

Rogue-Umpqua Divide Wilderness Air Quality Report

Wilderness ID: 213

Wilderness Name: Rogue-Umpqua Divide Wilderness

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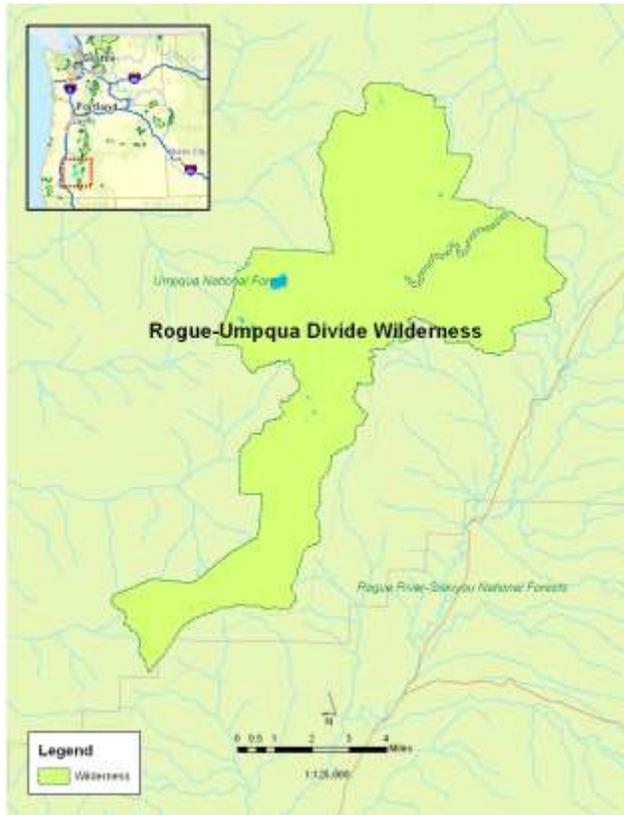
National Forest: Rogue River National Forest, Umpqua National Forest

State: OR

Counties: Douglas

General Location: Southern Oregon Cascade Range

Acres: 35,701



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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, Umpqua
Unique Landscape Features	The Rogue Umpqua Divide Wilderness is located in southwest Oregon, ten miles west of Crater Lake National Park. Elevations range from 3000 to 6800 feet along the divide between the Rogue and Umpqua Rivers. Geologic history has created many unique volcanic and sedimentary rock outcrops. Dense conifer forest gives way to a mosaic of big trees and sub-alpine meadows in the higher elevations. Meadow wildflowers are abundant in summer and diverse plant communities provide habitat for everything from hummingbirds to black bears. Water is abundant in streams and a handful of lakes. About 100 miles of trails access the area, providing loop opportunities and ridgetop vistas. Snow accumulations are transitory below 4000 feet and the entire area is usually snow free by mid-July.
Lakebed Geology Sensitivity	High
Lakebed Geology Composition	andesite dacite diorite phyllite (90%), amphibolite hornfels paragneiss undifferentiated metamorphic roc (10%), GC 1+2 (90%), GC 1+2+3 (90%), GC 4+5+6 (10%)
Visitor Use	Not reported in the database.
Mean Annual Precipitation	Not reported in the database.
Elevation Range	839 - 2062 (meters)
Mean Max Aug Temp	Not reported in the database.
Mean Min Dec Temp	Not reported in the database.
Lake Acres	94
Pond Acres	41
Lake Count	3
Pond Count	21
TES Flora	Allium campanulatum, Chaenotheca brunneola, Collomia mazama, Columbiadoria hallii, Craterellus tubaeformis, Erigeron cascadenis, Fraxina fastigiata, Fritillaria glauca, Galerina atkinsoniana, Gentianopsis simplex, Gomphus kauffmanii, Gyromitra esculenta, Hazardia whitneyi var. discoidea, Hieracium greenei, Hydnum umbilicatum, Lobaria pulmonaria, Mycena overholtsii, Nephroma helveticum, Nephroma parile, Nephroma resupinatum, Parnassia fimbriata var. hoodiana, Peltigera collina, Phacelia verna, Pithya vulgaris, Pseudocypbellaria anomala, Pseudocypbellaria anthraxis, Rhizopogon truncatus, Romanzoffia thompsonii, Sarcosoma latahense, Sarcosoma mexicana, Sticta fuliginosa
TES Wildlife	Northern Spotted Owl
TES Fish	Not reported in the database.
Ozone Sensitive Plants	Not reported in the database.
Air Quality Sensitive Lichens	Alectoria imshaugii, Alectoria sarmentosa, Bryoria capillaris, Bryoria fremontii, Bryoria fuscescens, Bryoria glabra, Bryoria trichodes, Hypogymnia occidentalis, Nodobryoria abbreviata, Nodobryoria oregana, Parmeliopsis ambigua, Parmeliopsis hyperopta

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Cultural Resources	Not reported in the database.
Status/Trends: Acid Deposition:	Not reported in the database.
Status/Trends: Nutrient Enrichment:	Not reported in the database.
Status/Trends: Ozone Impacts:	Not reported in the database.

AQRV's

Fauna

Fauna Priority: Medium

Fauna Receptor: Fish

Fauna Indicator: Concentration of methyl mercury

Fauna Trends: Not reported in the database.

Fauna Actions:

Collect and analyze fish for mercury from the lakes most frequently fished. While on-site, collect water samples as well.

Flora

Flora Priority: High

Flora Receptor: Lichens

Flora Indicator: Changes in community composition

Flora Trends: Not reported in the database.

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 in the database.

Flora Priority 3: Low

Flora Receptor 3: Ozone

Flora Indicator 3: Visible injury on ozone-sensitive plants

Flora Trends 3: Not reported in the database.

Flora Actions:

Repeat visits to lichen plots once every 10 years. Waiting for evaluation of previously collected lichen before full points are assigned for trends analysis.

Visibility

Visibility Priority: Medium

Visibility Receptor: Scenic Views

Visibility Indicator: Regional haze

Visibility Trends: Not reported in the database.

Visibility Actions

Nearest IMPROVE visibility monitor is located at Crater Lake National Park (CRLA1).

Water

Water Priority: Medium

Water Receptor: Water Chemistry

Water Indicator: ANC

Water Trends: Not reported in the database.

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Water Priority 2: Medium

Water Receptor 2: Water Chemistry

Water Indicator 2: DIN: TP

Water Trends 2: Not reported in the database.

Water Priority 3: Low

Water Receptor 3: Diatoms

Water Indicator 3: Community Composition

Water Trends 3: Not reported in the database.

Water Actions:

Repeat visit needed to Buckeye, Cliff, and Fish Lakes for ANC and nutrient ratios.

Challenge Points

Fauna Challenge Points: Not reported in the database.

Flora Challenge Points: 8

Total Plots: 3

Desired Plots: 2

Additional Plots Needed: -1

Data Type: Trends

Round 1 Visits: 3

Round 2 Visits: 2

Baseline %: 168

Trends %: 112

Visibility Challenge Points: Not reported in the database.

Water Challenge Points: 5