

Grassy Knob Wilderness Air Quality Report

National Forest: Siskiyou National Forest

State: OR

Counties: Curry

General Location: Southern Oregon Coast Range

Acres: 17,159



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Wilderness ID: 217

Wilderness Name: Grassy Knob Wilderness

Wilderness Categories	Information Specific to this Wilderness
Year Established	1984
Establishment Notes	Oregon Wilderness Act of 1984
Designation	Clean Air Act Class 2
Administrative	Rogue River-Siskiyou National Forest
Unique Landscape Features	Covered in a tangled rain forest of coniferous evergreens thick with an ankle-grabbing understory, Grassy Knob Wilderness lies rugged and steep. Access is limited and off-trail hiking rates as an extremely rough experience. Elevations vary from almost sea level to more than 2,000 feet on summits that include Grassy Knob, at 2,342 feet, on the western boundary and borders the Elk River on its southern boundary. This Wilderness nurtures the fragrant Port Orford cedar, drooping with its characteristic twisting limbs in rare stands of old growth with some trunks exceeding six feet in diameter. The primary drainage of misnamed Dry Creek provides habitat for a remarkable population of spawning salmon. Many small, turbulent, and virtually pure streams tumble for short distances over emerald waterfalls and through ravines cool with shade during typically sunny summers. The red of vine maple brightens moss-laden glens come autumn, while winter brings an average of 130 inches of chilly rain born in the nearby Pacific. Weather changes may be remarkable and rapid.
Lakebed Geology Sensitivity	N/A
Lakebed Geology Composition	Not Reported
Visitor Use	Not Reported
Mean Annual Precipitation	Not Reported
Elevation Range	34 - 791 (meters)
Mean Max Aug Temp	Not Reported
Mean Min Dec Temp	Not Reported
Lake Acres	Not Reported
Pond Acres	Not Reported
Lake Count	Not Reported
Pond Count	Not Reported
TES Flora	Platismatia lacunosa
TES Wildlife	Bald Eagle, Marbled Murrelet
TES Fish	Not Reported
Ozone Sensitive Plants	Not Reported
Air Quality Sensitive Lichens	Not Reported
Cultural Resources	Not Reported
Status/Trends: Acid Deposition:	Not Reported
Status/Trends: Nutrient Enrichment:	Not Reported
Status/Trends: Ozone Impacts:	Not Reported

AQRV's

Fauna

Fauna Priority: Low

Fauna Receptor: Fish

Fauna Indicator: Concentration of methyl mercury

Fauna Trends: Not Reported

Fauna Actions:

Collect resident fish (e.g., juvenile salmon) and analyze for mercury.

Flora

Flora Priority: High

Flora Receptor: Lichens

Flora Indicator: Changes in community composition

Flora Trends: Not Reported

Flora Priority 2: High

Flora Receptor 2: Lichens

Flora Indicator 2: Concentrations of N, S, P, Cd, Cr, Pb, Hg, Ni, Ti, V and Zn

Flora Trends 2: Not Reported

Flora Priority 3: High

Flora Receptor 3: Ozone

Flora Indicator 3: Visible injury on ozone-sensitive plants

Flora Trends 3: Not Reported

Flora Actions:

Repeat visits to existing lichen plots to monitor for trends. Site visits should be repeated once every ten years.

Visibility

Visibility Priority: Low

Visibility Receptor: Scenic Views

Visibility Indicator: Regional haze

Visibility Trends: Not Reported

Visibility Actions

Site is represented by the IMPROVE monitor in the Kalmiopsis Wilderness (KALM1). See the Oregon Regional Haze Plan and IMPROVE monitoring reports for more details.

Water

Water Priority: Medium

Water Receptor: Water Chemistry

Water Indicator: ANC

Water Trends: Not Reported

Water Priority 2: Medium

Water Receptor 2: Water Chemistry

Water Indicator 2: DIN: TP

Water Trends 2: Not Reported

Water Priority 3: Low

Water Receptor 3: Diatoms

Water Indicator 3: Community Composition

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Water Trends 3: Not Reported

Water Actions:

Collect water sample from Dry Creek and analyze for anions, cations, and nutrients.

Challenge Points

Fauna Challenge Points: Not Reported

Flora Challenge Points: 6

Total Plots: 2

Desired Plots: 1

Additional Plots Needed: -1

Data Type: Baseline

Round 1 Visits: 0

Round 2 Visits: 2

Baseline %: 233

Trends %: 0

Visibility Challenge Points: Not Reported

Water Challenge Points: Not Reported