

CSP-2019-1_NM - Farmstead

Soil Erosion

Sheet and Rill Erosion

Planning Criteria

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

Planning Criteria Met

Yes No

Evaluation Tests

All non-traffic areas are vegetated.

Evaluation Test Met

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

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

Planning Criteria Met

Yes No

Evaluation Tests

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

Evaluation Test Met

Yes No

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

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

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.

Evaluation Test Met

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

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

Histosols 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 histosols 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

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

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.

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

Seasonal High Water Table

Planning Criteria

Planning Criteria Met

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.

Yes No

Evaluation Tests

Evaluation Test Met

The seasonal high water table does not impact conservation measures and/or farmstead areas. If seasonal high water tables do not exist in the land management system, set this test statement to NA.

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

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Pesticides in Ground Water

Planning Criteria

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

Planning Criteria Met

Yes No

Evaluation Tests

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

Evaluation Test Met

Yes No

Nutrients in Surface Water

Planning Criteria

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

Planning Criteria Met

Yes No

Evaluation Tests

Sacrifice areas are properly sited.

Evaluation Test Met

Yes No

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

Yes No

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

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

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

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

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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

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

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

Evaluation Test Met

Yes No

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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

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.

Evaluation Test Met

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

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

Inadequate Habitat - Habitat Continuity (Space)

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 - 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.

Planning Criteria Met

Yes No

Evaluation Tests

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

Evaluation Test Met

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

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.

Planning Criteria Met

Yes No

Evaluation Tests

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

Evaluation Test Met

Yes No

Farming/Ranching Practices and Field Operations

Planning Criteria

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.

Planning Criteria Met

Yes No

Evaluation Tests

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

Evaluation Test Met

Yes No