

Rock Creek Wilderness Air Quality Report

Wilderness ID: 210

Wilderness Name: Rock Creek Wilderness

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National Forest: Siuslaw

State: OR

Counties: Lane

General Location: Central Oregon Coast Range

Acres: 7,648



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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	Siuslaw National Forest
Unique Landscape Features	<p>The Rock Creek Wilderness (7,486 acres) is one of three small wilderness areas established on the Siuslaw National Forest by Act of Congress in 1984. The Rock Creek Wilderness is located in the Oregon Coast Range south of Waldport and north of Florence, Oregon. Pristine rain forest canyons run with crystalline water pouring into either Rock Creek itself in the heart of the Wilderness or Big Creek on the southern boundary. Mossy bigleaf maple and red alder hang suspended over both creeks as they make their way toward the salty waves of the Pacific Ocean. Look carefully for Oregon silverspot butterflies on the tall ridge between Rock and Big Creeks; these orange-and-brown butterflies live only here and in two other places on earth.</p> <p>Near the coast, tremendous old-growth Sitka spruce sometimes reach nine feet in diameter, giving way to old Douglas fir farther inland. Pink-blossomed rhododendron bloom in May, joining salal, salmonberry, and swordfern in their efforts to keep the ground perpetually shaded. Salmon, steelhead, and cutthroat trout migrate up creek to spawn in vast numbers. Fog cools the area almost all of every summer; and winters are snowless.</p>
Lakebed Geology Sensitivity	High
Lakebed Geology Composition	andesite dacite diorite phyllite (100%), amphibolite hornfels paragneiss undifferentiated metamorphic roc (7%), GC 1+2 (100%), GC 1+2+3 (100%), GC 4+5+6 (7%)
Visitor Use	Not reported in the database.
Mean Annual Precipitation	Not reported in the database.
Elevation Range	12 - 671 (meters)
Mean Max Aug Temp	Not reported in the database.
Mean Min Dec Temp	Not reported in the database.
Lake Acres	Not reported in the database.
Pond Acres	Not reported in the database.
Lake Count	Not reported in the database.
Pond Count	Not reported in the database.
TES Flora	Cetrelia cetrarioides, Diplophyllum plicatum, Pseudocypbellaria perpetua, Usnea longissima
TES Wildlife	Not reported in the database.
TES Fish	Not reported in the database.
Ozone Sensitive Plants	Red alder, Red elderberry
Air Quality Sensitive Lichens	Cavernularia lophyrea, Hypogymnia apinnata, Platismatia lacunosa, Usnea cornuta
Cultural Resources	Not reported in the database.
Status/Trends: Acid Deposition:	Not reported in the database.

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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:

Consider collecting resident fish (if there are any) and analyzing for mercury. Concurrently, collect water samples.

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 last round of lichens to be evaluated for trends before full credit may be received.

Visibility

Visibility Priority: Low

Visibility Receptor: Scenic Views

Visibility Indicator: Regional haze

Visibility Trends: Not reported in the database.

Visibility Actions

None.

Water

Water Priority: Low

Water Receptor: Water Chemistry

Water Indicator: ANC

Water Trends: Not reported in the database.

Water Priority 2: Medium

Water Receptor 2: Water Chemistry

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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:

Collect water samples for anions, cations, and nutrients at locations where and if fish are collected for mercury.

Challenge Points

Fauna Challenge Points: Not reported in the database.

Flora Challenge Points: 8

Total Plots: 1

Desired Plots: 1

Additional Plots Needed: 0

Data Type: Trends

Round 1 Visits: 1

Round 2 Visits: 1

Baseline %: 100

Trends %: 100

Visibility Challenge Points: Not reported in the database.

Water Challenge Points: Not reported in the database.