

CSP-2019-1-Renewal TN - Statewide NIPF Land Evaluation Set Forest

Soil Erosion

Sheet and Rill Erosion

Planning Criteria

Planning Criteria Met

Soil surface organic residue cover greater than 80%; OR, Site is stable and without visible signs of erosion.

Yes No

Evaluation Tests

Evaluation Test Met

The forest O horizon is covered with leaves, needles, fine woody debris, rocks, and/or herbaceous vegetation that protects the soil on more than 80% of the area.

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

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

Yes No

**CSP-2019-1-Renewal TN - Statewide NIPF Land Evaluation Set Forest
Streambank, Shoreline, Water Conveyance Channels**

Planning Criteria

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

Planning Criteria Met

Yes No

Evaluation Tests

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

Evaluation Test Met

Yes No

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Soil Quality Degradation

Organic Matter Depletion

Planning Criteria

Planning Criteria Met

Organic matter within the soil is managed by means of proper forest management. Determined and documented by use of on-site evaluations and state specific forestland management practices.

Yes No

Evaluation Tests

Evaluation Test Met

The forest O horizon is covered with leaves, needles, fine woody debris, rocks, and/or herbaceous vegetation that protects the soil on more than 80% of the area. The O and A horizons are not displaced. Woody residue is being added to the surface soil horizons through branch breakage and treefalls.

Yes No

Tree/shrub residue is left in place to provide for natural organic matter cycling within the forest.

Yes No

Pine straw is not harvested; OR, Pine straw is harvested in a manner that still provides adequate soil organic matter within the forest.

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

Soil compaction is limited to roads and landings. Tree root growth is not impeded. No more than 15% of the forested area is devoted to roads, trails, and landings.

Yes No

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Excess Water

Runoff and Flooding and Ponding

Planning Criteria

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

Planning Criteria Met

Yes No

Evaluation Tests

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.

Evaluation Test Met

Yes No

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

Forest management controls the soil moisture levels such that cyclical water table changes are not extreme. If seasonal high water tables do not exist in the land management system, set this test statement to NA.

Evaluation Test Met

Yes No

CSP-2019-1-Renewal TN - Statewide NIPF Land Evaluation Set Forest**Insufficient Water****Inefficient Use of Irrigation Water****Planning Criteria**

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

Planning Criteria MetYes No **Evaluation Tests**

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

Evaluation Test MetYes 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 the PLU is not grazed; OR, If nutrients are applied, they are based on a soil test, tissue tests or nutrient budget and livestock access to streams is controlled.

Yes No

Evaluation Tests

Evaluation Test Met

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

Yes No

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

Yes No

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

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

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

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

Yes No

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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 greater than or equal to 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

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 greater than or equal to 5; AND, The SVAP2 - riparian area quantity element score is greater than or equal to 5; AND, The SVAP2 - canopy cover element score is greater than or equal to 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

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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

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

Yes No

Emissions of Ozone Precursors

Planning Criteria

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

Planning Criteria Met

Yes No

Evaluation Tests

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

Evaluation Test Met

Yes No

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Degraded Plant Condition

Undesirable Plant Productivity and Health

Planning Criteria

Planning Criteria Met

Forest species are adapted to site AND, Composition and stand density meet ecological site objectives and production goals.

Yes No

Evaluation Tests

Evaluation Test Met

The forest or woodlot is fully stocked with tree species adapted to the site, has spacing for good tree growth and air flow between and beneath, does not have excessive tree mortality, has an understory made up of desirable species and is not inhibited by brush or other undesirable vegetation. Monitoring for insects and disease is completed to prevent outbreaks that would be detrimental to forest health.

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

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

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

Noxious weeds, and plants that impact forest growth, are controlled or are not present.

Evaluation Test Met

Yes No

Trees are selected or planted that are tolerant of known damaging pests. Woody debris that fosters pest outbreaks is appropriately treated to reduce risk.

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

The forest or woodlot is fully stocked with tree species adapted to the site, has spacing for good tree growth and air flow between and beneath, does not have excessive tree mortality, has an understory made up of desirable species and is not inhibited by brush or other undesirable vegetation. Monitoring for insects and disease is completed to prevent outbreaks that would be detrimental to forest health. Woody debris on the forest floor supports wildlife but does not present an elevated fire risk.

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

Yes No

Evaluation Tests

Evaluation Test Met

Plant growth and cover is managed to develop and maintain habitat to benefit target wildlife species.

Yes No

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

Yes No

Evaluation Tests

Evaluation Test Met

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

Yes No

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

Yes No

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

Yes No

Timber is managed in uneven aged stands, and not clear-cut.

Yes No

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

Yes No

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

Yes No

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Inadequate Habitat - Habitat Continuity (Space)

Planning Criteria

Planning Criteria Met

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

Yes No

Evaluation Tests

Evaluation Test Met

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

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

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

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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

An existing Prescribed Grazing plan is on schedule. Animal stocking levels, minimum forage heights are maintained and rotation periods are designed to avoid harm to sensitive plants. If the forest is not grazed, set this 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

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