

Buckhorn Wilderness Air Quality Report

Wilderness ID: 228

Wilderness Name: Buckhorn Wilderness

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National Forest: Olympic National Forest

State: WA

Counties: Clallam, Jefferson

General Location: Olympic Peninsula

Acres: 44,319



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Wilderness Categories	Information Specific to this Wilderness
Year Established	1984
Establishment Notes	99-365, Washington State Wilderness Act of 1984
Designation	Clean Air Act Class 2
Administrative	Olympic National Forest
Unique Landscape Features	Not Reported
Lakebed Geology Sensitivity	Low
Lakebed Geology Composition	andesite dacite diorite phyllite (56%), amphibolite hornfels paragneiss undifferentiated metamorphic roc (44%), GC 1+2 (56%), GC 1+2+3 (56%), GC 4+5+6 (44%)
Visitor Use	Not Reported
Mean Annual Precipitation	Not Reported
Elevation Range	280 - 2217 (meters)
Mean Max Aug Temp	Not Reported
Mean Min Dec Temp	Not Reported
Lake Acres	Not Reported
Pond Acres	35
Lake Count	Not Reported
Pond Count	19
TES Flora	Allotropa virgata, Astragalus microcystis, Carex obtusata, Draba breweri var. cana, Draba juvenilis, Galerina atkinsoniana, Lobaria linita, Pellaea breweri, Peltigera pacifica, Ptilidium californicum, Rhizopogon parksii, Synthyris pinnatifida var. lanuginosa
TES Wildlife	Bald Eagle, Northern Spotted Owl, Peregrine Falcon
TES Fish	Not Reported
Ozone Sensitive Plants	Not Reported
Air Quality Sensitive Lichens	Alectoria imshaugii, Alectoria sarmentosa, Hypogymnia apinnata, Nodobryoria oregana, Parmeliopsis ambigua, Parmeliopsis hyperopta, Platismatia norvegica, Vulpicida canadensis
Cultural Resources	Not Reported
Status/Trends: Acid Deposition:	Not Reported
Status/Trends: Nutrient Enrichment:	Not Reported
Status/Trends: Ozone Impacts:	Not Reported

AQRV's

Fauna

Fauna Priority: Medium

Fauna Receptor: Fish

Fauna Indicator: Concentration of methyl mercury

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Fauna Trends: Not Reported

Fauna Actions:

If TES species are eating fish from ponds, then collect fish and analyze for mercury content.

Flora

Flora Priority: High

Flora Receptor: Lichens

Flora Indicator: Changes in community composition

Flora Trends: Not Reported

Flora Priority 2: Not Reported

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

Flora Priority 3: Medium

Flora Receptor 3: Ozone

Flora Indicator 3: Visible injury on ozone-sensitive plants

Flora Trends 3: Not Reported

Flora Actions:

Repeat visits to 2 lichen plots at 10 year intervals. Consider sampling vegetation for ozone injury while at lichen plots.

Visibility

Visibility Priority: Low

Visibility Receptor: Scenic Views

Visibility Indicator: Regional haze

Visibility Trends: Decrease

Visibility Actions

Site best represented by OLYM1 IMPROVE monitoring site.

Water

Water Priority: Medium

Water Receptor: Water Chemistry

Water Indicator: ANC

Water Trends: Not Reported

Water Priority 2: High

Water Receptor 2: Water Chemistry

Water Indicator 2: DIN: TP

Water Trends 2: Not Reported

Water Priority 3: Medium

Water Receptor 3: Diatoms

Water Indicator 3: Community Composition

Water Trends 3: Not Reported

Water Actions:

Repeat visit to No Name Lake for ANC and nutrient ratios.

Challenge Points

Fauna Challenge Points: Not Reported

Flora Challenge Points: 6

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Total Plots: 4

Desired Plots: 2

Additional Plots Needed: -2

Data Type: Baseline

Round 1 Visits: 0

Round 2 Visits: 4

Baseline %: 181

Trends %: 0

Visibility Challenge Points: Not Reported

Water Challenge Points: 5