RANGELAND HEALTH STANDARDS - ASSESSMENT -RIM ALLOTMENT #0210

STANDARD 1 - UPLAND WATERSHED

Upland soils exhibit infiltration and permeability rates, moisture storage and stability that are appropriate to soil, climate and landform.

This standard is being met on the allotment.

The indicators used to evaluate this standard are Soil Surface Factor (SSF), which documents accelerated erosion; and plant community composition, which indicates root occupancy of the soil profile.

Soil Surface Factor (SSF) is an indicator of accelerated erosion and is a method of documenting observations regarding erosion. Of the 2,037 acres in Rim Allotment, 1,477 acres (73%) have an SSF rating of Slight and 4% is rockland with 23% being unknown. The rating of Slight is the second lowest level of erosion in this methodology. A copy of the form used to document SSF is attached (Appendix A, "Determination of Erosion Condition Class").

Another indicator of Upland Watershed condition is plant composition and community structure. Current plant composition is compared to a defined Potential Natural Plant Community for the identified soil type and precipitation zone. Using the 1988 Ecological Site Inventory, the percent of the allotment in each seral stage is summarized in the table below. As can be seen most of the allotment is in the Mid seral (62%) or Late Seral stage (11%).

Seral Stage	Percent comparability to Potential Natural Community	Percent of allotment in seral stage
Early	0-25%	1% (20 acres)
Mid	26-50%	62% (1,259 acres)
Late	51-75%	11% (219 acres)
Rockland		4% (86 acres)
Unknown*		16% (453 acres)

^{*} The unknown acres are the inclusions within a vegetation community that include transition areas and plant communities too small to be mapped separately.

STANDARD 2 - RIPARIAN/WETLAND

Riparian-wetland areas are in properly functioning physical condition appropriate to soil, climate and landform.

Standard 2 is being met for Riparian/Wetland function

The 5 acres of wetlands found in the allotment are currently at Proper Functioning Condition (PFC). Livestock grazing does not appear to be impacting these areas.

STANDARD 3 - ECOLOGICAL PROCESSES

Healthy, productive and diverse plant and animal populations and communities appropriate to soil, climate and landform are supported by ecological processes of nutrient cycling, energy flow and the hydrologic cycle.

This standard is being partially met. The upper slopes of the allotment contain healthy, productive and diverse plant and animal populations and communities that are supported by ecological processes of nutrient cycling, energy flow and the hydrologic cycle. The lower elevations of this allotment contain stands of the introduced annual, cheatgrass. It would take major input of resources to reduce/eliminate the cheatgrass.

The Observed Apparent Trend (Appendix B) was determined during ESI and it was static on 65% (1,320 acres) of the allotment and upward on 8% (156 acre). There was 4% rockland and 23% was not rated by the ESI inventory.

There are three photo trend plots in the allotment that were started in 1969 and photographed through the years. Trend Plot Photo #1 was taken in the lower elevations and up until 1991 there was little grass present and the use was seasonlong. Now more grass appears to be present, especially cheatgrass, but there is some perennials showing up around the shrubs.

Trend Plot Photo #2 is near the top of the rim and shows more perennial grass present. The sagebrush appears to have grown larger during the 30 years. There appears to be an increase in the size of the juniper trees and a small increase in juniper density.

Trend Plot Photo #3 is on the lower part of the slope and is in a site that was sprayed to reduce sagebrush in 1970. There has been a steady recruitment of in sagebrush back into the site but the density is still lower than in 1970. There appears to be a significant increase in the size and density of juniper trees between 1970 and 1997.

The utilization studies in 1970 showed heavy use in the allotment, but by 1985 the use was light (30%) on most of the public land and the heavy use was restricted to the private land down near the bottom and near the water sources. This pattern has continued since, as the current grazing system is to use the area in the spring to utilize the cheatgrass when it is green and allow the perennial grasses to grow all summer. Therefore the current livestock grazing is not impacting the ecological processes.

Standard 3 is being met for animal populations. The allotment is supporting the current and proposed number of mule deer and pronghorn antelope identified by Oregon Department of Fish and Wildlife (ODFW) management plans.

No noxious weeds are known to occur in the allotment. Scotch thistle, Canada thistle, bull thistle, and Mediterranean sage are in the vicinity. The potential for weed movement in to the allotment is high due to possible transport of weed seed and plant parts along the county road.

STANDARD 4 - WATER QUALITY STANDARDS

Surface and groundwater quality, influenced by agency actions, complies with State water quality standards.

This standard is not applicable to this allotment since there are no 303d listed water bodies within the allotment.

STANDARD 5 - NATIVE, T&E, and LOCALLY IMPORTANT SPECIES

Standard 5 is being met for native, T&E, and locally important wildlife species. Habitats support healthy, productive and diverse populations and communities of native plants and animals (including special status species and species of local importance) appropriate to soil, climate and landform.

There are no known sage grouse leks within the allotment, however, sage grouse have been seen using the allotment at different times of the year. There are 3 identified sage grouse leks and nesting habitat within the surrounding allotments, but livestock grazing does not appear to be limiting sage grouse production within the allotment. Peregrine falcons have been seen within the allotment, probably from releases from the Crump Lake hack site, however, no nesting occurs within the area. Bald eagles use the area in the winter, feeding off carrion.

Current Management and Recent Management Changes

The current management is to graze the allotment in the spring (March-May) using the private land on the south end first and then allow the livestock to move up slope onto the public land. This method allows the cattle to use the cheatgrass down low on the private land while it is green and palatable and then graze the side slopes for a short time.

Team Members Title

Les Boothe Range Management Specialist

Alan Munhall Fishery Biologist Vern Stofleth Wildlife Biologist

Lucile HousleyBotantistBill CannonArchaeologistKen KestnerSupervisory NRSRobert HopperSupervisory RMS

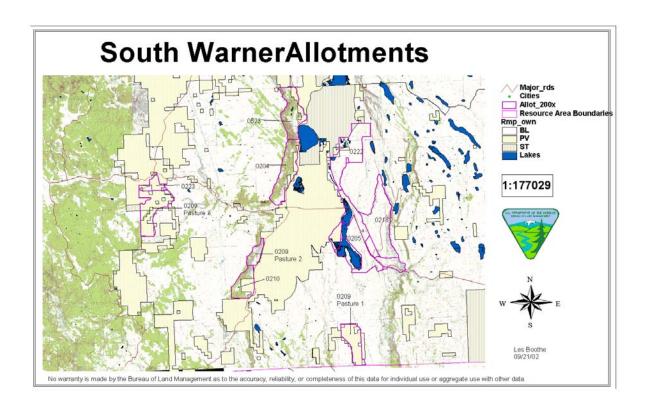
Erin McConnell Weed Management Specialist

Determination

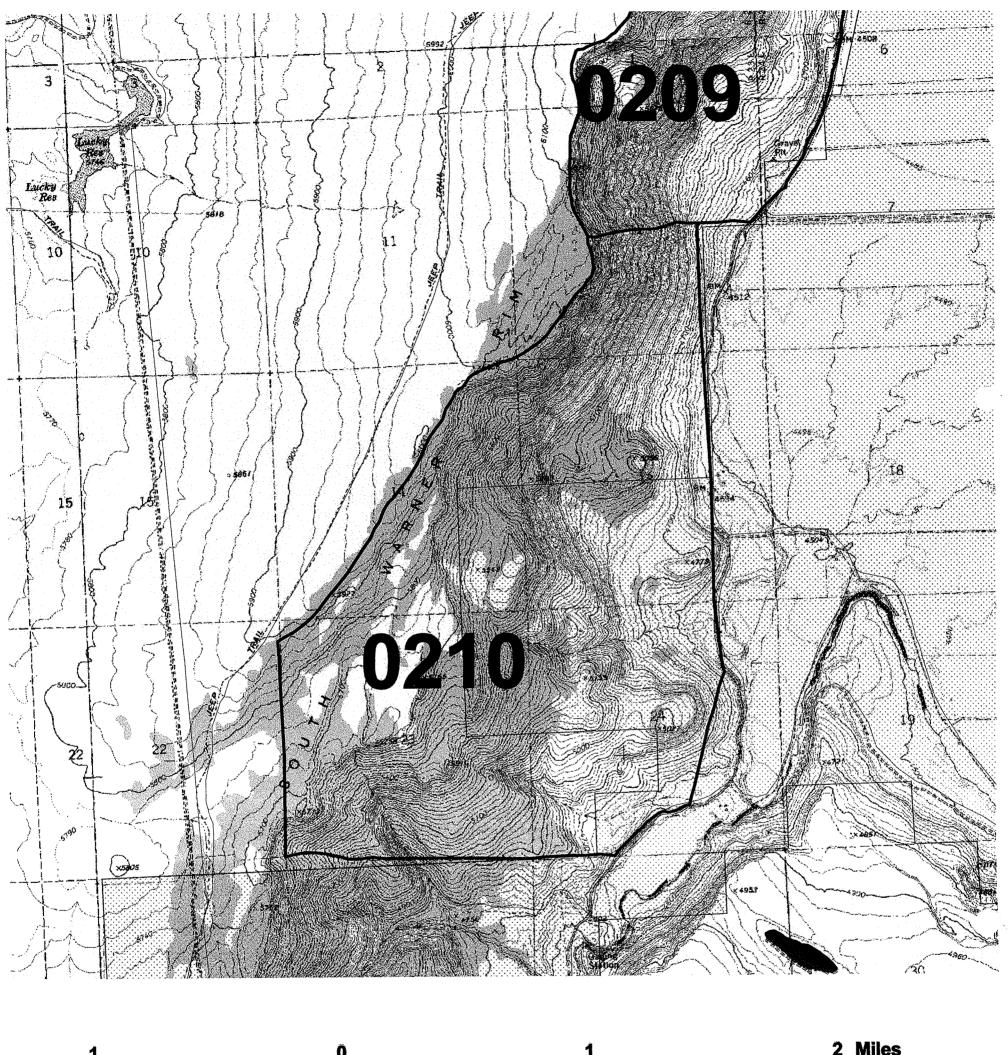
- Existing grazing management practices or levels of grazing use on the Rim Allotment promote achievement of significant progress towards the Oregon Standards for Rangeland Health and conform with the Guidelines for Livestock Grazing Management.
- () Existing grazing management practices or levels of grazing use on the Rim Allotment will require modification or change prior to the next grazing season to promote achievement of the Oregon Standards for Rangeland Health and conform with the Guidelines for Livestock Grazing Management.

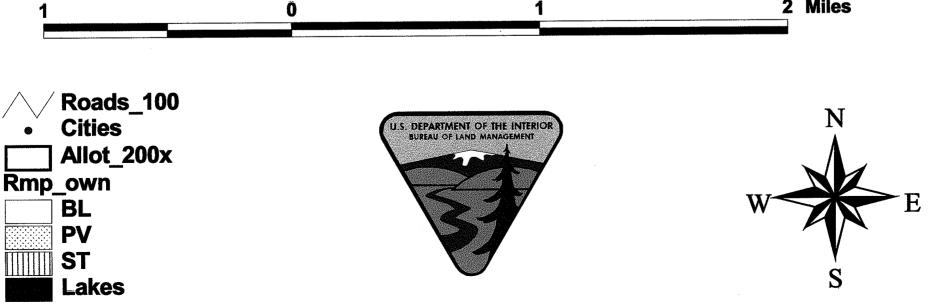
Acting Area Manager, Lakeview Resource Area

/30/02 Date



Rim Allotment





No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of this data for individual use with other data.

Les Boothe 09/26/02

Appendix A.

DETERMINATION OF EROSION CONDITION CLASS

Soil Surface Factors

SOIL MOVEMENT	No visible evidence of	Some Movement of soils	Moderate Movement of soil is	Occurs with each event. Soil and	Subsoil exposed over much of area
SOIL WOVEMENT	movement	particles	visible and recent slight terracing generally less than 1" in height	Debris deposited against minor obstructions	may have embryonic dunes and wind scoured dunes
	0 1 2 3	4 5	6 7 8	9 10 11	12 13 14
SURFACE LITTER	Accumulating in place	May show slight movement	Moderate movement is apparent, deposited against obstacles	Extreme movement apparent, large and numerous deposits against obstacles	Very little remaining (use care on low productive sites)
	0 1 2 3	4 5 6	7 8	9 10 11	12 13 14
SURFACE ROCK	If present, the distribution of fragments show no movement caused by wind or water	If present, course fragments have a truncated appearance or spotty distribution caused by wind or water	If present, fragments have a poorly developed distribution pattern caused by wind or water	If present, surface rock or fragments exhibit some movement and accumulation of smaller fragments behind obstacles	If present, surface rock or fragments or dissected by rills and gullies or are already washed away
	0 1 2	3 4 5	6 7 8	9 10 11	12 13 14
PEDESTALLING	No visible evidence of pedestalling	Slight pedestalling, in flow patterns	Small rock and plant pedestals occuring in flow patterns	Rocks and plants on pedestals generally evident, plant roots exposed	Most rocks and plants pedestalled and roots exposed
	0 1 2 3	4 5 6	7 8 9	10 11 12	13 14 15
FLOW PATTERNS	No visible evidence of flow patterns	Deposition of particles may be in evidence	Well defined, small, and few with intermittent deposits	Flow patterns contain silt and sand deposits and alluvial fans	Flow patterns are numerous and readily noticeable. May have large barren fan deposits
:	0 1 2 3	4 5 6	7 8 9	10 11 12	13 14 15
RILLS	No visible evidence of rills	Some rills in evidence at infrequent intervals over 10' intervals	Rills 1/2" to 6" deep occur in exposed places at approximately 10' intervals	Rills 1/2" to 6" deep occur in exposed area at intervals of 5 to 10"	May be present at 3" to 6" deep at intervals less than 5'
	0 1 2 3	4 5 6	7 8 9	10 11 12	13 14 15
GULLIES	May be present in stable condition. Vegetation on channel bed and side slopes	A few gullies in evidence which show little bed or slope erosion. Some vegetation present on slopes	Gullies are well developed with active erosion along less than 10% of their length. Some vegetation may be present	Gullies are numerous and well developed with active erosion along 10 - 50% of their lengths or a few well developed gullies with active erosion along more than 50% of their length	Sharply incised gullies cover most of the area and over 50% are actively eroding
	0 1 2 3	4 5 6	7 8 9	10 11 12	13 14 15
SITUATION	TOTAL				
4	i	1	1	1	1

Appendix B. OBSERVED APPARENT TREND

(Check appropriate box in each category which best fits area being observed)

VIGOR (10 Points)	Desirable grasses, forbs and shrubs are vigorous, showing good health. These plants should have good size, color and produce abundant herbage.
(6 Points)	Desirable grasses, forbs and shrubs have moderate vigor. They are medium size with fair color and producing moderate amounts of herbage, some seed stalks and seedheads are present.
(2 Points)	Desirable grasses, forbs and shrubs have low vigor. They appear unhealthy with small size and poor color. Portions of clumps or entire plants are dead or dying. Seed stalks and seedheads almost non-existent except in protected areas.
SEEDLINGS (10 Points)	There is seedling establishment of desirable grasses, forbs and shrubs. Seedlings are present in open spaces between plants and along edges of soil pedestals. Few seedlings of invader or undesirable plants are present.
(6 Points)	Some seedlings of desirable grasses, forbs and shrubs may or may not be present in open spaces between plants. Some seedlings of invader or undesirable plant species may or may not be present.
(2 Points)	Few if any seedlings of desirable grasses, forbs and shrubs are being established. Seedlings of invaders or undesirable should be present in open space between plants.
SURFACE LITTER (5 Points)	Surface litter is accumulating in place.
(3 Points)	Moderate movement of surface litter is apparent and deposited against obstacles.
(1 Point)	Very little surface litter is remaining.
PEDESTALS (5 Points)	There is little visual evidence of pedestalling. Those pedestals are sloping or rounding and accumulating litter. Desirable forage grasses may be found along edges of pedestals.
(3 Points)	Moderate plant pedestalling. No visual evidence of healing or deterioration. Small rock and plant pedestals may be occurring in flow patterns.
(1 Point)	Most rocks and plants are pedestalled. Pedestals are sharped sided and eroding often exposing grass roots.
GULLIES (5 Points)	Gullies may be present in stable condition with moderate sloping or rounded sides. Perennials should be establishing themselves on bottom and sides of channel.
(3 Points)	Gullies are well developed with small amounts of active erosion. Some vegetation may be present.
(1 Point)	Sharply incised V-shaped gullies cover most of the area with most of the gullies actively eroding. Gullies are mostly devoid of perennial plants with fresh cutting of the bottom.

TOTAL POINTS _____ Rating 26-35-Upward; 17-25-Static; 7-16-Downward