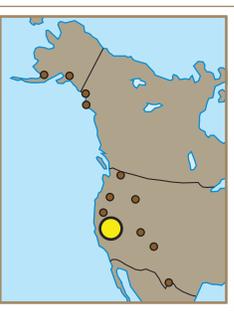


Yosemite National Park: Summary



YOSE

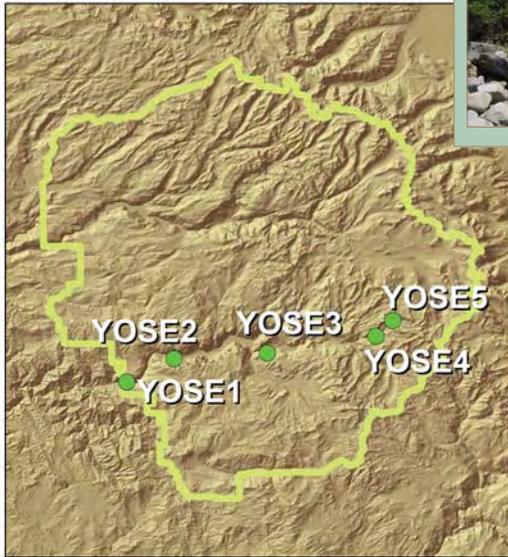
YOSE1
Hwy 140 park boundary
Location: 37.68N 119.75W
Elevation: 661 m
Ave. Ann. Temp: 12.1°C
Ave. Ann. Precip: 87 cm
Air Sampler: No
Conifer: *Pinus sabiniana*
Lichen: *Xanthoparmelia*



YOSE2
Turtleback Dome
Location: 37.72N 119.68W
Elevation: 1433 m
Ave. Ann. Temp: 10.7°C
Ave. Ann. Precip: 92 cm
Air Sampler: No
Conifer: *Pinus ponderosa*
Lichen: *Letharia vulpina*



YOSE3
Nevada Falls
Location: 37.72N 119.53W
Elevation: 1829 m
Ave. Ann. Temp: 10.3°C
Ave. Ann. Precip: 104 cm
Air Sampler: No
Conifer: *Pinus lambertiana*
Lichen: *Letharia vulpina*



0 5 10 20 30 40 Kilometers

YOSE4
Lewis Creek at Cony Crag
Location: 37.75N 119.36W
Elevation: 2713 m
Ave. Ann. Temp: 4.2°C
Ave. Ann. Precip: 112 cm
Air Sampler: No
Conifer: *Pinus contorta*
Lichen: None



YOSE5
Lewis-Gallison Creek confluence
Location: 37.77N 119.34W
Elevation: 3048 m
Ave. Ann. Temp: 3.1°C
Ave. Ann. Precip: 109 cm
Air Sampler: Yes
Conifer: *Pinus contorta*
Lichen: None



Air Summary

- Air was sampled at YOSE5.
- Concentrations of all SOCs detected, except PAHs (97 pg/g dry XAD), ranked above medians for the 20 parks. CUPs detected were dacthal (36), endosulfans (413); HUPs detected were a-HCH (120), g-HCH (33), and chlordanes (30).

Vegetation Summary

- The dominant SOCs were PAHs (517-19,326 ng/g lipid), the CUPs endosulfans (10-474), dacthal (30-350), and chlorpyrifos (4-31), and the HUPs DDTs (10-72) and HCB (3-32), all of which were at or well above medians for the 20 WACAP parks. Low concentrations of trifluralins (<1), g-HCH (1-9), and PCBs (0.1-7) were also detected.
- SOC concentrations were about 10x higher in lichens than conifers.
- A strong elevational effect was observed in lichens: concentrations of endosulfans, dacthal, HCHs, and PCBs increased by one-half to one order of magnitude, from 660 to 1830 m.
- Pine, the only conifer genus sampled in YOSE, appears to be a poor accumulator of SOCs compared with spruce, fir, and hemlock sampled in other west coast parks; had these species been collected, total pesticides would probably have ranked intermediate compared with concentrations in LAVO and SEKI, as did the lichen data.
- Lichen nitrogen concentrations were at or slightly above uppermost Pacific Northwest background ranges, indicating potential enhancement of depositional nitrogen.

