



# Conservation Activity Evaluation Tool Pool Area 5

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**CSP-2019-1 NE - Pool 5 Associated Ag Land**

**Soil Erosion**

**Sheet and Rill Erosion**

**Planning Criteria**

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

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

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.

**Evaluation Test Met**

Yes  No

**Wind Erosion**

**Planning Criteria**

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

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

The areas integrated with trees are covered with leaves, needles, fine woody debris, rocks, and/or herbaceous vegetation that protects the soil on more than 90% of the area.

**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

**CSP-2019-1 NE - Pool 5 Associated Ag Land**

**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 > 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

**CSP-2019-1 NE - Pool 5 Associated Ag Land**

**Soil Quality Degradation**

**Organic Matter Depletion**

**Planning Criteria**

Organic matter within the soil does not cause resource concerns or resource management issues. Determined and documented by on-site evaluation methods.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

There are no areas of extensive bare ground, or largely unvegetated areas. Vegetation and organic matter are managed appropriately.

**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**

Soil compaction is limited to roads, trails, and landings; AND, Roads, trails, and landings are properly maintained as to not cause associated resource concerns.

**Evaluation Test Met**

Yes  No

**CSP-2019-1 NE - Pool 5 Associated Ag Land**

**Excess Water**

**Runoff and Flooding and Ponding**

**Planning Criteria**

**Planning Criteria Met**

Runoff, flooding, and ponding is managed to minimize the impact on conservation measures and/or sensitive habitat.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Runoff, flooding, and ponding is managed to minimize the impact on conservation measures and/or sensitive habitat.

Yes  No

**CSP-2019-1 NE - Pool 5 Associated Ag Land**

**Water Quality Degradation**

**Nutrients in Surface Water**

**Planning Criteria**

**Planning Criteria Met**

Nutrient and amendment applications are based on soil or tissue tests and nutrient budgets for realistic yields; AND, conservation practices and managements are in place to minimize ground water impacts.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

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

Yes  No

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

**CSP-2019-1 NE - Pool 5 Associated Ag Land**

**Excessive Sediment in Surface Water**

**Planning Criteria**

**Planning Criteria Met**

There are no untreated sources of erosion and streams or shoreline are not on or adjacent to site; OR, Upslope treatment and buffer practices address concentrated flows to water bodies; AND, Heavy use areas are stable; AND, The SVAP2 - bank condition is  $\geq 5$ .

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

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

Yes  No

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

**Elevated Water Temperature**

**Planning Criteria**

**Planning Criteria Met**

Water courses on or adjacent to the site are not designated by a State Agency as a temperature impairment; OR, The SVAP2 - riparian area quality element score is  $\geq 5$ ; AND, The SVAP2 - riparian area quantity element score is  $\geq 5$ ; AND, The SVAP2 - canopy cover element score is  $\geq 6$ ; OR, Existing conservation practices are in place to address water temperature. If water courses are not present, set this planning criteria to NA.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Surface water temperatures do not limit use for fish, wildlife, invertebrates, or other intended purposes. If waterbodies are not present on this land management system, set the test statement to NA.

Yes  No

**CSP-2019-1 NE - Pool 5 Associated Ag Land**

**Air Quality Impacts**

**Emissions of Particulate Matter (PM) and PM Precursors**

**Planning Criteria**

Management activities do not contribute to agricultural source particulate matter (PM) or PM precursor emissions; AND, documented episodes or complaints of emissions of PM (dust, smoke, exhaust, etc.), or chemical drift have not occurred. PM producing activity examples are: Prescribed Burn is conducted, Travel ways unpaved or untreated with binding agents, Engines (combustion source), Tillage, Pesticides are applied, Fertilization (manure/commercial), CAFO/manure management.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Dust is controlled on all non-vegetated, unpaved travel ways. If non-vegetated or unpaved travel ways are not used or planned, set this test statement to YES.

**Evaluation Test Met**

Yes  No



**CSP-2019-1 NE - Pool 5 Associated Ag Land**

**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**

If prescribed burning is used a prescribed burning plan is followed that includes all applicable smoke management practices.

Yes  No

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

**Objectionable Odors**

**Planning Criteria**

**Planning Criteria Met**

Activities such as pesticide or manure application are managed to reduce objectionable odors; AND, Odor sources are not regulated in this planning area; AND, Documented episodes or complaints of odor nuisance have not occurred.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Manure is not applied on this land management system; OR, manure is immediately incorporated; OR, manure is only applied when wind direction is away from human occupied areas.

Yes  No

**CSP-2019-1 NE - Pool 5 Associated Ag Land**

**Degraded Plant Condition**

**Undesirable Plant Productivity and Health**

**Planning Criteria**

Plants are adapted to the site, meet production goals, and do not negatively impact other resources; AND, Plant damage from wind erosion is below crop damage tolerance levels.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Plant yield, vigor, and quality are as expected.

**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**

Invasive and noxious weeds are controlled or are not present.

**Evaluation Test Met**

Yes  No

**CSP-2019-1 NE - Pool 5 Associated Ag Land**

**Wildfire Hazard, Excessive Biomass Accumulation**

**Planning Criteria**

**Planning Criteria Met**

Wildfire hazards is not a concern; OR, Fuel loads and fuel ladders are managed to provide defensible space.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Wildfire risk to sensitive sites are controlled by treatment, removal or modification of vegetation, debris and detritus in a strip or area.

Yes  No

**CSP-2019-1 NE - Pool 5 Associated Ag Land**

**Fish and Wildlife - Inadequate Habitat**

**Inadequate Habitat - Food**

**Planning Criteria**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) The SVAP2 - fish habitat complexity element score is  $\geq 7$ ; AND, The SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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

**CSP-2019-1 NE - Pool 5 Associated Ag Land**

**Inadequate Habitat - Cover/Shelter**

**Planning Criteria**

**Planning Criteria Met**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) the SVAP2 - barriers to movement element score is  $\geq 7$ ; AND, the SVAP2 - fish habitat complexity element score is  $\geq 7$ ; AND, the SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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**

The pond/lake, which supports a natural or planted fish population, is managed: -to exclude livestock, -to control nuisance species and undesirable aquatic vegetation controlled, -to complies with state and local regulations when stocking the pond, AND -use of a buffer zone of diverse, natural plant cover at least 35 feet wide.

Yes  No

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

Yes  No

Designated areas are planted as food and habitat for pollinators/beneficial insects. For example, planted to nectar and pollen producing plants and protected from disruption--chemical, biological, or mechanical.

Yes  No

The stream(s) have: - a natural, unaltered configuration, with minimal channel straightening, dredging, or bank alteration by armoring with rip-rap or other non-natural materials, - stable banks with limited erosion or bank failure; AND, human uses and/or grazing levels that do not negatively impact bank condition. If streams are not present on the land management system, set the test statement to NA.

Yes  No

**CSP-2019-1 NE - Pool 5 Associated Ag Land**

**Inadequate Habitat - Water**

**Planning Criteria**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) The SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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**

Developments in the flood plain, stream water withdrawals, flow augmentation, or water control structures may be present, but do not significantly alter the natural flow regime.

**Evaluation Test Met**

Yes  No

**CSP-2019-1 NE - Pool 5 Associated Ag Land**

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

**Planning Criteria**

**Planning Criteria Met**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) The SVAP2 - barriers to movement element score is  $\geq 7$ ; AND, The SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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**

Existing fences allow wildlife movement without harm.

Yes  No

In-stream structures (i.e. dam, diversion structure, bridge, culvert, low-water stream crossing, etc.) allow for the upstream and downstream movement of fish and other aquatic animals throughout most of the year.

Yes  No

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; AND, Extend from the stream bank or shoreline for a distance of 35 feet; OR, (if applicable) The minimum State buffer-width requirement, whichever is greater.

Yes  No

**CSP-2019-1 NE - Pool 5 Associated Ag Land**

**Inefficient Energy Use**

**Equipment and Facilities**

**Planning Criteria**

**Planning Criteria Met**

If equipment, motors, pumps, etc. are used or located on Associated Agricultural Land (AAL), are they commercially available improved efficiency models or have they received manufacturer approved upgrades.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Energy conserving implements are used for all or some field operations.

Yes  No

Pumps, motors, wells, etc. located on the land management system are improved efficiency models.

Yes  No

**Farming/Ranching Practices and Field Operations**

**Planning Criteria**

**Planning Criteria Met**

Equipment or implements used on Associated Agricultural Land (AAL) for agricultural uses are improved efficiency models.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Pumps, motors, wells, etc. located on the land management system are improved efficiency models

Yes  No



**CSP-2019-1\_NE - Pool 5\_Crop Annual/Mixed**

**Soil Erosion**

**Sheet and Rill Erosion**

**Planning Criteria**

**Planning Criteria Met**

Permanent ground cover > 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

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All hayed acres maintain at least 75% cover all year.

Yes  No

**Wind Erosion**

**Planning Criteria**

**Planning Criteria Met**

Permanent ground cover >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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All hayed acres maintain at least 75% cover all year.

Yes  No

**CSP-2019-1 NE - Pool 5 Crop Annual/Mixed**

**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

**CSP-2019-1 NE - Pool 5 Crop Annual/Mixed**

**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 > 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

**CSP-2019-1 NE - Pool 5 Crop Annual/Mixed**

**Soil Quality Degradation**

**Organic Matter Depletion**

**Planning Criteria**

**Planning Criteria Met**

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

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

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**

**Planning Criteria Met**

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.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Field operations are restricted or do not take place on wet soils susceptible to compaction.

Yes  No

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

Yes  No

Wheel/track traffic is limited to less than 50% of the soil surface. The equipment's tires/tracks are no wider than 26 inches.

Yes  No

**CSP-2019-1\_NE - Pool 5\_Crop Annual/Mixed**

**Excess Water**

**Runoff and Flooding and Ponding**

**Planning Criteria**

**Planning Criteria Met**

Excess water is managed to minimize the impact on conservation measures and/or crop production.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Measures are applied such as residue management, grassed waterways, terraces, diversions, or filter strips to reduce excessive runoff; OR, If flooding is a concern crops and field activities are managed within the seasonal flooding periods; OR, Where ponding is a concern land leveling or shallow surface drains prevent ponding of water that limits crop production.

Yes  No

**CSP-2019-1\_NE - Pool 5\_Crop Annual/Mixed**

**Insufficient Water**

**Inefficient Use of Irrigation Water**

**Planning Criteria**

**Planning Criteria Met**

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

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

A reduced/mulch till or no-till system is implemented which leaves a minimum of 30% ground crop residue on the soil surface after planting. If the land management system is not irrigated, set this test statement to NA.

Yes  No

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, or equipment on this land management system is not used to irrigate, set this test statement to NA.

Yes  No

**CSP-2019-1 NE - Pool 5 Crop Annual/Mixed**

**Inefficient Moisture Management**

**Planning Criteria**

**Planning Criteria Met**

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.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

A reduced/mulch till or no-till system is implemented which leaves a minimum of 30% ground crop residue on the soil surface after planting.

Yes  No

Cover crops are terminated based on RMA guidelines. If cover crops are not incorporated into the rotation, set this test statement to NA.

Yes  No

Crop types and crop sequences are carefully chosen. The local climate conditions and a water balance budget are used in the decision making process. Crop rotation includes at least 2 crop types in rotation.

Yes  No

**CSP-2019-1 NE - Pool 5 Crop Annual/Mixed**

**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

**Pesticides in Ground 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; AND, 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



**CSP-2019-1 NE - Pool 5 Crop Annual/Mixed**

**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**

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

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

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

**CSP-2019-1 NE - Pool 5 Crop Annual/Mixed****Nutrients in Ground Water****Planning Criteria**

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 activities are in place to minimize ground water impacts.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

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.

**Evaluation Test Met**

Yes  No

**CSP-2019-1 NE - Pool 5 Crop Annual/Mixed**

**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**

Filter strips that are at least 30 feet wide are established and maintained on all areas in the land management system where filter strips are applicable.

Yes  No

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

Yes  No

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

**CSP-2019-1 NE - Pool 5 Crop Annual/Mixed**

**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**

Manure and 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.

Yes  No

**CSP-2019-1 NE - Pool 5 Crop Annual/Mixed**

**Excessive Sediment in Surface Water**

**Planning Criteria**

Upslope treatment and buffer practices address concentrated flows to water bodies; AND, The SVAP2 - bank condition  $\geq 5$ ; 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 hayed acres maintain at least 75% cover all year.

**Evaluation Test Met**

Yes  No

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

Yes  No

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

**Elevated Water Temperature**

**Planning Criteria**

Water courses on or adjacent to the site are not designated by a State Agency as a temperature impairment; OR, The SVAP2 - riparian area quality element score is  $\geq 5$ ; AND, The SVAP2 - riparian area quantity element score is  $\geq 5$ ; AND, The SVAP2 - canopy cover element score is  $\geq 6$ ; OR, Existing conservation practices are in place to address water temperature. If water courses are not present, set this planning criteria to NA.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Surface water temperatures do not limit use for fish, wildlife, invertebrates, or other intended purposes. If waterbodies are not present on this land management system, set the test statement to NA.

**Evaluation Test Met**

Yes  No

**CSP-2019-1\_NE - Pool 5\_Crop Annual/Mixed**

**Air Quality Impacts**

**Emissions of Particulate Matter (PM) and PM Precursors**

**Planning Criteria**

Management activities do not contribute to agricultural source particulate matter (PM) or PM precursor emissions; AND, documented episodes or complaints of emissions of PM (dust, smoke, exhaust, etc.), or chemical drift have not occurred. PM producing activity examples are: Prescribed Burn is conducted, Travel ways unpaved or untreated with binding agents, Engines (combustion source), Tillage, Pesticides are applied, Fertilization (manure/commercial), CAFO/manure management.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Field operations and activities are managed to minimize particulate emissions on the farm (i.e. multi-operation field tools, precision guidance systems, Prescribed Burn plans are implemented, and treatment/management of all non-vegetated, unpaved travel ways.)

**Evaluation Test Met**

Yes  No

**CSP-2019-1 NE - Pool 5 Crop Annual/Mixed**

**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

Applied manure is injected or otherwise incorporated into the soil surface. If manure is not applied, set this test statement to NA.

Yes  No

Nitrogen stabilizers are used when any nitrogen is applied. If nitrogen is not applied, set this test statement to NA.

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

**CSP-2019-1 NE - Pool 5 Crop Annual/Mixed**

**Objectionable Odors**

**Planning Criteria**

Activities such as pesticide or manure application are managed to reduce objectionable odors; AND, Odor sources are not regulated in this planning area; AND, Documented episodes or complaints of odor nuisance have not occurred.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Manure is not applied on this land management system; OR, manure is immediately incorporated; OR, manure is only applied when wind direction is away from human occupied areas.

**Evaluation Test Met**

Yes  No



**CSP-2019-1\_NE - Pool 5\_Crop Annual/Mixed**

**Degraded Plant Condition**

**Undesirable Plant Productivity and Health**

**Planning Criteria**

Plants are adapted to the site, meet production goals, and do not negatively impact other resources; AND, Plant damage from wind erosion is below crop damage tolerance levels.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Plants and crops are adapted to the soil and site conditions; and, plants produce average yield levels for the county in typical years.

**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

Invasive and noxious weeds are controlled or are not present.

Yes  No

**CSP-2019-1 NE - Pool 5 Crop Annual/Mixed**

**Fish and Wildlife - Inadequate Habitat**

**Inadequate Habitat - Food**

**Planning Criteria**

**Planning Criteria Met**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) The SVAP2 - fish habitat complexity element score is  $\geq 7$ ; AND, The SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Designated areas are planted as food and habitat for pollinators/beneficial insects; AND, Protected from disruption. For example, planted to nectar and pollen producing plants and protected from disruption - chemical, biological, or mechanical.

Yes  No

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.

Yes  No

**CSP-2019-1 NE - Pool 5 Crop Annual/Mixed**

**Inadequate Habitat - Cover/Shelter**

**Planning Criteria**

**Planning Criteria Met**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) the SVAP2 - barriers to movement element score is  $\geq 7$ ; AND, the SVAP2 - fish habitat complexity element score is  $\geq 7$ ; AND, the SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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**

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

Designated areas are planted as food and habitat for pollinators/beneficial insects. For example, planted to nectar and pollen producing plants and protected from disruption--chemical, biological, or mechanical.

Yes  No

The stream(s) have: - a natural, unaltered configuration, with minimal channel straightening, dredging, or bank alteration by armoring with rip-rap or other non-natural materials, - stable banks with limited erosion or bank failure; AND, human uses and/or grazing levels that do not negatively impact bank condition. If streams are not present on the land management system, set the test statement to NA.

Yes  No

The pond/lake, which supports a natural or planted fish population, is managed: -to exclude livestock, -to control nuisance species and undesirable aquatic vegetation controlled, -to complies with state and local regulations when stocking the pond, AND -use of a buffer zone of diverse, natural plant cover at least 35 feet wide.

Yes  No

Established field borders are kept as wildlife cover and as pollinator/beneficial insect habitat.

Yes  No

**CSP-2019-1\_NE - Pool 5\_Crop Annual/Mixed**

**Inadequate Habitat - Water**

**Planning Criteria**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) The SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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**

Developments in the flood plain, stream water withdrawals, flow augmentation, or water control structures may be present, but do not significantly alter the natural flow regime.

**Evaluation Test Met**

Yes  No

**CSP-2019-1 NE - Pool 5 Crop Annual/Mixed**

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

**Planning Criteria**

**Planning Criteria Met**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) The SVAP2 - barriers to movement element score is  $\geq 7$ ; AND, The SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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**

Designated areas are planted as habitat for pollinators and beneficial insects. Non-cropped area protected from disruption during nesting and foraging periods--chemical, biological, or mechanical.

Yes  No

Established field borders are kept as wildlife cover and as pollinator and beneficial insect habitat.

Yes  No

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; AND, Extend from the stream bank or shoreline for a distance of 35 feet; OR, (if applicable) The minimum State buffer-width requirement, whichever is greater.

Yes  No

In-stream structures (i.e. dam, diversion structure, bridge, culvert, low-water stream crossing, etc.) allow for the upstream and downstream movement of fish and other aquatic animals throughout most of the year.

Yes  No

**CSP-2019-1\_NE - Pool 5\_Crop Annual/Mixed**

**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 current crop rotation provides ample feed and/or forages to support the livestock on the farm. Soil erosion and compaction are managed to reduce negative impacts. Set this test statement to NA if the land management system is not used for livestock production.

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

**CSP-2019-1\_NE - Pool 5\_Crop Annual/Mixed**

**Inefficient Energy Use**

**Equipment and Facilities**

**Planning Criteria**

**Planning Criteria Met**

On-site renewable energy and/or energy conserving implements have been implemented to improve energy efficiency for field operations.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Energy conserving implements are used for all or some field operations.

Yes  No

Pumps, motors, wells, etc. located on the land management system are improved efficiency models.

Yes  No

**CSP-2019-1 NE - Pool 5 Crop Annual/Mixed**

**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**

Pumps, motors, wells, etc. located on the land management system are improved efficiency models

Yes  No

Nutrients are not applied; 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

Irrigation water is being managed to maintain a balance of soil moisture not to exceed Field Capacity or get below wilting point (unless water quantity is a limitation). Methods include: soil moisture monitoring with sensors, evapotranspiration monitoring, or other checkbook type methods. If the land management system is not irrigated, set this test statement to NA.

Yes  No

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

Yes  No

Improved efficiency irrigation pumps and motors are used for more than 50% of irrigation water applications. If the land management system is not irrigated, set this test statement to NA.

Yes  No



**CSP-2019-1\_NE - Pool 5\_Crop Perennial**

**Soil Erosion**

**Sheet and Rill Erosion**

**Planning Criteria**

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

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

All hayed acres maintain at least 75% cover all year.

**Evaluation Test Met**

Yes  No

**Wind Erosion**

**Planning Criteria**

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

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

All hayed acres maintain at least 75% cover all year.

**Evaluation Test Met**

Yes  No

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Orchard or vineyard soil surfaces are covered by protective plants during critical erosion periods. (state provides critical erosion period list; may be different within different regions of the same state)

Yes  No

**CSP-2019-1\_NE - Pool 5\_Crop Perennial**

**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

**CSP-2019-1 NE - Pool 5 Crop Perennial**

**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 > 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

**CSP-2019-1\_NE - Pool 5\_Crop Perennial**

**Soil Quality Degradation**

**Organic Matter Depletion**

**Planning Criteria**

**Planning Criteria Met**

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

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

All hayed acres maintain at least 60% cover all year.

Yes  No

Orchard or vineyard soil surface layer is covered by protective plants for the majority of the year.

Yes  No

**Compaction**

**Planning Criteria**

**Planning Criteria Met**

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.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Field operations are restricted or do not take place on wet soils susceptible to compaction.

Yes  No

**CSP-2019-1\_NE - Pool 5\_Crop Perennial**

**Excess Water**

**Runoff and Flooding and Ponding**

**Planning Criteria**

**Planning Criteria Met**

Excess water is managed to minimize the impact on conservation measures and/or crop production.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Measures are applied such as residue management, grassed waterways, terraces, diversions, or filter strips to reduce excessive runoff; OR, If flooding is a concern crops and field activities are managed within the seasonal flooding periods; OR, Where ponding is a concern land leveling or shallow surface drains prevent ponding of water that limits crop production.

Yes  No

**Drifted Snow**

**Planning Criteria**

**Planning Criteria Met**

Excess water resulting from drifted snow is managed to prevent significant impacts to conservation measures and/or crop production. If drifted snow is not a concern, set this planning criteria to NA.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Measures are applied to avoid snow drifts on crops that may be harmed. If drifted snow is not a concern, set this test statement to NA.

Yes  No

**CSP-2019-1\_NE - Pool 5\_Crop Perennial**

**Insufficient Water**

**Inefficient Use of Irrigation Water**

**Planning Criteria**

The irrigation system components and management result in a Farm Irrigation Rating Index > 60; AND, Meets applicable State in-stream flow and lake and pond water levels requirements. If the land management system is not irrigated, or equipment on this land management system is not used to irrigate, 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, or equipment on this land management system is not used to irrigate, set this test statement to NA.

**Evaluation Test Met**

Yes  No

**CSP-2019-1\_NE - Pool 5\_Crop Perennial**

**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

**Pesticides in Ground 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; AND, 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

**CSP-2019-1\_NE - Pool 5\_Crop Perennial**

**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**

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

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



**CSP-2019-1\_NE - Pool 5\_Crop Perennial**

**Nutrients in Ground Water**

**Planning Criteria**

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 activities are in place to minimize ground water impacts.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

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.

**Evaluation Test Met**

Yes  No

**CSP-2019-1 NE - Pool 5 Crop Perennial**

**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

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

**CSP-2019-1 NE - Pool 5 Crop Perennial**

**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**

Manure and 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.

Yes  No

**CSP-2019-1 NE - Pool 5 Crop Perennial**

**Excessive Sediment in Surface Water**

**Planning Criteria**

Permanent ground cover > 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  $\geq 5$ ; 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 hayed acres maintain at least 75% cover all year.

**Evaluation Test Met**

Yes  No

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

Yes  No

**Elevated Water Temperature**

**Planning Criteria**

Water courses on or adjacent to the site are not designated by a State Agency as a temperature impairment; OR, The SVAP2 - riparian area quality element score is  $\geq 5$ ; AND, The SVAP2 - riparian area quantity element score is  $\geq 5$ ; AND, The SVAP2 - canopy cover element score is  $\geq 6$ ; OR, Existing conservation practices are in place to address water temperature. If water courses are not present, set this planning criteria to NA.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Surface water temperatures do not limit use for fish, wildlife, invertebrates, or other intended purposes. If waterbodies are not present on this land management system, set the test statement to NA.

**Evaluation Test Met**

Yes  No

**CSP-2019-1\_NE - Pool 5\_Crop Perennial**

**Air Quality Impacts**

**Emissions of Particulate Matter (PM) and PM Precursors**

**Planning Criteria**

Management activities do not contribute to agricultural source particulate matter (PM) or PM precursor emissions; AND, documented episodes or complaints of emissions of PM (dust, smoke, exhaust, etc.), or chemical drift have not occurred. PM producing activity examples are: Prescribed Burn is conducted, Travel ways unpaved or untreated with binding agents, Engines (combustion source), Tillage, Pesticides are applied, Fertilization (manure/commercial), CAFO/manure management.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Field operations and activities are managed to minimize particulate emissions on the farm (i.e. multi-operation field tools, precision guidance systems, Prescribed Burn plans are implemented, and treatment/management of all non-vegetated, unpaved travel ways.)

**Evaluation Test Met**

Yes  No

**CSP-2019-1 NE - Pool 5 Crop Perennial**

**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**

Nitrogen stabilizers are used when any nitrogen is applied. If nitrogen is not applied, set this test statement to NA.

Yes  No

If prescribed burning is used a prescribed burning plan is followed that includes all applicable smoke management practices.

Yes  No

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

**CSP-2019-1\_NE - Pool 5\_Crop Perennial**

**Objectionable Odors**

**Planning Criteria**

**Planning Criteria Met**

Activities such as pesticide or manure application are managed to reduce objectionable odors; AND, Odor sources are not regulated in this planning area; AND, Documented episodes or complaints of odor nuisance have not occurred.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Manure is not applied on this land management system; OR, manure is immediately incorporated; OR, manure is only applied when wind direction is away from human occupied areas.

Yes  No

Nutrients are not applied; OR, A NMP is followed which protects air quality by reducing odors and nitrogen emissions (ammonia, oxides of nitrogen).

Yes  No

**CSP-2019-1\_NE - Pool 5\_Crop Perennial**

**Degraded Plant Condition**

**Undesirable Plant Productivity and Health**

**Planning Criteria**

Plants are adapted to the site, meet production goals, and do not negatively impact other resources; AND, Plant damage from wind erosion is below crop damage tolerance levels.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Plants and crops are adapted to the soil and site conditions; and, plants produce average yield levels for the county in typical years.

**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



**CSP-2019-1\_NE - Pool 5\_Crop Perennial**

**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**

Invasive and noxious weeds are controlled or are not present.

**Evaluation Test Met**

Yes  No

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

Yes  No

**Wildfire Hazard, Excessive Biomass Accumulation**

**Planning Criteria**

Wildfire hazards is not a concern; OR, Fuel loads and fuel ladders are managed to provide defensible space.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Fire is not a typical hazard for the crop; OR, Fire protection measures such as firebreaks or activities to reduce the fuel loads around or within the crop fields are employed.

**Evaluation Test Met**

Yes  No

**CSP-2019-1\_NE - Pool 5\_Crop Perennial**

**Fish and Wildlife - Inadequate Habitat**

**Inadequate Habitat - Food**

**Planning Criteria**

**Planning Criteria Met**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) The SVAP2 - fish habitat complexity element score is  $\geq 7$ ; AND, The SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Designated areas are planted as food and habitat for pollinators/beneficial insects; AND, Protected from disruption. For example, planted to nectar and pollen producing plants and protected from disruption - chemical, biological, or mechanical.

Yes  No

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

Yes  No

**CSP-2019-1\_NE - Pool 5\_Crop Perennial**

**Inadequate Habitat - Cover/Shelter**

**Planning Criteria**

**Planning Criteria Met**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) the SVAP2 - barriers to movement element score is  $\geq 7$ ; AND, the SVAP2 - fish habitat complexity element score is  $\geq 7$ ; AND, the SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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**

Designated areas are planted as food and habitat for pollinators/beneficial insects. For example, planted to nectar and pollen producing plants and protected from disruption--chemical, biological, or mechanical.

Yes  No

The stream(s) have: - a natural, unaltered configuration, with minimal channel straightening, dredging, or bank alteration by armoring with rip-rap or other non-natural materials, - stable banks with limited erosion or bank failure; AND, human uses and/or grazing levels that do not negatively impact bank condition. If streams are not present on the land management system, set the test statement to NA.

Yes  No

The pond/lake, which supports a natural or planted fish population, is managed: -to exclude livestock, -to control nuisance species and undesirable aquatic vegetation controlled, -to complies with state and local regulations when stocking the pond, AND -use of a buffer zone of diverse, natural plant cover at least 35 feet wide.

Yes  No

Haying/Grazing heights are maintained at a minimum of 6 inches average over winter for mid/tall grass plant communities; AND, 4 inches average over winter for shortgrass plant communities.

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

Established field borders are kept as wildlife cover and as pollinator/beneficial insect habitat.

Yes  No

**CSP-2019-1\_NE - Pool 5\_Crop Perennial**

**Inadequate Habitat - Water**

**Planning Criteria**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) The SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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**

Developments in the flood plain, stream water withdrawals, flow augmentation, or water control structures may be present, but do not significantly alter the natural flow regime.

**Evaluation Test Met**

Yes  No

**CSP-2019-1\_NE - Pool 5\_Crop Perennial**

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

**Planning Criteria**

**Planning Criteria Met**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) The SVAP2 - barriers to movement element score is  $\geq 7$ ; AND, The SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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**

In-stream structures (i.e. dam, diversion structure, bridge, culvert, low-water stream crossing, etc.) allow for the upstream and downstream movement of fish and other aquatic animals throughout most of the year.

Yes  No

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; AND, Extend from the stream bank or shoreline for a distance of 35 feet; OR, (if applicable) The minimum State buffer-width requirement, whichever is greater.

Yes  No

Established field borders are kept as wildlife cover and as pollinator and beneficial insect habitat.

Yes  No

Designated areas are planted as habitat for pollinators and beneficial insects. Non-cropped area protected from disruption during nesting and foraging periods--chemical, biological, or mechanical.

Yes  No

**CSP-2019-1\_NE - Pool 5\_Crop Perennial**

**Livestock Production Limitation**

**Inadequate Shelter**

**Planning Criteria**

Artificial or natural shelters meet animal health needs.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Adequate shelter is provided to meet the needs of the livestock throughout the period the land management system (LMS) is utilized by livestock. If livestock do not use this LMS, set the test statement to NA.

**Evaluation Test Met**

Yes  No

**Inadequate Feed and Forage**

**Planning Criteria**

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

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

The current crop rotation provides ample feed and/or forages to support the livestock on the farm. Soil erosion and compaction are managed to reduce negative impacts. Set this test statement to NA if the land management system is not used for livestock production.

**Evaluation Test Met**

Yes  No

**CSP-2019-1\_NE - Pool 5\_Crop Perennial**

**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

**CSP-2019-1\_NE - Pool 5\_Crop Perennial**

**Inefficient Energy Use**

**Equipment and Facilities**

**Planning Criteria**

**Planning Criteria Met**

On-site renewable energy and/or energy conserving implements have been implemented to improve energy efficiency for field operations.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Pumps, motors, wells, etc. located on the land management system are improved efficiency models.

Yes  No

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Energy conserving implements are used for all or some field operations.

Yes  No



**CSP-2019-1 NE - Pool 5 Crop Perennial**

**Farming/Ranching Practices and Field Operations**

**Planning Criteria**

**Planning Criteria Met**

On-farm renewable energy and/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**

Improved efficiency irrigation pumps and motors are used for more than 50% of irrigation water applications. If the land management system is not irrigated, set this test statement to NA.

Yes  No

Irrigation water is being managed to maintain a balance of soil moisture not to exceed Field Capacity or get below wilting point (unless water quantity is a limitation). Methods include: soil moisture monitoring with sensors, evapotranspiration monitoring, or other checkbook type methods. If the land management system is not irrigated, set this test statement to NA.

Yes  No

Nutrients are not applied; 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

Pumps, motors, wells, etc. located on the land management system are improved efficiency models

Yes  No

**CSP-2019-1\_NE - Pool 5\_Farmstead**

**Soil Erosion**

**Sheet and Rill Erosion**

**Planning Criteria**

**Planning Criteria Met**

Permanent ground cover > 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**

All non-traffic areas are vegetated.

Yes  No

All temporary or permanent rills and gullies are stabilized. All areas expected to have high erosion rates are stable.

Yes  No

**Wind Erosion**

**Planning Criteria**

**Planning Criteria Met**

Permanent ground cover >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**

All non-traffic areas are vegetated.

Yes  No

All temporary or permanent rills and gullies are stabilized. All areas expected to have high erosion rates are stable.

Yes  No

**CSP-2019-1\_NE - Pool 5\_Farmstead**

**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

Water runoff from hard surfaces, such as building roofs, is controlled to the point that it does not cause erosion or large streams of water.

Yes  No

**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 > 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

**CSP-2019-1\_NE - Pool 5\_Farmstead**

**Soil Quality Degradation**

**Organic Matter Depletion**

**Planning Criteria**

Organic matter within the soil does not cause resource concerns or resource management issues. Determined and documented by on-site evaluation methods.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

There are no areas of extensive bare ground, or largely unvegetated areas. Vegetation and organic matter are managed appropriately.

**Evaluation Test Met**

Yes  No

**CSP-2019-1\_NE - Pool 5\_Farmstead**

**Excess Water**

**Runoff and Flooding and Ponding**

**Planning Criteria**

**Planning Criteria Met**

Runoff, flooding, and ponding is managed to minimize the impact on conservation measures and/or farmstead areas.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Water runoff from hard surfaces, such as building roofs, is controlled to the point that it does not cause damaging runoff, flooding or ponding.

Yes  No

**CSP-2019-1\_NE - Pool 5\_Farmstead**

**Water Quality Degradation**

**Nutrients in Ground water**

**Planning Criteria**

**Planning Criteria Met**

Liquid manure is not stored; OR, Liquid manure storages have a liner to reduce seepage to groundwater sources.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Liquid manure is not stored; OR, liquid manure storages have a liner to reduce seepage to groundwater sources.

Yes  No

**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 stored, handled, and disposed to prevent runoff, spills, leaks and leaching.

Yes  No

**CSP-2019-1\_NE - Pool 5\_Farmstead**

**Pesticides in Ground Water**

**Planning Criteria**

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.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

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.

**Evaluation Test Met**

Yes  No

**Nutrients in Surface Water**

**Planning Criteria**

Organic or inorganic nutrients are not applied and AFO/CAFO is not present; OR, Nutrient and amendment applications are based on soil or tissue tests and nutrient budgets for realistic yields; AND, Manure is managed and stored to eliminate off-site movement; AND, Conservation practices and management activities are in place to minimize surface water impacts.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

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

**Evaluation Test Met**

Yes  No

Manure and untreated runoff from animal pens, feedlots, or similar AFO/CAFO is stopped from entering nearby streams, drainage ditches, and irrigation ditches.

Yes  No

Sacrifice areas are properly sited.

Yes  No

**CSP-2019-1\_NE - Pool 5\_Farmstead**

**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

Animal pens, feedlots, or similar AFO/CAFO do not exist on the land management system; OR, Manure and untreated runoff from animal pens, feedlots, or similar AFO/CAFO is stopped from entering nearby streams, drainage ditches, and irrigation ditches.

Yes  No

Water well(s) does not exist; OR, Any water well(s) is located at least 100 feet from animal pens, feedlots, or similar AFO/CAFO; OR, Runoff from these areas is treated; OR, An impervious barrier around the well prevents seepage into the surface water.

Yes  No

**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**

Water well(s) does not exist; OR, Any water well(s) is located at least 100 feet from animal pens, feedlots, or similar AFO/CAFO OR runoff from these areas is treated; OR, An impervious barrier around the well prevents seepage into the groundwater.

Yes  No



**CSP-2019-1\_NE - Pool 5\_Farmstead**

**Excessive Sediment in Surface Water**

**Planning Criteria**

There are no untreated sources of erosion and streams or shoreline are not on or adjacent to site; OR, Upslope treatment and buffer practices address concentrated flows to water bodies; AND, Heavy use areas are stable; AND, The SVAP2 - bank condition is  $\geq 5$ .

**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

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

Water runoff from hard surfaces, such as building roofs, is controlled to the point that it does not cause erosion or concentrated streams of water.

Yes  No

**Elevated Water Temperature**

**Planning Criteria**

Water courses on or adjacent to the site are not designated by a State Agency as a temperature impairment; OR, The SVAP2 - riparian area quality element score is  $\geq 5$ ; AND, The SVAP2 - riparian area quantity element score is  $\geq 5$ ; AND, The SVAP2 - canopy cover element score is  $\geq 6$ ; OR, Existing conservation practices are in place to address water temperature. If water courses are not present, set this planning criteria to NA.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Surface water temperatures do not limit use for fish, wildlife, invertebrates, or other intended purposes. If waterbodies are not present on this land management system, set the test statement to NA.

**Evaluation Test Met**

Yes  No

**CSP-2019-1\_NE - Pool 5\_Farmstead**

**Air Quality Impacts**

**Emissions of Particulate Matter (PM) and PM Precursors**

**Planning Criteria**

Management activities do not contribute to agricultural source particulate matter (PM) or PM precursor emissions; AND, documented episodes or complaints of emissions of PM (dust, smoke, exhaust, etc.), or chemical drift have not occurred. PM producing activity examples are: Prescribed Burn is conducted, Travel ways unpaved or untreated with binding agents, Engines (combustion source), Tillage, Pesticides are applied, Fertilization (manure/commercial), CAFO/manure management.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Dust is controlled on all non-vegetated, unpaved travel ways. If non-vegetated or unpaved travel ways are not used or planned, set this test statement to YES.

**Evaluation Test Met**

Yes  No

**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**

Energy-efficient vehicles, equipment, and other actions are used to lessen discharges of NOx. Other actions may include: regularly servicing and properly maintaining combustion equipment, using the minimum level of equipment needed to accomplish the activity, and minimizing number of trips into the area.

**Evaluation Test Met**

Yes  No

**CSP-2019-1\_NE - Pool 5\_Farmstead**

**Emission of Greenhouse Gases (GHGs)**

**Planning Criteria**

If AFO/CAFO is present the National Air Quality Site Assessment Tool (NAQSAT) indicates "NA" or at least 50% green for the following gasses: Methane (CH<sub>4</sub>) and Nitrous Oxide (N<sub>2</sub>O); for all applicable management categories. If AFO/CAFO is not present, renewable energy sources are utilized.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Renewable energy sources are used.

**Evaluation Test Met**

Yes  No

**CSP-2019-1\_NE - Pool 5\_Farmstead**

**Objectionable Odors**

**Planning Criteria**

**Planning Criteria Met**

The score bars in the NAQSAT report are at least 50% green for all of these sectors (or appropriate documentation is provided to indicate why an applicable score bar does not need to be at least 50% green): Mortalities, Manure Storage, Feed and Water, Land Application, and Animals and Housing data categories under Odor; Manure Storage, Feed and Water, and Animals and Housing data categories under Volatile organic compounds; Manure Storage and Feed and Water data categories under Hydrogen sulfide; and, Manure Storage, Feed and Water, Land Application, Animals and Housing, and Collection and Transfer data categories under Ammonia.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

AFO/CAFO does not exist on the land management system; AND, documented episodes or complaints of odor nuisance have not occurred. If AFO/CAFO exists, set this test statement to NA.

Yes  No

Composting is managed to reduce objectionable odors; AND, documented episodes or complaints of odor nuisance have not occurred. If composting does not occur, set this test statement to NA.

Yes  No

Manure from AFO/CAFO is managed to reduce objectionable odors; AND, documented episodes or complaints of odor nuisance have not occurred. If AFO/CAFO does not exist on this land management system, set this test statement to NA.

Yes  No

**CSP-2019-1\_NE - Pool 5\_Farmstead**

**Degraded Plant Condition**

**Undesirable Plant Productivity and Health**

**Planning Criteria**

Plants are adapted to the site, meet production goals, and do not negatively impact other resources; AND, Plant damage from wind erosion is below crop damage tolerance levels.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Plant yield, vigor, and quality are as expected.

**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

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Trees and shrubs are pruned to improve plant structure and composition.

Yes  No

**CSP-2019-1\_NE - Pool 5\_Farmstead**

**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**

Invasive and noxious weeds are controlled or are not present.

**Evaluation Test Met**

Yes  No

**CSP-2019-1\_NE - Pool 5\_Farmstead**

**Fish and Wildlife - Inadequate Habitat**

**Inadequate Habitat - Food**

**Planning Criteria**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) The SVAP2 - fish habitat complexity element score is  $\geq 7$ ; AND, The SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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 provide nectar and pollen sources for pollinators and beneficial insects as well as providing adequate food for browsing animals.

**Evaluation Test Met**

Yes  No

**CSP-2019-1\_NE - Pool 5\_Farmstead**

**Inadequate Habitat - Cover/Shelter**

**Planning Criteria**

**Planning Criteria Met**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) the SVAP2 - barriers to movement element score is  $\geq 7$ ; AND, the SVAP2 - fish habitat complexity element score is  $\geq 7$ ; AND, the SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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**

Designated areas are planted as food and habitat for pollinators/beneficial insects. For example, planted to nectar and pollen producing plants and protected from disruption--chemical, biological, or mechanical.

Yes  No

The forest/woodlot/shelterbelt is fully stocked with tree species adapted to the site; AND, Has spacing for good tree growth and air flow between and beneath: AND, Does not have excessive tree mortality: AND, Has an understory made up of desirable species: AND, Is not inhibited by brush or other undesirable vegetation.

Yes  No



**CSP-2019-1\_NE - Pool 5\_Farmstead**

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

**Planning Criteria**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) The SVAP2 - barriers to movement element score is  $\geq 7$ ; AND, The SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

In-stream structures (i.e. dam, diversion structure, bridge, culvert, low-water stream crossing, etc.) allow for the upstream and downstream movement of fish and other aquatic animals throughout most of the year.

**Evaluation Test Met**

Yes  No

**CSP-2019-1\_NE - Pool 5\_Farmstead**

**Inefficient Energy Use**

**Equipment and Facilities**

**Planning Criteria**

**Planning Criteria Met**

On-farm renewable energy and/or energy conserving practices have been implemented and energy savings can be documented by operational adherence to an NRCS approved Energy Audit or the use of various energy saving calculators.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Energy loss from lighting, drying, refrigeration, cooling, heating, or building insulation has been improved.

Yes  No

Pumps, motors, wells, etc. located on the land management system are improved efficiency models.

Yes  No

**Farming/Ranching Practices and Field Operations**

**Planning Criteria**

**Planning Criteria Met**

On-farm renewable energy and/or energy conserving practices have been implemented and energy savings can be documented by operational adherence to an NRCS approved Energy Audit or the use of various energy saving calculators.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Energy loss from lighting, drying, refrigeration, cooling, heating, or building insulation has been improved.

Yes  No

Pumps, motors, wells, etc. located on the land management system are improved efficiency models

Yes  No

**CSP-2019-1\_NE - Pool 5 Pasture**

**Soil Erosion**

**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

**Sheet and Rill Erosion**

**Planning Criteria**

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

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

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.

**Evaluation Test Met**

Yes  No

**Wind Erosion**

**Planning Criteria**

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

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Residual forage heights meet or exceed the State standards for controlling wind erosion.

**Evaluation Test Met**

Yes  No

**CSP-2019-1\_NE - Pool 5 Pasture**

**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

**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 > 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

**CSP-2019-1\_NE - Pool 5 Pasture**

**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  $\geq 4$ ; AND, the PCS - plant residue element score is  $\geq 4$ .

**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**

Soils are not compacted to a point that limits plant root depth and growth.

**Evaluation Test Met**

Yes  No

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

Yes  No

**CSP-2019-1\_NE - Pool 5 Pasture**

**Excess Water**

**Runoff and Flooding and Ponding**

**Planning Criteria**

Excess water is managed to minimize the impact on conservation measures and/or crop production.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Measures are applied such as prescribed grazing, grassed waterways, and field borders to reduce excessive runoff; OR, If flooding is a concern pastures are managed within the seasonal flooding periods; OR, Where ponding is a concern land leveling or shallow surface drains prevent ponding of water that limits pasture production.

**Evaluation Test Met**

Yes  No

**CSP-2019-1\_NE - Pool 5 Pasture**

**Insufficient Water**

**Inefficient Use of Irrigation Water**

**Planning Criteria**

The irrigation system components and management result in a Farm Irrigation Rating Index > 60; AND, Meets applicable State in-stream flow and lake and pond water levels requirements. If the land management system is not irrigated, or equipment on this land management system is not used to irrigate, 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, or equipment on this land management system is not used to irrigate, set this test statement to NA.

**Evaluation Test Met**

Yes  No

**Inefficient Moisture Management**

**Planning Criteria**

Moisture management is not a problem; AND, Activities do not cause inefficient moisture management problems; AND, The Pasture Condition Score - compaction element score is  $\geq 4$  AND The Pasture Condition Score - plant cover element score is  $\geq 4$ .

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Plant species are suitable for the site and moisture management is not a problem; And, Management activities do not cause inefficient moisture management problems.

**Evaluation Test Met**

Yes  No

**CSP-2019-1\_NE - Pool 5 Pasture**

**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

**Pesticides in Ground 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; AND, 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



**CSP-2019-1\_NE - Pool 5 Pasture**

**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  $\geq 4$ ; AND, The Pasture Condition Score - livestock concentration areas element score is  $\geq 4$ ; 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

Sacrifice areas are properly sited.

Yes  No

**Nutrients in Ground Water**

**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**

Nutrients are not applied to this land management system; OR, if nutrients are applied, they do not degrade ground water quality; AND, Water use is not limited.

Yes  No

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

**CSP-2019-1 NE - Pool 5 Pasture**

**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

Manure, compost, or bio-solids are not applied; OR, Manure, compost, or bio-solids are applied per soil test recommendations and Land Grant University best management practices, and grazing management optimizes applied products.

Yes  No

**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

**CSP-2019-1 NE - Pool 5 Pasture**

**Excessive Sediment in Surface Water**

**Planning Criteria**

Permanent ground cover > 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  $\geq 5$ ; 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**

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.

**Evaluation Test Met**

Yes  No

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

Yes  No

**Elevated Water Temperature**

**Planning Criteria**

Water courses on or adjacent to the site are not designated by a State Agency as a temperature impairment; OR, The SVAP2 - riparian area quality element score is  $\geq 5$ ; AND, The SVAP2 - riparian area quantity element score is  $\geq 5$ ; AND, The SVAP2 - canopy cover element score is  $\geq 6$ ; OR, Existing conservation practices are in place to address water temperature. If water courses are not present, set this planning criteria to NA.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Surface water temperatures do not limit use for fish, wildlife, invertebrates, or other intended purposes. If waterbodies are not present on this land management system, set the test statement to NA.

**Evaluation Test Met**

Yes  No

**CSP-2019-1\_NE - Pool 5 Pasture**

**Air Quality Impacts**

**Emissions of Particulate Matter (PM) and PM Precursors**

**Planning Criteria**

Management activities do not contribute to agricultural source particulate matter (PM) or PM precursor emissions; AND, documented episodes or complaints of emissions of PM (dust, smoke, exhaust, etc.), or chemical drift have not occurred. PM producing activity examples are: Prescribed Burn is conducted, Travel ways unpaved or untreated with binding agents, Engines (combustion source), Tillage, Pesticides are applied, Fertilization (manure/commercial), CAFO/manure management.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Dust is controlled on all non-vegetated, unpaved travel ways. If non-vegetated or unpaved travel ways are not used or planned, set this test statement to YES.

**Evaluation Test Met**

Yes  No

Prescribed Burning activities are timed and implemented to ensure basic smoke management practices are applied. If Prescribed Burning is not used, set this test statement to NA.

Yes  No

**CSP-2019-1\_NE - Pool 5 Pasture**

**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**

If prescribed burning is used a prescribed burning plan is followed that includes all applicable smoke management practices.

Yes  No

Nitrogen stabilizers are used when any nitrogen is applied. If nitrogen is not applied, set this test statement to NA.

Yes  No

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

**CSP-2019-1 NE - Pool 5 Pasture**

**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

Forage Supply and Demand Balance is achieved.

Yes  No

**Objectionable Odors**

**Planning Criteria**

**Planning Criteria Met**

Activities such as pesticide or manure application are managed to reduce objectionable odors; AND, Odor sources are not regulated in this planning area; AND, Documented episodes or complaints of odor nuisance have not occurred.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Manure is not applied on this land management system; OR, manure is immediately incorporated; OR, manure is only applied when wind direction is away from human occupied areas.

Yes  No

**CSP-2019-1\_NE - Pool 5 Pasture**

**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

**CSP-2019-1\_NE - Pool 5 Pasture**

**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**

Invasive and noxious weeds are controlled or are not present.

**Evaluation Test Met**

Yes  No

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

Yes  No



**CSP-2019-1\_NE - Pool 5 Pasture**

**Fish and Wildlife - Inadequate Habitat**

**Inadequate Habitat - Food**

**Planning Criteria**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) The SVAP2 - fish habitat complexity element score is  $\geq 7$ ; AND, The SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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

**CSP-2019-1 NE - Pool 5 Pasture**

**Inadequate Habitat - Cover/Shelter**

**Planning Criteria**

**Planning Criteria Met**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) the SVAP2 - barriers to movement element score is  $\geq 7$ ; AND, the SVAP2 - fish habitat complexity element score is  $\geq 7$ ; AND, the SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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**

Grazing heights are maintained at a minimum of 6 inches average over winter for mid/tall grass plant communities; AND, 4 inches average over winter for shortgrass plant communities.

Yes  No

The stream(s) have: - a natural, unaltered configuration, with minimal channel straightening, dredging, or bank alteration by armoring with rip-rap or other non-natural materials, - stable banks with limited erosion or bank failure; AND, human uses and/or grazing levels that do not negatively impact bank condition. If streams are not present on the land management system, set the test statement to NA.

Yes  No

The pond/lake, which supports a natural or planted fish population, is managed: -to exclude livestock, -to control nuisance species and undesirable aquatic vegetation controlled, -to complies with state and local regulations when stocking the pond, AND -use of a buffer zone of diverse, natural plant cover at least 35 feet wide.

Yes  No

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

**CSP-2019-1\_NE - Pool 5 Pasture**

**Inadequate Habitat - Water**

**Planning Criteria**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) The SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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**

Developments in the flood plain, stream water withdrawals, flow augmentation, or water control structures may be present, but do not significantly alter the natural flow regime.

**Evaluation Test Met**

Yes  No

**CSP-2019-1 NE - Pool 5 Pasture**

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

**Planning Criteria**

**Planning Criteria Met**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) The SVAP2 - barriers to movement element score is  $\geq 7$ ; AND, The SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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

Existing fences allow wildlife movement without harm.

Yes  No

In-stream structures (i.e. dam, diversion structure, bridge, culvert, low-water stream crossing, etc.) allow for the upstream and downstream movement of fish and other aquatic animals throughout most of the year.

Yes  No

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; AND, Extend from the stream bank or shoreline for a distance of 35 feet; OR, (if applicable) The minimum State buffer-width requirement, whichever is greater.

Yes  No

**CSP-2019-1\_NE - Pool 5 Pasture**

**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 Shelter**

**Planning Criteria**

**Planning Criteria Met**

Artificial or natural shelters meet animal health needs.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Adequate shelter is provided to meet the needs of the livestock throughout the period the land management system (LMS) is utilized by livestock. If livestock do not use this LMS, set the test statement to NA.

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

**CSP-2019-1\_NE - Pool 5 Pasture**

**Inefficient Energy Use**

**Equipment and Facilities**

**Planning Criteria**

On-site renewable energy and/or energy conserving implements have been implemented to improve energy efficiency for field operations.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Energy conserving implements are used for all or some field operations.

**Evaluation Test Met**

Yes  No

**CSP-2019-1 NE - Pool 5 Pasture**

**Farming/Ranching Practices and Field Operations**

**Planning Criteria**

**Planning Criteria Met**

If nutrients are applied, a nutrient budget is used to determine all nutrient application rates; AND, If irrigated, improved efficiency irrigation pumps are being used on the majority of irrigated pastures.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Irrigation water is being managed to maintain a balance of soil moisture not to exceed Field Capacity or get below wilting point (unless water quantity is a limitation). Methods include: soil moisture monitoring with sensors, evapotranspiration monitoring, or other checkbook type methods. If the land management system is not irrigated, set this test statement to NA.

Yes  No

Improved efficiency irrigation pumps and motors are used for more than 50% of irrigation water applications. If the land management system is not irrigated, set this test statement to NA.

Yes  No

Nutrients are not applied; 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

**CSP-2019-1 NE - Pool 5 Range**

**Soil Erosion**

**Sheet and Rill Erosion**

**Planning Criteria**

**Planning Criteria Met**

Range Health Assessment - soil site stability - is slight to moderate or less; OR, Rangeland Planned Trend is positive

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

**Wind Erosion**

**Planning Criteria**

**Planning Criteria Met**

Range Health Assessment - soil site stability - is slight to moderate or less; Or, Rangeland Planned Trend is positive.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Residual forage heights meet or exceed the State standards for controlling wind erosion.

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



**CSP-2019-1 NE - Pool 5 Range**

**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 > 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

**CSP-2019-1 NE - Pool 5 Range**

**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 Range Health Assessment (RHA) - soil site stability is slight to moderate or less; AND, The RHA - biotic integrity attribute rating is slight to moderate departure or less; OR, Rangeland planned trend is positive.

**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**

Soils are not compacted to a point that limits plant root depth and growth.

**Evaluation Test Met**

Yes  No

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

Yes  No

**CSP-2019-1 NE - Pool 5 Range**

**Excess Water**

**Drifted Snow**

**Planning Criteria**

Excess water resulting from drifted snow is managed to prevent significant impacts to conservation measures, site access or sensitive habitat. If drifted snow is not a concern, set this planning criteria to NA.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Wind-blown snow does not restrict access for humans or animals. If drifted snow is not a concern, set this test statement to NA.

**Evaluation Test Met**

Yes  No

**CSP-2019-1 NE - Pool 5 Range**

**Water Quality Degradation**

**Pesticides in Surface Water**

**Planning Criteria**

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.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

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.

**Evaluation Test Met**

Yes  No

**Pesticides in Ground Water**

**Planning Criteria**

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.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

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; AND, 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.

**Evaluation Test Met**

Yes  No

**CSP-2019-1 NE - Pool 5 Range**

**Nutrients in Surface Water**

**Planning Criteria**

Organic or inorganic nutrients are not applied; AND, The PLU is not grazed; OR livestock access to streams is controlled.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

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

**Evaluation Test Met**

Yes  No

Sacrifice areas are properly sited.

Yes  No

**Nutrients in Ground Water**

**Planning Criteria**

Organic or inorganic nutrients are not applied; AND, Conservation practices and management activities are in place to minimize ground water impacts.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

When sinkholes are present in karst regions, livestock use of immediate sinkhole watershed area is managed to avoid nutrient additions to groundwater. If sinkholes are not present, set the test statement to YES.

**Evaluation Test Met**

Yes  No

**CSP-2019-1 NE - Pool 5 Range**

**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

**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

**CSP-2019-1 NE - Pool 5 Range**

**Excessive Sediment in Surface Water**

**Planning Criteria**

Permanent ground cover > 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  $\geq 5$ ; 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**

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.

**Evaluation Test Met**

Yes  No

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

Yes  No

**Elevated Water Temperature**

**Planning Criteria**

Water courses on or adjacent to the site are not designated by a State Agency as a temperature impairment; OR, The SVAP2 - riparian area quality element score is  $\geq 5$ ; AND, The SVAP2 - riparian area quantity element score is  $\geq 5$ ; AND, The SVAP2 - canopy cover element score is  $\geq 6$ ; OR, Existing conservation practices are in place to address water temperature. If water courses are not present, set this planning criteria to NA.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Surface water temperatures do not limit use for fish, wildlife, invertebrates, or other intended purposes. If waterbodies are not present on this land management system, set the test statement to NA.

**Evaluation Test Met**

Yes  No

**CSP-2019-1 NE - Pool 5 Range**

**Air Quality Impacts**

**Emissions of Particulate Matter (PM) and PM Precursors**

**Planning Criteria**

Management activities do not contribute to agricultural source particulate matter (PM) or PM precursor emissions; AND, documented episodes or complaints of emissions of PM (dust, smoke, exhaust, etc.), or chemical drift have not occurred. PM producing activity examples are: Prescribed Burn is conducted, Travel ways unpaved or untreated with binding agents, Engines (combustion source), Tillage, Pesticides are applied, Fertilization (manure/commercial), CAFO/manure management.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Dust is controlled on all non-vegetated, unpaved travel ways. If non-vegetated or unpaved travel ways are not used or planned, set this test statement to YES.

**Evaluation Test Met**

Yes  No

Prescribed Burning activities are timed and implemented to ensure basic smoke management practices are applied. If Prescribed Burning is not used, set this test statement to NA.

Yes  No



**CSP-2019-1 NE - Pool 5 Range**

**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**

If prescribed burning is used a prescribed burning plan is followed that includes all applicable smoke management practices.

**Evaluation Test Met**

Yes  No

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**

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**

Forage Supply and Demand Balance is achieved.

**Evaluation Test Met**

Yes  No

**CSP-2019-1 NE - Pool 5 Range**

**Degraded Plant Condition**

**Undesirable Plant Productivity and Health**

**Planning Criteria**

Vegetation meets similarity index or range condition score of 60 or greater for desired plant community and has a positive trend; OR, Range Health Assessment - biotic integrity attribute rating - is slight to moderate departure or less.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Grazing is periodically deferred to improve or maintain plant vigor.

**Evaluation Test Met**

Yes  No

Plant yield, vigor, and quality are as expected.

Yes  No

**Inadequate Structure and Composition**

**Planning Criteria**

Plant communities contain adequate diversity, composition and structure to support desired ecological functions; OR, the Range Health Assessment - biotic integrity attribute rating is slight to moderate departure or less; OR, Vegetation meet similarity index of 60 or greater for desired plant community and has a positive trend.

**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

**CSP-2019-1 NE - Pool 5 Range**

**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**

Invasive and noxious weeds are controlled or are not present.

**Evaluation Test Met**

Yes  No

The current plants provide the desired plant community for the site.

Yes  No

**Wildfire Hazard, Excessive Biomass Accumulation**

**Planning Criteria**

Wildfire hazards is not a concern; OR, Fuel loads and fuel ladders are managed to provide defensible space.

**Planning Criteria Met**

Yes  No

**Evaluation Tests**

Active management occurs to avoid excessive buildup of likely wildfire fuels.

**Evaluation Test Met**

Yes  No

A prescribed burn plan has been developed and followed by competent, trained fire personnel, where needed.

Yes  No

**CSP-2019-1 NE - Pool 5 Range**

**Fish and Wildlife - Inadequate Habitat**

**Inadequate Habitat - Food**

**Planning Criteria**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) The SVAP2 - fish habitat complexity element score is  $\geq 7$ ; AND, The SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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

**CSP-2019-1 NE - Pool 5 Range**

**Inadequate Habitat - Cover/Shelter**

**Planning Criteria**

**Planning Criteria Met**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) the SVAP2 - barriers to movement element score is  $\geq 7$ ; AND, the SVAP2 - fish habitat complexity element score is  $\geq 7$ ; AND, the SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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

The pond/lake, which supports a natural or planted fish population, is managed: -to exclude livestock, -to control nuisance species and undesirable aquatic vegetation controlled, -to complies with state and local regulations when stocking the pond, AND -use of a buffer zone of diverse, natural plant cover at least 35 feet wide.

Yes  No

The stream(s) have: - a natural, unaltered configuration, with minimal channel straightening, dredging, or bank alteration by armoring with rip-rap or other non-natural materials, - stable banks with limited erosion or bank failure; AND, human uses and/or grazing levels that do not negatively impact bank condition. If streams are not present on the land management system, set the test statement to NA.

Yes  No

Grazing heights are maintained at a minimum of 6 inches average over winter for mid/tall grass plant communities; AND, 4 inches average over winter for shortgrass plant communities.

Yes  No

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

Yes  No

**CSP-2019-1 NE - Pool 5 Range**

**Inadequate Habitat - Water**

**Planning Criteria**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) The SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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**

Developments in the flood plain, stream water withdrawals, flow augmentation, or water control structures may be present, but do not significantly alter the natural flow regime.

**Evaluation Test Met**

Yes  No

**CSP-2019-1 NE - Pool 5 Range**

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

**Planning Criteria**

**Planning Criteria Met**

The WHSI rating is  $\geq 0.5$ ; AND, (when surface stream present) The SVAP2 - barriers to movement element score is  $\geq 7$ ; AND, The SVAP2 - aquatic invertebrate habitat element score is  $\geq 7$ ; 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

Existing fences allow wildlife movement without harm.

Yes  No

In-stream structures (i.e. dam, diversion structure, bridge, culvert, low-water stream crossing, etc.) allow for the upstream and downstream movement of fish and other aquatic animals throughout most of the year.

Yes  No

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; AND, Extend from the stream bank or shoreline for a distance of 35 feet; OR, (if applicable) The minimum State buffer-width requirement, whichever is greater.

Yes  No

**CSP-2019-1 NE - Pool 5 Range**

**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**

Plants growing are expected, desired, suited to the site and provide sufficient dietary needs and production goals of the livestock.

Yes  No

**Inadequate Shelter**

**Planning Criteria**

**Planning Criteria Met**

Artificial or natural shelters meet animal health needs.

Yes  No

**Evaluation Tests**

**Evaluation Test Met**

Adequate shelter is provided to meet the needs of the livestock throughout the period the land management system (LMS) is utilized by livestock. If livestock do not use this LMS, set the test statement to NA.

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