

**CSP-2019-1-Renewal IN - Ag Land Pasture**

**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**

Plant cover controls active erosion (shallow less than 1 foot deep rills  
and gullies) and runoff from normal rain events; AND, No litter dams  
or terracettes are present.

Yes  No

**Classic Gully Erosion**

**Planning Criteria**

**Planning Criteria Met**

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.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

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

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 within the soil is managed by means of proper rotational grazing and other grazing management practices; AND, the Pasture Condition Score (PCS) -plant cover element score is greater than or equal to 4; AND, the PCS - plant residue element score is greater than or equal to 4.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Proper soil health is evidenced by productive and desirable plants dominating the management system. There are no extensive dead or unproductive areas.

**Evaluation Test Met**

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**

There are no extensive bare spots or dead areas in the land management system beyond what would be considered acceptable "sacrifice" areas.

**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

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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

**Nutrients in Surface water**

**Planning Criteria**

**Planning Criteria Met**

Organic or inorganic nutrients are not applied and grazing unit is not adjacent to streams, ponds, or lakes and there are no confined livestock areas; OR, The Pasture Condition Score - streambank/shoreline erosion element score is greater than or equal to 4; AND, The Pasture Condition Score - livestock concentration areas element score is greater than or equal to 4; AND, Nutrients are applied and based on a soil test, tissue test or nutrient budget.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Livestock access to streams is limited to short periods of time and small areas.

Yes  No

Nutrients are not applied; OR, If nutrients are applied, they do not degrade surface water quality; AND, Water use is not limited by nutrient levels.

Yes  No

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**Nutrients in Groundwater**

**Planning Criteria**

**Planning Criteria Met**

Organic or inorganic nutrients are not applied ; OR, Nutrient and amendment applications are based on soil or tissue tests and nutrient budgets for realistic yields and conservation practices; AND, Management activities are in place to minimize ground water impacts.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Grazing management in close proximity to sinkholes does not degrade groundwater. If sinkholes are not in close proximity to this land management system, set the test statement to YES.

Yes  No

**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**

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

Yes  No

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

**Planning Criteria**

**Planning Criteria Met**

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

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Livestock use of immediate sink hole watersheds is managed to avoid addition of excess pathogens. If the land management system is not in a sinkhole watershed, set the test statement to YES.

Yes  No

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**Excessive Sediment in Surface Water**

**Planning Criteria**

**Planning Criteria Met**

Permanent ground cover greater than 90% and slope less than 10% and classic gullies are not present; OR, 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.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

The land adjacent to a stream, river, or other waterbody on the side or sides you control does: - have diverse, natural plant cover typical to that along streams in your area, - 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

Plant cover controls active erosion and runoff from normal rain events; AND, Litter dams are minimized.

Yes  No

Drainage and erosion control measures are implemented on roads, trails and landings to minimize detrimental effects of concentrated flow, erosion and sedimentation; AND, Stream crossings are restored and stabilized.

Yes  No



**CSP-2019-1-Renewal IN - Ag Land Pasture**

**Air Quality Impacts**

**Emissions of Ozone Precursors**

**Planning Criteria**

**Planning Criteria Met**

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).

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

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.

Yes  No

**Emission of Greenhouse Gases (GHGs)**

**Planning Criteria**

**Planning Criteria Met**

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.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

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.

Yes  No

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**Degraded Plant Condition**

**Undesirable Plant Productivity and Health**

**Planning Criteria**

The Pasture Condition Score is 30 or above. Plants are adapted to the site, meet production goals and do not negatively impact other resources.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Plants are perennial, adapted to the site, maintained at minimal stubble heights, productive and healthy.

**Evaluation Test Met**

Yes  No

**Inadequate Structure and Composition**

**Planning Criteria**

Plant communities contain adequate diversity, composition and structure to support desired ecological functions for the ecological site.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

The current plants provide the desired habitat structure and composition. State identified invasive plants and noxious weeds are controlled.

**Evaluation Test Met**

Yes  No

**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**

Plants growing are expected, desired, and suited to the site. Existing forbs and woody species meet state specified amounts.

**Evaluation Test Met**

Yes  No

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**Inadequate Habitat - Cover/Shelter**

**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 - 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.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

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

Yes  No

Livestock access to stream(s) is controlled; OR, livestock access is limited to small watering or crossing areas

Yes  No

Haying operations include at least two of the following activities: (a) harvest occurs from the center of the field outward to provide better escape cover, (b) flushing bars are mounted on harvesting equipment, (c) mowing occurs during daylight hours, or (d) mowing speeds are reduced during primary nesting season.

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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**Livestock Production Limitation**

**Inadequate Feed and forage**

**Planning Criteria**

**Planning Criteria Met**

Livestock forage, roughage, and supplemental nutritional requirements are met.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

The existing forage quantity and quality are expected to meet the livestock needs and goals.

Yes  No

**Inadequate Water**

**Planning Criteria**

**Planning Criteria Met**

Water of acceptable quality and quantity is adequately distributed to meet animal needs.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

The livestock have enough drinking water of good quality. If livestock do not use this land management system, set the test statement to NA.

Yes  No