

# Mount Adams Wilderness Air Quality Report

Wilderness ID: 077

Wilderness Name: Mount Adams Wilderness

## **Mount Adams Wilderness Air Quality Report**

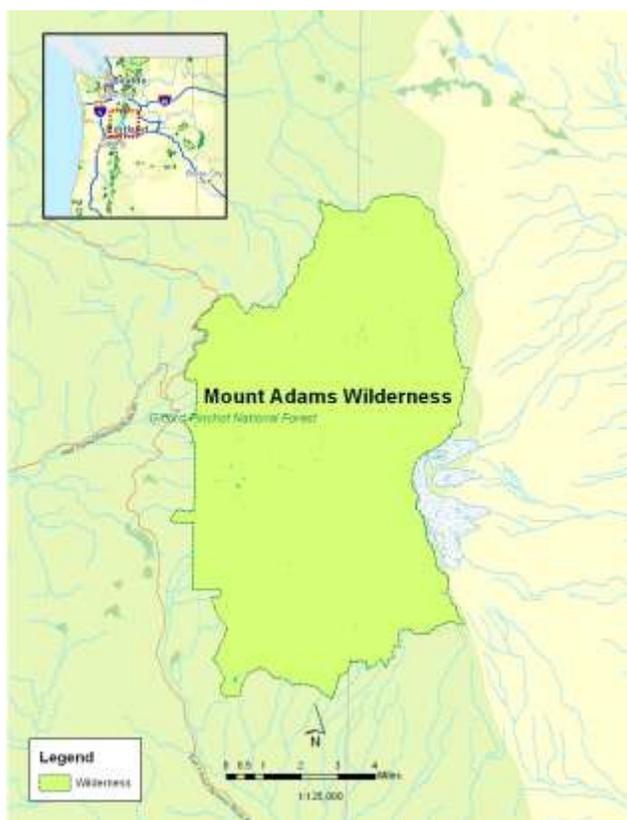
National Forest: Gifford Pinchot National Forest

State: WA

Counties: Skamania, Yakima

General Location: Southern Washington Cascade Range

Acres: 47,048



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Wilderness Categories	Information Specific to this Wilderness
Year Established	1964
Establishment Notes	The Wilderness Act of September 3, 1964, Washington State Wilderness Act of 1984
Designation	Clean Air Act Class 1
Administrative	Mt Adamns Ranger District, Gifford Pinchot National Forest
Unique Landscape Features	Second in height only to Mount Rainier statewide, 12,276-foot Mount Adams looms over at least 10 impressive glaciers and a Wilderness of forested slopes and subalpine meadows. The huge volcanic bulk of the mountain takes up a considerable portion of the Wilderness and rises to its only peak. As many as 25 climbing routes, from nontechnical to technically challenging, provide access to this very popular summit. Elevation gain is approximately 7,000 feet. Approaching the mountain from the south you will find relatively gentle terrain, a nice contrast for hikers in comparison to the treacherous ice and sharp ridges on the west and the treacherous ice and vertical cliffs on the east. The glaciated north face is less imposing. The eastern half of the mountain lies within the Yakama Indian Reservation.
Lakebed Geology Sensitivity	High
Lakebed Geology Composition	gneiss quartzite schist granite (8%), andesite dacite diorite phyllite (66%), basalt gabbro wacke argillite undifferentiated volcanic rocks (6%), amphibolite hornfels paragneiss undifferentiated metamorphic roc (20%), GC 1+2 (74%), GC 1+2+3 (80%), GC 4+5+6 (10%)
Visitor Use	Not reported in the database.
Mean Annual Precipitation	Not reported in the database.
Elevation Range	1010 - 3742 (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	61
Lake Count	Not reported in the database.
Pond Count	96
TES Flora	Hydrothyria venosa, Luzula arcuata, Microseris borealis, Sarcosoma mexicana, Spiraea splendens
TES Wildlife	Bald Eagle
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, Cavernularia hultenii, Cladonia ochrochlora, Hypogymnia apinnata, Hypogymnia occidentalis, Kaernefeltia merrillii, Nodobryoria abbreviata, Nodobryoria oregana, Parmeliopsis ambigua, Parmeliopsis hyperopta, Peltigera membranacea, Platismatia norvegica, Pseudephebe minuscula, Solorina crocea, Umbilicaria hyperborea
Cultural Resources	Not reported in the database.

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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:***

None.

### **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 Round 2 lichens to be analyzed and evaluated.

### **Visibility**

Visibility Priority: High

Visibility Receptor: Scenic Views

Visibility Indicator: Regional haze

Visibility Trends: Decrease

### ***Visibility Actions***

IMPROVE visibility monitor at White Pass (WHPA1) is representative of the Mt. Adams Wilderness. Refer to the Washington 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 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 from headwater lakes and/or streams, and analyze for anions, cations, and nutrients.

**Challenge Points**

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

***Flora Challenge Points: 8***

Total Plots: 5

Desired Plots: 2

Additional Plots Needed: -3

Data Type: Trends

Round 1 Visits: 5

Round 2 Visits: 4

Baseline %: 212

Trends %: 170

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

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