

RCPP-CSP-2019-1_AK - AK Statewide Ag-Land Associated Ag Land

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

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

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

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.

Yes No

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

Yes No

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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

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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

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Subsidence

Planning Criteria

Histisols are managed so as to not exhibit signs of subsidence. Determined and documented with soil survey documentation or other on-site evaluation methods.

Planning Criteria Met

Yes No

Evaluation Tests

The forest O horizon is covered with leaves, needles, fine woody debris, rocks, and/or herbaceous vegetation that protects the soil on more than 90% of the area. There is no artificial drainage operating on the site. If histisols are not present on this land management system, set the test statement to NA.

Evaluation Test Met

Yes No

Concentration of Salts and other Chemicals

Planning Criteria

Salinity/sodicity problems do not exist: OR, Conservation practices and managements are in place to mitigate on-site effects.

Planning Criteria Met

Yes No

Evaluation Tests

There are no areas of extensive bare ground, or largely unvegetated areas, present in areas of high salts. If there are no areas of high salts on the land management system, set this test statement to YES.

Evaluation Test Met

Yes No

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Excess Water

Seeps

Planning Criteria

Seeps are managed to prevent significant impacts to conservation measures and/or sensitive habitat. If seeps do not exist, set this planning criteria to NA.

Planning Criteria Met

Yes No

Evaluation Tests

Excess water seepage is controlled to the point that it does not restrict land use or management goals. If seeps do not exist on the land management system, set this test statement to NA.

Evaluation Test Met

Yes No

Runoff and Flooding and Ponding

Planning Criteria

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

Planning Criteria Met

Yes No

Evaluation Tests

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

Evaluation Test Met

Yes No

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Seasonal High Water Table

Planning Criteria

Excess water resulting from a seasonal high water table is managed to prevent significant negative effects to conservation measures and/or crop production. If seasonal high water tables do not exist, set this planning criteria to NA.

Planning Criteria Met

Yes No

Evaluation Tests

Tile drainage and drainage water management structures have been installed to ease the harmful effects of a seasonal high water table; AND, The discharge of surface/subsurface drainage systems are as prescribed by the drainage water management plan. If seasonal high water tables do not exist in the land management system, set this test statement to NA.

Evaluation Test Met

Yes No

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Insufficient Water

Inefficient Use of Irrigation Water

Planning Criteria

The irrigation system components and management result in a Farm Irrigation Rating Index > 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. Soil loss is less than or equal to T.

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

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Water Quality Degradation

Pesticides in Surface Water

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

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

Yes No

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

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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

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

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

The discharge of surface/subsurface drainage systems are as prescribed by the drainage water management plan.

Yes No

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

Yes No

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

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

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

Yes No

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

Petroleum, Heavy Metal and Other Pollutants Transported to Surface Water

Planning Criteria

Planning Criteria Met

Activities do not present the potential for contamination by petroleum, heavy metals and other pollutants. If present, potential pollutants are stored and handled to avoid runoff to groundwater.

Yes No

Evaluation Tests

Evaluation Test Met

Fuel storage does not occur on this land management system; OR, If required, the producer has and is following a Spill Prevention, Control, and Countermeasure (SPCC) Plan; OR, The fuel storage area and tank is located: - above the 100-year floodplain, - a minimum of 100 feet from any river, stream, ditch, pond, lake, sinkhole, wetland, or water well; AND, Within a stable place designed to provide secondary containment if the primary means were to fail.

Yes No

**RCPP-CSP-2019-1_AK - AK Statewide Ag-Land Associated Ag Land
Petroleum, Heavy Metal and Other Pollutants Transported to Ground Water**

Planning Criteria

Planning Criteria Met

Activities do not present the potential for contamination by petroleum, heavy metals and other pollutants. If present, potential pollutants are stored and handled to avoid seepage to groundwater.

Yes No

Evaluation Tests

Evaluation Test Met

Fuel storage does not occur on this land management system; OR, If required, the producer has and is following a Spill Prevention, Control, and Countermeasure (SPCC) Plan; OR, The fuel storage area and tank is located: - above the 100-year floodplain, - a minimum of 100 feet from any river, stream, ditch, pond, lake, sinkhole, wetland, or water well; AND, Within a stable place designed to provide secondary containment if the primary means were to fail.

Yes No

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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 ≥ 5 .

Yes No

Evaluation Tests

Evaluation Test Met

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

Yes No

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

Yes No

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

Yes No

Established filter strips are at least 20 feet wide and maintained when filter strips are applicable. If filter strips are not applicable on this land management system, set the test statement to NA.

Yes No

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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 ≥ 5 ; AND, The SVAP2 - riparian area quantity element score is ≥ 5 ; AND, The SVAP2 - canopy cover element score is ≥ 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

More than 50% of the water surface is shaded on the length of the stream/river for this land management system. If waterbodies are not present on this land management system, set the test statement to NA.

Evaluation Test Met

Yes No

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

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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

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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

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.

Yes No

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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

The forest is managed to promote carbon sequestration by selecting species with high growth rates or species with long lifespans that are capable of reaching a large size.

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

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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

**RCPP-CSP-2019-1_AK - AK Statewide Ag-Land 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

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Fish and Wildlife - Inadequate Habitat

Inadequate Habitat - Food

Planning Criteria

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

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.

Evaluation Test Met

Yes No

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

Yes No

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Inadequate Habitat - Cover/Shelter

Planning Criteria

Planning Criteria Met

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

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

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Inadequate Habitat - Water

Planning Criteria

The WHSI rating is ≥ 0.5 ; AND, (when surface stream present) The SVAP2 - aquatic invertebrate habitat element score is ≥ 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

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

Yes No

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Inadequate Habitat - Habitat Continuity (Space)

Planning Criteria

Planning Criteria Met

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

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

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

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

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

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Livestock Production Limitation

Inadequate Feed and Forage

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

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

Yes No

Inadequate 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

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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

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

Yes No

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

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

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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

Field slopes are less than 3%; OR, Annual crops are grown in rows across the slope or on the contour.

Yes No

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

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

Yes No

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Ephemeral Gully Erosion

Planning Criteria

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

Planning Criteria Met

Yes No

Evaluation Tests

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

Evaluation Test Met

Yes No

Classic Gully Erosion

Planning Criteria

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

Planning Criteria Met

Yes No

Evaluation Tests

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

Evaluation Test Met

Yes No

**RCPP-CSP-2019-1_AK - AK Statewide Ag-Land_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

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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

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

Yes No

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

Yes No

Compaction

Planning Criteria

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

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

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

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

Yes No

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Concentration of Salts and other Chemicals

Planning Criteria

Planning Criteria Met

Salinity/sodicity problems do not exist: OR, Conservation practices and managements are in place to mitigate on-site effects.

Yes No

Evaluation Tests

Evaluation Test Met

Unconventional soil amendments are not applied; OR, If applied, are tested prior to application to fields and are applied according to a nutrient management system. These amendments could include industrial waste, bio-solids, organics, etc.

Yes No

Irrigation water is 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: moisture by feel, 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

Soil samples are collected and monitored for excessive salt accumulations. Management practices are adjusted to reduce salt levels if applicable.

Yes No

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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

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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

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

Yes No

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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

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

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

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Water Quality Degradation

Pesticides in Surface Water

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

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

Yes No

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

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Nutrients in Surface Water

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

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 discharge of surface/subsurface drainage systems are as prescribed by the drainage water management plan.

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

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

Yes No

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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

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

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

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

Yes No

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

**RCPP-CSP-2019-1_AK - AK Statewide Ag-Land_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

**RCPP-CSP-2019-1_AK - AK Statewide Ag-Land_Crop Annual/Mixed
Petroleum, Heavy Metal and Other Pollutants Transported to Surface Water**

Planning Criteria

Planning Criteria Met

Activities do not present the potential for contamination by petroleum, heavy metals and other pollutants. If present, potential pollutants are stored and handled to avoid runoff to groundwater.

Yes No

Evaluation Tests

Evaluation Test Met

Fuel storage does not occur on this land management system; OR, If required, the producer has and is following a Spill Prevention, Control, and Countermeasure (SPCC) Plan; OR, The fuel storage area and tank is located: - above the 100-year floodplain, - a minimum of 100 feet from any river, stream, ditch, pond, lake, sinkhole, wetland, or water well; AND, Within a stable place designed to provide secondary containment if the primary means were to fail.

Yes No

Petroleum, Heavy Metal and Other Pollutants Transported to Ground Water

Planning Criteria

Planning Criteria Met

Activities do not present the potential for contamination by petroleum, heavy metals and other pollutants. If present, potential pollutants are stored and handled to avoid seepage to groundwater.

Yes No

Evaluation Tests

Evaluation Test Met

Fuel storage does not occur on this land management system; OR, If required, the producer has and is following a Spill Prevention, Control, and Countermeasure (SPCC) Plan; OR, The fuel storage area and tank is located: - above the 100-year floodplain, - a minimum of 100 feet from any river, stream, ditch, pond, lake, sinkhole, wetland, or water well; AND, Within a stable place designed to provide secondary containment if the primary means were to fail.

Yes No

RCP-2019-1_AK - AK Statewide Ag-Land_Crop Annual/Mixed

Excessive Sediment in Surface Water

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

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

Yes No

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

Yes No

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

Yes No

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

Yes No

Established filter strips are at least 20 feet wide and maintained when filter strips are applicable. If filter strips are not applicable on this land management system, set the test statement to NA.

Yes No

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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 ≥ 5 ; AND, The SVAP2 - riparian area quantity element score is ≥ 5 ; AND, The SVAP2 - canopy cover element score is ≥ 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

More than 50% of the water surface is shaded on the length of the stream/river for this land management system. If waterbodies are not present on this land management system, set the test statement to NA.

Evaluation Test Met

Yes No

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

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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

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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

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

Farm or forest harvest equipment is serviced at regular intervals to reduce emissions of ozone precursors

Yes No

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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

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

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

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

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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

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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

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

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Fish and Wildlife - Inadequate Habitat

Inadequate Habitat - Food

Planning Criteria

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

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.

Evaluation Test Met

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

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Inadequate Habitat - Cover/Shelter

Planning Criteria

Planning Criteria Met

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

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

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

Yes No

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Inadequate Habitat - Water

Planning Criteria

The WHSI rating is ≥ 0.5 ; AND, (when surface stream present) The SVAP2 - aquatic invertebrate habitat element score is ≥ 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

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

Yes No

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Inadequate Habitat - Habitat Continuity (Space)

Planning Criteria

Planning Criteria Met

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

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

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

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

Yes No

RCPP-CSP-2019-1_AK - AK Statewide Ag-Land_Crop Annual/Mixed

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

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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

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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

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

Yes No

RCPP-CSP-2019-1_AK - AK Statewide Ag-Land_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

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

Yes No

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

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

RCPP-CSP-2019-1 AK - AK Statewide Ag-Land Crop Perennial

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

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

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

Yes No

RCPP-CSP-2019-1 AK - AK Statewide Ag-Land 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

**RCPP-CSP-2019-1 AK - AK Statewide Ag-Land 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

RCPP-CSP-2019-1 AK - AK Statewide Ag-Land Crop Perennial

Soil Quality Degradation

Organic Matter Depletion

Planning Criteria

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

Planning Criteria Met

Yes No

Evaluation Tests

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

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

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

Evaluation Test Met

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

RCPP-CSP-2019-1 AK - AK Statewide Ag-Land Crop Perennial

Concentration of Salts and other Chemicals

Planning Criteria

Planning Criteria Met

Salinity/sodicity problems do not exist: OR, Conservation practices and managements are in place to mitigate on-site effects.

Yes No

Evaluation Tests

Evaluation Test Met

Irrigation water is 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: moisture by feel, 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

Unconventional soil amendments are not applied; OR, If applied, are tested prior to application to fields and are applied according to a nutrient management system. These amendments could include industrial waste, bio-solids, organics, etc.

Yes No

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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

The orchard or vineyard incorporates deep rooted tree and shrub species to encourage infiltration and reduce runoff, flooding, or ponding.

Evaluation Test Met

Yes No

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Insufficient Water

Inefficient Use of Irrigation Water

Planning Criteria

The irrigation system components and management result in a Farm Irrigation Rating Index > 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

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

Planning Criteria Met

Yes No

Evaluation Tests

The planned or existing plant specie(s) was/were selected to efficiently use available moisture.

Evaluation Test Met

Yes No

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Water Quality Degradation

Pesticides in Surface Water

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

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

Yes No

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

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Nutrients in Surface Water

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

The discharge of surface/subsurface drainage systems are as prescribed by the drainage water management plan.

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

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 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

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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

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

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

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

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

Yes No

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

Yes No

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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

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Petroleum, Heavy Metal and Other Pollutants Transported to Surface Water

Planning Criteria

Planning Criteria Met

Activities do not present the potential for contamination by petroleum, heavy metals and other pollutants. If present, potential pollutants are stored and handled to avoid runoff to groundwater.

Yes No

Evaluation Tests

Evaluation Test Met

Fuel storage does not occur on this land management system; OR, If required, the producer has and is following a Spill Prevention, Control, and Countermeasure (SPCC) Plan; OR, The fuel storage area and tank is located: - above the 100-year floodplain, - a minimum of 100 feet from any river, stream, ditch, pond, lake, sinkhole, wetland, or water well; AND, Within a stable place designed to provide secondary containment if the primary means were to fail.

Yes No

Petroleum, Heavy Metal and Other Pollutants Transported to Ground Water

Planning Criteria

Planning Criteria Met

Activities do not present the potential for contamination by petroleum, heavy metals and other pollutants. If present, potential pollutants are stored and handled to avoid seepage to groundwater.

Yes No

Evaluation Tests

Evaluation Test Met

Fuel storage does not occur on this land management system; OR, If required, the producer has and is following a Spill Prevention, Control, and Countermeasure (SPCC) Plan; OR, The fuel storage area and tank is located: - above the 100-year floodplain, - a minimum of 100 feet from any river, stream, ditch, pond, lake, sinkhole, wetland, or water well; AND, Within a stable place designed to provide secondary containment if the primary means were to fail.

Yes No

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Excessive Sediment in Surface Water

Planning Criteria

Planning Criteria Met

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 >= 5; AND, The livestock and vehicle water crossings are stable; AND, The water erosion rate is less than or equal to T; AND, Wind erosion rate is less than or equal to T.

Yes No

Evaluation Tests

Evaluation Test Met

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

Yes No

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

Yes No

Established filter strips are at least 20 feet wide and maintained when filter strips are applicable. If filter strips are not applicable on this land management system, set the test statement to NA.

Yes No

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

Yes No

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

Yes No

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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 ≥ 5 ; AND, The SVAP2 - riparian area quantity element score is ≥ 5 ; AND, The SVAP2 - canopy cover element score is ≥ 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

More than 50% of the water surface is shaded on the length of the stream/river for this land management system. If waterbodies are not present on this land management system, set the test statement to NA.

Yes No

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

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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

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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

Farm or forest harvest equipment is serviced at regular intervals to reduce emissions of ozone precursors

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

Emission of Greenhouse Gases (GHGs)

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

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

Yes No

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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

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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

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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

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

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Fish and Wildlife - Inadequate Habitat

Inadequate Habitat - Food

Planning Criteria

Planning Criteria Met

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

Inadequate Habitat - Cover/Shelter

Planning Criteria

Planning Criteria Met

The WHSI rating is ≥ 0.5 ; AND, (when surface stream present) the SVAP2 - barriers to movement element score is ≥ 7 ; AND, the SVAP2 - fish habitat complexity element score is ≥ 7 ; AND, the SVAP2 - aquatic invertebrate habitat element score is ≥ 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 rotational scheme is used that simulates wet, early successional habitats that are highly attractive to wetland-associated wildlife.

Yes No

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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 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

All floodable fields in the land management system are managed to maintain surface water at least 4 months per year; AND, artificial supplied water or rainfall are from typical sources. 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

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

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Inadequate Habitat - Water

Planning Criteria

The WHSI rating is ≥ 0.5 ; AND, (when surface stream present) The SVAP2 - aquatic invertebrate habitat element score is ≥ 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

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

Yes No

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Inadequate Habitat - Habitat Continuity (Space)

Planning Criteria

Planning Criteria Met

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

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

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

Yes No

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Livestock Production Limitation

Inadequate 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

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

Yes No

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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

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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

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

Yes No

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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

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

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

RCPP-CSP-2019-1_AK - AK Statewide Ag-Land 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

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.

Yes No

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

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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

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

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

Yes No

Streambank, Shoreline, Water Conveyance Channels

Planning Criteria

Planning Criteria Met

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.

Yes No

Evaluation Tests

Evaluation Test Met

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.

Yes No

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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

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Subsidence

Planning Criteria

Histisols are managed so as to not exhibit signs of subsidence. Determined and documented with soil survey documentation or other on-site evaluation methods.

Planning Criteria Met

Yes No

Evaluation Tests

Areas of organic soils are avoided during all farmstead activities. If histisols are not mapped on this land management system, set the test statement to NA.

Evaluation Test Met

Yes No

Concentration of Salts and other Chemicals

Planning Criteria

Salinity/sodicity problems do not exist: OR, Conservation practices and managements are in place to mitigate on-site effects.

Planning Criteria Met

Yes No

Evaluation Tests

Manure from AFO/CAFO is managed and stored in a manner to prevent excessive accumulation or off-site movement of salts and other chemicals. If there are no AFO/CAFO on the land management system, set this test statement to NA.

Evaluation Test Met

Yes No

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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

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Insufficient Water

Inefficient Moisture Management

Planning Criteria

Moisture management is not a problem and activities do not cause inefficient moisture management problems. Soil loss is less than or equal to T.

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

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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

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

Yes No

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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

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

Nutrients in Surface Water

Planning Criteria

Planning Criteria Met

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.

Yes No

Evaluation Tests

Evaluation Test Met

Sacrifice areas are properly sited.

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

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

Yes No

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

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

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

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

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

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

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Petroleum, Heavy Metal and Other Pollutants Transported to Surface Water

Planning Criteria

Planning Criteria Met

Activities do not present the potential for contamination by petroleum, heavy metals and other pollutants. If present, potential pollutants are stored and handled to avoid runoff to groundwater.

Yes No

Evaluation Tests

Evaluation Test Met

Fuel storage does not occur on this land management system; OR, If required, the producer has and is following a Spill Prevention, Control, and Countermeasure (SPCC) Plan; OR, The fuel storage area and tank is located: - above the 100-year floodplain, - a minimum of 100 feet from any river, stream, ditch, pond, lake, sinkhole, wetland, or water well; AND, Within a stable place designed to provide secondary containment if the primary means were to fail.

Yes No

Petroleum, Heavy Metal and Other Pollutants Transported to Ground Water

Planning Criteria

Planning Criteria Met

Activities do not present the potential for contamination by petroleum, heavy metals and other pollutants. If present, potential pollutants are stored and handled to avoid seepage to groundwater.

Yes No

Evaluation Tests

Evaluation Test Met

Fuel storage does not occur on this land management system; OR, If required, the producer has and is following a Spill Prevention, Control, and Countermeasure (SPCC) Plan; OR, The fuel storage area and tank is located: - above the 100-year floodplain, - a minimum of 100 feet from any river, stream, ditch, pond, lake, sinkhole, wetland, or water well; AND, Within a stable place designed to provide secondary containment if the primary means were to fail.

Yes No

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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 ≥ 5 .

Yes No

Evaluation Tests

Evaluation Test Met

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

Yes No

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

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

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

Yes No

Established filter strips are at least 20 feet wide and maintained when filter strips are applicable. If filter strips are not applicable on this land management system, set the test statement to NA.

Yes No

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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 ≥ 5 ; AND, The SVAP2 - riparian area quantity element score is ≥ 5 ; AND, The SVAP2 - canopy cover element score is ≥ 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

More than 50% of the water surface is shaded on the length of the stream/river for this land management system. If waterbodies are not present on this land management system, set the test statement to NA.

Yes No

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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

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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 (CH₄) and Nitrous Oxide (N₂O); 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

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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

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

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

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

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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

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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

Sites needing wildfire protection or using Prescribed Burning have a permanent or temporary strip of bare or vegetated land (i.e. Fuel Break) that retards fire.

Yes No

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Fish and Wildlife - Inadequate Habitat

Inadequate Habitat - Food

Planning Criteria

Planning Criteria Met

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

Plants provide nectar and pollen sources for pollinators and beneficial insects as well as providing adequate food for browsing animals.

Yes No

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Inadequate Habitat - Cover/Shelter

Planning Criteria

Planning Criteria Met

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

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

Yes No

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Inadequate Habitat - Water

Planning Criteria

Planning Criteria Met

The WHSI rating is ≥ 0.5 ; AND, (when surface stream present) The SVAP2 - aquatic invertebrate habitat element score is ≥ 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.

Yes No

Evaluation Tests

Evaluation Test Met

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.

Yes No

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

Yes No

Inadequate Habitat - Habitat Continuity (Space)

Planning Criteria

Planning Criteria Met

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

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

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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

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

Yes No

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

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

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

Yes No

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

Yes No

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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

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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

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Soil Quality Degradation

Organic Matter Depletion

Planning Criteria

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

Planning Criteria Met

Yes No

Evaluation Tests

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

Evaluation Test Met

Yes No

Compaction

Planning Criteria

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

Planning Criteria Met

Yes No

Evaluation Tests

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

Evaluation Test Met

Yes No

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

Yes No

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Concentration of Salts and other Chemicals

Planning Criteria

Planning Criteria Met

Salinity/sodicity problems do not exist: OR, Conservation practices and managements are in place to mitigate on-site effects.

Yes No

Evaluation Tests

Evaluation Test Met

Irrigation water is 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: moisture by feel, 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

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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

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Insufficient Water

Inefficient Use of Irrigation Water

Planning Criteria

The irrigation system components and management result in a Farm Irrigation Rating Index > 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 ≥ 4 AND The Pasture Condition Score - plant cover element score is ≥ 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

RCPP-CSP-2019-1 AK - AK Statewide Ag-Land 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

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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 ≥ 4 ; AND, The Pasture Condition Score - livestock concentration areas element score is ≥ 4 ; AND, Nutrients are applied and based on a soil test, tissue test or nutrient budget.

Yes No

Evaluation Tests

Evaluation Test Met

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

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

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

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

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

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

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

Manure, 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

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

RCPP-CSP-2019-1 AK - AK Statewide Ag-Land Pasture

Petroleum, Heavy Metal and Other Pollutants Transported to Surface Water

Planning Criteria

Planning Criteria Met

Activities do not present the potential for contamination by petroleum, heavy metals and other pollutants. If present, potential pollutants are stored and handled to avoid runoff to groundwater.

Yes No

Evaluation Tests

Evaluation Test Met

Fuel storage does not occur on this land management system; OR, If required, the producer has and is following a Spill Prevention, Control, and Countermeasure (SPCC) Plan; OR, The fuel storage area and tank is located: - above the 100-year floodplain, - a minimum of 100 feet from any river, stream, ditch, pond, lake, sinkhole, wetland, or water well; AND, Within a stable place designed to provide secondary containment if the primary means were to fail.

Yes No

Petroleum, Heavy Metal and Other Pollutants Transported to Ground Water

Planning Criteria

Planning Criteria Met

Activities do not present the potential for contamination by petroleum, heavy metals and other pollutants. If present, potential pollutants are stored and handled to avoid seepage to groundwater.

Yes No

Evaluation Tests

Evaluation Test Met

Fuel storage does not occur on this land management system; OR, If required, the producer has and is following a Spill Prevention, Control, and Countermeasure (SPCC) Plan; OR, The fuel storage area and tank is located: - above the 100-year floodplain, - a minimum of 100 feet from any river, stream, ditch, pond, lake, sinkhole, wetland, or water well; AND, Within a stable place designed to provide secondary containment if the primary means were to fail.

Yes No

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Excessive Sediment in Surface Water

Planning Criteria

Planning Criteria Met

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 >= 5; AND, The livestock and vehicle water crossings are stable; AND, The water erosion rate is less than or equal to T; AND, Wind erosion rate is less than or equal to T.

Yes No

Evaluation Tests

Evaluation Test Met

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

Yes No

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

Yes No

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

Yes No

RCPP-CSP-2019-1 AK - AK Statewide Ag-Land Pasture

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 ≥ 5 ; AND, The SVAP2 - riparian area quantity element score is ≥ 5 ; AND, The SVAP2 - canopy cover element score is ≥ 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

More than 50% of the water surface is shaded on the length of the stream/river for this land management system. If waterbodies are not present on this land management system, set the test statement to NA.

Yes No

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

RCPP-CSP-2019-1 AK - AK Statewide Ag-Land 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

RCPP-CSP-2019-1 AK - AK Statewide Ag-Land 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

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

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

Forage Supply and Demand Balance is achieved.

Yes No

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

Yes No

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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

RCPP-CSP-2019-1 AK - AK Statewide Ag-Land Pasture

Degraded Plant Condition

Undesirable Plant Productivity and Health

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

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

Yes No

Inadequate Structure and Composition

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

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

Yes No

RCPP-CSP-2019-1 AK - AK Statewide Ag-Land 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

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

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

Sites needing wildfire protection or using Prescribed Burning have a permanent or temporary strip of bare or vegetated land (i.e. Fuel Break) that retards fire.

Evaluation Test Met

Yes No

RCPP-CSP-2019-1 AK - AK Statewide Ag-Land Pasture

Fish and Wildlife - Inadequate Habitat

Inadequate Habitat - Food

Planning Criteria

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

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.

Evaluation Test Met

Yes No

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

Yes No

Inadequate Habitat - Cover/Shelter

Planning Criteria

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

Planning Criteria Met

Yes No

Evaluation Tests

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

Evaluation Test Met

Yes No

RCPP-CSP-2019-1 AK - AK Statewide Ag-Land Pasture

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

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

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

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

RCPP-CSP-2019-1 AK - AK Statewide Ag-Land Pasture

Inadequate Habitat - Water

Planning Criteria

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

Planning Criteria Met

Yes No

Evaluation Tests

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

Evaluation Test Met

Yes No

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.

Yes No

RCPP-CSP-2019-1 AK - AK Statewide Ag-Land Pasture

Inadequate Habitat - Habitat Continuity (Space)

Planning Criteria

Planning Criteria Met

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

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

RCPP-CSP-2019-1 AK - AK Statewide Ag-Land 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

RCPP-CSP-2019-1 AK - AK Statewide Ag-Land Pasture

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

RCPP-CSP-2019-1 AK - AK Statewide Ag-Land 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

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

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

RCPP-CSP-2019-1_AK - AK Statewide Ag-Land_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

RCPP-CSP-2019-1_AK - AK Statewide Ag-Land_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

RCPP-CSP-2019-1_AK - AK Statewide Ag-Land_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

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

Evaluation Test Met

Yes No

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

Yes No

RCPP-CSP-2019-1_AK - AK Statewide Ag-Land_Range

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

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Nutrients in Surface Water

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

Sacrifice areas are properly sited.

Yes No

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

Yes No

Nutrients in Ground Water

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

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.

Yes No

RCPP-CSP-2019-1_AK - AK Statewide Ag-Land 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

RCPP-CSP-2019-1_AK - AK Statewide Ag-Land Range

Petroleum, Heavy Metal and Other Pollutants Transported to Surface Water

Planning Criteria

Planning Criteria Met

Activities do not present the potential for contamination by petroleum, heavy metals and other pollutants. If present, potential pollutants are stored and handled to avoid runoff to groundwater.

Yes No

Evaluation Tests

Evaluation Test Met

Fuel storage does not occur on this land management system; OR, If required, the producer has and is following a Spill Prevention, Control, and Countermeasure (SPCC) Plan; OR, The fuel storage area and tank is located: - above the 100-year floodplain, - a minimum of 100 feet from any river, stream, ditch, pond, lake, sinkhole, wetland, or water well; AND, Within a stable place designed to provide secondary containment if the primary means were to fail.

Yes No

Petroleum, Heavy Metal and Other Pollutants Transported to Ground Water

Planning Criteria

Planning Criteria Met

Activities do not present the potential for contamination by petroleum, heavy metals and other pollutants. If present, potential pollutants are stored and handled to avoid seepage to groundwater.

Yes No

Evaluation Tests

Evaluation Test Met

Fuel storage does not occur on this land management system; OR, If required, the producer has and is following a Spill Prevention, Control, and Countermeasure (SPCC) Plan; OR, The fuel storage area and tank is located: - above the 100-year floodplain, - a minimum of 100 feet from any river, stream, ditch, pond, lake, sinkhole, wetland, or water well; AND, Within a stable place designed to provide secondary containment if the primary means were to fail.

Yes No

RCPP-CSP-2019-1_AK - AK Statewide Ag-Land_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 ≥ 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

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

Yes No

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

Yes No

RCPP-CSP-2019-1_AK - AK Statewide Ag-Land_Range

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 ≥ 5 ; AND, The SVAP2 - riparian area quantity element score is ≥ 5 ; AND, The SVAP2 - canopy cover element score is ≥ 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

RCPP-CSP-2019-1_AK - AK Statewide Ag-Land_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

Emissions of Ozone Precursors

Planning Criteria

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

Planning Criteria Met

Yes No

Evaluation Tests

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

Evaluation Test Met

Yes No

RCPP-CSP-2019-1_AK - AK Statewide Ag-Land_Range

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

Forage Supply and Demand Balance is achieved.

Yes No

RCPP-CSP-2019-1_AK - AK Statewide Ag-Land_Range

Degraded Plant Condition

Undesirable Plant Productivity and Health

Planning Criteria

Planning Criteria Met

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.

Yes No

Evaluation Tests

Evaluation Test Met

Plant yield, vigor, and quality are as expected.

Yes No

Grazing is periodically deferred to improve or maintain plant vigor.

Yes No

Inadequate Structure and Composition

Planning Criteria

Planning Criteria Met

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.

Yes No

Evaluation Tests

Evaluation Test Met

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

Yes No

RCPP-CSP-2019-1_AK - AK Statewide Ag-Land_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

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

Evaluation Test Met

Yes No

Invasive and noxious weeds are controlled or are not present.

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

Sites needing wildfire protection or using Prescribed Burning have a permanent or temporary strip of bare or vegetated land (i.e. Fuel Break) that retards fire.

Evaluation Test Met

Yes No

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

Yes No

Trees, shrubs, and vines are managed in a manner to reduce ladder fuels.

Yes No

RCPP-CSP-2019-1_AK - AK Statewide Ag-Land_Range

Fish and Wildlife - Inadequate Habitat

Inadequate Habitat - Food

Planning Criteria

Planning Criteria Met

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

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

Yes No

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

Yes No

RCPP-CSP-2019-1_AK - AK Statewide Ag-Land Range

Inadequate Habitat - Cover/Shelter

Planning Criteria

Planning Criteria Met

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

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

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

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 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

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

RCPP-CSP-2019-1_AK - AK Statewide Ag-Land_Range

Inadequate Habitat - Water

Planning Criteria

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

Planning Criteria Met

Yes No

Evaluation Tests

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

Evaluation Test Met

Yes No

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.

Yes No

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Inadequate Habitat - Habitat Continuity (Space)

Planning Criteria

Planning Criteria Met

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

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

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

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

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Livestock Production Limitation

Inadequate Feed and Forage

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

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