

Natural Resources Conservation Service

# Climate-Smart Agriculture and Forestry (CSAF) Mitigation Activities List [1]



Climate Change Mitigation Practice Categories	Code	Conservation Practice Standard Name	CSP Enhancement Code	CSP Enhancement Activity
Soil Health	327	Conservation Cover (Acres)	E327A	Conservation cover for pollinators and beneficial insects
			E327B	Establish Monarch butterfly habitat
	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
			E328O	Perennial grain crop conservation rotation
	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	Reduced tillage to reduce soil erosion
			E345B	Reduced tillage to reduce tillage induced particulate matter
			E345C	Reduced tillage to increase plant-available moisture
			E345D	Reduced tillage to increase soil health and soil organic matter content
			E345E	Reduced tillage to reduce energy use
	386	Field Border (Acres)	E386A	Enhanced field borders to reduce soil erosion along the edge(s) of a field
			E386B	Enhanced field borders to increase carbon storage along the edge(s) of the field
			E386C	Enhanced field borders to decrease particulate emissions 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	
		E484B	Reduce particulate matter emissions by using orchard or vineyard generated woody materials as mulch	
		E484C	Reduce particulate matter emissions by using orchard or vineyard generated woody materials as mulch	
585	Stripcropping (Acres)	None Available		
601	Vegetative Barriers (Feet)			
603	Herbaceous Wind Barriers (Feet)			



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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
			E590C	Improving nutrient uptake efficiency and reducing risk of nutrient losses on pasture
			E590D	Reduce risks of nutrient losses to surface and groundwater by increasing setback awareness via precision technology
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
			E512B	Forage plantings that help increase organic matter in depleted soils
			E512C	Cropland conversion to grass for soil organic matter improvement
			E512D	Forage plantings that help increase organic matter in depleted soils
			E512E	Forage and biomass planting that produces feedstock for biofuels or energy production.
			E512I	Establish pollinator and/or beneficial insect and/or monarch habitat
			E512J	Establish wildlife corridors to provide habitat continuity or access to water
			E512K	Establishing native species into forage base to improve diversity for both livestock and wildlife
			E512L	Diversifying forage base with interseeding forbs and legumes to increase pasture quality
			E512M	Forage plantings that improve wildlife habitat cover and shelter or structure and composition
	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
			E528F	Stockpiling cool season forage to improve structure and composition or plant productivity and health
			E528G	Improved grazing management on pasture for plant productivity and health with monitoring activities
			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
			E528O	Clipping mature forages to set back vegetative growth for improved forage quality
			E528P	Implementing Bale or Swath Grazing to increase organic matter and reduce nutrients in surface water
			E528R	Management intensive rotational grazing
			E528S	Soil Health Improvements on Pasture
	E528T	Grazing to Reduce Wildfire Risks on Forests		
	550	Range Planting (Acres)	E550A	Range planting for increasing/maintaining organic matter
			E550B	Range planting for improving forage, browse, or cover for wildlife

Climate Change Mitigation Practice Categories	Code	Conservation Practice Standard Name	CSP Enhancement Code	CSP Enhancement Activity
Agroforestry, Forestry and Upland Wildlife Habitat	311	Alley Cropping (Acres)	None Available	None Available
	379	Multi-Story Cropping (Acres)		
	380	Windbreaks/Shelterbelt Establishment and Renovation (Feet) <sup>[2]</sup>		
	381	Silvopasture (Acres)		
	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
			E391A	Increase riparian forest buffer width for sediment and nutrient reduction
	391	Riparian Forest Buffer (Acres)	E391B	Increase stream shading for stream temperature reduction
			E391C	Increase riparian forest buffer width to enhance wildlife habitat
			None Available	
	422	Hedgerow Planting (Feet)	None Available	
	612	Tree/Shrub Establishment (Acres)	E612A	Cropland conversion to trees or shrubs for long term improvement of water quality
			E612B	Planting for high carbon sequestration rate
			E612C	Establishing tree/shrub species to restore native plant communities
E612G			Tree/shrub planting for wildlife food	
645	Upland Wildlife Habitat Management (Acres)	E645B	Manage existing shrub thickets to provide adequate shelter for wildlife	
		E645C	Edge feathering for wildlife cover	
650	Windbreak/Shelterbelt Renovation (Feet) <sup>[3]</sup>	None Available		
Restoration of Disturbed Lands	453	Land Reclamation, Landslide Treatment (Acres)	None Available	
	543	Land Reclamation, Abandoned Mined Land (Acres)		
	544	Land Reclamation, Currently Mined Land (Acres)		
Rice	449	Irrigation Water Management (Acres) <sup>[4]</sup>	E449B	Alternated Wetting and Drying (AWD) of rice fields

## NOTES:

- [1] All 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.
- [3] NHCP Notice 172 (July 28, 2021) combined CPS 380 and CPS 650. CPS 380 reflects the new name effective October 1, 2021. CPS 650 remains available in IT applications as States make the transition.
- [4] NHCP Notice 172 will require states to transition fully to CPS 380 by July 28, 2022.
- [5] Conservation Practice Standard 449 is not a mitigation practice standard under EQIP, the only atmospheric-beneficial application of this Conservation Practice is E449B under CStP.



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