

**CSP-2019-1-Renewal\_IN - Ag Land\_Crop Annual/Mixed**

**Soil Erosion**

**Sheet and Rill Erosion**

**Planning Criteria**

**Planning Criteria Met**

Permanent ground cover greater than 90% and slope less than 10%;  
OR, The water erosion rate is less than or equal to T.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

A residue and tillage management system is implemented on all crops in the rotation that minimizes detachment and transport of soil particles caused by rainfall or irrigation. The system leaves crop residue on the soil surface and excludes primary inversion tillage implements (such as moldboard plow ).

Yes  No

**Wind Erosion**

**Planning Criteria**

**Planning Criteria Met**

Permanent ground cover greater than 90% and slope less than 10%;  
OR, The wind erosion rate is less than or equal to T.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

A residue and tillage management system is implemented on all crops in the rotation that prevents detachment and transport of soil particles caused by wind. The system leaves crop residue on the soil surface and excludes primary inversion tillage implements (such as moldboard plow).

Yes  No

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**Ephemeral Gully Erosion**

**Planning Criteria**

Ephemeral gullies are not occurring; OR, Conservation practices and management activities are in place to prevent or control ephemeral gullies.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Temporary or permanent rills do not exist on the land management system; Or, All temporary or permanent rills are stabilized; AND all areas expected to have high erosion rates are stable.

**Evaluation Test Met**

Yes  No

**Classic Gully Erosion**

**Planning Criteria**

Classic gullies are not present; Or, Classic gully management is adequate to stop the progression of head cutting and widening and offsite impacts are minimized by vegetation and/or structures.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Classic Gullies are not present; Or, All classic gullies are stabilized; AND, All areas expected to have high erosion rates are stable.

**Evaluation Test Met**

Yes  No

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**Streambank, Shoreline, Water Conveyance Channels**

**Planning Criteria**

For shorelines and water conveyance channels; banks are stable or commensurate with normal geomorphological processes; AND, If bank erosion is present, it is beyond the client's control or commensurate with normal geomorphological processes; AND, For streambanks, SVAP2 bank condition element score greater than 5. If shorelines or water conveyance channels are not present, set this planning criteria to NA.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Excluding all fundamentally unstable, natural geomorphic streambanks and shorelines, all streambanks and shorelines on the land use show few signs of erosion or bank failure; AND, Each is stable and protected with natural materials. If shorelines and water conveyance channels do not exist on the land management system, set this test statement to NA.

**Evaluation Test Met**

Yes  No

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**Soil Quality Degradation**

**Organic Matter Depletion**

**Planning Criteria**

Organic matter is not depleted below tolerable levels. SCI levels are greater than 0 on all fields in the land management system.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Cover crops are included in the crop rotation on 50% or more of the fields in the land management system to maintain adequate levels of soil organic matter.

**Evaluation Test Met**

Yes  No

Tillage methods that lift/invert soil are not used. There is at least 30% residue cover on the soil surface at time of planting.

Yes  No

**Compaction**

**Planning Criteria**

Soil compaction is not a problem: AND, Activities do not cause soil compaction problems AND can be documented with prior conservation planning or other on-site evaluation methods.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

The crop rotation includes crops/cover crops with deep roots that extend through the soil profile to break up compacted layers. (see state lists)

**Evaluation Test Met**

Yes  No

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**Insufficient Water**

**Inefficient Use of Irrigation Water**

**Planning Criteria**

The irrigation system components and management result in a Farm Irrigation Rating Index greater than 60; AND, Meets applicable State in-stream flow and lake and pond water levels requirements. If the land management system is not irrigated, set this planning criteria to NA.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

An irrigation water management (IWM) plan is followed that meets the crop's needs, while maximizing irrigation water efficiency. The IWM plan schedules water application based on soil moisture monitoring and/or evapotranspiration monitoring, measures and records the amount of water used to irrigate, and the irrigation system's distribution uniformity has been evaluated and necessary changes were made. If the land management system is not irrigated, set this test statement to NA.

**Evaluation Test Met**

Yes  No

A residue and tillage management system is implemented on all crops in the rotation which keeps at least 60% of the field surface covered after planting to increase plant available moisture. If the land management system is not irrigated, set this test statement to NA.

Yes  No

**Inefficient Moisture Management**

**Planning Criteria**

Runoff and evapotranspiration levels are minimized on cropland. Soil loss levels are less than or equal to T, crop interval STIR values are less than 80, and SCI is 0 or greater.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

A residue and tillage management system is implemented on all crops in the rotation which keeps at least 60% of the field surface covered after planting to increase plant available moisture.

**Evaluation Test Met**

Yes  No

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**Water Quality Degradation**

**Pesticides in Surface Water**

**Planning Criteria**

**Planning Criteria Met**

Pesticides are stored, handled, disposed and applied to prevent runoff, spills, leaks and leaching; AND, Conservation practices and techniques are in place to minimize ground water impacts.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Pesticides are not applied or stored on this land management system; Or, Pesticides are applied using a site-specific mixture of prevention, avoidance, monitoring, and suppression (PAMS) strategies. Environmental risk screening tool are used (such as WIN-PST or similar LGU approved tool); AND, application rates and timing are compliant with the label.

Yes  No

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**Nutrients in Surface water**

**Planning Criteria**

**Planning Criteria Met**

Organic or inorganic nutrients are not applied and PLU is not grazed; OR Nutrient and amendment applications are based on soil or tissue tests and nutrient budgets for realistic yields and conservation practices and management practices are in place to minimize surface water impacts.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

The land adjacent to a stream, river, or other waterbody on the side or sides you control: - has diverse, natural plant cover typical to that along other streams within the drainage basin; - extend from the stream bank/shoreline for a distance of 35 feet; OR, (if applicable) The minimum State buffer-width requirement, whichever is greater; AND, Have few places where concentrated runoff flows through.

Yes  No

Nutrients are not applied on this land management system; OR, If nutrients are applied, a nutrient budget is used to determine all application rates, including: - Realistic yield goals, - Nutrient uptake requirements, and - Available nutrient accounting for each of the following: (a) N, P, K from representative soil tests (less than or equal to 3yrs), (b) Soil organic matter mineralization, (c) Legumes in rotation, (d) Previous applications of manure and other organic based materials, (e) Planned post-harvest residual soil test levels, (f) Available nutrient analysis for each nutrient source, and (g) Available nutrient uptake efficiencies from planned application rate, source, method, timing and placement. All state specific application setbacks are maintained for all nutrient applications.

Yes  No

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**Excess Pathogens and Chemicals from Manure, bio-solids or Compost Applications in Surface Water**

**Planning Criteria**

**Planning Criteria Met**

Potential sources of pathogens or pharmaceuticals are not applied on the land; OR, Organic materials are applied, stored, and/or handled to mitigate negative impacts to surface water sources.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Manure, Composts, or other bio-solids are not stored or applied on this land management system; OR Manure and other bio solids are applied using a nutrient budget to determine all application rates, including: - Realistic yield goals, - Nutrient uptake requirements, and - Available nutrient accounting for each of the following: (a) N, P, K from representative soil tests (less than or equal to 3yrs), (b) Soil organic matter mineralization, (c) Legumes in rotation, (d) Avoiding manure applications when soils are frozen, snow covered, or saturated, (e) Planned post-harvest residual soil test levels, (f) Available nutrient analysis for each nutrient source, and (g) Available nutrient uptake efficiencies from planned application rate, source, method, timing and placement. All state specific application setbacks are maintained for all nutrient applications. Minimum setbacks are maintained from drainage ways, wells, ditched, streams, rivers, and water bodies. If manure or other bio solids are not applied, set this test statement to NA.

Yes  No

Livestock access to stream is controlled; OR, Livestock are limited to small watering or crossing areas.

Yes  No



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**Excessive Sediment in Surface Water**

**Planning Criteria**

Upslope treatment and buffer practices address concentrated flows to water bodies; AND, The SVAP2 - bank condition greater than or equal to 5; AND, The livestock and vehicle water crossings are stable; AND, The water erosion rate is less than or equal to T; AND, Wind erosion rate is less than or equal to T.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

All temporary or permanent rills and gullies are stabilized; OR, Temporary or permanent rills and gullies do not exist.

**Evaluation Test Met**

Yes  No

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**Air Quality Impacts**

**Emissions of Ozone Precursors**

**Planning Criteria**

Operations that produce ozone precursor emissions are not present; OR, or are managed to reduce emissions. Ozone precursor producing activities may include: Engines (combustion source), Pesticide application, Burning, CAFO /manure management, or fertilization (manure/commercial).

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Pesticides are not applied; OR, an IPM plan is followed which reduces ozone precursors. IPM includes applications of pesticides, including fumigants, be applied in a way that emissions of ozone precursors are reduced; Application methods may include: spot spraying, pest/target sensing application equipment, alternative pesticide formulations, or low emission fumigation methods.

**Evaluation Test Met**

Yes  No

**Emission of Greenhouse Gases (GHGs)**

**Planning Criteria**

Activities that produce GHGs emissions are not present: OR, activities that produce GHGs emissions are managed to reduce those emissions; AND, Carbon sequestration is enhanced through reduced tillage methods or other practices. GHG producing activities that should be considered include: Fertilization (manure/commercial), Tillage methods, grazing management, and forestry practices; AND GHGs are not regulated in this planning area.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Nitrogen is not applied: OR, nitrogen is applied as close as possible to crop uptake (within 30 days prior to crop planting or greenup) at recommended application rates.

**Evaluation Test Met**

Yes  No

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**Degraded Plant Condition**

**Excessive Plant Pest Pressure**

**Planning Criteria**

Plant pest damage to plants is below economic or environmental thresholds; AND, plant pests, including noxious and invasive species are managed.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Weeds, insects, and diseases do not limit crop production.

**Evaluation Test Met**

Yes  No

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**Fish and Wildlife - Inadequate Habitat**

**Inadequate Habitat - Food**

**Planning Criteria**

The WHSI rating is greater than or equal to 0.5; AND, (when surface stream present) The SVAP2 - fish habitat complexity element score is greater than or equal to 7; AND, The SVAP2 - aquatic invertebrate habitat element score is greater than or equal to 7; OR, Conservation practices and managements are in place that meet or exceed species or guild-specific habitat model thresholds; OR, Food is available in quality and extent to support habitat requirements for the species of interest.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Unharvested grain crops are intentionally left in the field as wildlife food on an annual basis; OR, A no-till system is used that provides food for selected wildlife species.

**Evaluation Test Met**

Yes  No

**CSP-2019-1-Renewal\_IN - Ag Land\_Crop Annual/Mixed**

**Inadequate Habitat - Cover/Shelter**

**Planning Criteria**

The WHSI rating is greater than or equal to 0.5; AND, (when surface stream present) the SVAP2 - barriers to movement element score is greater than or equal to 7; AND, the SVAP2 - fish habitat complexity element score is greater than or equal to 7; AND, the SVAP2 - aquatic invertebrate habitat element score is greater than or equal to 7; OR conservation practices and management practices are in place that meet or exceed species or guild-specific habitat model thresholds; OR, habitat cover is of available quality and extent to support requirements for the species of interest.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Plant growth and cover is managed to develop and maintain habitat to help chosen wildlife species. (see State Wildlife Action Plan)

**Evaluation Test Met**

Yes  No

A no-till system is used that provides cover for wildlife. The orientation of the residue between harvest and establishment of the new crop supports wildlife cover.

Yes  No

**Inadequate Habitat - Water**

**Planning Criteria**

The WHSI rating is greater than or equal to 0.5;AND, (when surface stream present) The SVAP2 - aquatic invertebrate habitat element score is greater than or equal to 7; OR, Conservation practices and managements are in place that meet or exceed species or guild-specific habitat model thresholds; OR, Water is available in quality and extent to support habitat requirements for the species of interest.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Water for habitat is accessible and at the right depth, duration, and time of year for chosen wildlife species (See State Wildlife Action Plan)

**Evaluation Test Met**

Yes  No

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**Inadequate Habitat - Habitat Continuity (Space)**

**Planning Criteria**

**Planning Criteria Met**

The WHSI rating is greater than or equal to 0.5; AND, (when surface stream present) The SVAP2 - barriers to movement element score is greater than or equal to 7; AND, The SVAP2 - aquatic invertebrate habitat element score is greater than or equal to 7; OR, Conservation practices and managements are in place that meet or exceed species or guild-specific habitat model thresholds; OR, The connectivity of habitat components are adequate to support stable populations of target species.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Connectivity between food resources and cover and shelter is provided for the target wildlife species. (see State Wildlife Action Plan)

Yes  No

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**Inefficient Energy Use**

**Farming/Ranching Practices and Field Operations**

**Planning Criteria**

**Planning Criteria Met**

Reduced tillage systems or energy conserving implements are being used to improve energy efficiency for field operations. If irrigated, improved efficiency irrigation pumps are being used on the majority of irrigated fields.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Reduced tillage and other field operations are used to reduce field passes and overall energy consumption.

Yes  No