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Ranking Tool Summary

for FY2017 - Delmarva Whole System Conservation Partnership

- F

(Draft)

Description:

Land Uses:

Crop

Efficiency Score:

Scoring Multiplier: 0.900

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 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,	10

	or species of concern.	
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		Answer the following questions using the DCP_Monitored_Watershed GIS layer.	
	1	Is the predominant acreage to be enrolled within a monitored watershed?	150
2		Choose only ONE of the following three questions. Answer using the DCP_Nutrient_Loads GIS layer.	
	1	Is the predominant acreage of the tract or enrolled land within a watershed that is in the top 80% for nutrient and sediment loading/acre?	75
	2	Is the predominant acreage of the tract or enrolled land within a watershed that is in the top 70% for nutrient and sediment loading/acre?	50
	2	Is the predominant acreage of the tract or enrolled land within a watershed that is in the top 90% for nutrient and sediment loading/acre?	125
3		Choose only ONE of the following two questions. Answer using the DCP_Strongholds GIS layer.	
	1	Is the predominant acreage of the tract or enrolled land within a stronghold sub-watershed with high state importance to support high fish, amphibian, reptile and mussel biodiversity?	125
	2	Is the predominant acreage of the tract or enrolled land within a stronghold sub-watershed with moderate state importance to support high fish, amphibian, reptile and mussel biodiversity?	75
Maximum Points:			Total Points
			600

Local Issues:

Scoring Multiplier: 1.000

Questions:

Sub-heading Number	Question Number	Question	Points
1		Choose only ONE of the following three questions. Answer using the DCP_flowpath_loads GIS layer.	
	1	Does the tract or enrolled land include a concentrated flow channel in the	75

		95 percentile for nutrient and/or sediment loading?	
	2	Does the tract or enrolled land include a flow path in the 90th percentile for nutrient and/or sediment loading?	50
	3	Does the tract or enrolled land include a flow path in the 80th percentile for nutrient and/or sediment loading?	25
2		Choose only ONE of the following two questions. Answer using eFotg or Web Soil Survey	
	1	Does the predominant soil where the practice is to be applied have a High leaching potential as identified in the Maryland/ Delaware Soil Leaching Risk Assessment GIS layer? If Yes, will the planned practice reduce the risk of nutrient loss due to leaching?	75
	2	Does the predominant soil where the practice is to be applied have a Moderately High leaching potential as identified in the Maryland/ Delaware Soil Leaching Risk Assessment GIS layer? If Yes, will the planned practice reduce the risk of nutrient loss due to leaching?	50
3		Choose only ONE of the following three questions. Answer using the DCP_IEI GIS layer.	
	1	Is any part of the tract or enrolled land located in the top 75% for Index of Ecological Integrity?	100
	2	Is any part of the tract or enrolled land located in the top 50% for Index of Ecological Integrity?	50
	3	Is any part of the tract or enrolled land located in the lower 50% (rank of "0") for Index of Ecological Integrity?	25
		Maximum Points: Total Points	450

Selected Resource Concerns and Practices:

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

- Conservation Cover (327)
- Constructed Wetland (656)
- Cover Crop (340)
- Filter Strip (393)
- Nutrient Management (590)
- Restoration and Management of Rare and D (643)
- Tree/Shrub Establishment (612)

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

- Channel Bed Stabilization (584)
- Compre Nutrient Mgmt Plan - Written (102)
- Conservation Cover (327)
- Constructed Wetland (656)
- Cover Crop (340)
- Drainage Water Management (554)
- Drainage Water Management Plan - Written (130)
- Filter Strip (393)
- Fish and Wildlife Habitat Plan - Written (142)
- Grade Stabilization Structure (410)
- Grassed Waterway (412)
- Nutrient Management (590)
- Nutrient Management Plan - Written (104)
- Residue Mgmt-No-Till (329)
- Restoration and Management of Rare and D (643)
- Tree/Shrub Establishment (612)
- Wetland Creation (658)
- Wetland Enhancement (659)
- Wetland Restoration (657)
- Wetland Wildlife Habitat Management (644)

Water Quality Degradation: Nutrients in Groundwater

- Amending Soil Properties with Gypsum Pro (333)
- Conservation Cover (327)
- Constructed Wetland (656)
- Cover Crop (340)
- Denitrifying Bioreactor (605)
- Filter Strip (393)
- Grade Stabilization Structure (410)
- Nutrient Management (590)
- Restoration and Management of Rare and D (643)
- Tree/Shrub Establishment (612)
- Wetland Creation (658)
- Wetland Enhancement (659)
- Wetland Restoration (657)
- Wetland Wildlife Habitat Management (644)

Water Quality Degradation: Nutrients in Surface water

- Amending Soil Properties with Gypsum Pro (333)
- Channel Bed Stabilization (584)
- Compre Nutrient Mgmt Plan - Written (102)
- Conservation Cover (327)
- Constructed Wetland (656)
- Cover Crop (340)
- Deep Tillage (324)
- Denitrifying Bioreactor (605)
- Drainage Water Management (554)
- Drainage Water Management Plan - Written (130)
- Filter Strip (393)
- Fish and Wildlife Habitat Plan - Written (142)
- Grade Stabilization Structure (410)
- Grassed Waterway (412)
- Nutrient Management (590)
- Nutrient Management Plan - Written (104)
- Residue Mgmt-No-Till (329)
- Restoration and Management of Rare and D (643)
- Stream Habitat Improvement and Managemen (395)
- Streambank and Shoreline Protection (580)
- Structure for Water Control (587)
- Tree/Shrub Establishment (612)
- Wetland Creation (658)
- Wetland Enhancement (659)
- Wetland Restoration (657)
- Wetland Wildlife Habitat Management (644)

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