



## Hydrologic Benchmark Network Stations in the Western U.S. 1963-95 (USGS Circular 1173-D)

# References Cited

Alexander, R.B., Ludtke, A.S., Fitzgerald, K.K., Briel, L.I., and Schertz, T.L., 1996, Data from the U.S. Geological Survey national stream water-quality monitoring networks (WQNATNET) on CD-ROM: U.S. Geological Survey Open-File Report 96-337 and Digital Data Series DDS-37, 79 p.

Andrews, E.D., and Erman, D.C., 1986, Persistence in the size distribution of surficial bed material during an extreme snowmelt flood: *Water Resources Research*, v. 22, no. 2, p. 191-197.

Bachmann, S.A., 1994, Hydrology of a subalpine wetland complex in Rocky Mountain National Park, Colorado: Fort Collins, Colorado State University, Master's thesis.

Bacon, C.R., and Lanphere, M.A., 1990, The geologic setting of Crater Lake, Oregon, in Drake, E.T., Larson, G.L., Dymond, Jack, and Collier Robert, eds., *Crater Lake-An ecosystem study*: San Francisco, American Association for the Advancement of Science, p. 19-27.

Bailey, R.G., Avers, P.E., King, T., McNab, W.H., eds., 1994, *Ecoregions and subregions of the United States with supplementary table of map unit descriptions*: Washington, D.C., U.S. Department of Agriculture, Forest Service, scale 1:7,500,000.

Barnes, Ivan, 1964, Field measurement of alkalinity and pH: U.S. Geological Survey Water-Supply Paper 1535-H, 17 p.

Bateman, P.C., 1992, Plutonism in the central part of the Sierra Nevada Batholith, California: U.S. Geological Survey Professional Paper 1483, 186 p.

Bauer, D.J., Foster, B.J., Joyner, J.D., and Swanson, R.A., 1996, Water resources data, Nevada, water year 1995: U.S. Geological Survey Water-Data Report NV-95-1, 734 p.

Berenbrock, Charles, 1993, Effects of well discharge on hydraulic heads in and spring discharge from the geothermal aquifer system in the Bruneau area, Owyhee County, southwestern Idaho: U.S. Geological Survey Water- Resources Investigations Report 93-4001, 58 p.

- Biesecker, J.E., and Leifeste, D.K., 1975, Water quality of hydrologic bench marks-An indicator of water quality in the natural environment: U.S. Geological Survey Circular 460-E, 21 p.
- Birkeland, P.W., 1963, Pleistocene volcanism and deformation of the Truckee area, north of Lake Tahoe, California: Geological Society of America Bulletin, v. 74, no. 12, p. 1453-1463.
- Birkeland, P.W., 1964, Pleistocene glaciation of the northern Sierra Nevada, north of Lake Tahoe, California: Journal of Geology, v. 72, no. 6, p. 810-825.
- Blake, M.C., Jr., Jayko, A.S., and McLaughlin, R.J., 1985, Tectonostratigraphic terranes of the northern Coast Ranges, California, in Howell, D.G., ed., Tectonostratigraphic terranes of the circumpacific region: Houston, Circumpacific Council for Energy and Mineral Resources, p. 159-171.
- Brem, G.F., John, D.A., Nash, J.T., Poole, F.G., and Snyder, D.B., 1991, Mineral resources of the Arc Dome Wilderness Recommendation Area, Nye County, Nevada: U.S. Geological Survey Bulletin 1961, 21 p.
- Brennan, T.S., O'Dell, I., Lehmann, A.K., and Tungate, A.M., 1996, Water resources data, Idaho, water year 1995- v. 2, Upper Columbia River Basin and Snake River Basin below King Hill: U.S. Geological Survey Water-Data Report ID-95-2, 357 p.
- Buell, G.R., 1985, The hydrologic benchmark program-A standard to evaluate time-series trends in selected water-quality constituents for streams in Georgia:U.S. Geological Survey Water-Resources Investigations Report 84-4318, 36 p.
- Burnett, J.L., and Jennings, C.W., 1962, Geologic map of California, Chico sheet: Sacramento, California, Department of Natural Resources, Division of Mines and Geology, scale 1:250,000.
- Clow, D.W., Mast, M.A., and Campbell, D.H., 1996, Controls on surface water chemistry in the upper Merced River Basin, Yosemite National Park, California: Hydrological Processes, v. 10, p. 727-746.
- Cobb, E.D., and Biesecker, J.E., 1971, The National Hydrologic Benchmark Network: U.S. Geological Survey Circular 460-D, 38 p.
- Cole, D.N., 1982, Vegetation of two drainages in Eagle Cap Wilderness, Wallowa Mountains, Oregon: Ogden, Utah, U.S. Department of Agriculture Forest Service, Intermountain Forest and Range Experiment Station, Research Paper INT-288, 26 p.
- Collier, Robert, Dymond, Jack, McManus, James, and Lupton, John, 1990, Chemical and physical properties of the water column at Crater Lake, Oregon, in Drake, E.T., Larson,

G.L., Dymond, Jack, and Collier Robert, eds., Crater Lake-An ecosystem study: San Francisco, American Association for the Advancement of Science, p. 69-80.

Drake, E.T., Larson, G.L., Dymond, Jack, and Collier, Robert, 1990, Crater Lake-An ecosystem study: San Francisco, American Association for the Advancement of Science, 221 p.

Drewes, Harald, 1967, Geology of the Connors Pass quadrangle, Schell Creek Range, east-central Nevada; stratigraphy and structure of a complexly deformed area in the Basin and Range province, and an evaluation of the tectonic environment in which it was developed: U.S. Geological Survey Professional Paper 557, 93 p.

Durum, W.H., 1978, Historical profile of quality of water laboratories and activities, 1879-1973: U.S. Geological Survey Open-File Report 78-432, 235 p.

Dymond, Jack, and Collier, Robert, 1990, The chemistry of Crater Lake sediments- Definition of sources, in Drake, E.T., Larson, G.L., Dymond, Jack, and Collier Robert, eds., Crater Lake-An ecosystem study: San Francisco, California, American Association for the Advancement of Science, p. 41-60.

Ehleringer, J.R., Arnow, L.A., Arnow, T., McNulty, I.B., and Negus, N.C., 1992, Red Butte Canyon Research Natural Area-History, flora, geology, climate, and ecology: Great Basin Naturalist, v. 52, no. 2, p. 95-121.

Erman, D.C., Andrews, E.D., and Yoder-Williams, M.P., 1988, Effects of winter floods on fishes in the Sierra Nevada: Canadian Journal of Fisheries and Aquatic Sciences, v. 45, no. 12, p. 2195-2200.

Feth, J.H., 1981, Chloride in natural continental water-A review: Washington, D.C., Government Printing Office, 30 p.

Fishman, M.J., and Friedman, L.C., 1989, Methods for determination of inorganic substances in water and fluvial sediments: U.S. Geological Survey Techniques of Water-Resources Investigations, book 5, chap. A1, 545 p.

Fishman, M.J., Raese, J.W., Gerlitz, C.N., and Husband, R.A., 1994, U.S. Geological Survey approved inorganic and organic methods for the analysis of water and fluvial sediment, 1954-94: U.S. Geological Survey Open-File Report 94-351, 55 p.

Friebel, M.F., Trujillo, L.F., and Markham, K.L., 1996, Water resources data, California, water year 1995-v. 2, Pacific Slope Basins from Arroyo

Grande to Oregon State Line except Central Valley: U.S. Geological Survey Water-Data Report CA-95-2, 339 p.

Gregory, S.V., Wildman, R.C., Ashkenas, L.R., and Lamberti, G.A., 1990, The ecology and chemistry of caldera springs of Crater Lake National Park, in Drake, E.T., Larson, G.L., Dymond, Jack, and Collier Robert, eds., Crater Lake-An ecosystem study: San Francisco, American Association for the Advancement of Science, p. 81-90.

Gribbs, A.B., 1973, Geologic map of the Spokane quadrangle, Washington, Idaho, and Montana: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-768, scale 1:250,000.

Hainly, R.A., and Ritter, J.R., 1986, Areal and temporal variability of selected water-quality characteristics in two hydrologic benchmark basins in the northeastern United States: U.S. Geological Survey Water-Resources Investigations Report 85-4025, 22 p.

Hayes, P.D., Rockwell, G.L., and Anderson, S.W., 1996, Water resources data, California, water year 1995-v. 3, Southern Central Valley Basins and The Great Basin from Walker River to Truckee River: U.S. Geological Survey Water-Data Report CA-95-3, 508 p.

Herring, M.L., 1991, The old-growth forest-A community of equals: Pacific Discovery, v. 44, no. 4, p. 8-17.

Herring, M.L., 1997, Heath and Marjorie Angelo Coast Range Preserve: Oakland, University of California, 8 p.

Hirsch, R.M., Slack, J.R., and Smith, R.A., 1982, Techniques of trend analysis for monthly water-quality data: Water Resources Research, v. 18, no. 1, p. 107-121.

Hubbard, L.E., Herrett, T.A., Poole, J.E., Ruppert, G.P., and Courts, M.L., 1996, Water resources data, Oregon, water year 1995: U.S. Geological Survey Water-Data Report OR-95-1, 452 p.

Huber, N.K., 1987, The geologic story of Yosemite National Park: U.S. Geological Survey, 64 p.

Hudson, F.S., 1951, Mount Lincoln-Castle Peak area, Sierra Nevada, California: Geological Society of America Bulletin, v. 62, p. 931-952.

Huntington, G.L., and Akison, M.A., 1987, Pedologic investigations in support of acid rain studies, Sequoia National Park, California-Soil resource inventory of Sequoia National Park, central part: Davis, Department of Land, Air and Water Resources, University of California, 171 p.

Jayko, A.S., Blake, M.C., Jr., McLaughlin, R.J., Ohlin, H.N., Ellen, S.D., and Kelsey, H., 1989, Reconnaissance geologic map of the Covelo 30- by 60-minute quadrangle, northern California: U.S. Geological Survey Miscellaneous Field Studies Map MF-2001, scale 1:100,000.

Johnson, C.M., and Needham, P.R., 1966, Ionic composition of Sagehen Creek, California, following an adjacent fire: *Ecology*, v. 47, no. 4, p. 636-639.

Johnsson, P.A., and Barringer, J.L., 1993, Water quality and hydrogeochemical processes in McDonalds Branch Basin, New Jersey Pinelands, 1984-1988: U.S. Geological Survey Water-Resources Investigations Report 91-4081, 111 p.

Kauffman, D.F., and Bonnicksen, Bill, 1990, Geologic map of the Little Jacks Creek, Big Jacks Creek, and Duncan Creek Wilderness study areas, Owyhee County, Idaho: U.S. Geological Survey Miscellaneous Field Studies Map MF-2142, scale 1:50,000.

Kuennen, L.J., and Nielsen-Gerhardt, M.L., 1995, Soil survey of Kootenai National Forest area, Montana and Idaho: Washington D.C., U.S. Department of Agriculture Forest Service, 118 p.

Larson, D.W., 1990, Status of the ten-year limnological study of Crater Lake, Crater Lake National Park, in Drake, E.T., Larson, G.L., Dymond, Jack, and Collier Robert, eds., *Crater Lake-An ecosystem study*: San Francisco, American Association for the Advancement of Science, p. 7-18.

Larson, D.W., Dahm, C.N., and Geiger, N.S., 1990, Limnological response of Crater Lake to possible long-term sewage influx, in Drake, E.T., Larson, G.L., Dymond, Jack, and Collier Robert, eds., *Crater Lake-An ecosystem study*: San Francisco, American Association for the Advancement of Science, p. 197-212.

Larson, G.L., McIntire, C.D., Hurley, M., and Buktenica, M., 1996, Temperature, water chemistry, and optical properties of Crater Lake: *Lake and Reservoir Management*, v. 12, no. 2, p. 230-247.

Larson, G.L., McIntire, C.D., and Jacobs, R.W., eds., 1993, *Crater Lake limnological studies, final report*: U.S. Department of the Interior, National Park Service Technical Report NPS/PNROSU/NRTR-93/03.

Lawrence, C.L., 1987, Streamflow characteristics at hydrologic benchmark stations: U.S. Geological Survey Circular 941, 123 p.

Leopold, L.B., 1962, A national network of hydrologic benchmarks: U.S. Geological Survey Circular 460-B, 4 p.

Lindgren, Waldemar, 1897, Description of the Truckee quadrangle, California: U.S. Geological Survey Geological Atlas Folio 39, scale 1:125,000.

Lins, H.F., 1986, Recent patterns of sulfate variability in pristine streams: *Atmospheric Environment*, v. 20, no. 2, p. 367-375.

Lord, D.G., Barringer, J.L., Johnsson, P.A., Schuster, P.A., Walker, R.L., Fairchild, J.E., Sroka, B.N., and Jacobsen, Eric, 1990, Hydrogeochemical data from an acidic deposition study at McDonalds Branch Basin in the New Jersey Pinelands, 1983-1986: U.S. Geological Survey Open-File Report 88-500, 124 p.

Lynch, J.A., Grimm, J.W., and Bowersox, V.C., 1995, Trends in precipitation chemistry in the United States-A national perspective, 1980-1992: *Atmospheric Environment*, v. 29, no. 11, p. 1231-1246.

McLaughlin, R.J., Kling, S.A., Poore, R.Z., McDougall, K., and Beutner, E.C., 1982, Post-middle Miocene accretion of Franciscan rocks, northwestern California: *Geological Society of America Bulletin*, v. 93, no. 12, p. 595-605.

Melack, J.M., and Stoddard, J.L., 1991, Sierra Nevada, California, in Charles, D.F., ed., *Acidic deposition and aquatic ecosystems-Regional case studies*: New York, Springer-Verlag, p. 503-530.

Murdoch, P.S., 1991, Chemical budgets and stream-chemistry dynamics of a headwater stream in the Catskill Mountains of New York, October 1, 1983, through September 30, 1985: U.S. Geological Survey Water-Resources Investigations Report 88-4035, 66 p.

Murdoch, P.S., and Stoddard, J.L., 1993, The role of nitrate in the acidification of streams in the Catskill Mountains of New York: *Water Resources Research*, v. 28, no. 10, p. 2707-2720.

Nathenson, Manuel, and Thompson, J.M., 1990, Chemistry of Crater Lake, Oregon, and nearby springs in relation to weathering, in Drake, E.T., Larson, G.L., Dymond, Jack, and Collier Robert, eds., *Crater Lake-An ecosystem study*: San Francisco, American Association for the Advancement of Science, p. 115-126.

National Climatic Data Center, 1997, Summary of the day: Boulder, Colorado, EarthInfo Incorporated, CD-ROM.

Nelson, P.O., 1991, Cascade Mountains, in Charles, D.F., ed., *Acidic deposition and aquatic ecosystems-Regional case studies*: New York, Springer-Verlag, p. 531-566.

Nelson, P.O., Reilly, J.F., and Larson, G.L., 1993, Bulk atmospheric deposition, in Larson, G.L., McIntire, C.D., and Jacobs, R.W., eds., *Crater Lake limno-logical studies final report*: U.S. Department of the Interior, National Park Service Technical Report NPS/PNROSU/NRTR-93/03, p. 195-204.

Nelson, P.O., Reilly, J.F., and Larson, G.L., 1996, Chemical solute mass balance of Crater Lake, Oregon: *Lake and Reservoir Management*, v. 12, no. 2, p. 248-258.

Noe, H.R., 1991, Soil survey of Elmore County, Idaho, parts of Elmore, Owyhee, and Ada Counties: Boise, U.S. Department of Agriculture Soil Conservation Service, 500 p.

- Ogle, B.A., 1953, Geology of the Eel River area, Humboldt County, California: California Division of Mines Bulletin 164, 128 p.
- Peden, M.E., 1983, Sampling, analytical, and quality assurance protocols for the National Atmospheric Deposition Program, in Campbell, S.A., ed., Sampling and analysis of rain: Philadelphia, ASTM STP 823, p. 72-83.
- Peters, N.E., 1991, Chloride cycling in two forested lake watersheds in the west-central Adirondack Mountains, New York, U.S.A.: Water, Air, and Soil Pollution, v. 59, p. 201-215.
- Redmond, K.T., 1990, Crater Lake climate and lake level variability, in Drake, E.T., Larson, G.L., Dymond, Jack, and Collier Robert, eds., Crater Lake-An ecosystem study: San Francisco, American Association for the Advancement of Science, p. 127-142.
- ReMillard, M.D., Birdwell, G.A., Lockner, T.K., Herbert, L.R., Allen, D.V., Canny, D.D., 1996, Water resources data, Utah, water year 1995: U.S. Geological Survey Water-Data Report UT-95-1, 321 p.
- Richmond, G.M., and Fullerton, D.S., 1986, Summation of Quaternary glaciations in the United States of America: Quaternary Science Review, v. 5, p. 183-196.
- Ruggiero, L.F., 1991, Wildlife and vegetation of unmanaged Douglas-fir forests: U.S. Department of Agriculture Forest Service, Pacific Northwest Research Station, 533 p.
- Rundel, P.W., Parsons, D.J., and Gordon, D.T., 1977, Montane and subalpine vegetation of the Sierra Nevada and Cascade Ranges, in Barbour, M.G., and Major, J., eds., Terrestrial vegetation of California: New York, Wiley, p. 559-599.
- Schertz, T.L., Alexander, R.B., and Ohe, D.J., 1991, The computer program Estimate Trend (ESTREND), a system for the detection of trends in water-quality data: U.S. Geological Survey Water-Resources Investigations Report 91-4040, 60 p.
- Schertz, T.L., Wells, F.C., and Ohe, D.J., 1994, Sources of trends in water-quality data for selected streams in Texas, 1975-89 water years: U.S. Geological Survey Water-Resources Investigations Report 94-4213, 49 p.
- Simpson, R.G., 1974, Selected hydrologic data, Sagehen Creek Basin near Truckee, California, 1954-1972: U.S. Geological Survey, U.S. Geological Survey Water-Resources Investigations Report 55-73, 50 p.
- Slack, J.R., Lumb, A.M., and Landwehr, J.M., 1993, Streamflow data set, 1874-1988: U.S. Geological Survey Water-Resources Investigation Report 93-4076, 1 CD- ROM.

Smith, C.F., Duet, N.R., Fisk, G.G., McCormack, H.F., Partin, C.K., Pope, G.L., Rigas, P.D., and Tadayon, S., 1996, Water resources data, Arizona, water year 1995: U.S. Geological Survey Water-Data Report AZ-95-1, 306 p.

Smith, R.A., and Alexander, R.B., 1983, Evidence for acid-precipitation-induced trends in stream chemistry at hydrologic benchmark stations: U.S. Geological Survey Circular 910, 12 p.

Sorenson, S.K., and Hoffman, R.J., 1981, Water-quality assessment of the Merced River, California, in the 1977 water year: U.S. Geological Survey Water-Resources Investigation Report 80-75, 37 p.

Staatz, M.H., 1971, Mineral resources of the Pasayten Wilderness Area, Washington: U.S. Geological Survey Bulletin 1325, 255 p.

Stephenson, N.L., 1988, Climatic control of vegetation distribution-The role of the water balance with examples from North America and Sequoia National Park, California: Ithaca, Cornell University, Ph.D. dissertation.

Stoddard, J.L., and Murdoch, P.A., 1991, Catskill Mountains, in Charles, D.F., ed., Acidic deposition and aquatic ecosystems-Regional case studies: New York, Springer-Verlag, p. 237-272.

Thompson, J.M., White, L.D., and Nathenson, Manuel, 1987, Chemical analyses of waters from Crater Lake, Oregon and nearby springs: U.S. Geological Survey Open-File Report 87-587, 16 p.

Turk, J.T., and Spahr, N.E., 1991, Rocky Mountains, in Charles, D.F., ed., Acidic deposition and aquatic ecosystems-Regional case studies: New York, Springer-Verlag, p. 48-92.

Underwood, M.B., 1983, Depositional setting of the Paleocene Yager Formation, northern Coast Ranges of California, in Larue, D.K., and Steel, R., eds., Cenozoic marine sedimentation, Pacific margin, USA: Los Angeles, Society of Economic Paleontologists and Mineralogists, Pacific Section, p. 81-101.

U.S. Department of Agriculture, 1986a, Final environmental impact statement for the Humboldt National Forest land and resource management plan: Ogden, Utah, U.S. Department of Agriculture Forest Service, Intermountain Region.

U.S. Department of Agriculture, 1986b, Land and resource management plan, final environmental impact statement, Toiyabe National Forest: Ogden, Utah, U.S. Department of Agriculture Forest Service, Intermountain Region.

U.S. Department of Agriculture, 1987a, Final environmental impact statement for the forest plan, Idaho Panhandle National Forests: Missoula, Mont., U.S. Department of Agriculture Forest Service, Northern Region.

U.S. Department of Agriculture, 1987b, Forest plan, Idaho Panhandle National Forests: Missoula, Mont., U.S. Department of Agriculture Forest Service, Northern Region.

U.S. Department of Agriculture, 1989, Final environmental impact statement, land and resource management plan, Okanogan National Forest: Portland, Oreg., U.S. Department of Agriculture Forest Service, Pacific Northwest Region.

U.S. Department of Agriculture, 1990a, Final environmental impact statement for the South Twin Load mining and development proposal, Nye County, Nevada: Ogden, Utah, U.S. Department of Agriculture Forest Service, Intermountain Region.

U.S. Department of Agriculture, 1990b, Land and resource management plan-Wallowa-Whitman National Forest: Portland, Oreg., U.S. Department of Agriculture Forest Service, Pacific Northwest Region.

U.S. Department of Agriculture, 1995, Eagle Cap Wilderness-Minam Wild and Scenic River-Environmental assessment: Baker City, Wash., U.S. Department of Agriculture Forest Service, Wallowa-Whitman National Forest, 149 p.

U.S. Department of the Interior, 1989, Jacks Creek Wilderness environmental impact statement: Boise, Idaho, U.S. Department of the Interior, Bureau of Land Management.

U.S. Department of the Interior, 1992, Great Basin National Park, Nevada-Final, general management plan, development concept plans, environmental impact statement: Denver, U.S. Department of the Interior, National Park Service, 434 p.

U.S. Department of the Interior, 1995, Crater Lake National Park, Oregon-Final development concept plan/amendment to the general management plan, environmental impact statement: Denver, U.S. Department of the Interior, National Park Service.

Van Denburgh, A.S., 1968, Chemistry of the lakes: U.S. Geological Survey Professional Paper 1005, p. 58-60.

Van Horn, Richard, and Crittenden, M.D., Jr., 1987, Map showing surficial units and bedrock geology of the Fort Douglas quadrangle and parts of the Mountain Dell and Salt Lake City North quadrangles, Davis, Salt Lake, and Morgan Counties, Utah: U.S. Geological Survey Miscellaneous Investigations Series Map I-1762, scale 1:24,000.

Weis, P.L., Gualtieri, J.L., Cannon, W.F., Tuckek, E.T., McMahan, A.B., and Federspiel, F.E., 1976, Mineral resources of the Eagle Cap Wilderness and adjacent areas, Oregon: U.S. Geological Survey Bulletin 1385-E, 100 p.

Weisel, C.J., 1981, Soil survey of Kootenai County area, Idaho: Washington, U.S. Department of Agriculture, Soil Conservation Service, 255 p.

Wiggins, W.D., Ruppert, G.P., Smith, R.R., Read, L.L., Hubbard, L.E., and Courts, M.L., 1996, Water resources data, Washington, water year 1995: U.S. Geological Survey Water-Data Report WA-95-1, 456 p.

Winters, R.A., and Leszykowski, A.M., 1986, Mineral resources of the Big Jacks Creek study area, Owyhee County, Idaho: Spokane, Wash., U.S. Bureau of Mines Open File Report 49-86, 9 p.

Woodward, Lowell, 1974, Soil survey of Salt Lake area, Utah: Washington, U.S. Department of Agriculture Soil Conservation Service, 132 p.

Wrucke, C.T., and Conway, C.M., 1987, Geologic map of the Mazatzal Wilderness and contiguous roadless area, Gila, Maricopa, and Yavapai Counties, Arizona: U.S. Geological Survey Open-File Report 87-664, 22 p.

Wrucke, C.T., Marsh, S.P., Conway, C.M., Ellis, C.E., Kulik, D.M., Moss, C.K., and Raines, G.L., 1983, Mineral resource potential of the Mazatzal Wilderness and contiguous roadless area, Gila, Maricopa, and Yavapai Counties, Arizona: U.S. Geological Survey Miscellaneous Field Studies Map MF-1573-A, 15 p.

Young, H.W., and Lewis, R.E., 1982, Hydrology and geochemistry of thermal ground water in southwestern Idaho and north-central Nevada: U.S. Geological Survey Professional Paper 1044-J, 20 p.