



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

Appendix A. List of Map References

1. Wet Bottom Creek near Childs, Arizona (Station 09508300)

a. U.S. Geological Survey Topographic Maps:

- Cypress Butte, Arizona (1:24,000), 1967
- Table Mountain, Arizona (1:24,000), 1967
- Wet Bottom Mesa, Arizona (1:24,000), 1967, HBN gaging station on this quadrangle
- Payson, Arizona (1:100,000), 1981

b. Geologic Maps:

- 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., scale 1:48,000.
- 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., scale 1:48,000.

c. Miscellaneous Maps

- U.S. Department of Agriculture, 1985, Tonto National Forest land and resource management planning: Albuquerque, U.S. Department of Agriculture Forest Service, Southwestern Region, scale 1:126,720.
- U.S. Department of Agriculture, 1986, Mazatzal Wilderness, Tonto National Forest: Albuquerque, U.S. Department of Agriculture Forest Service, Southwestern Region, scale 1:63,360.
- U.S. Department of Agriculture, 1991, Tonto National Forest, Arizona: Albuquerque, U.S. Department of Agriculture Forest Service, Southwestern Region, scale 1:126,720.

2. Elder Creek near Branscomb, California (Station 11475560)

a. U.S. Geological Survey Topographic Maps:

- Cahto Peak, California (1:24,000), 1967
- Lincoln Ridge, California (1:24,000), 1966, HBN gaging station on this quadrangle
- Covelo, California (1:100,000), 1981

b. Geologic Maps:

- Collins, K.A., 1979, Geology of the Northern Coast Range Preserve, Mendocino County, California: The Natural Conservancy, 44 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.

c. Soil Surveys:

- U.S. Department of Agriculture, 1991, Soil survey of Mendocino County, eastern part, and Trinity County, southwestern part, California: U.S. Department of Agriculture Soil Conservation Service in cooperation with U.S. Department of Agriculture Forest Service.

d. Miscellaneous Maps:

- Herring, M.L., 1997, Heath and Marjorie Angelo Coast Range Reserve: Oakland, University of California, 8 p. including vegetation map.

3. Merced River at Happy Isles Bridge near Yosemite, California (Station 11264500)

a. U.S. Geological Survey Topographic Maps:

- Hetch Hetchy Reservoir, California (1:62,500), 1956
- Merced Peak, California (1:62,500), 1953
- Tuolumne Meadows, California (1:62,500), 1956
- Yosemite, California (1:62,500), 1956, HBN gaging station on this quadrangle
- Yosemite National Park and Vicinity, California (1:125,000), 1958

b. Geologic Maps:

- Bateman, P.C., Kistler, R.W., Peck, D.L., and Busacca, A.J., 1983, Geologic map of the Tuolumne Meadows Quadrangle, Yosemite National Park, California: U.S. Geological Survey Geologic Quadrangle Map GQ-1570, scale 1:24,000.

- Calkins, F.C., 1985, Bedrock geologic map of Yosemite Valley, Yosemite National Park, California: U.S. Geological Survey, Miscellaneous Investigations Series Map I-1639, scale 1:24,000.
- Huber, N.K., Bateman, P.C., and Wahrhaftig, Clyde, 1989, Geologic map of Yosemite National Park and vicinity, California: U.S. Geological Survey Miscellaneous Investigations Series Map I-1874, scale 1:125,000.
- Alpha, T.R., Wahrhaftig, Clyde, and Huber, N.K., 1987, Oblique map showing maximum extent of 20,000-year-old (Tioga) glaciers, Yosemite National Park, central Sierra Nevada, California: U.S. Geological Survey Miscellaneous Investigations Series Map I-1885, scale varies with direction, vertical scale 2X the horizontal scale.

c. Miscellaneous Maps:

- Alpha, T.R., 1991, Oblique map of Yosemite Valley, Yosemite National Park, central Sierra Nevada, California: U.S. Geological Survey Miscellaneous Investigations Series Map I-2149, scale 1:31,000.
- U.S. Department of the Interior, 1970, Map of Yosemite Valley, Yosemite National Park and Wilderness, California, Mariposa County: U.S. Geological Survey, scale 1:24,000 [shaded relief map].
- U.S. Department of the Interior, 1997, Draft Yosemite Valley implementation plan supplemental environmental impact statement: Yosemite National Park, U.S. Department of the Interior National Park Service, 30 maps.

4. Sagehen Creek near Truckee, California (Station 10343500)

a. U.S. Geological Survey Topographic Maps:

- Hobart Mills, California (1:24,000), 1981, HBN gaging station on this quadrangle
- Independence Lake, California (1:24,000), 1981
- Truckee, California (1:100,000), 1977

b. Geologic Maps:

- Burnett, J.L., and Jennings, C.W., 1962, Geologic map of California, Chico sheet: Sacramento, California Departments of Natural Resources, Division of Mines and Geology, scale 1:250,000.
- Lindgren, Waldemar, 1897, Description of the Truckee quadrangle, California: U.S. Geological Survey Geologic Atlas Folio 39, scale 1:125,000.

c. Soil Surveys:

- Brittan, L.A., 1975, Soil survey of Nevada County area, California: Washington, U.S. Department of Agriculture Soil Conservation Service and Forest Service, 105 p.

d. Miscellaneous Maps:

- U.S. Department of Agriculture, 1983, Tahoe National Forest: San Francisco, U.S. Department of Agriculture Forest Service, Pacific Southwest Region, scale 1:126,720.

5. Big Jacks Creek near Bruneau, Idaho (Station 13169500)

a. U.S. Geological Survey Topographic Maps:

- Little Valley, Idaho (1:24,000), 1979, HBN gaging station on this quadrangle
- Glens Ferry, Idaho (1:100,000), 1989
- Riddle, Idaho (1:100,000), 1989
- Sheep Creek, Idaho (1:100,000), 1989
- Triangle, Idaho (1:100,000), 1989

b. Geologic Maps:

- 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.
- McIntyre, D.H., 1987, Mineral resources of the Little Jacks Creek, Big Jacks Creek, and Duncan Creek Wilderness study areas, Owyhee County, Idaho: U.S. Geological Survey Bulletin 1720.

c. Soil Surveys:

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

d. Miscellaneous Maps:

- U.S. Department of the Interior, 1989, Jacks Creek Wilderness final environmental impact statement: Boise, Idaho, U.S. Department of the Interior Bureau of Land Management, vegetation maps, scale 1:211,000.

6. Hayden Creek below North Fork, near Hayden Lake, Idaho (Station 12416000)

a. U.S. Geological Survey Topographic Maps:

- Athol, Idaho (1:24,000), 1961
- Bayview, Idaho (1:24,000), 1967
- Hayden Lake, Idaho (1:24,000), 1976, HBN gaging station on this quadrangle

- Spades Mountain, Idaho (1:24,000), 1990
- Coeur D'Alene, Idaho (1:100,000), 1987

b. Geologic Maps:

- Anderson, A.L., 1940, Geology and metalliferous deposits of Kootenai County, Idaho: Moscow, Idaho Bureau of Mines and Geology Pamphlet, no. 53, 67 p.
- Gribbs, A.B., 1973, Geologic map of the Spokane quadrangle, Washington, Idaho, and Montana: U.S. Geological Survey Miscellaneous Geologic Investigations Series Map I-768, scale 1:250,000.
- Bayard, G.G., 1979, Generalized geologic map of Coeur D'Alene district, Idaho and Montana: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-1090, scale 1:62,500.

c. Soil Surveys:

- Kuennen, L.J., and Nielsen-Gerhardt, M.L., 1995, Soil survey of Kootenai National Forest area, Montana and Idaho: U.S. Department of Agriculture Forest Service, 118 p.
- Weisel, C.J., 1981, Soil survey of Kootenai County area, Idaho: U.S. Department of Agriculture, Soil Conservation Service, 255 p.

d. Miscellaneous Maps:

- U.S. Department of Agriculture, 1981, Idaho Panhandle National Forests (Coeur D'Alene National Forest), Idaho and Montana, forest visitors map: Missoula, Mont., U.S. Department of Agriculture Forest Service, Northern Region, scale 1:126,720.

7. South Twin River near Round Mountain, Nevada (Station 10249300)

a. U.S. Geological Survey Topographic Maps:

- Arc Dome, Nevada (1:24,000), 1980
- Carvers NW, Nevada (1:24,000), 1971, HBN gaging station on this quadrangle
- South Toiyabe Peak, Nevada (1:24,000), 1979
- Ione Valley, Nevada (1:100,000), 1985

b. Geologic Maps:

- 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., scale 1:63,360.
- Whitebread, D.H., 1988, Preliminary geologic map of the eastern half of the Ione quadrangle, Nye County, Nevada: U.S. Geological Survey Open-File Report 88-48, scale 1:62,500.

- Vitaliano, C.J., 1963, Cenozoic geology and sections of the Ione quadrangle, Nye County, Nevada: U.S. Geological Survey Miscellaneous Field Studies Map MF-255, scale 1:100,000.

c. Miscellaneous Maps:

- U.S. Department of Agriculture, 1987, Toiyabe National Forest, Tonopah Ranger District: Ogden, Utah, U.S. Department of Agriculture Forest Service, scale 1:126,720.

8. Steptoe Creek near Ely, Nevada (Station 10244950)

a. U.S. Geological Survey Topographic Maps:

- Cave Creek, Nevada (1:24,000), 1981, HBN gaging station on this quadrangle
- Cleve Creek Baldy, Nevada (1:24,000), 1981
- Ely, Nevada (1:100,000), 1987

b. Geologic Maps:

- Hose, R.K., and Blake, M.C., Jr., 1979, Geologic map of White Pine County, Nevada: U.S. Geological Survey Open-File Report 70-166, scale 1:150,000.
- 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., scale 1:48,000.

c. Miscellaneous Maps:

- U.S. Department of Agriculture, 1984, Humboldt National Forest, White Pine Ranger District, Ely Ranger District: Ogden, Utah, U.S. Department of Agriculture Forest Service, Intermountain Region, scale 1:202,752.

9. Crater Lake near Crater Lake, Oregon (Station 11492200)

a. U.S. Geological Survey Topographic Maps:

- Crater Lake East, Oregon (1:24,000), 1985, HBN gaging station on this quadrangle
- Crater Lake West, Oregon (1:24,000), 1985
- Crater Lake National Park and vicinity (1:62,500), 1988

b. Geologic Maps:

- Diller, J.S., 1902, The geology and petrography of Crater Lake National Park: U.S. Geological Survey Professional Paper 3, 167 p.
- 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.

c. Miscellaneous Maps:

- U.S. Department of the Interior, 1982, Crater Lake National Park, Oregon: Washington, D.C., U.S. Department of the Interior National Park Service, scale 1:85,000.

10. Minam River at Minam, Oregon (Station 13331500)

a. U.S. Geological Survey Topographic Maps:

- China Cap, Oregon (1:24,000), 1984
- Jim White Ridge, Oregon (1:24,000), 1993
- Minam, Oregon (1:24,000), 1984, HBN station on this quadrangle
- Mount Moriah, Oregon (1:24,000), 1984
- Mt. Fanny, Oregon (1:24,000), 1984
- Eagle Cap, Oregon (1:48,000), 1954
- Enterprise, Oregon (1:100,000), 1986
- Wallowa, Oregon (1:100,000), 1982

b. Geologic Maps:

- Weis, P.L., 1971, Mineral resources of ten areas proposed as additions to the Eagle Cap Wilderness, Oregon: U.S. Geological Survey Open-File Report 1642, scale 1:62,500.
- 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., scale 1:62,500.
- Smith, W.D., 1941, Geology and physiography of the northern Wallowa Mountains, Oregon: Portland, Oregon Department of Geology and Mineral Industries Bulletin 12, 64 p.

c. Miscellaneous Maps:

- U.S. Department of Agriculture, 1989, Wallowa-Whitman National Forest: Portland, U.S. Department of Agriculture Forest Service, Pacific Northwest Region, scale 1:126,720.

- U.S. Department of Agriculture, 1980, Eagle Cap Wilderness, Wallowa-Whitman National Forest: Portland, U.S. Department of Agriculture Forest Service, Pacific Northwest Region, scale 1:63,360.

11. Red Butte Creek at Fort Douglas near Salt Lake City, Utah (Station 10172200)

a. U.S. Geological Survey Topographic Maps:

- Fort Douglas, Utah (1:24,000), 1975, HBN station on this map
- Mountain Dell, Utah (1:24,000), 1975
- Salt Lake City, Utah (1:100,000), 1981

b. Geologic Maps:

- 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.
- Nichols, D.J., and Bryant, Bruce, 1990, Geologic map of the Salt Lake City 30 × 60 quadrangle, north-central Utah and Uinta County, Wyoming: U.S. Geological Survey Miscellaneous Investigations Series Map I-1944, scale 1:100,000.

c. Soil Surveys:

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

d. Miscellaneous Maps:

- U.S. Department of Agriculture, 1989, Wasatch-Cache National Forest, Utah and Wyoming: Ogden, Utah, U.S. Department of Agriculture Forest Service, Intermountain Region, scale 1:170,000.
- U.S. Department of Agriculture, 1994, Wasatch-Cache National Forest travel map, Salt Lake Ranger District: Ogden, Utah, U.S. Department of Agriculture Forest Service, Intermountain Region, scale 1:126,720.

12. Andrews Creek near Mazama, Washington (Station 12447390)

a. U.S. Geological Survey Topographic Maps:

- Bauerman Ridge, Washington-British Columbia (1:24,000), 1969
- Coleman Peak, Washington (1:24,000), 1969
- Mt. Barney, Washington (1:24,000), 1969. HBN station on this quadrangle
- Rimmel Mountain, Washington (1:24,000), 1969

- Robinson Mountain, Washington (1:100,000), 1995

b. Geologic Maps:

- Staatz, M.H., 1971, Mineral resources of the Pasayten Wilderness Area, Washington: U.S. Geological Survey Bulletin 1325, 255 p., scale 1:200,000.

c. Miscellaneous Map:

- U.S. Department of Agriculture, 1981, Okanogan National Forest, Washington: Portland, Oreg., U.S. Department of Agriculture Forest Service, Pacific Northwest Region, scale 1:220,000.
- U.S. Department of Agriculture, 1991, Pasayten Wilderness, Okanogan National Forest: Portland, Oreg., U.S. Department of Agriculture Forest Service, Pacific Northwest Region, scale 1:88,000.