

Ranking Tool Summary

for FY2017 - Livestock

(Released 12/29/2016)

Description:

The primary goal of applications within this fund pool is to improve water quality via the installation/implementation of conservation practices that address water quality degradation to vulnerable water features. Vulnerable water features are: ponds (that have outflow to other water features), streams (perennial or intermittent) - that have a definable stream channel with bed and bank, wetlands, sinkholes in karst topography, and springs. Supporting or associated conservation practices that will be installed/implemented in association with applications within this fund pool will address the following: soil erosion, soil quality degradation, degraded plant condition, insufficient water for livestock, and livestock production limitations.

Land Uses:

Associated Agriculture Land, Farmstead, Pasture

Efficiency Score:

Scoring Multiplier: 7.840

Optional Notes:

The following definitions apply to this ranking tool. Operating Unit: Any parcels of land, whether contiguous or noncontiguous, constituting a single management unit for agricultural purposes. (An operating unit is designated as located in the county in which the principal dwelling is situated, or, if there is no dwelling thereon, it is regarded to be in the county in which the major portion of the land is located.) From 440-502 Terms and Abbreviations Common to all Programs A Conservation Management Unit (CMU).—A field, CLU, group of fields, or other land units of the same land use and having similar treatment needs and planned management. A CMU, made up of one or more planning land units (PLU), has definite boundaries, such as fence, drainage, vegetation, topography, soil lines, or land use, and is used by the planner to simplify planning activities and facilitate development of management systems. From 440-502 Terms and Abbreviations Common to all Programs.

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 crops with lower water consumptive use, the rotation of crops, or the modification of cultural operations?	10
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		Water Quality: Applications include practices to be implemented on the Operating Unit and/or Conservation Management Unit (CMU)* that address water quality degradation occurring from livestock access to a Vulnerable Water Feature. Maximum 75 points. Questions 1-6: Only one Yes allowed.	
	1	The application includes conservation practices (382, 390 or 391, and 472) that establishes a 35-foot (or greater) riparian buffer (planted or natural succession) and excludes livestock access to 100% of the Vulnerable Water Features that flow off of the Operating Unit. The water quality degradation's source is livestock that is, at the time of the Inventory and Evaluation, actively degrading the Vulnerable Water Features. Visual evidence of the water quality degradation must be witnessed and documented at the time of the Inventory and Evaluation.	75
	2	The application includes conservation practices (382, and 472) that excludes livestock access to 100% of the Vulnerable Water Features that flow off the Operating Unit. The water quality degradation's source is livestock that is, at the time of the Inventory and Evaluation, actively degrading the Vulnerable Water Features. Visual evidence of the water quality degradation must be witnessed and documented at the time of the Inventory and Evaluation.	65
	3	The application includes conservation practices (382, 390 or 391, and 472) that establishes a 35-foot (or greater) riparian buffer (planted or natural succession) and excludes livestock access to less than 100% but more than 50% of the Vulnerable Water Features that flow off the Operating Unit. The water quality degradation's source is livestock that is, at the time of the Inventory and Evaluation, actively degrading the Vulnerable Water Features. Visual evidence of the water quality degradation must be witnessed and documented at the time of the Inventory and Evaluation.	60
	4	The application includes conservation practices (382 and 472) that exclude livestock access to less than 100% but more than 50% of the Vulnerable Water Features that flow off the Operating Unit. The water quality degradation's source is livestock that is, at the time of the Inventory and Evaluation, actively degrading the Vulnerable Water Features. Visual evidence of the water quality degradation must be witnessed and documented at the time of the Inventory and Evaluation.	50
	5	The application includes conservation practices (382, 390 or 391, and 472) that establishes a 35-foot (or greater) riparian buffer (planted or natural succession) and excludes livestock access to less than 50% of the Vulnerable Water Features	45

		that flow off the Operating Unit. The water quality degradation's source is livestock that is, at the time of the Inventory and Evaluation, actively degrading the Vulnerable Water Features. Visual evidence of the water quality degradation must be witnessed and documented at the time of the Inventory and Evaluation.	
	6	The application includes conservation practices (382 and 472) that exclude livestock access to less than 50% of the Vulnerable Water Features that flow off the Operating Unit. The water quality degradation's source is livestock that is, at the time of the Inventory and Evaluation, actively degrading the Vulnerable Water Features. Visual evidence of the water quality degradation must be witnessed and documented at the time of the Inventory and Evaluation.	35
2		Water Quality: The magnitude of the expected conservation benefits (Nitrogen Reduction) resulting from livestock exclusion from a Vulnerable Water Feature. Maximum 100 points. Questions 1-5: Only one yes allowed. Dairy, beef, horse, and sheep manure production values are based on the NRCS Agricultural Waste Management Field Handbook, Chapter 4.	
	1	The magnitude of the expected conservation benefits resulting from Livestock Exclusion is greater than or equal to: 6,500 lbs of N.	100
	2	The magnitude of the expected conservation benefits resulting from Livestock Exclusion is greater than or equal to: 1,500 lbs of N, but less than 6,500 lbs of N.	80
	3	The magnitude of the expected conservation benefits resulting from Livestock Exclusion is greater than or equal to: 1,000 lbs of N, but less than 1,499 lbs of N.	60
	4	The magnitude of the expected conservation benefits resulting from Livestock Exclusion is greater than or equal to: 650 lbs of N, but less than 1,000 lbs of N.	40
	5	The magnitude of the expected conservation benefits resulting from Livestock Exclusion is less than 650 lbs of N.	20
3		Water Quality: Applications include practices that address water quality degradation to a Vulnerable Water Feature occurring from Animal Concentration Areas (ACAs). Questions 1-3: Only one Yes allowed - maximum 60 points. Applications that include a 561* MUST also implement a Loafing Lot System with a sacrifice area, OR a Prescribed Grazing System to properly address the resource concern. *561s that are associated with 100% confinement do not need to implement a Prescribed Grazing System or Loafing Lot System.	
	1	Prescribed Grazing Option: The application includes one or more conservation practices (313, 367, 393, 527, 561) that, when installed, will eliminate water quality degradation to a water feature or open sinkhole. The water quality degradation's source is stormwater run-off from a concentrated livestock area. Visual evidence of the water quality degradation must be witnessed and documented at the time of the Inventory and Evaluation. (Planners should reference the Water Quality Planning Criteria.)	60
	2	Loafing Lot Option: The application includes one or more conservation practices (313, 367, 561) that will result in the creation of a loafing lot management system, which, when installed, will eliminate water quality degradation to a water feature or open sinkhole. The water quality degradation's source is stormwater run-off from a concentrated livestock area. Visual evidence of the water quality degradation must be witnessed and documented at the time of the Inventory and Evaluation. (Planners should reference the Water Quality Planning Criteria.)	50
	3	The application includes conservation practices, 313 or 561, to be implemented on a 100 percent livestock confinement operation OR a livestock operation that needs additional waste storage. The practices will, when installed, result in adequate storage and proper application of nutrients from animal manures produced on the farm. (Planners should reference the Water Quality Planning Criteria.)	40
4		Soil Erosion: maximum 85 points	
	1	The application includes one or more conservation practices (342, 472, 412, 575) that will eliminate erosion and sedimentation caused by livestock that is reaching water features.	50
	2	The application includes conservation practice 612 that will convert marginal grazing land to trees. Minimum PLU is a CLU. Only applicable on CLUs where the predominant soil has a Capability Class or 3 or greater.	35
5		Soil Quality: 100% Grazing Operations Only. Questions 1-2: Only one Yes allowed - maximum 80 points	
	1	The grazing operation on the land offered in the application will be managed according to a NEW (not currently under contract) INTENSIVE Prescribed Grazing	80

		Plan (528).	
	2	The grazing operation on the land offered in the application will be managed according to a NEW (not currently under contract) STANDARD Prescribed Grazing Plan (528).	50
Maximum Points: 400 Total Points			995

Local Issues:

Scoring Multiplier: 1.000

Questions:

Sub-heading Number	Question Number	Question	Points
1		Geographic and Resource Priorities: Virginia 12-Digit HUCS containing TMDL Streams: Prioritized by Non-Point Source Pollution Risks from Agriculture. Only one yes allowed for questions 1-3.	
	1	Within a High Priority HUC	200
	2	Within a Medium Priority HUC	150
	3	Within a Low Priority HUC	100
2		Geographic and Resource Priorities: Chesapeake Bay	
	1	The area being considered is within the Chesapeake Bay Watershed.	25
3		Threatened and Endangered Species	
	1	Will the project occur within 2 miles of, AND provide a direct benefit to a species that is in the Toolkit layer T&E species (either DGIF or Natural Heritage). The direct benefit shall be confirmed by a biologist and documentation exists to substantiate points awarded.	25
Maximum Points: 250 Total Points			500

Selected Resource Concerns and Practices:

Degraded Plant Condition: Excessive Plant Pest Pressure

- Access Control (472)
- Brush Management (314)
- Composting Facility (317)
- Conservation Cover (327)
- Critical Area Planting (342)
- Firebreak (394)
- Grassed Waterway (412)
- Hedgerow Planting (422)
- Herbaceous Weed Control (315)
- Irrigation Water Management (449)
- Mulching (484)
- Prescribed Burning (338)
- Prescribed Grazing (528)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Streambank and Shoreline Protection (580)
- Tree/Shrub Establishment (612)
- Tree/Shrub Site Preparation (490)
- Waste Transfer (634)
- Windbreak/Shelterbelt Establishment (380)

Degraded Plant Condition: Inadequate Structure and Composition

- Access Control (472)
- Brush Management (314)
- Conservation Cover (327)
- Critical Area Planting (342)
- Filter Strip (393)
- Forage and Biomass Planting (512)
- Grassed Waterway (412)
- Hedgerow Planting (422)
- Herbaceous Weed Control (315)

- Nutrient Management (590)
- Prescribed Burning (338)
- Prescribed Grazing (528)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Silvopasture Establishment (381)
- Streambank and Shoreline Protection (580)
- Tree/Shrub Establishment (612)
- Tree/Shrub Site Preparation (490)
- Windbreak/Shelterbelt Establishment (380)

Degraded Plant Condition: Undesirable Plant Productivity and Health

- Access Control (472)
- Access Road (560)
- Amendments for Treatment of Ag Waste (591)
- Brush Management (314)
- Conservation Cover (327)
- Critical Area Planting (342)
- Diversion (362)
- Fence (382)
- Filter Strip (393)
- Firebreak (394)
- Forage and Biomass Planting (512)
- Grassed Waterway (412)
- Hedgerow Planting (422)
- Herbaceous Weed Control (315)
- Irrigation Pipeline (430)
- Irrigation Water Management (449)
- Livestock Pipeline (516)
- Mulching (484)
- Nutrient Management (590)
- Pond (378)
- Pond Sealing or Lining, Compacted Soil T (520)
- Pond Sealing or Lining, Concrete (522)
- Pond Sealing or Lining, Flexible Membran (521A)
- Prescribed Burning (338)
- Prescribed Grazing (528)
- Pumping Plant (533)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Silvopasture Establishment (381)
- Spring Development (574)
- Streambank and Shoreline Protection (580)
- Subsurface Drain (606)
- Tree/Shrub Establishment (612)
- Tree/Shrub Site Preparation (490)
- Underground Outlet (620)
- Waste Storage Facility (313)
- Waste Treatment (629)
- Waste Treatment Lagoon (359)
- Water Well (642)
- Watering Facility (614)
- Windbreak/Shelterbelt Establishment (380)

Insufficient Water: Inefficient Use of Irrigation Water

- Access Road (560)
- Amendments for Treatment of Ag Waste (591)
- Diversion (362)
- Herbaceous Weed Control (315)
- Irrigation Pipeline (430)
- Irrigation Water Management (449)
- Mulching (484)
- Pond (378)
- Pond Sealing or Lining, Compacted Soil T (520)
- Pond Sealing or Lining, Concrete (522)
- Pond Sealing or Lining, Flexible Membran (521A)
- Pumping Plant (533)
- Spring Development (574)

- Structure for Water Control (587)
- Subsurface Drain (606)
- Waste Separation Facility (632)
- Waste Storage Facility (313)
- Waste Treatment (629)
- Waste Treatment Lagoon (359)
- Water Well (642)
- Windbreak/Shelterbelt Establishment (380)
- Livestock Production Limitation: Inadequate Feed and Forage
 - Access Control (472)
 - Brush Management (314)
 - Fence (382)
 - Forage and Biomass Planting (512)
 - Grassed Waterway (412)
 - Herbaceous Weed Control (315)
 - Irrigation Water Management (449)
 - Nutrient Management (590)
 - Prescribed Burning (338)
 - Prescribed Grazing (528)
 - Riparian Herbaceous Cover (390)
 - Silvopasture Establishment (381)
 - Spring Development (574)
 - Stream Crossing (578)
 - Streambank and Shoreline Protection (580)
 - Subsurface Drain (606)
 - Trails and Walkways (575)
 - Water Well (642)
 - Watering Facility (614)
 - Windbreak/Shelterbelt Establishment (380)
- Livestock Production Limitation: Inadequate Shelter
 - Access Control (472)
 - Hedgerow Planting (422)
 - Prescribed Burning (338)
 - Prescribed Grazing (528)
 - Silvopasture Establishment (381)
 - Tree/Shrub Establishment (612)
 - Windbreak/Shelterbelt Establishment (380)
- Livestock Production Limitation: Inadequate Water
 - Amendments for Treatment of Ag Waste (591)
 - Livestock Pipeline (516)
 - Pond (378)
 - Pond Sealing or Lining, Compacted Soil T (520)
 - Pond Sealing or Lining, Concrete (522)
 - Pond Sealing or Lining, Flexible Membran (521A)
 - Pumping Plant (533)
 - Roof Runoff Structure (558)
 - Spring Development (574)
 - Stream Crossing (578)
 - Structure for Water Control (587)
 - Trails and Walkways (575)
 - Waste Separation Facility (632)
 - Waste Treatment (629)
 - Water Well (642)
 - Watering Facility (614)
- Soil Erosion: Classic Gully Erosion
 - Access Control (472)
 - Access Road (560)
 - Brush Management (314)
 - Conservation Cover (327)
 - Critical Area Planting (342)
 - Diversion (362)
 - Firebreak (394)
 - Grade Stabilization Structure (410)
 - Grassed Waterway (412)
 - Heavy Use Area Protection (561)
 - Herbaceous Weed Control (315)

- Irrigation Pipeline (430)
- Karst Sinkhole Treatment (527)
- Lined Waterway or Outlet (468)
- Pond (378)
- Prescribed Burning (338)
- Prescribed Grazing (528)
- Riparian Forest Buffer (391)
- Roof Runoff Structure (558)
- Sediment Basin (350)
- Silvopasture Establishment (381)
- Spring Development (574)
- Subsurface Drain (606)
- Trails and Walkways (575)
- Tree/Shrub Establishment (612)
- Tree/Shrub Site Preparation (490)
- Underground Outlet (620)
- Watering Facility (614)

Soil Erosion: Ephemeral Gully Erosion

- Access Control (472)
- Access Road (560)
- Brush Management (314)
- Conservation Cover (327)
- Critical Area Planting (342)
- Diversion (362)
- Firebreak (394)
- Grassed Waterway (412)
- Heavy Use Area Protection (561)
- Herbaceous Weed Control (315)
- Karst Sinkhole Treatment (527)
- Lined Waterway or Outlet (468)
- Prescribed Burning (338)
- Prescribed Grazing (528)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Roof Runoff Structure (558)
- Sediment Basin (350)
- Silvopasture Establishment (381)
- Subsurface Drain (606)
- Trails and Walkways (575)
- Tree/Shrub Establishment (612)
- Tree/Shrub Site Preparation (490)
- Underground Outlet (620)
- Waste Transfer (634)
- Water Well (642)
- Watering Facility (614)
- Windbreak/Shelterbelt Establishment (380)

Soil Erosion: Sheet and Rill Erosion

- Access Control (472)
- Access Road (560)
- Brush Management (314)
- Conservation Cover (327)
- Critical Area Planting (342)
- Diversion (362)
- Fence (382)
- Firebreak (394)
- Forage and Biomass Planting (512)
- Heavy Use Area Protection (561)
- Herbaceous Weed Control (315)
- Mulching (484)
- Prescribed Burning (338)
- Prescribed Grazing (528)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Roof Runoff Structure (558)
- Silvopasture Establishment (381)
- Subsurface Drain (606)

- Trails and Walkways (575)
- Tree/Shrub Establishment (612)
- Tree/Shrub Site Preparation (490)
- Waste Transfer (634)
- Water Well (642)
- Watering Facility (614)
- Windbreak/Shelterbelt Establishment (380)
- Soil Erosion: Streambank, Shoreline, Water Conveyance Channels
 - Access Control (472)
 - Conservation Cover (327)
 - Critical Area Planting (342)
 - Diversion (362)
 - Grade Stabilization Structure (410)
 - Grassed Waterway (412)
 - Herbaceous Weed Control (315)
 - Pond (378)
 - Prescribed Burning (338)
 - Prescribed Grazing (528)
 - Riparian Forest Buffer (391)
 - Riparian Herbaceous Cover (390)
 - Roof Runoff Structure (558)
 - Silvopasture Establishment (381)
 - Spring Development (574)
 - Stream Crossing (578)
 - Streambank and Shoreline Protection (580)
 - Subsurface Drain (606)
 - Trails and Walkways (575)
 - Tree/Shrub Establishment (612)
 - Underground Outlet (620)
 - Watering Facility (614)
- Soil Erosion: Wind Erosion
 - Access Control (472)
 - Brush Management (314)
 - Conservation Cover (327)
 - Critical Area Planting (342)
 - Firebreak (394)
 - Forage and Biomass Planting (512)
 - Heavy Use Area Protection (561)
 - Hedgerow Planting (422)
 - Herbaceous Weed Control (315)
 - Irrigation Water Management (449)
 - Mulching (484)
 - Prescribed Burning (338)
 - Prescribed Grazing (528)
 - Riparian Forest Buffer (391)
 - Riparian Herbaceous Cover (390)
 - Silvopasture Establishment (381)
 - Subsurface Drain (606)
 - Trails and Walkways (575)
 - Tree/Shrub Establishment (612)
 - Tree/Shrub Site Preparation (490)
 - Waste Transfer (634)
 - Water Well (642)
 - Watering Facility (614)
 - Windbreak/Shelterbelt Establishment (380)
- Soil Quality Degradation: Compaction
 - Access Control (472)
 - Access Road (560)
 - Conservation Cover (327)
 - Critical Area Planting (342)
 - Fence (382)
 - Firebreak (394)
 - Forage and Biomass Planting (512)
 - Heavy Use Area Protection (561)
 - Hedgerow Planting (422)
 - Nutrient Management (590)

- Prescribed Grazing (528)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Spring Development (574)
- Subsurface Drain (606)
- Trails and Walkways (575)
- Tree/Shrub Establishment (612)
- Tree/Shrub Site Preparation (490)
- Waste Storage Facility (313)
- Waste Transfer (634)
- Waste Treatment (629)
- Waste Treatment Lagoon (359)
- Windbreak/Shelterbelt Establishment (380)
- Soil Quality Degradation: Organic Matter Depletion
 - Access Control (472)
 - Amendments for Treatment of Ag Waste (591)
 - Conservation Cover (327)
 - Critical Area Planting (342)
 - Filter Strip (393)
 - Firebreak (394)
 - Forage and Biomass Planting (512)
 - Grassed Waterway (412)
 - Hedgerow Planting (422)
 - Irrigation Water Management (449)
 - Mulching (484)
 - Nutrient Management (590)
 - Prescribed Burning (338)
 - Prescribed Grazing (528)
 - Riparian Forest Buffer (391)
 - Riparian Herbaceous Cover (390)
 - Silvopasture Establishment (381)
 - Subsurface Drain (606)
 - Tree/Shrub Establishment (612)
 - Tree/Shrub Site Preparation (490)
 - Waste Separation Facility (632)
 - Waste Storage Facility (313)
 - Waste Treatment (629)
 - Waste Treatment Lagoon (359)
 - Windbreak/Shelterbelt Establishment (380)
- Water Quality Degradation: Elevated Water Temperature
 - Access Control (472)
 - Hedgerow Planting (422)
 - Prescribed Grazing (528)
 - Riparian Forest Buffer (391)
 - Riparian Herbaceous Cover (390)
 - Silvopasture Establishment (381)
 - Streambank and Shoreline Protection (580)
 - 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)
 - Amendments for Treatment of Ag Waste (591)
 - Animal Mortality Facility (316)
 - Composting Facility (317)
 - Conservation Cover (327)
 - Filter Strip (393)
 - Irrigation Pipeline (430)
 - Irrigation Water Management (449)
 - Karst Sinkhole Treatment (527)
 - Nutrient Management (590)
 - Pond Sealing or Lining, Compacted Soil T (520)
 - Pond Sealing or Lining, Concrete (522)
 - Pond Sealing or Lining, Flexible Membran (521A)
 - Prescribed Grazing (528)

- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Roofs and Covers (367)
- Sediment Basin (350)
- 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)
- Waste Treatment Lagoon (359)
- Watering Facility (614)
- Well Decommissioning (351)

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

- Access Control (472)
- Amendments for Treatment of Ag Waste (591)
- Anaerobic Digester (366)
- Animal Mortality Facility (316)
- Composting Facility (317)
- Conservation Cover (327)
- Diversion (362)
- Fence (382)
- Filter Strip (393)
- Forage and Biomass Planting (512)
- Grassed Waterway (412)
- Heavy Use Area Protection (561)
- Irrigation Pipeline (430)
- Irrigation Water Management (449)
- Karst Sinkhole Treatment (527)
- Nutrient Management (590)
- Pond (378)
- Prescribed Grazing (528)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Roof Runoff Structure (558)
- Sediment Basin (350)
- Silvopasture Establishment (381)
- Spring Development (574)
- Stream Crossing (578)
- Streambank and Shoreline Protection (580)
- Trails and Walkways (575)
- Tree/Shrub Establishment (612)
- Underground Outlet (620)
- Waste Separation Facility (632)
- Waste Storage Facility (313)
- Waste Transfer (634)
- Waste Treatment (629)
- Waste Treatment Lagoon (359)
- Water Well (642)
- Watering Facility (614)

Water Quality Degradation: Excessive Sediment in Surface Water

- Access Control (472)
- Access Road (560)
- Brush Management (314)
- Conservation Cover (327)
- Critical Area Planting (342)
- Diversion (362)
- Filter Strip (393)
- Firebreak (394)
- Forage and Biomass Planting (512)
- Grade Stabilization Structure (410)
- Grassed Waterway (412)
- Heavy Use Area Protection (561)

- Irrigation Pipeline (430)
- Irrigation Water Management (449)
- Karst Sinkhole Treatment (527)
- Lined Waterway or Outlet (468)
- Mulching (484)
- Pond (378)
- Prescribed Burning (338)
- Prescribed Grazing (528)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Roof Runoff Structure (558)
- Sediment Basin (350)
- Silvopasture Establishment (381)
- Spring Development (574)
- Stream Crossing (578)
- Streambank and Shoreline Protection (580)
- Structure for Water Control (587)
- Subsurface Drain (606)
- Trails and Walkways (575)
- Tree/Shrub Establishment (612)
- Tree/Shrub Site Preparation (490)
- Watering Facility (614)
- Windbreak/Shelterbelt Establishment (380)
- Water Quality Degradation: Nutrients in Groundwater
 - Access Control (472)
 - Amendments for Treatment of Ag Waste (591)
 - Animal Mortality Facility (316)
 - Composting Facility (317)
 - Conservation Cover (327)
 - Critical Area Planting (342)
 - Diversion (362)
 - Filter Strip (393)
 - Irrigation Water Management (449)
 - Karst Sinkhole Treatment (527)
 - Lined Waterway or Outlet (468)
 - Mulching (484)
 - Nutrient Management (590)
 - Pond (378)
 - Pond Sealing or Lining, Compacted Soil T (520)
 - Pond Sealing or Lining, Concrete (522)
 - Pond Sealing or Lining, Flexible Membran (521A)
 - Prescribed Burning (338)
 - Prescribed Grazing (528)
 - Riparian Forest Buffer (391)
 - Riparian Herbaceous Cover (390)
 - Roof Runoff Structure (558)
 - Sediment Basin (350)
 - Silvopasture Establishment (381)
 - Subsurface Drain (606)
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Conservation Cover (327)
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 Irrigation Water Management (449)
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