maintain online database for consumers to find climate-smart livestock					MF				Mp		<u> </u>		Mp			Mp		_	
Promote project in media, conferences, and outreach.				Mp			Mp				Mp				Mp				Mp

Table 2. Project timeline with time period (Q1= Jan-Mar, etc.), outcome (bold) and activity, with staff or contractor responsible for the deliverable (Mp = Project Manager, Me = Education Manager, Mc = Communications Manager, Me = Education Manager, Mc = Communications Manager, staff. Note that range managers are involved through the manager are involved through the manager are involved through the manager.

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Table 3. Project timeline with benchmarks/milestones.

Attachment - Benchmarks Table

	32	2023		202	4			2025			2026	243		202		202	8
	Q 3	Q4	٩	02	03	Q4	5	Q2 Q	3 Q4	ą	Q2 C	(3 Q4	6	02 0	13 Q4	ą	02
Produce organic amendments					0						1	0	0				
Deploy organic amendments																	
Number of producers involved hosting amendment production/use		Q	10			15	20		25	30		35	40		45	50	
Number of underserved producers involved hosting amendment production/use		4	œ			12	16		50	24		58	32		36	40	
Number of acres		50	100			150	200		250	300		350	400		450	500	
Number of head (difficult to estimate). Average ranch size of ~3000 acres, supporting 60 AUs, but many traditionally underserved producers have smaller anches. We'll use estimate of 1000 acres, supporting 20AUs	-	100	200		-	300	400		200	600		200	800		006	1000	
Dollars provided directly to producers (stipend and supplies; does not include value of staff time or contractors)		20,000	40,000		00	,000	0,000		100,000	120,000		140,000	160,000		180,00	0 200,000	
GHG Benefits (CO2e sequestered; based on Comet Planner estimate)				28				56			84			112			140
GHG Benefits (reduced emissions; based on diversion factor of 0.56 (CA EPA 2017) for emission of 0.07 MTCO2/ton feedstock and estimating 150 tons of feedstock				9				12			18			24			30
Number of new marketing channels established				10				20			30			40			50
Number of measurement tools utilized (in field measurement, COMET models, lab tests completed)	1-			10	-			20			30			40			60
Train producers in production, deployment, and monitoring							8 8					¢ .			< - 1	-	
Number of producers networking and earning about amendment production/use			75	150			225	300		375	450		525	600		775	850

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Climate-Smart Practices and Limitations

NRCS Practice Code	Practice Name
317	Composting Facility
336	Soil Carbon Amendment
384	Woody Residue Treatment Conservation
528	Prescribed Grazing
666	Forest Stand Improvement

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

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

N/A

ATTACHMENT - DATA DICTIONARY



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

Document Ref: GIMW2-TYRNA-5XAX9-TTWV8 an equal opportunity lender, provider and employer.

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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

Marketing Activities

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

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

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 Unique Farm ID assigned by FSA Farm ID Tract ID Unique Tract ID assigned by FSA Field ID Unique Field ID assigned by FSA State State name County County name GHG measurement method Method of measurement Annual Entity that conducted analysis Annual Lab name 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 Soil sample result Annual 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.

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

Table 10. Additional Environmental Benefits elements

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:
 - 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 incentivized by the project. These commodities include those for whom		
farmers are directly receiving incentives o	r other types of marketing support. See full list of commodity options	
in Appendix B. List one commodity per rov	Ν.	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values: FSA commodity list	
Logic: None – all respond	Required: Yes	
Data collection level: Project	Data collection frequency: Quarterly	
Commodity sales		
Data element name: Commodity sales	Reporting question: Did project activities result in sales this quarter of the commodity(ies) produced by this project?	
Description: Indicator of sales of commod	ity(ies) related to project activities. If sales are reported, complete the	
Marketing Activities worksheet (Table 3) a	is part of the quarterly performance report.	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Yes	
Logic: None - all respond	NO Bequired: Ves	
Dete sellestice level. Project	Required. Tes	
Data collection level: Project	Data collection frequency: Quarterly	
Farms enrolled		
Data element name: Farms enrolled	Reporting question: Did the project enroll any producers or fields this quarter?	
Description: Indicator that the project enr complete the <i>Producer Enrollment</i> and <i>Fie</i> performance report.	olled producers or fields. If enrollment activities occurred this quarter, and Enrollment worksheets (Tables 4 and 5) as part of the quarterly	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Yes	
	• No	
Logic: None – all respond	Required: Yes	
Data collection level: Project	Data collection frequency: Quarterly	
GHG calculation methods		
Data element name: GHG calculation methods	Reporting question: What methods is the project using to 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 	
2 2 22 40	• 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?
Description: List the method(s) that was used	to calculate the total cumulative GHG benefits reported by the
project this quarter.	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Models
	Direct field measurements Dath
Logic: None - all respond	Both Both Both
Data collection level: Project	Data collection frequency: Quarterly
Cumulative GHG benefits	Data concertor inequency. Quartery
Data element name: Cumulative GHG	Reporting question: What are the project's estimated total GHG
benefits	emission reductions (CO2eq) to date?
Description: Total cumulative estimated gree	nhouse gas emission reductions from practice implementation.
This is updated quarterly. If there are no chan	ges, enter the same number as the previous quarter.
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Cumulative carbon stock	
Data element name: Cumulative carbon	Reporting question: How much carbon has the project
stock	sequestered to date?
Description: Estimated total cumulative change	ge in carbon stock based on practice implementation. This is
updated quarterly. If there are no changes, er	iter the same numbers as the previous quarter. Conversion rate is
Data type: Decimal	Select multiple values: No
Massurement unit: Matric tops (0.00	Allowed values: 0.10,000,000
logic: None – all respond	Required: Ves
Data collection level: Project	Deta collection fragmenen Quarterlu
	Data conection frequency: Quarterly
Data element name: Cumulative CO2	Reporting question: What are the project's estimated total
benefit	cumulative CO2 emission reductions to date?
Description: Estimated total cumulative carbo	n dioxide emission reductions based on practice implementation
This is updated guarterly. If there are no chan	ges, enter the same number as the previous quarter.
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO2	Allowed values: 0-10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Cumulative CH4 benefit	
Data element name: Cumulative CH4 benefit	Reporting question: What are the project's estimated total CH4 emission reductions to date?
Description: Estimated total cumulative meth	ane reduction based on practice implementation. This is updated
quarterly. If there are no changes, enter the s	ame 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 reduced	in Allowed values: 0-10,000,000
CO ₂ eq	Described Ver
Logic: None – all respond	Kequired: Yes
Data collection level: Project	Data collection frequency: Quarterly

Cumulative N20 benefit	
Data element name: Cumulative N2O benefit	Reporting question: What are the project's estimated total N2O emission reductions to date?
Description: Estimated total cumulative nitrou	is oxide reduction based on practice implementation. This is
updated quarterly. If there are no updated nu	mbers enter the same number as the previous quarter.
Conversion rate is one ton of $N_2O = 298$ tons of	of CO2eq.
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons N2O reduced	in Allowed values: 0-10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Offsets produced	
Data element name: Offsets produced	Reporting question: How many carbon offsets have been produced in the project?
Description: Total carbon offsets produced by	enrolled project fields during the quarter. Offsets are defined as
having been verified and certified using an acc	epted standard and sold into the carbon marketplace.
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Offsets sale	
Data element name: Offsets sale	Reporting question: To what marketplace(s) were carbon offsets sold?
Description: Marketplaces to which carbon of	fsets produced by enrolled project fields were sold. Offsets are
defined as having been verified and certified u	ising an accepted standard and sold into the carbon marketplace.
List each marketplace name. Separate names	with commas.
Data type: Text	Select multiple values: NA
Measurement unit: Name	Allowed values: Text
Logic: Respond if >0 to 'Offsets produced'	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Offsets price	
Data element name: Offsets price	Reporting question: What was the average price of carbon received for offsets?
Description: Average price per metric ton paid	for carbon offsets produced by enrolled project fields. Offsets are
defined as having been verified and certified u	ising an accepted standard and sold into the carbon marketplace.
Data type: Decimal	Select multiple values: No
Measurement unit: Dollars per metric ton	Allowed values: 0-500
Logic: Respond if >0 to 'Offsets produced'	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Insets produced	
Data element name: Insets produced	Reporting question: How many carbon insets have been
	produced in the project?
Description: Total carbon insets produced by	enrolled fields during the quarter. Insets are defined as having
been verified and certified using an accepted s Data type: Decimal	standard and accounted for within Scope 3 emissions for a firm. 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

Cost of on-farm TA	
Data element name: Cost of on-farm TA	Reporting question: What is the total amount that has been spent to provide on-farm TA?
Description: Total cost of any field- or pract or partners) to any producers. This is update previous quarter.	ice-specific technical assistance provided by the project (by recipient 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?
Description: Total cost of all MMRV activitie are defined as measurement (calculations of	es paid for by the project (recipient or partners). MMRV components or estimations of GHG emissions), monitoring (ongoing review and

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

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

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

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

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

GHG re	porting met	thod
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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	
B + 1 + 0116 // 11	

Data element name: GHG verification method 1-5

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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 University	
Logic: None – all respond	Required: Yes	
Data collection level: Partner	Data collection frequency: Partnership initiation	
Partner POC		
Data element name: Partner POC Description: Name of a point of contact for the recipie	Reporting question: Who is the point of contact for this project at the recipient or partner organization? ent or partner organization	
Data type: Text	Select multiple values: NA	
Measurement unit: NA	Allowed values: Text	
Logic: None – all respond	Required: Yes	
Data collection level: Partner	Data collection frequency: Partnership initiation; update as necessary	
Partner POC email	¹ /2	
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	pient or partner organization	
Data type: Text	Select multiple values: NA	
Measurement unit: NA	Allowed values: Text	
Logic: None – all respond	Required: Yes	
Data collection level: Partner	Data collection frequency: Partnership initiation; update as necessary	

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

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

equipment and other inputs for use in the field. The worksheet provides three columns with a drop-down list of the allowed values. Choose one value for each column. If fewer than 3 match types are used, leave unnecessary columns blank. If "other" is chosen, use the additional column to enter other match types as free text.

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

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Data element name: Match amount 1-3 Re co pn Description: Cumulative (total) value of funds for each match contribution from the start of the partnership for up to the top three (in dollar value) match types. The wore element. Enter one value for each column. If fewer than 3 match share. Data type: Decimal Se Measurement unit: Dollars All Logic: None – all respond Re Data collection level: Partner Data aligning type provided Data element name: Training type 1-3 provided Regord Description: Types of training provided to the project partner the past quarter. Training can come from the recipient, a proof their own organization, or an outside organization. Enter up raining provided. The worksheet provides three columns with one value for each column. If fewer than 3 training types are s chosen, use the additional column to enter other training types are s chosen, use the additional column to enter other training types are s chosen.	porting question: What is the value of the match ntributions the organization provided to the oject? h type that the organization has provided as a to the end of the reporting quarter. Enter amounts ksheet provides three columns for this data atch types are used, leave unnecessary columns lect multiple values: NA owed values: \$0-\$100,000,000 quired: Yes ta collection frequency: Quarterly porting question: What types of training has the anization provided to project partners? er as a result of participating in the project during ject partner organization (including other divisions up to the top three (in dollar value) types of partner th a drop-down list of the allowed values. Choose used, leave unnecessary columns blank. If "other" ypes as free text.
Description:Cumulative (total) value of funds for each match project match contribution from the start of the partnership for up to the top three (in dollar value) match types. The wor alement. Enter one value for each column. If fewer than 3 m plank.Data type:DecimalData type:DecimalMeasurement unit:DollarsLogic:None – all respondData collection level:PartnerData element name:Training type 1-3 providedData element name:Training provided to the project partnerData quarter.Training can come from the recipient, a pro of their own organization, or an outside organization. Enter u craining provided. The worksheet provides three columns with one value for each column. If fewer than 3 training types are s chosen, use the additional column to enter other training type List	h type that the organization has provided as a to the end of the reporting quarter. Enter amounts ksheet provides three columns for this data atch types are used, leave unnecessary columns lect multiple values : NA owed values : \$0-\$100,000,000 quired: Yes ta collection frequency: Quarterly borting question: What types of training has the anization provided to project partners? er as a result of participating in the project during ject partner organization (including other divisions up to the top three (in dollar value) types of partner th a drop-down list of the allowed values. Choose used, leave unnecessary columns blank. If "other" ypes as free text.
blank. Data type: Decimal Se Measurement unit: Dollars All Logic: None – all respond Re Data collection level: Partner Da raining type provided Data element name: Training type 1-3 provided Reg org Description: Types of training provided to the project partner the past quarter. Training can come from the recipient, a pro of their own organization, or an outside organization. Enter u training provided. The worksheet provides three columns witto the value for each column. If fewer than 3 training types are s chosen, use the additional column to enter other training to Data type: List Selevice.	lect multiple values: NA owed values: \$0-\$100,000,000 quired: Yes ta collection frequency: Quarterly porting question: What types of training has the anization provided to project partners? er as a result of participating in the project during ject partner organization (including other divisions up to the top three (in dollar value) types of partner th a drop-down list of the allowed values. Choose used, leave unnecessary columns blank. If "other" ypes as free text.
Data type: Decimal Se Measurement unit: Dollars All Logic: None – all respond Re Data collection level: Partner Data 'aining type provided Data element name: Training type 1-3 provided Data element name: Training provided to the project partner org Description: Types of training provided to the project partner he past quarter. Training can come from the recipient, a proof their own organization, or an outside organization. Enter use the provided. The worksheet provides three columns with one value for each column. If fewer than 3 training types are s chosen, use the additional column to enter other training to bata type: List	lect multiple values: NA owed values: \$0-\$100,000,000 quired: Yes ta collection frequency: Quarterly porting question: What types of training has the anization provided to project partners? er as a result of participating in the project during ject partner organization (including other divisions up to the top three (in dollar value) types of partner th a drop-down list of the allowed values. Choose used, leave unnecessary columns blank. If "other" ypes as free text.
Measurement unit: Dollars All Logic: None – all respond Re Data collection level: Partner Data collection level: Partner Data collection level: Partner Data raining type provided Data element name: Training type 1-3 provided Regord Description: Types of training provided to the project partner receiption: Training can come from the recipient, a proof their own organization, or an outside organization. Enter uteraining provided. The worksheet provides three columns with one value for each column. If fewer than 3 training types are s chosen, use the additional column to enter other training to Data type: List	owed values: \$0-\$100,000,000 quired: Yes ta collection frequency: Quarterly corting question: What types of training has the anization provided to project partners? er as a result of participating in the project during ject partner organization (including other divisions up to the top three (in dollar value) types of partner th a drop-down list of the allowed values. Choose used, leave unnecessary columns blank. If "other" ypes as free text.
Logic: None – all respond Re Data collection level: Partner Data	quired: Yes ta collection frequency: Quarterly porting question: What types of training has the anization provided to project partners? er as a result of participating in the project during ject partner organization (including other divisions up to the top three (in dollar value) types of partner th a drop-down list of the allowed values. Choose used, leave unnecessary columns blank. If "other" ypes as free text.
Data collection level: Partner Data element name: Training type 1-3 provided Report Org Description: Types of training provided to the project partner Report Org Description: Types of training can come from the recipient, a propriation or an outside organization. Enter use the provided. The worksheet provides three columns with one value for each column. If fewer than 3 training types are s chosen, use the additional column to enter other training to the part type: List	ta collection frequency: Quarterly porting question: What types of training has the anization provided to project partners? er as a result of participating in the project during ject partner organization (including other divisions up to the top three (in dollar value) types of partner th a drop-down list of the allowed values. Choose used, leave unnecessary columns blank. If "other" ypes as free text.
raining type provided Data element name: Training type 1-3 provided Report Org Org Description: Types of training provided to the project partner The past quarter. Training can come from the recipient, a propriation of their own organization, or an outside organization. Enter use the provided. The worksheet provides three columns with the value for each column. If fewer than 3 training types are s chosen, use the additional column to enter other training to Data type: List	porting question: What types of training has the anization provided to project partners? er as a result of participating in the project during ject partner organization (including other divisions up to the top three (in dollar value) types of partner th a drop-down list of the allowed values. Choose used, leave unnecessary columns blank. If "other" ypes as free text.
Data element name: Training type 1-3 provided Rey org Description: Types of training provided to the project partner the past quarter. Training can come from the recipient, a pro of their own organization, or an outside organization. Enter u training provided. The worksheet provides three columns with one value for each column. If fewer than 3 training types are s chosen, use the additional column to enter other training to Data type: List Selection	porting question: What types of training has the anization provided to project partners? er as a result of participating in the project during ject partner organization (including other divisions up to the top three (in dollar value) types of partner th a drop-down list of the allowed values. Choose used, leave unnecessary columns blank. If "other" ypes as free text.
Description: Types of training provided to the project partner the past quarter. Training can come from the recipient, a pro- of their own organization, or an outside organization. Enter us training provided. The worksheet provides three columns with one value for each column. If fewer than 3 training types are s chosen, use the additional column to enter other training to Data type: List Selection	er as a result of participating in the project during ject partner organization (including other divisions up to the top three (in dollar value) types of partner th a drop-down list of the allowed values. Choose used, leave unnecessary columns blank. If "other" ypes as free text.
Data type: List Sel	services and the service of the services of the service of the ser
	ect multiple values: No
Vleasurement unit: Category Alio	Data collection Grant reporting Marketing opportunities Providing financial assistance Providing technical assistance Writing producer contracts Other (specify)
.ogic: None – all respond Rec	juired: Yes
Data collection level: Partner Dat	a collection frequency: Quarterly
ctivity by partner	
Data element name: Activity 1-3 by partner Report org Description: Types of activities that the recipient or partner	porting question: What types of activities has the anization provided to the project? organization has provided during the reporting
quarter. Enter up to the top three (in dollar value) types of ac columns with a drop-down list of the allowed values. Choose types are used, leave unnecessary columns blank. If "other" i activity types as free text.	ctivities undertaken. The worksheet provides three one value for each column. If fewer than 3 activity s chosen, use the additional column to enter other
Data type: List Sel	ect multiple values: No
Vleasurement unit: Category Allo	wed values: Marketing support MMRV support Producer outreach for enrollment Technical assistance to producers Training to other partner organizations
ogic: None – all respond	wired: Yes
Dete collection level. Derteer	anea, res

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Activity cost	
Data element name: Activity cost 1-3	Reporting question: What is the value of the activities this organization has provided to the project?
Description: Cumulative (total) cost of each activity typ	e that the organization has undertaken or offered from
the start of the partnership to the end of the reporting value) activity types. The worksheet provides three colu	quarter. Enter amounts for up to the top three (in dollar
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	olumn blank.
Data type: Text	Select multiple values: NA
Measurement unit: Name	Allowed values: Text
Logic: None – all respond	Required: Yes
Data collection level: Partner	Data collection frequency: Quarterly
Product source	
Data element name: Product source	Reporting question: Which companies provided the supplies?
Description: Name of firm or company from which sup	plies were obtained.
Data type: Text	Select multiple values: NA
Measurement unit: Name	Allowed values: Text
Logic: Respond if text entered for 'Products supplied'	Required: Yes
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?
Description: List a single commodity produced	uced or marketed through incentives from this project. If multiple
commodities are produced by the project,	use additional rows of the worksheet to report each commodity. Use
the FSA commodity list in Appendix B and	choose the commodity from the list.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values: FSA commodity list
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Marketing channel type	
Data element name: Marketing channel	Reporting question: What type of marketing channel is used to
type	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 marke	ted 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 chan	nel type(s) as free text.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:

Data type: List	Select multiple values: No
Measurement unit: Category Logic: None – all respond	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) Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Number of buyers	
Data element name: Number of buyers Description: List the number of individual	Reporting question: How many buyers are there in this marketing channel? firms or buyers in this marketing channel.
Data type: Integer	Select multiple values: No
Measurement unit: Count	Allowed values: 1.500
weasurement unit. count	Anowed values, 1-300
Logic: None – all respond	kequirea: Yes
Data collection level: Project	Data collection frequency: Quarterly

Names of buyers	
Data element name: Names of buyers	Reporting question: What are the names of all of the buyers in this marketing channel?
Description: Provide the names of all buye	ers in this marketing channel. Separate each name with a comma.
Data type: Text	Select multiple values: NA
Measurement unit: Name	Allowed values: Text
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Marketing channel geography	
Data element name: Marketing channel geography	Reporting question: What is the primary geography of the marketing channel?
Description: The primary geography of the which most of the activity of buying and seneighboring states. Regional means within International means specific locations out specific international location.	e type of marketing channel. Primary geography means the scale at elling happens. Local means within a single state or directly n a five-to-ten state area. National means across the United States. side of the United States. Global means across the world or not to a
Data type: List	Select multiple values: No
	 Local Regional National 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 this marketing channel?
Description: The dollar value of the comm	odity sold in this marketing channel this quarter (non-cumulative).
Data type: Decimal	Select multiple values: No
Measurement unit: Dollars	Allowed values: \$1-\$100,000,000
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Volume sold	
Data element name: Volume sold	Reporting question: What is the volume of the commodity sold in this marketing channel?
Description: The volume of the commodit	y sold in this marketing channel this quarter (non-cumulative).
Data type: Decimal	Select multiple values: No
Measurement unit: Number	Allowed values: 1-100,000,000
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly

Data element name: Volume sold unit	Reporting question: What is the unit of volume?
Description: The unit associated with the v	olume of the commodity sold in the marketing channel. If "other" i
chosen, use the additional column to enter	the appropriate unit as free text.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
instantin anno satobol /	Bales (500 pounds)
	Bushels
	Carcass pounds
	Gallons
	Kilograms
	Linear board feet
	Liveweight pounds
	Metric tons
	Pounds
	Short tons
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Price premium	
Data element name: Price premium	Reporting question: What price premium is received for the
	commodity sold in this marketing channel?
Description: The price premium received for	or the commodity sold in this marketing channel this quarter. Price
premium is the amount received above a 'h	ousiness as usual' price.
Data type: Decimal	Select multiple values: No
Measurement unit: Dollars	Allowed values: \$0.01-\$10,000
Logic: None – all respond	Required: Yes
Data collection level: Project	Data collection frequency: Quarterly
Price premium unit	production of contrast Sergistra (Contrast Sergistics Contrast Sergistics Address Address)
Data element name: Price premium unit	Reporting question: What is the unit for the price premium?
Description: The unit associated with the p	rice premium for the commodity sold in the marketing channel. If
"other" is chosen, use the additional colum	nn to enter the appropriate unit as free text.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Per bale (500 pounds)
	Per bushel
	Per carcass pound
	Per gallon
	Per kilogram
	Per linear board foot
	Per live pound
	Per metric ton
	Per ounce
	Per short ton
	Other (specify)
Logic: None – all respond	Required: Yes
Logic: None – all respond Data collection level: Project	Required: Yes Data collection frequency: Quarterly

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

Data element name: Product differentiation method 1-3

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

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

Select multiple values: No
 Allowed values: Certification/verification for internal insetting Farm certification Label or badge used on packaging or marketing Third party certification/verification Trademark
Other (specify)
Required: Yes
Data collection frequency: Quarterly

Marketing method Data element name: Marketing method 1-3

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

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

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

Data element name: Marketing channel	Reporting question: What methods are used to generate
Data cicinent name. Warketing chamier	Reporting question. What methods are used to generate
identification method 1-3	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
Traceability method	
Data element name: Traceability method	Reporting question: What traceability methods are used for

climate-smart commodities in this channel?

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

Measurement unit: Category

Logic: None - all respond

1-3

Allowed values:

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

Data collection level: Project Data collection frequency: Quarterly
Producer Enrollment

Unique IDs		
Farm ID	Unique Farm	ID assigned by FSA
State or territory	State name (must match FSA farm enrollment data)	
County of residence	County name (must match FSA farm enrollment data)	
Producer data change		
Data element name: Producer data change		Reporting question: Is there new/updated information for a producer who is re-enrolling in the project?
Description: Indicates that the the project and is re-enrolling.	ere is new or updated	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		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	ducer enrolled in the	e project by signing their first contract.
Data type: Date		Select multiple values: NA
Measurement unit: MM/DD/Y	YYY	Allowed values: 01/01/2023 – 12/31/2030
Logic: None – all respond		Required: Yes
Data collection level: Produce	r	Data collection frequency: Initial enrollment
Producer name		
Data element name: Producer	name	Reporting question: What is the name of producer enrolled in the project?
Description: Name of the proc customer's Business Partner re Data type: Text	ducer enrolled in the cord and the Farm O	project; the name must match the name contained in the perating Plan in FSA Business File for that Farm ID. Select multiple values: NA
Measurement unit: NA		Allowed values: Text
Logic: None – all respond		Required: Yes
Data collection level: Producer	f.	Data collection frequency: Initial enrollment

Underserved status		
Data element name: Underserved st	atus Reporting question: Is this producer considered an	
	underserved and/or a small producer?	
Description: Underserved status of the	ne primary operator of the enrolled operation. Underserved producers	
generally include beginning farmers,	socially disadvantaged farmers, veteran farmers, and limited resource	
farmers; women farmers and produc	ers growing specialty crops are generally also included in these categories.	
Small farms are generally those with	less than \$350,000 in annual gross cash farm income. Indicate whether this	
know" if the producer declines to an	a small producer, or both underserved and a small producer. Ose Tubit c	
collecting demographic data, includir	race, ethnicity and gender. Providing demographic information is	
voluntary and at the discretion of the	e 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	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	 Yes, underserved 	
	 Yes, small producer 	
	 Yes, underserved and small producer 	
	• No	
r x xx xx xx	 I don't know 	
Logic: None – all respond	Required: No	
Data collection level: Producer	Data collection frequency: Initial enrollment	
Total area		
Data element name: Total area	Reporting question: What is the total area of the farm?	
Description: Total area of the farm as	ssociated with the Farm ID. Report total area of the farm, even if only a	
portion of the farm is enrolled in the	project. If a producer is enrolled in the project for multiple years, review	
the total area each time a new contra	Schot multiple values: No.	
Data type: List	Select multiple values: NO	
Measurement unit: Category	Allowed values:	
	Less than 1 acre 1 to 9 acros	
	 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	
Logic: None – all respond	Required: Yes	
Data collection level: Producer	Data collection froguency: Initial encollment and subsequent	
Data concetton reven. Froudcer	enrollment(s) if annlicable	

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

it types of livestock are
rksheet provides three umn. If there are fewer tha litional column to enter years, review the livestock
0
y: Initial enrollment and), if applicable
vo Waa
many livestock (by type) ar
r

enrolled in the project for multiple years, review the average annual head count each time a new contract is signed and provide any pecessary updates.

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

Organic farm	
Data element name: Organic farm Description: USDA-certified organic means th	Reporting question: Is any part of the farm currently USDA- certified organic or transitioning to USDA-certified organic? at the farm has been certified by an accredited organic certifying
agent or is transitioning to USDA-certified org some or all of the farm is certified organic or farm is certified organic or transitioning to ce	anic by not using any of the prohibited substances. Yes means tha transitioning to certified organic. No means that no part of the rtified organic. If a producer is enrolled in the project for multiple
years, review the organic certification status of pecessary undates	of the farm each time a new contract is signed and provide any
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	• Yes
	No
Logic: None - all respond	Required: No
	Required. No
Data collection level: Producer	Data collection frequency: initial enrollment and
Organic fields	subsequent enroiment(s), it applicable
Data element name: Organic fields	Reporting question: Are any of the fields enrolled in the
Data element name. Organic nelos	project currently USDA-certified organic or transitioning to
Description: USDA cortified organic means th	at the operation has been certified by an accredited organic
pertifying agent or is transitioning to USDA or	at the operation has been certified by an accredited organic
certifying agent of is transitioning to USDA-ce	in the project are contified argonic or transitioning to contified
arganic. No means that no part of the fields of	n the project are certified organic or transitioning to certified
certified organic. If a producer is enrolled in t	he project for multiple years, review the organic certification statu
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	• Yes
	• No
	 I don't know
Logic: Respond if yes to 'Organic operation'	Required: No
Data collection level: Producer	Data collection frequency: Initial enrollment and
0 K 1944 94	subsequent enrollment(s), if applicable
Producer motivation	
Data element name: Producer motivation	Reporting question: Which of the following was the primary reason the producer enrolled in this project?
Description: Primary operator's motivation for	or enrolling in the project.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Financial benefit
	Environmental benefit
	 New market opportunity
	 Partnerships or networks
	• Other
Logic: None – all respond	Required: Yes

Producer outreach	
Data element name: Producer outreach 1- 3 Description: Up to three most common type activities are those focused on identifying a recipient or project partners. The workshee values. Choose one value for each column. I blank. If "other" is chosen, use the additiona	Reporting question: What types of outreach were provided to producers? es of outreach provided to producer prior to enrollment. Outreach nd enrolling producers in the project. Outreach can come from the t provides three columns with a drop-down list of the allowed lf there are fewer than 3 outreach types, leave unnecessary columns 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
CSAF experience	
Data element name: CSAF experience Description: Has this farm implemented clir farm in the past 10 years or since the currer CSAF practices are included in a list in Apper Data type: List Measurement unit: Category	Reporting question: Has the primary operator implemented CSAF practices in the last ten years anywhere on the farm? nate-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 Allowed values:
T	 Yes No I don't know
Logic: None – all respond	Requirea: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment

CSAF federal funds	
Data element name: CSAF federal funds	Reporting question: Were prior CSAF practices supported by federal funds?
Description: If this farm (under the primary of implementation supported by federal funds? not limited to, those from the Natural Resour Quality Incentives Program (EQIP), Conservat Program (RCPP), or related programs), the Fa funds from other USDA programs or other fe	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 Environmental tion Stewardship Program (CSP), Regional Conservation Partnership arm Service Agency Conservation Reserve Program (CRP), as well as deral agencies.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Yes
	• No
	I don't know
Logic: Respond if yes to 'CSAF experience'	Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment
CSAF state or local funds	
Data element name: CSAF state or local funds	Reporting question: Were prior CSAF practices supported by state or local funds?
Description: If this farm (under the primary of implementation supported by state funds? So or other state agencies, local water quality di	operator) has implemented CSAF practices in the last ten years, was tate or local funds are those from state departments of agriculture istricts and other local agencies.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	• Yes
	• No
	I don't know
Logic: Respond if yes to 'CSAF experience'	Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment
CSAF nonprofit funds	
Data element name: CSAF nonprofit funds	Reporting question: Were CSAF practices supported by nonprofit funds?
Description: If this farm (under the primary of implementation supported by nonprofit functor organization to a producer	perator) has implemented CSAF practices in the last ten years, was ls? Nonprofit funds are those offered directly from a nonprofit
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
measurement and eateboy	Yes
	• No
	 I don't know
Logic: Respond if yes to 'CSAF experience'	Required: Yes
Data collection level: Producer Data collection frequency: Initial enrollment	

CSAF market incentives	
Data element name: CSAF market incentives	Reporting question: Were CSAF practices supported by market incentives?
Description: If this farm (under the primary op implementation supported by market incentive buyer or by a consumer based on branding or Data type: List	erator) has implemented CSAF practices in the last ten years, was es? Market incentives include premiums paid by a commodity labeling as a climate-smart commodity.
Macauroment unit: Category	Allowed values: No
weasurement unit. Category	Yes No
Logic: Respond if yes to 'CSAF experience'	I don't know Required: Yes
Data collection level: Producer	Data collection frequency: Initial enrollment

Field Enrollment

Unique IDs		
Farm ID	Unique Farm ID assigned by FSA	
Tract ID	Unique Tract ID assigned by FSA	
Field ID	Unique Field ID assigned by FSA	
State or territory of field	State name (must match FSA farm enrollment data)	
County of field	County name (must match FSA farm enrollment data)	
Prior Field ID, if applicable	Prior Field ID assigned by FSA if there has been reconstitution of the far resulting in a new Field ID during the field's enrollment in the project	
Field data change		
Data element name: Field data ch	nange Reporting question: Has the information previously reported for this field changed?	
Description: Indicator that this en number or changes to the commo the project.	ntry is being used to report any relevant changes, such as a new Field ID odity or practice combinations, for a field that has previously been enrolled in	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Yes	
	• No	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Re-enrollment	
Contract start date		
Data element name: Contract sta	rt date Reporting question: What is the start date of the contract with the producer that includes this field?	
Deta tune: Data	Solect multiple values: NA	
Massurament unit: MM/DD/VVV	Allowed values: 01/01/2022 12/21/2020	
Logic None all respond	Populade Voc	
Data collection level: Field	Data collection frequency: Initial enrollment	
Total field area		
Data element name: Total field an	rea Reporting question: What is the total size of the enrolled field?	
Description: Total size of the field	enrolled with the project.	
Data type: Decimal	Select multiple values: No	
Measurement unit: Acres	Allowed values: .01-500	
Logic: None – all respond	Required: Yes	
	100 million and 100 million and 100 million	

Commodity category	
Data element name: Commodity category	Reporting question: What category of commodity(ies) is (are) produced from this field?
Description: Category of commodity(ies) produced in	field enrolled in the project
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Crops
	Livestock
	Trees
	Crops and livestock
	Crops and trees
	 Livestock and trees
	 Crops, livestock and trees
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
Commodity type	
Data element name: Commodity type	Reporting question: What type of commodity is produced from this field?
Description: Type of commodity produced in field enr worksheet provides a drop-down list of the allowed va commodities in subsequent rows.	olled in the project. See full list in Appendix B. The alues. Choose the appropriate value. Enter additional
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values: FSA commodity list
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
Baseline yield	
Data element name: Baseline yield	Reporting question: What is the baseline yield of this field?
Description: Average annual yield of commodity in 3 y field if possible. If not at field level, provide average a Data type: Decimal	years prior to enrollment. Provide yield for the enrolled nnual yield for the specific commodity for the operation. Select multiple values: No
Measurement unit: Production per acre or animal	Allowed values: .01-100,000
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment

Baseline yield unit	
Data element name: Baseline yield unit	Reporting question: Baseline yield unit
Description: Unit of average annual yield o	f commodity in enrolled field in 3 years prior to enrollment. The
worksheet provides a drop-down list of cho	pices for this data element. If "other" is chosen, use the additional
column to enter the appropriate yield unit	as free text.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Animal units per acre
	Bushels per acre
	Carcass pounds per animal Head per acro
	 Hundred-weights (or nounds) per bead
	Innear feet per acre
	 Liveweight pounds per animal
	 Pounds per acre
	Tons per acre
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
Baseline yield location	
Data element name: Baseline yield location	n Reporting question: For what portion of the operation is the
	baseline yield being reported?
Description: Location of the reported avera	age annual yield of commodity in 3 years prior to enrollment. If
"other" is chosen, use the additional colum	in to enter the appropriate location as free text.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Enrolled field
	Whole operation
I a star Manager all assessed	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
Field land use	
Data element name: Field land use	Reporting question: What is this field's land use history?
Description: Prior to enrollment, what was	the most common land use for this field in the past 3 years?
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Crop land
	Forest land
	Non-agriculture
	Other agricultural land
	Pasture
	Range
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment

Data element name: Field irrigated	Reporting question: What is this field's irrigation history?
Description: Prior to enrollment, what w	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:
	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
1	• Other
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
ield tillage	104
Data element name: Field tillage	Reporting question: What is this field's tillage history?
Description: Prior to enrollment, what w	as the most common tillage approach during the past 3 years?
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	None
	Conventional, inversion
	 Conventional, vertical
	 No-till, direct seed
	 Reduced till, inversion
	Reduced till, vertical
	Strip till
	• Other
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment

Practice past extent - farm	
Data element name: Practice past extent - farm Description: Prior to enrollment, on what port used by the primary operator? If multiple pract that best corresponds to the farm's prior expe	Reporting question: What percent of the farm has implemented this CSAF practice (combination) previously? ion of the whole farm had this (these) CSAF practice(s) ever been tices are planned to be implemented in this field, enter the value
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
incustrement units esteboly	Never used
	 Used on less than 25% of operation
	Used on 25-50% of operation
	 Used on 51-75% of operation
	 Used on more than 75% of operation
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
Field any CSAF practice	
Data element name: Field any CSAF practice	Reporting question: What is this field's prior experience with CSAF practices?
Description: Prior to enrollment, have any CSA CSAF practices are included in a list in Appendi	F practice or practices been used in this field in the past 3 years? x A.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Yes
	No
Logic: None - all respond	I don't know Required: Vec
Eugle: None – an respond	Required. Tes
Data collection level: Field	Data collection frequency: Initial enrollment
Practice past use - this field	
field	heap implemented proviously in this field?
Description: Prior to enrollment, had this (the	se) CSAE practice(s) been used in this field in the in the nast 3
years? Enter yes if all of the practices had been being implemented and one or more, but not a enter no if none of the practices had been use	n used previously in this field; enter some if multiple practices are all of the practices had been used previously in this field; and d previously in this field.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Some
	 No
	I don't know
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment

Practice type	
Data element name: Practice type 1-7	Reporting question: What CSAF practice is being implemented in this field through the project?
Description: Which CSAF practice or practices project? CSAF practices are included in a list i element. Enter one value for each column. If through enrollment in the project, leave unner Data type: List	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 accessary columns blank. Select multiple values: No
Measurement unit: Category	Allowed values: See list in Appendix A
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
Practice standard	
Data element name: Practice standard 1-7	Reporting question: What standard does the CSAF practice follow?
defined practice standard? The worksheet pro each column, corresponding to the practice to practices being implemented on this field thro Data type: List	mented on the field as part of enrollment in the project following a ovides seven columns for this data element. Enter one value for ypes entered in the previous columns. If there are fewer than 7 ough enrollment in the project, leave unnecessary columns blank. Select multiple values: No
Measurement unit: Category	Allowed values: NRCS Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
Planned practice implementation year	
Data element name: Practice 1-7 implementation year	Reporting question: What year is the CSAF practice planned to be implemented?
Description: Year that the CSAF practice is pla defined as fields that have the practice active project). The worksheet provides seven colun corresponding to the practice types entered i implemented on this field through enrollmen Data type: Integer	Inned 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
Measurement unit: Year	Allowed values: 2022-2030
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment
Practice extent	
Data element name: Practice 1-7 extent	Reporting question: To what extent is the practice implemented?
Description: Total area, length, or head when contract.	e the practice is being implemented in the field specified by the
Data type: Decimal	Select multiple values: No
Measurement unit: Extent	Allowed values: .01- 100,000
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Initial enrollment

Practice extent unit	
Data element name: Practice 1-7 extent unit	Reporting question: Unit for extent of practice implementation
Description: Unit for extent of practic	e 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	44 11
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	ed 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?
Description: List up to four reasons for prod incentive for each reason. The worksheet p Choose one value for each column. If there "other" is chosen, use the additional colum Data type: List	ducer incentive payments. List the top 4 based on total value of the rovides four columns with a drop-down list of the allowed values. are fewer than 4 reasons, leave unnecessary columns blank. If n to enter other reasons as free text. Select multiple values: No
Measurement unit: Category	Allowed values:
Measurement unit. Category	Avoided conversion
	Conference or training attendance
	Demographics/equity payment
	Enrollment
	Enregone revenue
	Historic data collection
	Identity preservation (supply chain tracing)
	Implementation of practices
	 MMRV (e.g., data collection, reporting)
	Passing audit
	Price premium on output
	Yield change
	Other (specify)
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Quarterly
ncentive structure	
ncentive structure Data element name: Incentive structure 1-4	4 Reporting question: What are the units for the financial incentives provided to this producer?
ncentive structure Data element name: Incentive structure 1-4	4 Reporting question: What are the units for the financial incentives provided to this producer? A sponding to the top 4 (by dollar value) incentive payments to top 4 (by dollar value) incentive payments to top 4 (by dollar value) incentive payments to top 4 (by dollar value) incentive
ncentive structure Data element name: Incentive structure 1-4 Description: List the structures (units) corre	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 use (bushel kilogram ton). The worksheet provides four columns.
ncentive structure Data element name: Incentive structure 1 Description: List the structures (units) corre producers. Production unit is weight or volu with a drop-down list of the allowed values	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 ume (bushel, kilogram, ton). The worksheet provides four columns . Choose one value for each column. If there are fewer than 4
ncentive structure Data element name: Incentive structure 1-4 Description: List the structures (units) corre producers. Production unit is weight or volu with a drop-down list of the allowed values structure types, leave unnecessary columns	 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 ume (bushel, kilogram, ton). The worksheet provides four columns Choose one value for each column. If there are fewer than 4 blank. If "other" is chosen, use the additional column to enter othe
ncentive structure Data element name: Incentive structure 1 Description: List the structures (units) corre producers. Production unit is weight or volu with a drop-down list of the allowed values structure types, leave unnecessary columns structure types as free text.	 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 ume (bushel, kilogram, ton). The worksheet provides four columns Choose one value for each column. If there are fewer than 4 blank. If "other" is chosen, use the additional column to enter othe
ncentive structure Data element name: Incentive structure 1 Description: List the structures (units) corre producers. Production unit is weight or volu with a drop-down list of the allowed values structure types, leave unnecessary columns structure types as free text. Data type: List	 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 ume (bushel, kilogram, ton). The worksheet provides four columns Choose one value for each column. If there are fewer than 4 blank. If "other" is chosen, use the additional column to enter othe Select multiple values: No
ncentive structure Data element name: Incentive structure 1- Description: List the structures (units) corre producers. Production unit is weight or volu with a drop-down list of the allowed values structure types, leave unnecessary columns structure types as free text. Data type: List Measurement unit: Category	 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 ume (bushel, kilogram, ton). The worksheet provides four columns. Choose one value for each column. If there are fewer than 4 blank. If "other" is chosen, use the additional column to enter othe Select multiple values: No
ncentive structure Data element name: Incentive structure 1 Description: List the structures (units) corre producers. Production unit is weight or volu with a drop-down list of the allowed values structure types, leave unnecessary columns structure types as free text. Data type: List Measurement unit: Category	 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 ume (bushel, kilogram, ton). The worksheet provides four columns. Choose one value for each column. If there are fewer than 4 is blank. If "other" is chosen, use the additional column to enter othe Select multiple values: No Allowed values:
ncentive structure Data element name: Incentive structure 1 Description: List the structures (units) corre producers. Production unit is weight or volu with a drop-down list of the allowed values structure types, leave unnecessary columns structure types as free text. Data type: List Measurement unit: Category	 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 ume (bushel, kilogram, ton). The worksheet provides four columns Choose one value for each column. If there are fewer than 4 blank. If "other" is chosen, use the additional column to enter othe Select multiple values: Flat rate Per animal bead
ncentive structure Data element name: Incentive structure 1 Description: List the structures (units) corre producers. Production unit is weight or volu with a drop-down list of the allowed values structure types, leave unnecessary columns structure types as free text. Data type: List Measurement unit: Category	 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 ume (bushel, kilogram, ton). The worksheet provides four columns choose one value for each column. If there are fewer than 4 blank. If "other" is chosen, use the additional column to enter othe Select multiple values: No Allowed values: Flat rate Per animal head Per area
ncentive structure Data element name: Incentive structure 1 Description: List the structures (units) corre producers. Production unit is weight or volu with a drop-down list of the allowed values structure types, leave unnecessary columns structure types as free text. Data type: List Measurement unit: Category	 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 ume (bushel, kilogram, ton). The worksheet provides four columns. Choose one value for each column. If there are fewer than 4 is blank. If "other" is chosen, use the additional column to enter othe Select multiple values: No Allowed values: Flat rate Per animal head Per length
ncentive structure Data element name: Incentive structure 1- Description: List the structures (units) corre producers. Production unit is weight or volu with a drop-down list of the allowed values structure types, leave unnecessary columns structure types as free text. Data type: List Measurement unit: Category	 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 ume (bushel, kilogram, ton). The worksheet provides four columns. Choose one value for each column. If there are fewer than 4 is blank. If "other" is chosen, use the additional column to enter othe Select multiple values: No Allowed values: Flat rate Per animal head Per length Per production unit
ncentive structure Data element name: Incentive structure 1 Description: List the structures (units) corre producers. Production unit is weight or volu with a drop-down list of the allowed values structure types, leave unnecessary columns structure types as free text. Data type: List Measurement unit: Category	 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 ume (bushel, kilogram, ton). The worksheet provides four columns choose one value for each column. If there are fewer than 4 blank. If "other" is chosen, use the additional column to enter other Select multiple values: No Allowed values: Flat rate Per animal head Per length Per ton GHG
Data element name: Incentive structure 1- Description: List the structures (units) corre producers. Production unit is weight or volu with a drop-down list of the allowed values structure types, leave unnecessary columns structure types as free text. Data type: List Measurement unit: Category	 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 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 other Select multiple values: No Allowed values: Flat rate Per animal head Per length Per ton GHG Per tree
Data element name: Incentive structure 1- Description: List the structures (units) corre producers. Production unit is weight or volu with a drop-down list of the allowed values structure types, leave unnecessary columns structure types as free text. Data type: List Measurement unit: Category	 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 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 select multiple values: No Allowed values: Flat rate Per animal head Per area Per length Per ton GHG Per tree Other (specify)

 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 incent	ive payments to producers (based on dollar value). The worksheet
are fewer than 4 incentive types leave up	inscort the allowed values. Choose one value for each column. If there in ecessary columns blank. If "other" is chosen use the additional
column to enter other incentive types, leave an	ree text.
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Cash payment
	Equipment loan
	 Guaranteed commodity premium payment
	Inputs and supplies
	Land rental
	Loan
	Paid labor
	Post-harvest transportation
	Other (specify)
Logic: None - all respond	Other (specify) Required: Yes
Data collection level: Producer	Data collection frequency: Quarterly
Payment on enrollment	
Data element name: Payment on	Reporting question: What portion of the financial incentive is
enrollment	provided to the producer upon enrollment in the project?
Description: Any incentive payment provi	ded to the producer upon enrollment/signing a contract, and not
related to any implementation. MMRV or	sales activities. Full payment means the full incentive amount for any
contract held by the producer is paid upor	n 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	n enrollment. Partial payment means that only part of the full v the producer is paid upon enrollment. No payment means that none
contract held by the producer is paid upor incentive amount for any contract held by of the full incentive amount for any contra	n enrollment. Partial payment means that only part of the full v the producer is paid upon enrollment. No payment means that none act held by the producer is paid upon enrollment.
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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	n enrollment. Partial payment means that only part of the full the producer is paid upon enrollment. No payment means that none act 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
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	Reporting question: What portion of the financial incentive is provided to the producer upon baryest of the commodity?
Description: Any incentive payment provide	d to the producer upon harvesting or slaughtering the commodity
included in the contract. Full payment mean	s the full incentive amount for any contract held by the producer is
paid upon harvest. Partial payment means th	hat only part of the full incentive amount for any contract held by
the producer is paid upon harvest. No payme	ent means that none of the full incentive amount for any contract
held by the producer is paid upon harvest.	
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Full payment
	Partial payment
	No payment
Logic: None – all respond	Required: Yes
Data collection level: Producer	Data collection frequency: Quarterly
ayment on MMRV	
Data element name: Payment on MMRV	Reporting question: What portion of the financial incentive is provided to the producer upon completing MMRV requirements?
Description: Any incentive payment provide included in the contract. Full payment mean paid upon MMRV being complete. Partial pa contract held by the producer is paid upon M	d to the producer upon completing the annual MMRV requirements is the full incentive amount for any contract held by the producer is syment means that only part of the full incentive amount for any MMRV being complete. No payment means that none of the full
incentive amount for any contract held by th	ne producer is paid upon MMRV being complete.
incentive amount for any contract held by the Data type: List	ne producer is paid upon MMRV being complete. Select multiple values: No
incentive amount for any contract held by th Data type: List Measurement unit: Category	ne producer is paid upon MMRV being complete. Select multiple values: No Allowed values:
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incentive amount for any contract held by the Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale	he producer is paid upon MMRV being complete. Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity?
incentive amount for any contract held by th Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provide	he producer is paid upon MMRV being complete. Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? d to the producer upon sale of the commodity included in the
incentive amount for any contract held by the Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Producer Payment on sale Data element name: Payment on sale Description: Any incentive payment provide contract. Full payment means the full incent	he producer is paid upon MMRV being complete. Select multiple values: No Allowed values: Full payment Partial payment No payment Required: Yes Data collection frequency: Quarterly Reporting question: What portion of the financial incentive is provided to producer upon sale of the commodity? I 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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Field Summary	
Unique IDs	
Farm ID	Unique Farm ID assigned by FSA
Tract ID	Unique Tract ID assigned by FSA
Field ID	Unique Field ID assigned by FSA
State or territory of field	State name (must match FSA farm enrollment data)
County of field	County name (must match FSA farm enrollment data)
Commodity type	
Data element name: Commodity type	Reporting question: What type of commodity is produced from this field?
Description: Type of commodity produce worksheet provides multiple columns of column. Leave unnecessary columns be Data type: List	iced in field enrolled in the project. See full list in Appendix B. The with a drop-down list of the allowed values. Choose one value for each lank. Select multiple values: No
Measurement unit: Category	Allowed values: FSA commodity list
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Practice type	
Data element name: Field practice typ Description: Which climate-smart agric this project? CSAF practices are include data element. Enter one value for each field through enrollment in the project Data type: List	e 1-7 Reporting question: What CSAF practice is being implemented in this field through the project? culture or forestry (CSAF) practice or practices are being implemented in ed in a list in Appendix A. The worksheet provides seven columns for this in column. If there are fewer than 7 practices being implemented on this c, leave unnecessary columns blank. Select multiple values: No
Measurement unit: Category	Allowed values: See list in Appendix A
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Date practice complete	
Data element name: Date practice cor	nplete Reporting question: When did the project certify CSAF practice implementation as complete?
Description: Date that the project cert Use January of the year prior to contra implemented in the year prior to a con seven columns for this data element. E entered in the previous columns. If the enrollment in the project, leave unnect Data type: Date	ifies that implementation of the CSAF practice is complete on the field. ct year for early adopters, defined as fields that have the practice actively itract associated with this project is signed). The worksheet provides inter one value for each column, corresponding to the practice types ere are fewer than 7 practices being implemented on this field through essary columns blank. Select multiple values: No
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023 – 12/31/2030
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly

Contract end date	
Data element name: Contract end date	Reporting question: Contract end date
Description: End date listed on the contract that er submit updated end date during the next quarter's	rrolls the field in the project. If contract end date changes, reporting.
Data type: Date	Select multiple values: No
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023 – 12/31/2030
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
MMRV assistance provided	
Data element name: MMRV assistance provided	Reporting question: Was MMRV assistance provided?
Description: Was any MMRV assistance provided to includes in-field support for the use of technologies support related to MMRV. MMRV is defined a meas monitoring (ongoing review and confirmation that t to the agreed upon standard and documentation of impacts over time), reporting (documenting and sha partners, the recipient, and any third-party verificat confirmation that measurement, monitoring and re	the primary operator for this field? MMRV assistance , consultation on data collection and input, and other surement (calculations or estimations of GHG emissions), the climate-smart practice has been implemented according any changes in the site, implementation, or GHG emissions aring monitoring and measurement results with project ion organization), and verification (independent porting information are complete, accurate and reliable).
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	Yes No
	 I don't know
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Marketing assistance provided	
Data element name: Marketing assistance provided	Reporting question: Was marketing assistance provided?
Description: Was any marketing assistance provided from this field? Marketing assistance includes guara for the sale of the commodity(ies), providing a label Data type: List	d to the primary operator for the commodity(ies) produced inteeing 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:
	• 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?
Description: Is this field receiving an incentive paym	nent to implement a specific CSAF practice or set of practices
on a per-acre or per-head (livestock) basis?	a tao filia availa da filia availa
Data type: List	Select multiple values: No
Measurement unit: Category	Allowed values:
	res No
	 I don't know
Logic: None – all respond	Required: Yes
12	Data collection from the Outstand

Field commodity value	
Data element name: Field commodity value	Reporting question: What is the value of the commodity produced on the enrolled field?
Description: The dollar value of the commodity	produced on the enrolled field.
Data type: Decimal	Select multiple values: No
Measurement unit: Dollars	Allowed values: \$1-\$10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
ield commodity volume	
Data element name: Field commodity volume	Reporting question: What is the volume of commodity produced on the enrolled field?
Description: The volume of the commodity proc	duced on the enrolled field
Data type: Decimal	Select multiple values: No
Measurement unit: Number	Allowed values: 1-10,000,000
Logic: None – all respond	Required: Yes
Data collection level: Field	Data collection frequency: Quarterly
Field commodity volume unit	
unit	
unit Description: The unit associated with the volum chosen, enter the appropriate value in the addit Data type: List Measurement unit: Category	ne of the commodity produced on the enrolled field. If "other" is tional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Tons Other (specify)
unit Description: The unit associated with the volum chosen, enter the appropriate value in the addit Data type: List Measurement unit: Category Logic: None – all respond	ne of the commodity produced on the enrolled field. If "other" is tional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Tons Other (specify) Required: Yes
unit Description: The unit associated with the volum chosen, enter the appropriate value in the addit Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field	ne of the commodity produced on the enrolled field. If "other" is tional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Pounds Other (specify) Required: Yes Data collection frequency: Quarterly
unit Description: The unit associated with the volum chosen, enter the appropriate value in the addit Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field Cost of implementation	ne of the commodity produced on the enrolled field. If "other" is tional 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
unit Description: The unit associated with the volum chosen, enter the appropriate value in the addit Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field Cost of implementation Data element name: Cost of implementation	ne of the commodity produced on the enrolled field. If "other" is tional 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?
unit Description: The unit associated with the volum chosen, enter the appropriate value in the addit Data type: List 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 un	ne of the commodity produced on the enrolled field. If "other" is tional 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? it of implementing the practice(s) in the enrolled field.
unit Description: The unit associated with the volum chosen, enter the appropriate value in the addit Data type: List 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 un Data type: Decimal	ne of the commodity produced on the enrolled field. If "other" i tional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Pounds Tons Other (specify) Required: Yes Data collection frequency: Quarterly Reporting question: What is the cost of practice implementation in the field? it of implementing the practice(s) in the enrolled field. Select multiple values: No
unit Description: The unit associated with the volum chosen, enter the appropriate value in the addit Data type: List 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 un Data type: Decimal Measurement unit: Dollars	ne of the commodity produced on the enrolled field. If "other" i tional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Pounds Tons Other (specify) Required: Yes Data collection frequency: Quarterly Reporting question: What is the cost of practice implementation in the field? it of implementing the practice(s) in the enrolled field. Select multiple values: No Allowed values: \$1-\$10,000,000
unit Description: The unit associated with the volum chosen, enter the appropriate value in the addit Data type: List Measurement unit: Category Logic: None – all respond Data collection level: Field Cost of implementation Data element name: Cost of implementation Data type: Decimal Measurement unit: Dollars Logic: None – all respond	ne of the commodity produced on the enrolled field. If "other" i tional column. Select multiple values: No Allowed values: Bushels Carcass weight pounds Gallons Head Linear feet Liveweight pounds Pounds Pounds Tons Other (specify) Required: Yes Data collection frequency: Quarterly Reporting question: What is the cost of practice implementation in the field? it of implementing the practice(s) in the enrolled field. Select multiple values: No Allowed values: \$1-\$10,000,000 Required: Yes

Cost unit		
Data element name: Cost unit	Reporting question: What is the unit for cost?	
Description: The unit associated with the o	cost of implementing CSAF practices in the field. If "other" is chosen,	
enter the appropriate value in the addition	nal column.	
Data type: List	Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Per acre	
	Per bushel	
	Per head Ber linear fact	
	Per neund Per neund	
	Perton	
	Other (specify)	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	
Cost coverage	La esta a successa en conset anares I a categoria da la	
Data element name: Cost coverage	Reporting question: What percent of the practice cost is	
	covered by the incentive?	
Description: Estimated proportion of total incentives.	annual cost of implementing the practice(s) that is covered by project	
Data type: Integer	Select multiple values: No	
Measurement unit: Percent	Allowed values: 0-100	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	
Field GHG monitoring		
Data element name: Field GHG monitoring	g Reporting question: How were GHG impacts monitored in this	
1-3	field?	
Description: Up to the top three forms of it is defined as ongoing review and confirma- to the agreed upon standard and documer impacts over time. Include up to 3 method The worksheet provides three columns with column. If fewer than 3 GHG monitoring m chosen, use the additional column to enter Data type: List	monitoring GHG benefits as part of MMRV requirements. Monitoring tion that the climate-smart practice has been implemented according ntation of any changes in the site, implementation, or GHG emissions is, 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 r other GHG monitoring methods as free text. Select multiple values: No	
Measurement unit: Category	Allowed values:	
	Drones Ground level photos and videos	
	On-farm inspection	
	Plot-based sampling (e.g., soil, water)	
	 Producer records or attestation 	
	 Satellite monitoring or remote sensing 	
	Soil metagenomics	
	Soil sensors	
	Water sensors	
0 27 200 M21 G	Other (specify)	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	

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

Field GHG calculations			
Data element name: Field GHG	Reporting question: What methods are used to calculate GHG		
calculations	benefits in this field?		
Description: List the method(s) used to calc	ulate GHG benefits in this field. If yes to direct physical		
measurements, submit result reports (see S	Supplemental Data Submission – Field direct GHG measurement		
results). Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
Measurement unit: Category	Models		
	Direct field measurements		
	• Both		
Logic: None – all respond	Required: Yes		
Data collection level: Field	Data collection frequency: Quarterly		
Field official GHG calculation			
Data element name: Field official GHG	Reporting question: What method was used to calculate the		
calculation	official GHG benefits in this field?		
Description: List the method used to calcula	ate the official GHG benefits in this field that are reported as part of		
the project's aggregate impact.	Calast multiple values. No		
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 FR			
Data element name: Field official GHG	Reporting question: What are the estimated total GHG emission		
emission reductions	reductions (CO2eg) in this field?		
Description: Estimated greenhouse gas emi	ission reductions from practice implementation in this field that are		
reported as part of the project's aggregate	impact. This data element must be entered upon practice completion		
or annually, as appropriate.			
Data type: Decimal	Select multiple values: No		
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000		
Logic: None – all respond	Required: Yes		
Data collection level: Field	Data collection frequency: Quarterly		
Field official carbon stock			
Data element name: Field official carbon	Reporting question: How much carbon has been sequestered in		
stock	this field?		
Description: Estimated total change in carb	on stock based on practice implementation in this field. This data		
2.67 tons of CO.og	I is cumulative for the year. Conversion rate is one ton of carbon =		
Data type: Decimal	Select multiple values: No		
Measurement unit: Metric tons CO-eq	Allowed values: 0-10 000 000		
Logic: None - all respond	Required: Ves		
Data collection level: Field	Data collection from once: Quartarbu		
Data conection level. Field	Data collection nequency. Qualterly		

Field official CO2 ER		
Data element name: Field official CO2 emission reductions Description: Estimated total carbon dioxide e	Reporting question: What are the estimated total CO2 emission reductions in this field? emission reductions based on practice implementation in this field	
that are reported as part of the project's agg	regate impact. This data element must be entered upon practice	
completion or annually, as appropriate.	Select multiple values: No	
Macaurament unit: Matric tons (O	Allowed uplaces: 0, 10,000,000	
legic None all respond	Allowed values: 0-10,000,000	
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	
Field official CH4 ER	Departing quanties, What are the actimated total CUA	
reductions	emission reductions in this field?	
Description: Estimated total methane emissi	on reductions based on practice implementation in this field that	
are reported as part of the project's aggregation	te impact. This data element must be entered upon practice	
completion or annually, as appropriate. Conv	version rate is one ton of $CH_4 = 25$ tons of CO_2eq .	
Data type: Decimal	Select multiple values: No	
Measurement unit: Metric tons CH4 reduced	in Allowed values: 0-10,000,000	
CO ₂ eq		
Logic: None – all respond	Required: Yes	
Data collection level: Field	Data collection frequency: Quarterly	
Field official N20 ER		
Data element name: Field official N2O emiss reductions	ion Reporting question: What are the estimated total N2O emission reductions in this field?	
Description: Estimated total nitrous oxide en that are reported as part of the project's agg completion or annually, as appropriate. Conv	nission reductions based on practice implementation in this field regate impact. This data element must be entered upon practice version rate is one ton of $N_2O = 298$ tons of CO_2eq .	
Management with Matria tana N2O and	die Alleure durcheren 0.10.000.000	
COred	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 as having been verified and certified using ar Data type: Decimal	h the field during the quarter (not cumulative). Offsets are defined accepted 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: Field	Data collection frequency: Quarterly	

Field insets produced		
Data element name: Field insets produced	Reporting question: How many carbon insets have been produced in this field?	
Description: Total carbon insets produced in having been verified and certified using an a firm.	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?	
Description: Direct physical measurements of benefits estimation. These reasons could inc 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

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

GHG model			
Data element name: GHG model	Reporting question: What model was used for alternate calculation of GHG benefits?		
Description: Select the model used	for the alternate calculation of the field's GHG benefits.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
Weasurement unit. Category	ACC Calculator		
	Agriculture Forestry and Other Land Lise (AFOLLI) Carbon Calculator		
	AIRES		
	APEX		
	Bowen Ratio Energy Balance		
	Carat-Calculator		
	• CArPE		
	CDFA web-based calculator		
	COMET-Farm		
	COMET-Planner		
	CoolFarm		
	Cover Crop Explore		
	CropTrak		
	CultivateAl's FMIS		
	DayCent-CR		
	DNDC		
	DSSAT		
	Earth Optics		
	EcoPractices		
	EPIC		
	 Extrapolation based on literature 		
	FieldPrint		
	Granular		
	• GREET		
	• gTIR		
	IFSM		
	 IPCC default emissions factors & models 		
	• itree		
	Nitrogen Balance		
	 Nutrient Tracking Tool (NTT) 		
	RCD Project Tracker		
	 Revised Universal Soil Loss equation 2 (RUSLE2) 		
	RuFaS		
	SAFE-Link		
	SALUS (CIBO)		
	SNAPGRAZE		
	SquareRoots		
	• SWAT-C		
	SYMFONI		
	Truterra Sustainability Tool		
	Verra		
	• WEPP		
	YardStick		
. datable wy trional - Park Market - Park	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	s begin.	
Data type: Date	Select multiple values: NA	
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/1950 - 12/31/2030	
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods	
Data collection level: Field	Data collection frequency: Annual	
Model end date		
Data element name: Model end date	Reporting question: For what time period are the GHG benefits modeled (model end date)?	
Description: Date that the model parameter	s end.	
Data type: Date	Select multiple values: NA	
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023-12/31/2030	
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods	
Data collection level: Field	Data collection frequency: Annual	
Total GHG benefits estimated		
Data element name: Total GHG benefits	Reporting question: What is the alternate estimate of the field's	
estimated	total GHG emission reductions?	
Description: Total greenhouse gas emission	reductions from practice implementation in the field estimated	
Data type: Decimal	Select multiple values: No	
Measurement unit: Metric tons COreg	Allowed values: 0-10 000 000	
logic: None - all respond	Required a liferciest calculates CHC benefits using multiple	
Logic: None – an respond	methods	
Data collection level: Field	Data collection frequency: Annual	
Total carbon stock estimated		
Data element name: Total carbon stock	Reporting question: What is the alternate estimate of how much	
Description: Total change in carbon stock ba	sed on practice implementation in the field estimated using an	
alternate model. Conversion rate is one ton	of carbon = 3.67 tons of CO ₂ eq.	
Data type: Decimal	Select multiple values: No	
Measurement unit: Metric tons CO2eq	D ₂ eq Allowed values: 0-10,000,000	
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods	
Data collection level: Field	Data collection frequency: Annual	
Total CO2 estimated	2 2	
Data element name: Total CO2 estimated	Reporting question: What is the alternate estimate of the field's	
	total CO2 emission reductions?	
Description: Total carbon dioxide emission re 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	

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Total CH4 estimated	
Data element name: Total CH4 estimated	Reporting question: What is the alternate estimate of the field's total CH4 emission reductions?
Description: Total methane emission reductions based on praca an alternate model. Conversion rate is one ton of CH ₄ = 25 ton	tice implementation in the field estimated using s of CO₂eq.
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons CH4 reduced in CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods
Data collection level: Field	Data collection frequency: Annual
Total field N20 estimated	
Data element name: Total N2O estimated	Reporting question: What is the alternate estimate of the field's total N2O emission reductions?
Description: Total nitrous oxide emission reductions based on using an alternate method. Conversion rate is one ton of N_2O =	practice implementation in the field estimated = 298 tons of CO ₂ eq.
Data type: Decimal	Select multiple values: No
Measurement unit: Metric tons N2O reduced in CO2eq	Allowed values: 0-10,000,000
Logic: None – all respond	Required: If project calculates GHG benefits using multiple methods
Data collection level: Field	Data collection frequency: Annual

GHG Benefits - Measured

Unique IDs		
Farm ID	Unique Farm ID assigned	by FSA
Tract ID	Unique Tract ID assigned	by FSA
Field ID	Unique Field ID assigned	by FSA
State or territory of field	State name (must match	FSA farm enrollment data)
County of field	County name (must mat	ch FSA farm enrollment data)
GHG measurement method		
Data element name: GHG measu Description: Field-based measure	rement method ement method used to calcula	Reporting question: What measurement method is used to calculate GHG benefits? te GHG benefits. If "other" is chosen, enter the
appropriate value as free text in t	the additional column.	
Data type: List		Select multiple values: No
Measurement unit: Category		Allowed values:
Logic: None – all respond Data collection level: Field		 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 frequency:
Lab name		rational.
Data element name: Lab name	Repo	orting question: What is the name of the lab that essed the measurement samples?
Description: Name of entity that	received data and conducted	analysis of samples.
Data type: Text	Selec	t multiple values: No
Measurement unit: NA	Allow	ved values: Free text
Logic: None – all respond	Requ	ired: If applicable
Data collection level: Field	Data	collection frequency: Annual

Measurement start date			
Data element name: Measurement start date	Reporting question: On what date did the measurement start?		
Description: Date that the measurements began. If it was a single point in time, use the same date for start date			
and end date. If multiple measurements took place over a time period, use the date that the measurements first			
began.			
Data type: Date	Select multiple values: No		
Measurement unit: MM/DD/YYYY	Allowed values: 01/01/2023 - 12/31/2030		
Logic: None – all respond	Required: If a project conducts soil samples or takes carbon stock or greenhouse gas emission measurements in this field		
Data collection level: Field	Data collection frequency: Annual		
Measurement end date			
Data element name: Measurement end date	Reporting question: On what date did the		
	measurement end?		
Description: Date that the measurements began. If it was	s a single point in time, use the same date for start date		
and end date. If multiple measurements took place over were completed.	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 based	Reporting question: What are the total measured CO2 emission reductions? I on practice implementation in the field calculated		
from In-field measurements.	Select multiple values. No		
Data type: Decimal	Select multiple values: No		
Measurement unit: Metric tons CO ₂	Allowed values: 0-10,000,000		
Logic: None – all respond	Required: If a project takes carbon stock or greenhouse gas emission measurements in this field		
Data collection level: Field	Data collection frequency:		
Total field carbon stack measured	Annual		
Data element name: Total field carbon stock	Paparting question: What is the total amount of		
measured	carbon sequestered based on repeat measurements in this field?		
Description: Change in carbon stock based on practice in sampling in this field. (Results for initial field soil samples	nplementation in the field calculated from repeat soil should be reported in the 'Soil sample result' and		
'Measurement type" columns.) Conversion rate is one to Data type: Decimal	n of carbon = 3.67 tons of CO ₂ eq. Select multiple values: No		
Measurement unit: Metric tons CO2eq	Allowed values: 0-10,000,000		
Logic: None – all respond	Required: If a project conducts soil samples or takes carbon stock measurements in this field		
Data collection level: Field	Data collection frequency: Annual		

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	of $CH_4 = 25$ tons of CO_2eq .		
Data type: Decimal	Select multiple values: No		
Measurement unit: Metric tons CH4 reduced in CO2eq	Allowed values: 0-10,000,000		
Logic: None – all respond	Required: If a project conducts soil samples or takes carbon stock or greenhouse gas emission measurements in this field		
Data collection level: Field	Data collection frequency: Annual		
Total N20 reduction calculated			
Data element name: Total N2O reduction calculated	Reporting question: What are the total measured N2O emission reductions?		
Description: Total annual nitrous oxide emission reduction calculated from in-field measurements. Conversion rate in Data type: Decimal	ons based on practice implementation in the field s one ton of N ₂ O = 298 tons of CO ₂ eq. 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 determi in a specified volume of soil).	ne the carbon stock of a soil (the tons of carbon found		
Data type: Decimal	Select multiple values: No		
Measurement unit: Amount	Allowed values: .00001-100,000		
Logic: None – all respond	Required: If a project conducts soil samples in this field		
Data collection level: Field	Data collection frequency: Annual		

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

IIn	in	÷.	~ Ì	De
UII	ч	u	E 1	US

o migae ino		
Farm ID	Unique Farm ID assigned by FSA	
Tract ID	Unique Tract ID assigned by FSA	Ū.
Field ID	Unique Field ID assigned by FSA	
State or territory of field	territory of field State name (must match FSA farm enrollment data)	
County of field	County name (must match FSA farm enrollment data)	
2		

Environmental benefits			
Data element name: Environmental benefits	Reporting question: Are environmental benefits other than GHGs being tracked in the field?		
Description: Tracking of environmental bene sequestration in the enrolled field. Tracking r that can quantify benefits.	fits other than greenhouse gas emission reductions and carbon means at a minimum using some form of monitoring and reporting		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	• Yes		
	• No		
	I don't know		
Logic: None – all respond	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Reduction in nitrogen loss			
Data element name: Reduction in nitrogen loss	Reporting question: Are reductions in nitrogen losses being tracked in the field?		
Description: Tracking reductions in nitrogen some form of monitoring and reporting that	losses in the enrolled field. Tracking means at a minimum using can quantify benefits.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Yes		
	• No		
	 I don't know 		
Logic: Respond if yes to 'Environmental benefits'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Reduction in nitrogen loss amount			
Data element name: Reduction in nitrogen loss amount	Reporting question: How much reduction in nitrogen losses have been measured in the field?		
Description: Total amount of reduction in hit	rogen 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		
Reduction in nitrogen loss amount unit			
--	--	--	--
Data element name: Reduction in nitrogen	Reporting question: What is the unit for how much reduction in		
loss amount unit	nitrogen losses have been measured in the field?		
Description: Unit for the total amount of red	reduction in nitrogen losses that is measured and reported in the		
enrolled field. If "other" is chosen, enter the	appropriate value as free text in the additional column.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Kilograms		
	Metric tons		
	Pounds		
	Other (specify)		
Logic: Respond if yes to 'Reduction in nitrogen loss'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Reduction in nitrogen loss purpose			
Data element name: Reduction in nitrogen	Reporting question: What is the purpose of tracking reduction in		
loss purpose	nitrogen losses?		
Description: Purpose of tracking reduction in	nitrogen losses in the enrolled field. If "other" is chosen, enter the		
appropriate value as free text in the addition	al column.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Commodity marketing		
	Producing insets		
	Producing offsets		
	 I don't know 		
	Other (specify)		
Logic: Respond if yes to 'Reduction in nitrogen loss'	Required: Yes		
Data collection level: Project	Data collection frequency: Annual		
Peduction in phosphorus loss	ಾರ್ ಕಾರ್ಯಕರ್ ಕರ್ಷಕರ ಮಾಡಿದ್ದ ಕಾರ್ಯಕರ್ ಕ್ರಿಯಾನ್ ಕಾರ್ಯಕರ್ ಕ್ರಿಯಾನಿಕಾಗಿದ್ದು.		
Data element name: Reduction in	Reporting question: Are reductions in phosphorus losses being		
nhosphorus loss	tracked in the field?		
Description: Tracking of reductions in phosp	horus losses in the enrolled field. Tracking means at a minimum		
using some form of monitoring and reporting	that can quantify benefits.		
Data type: List	Select multiple values: No		
Massurement unit: Catagory	Allowed values:		
Weasarement unit. Category	Allowed values.		
	• Tes		
	 No Idon't know 		
Logic: Respond if yes to (Environmental	Required: Ves		
henefits'	Required. Tes		
Data collection level: Field	Data collection frequency: Appual		
Deduction in abasehouse loss amount	bita concettori requencyi Annoa		
Data element name: Reduction in	Poperting question: How much reduction in phosphorus losses		
phosphorus loss amount	keporting question: How much reduction in phosphorus losses		
Description: Total amount of reduction in ph	osphorus losses that is measured in the field		
Dete time: Decimal	Colect multiple values: No.		
Data type: Decimal	Select multiple values: No		
Measurement unit: Amount	Allowed values: 0-1,000,000		
Logic: Respond if yes to 'Reduction in phosphorus loss'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		

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

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

Other water quality purpose			
Data element name: Other water quality	Reporting question: What is the purpose of tracking other water		
purpose	quality benefits?		
Description: Purpose of tracking other wate	r quality benefits in the enrolled field. If "other" is chosen, enter the		
appropriate value as free text in the additio	nal column.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	 Commodity marketing 		
	 Producing insets 		
	 Producing offsets 		
	 I don't know 		
o 21 847 12-2467 17 62569140 19	Other (specify)		
Logic: Respond if yes to 'Other water quality'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Water quantity			
Data element name: Water quantity	Reporting question: Is water conservation being tracked in the field?		
Description: Tracking of water conservation	or reduction in use in the enrolled field. Tracking means at a		
minimum using some form of monitoring ar	nd reporting that can quantify benefits.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Yes		
	• No		
	I don't know		
Logic: Respond if yes to 'Environmental benefits'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Water quantity amount			
Data element name: Water quantity amount	Reporting question: How much water conservation has been measured in the field?		
Description: Total amount of water conserv	ation or reduction that is measured in the field.		
Data type: Decimal	Select multiple values: No		
Measurement unit: Amount	Allowed values: 0-1,000,000		
Logic: Respond if yes to 'Water quantity'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Water quantity amount unit			
Data element name: Water quantity	Reporting question: What is the unit for the amount of water		
amount unit	conservation measured in the field?		
Description: Unit for the total amount of wa	ater conservation or reduced use that is measured and reported in		
the enrolled field. If "other" is chosen, enter	r the appropriate value as free text in the additional column.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Acre-feet		
	Cubic feet		
5 <u>5 2 (1732)</u> 2555 (20.5	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?		
Description: Purpose of tracking water conse	rvation or reductions in water use in the enrolled field. If "other" is		
chosen, enter the appropriate value as free to	ext in the additional column.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Commodity marketing		
	Producing insets		
	Producing offsets		
	I don't know Other (see if)		
Logic: Respond if yes to 'Water quantity'	Other (specify) Required: Ves		
Dete sellection levels field	Required. Tes		
Data collection level: Field	Data collection frequency: Annual		
Reduced erosion	Processory and a second could will a sect a sector between an entropy to the		
Data element name: Reduced erosion	Reporting question: Is reduced soil erosion being tracked in the field?		
Description: Tracking of reduced soil erosion	in the enrolled field. Tracking means at a minimum using some		
form of monitoring and reporting that can qu	antify 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		
Data collection level: Field	Data collection frequency: Appual		
Reduced erosion amount	buta concertor negating rannaa		
Data element name: Reduced erosion	Reporting question: How much erosion reduction has been		
amount	measured in the field?		
Description: Total amount of erosion reduction	on that is measured in the enrolled field.		
Data type: Decimal	Select multiple values: No		
Measurement unit: Amount	Allowed values: 0-1 000 000		
Logic: Bespand if yes to 'Reduced erosion'	Required Ves		
Data collection level: Field	Data collection frequency: Annual		
Paduad creation emount unit	Data conection frequency. Annual		
Data element name: Reduced erosion unit	Penorting question: What is the unit for the amount of erosion		
Data element name. Reduced erosion unit	reduction measured?		
Description: Unit for the total amount of ero	sion reduction from enrolled fields that is measured and reported		
by the project. If "other" is chosen, enter the Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
1991 - P	Tons		
	Other (specify)		
Logic: Respond if yes to 'Reduced erosion'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		

Reduced erosion purpose			
Data element name: Reduced erosion	Reporting question: What is the purpose of tracking reduced		
purpose	erosion in the field?		
Description: Purpose of tracking reduced ero	sion the enrolled field. If "other" is chosen, enter the appropriate		
Data type: List	Select multiple values: No		
Moacurement unit: Catagory	Allowed values		
weasurement unit. Category	Commodity marketing		
	Reducing insets		
	Producing insets Producing offsets		
	 Floudeling offsets I don't know 		
	Other (specify)		
Logic: Respond if yes to 'Reduced erosion'	Other (specify) Required: Ves		
Data collection level: Field	Data collection frequency: Annual		
Reduced energy use			
Data element name: Reduced energy use	Reporting question: Is reduced energy use being tracked in the		
Data element namer neaded 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	antify benefits.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	• Yes		
	No		
	I don't know		
Logic: Respond if yes to 'Environmental	Required: Yes		
benefits'			
Data collection level: Field	Data collection frequency: Annual		
Reduced energy use amount			
Data element name: Reduced energy use	Reporting question: How much energy use reduction has been		
amount	measured in the field?		
Description: Total amount of energy use red	duction that is measured in the enrolled field.		
Data type: Decimal	Select multiple values: No		
Measurement unit: Amount	Allowed values: 0-1,000,000		
Logic: Respond if yes to 'Reduced energy use'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Reduced energy use amount unit			
Data element name: Reduced energy use	Reporting question: What is the unit for the energy use		
unit	reduction measured in the field?		
Description: Unit for the total amount of ene	rgy use reduction that is measured in the enrolled field. If "other"		
is chosen, enter the appropriate value as free	ee text in the additional column.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Kilowatt hours		
	• Other (specify)		
Logic: Respond if yes to 'Reduced energy use'	kequirea: Yes		
Data collection level: Field	Data collection frequency: Annual		

Reduced energy use purpose			
Data element name: Reduced energy use	Reporting question: What is the purpose of tracking reduced		
purpose	energy use in the field?		
Description: Purpose of tracking reduced en	ergy use in the enrolled field. If "other" is chosen, enter the		
appropriate value as free text in the addition	Select multiple values: No		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Commodity marketing		
	Producing insets Draducing offects		
	Producing offsets		
	Other (coecify)		
Logic: Respond if yes to 'Reduced energy use'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Avoided land conversion			
Data element name: Avoided land	Reporting question: Is avoided land conversion being tracked in		
conversion	the field?		
Description: Tracking of avoided land conve	rsion in the enrolled field. Tracking means at a minimum using some		
form of monitoring and reporting that can q	uantify benefits. Land conservation means land use changing from		
agricultural uses to non-agricultural uses.			
Data type. List	Allowed waters wo		
Measurement unit: Category	Allowed values:		
	• Yes		
	 No I don't know 		
Logic: Respond if yes to 'Environmental	Bequired: Ves		
benefits'	Required. (cs		
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		
Logic: Respond if yes to 'Avoided land	Required: Yes		
conversion'	5555-3588-2004 ESO		
Data collection level: Field	Data collection frequency: Annual		
Avoided land conversion amount unit			
Data element name: Avoided land	Reporting question: What is the unit for the amount of avoided		
conversion unit	land conversion measured in the field?		
Description: Unit for the total amount of av	oided land conversion that is measured in the enrolled field. If		
other is chosen, enter the appropriate val	ue as free text in the additional column.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Acres Other (merify)		
Logic Perpendifyer to (Ausided land	Other (specify) Permined: Vec		
conversion'	nequileu: res		
Data collection level: Field	Data collection frequency: Annual		

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Avoided land conversion purpose			
Data element name: Avoided land	Reporting question: What is the purpose of tracking avoided		
conversion purpose	land conversion in the field?		
Description: Purpose of tracking avoided land	d conversion in the enrolled field. If "other" is chosen, enter the		
appropriate value as free text in the addition	al column.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	 Commodity marketing 		
	 Producing insets 		
	Producing offsets		
	Idon't know		
Levie Record Records (Accided Levie	Other (specify)		
conversion'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		
Improved wildlife habitat			
Data element name: Improved wildlife	Reporting question: Are improvements to wildlife habitat being		
habitat	tracked in the field?		
Description: Tracking of improvements to wi	dlife in and around the enrolled field. Tracking means at a		
minimum using some form of monitoring and	I reporting that can quantify benefits.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Yes		
	• No		
	I don't know		
Logic: Respond if yes to 'Environmental	Required: Yes		
Denetits	Data collection frequency: Appual		
Jaca collection level. Held	Data conection nequency. Annual		
Data element name: Improved wildlife	Poparting quarties: How much improved wildlife babitat bas		
habitat amount	Reporting question: How much improved wildlife habitat has been measured in the field?		
Description: Total amount of improved wildli	been 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 '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?		
Description: Unit for the total amount of imp	roved wildlife habitat that is measured in and around enrolled		
fields. If "other" is chosen, enter the appropr	iate value as free text in the additional column.		
Data type: List	Select multiple values: No		
Measurement unit: Category	Allowed values:		
	Acres		
	Linear feet		
	Other (specify)		
Logic: Respond if yes to 'Improved wildlife habitat'	Required: Yes		
Data collection level: Field	Data collection frequency: Annual		

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

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

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		Brassica
		Broadleaf
	222 1051 10	Cool season
	Conservation crop type	Grass
		Legume
		Warm season
	\	Added perennial crop
	Change implemented	Paducad fallow pariod
Conservation Crop Rotation	change implemented	Reduced fallow period
(CPS 328)	8	Conventional (alow object did
		Conventional (plow, chisel, disi
		No-till, direct seed
	Conservation crop rotation tillage type	Reduced till
		Strip till
		None
	27	Other (specify)
	Total conservation crop rotation length in days	1-120
	Strip width (feet)	1-100
Contour Buffer Strips (CPS	10 - Constant of Constant Constant Constant of Constan	Grasses
332)	Species category	Forbs
		Mix
		Brassicas
	Species category (select most	Forbs
	common/extensive type if using more	Grasses
	than one)	Legume
	chun eney	Non-legume broadleaves
	N	Grazing
	Cover crop planned management	Having
Cover Crop (CPS 340)	eaver crop planned mandgement	Termination
	\ <u>-</u>	Rurning
		Herbiside application
		Incorporation
	Cover crop termination method	Mowing
		Nowing Delline (minutes)
		Kolling/crimping
		Winter kill/frost
		Grass
Outplat A second second second	Species category (select most	Grass legume/forb mix
Critical Area Planting (CPS	common/extensive type if using more	Herbaceous woody mix
342)	than one)	Perennial or reseeding
		Shrubs
		Trees
	Crude protein (percent)	0-100
	Fat (percent)	0-100
Feed Management (CPS 592)		Chemical
9989999 - 58199939999 - 7822875388 - 663797 - 6637977 - 6637977 - 6637977 - 6637977 - 6637977 - 6637977 - 6637 	Food additives / supplements	Edible oils/fats
	reed additives/supplements	Seaweed/kelp
		Other (specify)
		Forbs
	Species category (select most	Grasses
FILLD I LODG DOG		
Field Border (CPS 386)	common/extensive type if using more	Mix

ies category (select most	Forbs	
Species category (select most common/extensive type if using more than one) Forbs Grasses Mix Shrubs		
use in previous year	Forest Multi-story cropping Pasture/grazing land Row crops Other agroforestry Maintain or improve forest carbon stocks Maintain or improve forest health and productivity Maintain or improve forest structure and composition Maintain or improve wildlife, fish, and pollinator habitat Manage natural precipitation more efficientl Reduce forest pest pressure Reduce forest wildfire hazard	
ose for implementation		
ies category (select most mon/extensive type if using e than one)	Flowering Plants Forbs Grasses	
ies category (select most mon/extensive type if using e than one)	Grasses Shrubs Trees	
ies density (number of trees ted per acre)	1-10,000	
ies category (select most mon/extensive type if using e than one)	Forbs Grasses Mix Shrubs	
er width (feet)	1-1,000	
ber of rows	1-100	
h type	Gravel Natural Synthetic Wood	
h cover (percent of field)	0-100	
	use in previous year ose for implementation ies category (select most mon/extensive type if using than one) ies category (select most mon/extensive type if using than one) ies density (number of trees ted per acre) ies category (select most mon/extensive type if using than one) ies category (select most mon/extensive type if using than one) er width (feet) ber of rows th type	

USDA Partnerships for Climate-Smart Commodities Data Dictionary for Recipient	S
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		Biosolids
		Commercial fertilizers
		Compost
		EEF (nitrification inhibitor)
		EEF (slow or controlled release)
	Nutricat time with CDS EQ0	EEF (urease inhibitor)
	Nutrient type with CPS 590	Green manure
		Liquid animal manure
		Organic by-products
		Organic residues or materials
		Solid/semi-solid animal manure
		Wastewater
	2	Banded
		Broadcast
		Injection
	Nutrient application method with CPS 590	Irrigation
	an an an an an an ann an an an an an an	Surface application
		Surface application with tillage
		Variable rate
	19	Banded
		Broadcast
Nutrient management		Injection
(CPS 590)	Nutrient application method in the previous	Irrigation
	year	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
	2	Single pre-planting
	Nutrient application timing in the previous year	Single post-planting
		Solit pre- and post-planting
		Solit post-planting
	Nutrient application rate with CBS 590	
	Muthent application rate with cr5 550	Gallons per acre
	Nutrient application rate unit with CPS 590	Pounds per acre
	Nuclent application rate unit with CF3 550	Founds per acre
	÷	Decrease compared to previous
	Nutrient application rate change	year
		Increase compared to previous
	And Register to Annal and an an and a state of the structure and a substrate of the structure of the structu	year
		No change
	Species estadory (select most	Cool-season broadleaf
	species category (select most	Cool-season grass
	common/extensive type if using more than	Warm-season broadleaf
Pasture and Hay Planting	one)	Warm-season grass
(CFS 512)		Grazing
	Termination process	Haying (i.e., cutting and baling)
	601	Other (specify)
		Cell grazing
Prescribed Grazing (CPS	Creating time	Deferred rotational
528)	отагив туре	Management intensive
		Rest-rotation

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Range Planting (CPS 550)	Species category (select most common/extensive type if using more than one)	Forbs Grasses Legumes Shrubs Trees
Residue and Tillage Management – No-till (CPS 329)	Surface disturbance	None Seed row only
Residue and Tillage Management – Reduced Till (CPS 345)	Surface disturbance	None Seed row/ridge tillage for planting Shallow across most of the soil surface Vertical/mulch
Riparian Forest Buffer	Species category (select most common/extensive type if using more than one)	Coniferous trees Deciduous trees Shrubs
(CP3 391)	Species density (number of trees planted per acre)	1-10,000
Riparian Herbaceous Cover (CPS 390)	Species category (select most common/extensive type if using more than one)	Ferns Forbs Grasses Legumes Rushes Sedges
Roofs and Covers (CPS 367)	Roof/cover type	Concrete Flexible geomembrane Metal Timber Other (specify)
Silvopasture (CPS 381)	Species category (select most common/extensive type if using more than one)	Coniferous trees Deciduous trees Forage Shrubs
	Species density (number of trees planted per acre)	1-10,000
	Strip width (feet)	1-1,000
Stripcropping (CPS 585)	Crop category (select most common/extensive type if using more than one)	Erosion resistant crops Fallow Sediment trapping crops
	Number of strips	2-100
Tree/Shrub Establishment	Species category (select most common/extensive type if using more than one)	Coniferous trees Deciduous trees Shrubs
(0.5012)	Species density (number of trees planted per acre)	1-10,000
Vegetative Barrier (CPS 601)	Species category (select most common/extensive type if using more than one)	Grasses Grass forb mix Grass legume mix
	Barrier width (feet)	3-1,000

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

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	

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Appendix A: Climate-smart Agriculture and Forestry Practices

All NRCS Practice Standards (not limited to climate-sma	art practices)
309, Agrichemical Handling Facility	390, Riparian Herbaceous Cover
311, Alley Cropping	391, Riparian Forest Buffer
313, Waste Storage Facility	393, Filter Strip
314, Brush Management	394, Firebreak
315, Herbaceous Weed Treatment	395, Stream Habitat Improvement and Management
316. Animal Mortality Facility	396, Aquatic Organism Passage
317. Composting Facility	397. Aquaculture Pond
318. Short Term Storage of Animal Waste and By-Products	398. Fish Raceway or Tank
319. On-Farm Secondary Containment Facility	399, Fishpond Management
320. Irrigation Canal or Lateral	400. Bivalve Aguaculture 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 Cron Rotation	420, Wildine Hubitat Hanting
329 Residue and Tillage Management, No Till	422, Hedgerow Hanning
320. Contour Earning	428, Irrigation Ditch Lining
221 Contour Parhing	4280, Irrigation Water Convoyance, Ditch and Canal Lining
222 Contour Buffer String	AzoA, Imgation water conveyance, Ditch and Canal Lining,
222 Amonding Soil Properties with Cunsum Products	A29P Irrigation Water Conveyance, Ditch and Canal Lining
224. Controlled Troffic Forming	420B, Imgation water conveyance, Ditch and Canal Lining,
334, controlled frame farming	A28C Invigation Water Conversions Ditch and Concl. Lining
228. Deservibed Running	428C, Imgation 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
380, Windbreak/Shelterbelt Establishment and Renovation	516, Livestock Pipeline
381, Silvopasture	520, Pond Sealing or Lining, Compacted Soil Treatment
382, Fence	521, Pond Sealing or Lining, Geomembrane or
383, Fuel Break	Geosynthetic Clay Liner
384, Woody Residue Treatment	521A, Pond Sealing or Lining, Flexible Membrane
386, Field Border	521B, Pond Sealing or Lining, Soil Dispersant
388. Irrigation Field Ditch	521C. Pond Sealing or Lining, Bentonite Sealant
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- 521D, Pond Sealing or Lining, Compacted Clay Treatment
- 522, Pond Sealing or Lining Concrete
- 527, Sinkhole Treatment
- 528, Prescribed Grazing
- 533, Pumping Plant
- 543, Land Reclamation, Abandoned Mined Land
- 544, Land Reclamation, Currently Mined Land
- 548, Grazing Land Mechanical Treatment
- 550, Range Planting
- 554, Drainage Water Management
- 555, Rock Wall Terrace
- 557, Row Arrangement
- 558, Roof Runoff Structure
- 560, Access Road
- 561, Heavy Use Area Protection
- 562, Recreation Area Improvement
- 566, Recreation Land Improvement and Protection
- 570, Stormwater Runoff Control
- 572, Spoil Disposal
- 574, Spring Development
- 575, Trails and Walkways
- 576, Livestock Shelter Structure
- 578, Stream Crossing
- 580, Streambank and Shoreline Protection
- 582, Open Channel
- 584, Channel Bed Stabilization
- 585, Stripcropping
- 587, Structure for Water Control
- 588, Crosswind Ridges
- 589, Cross Wind Trap Strips
- 590, Nutrient Management
- 591, Amendments for Treatment of Agricultural Waste
- 592, Feed Management
- 595, Pest Management Conservation System
- 600, Terrace
- 601, Vegetative Barrier
- 602, Equitable Relief
- 603, Herbaceous Wind Barriers
- 604, Saturated Buffer
- 605, Denitrifying Bioreactor
- 606, Subsurface Drain
- 607, Surface Drain, Field Ditch
- 608, Surface Drain, Main or Lateral
- 609, Surface Roughening
- 610, Salinity and Sodic Soil Management
- 612, Tree/Shrub Establishment
- 614, Watering Facility
- 620, Underground Outlet
- 629, Waste Treatment
- 630, Vertical Drain

- 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

632, Waste Separation Facility

635, Vegetated Treatment Area

636, Water Harvesting Catchment

638, Water and Sediment Control Basin

633, Waste Recycling

634, Waste Transfer

640, Waterspreading

- 753, Infiltration Ditch, interim
- 755, Well Plugging, interim
- 770, Livestock Confinement Facility, interim
- 775, Drainage Ditch Covering, interim
- 782, Phosphorus Removal System, interim
- 800, Controlling Existing Flowing Wells, interim
- 803, Water Well Disinfection, interim
- 805, Amending Soil Properties with Lime, interim
- 808, Soil Carbon Amendment, interim
- 809, Conservation Harvest Management, interim
- 810, Annual Forages for Grazing Systems, interim
- 812, Raised Beds, interim
- 815, Groundwater Recharge Basin or Trench, interim
- 817, On-Farm Recharge, interim
- 818, Water Conservation System, interim
- 821, Low Tunnel Systems, interim
- 823, Organic Management, interim

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

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Appendix B: Commodity List CROPS 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

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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



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

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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:

- 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

Partnerships for Climate-Smart Commodities Additional Specific Terms and Conditions Page 2 of 6 February 2023 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.

Partnerships for Climate-Smart Commodities Additional Specific Terms and Conditions Page **3** of **6** February 2023 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

Partnerships for Climate-Smart Commodities Additional Specific Terms and Conditions Page 4 of 6 February 2023 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.

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Sarah Weutzel-Fisher

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