

## **Roaring River Wilderness Air Quality Report**

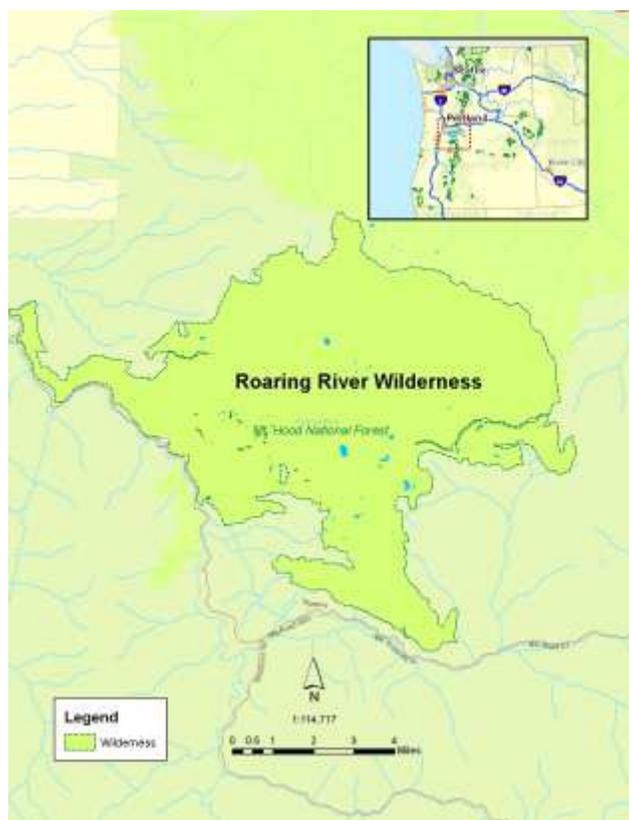
National Forest: Mount Hood National Forest

State: OR

Counties: Clackamas

General Location: Northern Oregon Cascade Range

Acres: 36,768



# Roaring River Wilderness Air Quality Report

Wilderness ID: 453

Wilderness Name: Roaring River Wilderness

Wilderness Categories	Information Specific to this Wilderness
Year Established	2009
Establishment Notes	Omnibus Public Land Management Act of 2009
Designation	Clean Air Act Class 2
Administrative	Mount Hood National Forest
Unique Landscape Features	The largest block of new wilderness designated in 2009 in Oregon is in the Roaring River Valley, a tributary of the Clackamas River. The wilderness area is named after the Roaring River that flows through the area and is a tributary of the Clackamas River. Salmon and steelhead spawn in the Roaring River and the area is thick with Bears, cougars, mule deer, elk, spotted owls and pileated woodpeckers. Lupine or Indian paintbrush are common wildflowers in summer. Lakes in the area include the Rock Lakes and Serene Lake, while Cache Meadow is one of the many alpine meadows. The wilderness has five trails -- Shining Lake, Shellrock Lake, Serene Lake, Grouse Point and Dry Ridge. Prior to designation these trails were open to use by mountain bikes.
Lakebed Geology Sensitivity	N/A
Lakebed Geology Composition	andesite dacite diorite phyllite (82%), amphibolite hornfels paragneiss undifferentiated metamorphic roc (18%), GC 1+2 (82%), GC 1+2+3 (82%), GC 4+5+6 (18%)
Visitor Use	Not reported in the database.
Mean Annual Precipitation	Not reported in the database.
Elevation Range	234 - 1571 (meters)
Mean Max Aug Temp	Not reported in the database.
Mean Min Dec Temp	Not reported in the database.
Lake Acres	40
Pond Acres	90
Lake Count	4
Pond Count	45
TES Flora	Not reported in the database.
TES Wildlife	Not reported in the database.
TES Fish	Not reported in the database.
Ozone Sensitive Plants	Not reported in the database.
Air Quality Sensitive Lichens	Not reported in the database.
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: Low

Fauna Receptor: Fish

Fauna Indicator: Concentration of methyl mercury

Fauna Trends: Not reported in the database.

### ***Fauna Actions:***

Sample resident fish for mercury in the most frequently fished lakes. While on-site, collect water quality samples for anions, cations, and nutrients.

### **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

Flora Receptor 3: Ozone

Flora Indicator 3: Visible injury on ozone-sensitive plants

Flora Trends 3: Not reported in the database.

### ***Flora Actions:***

Waiting for evaluation of trends data for both community composition and elemental analysis. Repeat visits to lichen plots on a ten year interval to monitor trends.

### **Visibility**

Visibility Priority: Low

Visibility Receptor: Scenic Views

Visibility Indicator: Regional haze

Visibility Trends: Not reported in the database.

### ***Visibility Actions***

None. Nearest IMPROVE visibility monitoring site is Mt. Hood (MOHO1).

### **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:***

Sample river and lakes for anions, cations, and nutrients.

**Challenge Points**

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

***Flora Challenge Points: 8***

Total Plots: Not reported in the database.

Desired Plots: Not reported in the database.

Additional Plots Needed: Not reported in the database.

Data Type: Not reported in the database.

Round 1 Visits: Not reported in the database.

Round 2 Visits: Not reported in the database.

Baseline %: Not reported in the database.

Trends %: Not reported in the database.

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

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