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Ranking Tool Summary for FY2016 - High Tunnel (Draft)

Description:

Welcome to the High Tunnel Ranking Tool.

Land Uses:

Crop

Efficiency Score:

Scoring Multiplier: 10.000

Optional Notes:

National Priorities:

Scoring Multiplier: 1.050

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: 0.660

Questions:

Sub-heading Number	Question Number	Question	Points
1		Answer ALL of the following criteria that apply regarding the project's impact on addressing resource concerns. Maximum points 250.	
	1	a The Schedule of Operations includes a seasonal high tunnel which will assist the producer to improve plant productivity, health and vigor.	75
	1	b The Schedule of Operations includes a seasonal high tunnel which will assist the producer to grow plants in areas where they are not typically suited or adapted to grow.	75
	1	c The Schedule of Operations includes practices or supports the use of existing practices (such as; cover crops, residue management, and residue and tillage management) which will result in a positive Soil Condition Index (SCI) score as determined by RUSLE II.	50
	1	d The Schedule of Operations includes supporting practices necessary to support a new or existing seasonal high tunnel in order to address soil erosion.	50
2		Answer ONE of the following criteria that apply regarding the projects ability to address excess nutrients and organics in surface water.	
	2	a The Schedule of Operations includes a seasonal high tunnel which will assist the producer to reduce excess nutrients and organics in surface water from a field that adjoins a designated impaired water body? (TMDL, 303d, etc.).	75
	2	b The Schedule of Operations includes a seasonal high tunnel which will assist the producer to reduce excess nutrients and organics in surface water from a field that adjoins a non-impaired water body?.	25
3		Answer ONE of the following criteria that apply regarding the projects ability to address harmful levels of pesticides in surface water.	
	3	a The Schedule of Operations includes a seasonal high tunnel which will assist the producer to reduce harmful levels of pesticides in surface water from a field that adjoins a designated impaired water body? (TMDL, 303d, etc.).	75
	3	b The Schedule of Operations includes a seasonal high tunnel which will assist the producer to reduce harmful levels of pesticides in surface water from a field that adjoins a non-impaired water body?.	25
Maximum Points: 400 Total Points			450

Local Issues:

Scoring Multiplier: 1.050

Questions:

Sub-heading Number	Question Number	Question	Points
	1	If the application is approved for funding, will this be the applicants first EQIP contract?	80
	2	Will the applicant install a moveable high tunnel?	120
	3	Has the operator developed a plan of operation or a business plan?	80
	4	Is the applicant currently using, or will install, a drip irrigation system on cropland?	120
		Maximum Points: Total Points	400

Selected Resource Concerns and Practices:

Degraded Plant Condition: Undesirable Plant Productivity and Health

- Critical Area Planting (342)
- Diversion (362)
- High Tunnel System (325)
- Irrigation Pipeline (430)
- Irrigation Storage Reservoir (436)
- Irrigation System, Microirrigation (441)
- Irrigation System, Surface and Subsurfac (443)
- Irrigation Water Management (449)
- Mulching (484)
- Nutrient Management (590)
- Pest Management (595)
- Runoff Management System (570)
- Subsurface Drain (606)
- Terrace (600)
- Underground Outlet (620)

Insufficient Water: Inefficient Use of Irrigation Water

- Diversion (362)
- High Tunnel System (325)
- Irrigation Pipeline (430)
- Irrigation Storage Reservoir (436)
- Irrigation System, Microirrigation (441)
- Irrigation System, Surface and Subsurfac (443)
- Mulching (484)
- Runoff Management System (570)

Soil Erosion: Sheet and Rill Erosion

- Critical Area Planting (342)
- Diversion (362)
- Grade Stabilization Structure (410)
- High Tunnel System (325)
- Irrigation System, Microirrigation (441)
- Mulching (484)
- Pest Management (595)
- Roof Runoff Structure (558)
- Subsurface Drain (606)
- Terrace (600)
- Underground Outlet (620)

Water Quality Degradation: Pesticides in Groundwater

- Critical Area Planting (342)
- Diversion (362)

- High Tunnel System (325)
- Irrigation System, Microirrigation (441)
- Irrigation System, Surface and Subsurfac (443)
- Irrigation Water Management (449)
- Mulching (484)
- Runoff Management System (570)
- Subsurface Drain (606)

Water Quality Degradation: Pesticides in Surface Water

- Critical Area Planting (342)
- Diversion (362)
- High Tunnel System (325)
- Irrigation System, Microirrigation (441)
- Irrigation System, Surface and Subsurfac (443)
- Irrigation Water Management (449)
- Mulching (484)
- Runoff Management System (570)
- Subsurface Drain (606)
- Terrace (600)

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