

## **Salmon-Huckleberry Wilderness Air Quality Report**

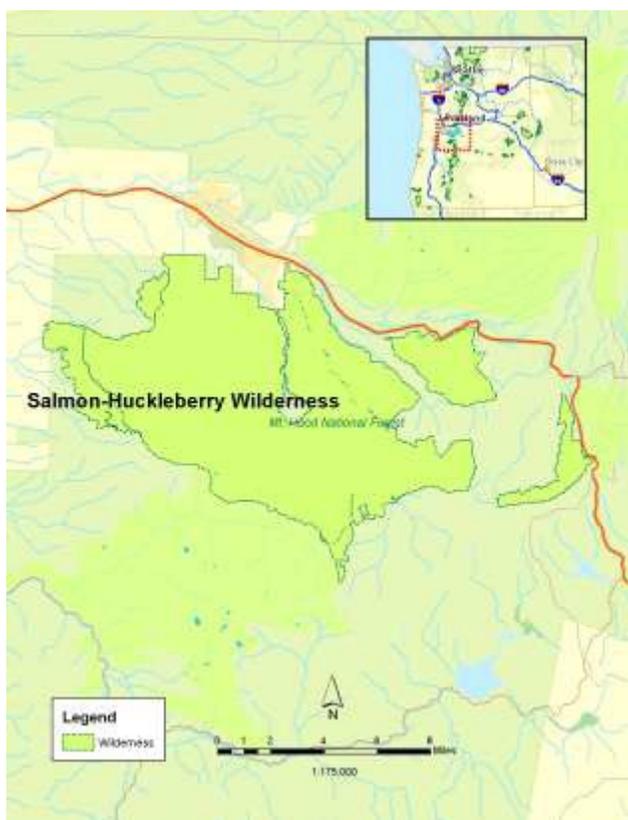
National Forest: Mount Hood National Forest

State: OR

Counties: Clackamas

General Location: Northern Oregon Cascade Range

Acres: 62,455



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Wilderness ID: 206

Wilderness Name: Salmon-Huckleberry Wilderness

Wilderness Categories	Information Specific to this Wilderness
Year Established	1984
Establishment Notes	Omnibus Public Land Management Act of 2009, Oregon Wilderness Act of 1984
Designation	Clean Air Act Class 2
Administrative	Mount Hood National Forest
Unique Landscape Features	<p>The main attraction in this Wilderness, the Salmon River provides excellent habitat for steelhead and chinook and coho salmon. The drainages of the South Fork Salmon River and Eagle Creek stand cloaked in a dense rain forest of Douglas fir, true firs, western red cedar, and western hemlock with a thick understory. Volcanic plugs, pinnacles, and cliffs distinguish the area's sharply dissected ridges.</p> <p>Much of the water in this area runs off of Huckleberry Mountain in the northern portion. To the south is Salmon Butte, a striking 4,877-foot landmark with a fine view from the top that can be reached by trail. Mule deer and black bears find winter range hidden in the area's wild off-trail country.</p> <p>The Salmon River National Recreation Trail cuts through more than 12 miles of this Wilderness, part of a trail system that totals about 70 miles. Maps typically imply that this trail parallels the river, but it actually travels several hundred feet above the banks, except for a couple of miles at the lower end of the gorge. At least five trails begin with long climbs and trace ridges with panoramic views, including the Wildcat Mountain Trail (five miles), which is probably the easiest to access.</p> <p>Although close to the Portland-metro area, and just across the highway from the popular Mt. Hood Wilderness, much of the Salmon-Huckleberry Wilderness has very little use and outstanding opportunities for primitive recreation and solitude, even on weekends.</p>
Lakebed Geology Sensitivity	High
Lakebed Geology Composition	andesite dacite diorite phyllite (99%), amphibolite hornfels paragneiss undifferentiated metamorphic roc (1%), GC 1+2 (99%), GC 1+2+3 (99%), GC 4+5+6 (1%)
Visitor Use	Not reported in the database.
Mean Annual Precipitation	Not reported in the database.
Elevation Range	412 - 1536 (meters)
Mean Max Aug Temp	Not reported in the database.
Mean Min Dec Temp	Not reported in the database.
Lake Acres	5
Pond Acres	9
Lake Count	1
Pond Count	8

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TES Flora	Allotropa virgata, Carex livida, Cortinarius olympianus, Corydalis caseana ssp. aquae-gelidae, Craterellus tubaeformis, Erigeron howellii, Gastroboletus subalpinus, Gomphus clavatus, Gymnopilus punctifolius, Hydnum umbilicatum, Hypogymnia duplicata, Hypogymnia oceanica, Leptogium rivale, Leucogaster citrinus, Leucogaster microsporus, Loxospora corallifera, Phaeocollybia kauffmanii, Phaeocollybia oregonensis, Phaeocollybia scatesiae, Ptilidium californicum, Racomitrium aquaticum, Ramaria celerivirescens, Ramaria cyaneigranosa, Ramaria stuntzii, Rhizomnium nudum, Rhizopogon parksii, Scheuchzeria palustris ssp. americana, Sowerbyella rhenana, Streptopus streptopoides, Tetraxis geniculata, Thaxterogaster pingue
TES Wildlife	Not reported in the database.
TES Fish	Not reported in the database.
Ozone Sensitive Plants	Blue elderberry, California black oak, Evening primrose, Jeffery pine, Mugwort, Ninebark, Ponderosa pine, Quaking aspen, Red alder, Red elderberry, Scoulers willow, Skunkbush, Snowberry, Thinleaf huckleberry
Air Quality Sensitive Lichens	Alectoria sarmentosa, Bryoria capillaris, Bryoria glabra, Bryoria trichodes, Cavernularia hultenii, Cladonia ochrochlora, Hypogymnia apinnata, Hypogymnia occidentalis, Nephroma helveticum subsp. sipeanum, Nodobryoria oregana, Normandina pulchella, Parmelia pseudosulcata, Parmelia squarrosa, Parmeliopsis ambigua, Parmeliopsis hyperopta, Peltigera membranacea, Platismatia norvegica, Sticta fuliginosa
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:*

Sample resident trout from the most heavily fished waters. Also, while on-site, collect water quality 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: Medium

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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. While on-site, survey sensitive vegetation for signs of ozone injury.

## **Visibility**

Visibility Priority: Medium

Visibility Receptor: Scenic Views

Visibility Indicator: Regional haze

Visibility Trends: Not reported in the database.

## **Visibility Actions**

The IMPROVE visibility monitor at Mt. Hood (MOHO1) is the closest, most representative site.

## **Water**

Water Priority: Medium

Water Receptor: Water Chemistry

Water Indicator: ANC

Water Trends: Not reported in the database.

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:**

Collect water samples for anions, cations, and nutrients from lake and potentially stream headwaters. Consider collecting fish and analyzing for mercury while on-site.

## **Challenge Points**

***Fauna Challenge Points: Not reported in the database.***

***Flora Challenge Points: 7***

Total Plots: 6

Desired Plots: 3

Additional Plots Needed: -3

Data Type: Trends

Round 1 Visits: 6

Round 2 Visits: 3

Baseline %: 192

Trends %: 96

***Visibility Challenge Points: Not reported in the database.***

***Water Challenge Points: Not reported in the database.***