

Attachment A - Climate Smart Agriculture and Forestry (CSAF) Mitigation Practice List ^[1]
 Fiscal Year 2022 – Natural Resources Conservation Service

<u>Climate Change Mitigation Practice Categories</u>	<u>Practice Code</u>	<u>Conservation Practice Standard Name</u>	<u>Enhancement Code</u>	<u>Enhancement Activity</u>
Soil Health	327	Conservation Cover (Acres)	E327A E327B	Conservation cover for pollinators and beneficial insects Establish Monarch butterfly habitat
	328	Conservation Crop Rotation (Acres)	E328A E328B E328E E328F E328G E328N E328O	Resource conserving crop rotation Improved resource conserving crop rotation Soil health crop rotation Modifications to improve soil health and increase soil organic matter Crop rotation on recently converted CRP grass/legume cover for soil organic matter improvement Intercropping to improve soil health Perennial grain crop conservation rotation
	329	Residue and Tillage Management, No Till (Acres)	E329A E329B E329C E329D E329E	No till to reduce soil erosion No till to reduce tillage induced particulate matter No till to increase plant-available moisture No till system to increase soil health and soil organic matter content No till to reduce energy
	332	Contour Buffer Strips (Acres)		None Available
	340	Cover Crop (Acres)	E340A E340B E340C E340D E340F E340G E340H E340I	Cover crop to reduce soil erosion Intensive cover cropping to increase soil health and soil organic matter content Use of multi-species cover crops to improve soil health and increase soil organic matter Intensive orchard/vineyard floor cover cropping to increase soil health Cover crop to minimize soil compaction Cover crop to reduce water quality degradation by utilizing excess soil nutrients Cover crop to suppress excessive weed pressures and break pest cycles Using cover crops for biological strip till

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Soil Health	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		
		None Available			
585	Stripcropping (Acres)				
601	Vegetative Barriers (Feet)				
		603	Herbaceous Wind Barriers (Feet)		
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	

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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	
Grazing and Pasture	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

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Grazing and Pasture	528	Prescribed Grazing (Acres)	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
Agroforestry, Forestry and Upland Wildlife Habitat	311	Alley Cropping (Acres)	None Available	
	379	Multi-Story Cropping (Acres)		
	380	Windbreaks/Shelterbelt Establishment and Renovation (Feet) ^[2]		
	381	Silvopasture (Acres)	E381A	Silvopasture to improve wildlife habitat
	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
			E391B	Increase stream shading for stream temperature reduction
			E391C	Increase riparian forest buffer width to enhance wildlife habitat
	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) ^[3]	None Available		

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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) ^[4]	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 (<http://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] 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.
- [3] NHCP Notice 172 will require states to transition fully to CPS 380 by July 28, 2022.
- [4] Conservation Practice Standard 449 is not a mitigation practice standard under EQIP, the only atmospheric-beneficial application of this Conservation Practice is E449B under CSP.