

# Climate-Smart Agriculture and Forestry (CSAF) Mitigation Activities List <sup>[1]</sup> FY2023



Climate Change Mitigation Practice Categories	Code	Conservation Practice Standard Name=(units)	CSP Enhancement Code	Conservation Stewardship Program (CSP) Bundle and Enhancement Activity	
Soil Health			B000CPL24	Cropland soil health management system*	
			B000CPL25	Climate smart advanced soil health*	
		327	Conservation Cover (acres)	None Available	
		328	Conservation Crop Rotation (acres)	E328A	Resource conserving crop rotation
				E328B	Improved resource conserving crop rotation
				E328E	Soil health crop rotation
				E328F	Modifications to improve soil health and increase soil organic matter
				E328G	Crop rotation on recently converted CRP grass/legume cover for soil organic matter improvement
				E328N	Intercropping to improve soil health
		329	Residue and Tillage Management, No Till (acres)	E329A	No till to reduce soil erosion
				E329B	No till to reduce tillage induced particulate matter
				E329C	No till to increase plant-available moisture
				E329D	No till system to increase soil health and soil organic matter content
				E329E	No till to reduce energy
		332	Contour Buffer Strips (acres)	None Available	
		340	Cover Crop (acres)	E340A	Cover crop to reduce soil erosion
				E340B	Intensive cover cropping to increase soil health and soil organic matter content
				E340C	Use of multi-species cover crops to improve soil health and increase soil organic matter
				E340D	Intensive orchard/vineyard floor cover cropping to increase soil health
				E340F	Cover crop to minimize soil compaction
	E340G			Cover crop to reduce water quality degradation by utilizing excess soil nutrients	
	E340H			Cover crop to suppress excessive weed pressures and break pest cycles	
	345			Residue and Tillage Management, Reduced Till (acres)	E345A
		E345B	Reduced tillage to reduce tillage induced particulate matter		
		E345D	Reduced tillage to increase soil health and soil organic matter content		
	386	Field Border (acres)	E386B	Enhanced field borders to increase carbon storage along the edge(s) of the field	
			E386D	Enhanced field borders to increase food for pollinators along the edge(s) of a field	
			E386E	Enhanced field borders to increase wildlife food and habitat along the edge(s) of a field	
	393	Filter Strips (acres)	E393A	Extend existing filter strip to reduce water quality impacts	
	412	Grassed Waterways (acres)	E412A	Enhance a grassed waterway	
	484	Mulching (acres)	E484A	Mulching to improve soil health	
	603	Herbaceous Wind Barriers (feet)	None Available		
Nitrogen Management	590	Nutrient Management (acres)	E590A	Improving nutrient uptake efficiency and reducing risk of nutrient losses	
			E590B	Reduce risks of nutrient loss to surface water by utilizing precision agriculture technologies	
Livestock Partnership	366	Anaerobic Digester (number)	None Available		
	632	Waste Separation Facility (number)*			
Grazing and Pasture	512	Pasture and Hay Planting (acres)	E512A	Cropland conversion to grass-based agriculture to reduce soil erosion	
			E512C	Cropland conversion to grass for soil organic matter improvement	
			E512D	Forage plantings that help increase organic matter in depleted soils	
	528	Prescribed Grazing (acres)	E528A	Maintaining quantity and quality of forage for animal health and productivity	
			E528D	Grazing management for improving quantity and quality of food or cover and shelter for wildlife	
			E528E	Improved grazing management for enhanced plant structure and composition for wildlife	
			E528H	Prescribed grazing to improve/maintain riparian and watershed function- elevated water temperature	
			E528I	Grazing management that protects sensitive areas -surface or ground water from nutrients	
			E528J	Prescribed grazing on pastureland that improves riparian and watershed function	
			E528L	Prescribed grazing that improves or maintains riparian and watershed function-erosion	
			E528M	Grazing management that protects sensitive areas from gully erosion	
			E528P	Implementing Bale or Swath Grazing to increase organic matter and reduce nutrients in surface water	
			E528R	Management intensive rotational grazing	
	550	Range Planting (acres)	E550B	Range planting for improving forage, browse, or cover for wildlife	

Climate Change Mitigation Practice Categories	Code	Conservation Practice Standard Name*(units)	CSP Enhancement Code	Conservation Stewardship Program (CSP) Bundle and Enhancement Activity
Agroforestry, Forestry and Upland Wildlife Habitat	342	Critical Area Planting (acres)		None Available
	380	Windbreaks/Shelterbelt Establishment and Renovation (feet)		
	390	Riparian Herbaceous Cover (acres)	E390A	Increase riparian herbaceous cover width for sediment and nutrient reduction
			E390B	Increase riparian herbaceous cover width to enhance wildlife habitat
	391	Riparian Forest Buffer (acres)	E391A	Increase riparian forest buffer width for sediment and nutrient reduction
			E391C	Increase riparian forest buffer width to enhance wildlife habitat
	612	Tree/Shrub Establishment (acres)	E612B	Planting for high carbon sequestration rate
			E612G	Tree/shrub planting for wildlife food
	645	Upland Wildlife Habitat Management (acres)		None Available
	666	Forest Stand Improvement (acres)*	E666A	Maintaining and improving forest soil quality*
E666D			Forest management to enhance understorey vegetation*	
E666E			Reduce height of the forest understorey to limit wildfire risk*	
E666H			Increase on-site carbon storage*	
E666L			Forest Stand Improvement to rehabilitate degraded hardwood stands*	
Energy, Combustion, and Electricity Efficiency	374	Energy Efficient Agricultural Operation (number)*		None Available
			E533C	Install VFDs on pumps[4] *
			E533D	Complete pumping plant evaluation for energy savings[4] *
	672	Energy Efficient Building Envelope (number)*		None Available
	670	Energy Efficient Lighting System (number)*		
Wetlands	657	Wetland Restoration (acres)*		None Available

**NOTES:**

In addition to the designated CSAF conservation activities listed, conservation practices which facilitate the management or the function of a CSAF activity but does not achieve the desired effects on its own (and may not have a quantifiable benefit), may be planned as applicable. Examples: Tree-Shrub Establishment (612) may need facilitating practices such as site prep (490) or access control (472). Conservation Crop Rotation (328) may need facilitating practices such as cover crops (340). Waste Separation Facility (632) may need facilitating practices such as waste transfer (634). Prescribed grazing (528) may need facilitating practices such as watering facility (614), stream crossing (578) or fence (382). Activities highlighted have been added to the list in FY23.

\*Noted activities are added to the list as "provisional." These practices, associated enhancements, and bundles are being added under the premise that they may provide benefits, and a quantification methodology will be evaluated during the fiscal year.

Practices may be removed from the mitigation practice list in a subsequent fiscal year if quantification is not possible.

[1] Unless otherwise noted, listed practices have quantifiable carbon sequestration and/or GHG reduction methodologies described in COMET-Planner ([www.comet-planner.com](http://www.comet-planner.com)). New practices will be added as science progresses and scientifically defensible quantification methodologies are identified to accompany existing and new NRCS conservation practice standards.

[2] The included Conservation Practice Standard links provide national information. Please consult the NRCS office at your local USDA Service Center for any local and state level criteria. Visit [farmers.gov/service-locator](http://farmers.gov/service-locator) to find contact information for your local office.

