

**Final Mt. Hood Forest Plan Monitoring Program
May 2016**

Forest Plan Component	Monitoring Question	Indicator(s)
(i) The status of select watershed conditions.		
Standards and Guidelines: FW-055 to FW-058 NWFP Standards and Guidelines: Aquatic Conservation Strategy, General Monitoring Objective (1)	i.a. Have Best Management Practices (BMPs) been implemented and are they effective at managing water quality consistent with the Clean Water Act?	U.S. Forest Service National BMP Annual Monitoring Protocols
(ii) The status of select ecological conditions including key characteristics of terrestrial and aquatic ecosystems.		
Standards and Guidelines: FW-137 NWFP Standards and Guidelines: Riparian Reserves & Aquatic Conservation Strategy	ii.a. Are Standards and Guidelines effective in maintaining or enhancing fish habitat capability?	Number of stream miles currently occupied by representative fish species (i.e., steelhead, chinook, coho, and bull trout).
NWFP Standards and Guidelines: Survey and Manage Species	ii.b. Are habitat improvement projects contributing to the persistence of Survey and Manage species?	Acres of habitat enhanced for Survey and Manage species.
Standards and Guidelines: FW-375 to FW-377, FW-384, Forest Plan Amendments #13 and #15	ii.c. Are known populations of invasive species continuing to spread? Are new infestations occurring?	Acres of surveyed lands with new and active invasive species infestations. Acres treated for invasive species.
Standards and Guidelines: FW-001 to FW-021, B8-001 to B8-055	ii.d. Are projects designed to prevent reactivation or acceleration of landslides, debris slides, debris flows, and earthflow areas?	Description of projects that are near landslides, debris slides, debris flows, and earthflow areas and how the projects affect stability.
(iii) The status of focal species to assess the ecological conditions required under §219.9.		
Desired Condition: Habitat is managed for the pileated woodpecker.	iii.a. What is the trend for mature and late-successional habitat needed for pileated woodpecker persistence?	Acres of late-successional and old growth habitat on the Forest tracked over time.
Desired Condition: Habitat is managed for the American pine marten.	iii.b. What is the trend for mature and late-successional habitat above 3500 feet needed for American marten persistence?	Acres of late-successional and old growth habitat above 3500 feet elevation on the Forest tracked over time.
Desired Condition: Habitat is managed for other wildlife species represented by the named management indicator species.	iii.c. What is the trend for oak pine habitat needed for gray squirrel persistence?	Acres of oak pine habitat tracked over time.
Desired Condition: Habitat is managed for other wildlife species represented by the named management indicator species.	iii.d. What is the trend for early-seral habitat needed for deer and elk persistence?	Acres of early-seral habitat tracked over time.

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(iv) The status of a select set of the ecological conditions required under §219.9 to contribute to the recovery of federally listed threatened and endangered species, conserve proposed and candidate species, and maintain a viable population of each species of conservation concern.		
Standards and Guidelines: FW-139 to FW-147 NWFP Standards and Guidelines: Riparian Reserves & Aquatic Conservation Strategy	iv.a. Are Standards and Guidelines effective in maintaining or enhancing aquatic habitat complexity?	Number of stream miles currently occupied by Endangered Species Act listed fish species (i.e., steelhead, chinook, coho, and bull trout).
NWFP Standards and Guidelines: Late Successional Reserves	iv.b. What is the trend for mature and late-successional habitat needed for northern spotted owl recovery?	Acres of late-successional and old growth habitat on the Forest tracked over time.
Standards and Guidelines: FW-175	iv.c. What is the trend for Oregon Spotted Frog populations at Camas Prairie?	Tracking visual encounter surveys over time.
(v) The status of visitor use, visitor satisfaction, and progress toward meeting recreation objectives.		
Standards and Guidelines: FW-622, FW-624	v.a. Are significant (National Register eligible) historic properties being maintained, stabilized, and repaired according to historic preservation standards?	Monitoring data and/or site condition assessments.
Desired Condition: There are five Wilderness areas on the Forest that will provide primitive recreation opportunities along with scenic, historical and ecological experiences. Standards and Guidelines: A2-005 to A2-035, A2-048 to A2-050	v.b. Are the physical/biological, managerial, and social settings of each Wilderness Resource Spectrum (WRS) maintained consistent with the standards for wilderness management?	Wilderness Performance Program Score Card – 10 elements associated with wilderness stewardship will be selected. ¹
Desired condition: Activities such as hunting, sightseeing, off-road vehicle use, dispersed camping, cross-country skiing, and fishing are typical.	v.c. Has the Off-Highway Vehicle Record of Decision 2010 been implemented?	Development and designation of designated trails in INFRA Roads and Trails databases.

¹ The WSP framework contains four mandatory elements (agency management actions, workforce capacity, education, and wilderness character baseline) and the Forest will select six other elements from a list of 15: Invasive Species; Air Quality Values; Natural Quality of Wilderness Character; Natural Role of Fire; Water; Fish and Wildlife; Recreation Sites; Trails; Non-Compliant Infrastructure; Motorized Equipment / Mechanical Transport Use Authorizations; Agency Management Actions; Opportunities for Solitude; Opportunities for Primitive and Unconfined Recreation; Cultural Resources; Livestock Grazing; Outfitters and Guides; Other Special Provisions (e.g., dams, airstrips, mines); Workforce Capacity; Education; and, Wilderness Character Baseline.

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Desired condition: Outdoor recreation opportunities on the Forest are available in a variety of settings. Opportunities for dispersed recreation in a roaded setting are plentiful. Activities such as hunting, sightseeing, ORV use, dispersed camping, cross-country skiing, and fishing are typical. Opportunities for dispersed recreation in unroaded areas are less plentiful.	v.d. Are people having a high level of satisfaction during their visit to Mt. Hood National Forest?	Percent visitor satisfaction for (1) developed sites, (2) general forest areas, and (3) designated wilderness.
(vi) Measurable changes on the plan area related to climate change and other stressors that may be affecting the plan area.		
Desired Condition: The Bull Run continues to be managed for high quality water. Standards and Guidelines: FW-054-060, 078-079, 84, 130 FW-071, , D-001 to D-021	vi.a. Is the production of pure, clear, raw, potable water being sustained for municipal use?	Changes in the quality and quantity of sustainable, municipal water supply.
Standards and Guidelines: FW-381 to FW-383	vi.b. What are the current tree mortality rates and patterns across the forest?	Detectable acres of high tree mortality.
(vii) Progress toward meeting the desired conditions and objectives in the plan, including for providing multiple use opportunities.		
Objective: Long term sustained yield capacity and timber growth since previous decade.	vii.a. Is total growth and productivity exceeding mortality over all forest disturbances? Every five to ten years?	Track growth, harvest, stocking, and mortality by land use allocation over time.
Objective: Produce a continuing supply of wood products, maintain an even flow of harvest and provide a positive economic return to the government.	vii.b. What is the rate of harvest of stands available for timber management?	Acres of timber harvested by land allocation.
	vii.c. How much timber is being awarded?	Awarded timber each fiscal year.
Desired Condition: Timber harvest comes from lands suitable for growing timber.	vii.d. Are there any changes in the land base available for producing timber?	Change in acres of land use allocations permitting timber harvest.
Desired Condition: Areas harvested are adequately restocked within five years of final harvest (36 CFR 219.27). Standards and Guidelines: FW-358, C1-019 to C1-021	vii.e. Are we meeting the 5-year regeneration period required by the National Forest Management Act?	Meeting stocking guidelines in Forest Plan as tiered to Forest Service Handbook.

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<p>Goal: Provide safe, efficient access for the movement of people and materials involved in the use and management of the Forest.</p> <p>Standards and Guidelines: FW-419, FW-420</p>	<p>vii.f. How many miles are suitable for passenger cars and high clearance vehicles?</p>	<p>Miles of road being maintained each year for all vehicles. Miles of roads providing safe access for use and management of the Forest.</p>
<p>Standards and Guidelines: FW-419 to FW-424</p>	<p>vii.g. Are road management activities being implemented in accordance with the latest access and travel management direction?</p>	<p>Miles of road converted into desired maintenance level and/or that have achieved the road management objectives.</p>
<p>(viii) The effects of each management system to determine that they do not substantially and permanently impair the productivity of the land (16 U.S.C. 1604(g)(3)(C)).</p>		
<p>Standards and Guidelines: FW-022 to FW-038</p>	<p>viii.a. Are management activities being implemented so that they do not substantially and permanently impair the productive capacity of the land?</p>	<p>Extent of detrimental soil disturbance in an activity unit.</p>