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## Ranking Tool Summary

### for FY2017 - Providing financial and technical assistance servi (Released 12/21/2016 )

#### Description:

FY 2015 RCPP - Tennessee Department of Agriculture (TDA) - Providing Financial and Technical Assistance Service: The purpose of this Regional Conservation Partnership Project (RCPP) is to provide financial and technical assistance services to address soil and water resource concerns in 303(d) listed watersheds in Tennessee. Only projects in 303(d) watersheds in Tennessee listed as being impaired for nutrients and that are not currently in the National Water Quality Initiative (NWQI) or Mississippi River Basin Initiative (MRBI) are eligible. RCPP is a voluntary conservation program that establishes specific parameters for working with eligible partner entities to provide financial and technical assistance to producers and landowners of eligible land. Under this RCPP agreement the Natural Resources Conservation Service (NRCS) and TDA will join in efforts with producers to increase the restoration and sustainable use of soil, water, wildlife and related natural resources on regional or watershed scales. Eligible participants are producers and landowners of agricultural land and non-industrial private forestland who may enter into conservation program contracts in the project area, under the framework of a partnership agreement, to install and maintain conservation activities to address priority natural resource concerns. High Priority will be given to applications in the Loosahatchie Watershed (08010209 HUC 8) in Fayette, Hardeman, Shelby, & Tipton County. Medium Priority will be given to projects in 303(d) watersheds not in NWQI or MRBI in Crocket, Dyer, Fayette, Hardeman, Henderson, Lauderdale, Madison, and Tipton County.

#### Land Uses:

Associated Agriculture Land, Crop, Designated Protected Area, Farmstead, Forest, Pasture

#### Efficiency Score:

Scoring Multiplier: 10.000

#### Optional Notes:

#### National Priorities:

Scoring Multiplier: 1.000

Questions:

Number	Question	Points
1	a. Is the program application to support the development of a Conservation Activity Plan (CAP)? If answer is "Yes", do not answer any other national level questions. If answer is "No", proceed with evaluation to address the remaining questions in this section.	250
2	a. Implementing the practices in a Comprehensive Nutrient Management Plan (CNMP)?	15
2	b. Implementing the practices in a Nutrient Management Plan (NMP)?	10
2	c. Reducing impacts from sediment, nutrients, salinity, or pesticides on land adjoining a designated "impaired water body" (TMDL, 303d listed waterbody, or other State designation)?	10
2	d. Reducing the impacts from sediment, nutrients, salinity, or pesticides in a "non-impaired water body"?	10
2	e. Implementing practices that improve water quality through animal mortality and carcass management?	10
3	a. Implementing irrigation practices that reduce aquifer overdraft.	15
3	b. Implementing irrigation practices that reduce on-farm water use?	10
3	c. Implementing practices in an area where the applicant participates in a geographically established or watershed-wide project?	10
3	d. Implementing practices that reduce on-farm water use as a result of changing to	10

	crops with lower water consumptive use, the rotation of crops, or the modification of cultural operations?	
4	a. Meeting on-farm regulatory requirements relating to air quality or proactively avoid the need for regulatory measures?	10
4	b. Implementing practices that reduce on-farm emissions of particulate matter (PM2.5, PM10)?	10
4	c. Implementing practices that reduce on-farm generated greenhouse gases such as carbon dioxide (CO2), methane (CH4), and nitrous oxide (N2O)?	10
4	d. Implementing practices that increase on-farm carbon sequestration?	10
5	a. Reduce erosion to tolerable limits (Soil "T")?	10
5	b. Increasing organic matter and carbon content, and improving soil tilth and structure?	10
6	a. Implementing practices benefitting threatened and endangered, at-risk, candidate, or species of concern.	10
6	b. Implementing practices that retain wildlife and plant habitat on land exiting the Conservation Reserve Program (CRP) or other set-aside program?	10
6	c. Implementing practices benefitting honey bee populations or other pollinators?	10
6	d. Implementing land-based practices that improve habitat for aquatic wildlife?	10
7	a. Implementing practices that result in the management control of noxious or invasive plant species on non-cropland?	10
7	b. Implementing practice in an Integrated Pest Management Plan (IPM)?	10
8	a. Reducing on-farm energy consumption?	10
8	b. Implementing practice(s) identified in an approved AgEMP or energy audit, which meet ASABE S612 criteria?	10
9	a. Enhancement of existing conservation practice(s) or conservation systems already in place at the time the application is received?	10
	Total Points	500

**State Issues:**

Scoring Multiplier: 1.000

Questions:

Sub-heading Number	Question Number	Question	Points
1		1. If the application is for the development of a Conservation Activity Plan (CAP), the agency will assign significant ranking priority and conservation benefit by answering "Yes" to the following question. Answering "Yes" to question 1a will result in the application being awarded the maximum amount of points that can be earned for the state level questions.	
	1	a. Is the program application for development of a Conservation Activity Plan (CAP) for a TSP prepared Comprehensive Nutrient Management Plan (102) or Nutrient Management Plan (104)? If answer is "Yes", do not answer any other state level questions. If answer is "No", proceed with evaluation to address the remaining questions in this section.	250
2		2. If the application is NOT for the development of a Conservation Activity Plan (CAP), answer the following questions:	
	2	a. Does the applicant agree to plant cropland to permanent vegetation or plant the entire field for three (3) consecutive years to Cover Crop (340) with 5 species soil health mix?	110
	2	b. Does this application include any of the following buffer practices: Field Border (386); Filter Strip (393); Nutrient Management (590); Riparian Forest Buffer (391); or Riparian Herbaceous Cover (390)?	75
	2	c. Does the majority (50% or greater) of the land being offered have a direct conveyance system to a perennial stream?	65

	2	d. Has the applicant ever had an EQIP contract cancelled and/or terminated in the last five (5) years OR has applicant ever destroyed or failed to maintain a practice for its designated life span (NRCS technical errors excluded as determined by the Area Conservationist)?	-50
	2	e. Has the applicant ever had an EQIP contract terminated in the last five (5) years?	-50
Maximum Points:			Total Points
			400

**Local Issues:**

Scoring Multiplier: 1.000

Questions:

Sub-heading Number	Question Number	Question	Points
1		1. If the application is for the development of a Conservation Activity Plan (CAP), the agency will assign significant ranking priority and conservation benefit by answering "Yes" to the following question. Answering "Yes" to question 1a will result in the application being awarded the maximum amount of points that can be earned for the state level questions.	
	1	a. Is the program application for development of a Conservation Activity Plan (CAP) for a TSP prepared Comprehensive Nutrient Management Plan (102) or Nutrient Management Plan (104)? If answer is "Yes", do not answer any other local level questions. If answer is "No", proceed with evaluation to address the remaining questions in this section.	400
2		2. If the application is NOT for the development of a Conservation Activity Plan (CAP), answer the following questions:	
	2	a. Does this application include at least 1 year of cover crops?	145
	2	b. Is this application for converting cropland to grass or trees?	85
	2	c. Does this application include practices addressing the gully erosion resource concern?	60
	2	d. Does this application contain a practice that excludes livestock from streams or other water conveyance systems?	60
	2	e. Will conservation practices be applied to bottomland fields or upland fields adjacent to an open channel or stream?	50
Maximum Points:			Total Points
			800

**Selected Resource Concerns and Practices:**

Air Quality Impacts: Emissions of Greenhouse Gases (GHGs)

- Access Control (472)
- Animal Mortality Facility (316)
- Composting Facility (317)
- Comprehensive Nutrient Management Plan - (102)
- Conservation Cover (327)
- Conservation Crop Rotation (328)
- Contour Buffer Strips (332)
- Cover Crop (340)
- Critical Area Planting (342)
- Fence (382)
- Field Border (386)
- Filter Strip (393)
- Forage and Biomass Planting (512)
- Grassed Waterway (412)
- Herbaceous Weed Control (315)
- Nutrient Management (590)

Prescribed Grazing (528)  
Pumping Plant (533)  
Residue and Tillage Mgmt-No-Till (329)  
Restoration and Management of Declining (643)  
Riparian Forest Buffer (391)  
Riparian Herbaceous Cover (390)  
Roofs and Covers (367)  
Silvopasture Establishment (381)  
Tree/Shrub Establishment (612)  
Upland Wildlife Habitat Management (645)  
Vegetative Treatment Area (635)  
Waste Facility Closure (360)  
Waste Separation Facility (632)  
Waste Treatment (629)  
Wetland Creation (658)  
Wetland Enhancement (659)  
Wetland Restoration (657)

Air Quality Impacts: Emissions of Ozone Precursors  
Access Control (472)  
Composting Facility (317)  
Comprehensive Nutrient Management Plan - (102)  
Conservation Cover (327)  
Nutrient Management (590)  
Pumping Plant (533)  
Residue and Tillage Mgmt-No-Till (329)  
Roofs and Covers (367)  
Waste Facility Closure (360)  
Waste Separation Facility (632)  
Waste Treatment (629)

Air Quality Impacts: Emissions of Particulate Matter (PM) and PM Precursors  
Access Control (472)  
Composting Facility (317)  
Conservation Cover (327)  
Conservation Crop Rotation (328)  
Contour Buffer Strips (332)  
Cover Crop (340)  
Critical Area Planting (342)  
Field Border (386)  
Filter Strip (393)  
Forage and Biomass Planting (512)  
Heavy Use Area Protection (561)  
Mulching (484)  
Nutrient Management (590)  
Prescribed Grazing (528)  
Pumping Plant (533)  
Residue and Tillage Mgmt-No-Till (329)  
Riparian Forest Buffer (391)  
Riparian Herbaceous Cover (390)  
Roofs and Covers (367)  
Silvopasture Establishment (381)  
Stripcropping (585)  
Tree/Shrub Establishment (612)  
Upland Wildlife Habitat Management (645)  
Waste Facility Closure (360)  
Waste Separation Facility (632)  
Waste Treatment (629)

Air Quality Impacts: Objectionable Odors  
Animal Mortality Facility (316)  
Composting Facility (317)  
Comprehensive Nutrient Management Plan - (102)  
Nutrient Management (590)

- Prescribed Grazing (528)
- Roofs and Covers (367)
- Silvopasture Establishment (381)
- Tree/Shrub Establishment (612)
- Vegetative Treatment Area (635)
- Waste Facility Closure (360)
- Waste Separation Facility (632)
- Waste Treatment (629)

Degraded Plant Condition: Excessive Plant Pest Pressure

- Access Control (472)
- Composting Facility (317)
- Conservation Cover (327)
- Conservation Crop Rotation (328)
- Contour Buffer Strips (332)
- Cover Crop (340)
- Critical Area Planting (342)
- Field Border (386)
- Filter Strip (393)
- Grassed Waterway (412)
- Heavy Use Area Protection (561)
- Herbaceous Weed Control (315)
- Mulching (484)
- Prescribed Grazing (528)
- Restoration and Management of Declining (643)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Tree/Shrub Establishment (612)
- Tree/Shrub Site Preparation (490)
- Upland Wildlife Habitat Management (645)
- Vegetative Treatment Area (635)
- Wetland Creation (658)
- Wetland Enhancement (659)
- Wetland Restoration (657)

Degraded Plant Condition: Inadequate Structure and Composition

- Access Control (472)
- Conservation Cover (327)
- Conservation Crop Rotation (328)
- Contour Buffer Strips (332)
- Cover Crop (340)
- Critical Area Planting (342)
- Field Border (386)
- Filter Strip (393)
- Forage and Biomass Planting (512)
- Grassed Waterway (412)
- Herbaceous Weed Control (315)
- Nutrient Management (590)
- Prescribed Grazing (528)
- Restoration and Management of Declining (643)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Tree/Shrub Establishment (612)
- Tree/Shrub Site Preparation (490)
- Upland Wildlife Habitat Management (645)
- Vegetative Treatment Area (635)
- Wetland Creation (658)
- Wetland Enhancement (659)
- Wetland Restoration (657)

Degraded Plant Condition: Undesirable Plant Productivity and Health

- Access Control (472)
- Conservation Cover (327)
- Conservation Crop Rotation (328)

Contour Buffer Strips (332)  
 Cover Crop (340)  
 Critical Area Planting (342)  
 Diversion (362)  
 Fence (382)  
 Field Border (386)  
 Filter Strip (393)  
 Forage and Biomass Planting (512)  
 Grassed Waterway (412)  
 Heavy Use Area Protection (561)  
 Herbaceous Weed Control (315)  
 Livestock Pipeline (516)  
 Mulching (484)  
 Nutrient Management (590)  
 Pond (378)  
 Prescribed Grazing (528)  
 Pumping Plant (533)  
 Residue and Tillage Mgmt-No-Till (329)  
 Restoration and Management of Declining (643)  
 Riparian Forest Buffer (391)  
 Riparian Herbaceous Cover (390)  
 Silvopasture Establishment (381)  
 Stripcropping (585)  
 Subsurface Drain (606)  
 Terrace (600)  
 Tree/Shrub Establishment (612)  
 Tree/Shrub Site Preparation (490)  
 Underground Outlet (620)  
 Upland Wildlife Habitat Management (645)  
 Vegetative Treatment Area (635)  
 Waste Storage Facility (313)  
 Waste Treatment (629)  
 Water Well (642)  
 Watering Facility (614)  
 Wetland Creation (658)  
 Wetland Enhancement (659)  
 Wetland Restoration (657)  
 Degraded Plant Condition: Wildfire Hazard, Excessive Biomass Accumulation  
   Access Control (472)  
   Herbaceous Weed Control (315)  
   Prescribed Grazing (528)  
   Silvopasture Establishment (381)  
   Tree/Shrub Site Preparation (490)  
 Excess Water: Runoff, Flooding, or Ponding  
   Conservation Cover (327)  
   Conservation Crop Rotation (328)  
   Contour Buffer Strips (332)  
   Cover Crop (340)  
   Dike (356)  
   Diversion (362)  
   Field Border (386)  
   Forage and Biomass Planting (512)  
   Grassed Waterway (412)  
   Mulching (484)  
   Pond (378)  
   Prescribed Grazing (528)  
   Pumping Plant (533)  
   Residue and Tillage Mgmt-No-Till (329)  
   Sediment Basin (350)  
   Silvopasture Establishment (381)  
   Stripcropping (585)

- Structure for Water Control (587)
- Subsurface Drain (606)
- Terrace (600)
- Underground Outlet (620)
- Water and Sediment Control Basin (638)
- Wetland Creation (658)
- Wetland Enhancement (659)
- Wetland Restoration (657)
- Excess Water: Seasonal High Water Table
  - Access Control (472)
  - Conservation Cover (327)
  - Conservation Crop Rotation (328)
  - Cover Crop (340)
  - Diversion (362)
  - Grassed Waterway (412)
  - Pumping Plant (533)
  - Riparian Forest Buffer (391)
  - Riparian Herbaceous Cover (390)
  - Roof Runoff Structure (558)
  - Silvopasture Establishment (381)
  - Subsurface Drain (606)
  - Tree/Shrub Establishment (612)
  - Upland Wildlife Habitat Management (645)
  - Water Well (642)
- Excess Water: Seeps
  - Access Control (472)
  - Conservation Cover (327)
  - Conservation Crop Rotation (328)
  - Cover Crop (340)
  - Pumping Plant (533)
  - Riparian Forest Buffer (391)
  - Riparian Herbaceous Cover (390)
  - Roof Runoff Structure (558)
  - Silvopasture Establishment (381)
  - Subsurface Drain (606)
  - Tree/Shrub Establishment (612)
- Fish and Wildlife - Inadequate Habitat: Inadequate Habitat - Cover/Shelter
  - Access Control (472)
  - Conservation Cover (327)
  - Conservation Crop Rotation (328)
  - Contour Buffer Strips (332)
  - Cover Crop (340)
  - Critical Area Planting (342)
  - Field Border (386)
  - Filter Strip (393)
  - Forage and Biomass Planting (512)
  - Grade Stabilization Structure (410)
  - Grassed Waterway (412)
  - Herbaceous Weed Control (315)
  - Mulching (484)
  - Nutrient Management (590)
  - Pond (378)
  - Prescribed Grazing (528)
  - Residue and Tillage Mgmt-No-Till (329)
  - Restoration and Management of Declining (643)
  - Riparian Forest Buffer (391)
  - Riparian Herbaceous Cover (390)
  - Silvopasture Establishment (381)
  - Stripcropping (585)
  - Terrace (600)
  - Tree/Shrub Establishment (612)

- Upland Wildlife Habitat Management (645)
- Wetland Creation (658)
- Wetland Enhancement (659)
- Wetland Restoration (657)
- Fish and Wildlife - Inadequate Habitat: Inadequate Habitat - Food
  - Access Control (472)
  - Conservation Cover (327)
  - Conservation Crop Rotation (328)
  - Contour Buffer Strips (332)
  - Cover Crop (340)
  - Critical Area Planting (342)
  - Field Border (386)
  - Filter Strip (393)
  - Forage and Biomass Planting (512)
  - Grade Stabilization Structure (410)
  - Grassed Waterway (412)
  - Herbaceous Weed Control (315)
  - Mulching (484)
  - Nutrient Management (590)
  - Pond (378)
  - Prescribed Grazing (528)
  - Residue and Tillage Mgmt-No-Till (329)
  - Restoration and Management of Declining (643)
  - Riparian Forest Buffer (391)
  - Riparian Herbaceous Cover (390)
  - Silvopasture Establishment (381)
  - Stripcropping (585)
  - Tree/Shrub Establishment (612)
  - Upland Wildlife Habitat Management (645)
  - Wetland Creation (658)
  - Wetland Enhancement (659)
  - Wetland Restoration (657)
- Fish and Wildlife - Inadequate Habitat: Inadequate Habitat - Habitat Continuity (Space)
  - Access Control (472)
  - Conservation Cover (327)
  - Conservation Crop Rotation (328)
  - Contour Buffer Strips (332)
  - Cover Crop (340)
  - Critical Area Planting (342)
  - Dike (356)
  - Field Border (386)
  - Filter Strip (393)
  - Grassed Waterway (412)
  - Herbaceous Weed Control (315)
  - Pond (378)
  - Prescribed Grazing (528)
  - Residue and Tillage Mgmt-No-Till (329)
  - Restoration and Management of Declining (643)
  - Riparian Forest Buffer (391)
  - Riparian Herbaceous Cover (390)
  - Silvopasture Establishment (381)
  - Stripcropping (585)
  - Tree/Shrub Establishment (612)
  - Upland Wildlife Habitat Management (645)
  - Watering Facility (614)
  - Wetland Creation (658)
  - Wetland Enhancement (659)
  - Wetland Restoration (657)
- Fish and Wildlife - Inadequate Habitat: Inadequate Habitat - Water
  - Access Control (472)
  - Dike (356)

- Grade Stabilization Structure (410)
- Grassed Waterway (412)
- Pond (378)
- Restoration and Management of Declining (643)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Sediment Basin (350)
- Structure for Water Control (587)
- Water and Sediment Control Basin (638)
- Water Well (642)
- Watering Facility (614)
- Wetland Creation (658)
- Wetland Enhancement (659)
- Wetland Restoration (657)
- Inefficient Energy Use: Farming/Ranching Practices and Field Operations
  - Composting Facility (317)
  - Conservation Crop Rotation (328)
  - Contour Buffer Strips (332)
  - Cover Crop (340)
  - Grassed Waterway (412)
  - Livestock Pipeline (516)
  - Pumping Plant (533)
  - Residue and Tillage Mgmt-No-Till (329)
  - Riparian Herbaceous Cover (390)
  - Terrace (600)
  - Underground Outlet (620)
- Insufficient Water: Inefficient Moisture Management
  - Access Control (472)
  - Conservation Cover (327)
  - Conservation Crop Rotation (328)
  - Contour Buffer Strips (332)
  - Cover Crop (340)
  - Diversion (362)
  - Mulching (484)
  - Pond (378)
  - Prescribed Grazing (528)
  - Pumping Plant (533)
  - Residue and Tillage Mgmt-No-Till (329)
  - Roof Runoff Structure (558)
  - Silvopasture Establishment (381)
  - Stripcropping (585)
  - Structure for Water Control (587)
  - Subsurface Drain (606)
  - Terrace (600)
  - Tree/Shrub Establishment (612)
  - Tree/Shrub Site Preparation (490)
  - Waste Transfer (634)
- Insufficient Water: Inefficient Use of Irrigation Water
  - Conservation Crop Rotation (328)
  - Cover Crop (340)
  - Diversion (362)
  - Herbaceous Weed Control (315)
  - Mulching (484)
  - Pond (378)
  - Pumping Plant (533)
  - Residue and Tillage Mgmt-No-Till (329)
  - Structure for Water Control (587)
  - Subsurface Drain (606)
  - Waste Separation Facility (632)
  - Waste Storage Facility (313)
  - Waste Treatment (629)

- Water Well (642)
- Livestock Production Limitation: Inadequate Feed and Forage
  - Access Control (472)
  - Conservation Crop Rotation (328)
  - Contour Buffer Strips (332)
  - Cover Crop (340)
  - Fence (382)
  - Forage and Biomass Planting (512)
  - Grassed Waterway (412)
  - Herbaceous Weed Control (315)
  - Nutrient Management (590)
  - Prescribed Grazing (528)
  - Restoration and Management of Declining (643)
  - Riparian Forest Buffer (391)
  - Riparian Herbaceous Cover (390)
  - Silvopasture Establishment (381)
  - Subsurface Drain (606)
  - Upland Wildlife Habitat Management (645)
  - Vegetative Treatment Area (635)
  - Water Well (642)
  - Watering Facility (614)
  - Wetland Creation (658)
  - Wetland Enhancement (659)
  - Wetland Restoration (657)
- Livestock Production Limitation: Inadequate Shelter
  - Access Control (472)
  - Prescribed Grazing (528)
  - Riparian Forest Buffer (391)
  - Silvopasture Establishment (381)
  - Tree/Shrub Establishment (612)
- Livestock Production Limitation: Inadequate Water
  - Livestock Pipeline (516)
  - Nutrient Management (590)
  - Pond (378)
  - Pumping Plant (533)
  - Roof Runoff Structure (558)
  - Structure for Water Control (587)
  - Waste Separation Facility (632)
  - Waste Treatment (629)
  - Water Well (642)
  - Watering Facility (614)
- Soil Erosion: Classic Gully Erosion
  - Access Control (472)
  - Conservation Cover (327)
  - Contour Buffer Strips (332)
  - Critical Area Planting (342)
  - Dike (356)
  - Diversion (362)
  - Grade Stabilization Structure (410)
  - Grassed Waterway (412)
  - Herbaceous Weed Control (315)
  - Lined Waterway or Outlet (468)
  - Mulching (484)
  - Pond (378)
  - Prescribed Grazing (528)
  - Riparian Forest Buffer (391)
  - Roof Runoff Structure (558)
  - Sediment Basin (350)
  - Silvopasture Establishment (381)
  - Subsurface Drain (606)
  - Terrace (600)

- Tree/Shrub Establishment (612)
- Underground Outlet (620)
- Upland Wildlife Habitat Management (645)
- Water and Sediment Control Basin (638)
- Watering Facility (614)
- Soil Erosion: Ephemeral Gully Erosion
  - Access Control (472)
  - Comprehensive Nutrient Management Plan - (102)
  - Conservation Cover (327)
  - Conservation Crop Rotation (328)
  - Contour Buffer Strips (332)
  - Cover Crop (340)
  - Critical Area Planting (342)
  - Diversion (362)
  - Field Border (386)
  - Grassed Waterway (412)
  - Heavy Use Area Protection (561)
  - Herbaceous Weed Control (315)
  - Lined Waterway or Outlet (468)
  - Mulching (484)
  - Prescribed Grazing (528)
  - Residue and Tillage Mgmt-No-Till (329)
  - Restoration and Management of Declining (643)
  - Riparian Forest Buffer (391)
  - Riparian Herbaceous Cover (390)
  - Roof Runoff Structure (558)
  - Sediment Basin (350)
  - Silvopasture Establishment (381)
  - Stripcropping (585)
  - Subsurface Drain (606)
  - Terrace (600)
  - Tree/Shrub Establishment (612)
  - Underground Outlet (620)
  - Upland Wildlife Habitat Management (645)
  - Water and Sediment Control Basin (638)
  - Water Well (642)
  - Watering Facility (614)
- Soil Erosion: Sheet and Rill Erosion
  - Access Control (472)
  - Comprehensive Nutrient Management Plan - (102)
  - Conservation Cover (327)
  - Conservation Crop Rotation (328)
  - Contour Buffer Strips (332)
  - Cover Crop (340)
  - Critical Area Planting (342)
  - Diversion (362)
  - Fence (382)
  - Field Border (386)
  - Forage and Biomass Planting (512)
  - Heavy Use Area Protection (561)
  - Herbaceous Weed Control (315)
  - Mulching (484)
  - Prescribed Grazing (528)
  - Residue and Tillage Mgmt-No-Till (329)
  - Restoration and Management of Declining (643)
  - Riparian Forest Buffer (391)
  - Riparian Herbaceous Cover (390)
  - Roof Runoff Structure (558)
  - Silvopasture Establishment (381)
  - Stripcropping (585)
  - Subsurface Drain (606)

- Terrace (600)
- Tree/Shrub Establishment (612)
- Upland Wildlife Habitat Management (645)
- Vegetative Treatment Area (635)
- Water Well (642)
- Watering Facility (614)
- Soil Erosion: Streambank, Shoreline, Water Conveyance Channels
  - Access Control (472)
  - Conservation Cover (327)
  - Contour Buffer Strips (332)
  - Critical Area Planting (342)
  - Diversion (362)
  - Field Border (386)
  - Grade Stabilization Structure (410)
  - Grassed Waterway (412)
  - Herbaceous Weed Control (315)
  - Mulching (484)
  - Pond (378)
  - Prescribed Grazing (528)
  - Riparian Forest Buffer (391)
  - Riparian Herbaceous Cover (390)
  - Roof Runoff Structure (558)
  - Silvopasture Establishment (381)
  - Subsurface Drain (606)
  - Terrace (600)
  - Tree/Shrub Establishment (612)
  - Upland Wildlife Habitat Management (645)
  - Watering Facility (614)
- Soil Quality Degradation: Compaction
  - Access Control (472)
  - Conservation Cover (327)
  - Conservation Crop Rotation (328)
  - Cover Crop (340)
  - Critical Area Planting (342)
  - Fence (382)
  - Field Border (386)
  - Filter Strip (393)
  - Forage and Biomass Planting (512)
  - Prescribed Grazing (528)
  - Residue and Tillage Mgmt-No-Till (329)
  - Riparian Forest Buffer (391)
  - Riparian Herbaceous Cover (390)
  - Subsurface Drain (606)
  - Tree/Shrub Establishment (612)
  - Vegetative Treatment Area (635)
  - Waste Storage Facility (313)
  - Waste Treatment (629)
- Soil Quality Degradation: Concentration of Salts or Other Chemicals
  - Conservation Cover (327)
  - Conservation Crop Rotation (328)
  - Cover Crop (340)
  - Critical Area Planting (342)
  - Mulching (484)
  - Nutrient Management (590)
  - Prescribed Grazing (528)
  - Riparian Forest Buffer (391)
  - Riparian Herbaceous Cover (390)
  - Subsurface Drain (606)
  - Tree/Shrub Establishment (612)
  - Waste Storage Facility (313)
- Soil Quality Degradation: Organic Matter Depletion

Access Control (472)  
 Conservation Cover (327)  
 Conservation Crop Rotation (328)  
 Contour Buffer Strips (332)  
 Cover Crop (340)  
 Critical Area Planting (342)  
 Field Border (386)  
 Filter Strip (393)  
 Forage and Biomass Planting (512)  
 Grassed Waterway (412)  
 Mulching (484)  
 Nutrient Management (590)  
 Prescribed Grazing (528)  
 Residue and Tillage Mgmt-No-Till (329)  
 Riparian Forest Buffer (391)  
 Riparian Herbaceous Cover (390)  
 Silvopasture Establishment (381)  
 Stripcropping (585)  
 Terrace (600)  
 Tree/Shrub Establishment (612)  
 Vegetative Treatment Area (635)  
 Waste Separation Facility (632)  
 Waste Storage Facility (313)  
 Waste Treatment (629)  
 Wetland Creation (658)  
 Wetland Enhancement (659)  
 Wetland Restoration (657)

Water Quality Degradation: Elevated Water Temperature

Access Control (472)  
 Prescribed Grazing (528)  
 Restoration and Management of Declining (643)  
 Riparian Forest Buffer (391)  
 Riparian Herbaceous Cover (390)  
 Silvopasture Establishment (381)  
 Structure for Water Control (587)  
 Tree/Shrub Establishment (612)  
 Watering Facility (614)

Water Quality Degradation: Excess Pathogens and Chemicals from Manure, Bio-solids or Compost Applications in Groundwater

Access Control (472)  
 Animal Mortality Facility (316)  
 Composting Facility (317)  
 Comprehensive Nutrient Management Plan - (102)  
 Conservation Cover (327)  
 Cover Crop (340)  
 Filter Strip (393)  
 Nutrient Management (590)  
 Prescribed Grazing (528)  
 Riparian Forest Buffer (391)  
 Riparian Herbaceous Cover (390)  
 Roofs and Covers (367)  
 Silvopasture Establishment (381)  
 Subsurface Drain (606)  
 Tree/Shrub Establishment (612)  
 Waste Facility Closure (360)  
 Waste Separation Facility (632)  
 Waste Storage Facility (313)  
 Waste Transfer (634)  
 Waste Treatment (629)  
 Watering Facility (614)

Water Quality Degradation: Excess Pathogens and Chemicals from Manure, Bio-solids or Compost

## Applications in Surface Water

- Access Control (472)
- Animal Mortality Facility (316)
- Composting Facility (317)
- Comprehensive Nutrient Management Plan - (102)
- Conservation Cover (327)
- Conservation Crop Rotation (328)
- Contour Buffer Strips (332)
- Cover Crop (340)
- Diversion (362)
- Fence (382)
- Field Border (386)
- Filter Strip (393)
- Forage and Biomass Planting (512)
- Grassed Waterway (412)
- Heavy Use Area Protection (561)
- Nutrient Management (590)
- Prescribed Grazing (528)
- Residue and Tillage Mgmt-No-Till (329)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Roof Runoff Structure (558)
- Sediment Basin (350)
- Silvopasture Establishment (381)
- Stripcropping (585)
- Terrace (600)
- Tree/Shrub Establishment (612)
- Vegetative Treatment Area (635)
- Waste Separation Facility (632)
- Waste Storage Facility (313)
- Waste Transfer (634)
- Waste Treatment (629)
- Watering Facility (614)
- Wetland Creation (658)
- Wetland Enhancement (659)
- Wetland Restoration (657)

## Water Quality Degradation: Excessive Sediment in Surface Water

- Access Control (472)
- Conservation Cover (327)
- Conservation Crop Rotation (328)
- Contour Buffer Strips (332)
- Cover Crop (340)
- Critical Area Planting (342)
- Diversion (362)
- Field Border (386)
- Filter Strip (393)
- Forage and Biomass Planting (512)
- Grade Stabilization Structure (410)
- Grassed Waterway (412)
- Heavy Use Area Protection (561)
- Lined Waterway or Outlet (468)
- Mulching (484)
- Pond (378)
- Prescribed Grazing (528)
- Residue and Tillage Mgmt-No-Till (329)
- Restoration and Management of Declining (643)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Roof Runoff Structure (558)
- Sediment Basin (350)
- Silvopasture Establishment (381)

- Stripcropping (585)
- Structure for Water Control (587)
- Subsurface Drain (606)
- Terrace (600)
- Tree/Shrub Establishment (612)
- Upland Wildlife Habitat Management (645)
- Vegetative Treatment Area (635)
- Water and Sediment Control Basin (638)
- Watering Facility (614)
- Wetland Creation (658)
- Wetland Enhancement (659)
- Wetland Restoration (657)
- Water Quality Degradation: Nutrients in Groundwater
  - Access Control (472)
  - Animal Mortality Facility (316)
  - Composting Facility (317)
  - Comprehensive Nutrient Management Plan - (102)
  - Conservation Cover (327)
  - Conservation Crop Rotation (328)
  - Cover Crop (340)
  - Critical Area Planting (342)
  - Field Border (386)
  - Filter Strip (393)
  - Lined Waterway or Outlet (468)
  - Nutrient Management (590)
  - Prescribed Grazing (528)
  - Riparian Forest Buffer (391)
  - Riparian Herbaceous Cover (390)
  - Roof Runoff Structure (558)
  - Silvopasture Establishment (381)
  - Subsurface Drain (606)
  - Tree/Shrub Establishment (612)
  - Waste Facility Closure (360)
  - Waste Separation Facility (632)
  - Waste Storage Facility (313)
  - Waste Transfer (634)
  - Waste Treatment (629)
  - Wetland Creation (658)
  - Wetland Enhancement (659)
  - Wetland Restoration (657)
- Water Quality Degradation: Nutrients in Surface water
  - Access Control (472)
  - Animal Mortality Facility (316)
  - Composting Facility (317)
  - Comprehensive Nutrient Management Plan - (102)
  - Conservation Cover (327)
  - Conservation Crop Rotation (328)
  - Contour Buffer Strips (332)
  - Cover Crop (340)
  - Critical Area Planting (342)
  - Field Border (386)
  - Filter Strip (393)
  - Forage and Biomass Planting (512)
  - Grassed Waterway (412)
  - Heavy Use Area Protection (561)
  - Mulching (484)
  - Nutrient Management (590)
  - Pond (378)
  - Prescribed Grazing (528)
  - Residue and Tillage Mgmt-No-Till (329)
  - Riparian Forest Buffer (391)

- Riparian Herbaceous Cover (390)
- Roof Runoff Structure (558)
- Sediment Basin (350)
- Silvopasture Establishment (381)
- Stripcropping (585)
- Terrace (600)
- Tree/Shrub Establishment (612)
- Vegetative Treatment Area (635)
- Waste Facility Closure (360)
- Waste Separation Facility (632)
- Waste Storage Facility (313)
- Waste Transfer (634)
- Waste Treatment (629)
- Watering Facility (614)
- Wetland Creation (658)
- Wetland Enhancement (659)
- Wetland Restoration (657)

Water Quality Degradation: Pesticides in Groundwater

- Conservation Cover (327)
- Conservation Crop Rotation (328)
- Cover Crop (340)
- Dike (356)
- Diversion (362)
- Field Border (386)
- Filter Strip (393)
- Prescribed Grazing (528)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Silvopasture Establishment (381)
- Subsurface Drain (606)
- Tree/Shrub Establishment (612)
- Wetland Creation (658)
- Wetland Enhancement (659)
- Wetland Restoration (657)

Water Quality Degradation: Pesticides in Surface Water

- Access Control (472)
- Conservation Cover (327)
- Conservation Crop Rotation (328)
- Contour Buffer Strips (332)
- Cover Crop (340)
- Dike (356)
- Diversion (362)
- Field Border (386)
- Filter Strip (393)
- Forage and Biomass Planting (512)
- Grassed Waterway (412)
- Mulching (484)
- Prescribed Grazing (528)
- Residue and Tillage Mgmt-No-Till (329)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Sediment Basin (350)
- Silvopasture Establishment (381)
- Stripcropping (585)
- Subsurface Drain (606)
- Terrace (600)
- Tree/Shrub Establishment (612)
- Wetland Creation (658)
- Wetland Enhancement (659)
- Wetland Restoration (657)

Water Quality Degradation: Petroleum, Heavy Metals and Other Pollutants Transported to Groundwater

- Access Control (472)
- Filter Strip (393)
- Nutrient Management (590)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Roofs and Covers (367)
- Silvopasture Establishment (381)
- Subsurface Drain (606)
- Tree/Shrub Establishment (612)
- Waste Separation Facility (632)
- Waste Storage Facility (313)
- Waste Treatment (629)

Water Quality Degradation: Petroleum, Heavy Metals and Other Pollutants Transported to Surface Water

- Access Control (472)
- Diversion (362)
- Filter Strip (393)
- Forage and Biomass Planting (512)
- Grassed Waterway (412)
- Nutrient Management (590)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Roofs and Covers (367)
- Sediment Basin (350)
- Silvopasture Establishment (381)
- Terrace (600)
- Tree/Shrub Establishment (612)
- Waste Separation Facility (632)
- Waste Treatment (629)
- Watering Facility (614)
- Wetland Creation (658)
- Wetland Enhancement (659)
- Wetland Restoration (657)

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