

Attachment A - Climate Smart Agriculture and Forestry (CSAF) Mitigation Practice List <sup>[1]</sup>  
 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)                      | <a href="#">E327A</a><br><a href="#">E327B</a>   | Conservation cover for pollinators and beneficial insects<br>Establish Monarch butterfly habitat  |
|  | 328                  | Conservation Crop Rotation (Acres)              | <a href="#">E328A</a><br><a href="#">E328B</a><br><a href="#">E328E</a><br><a href="#">E328F</a><br><a href="#">E328G</a><br><a href="#">E328N</a><br><a href="#">E328O</a>                          | Resource conserving crop rotation<br>Improved resource conserving crop rotation<br>Soil health crop rotation<br>Modifications to improve soil health and increase soil organic matter<br>Crop rotation on recently converted CRP grass/legume cover for soil organic matter improvement<br>Intercropping to improve soil health<br>Perennial grain crop conservation rotation   |
|  | 329                  | Residue and Tillage Management, No Till (Acres) | <a href="#">E329A</a><br><a href="#">E329B</a><br><a href="#">E329C</a><br><a href="#">E329D</a><br><a href="#">E329E</a>  | No till to reduce soil erosion<br>No till to reduce tillage induced particulate matter<br>No till to increase plant-available moisture<br>No till system to increase soil health and soil organic matter content<br>No till to reduce energy  |
|  | 332                  | Contour Buffer Strips (Acres)                   |  | None Available  |
|  | 340                  | Cover Crop (Acres)                              | <a href="#">E340A</a><br><a href="#">E340B</a><br><a href="#">E340C</a><br><a href="#">E340D</a><br><a href="#">E340F</a><br><a href="#">E340G</a><br><a href="#">E340H</a><br><a href="#">E340I</a> | Cover crop to reduce soil erosion<br>Intensive cover cropping to increase soil health and soil organic matter content<br>Use of multi-species cover crops to improve soil health and increase soil organic matter<br>Intensive orchard/vineyard floor cover cropping to increase soil health<br>Cover crop to minimize soil compaction<br>Cover crop to reduce water quality degradation by utilizing excess soil nutrients<br>Cover crop to suppress excessive weed pressures and break pest cycles<br>Using cover crops for biological strip till |

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|--|----------------------------|--|---|---|
| <b>Soil Health</b>                                   | 345                        | Residue and Tillage Management, Reduced Till (Acres) | <a href="#">E345A</a>   | Reduced tillage to reduce soil erosion  |
|  |                            |  | <a href="#">E345B</a>   | Reduced tillage to reduce tillage induced particulate matter  |
|  |                            |  | <a href="#">E345C</a>   | Reduced tillage to increase plant-available moisture  |
|  |                            |  | <a href="#">E345D</a>   | Reduced tillage to increase soil health and soil organic matter content   |
|  |                            |  | <a href="#">E345E</a>   | Reduced tillage to reduce energy use  |
|  | 386                        | Field Border (Acres)                                 | <a href="#">E386A</a>   | Enhanced field borders to reduce soil erosion along the edge(s) of a field  |
|  |                            |  | <a href="#">E386B</a>   | Enhanced field borders to increase carbon storage along the edge(s) of the field                                    |
|  |                            |  | <a href="#">E386C</a>   | Enhanced field borders to decrease particulate emissions along the edge(s) of the field                             |
|  |                            |  | <a href="#">E386D</a>   | Enhanced field borders to increase food for pollinators along the edge(s) of a field                                |
|  |                            |  | <a href="#">E386E</a>   | Enhanced field borders to increase wildlife food and habitat along the edge(s) of a field                           |
| 393  | Filter Strips (Acres)      | <a href="#">E393A</a>                                | Extend existing filter strip to reduce water quality impacts  |   |
| 412  | Grassed Waterways (Acres)  | <a href="#">E412A</a>                                | Enhance a grassed waterway  |   |
| 484  | Mulching (Acres)           | <a href="#">E484A</a>                                | Mulching to improve soil health   |   |
|  |                            | <a href="#">E484B</a>                                | Reduce particulate matter emissions by using orchard or vineyard generated woody materials as mulch |   |
|  |                            | <a href="#">E484C</a>                                | 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)   |   |
| <b>Nitrogen Management</b>                           | 590                        | Nutrient Management (Acres)                          | <a href="#">E590A</a>   | Improving nutrient uptake efficiency and reducing risk of nutrient losses   |
|  |                            |  | <a href="#">E590B</a>   | Reduce risks of nutrient loss to surface water by utilizing precision agriculture technologies                      |
|  |                            |  | <a href="#">E590C</a>   | Improving nutrient uptake efficiency and reducing risk of nutrient losses on pasture                                |
|  |                            |  | <a href="#">E590D</a>   | 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)           | <a href="#">E512A</a>   | Cropland conversion to grass-based agriculture to reduce soil erosion                                |
|  |                      |  | <a href="#">E512B</a>   | Forage plantings that help increase organic matter in depleted soils                                 |
|  |                      |  | <a href="#">E512C</a>   | Cropland conversion to grass for soil organic matter improvement                                     |
|  |                      |  | <a href="#">E512D</a>   | Forage plantings that help increase organic matter in depleted soils                                 |
|  |                      |  | <a href="#">E512E</a>   | Forage and biomass planting that produces feedstock for biofuels or energy production.               |
|  |                      |  | <a href="#">E512I</a>   | Establish pollinator and/or beneficial insect and/or monarch habitat                                 |
|  |                      |  | <a href="#">E512J</a>   | Establish wildlife corridors to provide habitat continuity or access to water                        |
|  |                      |  | <a href="#">E512K</a>   | Establishing native species into forage base to improve diversity for both livestock and wildlife    |
|  |                      |  | <a href="#">E512L</a>   | Diversifying forage base with interseeding forbs and legumes to increase pasture quality             |
|  |                      |  | <a href="#">E512M</a>   | Forage plantings that improve wildlife habitat cover and shelter or structure and composition        |
|  | 528                  | Prescribed Grazing (Acres)                 | <a href="#">E528A</a>   | Maintaining quantity and quality of forage for animal health and productivity                        |
|  |                      |  | <a href="#">E528D</a>   | Grazing management for improving quantity and quality of food or cover and shelter for wildlife      |
|  |                      |  | <a href="#">E528E</a>   | Improved grazing management for enhanced plant structure and composition for wildlife                |
|  |                      |  | <a href="#">E528F</a>   | Stockpiling cool season forage to improve structure and composition or plant productivity and health |
|  |                      |  | <a href="#">E528G</a>   | Improved grazing management on pasture for plant productivity and health with monitoring activities  |
|  |                      |  | <a href="#">E528H</a>   | Prescribed grazing to improve/maintain riparian and watershed function-elevated water temperature    |
|  |                      |  | <a href="#">E528I</a>   | Grazing management that protects sensitive areas -surface or ground water from nutrients             |
|  |                      |  | <a href="#">E528J</a>   | Prescribed grazing on pastureland that improves riparian and watershed function                      |
|  |                      |  | <a href="#">E528L</a>   | Prescribed grazing that improves or maintains riparian and watershed function-erosion                |
|  |                      |  | <a href="#">E528M</a>   | Grazing management that protects sensitive areas from gully erosion                                  |

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|--|--|---|---|---|
| Grazing and Pasture                                  | 528  | Prescribed Grazing (Acres)  | <a href="#">E528O</a>   | Clipping mature forages to set back vegetative growth for improved forage quality                   |
|  |  |   | <a href="#">E528P</a>   | Implementing Bale or Swath Grazing to increase organic matter and reduce nutrients in surface water |
|  |  |   | <a href="#">E528R</a>   | Management intensive rotational grazing   |
|  |  |   | <a href="#">E528S</a>   | Soil Health Improvements on Pasture   |
|  |  |   | <a href="#">E528T</a>   | Grazing to Reduce Wildfire Risks on Forests   |
|  | 550  | Range Planting (Acres)  | <a href="#">E550A</a>   | Range planting for increasing/maintaining organic matter  |
|  |  |   | <a href="#">E550B</a>   | 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) <sup>[2]</sup> |   |   |
|  | 381  | Silvopasture (Acres)  | <a href="#">E381A</a>   | Silvopasture to improve wildlife habitat  |
|  | 390  | Riparian Herbaceous Cover (Acres)   | <a href="#">E390A</a>   | Increase riparian herbaceous cover width for sediment and nutrient reduction                        |
|  |  |   | <a href="#">E390B</a>   | Increase riparian herbaceous cover width to enhance wildlife habitat                                |
|  | 391  | Riparian Forest Buffer (Acres)  | <a href="#">E391A</a>   | Increase riparian forest buffer width for sediment and nutrient reduction                           |
|  |  |   | <a href="#">E391B</a>   | Increase stream shading for stream temperature reduction  |
|  |  |   | <a href="#">E391C</a>   | Increase riparian forest buffer width to enhance wildlife habitat                                   |
|  | 422  | Hedgerow Planting (Feet)  | None Available  |   |
| 612  | Tree/Shrub Establishment (Acres)                       | <a href="#">E612A</a>   | Cropland conversion to trees or shrubs for long term improvement of water quality |   |
|  |  | <a href="#">E612B</a>   | Planting for high carbon sequestration rate                                       |   |
|  |  | <a href="#">E612C</a>   | Establishing tree/shrub species to restore native plant communities               |   |
|  |  | <a href="#">E612G</a>   | Tree/shrub planting for wildlife food   |   |
| 645  | Upland Wildlife Habitat Management (Acres)             | <a href="#">E645B</a>   | Manage existing shrub thickets to provide adequate shelter for wildlife           |   |
|  |  | <a href="#">E645C</a>   | Edge feathering for wildlife cover  |   |
| 650  | Windbreak/Shelterbelt Renovation (Feet) <sup>[3]</sup> | 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) <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 (<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.