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## Ranking Tool Summary

### for FY2019 - EQIP 2019 MRBI Birds Point Alluvial (Draft)

#### Description:

EQIP 2019. This ranking tool is to be used when ranking EQIP 2019 MRBI Birds Point Alluvial applications.

#### Land Uses:

Associated Agriculture Land, Crop, Farmstead, Pasture

#### Efficiency Score:

Scoring Multiplier: 37.860

Scoring Ranges and Results Text:

High: 100 - 70	Medium: 69 - 30	Low: 29 - 0
100-70	69-30	29-0

#### Optional Notes:

#### National Priorities:

Scoring Multiplier: 1.000

Scoring Ranges and Results Text:

High: 250 - 175	Medium: 174 - 100	Low: 99 - 0
250-175	174-100	99-0

#### 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,	10

	PM10)?	
4	c. Implementing practices that reduce on-farm generated greenhouse gases such as carbon dioxide (CO <sub>2</sub> ), methane (CH <sub>4</sub> ), and nitrous oxide (N <sub>2</sub> O)?	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

Scoring Ranges and Results Text:

High: 250 - 175	Medium: 174 - 100	Low: 99 - 0
250-175	174-100	99-0

**Questions:**

Sub-heading Number	Question Number	Question	Points
	1	Is the program application to support the development of a Conservation Activity Plan (CAP)? 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	Soil Quality: Does the application include cover crops on all offered planning land units for 2 consecutive years?	50
	3	Water Quality: Does the application include a practice to establish permanent perennial vegetation strips, buffers or waterways on 2% of the offered cropland planning land units, or a minimum of 1 acre, whichever is greater?	40
	4	Nutrient Management: Does the applicant currently utilize or does the application include enhanced nutrient management (split applications of nitrogen, slow- and controlled release fertilizers, or nitrification inhibitors) or enhanced nutrient management with tissue testing (nitrogen applications guided by chlorophyll meter readings or crop canopy color sensing).	40
	5	Water Quality: Does the application include a core practice on a soil hydrologic group B or C with an average field slope 5% or greater, or a group D with an average field slope 3% or greater.	25
	6	Water Quality: Does the application include a core practice on soil hydrologic group A with 9% or less average slope or group B with 2% or less average slope.	15

7	Water Quality: The majority of contracted acres lays within a 12 digit hydrologic unit (HUC) watershed that has a a public drinking water supply reservoir, or is listed as a 303d or TMDL impaired stream with a pollutant listed for sediments, nutrients, low dissolved oxygen, or an unknown pollutant.	10
8	Water Quality: Are the offered cropland planning land units within the watershed of a PL566 Dam?	10
9	Nutrient Management: Does the applicant fall apply nutrients, and will continue to do so on the acres included in the application?	-250
10	Water Quality: Does the application include Forage and Biomass Planting (512) to convert at least 25 acres of annual cropland planning land unit acreage (or all offered planning land units if less than 25 acres) to native (CSG and/or WSG) permanent perennial vegetation?	60
11	Water Quality: Does the application include Forage and Biomass Planting (512) to convert at least 25 acres of annual cropland planning land unit acreage (or all offered planning land units if less than 25 acres) to introduced (CSG and/or WSG) permanent perennial vegetation?	50
Maximum Points: 250    Total Points		300

**Local Issues:**

Scoring Multiplier: 1.000

Scoring Ranges and Results Text:

High: 400 - 200	Medium: 199 - 100	Low: 99 - 0
400-200	199-100	99-0

Questions:

Sub-heading Number	Question Number	Question	Points
	1	Is the program application to support the development of a Conservation Activity Plan (CAP)? 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
1		Priority 1: Highest vulnerability classification (answer one of the following 2-4)	
	2	The offered planning land unit(s) experienced environmental damage from the 2011 flood, and has identified resource concerns related to the flood damage, and applicant will address at least one of those resource concerns.	400
	3	At least 25% of the offered planning land unit(s) exceeds 3% slope and the soil map unit is not classified as a Hydrologic Group A, and has an identified resource concern(s) related to surface water quality, and will implement at least one conservation practice to treat the resource concern.	400
	4	At least 50% of the offered planning land unit(s) has an erosion K factor that exceeds 0.4, and has an identified resource concern(s) related to erosion, and will implement at least one conservation practice to treat erosion.	400
2		Priority 2: Moderate vulnerability classification (answer one of the following 5-6)	
	5	At least 50% of the offered planning land unit(s) has an erosion K factor greater than 0.3, and has an identified resource concern(s) related to erosion, and will implement at least one conservation practice to treat erosion.	250
	6	The crop production system of the offered planning land unit(s) will have rice in the rotation during the contract period, and has identified surface water quality and/or quantity resource concern(s), and will implement at	250

		least one conservation practice to treat the resource concern(s).	
		Maximum Points: 400	Total Points 2100

**Selected Resource Concerns and Practices:**

Fish and Wildlife - Inadequate Habitat: Inadequate Habitat - Cover/Shelter

- Brush Management (314)
- Conservation Cover (327)
- Contour Buffer Strips (332)
- Early Successional Habitat Development/M (647)
- Field Border (386)
- Filter Strip (393)
- Firebreak (394)
- Fish and Wildlife Habitat Plan - Written (142)
- Forage & Biomass Planting (512)
- Forage Harvest Management (511)
- Forest Management Plan - Written (106)
- Forest Stand Improvement (666)
- Herbaceous Weed Control (315)
- Prescribed Burning (338)
- Prescribed Burning Plan - Written (112)
- Prescribed Grazing (528)
- Restoration and Management of Declining (643)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Structures for Wildlife (649)
- Tree/Shrub Establishment (612)
- Tree/Shrub Site Preparation (490)
- Upland Wildlife Habitat Management (645)
- Wetland Creation (658)
- Wetland Enhancement (659)
- Wetland Restoration (657)
- Windbreak/Shelterbelt Establishment (380)

Fish and Wildlife - Inadequate Habitat: Inadequate Habitat - Food

- Brush Management (314)
- Conservation Cover (327)

Fish and Wildlife - Inadequate Habitat: Inadequate Habitat - Water

- Pond (378)
- Shallow Water Management (646)
- Spring Development (574)
- Structure for Water Control (587)
- Upland Wildlife Habitat Management (645)

Insufficient Water: Inefficient Use of Irrigation Water

- Irrigation Land Leveling (464)
- Irrigation Pipeline (430)
- Irrigation System, Surface and Subsurfac (443)
- Irrigation Water Management (449)
- Pumping Plant (533)
- Sprinkler System (442)
- Water Well (642)

Soil Erosion: Classic Gully Erosion

- Critical Area Planting (342)
- Diversion (362)
- Grade Stabilization Structure (410)
- Grassed Waterway (412)
- Mulching (484)
- Spring Development (574)
- Tree/Shrub Establishment (612)
- Underground Outlet (620)
- Water and Sediment Control Basin (638)

## Soil Erosion: Ephemeral Gully Erosion

- Critical Area Planting (342)
- Diversion (362)
- Grassed Waterway (412)
- Mulching (484)
- Spring Development (574)
- Terrace (600)
- Tree/Shrub Establishment (612)
- Underground Outlet (620)
- Water and Sediment Control Basin (638)
- Water Well (642)
- Watering Facility (614)

## Soil Erosion: Sheet and Rill Erosion

- Conservation Crop Rotation (328)
- Contour Buffer Strips (332)
- Contour Farming (330)
- Cover Crop (340)
- Critical Area Planting (342)
- Forage & Biomass Planting (512)
- Mulching (484)
- Residue Mgmt, Reduced Till (345)
- Residue Mgmt-No-Till (329)
- Stripcropping (585)
- Terrace (600)
- Underground Outlet (620)

## Soil Erosion: Streambank, Shoreline, Water Conveyance Channels

- Access Control (472)
- Stream Crossing (578)

## 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)
- Pumping Plant (533)
- Roofs and Covers (367)
- Stream Crossing (578)
- Waste Facility Closure (360)
- Waste Separation Facility (632)
- Waste Storage Facility (313)
- Waste Transfer (634)

## Water Quality Degradation: Excessive Sediment in Surface Water

- Access Control (472)
- Contour Buffer Strips (332)
- Cover Crop (340)
- Fence (382)
- Filter Strip (393)
- Forest Trails and Landings (655)
- Grade Stabilization Structure (410)
- Grassed Waterway (412)
- Heavy Use Area Protection (561)
- Livestock Pipeline (516)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Stream Crossing (578)
- Structure for Water Control (587)
- Terrace (600)
- Water and Sediment Control Basin (638)
- Watering Facility (614)

## Water Quality Degradation: Nutrients in Groundwater

- Well Decommissioning (351)

## Water Quality Degradation: Nutrients in Surface water

- Drainage Water Management (554)
- Filter Strip (393)
- Nutrient Management (590)
- Nutrient Management Plan - Written (104)
- Riparian Forest Buffer (391)
- Riparian Herbaceous Cover (390)
- Stream Crossing (578)
- Structure for Water Control (587)
- Wetland Creation (658)
- Wetland Enhancement (659)
- Wetland Restoration (657)
- Water Quality Degradation: Pesticides in Surface Water
  - Drainage Water Management (554)
  - Integrated Pest Management (595)

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