

water will be available to native vegetation than was available prior to the increase in water development.

Rotation of pumpage among the several well fields is one method of optimal water management that facilitates the local recovery of the aquifer system. As a drought continues, a couple of weeks or months of replenishment of soil moisture may be extremely important in maintaining the health of native vegetation. Rotational pumpage, which allows recovery of the water table and replenishment of soil moisture in the root zone, probably is the most promising short-term water-management technique.

The most innovative water-management options for the Owens Valley may include conjunctive operations with other ground-water basins between the Owens Valley and Los Angeles. Water-banking along the aqueduct may be one way to capture water during periods of above-average runoff, save it for drier periods, and limit the adverse effects of pumping on native vegetation in the Owens Valley.

SELECTED REFERENCES

- Alley, W.M., ed., 1993, Regional ground-water quality: New York, van Nostrand Reinhold, 634 p.
- Allmendinger, R.W., Hauge, T.A., Hauser, E.C., Potter, C.J., Klemperer, S.L., Nelson, K.D., Knuepfer, P., and Oliver, J., 1987, Overview of the COCORP 40 degrees north transect, western United States: The fabric of an orogenic belt: Geological Society of America Bulletin, v. 98, no. 3, p. 308–319.
- An, Kyung-Han, 1985, Barometric effects on diurnal ground-water-level changes in Owens Valley, California: Irvine, University of California, School of Engineering, unpublished M.S. thesis, 105 p.
- Anderson, R.E., Zoback, M.L., and Thompson, G.A., 1983, Implications of selected subsurface data on the structural form and evolution of some basins in the northern Basin and Range Province, Nevada and Utah: Geological Society of America Bulletin, v. 94, no. 9, p. 1055–1072.
- Antelope Valley–East Kern Water Agency, 1965, Report on water importation and resources development and on the feasibility of constructing water conservation and transportation facilities, 124 p.
- Bachman, S.B., 1974, Depositional and structural history of the Waucobi lake bed deposits, Owens Valley, California: Los Angeles, University of California, unpublished M.S. thesis, 129 p.
- Bachman, S.B., 1978, Pliocene–Pleistocene break-up of the Sierra Nevada–White–Inyo Mountains block and the formation of Owens Valley: Geology, Geological Society of America, v. 6, p. 461–463.
- Bacon, C.R., Giovannetti, D.M., Duffield, W.A., and Dalrymple, G.B., 1979, New constraints on the age of the Coso Formation, Inyo County, California: Geological Society of America, Abstracts with programs, v. 11, no. 3, p. 67.
- Bacon, C.R., Giovannetti, D.M., Duffield, W.A., Dalrymple, G.B., and Drake, R.E., 1982, Age of the Coso Formation, Inyo County, California: U.S. Geological Survey Bulletin 1527, 18 p.
- Bailey, G.E., 1902, The saline deposits of California: California State Mining Bureau Bulletin 24, 194 p.
- Bailey, R.A., 1984, Introduction to the late Cenozoic volcanism and tectonics of the Long Valley–Mono Basin area, eastern California, in Lintz, J., Jr., ed., Western geological excursions, volume 2: Geological Society of America, Field Guidebook, p. 56–67.
- Bailey, R.A., Dalrymple, G.B., and Lanphere, M.A., 1976, Volcanism, structure, and geochronology of Long Valley Caldera, Mono County, California: Journal of Geophysical Research, v. 81, no. 5, p. 725–744.
- Ball, S.H., 1907, A geologic reconnaissance in southwestern Nevada and eastern California: U.S. Geological Survey Bulletin 308, 218 p.
- Batchelder, G.L., 1970, Post-glacial fluctuations of lake level in Adobe Valley Abstracts, First Meeting, Mono County, California: American Quaternary Association, p. 7.
- Bateman, P.C., 1961, Willard D. Johnson and the strike-slip component of fault movement in the Owens Valley, California earthquake of 1872: Bulletin of Geological Society of America, v. 51, no. 4, p. 483–493.
- , 1965, Geology and tungsten mineralization of the Bishop district, California, with a section on Gravity study of Owens Valley by L.C. Pakiser and M.F. Kane, and a section on Seismic profile by L.C. Pakiser: U.S. Geological Survey Professional Paper 470, 207 p.
- , 1978, Map and cross section of the Sierra Nevada from Madera to the White Mountains, central California: Geological Society of America, map sheet, MC-28E, scale 1:250,000.
- Bateman, P.C., Clark, L.D., Huber, N.K., Moore, J.G., and Rinehart, C.D., 1963, The Sierra Nevada batholith: A synthesis of recent work across the central part: U.S. Geological Survey Professional Paper 414-D, 46 p.
- Bateman, P.C., Erickson, M.P., and Proctor, P.D., 1950, Geology and tungsten deposits of the Tungsten Hills, Inyo County, California: Journal of Mines and Geology, California Department of Mines and Geology, v. 46, no. 1, p. 23–42.
- Bateman, P.C., and Merriam, C.W., 1954, Geologic map of the Owens Valley region, California: California Division of Mines and Geology Bulletin 170, map sheet 11, scale 1:250,000.

- Bateman, P.C., and Moore, J.G., 1965, Geologic map of the Mount Goodard quadrangle, Fresno and Inyo Counties, California: U.S. Geological Survey Geologic Quadrangle Map GQ-429, scale 1:62,500.
- Bateman, P.C., and Wahrhaftig, C., 1966, Geology of the Sierra Nevada, *in* Bailey, E.H., ed., Geology of northern California: California Division of Mines and Geology Bulletin 190, p. 107–172.
- Beanland, S.L., and Clark, M.M., 1987, The Owens Valley fault zone, eastern California and surface rupture associated with the 1872 earthquake [abstract]: Seismological Research Letters, Seismological Society of America, v. 58, no. 1, p. 32.
- Bear, Jacob, 1979, Hydraulics of ground water: New York, McGraw-Hill, 569 p.
- Beardsell, M.F., Jarvis, P.G., and B. Davison, 1972, A null balance diffusion porometer suitable for use with leaves of many shapes: Journal of Applied Ecology, v. 9, p. 677–690.
- Beaty, C.B., 1963, Origin of alluvial fans, White Mountains, California and Nevada: Annals of the Association of American Geographers, v. 53, no. 4, p. 516–535.
- Benham, S., 1987, Various changes in some of the natural and cultural features that may influence the water resources of Owens Valley, California, as observed from maps of the area: Northridge, California State University, unpublished Honors thesis, 30 p.
- Berenbrock, Charles, and Martin, Peter, 1991, The groundwater flow system in Indian Wells Valley, Kern, Inyo, and San Bernardino Counties, California: U.S. Geological Survey Water-Resources Investigations Report 89-4191, 81 p.
- Berenbrock, Charles, and Schroeder, R. A., 1994, Groundwater flow and quality, and geochemical processes, in Indian Wells Valley, Kern, Inyo, and San Bernardino Counties, California, 1987–88: U.S. Geological Survey Water-Resources Investigations Report 93-4003, 59 p.
- Birman, J.H., 1964, Glacial geology across the crest of the Sierra Nevada, California: Geological Society of America, Special Paper no. 75, 80 p.
- Blackwelder, E., 1928, Mudflow as a geologic agent in semiarid mountains: Geological Society of America Bulletin, v. 39, June, p. 465–480.
- 1931, Pleistocene glaciation in the Sierra Nevada and basin-range: Geological Society of America Bulletin, v. 42, no. 4, p. 865–922.
- 1954, Pleistocene lakes and drainage in the Mojave region, southern California, *in* Jahns, R.H., ed., Geology of southern California: California Division of Mines and Geology Bulletin 170, chapter 5, p. 35–40.
- Blakely, R.J., and McKee, E.H., 1985, Subsurface structural features of the Saline Range and adjacent regions of eastern California as interpreted from isostatic residual gravity anomalies: Geology, v. 13, no. 11, p. 781–785.
- Blevins, M.L., Coufal, G.L., and McKeown, D.S., 1984, Owens Valley, California—Basin management from a different perspective: Los Angeles Department of Water and Power, presented at National Water Well Association Conference on Groundwater Management, October 1984, 21 p.
- Bowers, J.C., Butcher, M.T., Lamb, C.E., Polinoski, K.G., and Smith, G.B., 1985a, Water resources data—California, water year 1983. Volume 1. Southern Great Basin from Mexican border to Mono Lake basin, and Pacific slope basins from Tijuana River to Santa Maria River: U.S. Geological Survey Water-Data Report CA-83-1, 367 p.
- Bowers, J.C., Butcher, M.T., Lamb, C.E., Singer, J.A., and Smith, G.B., 1984, Water resources data—California, water year 1982. Volume 1. Southern Great Basin from Mexican border to Mono Lake basin, and Pacific slope basins from Tijuana River to Santa Maria River: U.S. Geological Survey Water-Data Report CA-82-1, 363 p.
- Bowers, J.C., McConaughy, C.E., Polinoski, K.G., and Smith, G.B., 1985b, Water resources data—California, water year 1984. Volume 1. Southern Great Basin from Mexican border to Mono Lake basin, and Pacific slope basins from Tijuana River to Santa Maria River: U.S. Geological Survey Water-Data Report CA-84-1, 375 p.
- 1987, Water resources data—California, water year 1985. Volume 1. Southern Great Basin from Mexican border to Mono Lake basin, and Pacific slope basins from Tijuana River to Santa Maria River: U.S. Geological Survey Water-Data Report CA-85-1, 325 p.
- Branson, F.A., Miller, R.F., and Sorenson, S.K., 1988, Tolerances of plants to drought and salinity in the western United States: U.S. Geological Survey Water-Resources Investigations Report 88-4070, 16 p.
- Bredehoeft, J.D., Papadopoulos, S.S., and Cooper, H.H., 1982, Groundwater: The water budget myth, *in* Scientific basis of water resource management: Washington, D.C., National Research Council, p. 51–57.
- Bredehoeft, J.D., and Young, R.A., 1970, The temporal allocation of groundwater: A simulation approach: Water Resources Research, v. 6, no. 1, p. 3–21.
- 1983, Conjunctive use of ground water and surface water for irrigated agriculture: Risk aversion: Water Resources Research, v. 19, no. 5, p. 1111–1121.
- Brook, C.A., 1977, Stratigraphy and structure of the Saddlebag Lake roof pendant, Sierra Nevada, California: Geological Society of America Bulletin, v. 88, no. 3, p. 321–334.
- Bryant, W.A., 1984, Evidence of recent faulting along the Owens Valley, Round Valley, and White Mountains fault zones, Inyo and Mono Counties, California: California Division of Mines and Geology, Open-File Report 84-54 SAC, scale 1:24,000.

- California Department of Health Services, 1983, Primary drinking water standards: California Department of Health Services, Sanitary Engineering Department, 1 table.
- California Department of Water Resources, 1960, Reconnaissance investigation of water resources of Mono and Owens Basins, Mono and Inyo Counties: 92 p.
- 1964, Coachella Valley investigation: Bulletin no. 108, 145 p.
- 1965, Interim report on Inyo–Mono area water resources investigation: 26 p.
- 1966, Report on water supply management in Inyo and Mono Counties: 61 p.
- 1967a, Mojave River ground water basins investigation: Bulletin no. 84, 151 p.
- 1967b, Review of a report by the city of Los Angeles on water supply management in Inyo and Mono Counties, California: Unpublished report, 14 p.
- 1980, Owens Valley ground water investigation, phase 1, 33 p.
- 1987, California Water: Looking to the future: Bulletin 160-87, 123 p.
- California Division of Mines and Geology, 1982, Bouguer gravity map of California, Mariposa sheet: scale 1:250,000.
- California Water Rights Board, 1963, Memorandum report of the water supply of the Mono and Owens basins with relationship to the proposed second barrel of the Los Angeles Aqueduct: Unpublished report, 11 p.
- Campbell, M.R., 1902, Reconnaissance of the borax deposits of Death Valley and Mojave Desert: U.S. Geological Survey Bulletin 200, 23 p.
- Carver, G.A., 1970, Quaternary tectonism and surface faulting in the Owens Lake Basin, California: University of Nevada, Mackay School of Mines, Technical Report AT-Z, 103 p.
- Casteel, M.V., 1986, Geology of a portion of the west-central Last Chance Range, Inyo County, California: Geological Society of America Abstracts, v. 18, no. 2, p. 94.
- Cehrs, D., 1979, Depositional control of aquifer characteristics in alluvial fans, Fresno County, California—Summary: Geological Society of America Bulletin, part 1, v. 90, no. 8, p. 709–711.
- Chapman, R.H., Healey, D.L., and Troxel, B.W., 1973, Bouguer gravity map of California, Death Valley sheet: California Division of Mines and Geology, scale 1:250,000, 8 p.
- Chow, V.T., 1964, Handbook of applied hydrology: New York, McGraw-Hill [variously paged].
- Christensen, M.N., 1966, Late Cenozoic crustal movement in the Sierra Nevada, Geological Society of America Bulletin, v. 77, p. 163–182.
- Cleveland, G.B., 1958, Poverty Hills diatomaceous earth deposit, Inyo County, California: California Journal of Mines and Geology, v. 54, no. 3, p. 305–316.
- Conkling, H., 1921, Report on Owens Valley project, California: U.S. Reclamation Service, 86 p.
- Conrad, J.E., Kilburn, J.E., Blakely, R.J., Sabine, Charles, Cather, E.E., Kuizon, Lucia, and Horn, M.C., 1987, Mineral resources of the southern Inyo wilderness area, Inyo County, California: U.S. Geological Survey Bulletin 1705, 28 p.
- Conrad, J.E., and McKee, E.H., 1985, Geologic map of the Inyo Mountains wilderness study area, Inyo County, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1733-A, scale 1:62,500.
- Crowder, D.F., McKee, E.H., Ross, D.C., and Krauskopf, K.B., 1973, Granitic rocks of the White Mountains area, California–Nevada: Age and regional significance: Geological Society of America Bulletin, v. 84, no. 1, p. 285–296.
- Crowder, D.F., Robinson, P.F., and Harris, D.L., 1972, Geologic map of the Benton quadrangle, Mono County, California, and Esmeralda and Mineral Counties, Nevada: U.S. Geological Survey Geologic Quadrangle Map GQ-1013, scale 1:62,500.
- Crowder, D.F., and Ross, D.C., 1972, Permian (?) to Jurassic (?) metavolcanic and related rocks that mark a major structural break in the northern White Mountains, California–Nevada: U.S. Geological Survey Professional Paper 800-B, p. B195–B203.
- Crowder, D.F., and Sheridan, M.F., 1972, Geologic map of the White Mountain Peak quadrangle, California: U.S. Geological Survey Geologic Quadrangle Map GQ-1012, scale 1:62,500.
- Dalrymple, G.B., 1963, Potassium–Argon dates of some Cenozoic volcanic rocks of the Sierra Nevada, California: Geological Society of America Bulletin, v. 74, p. 379–390.
- 1964a, Cenozoic chronology of the Sierra Nevada, California: Berkeley, University of California, Publications in Geological Sciences, v. 47, p. 1–41.
- 1964b, Potassium–Argon dates of three Pleistocene interglacial basalt flows from the Sierra Nevada, California: Geological Society of America Bulletin, v. 75, no. 8, p. 753–757.
- Dalrymple, G.B., Cox, A., and Doell, R.R., 1965, Potassium–Argon age and paleomagnetism of the Bishop Tuff, California: Geological Society of America Bulletin, v. 76, no. 6, p. 665–674.
- Danskin, W.R., 1988, Preliminary evaluation of the hydrogeologic system in Owens Valley, California: U.S. Geological Survey Water-Resources Investigations Report 88-4003, 76 p.

- Danskin, W.R., 1990, The role of ground water in ameliorating long-term water scarcity: 17th Biennial Conference on Ground Water, University of California, Water Resources Center, Davis, California, Report no. 72, proceedings, p. 79–89.
- Danskin, W.R., and Gorelick, S.M., 1985, A policy evaluation tool: Management of a multiaquifer system using controlled stream recharge: *Water Resources Research*, v. 21, no. 11, p. 1731–1747.
- Davis, S.N., 1969, Porosity and permeability of natural materials, *in* DeWiest, R.J.M., ed., *Flow through porous media*: New York, Academic Press, p. 54–90.
- Davis, W.M., 1933, The lakes of California: *California Journal of Mines and Geology*, v. 29, nos. 1 and 2, p. 175–236.
- dePolo, C.M., 1988, Styles of faulting along the White Mountains fault system east central California and west central Nevada [abstract]: *Geological Society of America Cordilleran Section*, 84th annual meeting, Las Vegas, Program with abstracts, 189 p.
- dePolo, C.M., and dePolo, D.M., 1987, Microseismicity in the northern Owens Valley and Chalfant Valley areas: Reno, University of Nevada, Seismological Laboratory Report I-2, 36 p.
- Dileanis, P.D., and Groeneveld, D.P., 1989, Osmotic potential and projected drought tolerances of four phreatophytic shrub species in Owens Valley, California, with a section on plant-water relations: *U.S. Geological Survey Water-Supply Paper 2370-D*, 21 p.
- Driscoll, F.G. 1986, *Groundwater and wells*: St. Paul, Minnesota, Johnson Division, 2nd ed., 1108 p.
- du Bray, E.A., and Moore, J.G., 1985, Geologic map of the Olancho Quadrangle, southern Sierra Nevada, California: *U.S. Geological Survey Miscellaneous Field Studies Map MF-1734*, scale 1:62,500.
- Duell, L.F.W., Jr., 1985, Evapotranspiration rates from rangeland phreatophytes by the eddy-correlation method in Owens Valley, California [extended abstract]: 17th Conference on Agricultural and Forest Meteorology and 7th Conference on Biometerology and Aerobiology, Scottsdale, Arizona, 1985, Proceedings, p. 44–47.
- 1990, Estimates of evapotranspiration in alkaline scrub and meadow communities of Owens Valley, California, using the Bowen-ratio, eddy-correlation, and Penman-combination methods: *U.S. Geological Survey Water-Supply Paper 2370-E*, 39 p.
- Duell, L.F.W., Jr., and Nork, D.M., 1985, Comparison of three micrometeorological methods to calculate evapotranspiration in the Owens Valley, California *in* *Riparian ecosystems and their management: Reconciling conflicting uses*: U.S. Forest Service General Technical Report RM-120, p. 161–65.
- Duffield, W.A., and Bacon, C.R., 1981, Geologic map of the Coso volcanic field and adjacent areas, Inyo County, California: *U.S. Geological Survey Miscellaneous Investigations Map MF-1200*, scale 1:50,000.
- Duffield, W.A., Bacon, C.R., and Dalrymple, B.G., 1980, Late Cenozoic volcanism, geochronology, and structure of the Coso Range, Inyo County, California: *Journal of Geophysical Research*, v. 85, no. B5, p. 2381–2404.
- Duffield, W.A., and Smith, G.I., 1978, Pleistocene history of volcanism and the Owens River near Little Lake, California: *U.S. Geological Survey Journal of Research*, v. 6, no. 3, p. 395–408.
- Dunne, G.C., and Gulliver, R.M., 1978, Nature and significance of the Inyo thrust fault, eastern California: discussion and reply: *Geological Society of America Bulletin*, v. 89, p. 1787–1792.
- Durbin, T.J., 1978, Calibration of a mathematical model of the Antelope Valley ground-water basin, California: *U.S. Geological Survey Water-Supply Paper 2046*, 91 p.
- Durbin, T.J., Glenn, G.W., and Freckleton, J.R., 1978, Two-dimensional and three-dimensional digital flow models of the Salinas Valley ground-water basin, California: *U.S. Geological Survey Water-Resources Investigations Report 78-113*, 134 p.
- Dutcher, L.C., and Moyle, W.R., 1973, Geologic and hydrologic features of Indian Wells Valley, California: *U.S. Geological Survey Water-Supply Paper 2007*, 30 p.
- Ekren, E.B., Bucknam, R.C., Carr, W.J., Dixon, G.L., and Quinlivan, W.D., 1979, East-trending structural lineaments in central Nevada: *U.S. Geological Survey Professional Paper 986*, 16 p.
- Ekren, E.B., Rogers, C.L., Anderson, R.E., and Orkild, P.P., 1968, Age of basin and range normal faults in Nevada Test Site and Nellis Air Force Range, Nevada, *in* *Nevada Test Site: Geological Society of America Memoir 110*, p. 247–250.
- Elliott, G.S., and McKee, E.H., 1982, Geologic map of the Coyote SE and Table Mountain roadless areas, Inyo County, California: *U.S. Geological Survey Miscellaneous Field Studies Map MF-1426-A*, scale 1:62,500.
- Evernden, J.F., and Kistler, R.W., 1970, Chronology of emplacement of Mesozoic batholithic complexes in California and western Nevada: *U.S. Geological Survey Professional Paper 623*, 42 p.
- Fenneman, N.M., 1931, *Physiography of Western United States*: New York, McGraw-Hill, 534 p.
- Fenneman, N.M., and Johnson, D.W., 1946, *Physical divisions of the United States*: *U.S. Geological Survey Map*, scale 1:7,000,000.
- Feth, J.H., 1964a, Hidden recharge: *Groundwater*, v. 2, no. 4, p. 14–17.
- 1964b, Review and annotated bibliography of ancient lake deposits (Precambrian to Pleistocene) in the Western United States: *U.S. Geological Survey Bulletin 1080*, 119 p.

- Franke, O.L., Reilly, T.E., and Bennett, G.D., 1987, Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction: U.S. Geological Survey Techniques of Water-Resources Investigations, Book 3, chapter B5, 15 p.
- Freeze R.A., and Cherry, J.A., 1979, Groundwater: Englewood Cliffs, New Jersey, Prentice-Hall, 604 p.
- Gale, H.S., 1915, Salines in the Owens, Searles, and Panamint basins, southeastern California: U.S. Geological Survey Bulletin 580, p. 251–323.
- Gilbert, C.M., 1938, Welded tuff in eastern California: Geological Society of America Bulletin, v. 49, no. 12, p. 1829–1861.
- Gilbert, C.M., and Reynolds, M.W., 1973, Character and chronology of basin development, western margin of the Basin and Range province: Geological Society of America Bulletin, v. 84, no. 8, p. 2489–2509.
- Gilbert, G.K., 1885, The topographic features of lake shores: U.S. Geological Survey Fifth Annual Report, p. 75–123.
- 1928, Studies of Basin–Range structure: U.S. Geological Survey Professional Paper 153, 92 p.
- Gillespie, A.R., 1982, Quaternary glaciation and tectonism in the southeastern Sierra Nevada, Inyo County, California: Pasadena, California Institute of Technology, unpublished Ph.D. dissertation, 695 p.
- Giovannetti, D.M., 1979a, Mio–Pliocene volcanic rocks and associated sediments of southeastern Owens Lake, Inyo County, California: Berkeley, University of California, unpublished M.S. thesis, 76 p.
- 1979b, Volcanism and sedimentation associated with the formation of southern Owens Valley, California: Geological Society of America, Abstracts with programs, v. 11, no. 3, p. 79.
- Gleason, J.D., Veronda, G., Smith, G.I., Friedman, I., and Martin, P., 1994, Deuterium content of water from wells and perennial springs, southeastern California: U.S. Geological Survey Hydrologic Investigations Atlas 727, 1 sheet.
- Gorelick, S.M., 1983, A review of distributed parameter groundwater management modeling methods: Water Resources Research, v. 19, no. 2, p. 305–319.
- Greene, G.W., and Hunt, C.B., 1960, Observations of current tilting of the Earth's surface in the Death Valley, California, area: U.S. Geological Survey Professional Paper 400-B, p. B275–B276.
- Griepentrog, T.E., and Groeneveld, D.P., 1981, The Owens Valley management report: Final report for Inyo County, Bishop, California, 272 p.
- Groeneveld, D.P., 1985, Nevada saltbush (*Atriplex torreyi*) autecology in relation to phreatic versus xeric habitats: Fort Collins, Colorado State University, unpublished Ph.D. dissertation, 156 p.
- 1986, Transpiration processes of shallow ground-water shrubs and grasses in the Owens Valley, California: Rooting relationships: Report of Inyo County Water Department and city of Los Angeles Department of Water and Power to California Water Resources Control Board, 81 p.
- 1990, Shrub rooting and water acquisition on threatened shallow groundwater habitats in the Owens Valley, California: U.S. Department of Agriculture, Forest Service General Technical Report INT-276, p. 221–237.
- 1992, Owens Valley, California, plant ecology: Effects from export groundwater pumping and measures to conserve the local environment, in Hall, C.A., Jr., Doyle-Jones, Victoria, and Widawski, Barbara, eds., The history of water: Eastern Sierra, Owens Valley, White–Inyo Mountains: White Mountain Research Station symposium, v. 4, University of California, Los Angeles, p. 128–155.
- Groeneveld, D.P., Elvidge, C.D., and Mouat, D.A., 1988, Hydrologic alteration and associated vegetation changes in the Owens Valley, California, in Whitehead, E.E., Hutchison, C.F., Timmermann, B.N., and Varady, R.G., eds., Arid lands, today and tomorrow: Proceedings of an international research and development conference, Boulder, Colorado, Westview Press, p. 1373–1382.
- Groeneveld, D.P., Grate, D.L., Hubbard, P.J., Munk, D.S., Novak, P.J., Tillemans, B., Warren, D.C., and Yamashita, I., 1985, A field assessment of above- and below-ground factors affecting transpiration in the Owens Valley, California: U.S. Department of Agriculture, General Technical Report RM 120, p. 160–170.
- Groeneveld, D.P., and Griepentrog, T.E., 1982, Integrating environment with groundwater extraction: American Society of Civil Engineers, 1982 conference, Las Vegas, Nevada, ASCE preprint 82-026, 12 p.
- Groeneveld, D.P., Warren, D.C., Hubbard, P.J., and Yamashita, I.S., 1986a, Transpiration processes of shallow ground-water shrubs and grasses in the Owens Valley, California, Phase I: Steady state conditions: Report of Inyo County Water Department and city of Los Angeles Department of Water and Power to California Water Resources Control Board, 130 p.
- Groeneveld, D.P., Warren, D.C., Hubbard, P.J., Yamashita, I.S., and Manning, S.J., 1986b, Transpiration processes of shallow ground-water shrubs and grasses in the Owens Valley, California, Phase II: Soil water changes and plant responses induced by altered depth to the water table: Report of Inyo County Water Department and city of Los Angeles Department of Water and Power to California Water Resources Control Board, 48 p.

- Groeneveld, D.P., Warren, D.C., and Rawson, R.H., 1987, Estimation of evapotranspiration by percent plant cover for the Western Great Basin: Transactions of the American Geophysical Union (EOS), v. 68, no. 44, p. 1299.
- Guymon, G.L., and Yen, Chung-Cheng, 1988, An efficient deterministic—probabilistic approach to modeling regional ground-water flow: Application to Owens Valley, California: U.S. Geological Survey Open-File Report 88-91, 32 p.
- Hall, W.E., and MacKevett, E.M., Jr., 1962, Geology and ore deposits of the Darwin quadrangle, Inyo County, California: U.S. Geological Survey Professional Paper 368, 87 p.
- Hammon, W.D., 1912, Potash solutions in the Searles Lake region: Mining Science, v. 65, April, p. 372–373.
- Hanson, R.T., Anderson, S.R., and Pool, D.R., 1990, Simulation of ground-water flow and potential land subsidence, Avra Valley, Arizona: U.S. Geological Survey Water-Resources Investigations Report 90-4178, 41 p.
- Hantush, M.S., 1960, Modification of the theory of leaky aquifers: Journal of Geophysical Research, v. 65, no. 11, p. 3713–3725.
- Hardt, W.F., 1980, Review of hydrologic information for adequacy in developing a water-management plan in the Owens Valley, southern California, Appendix B of Owens Valley Ground Water Investigation, Phase I: California Department of Water Resources, Southern District Report, 77 p.
- Hay, J.M., 1964, Phillipsite of saline lakes and soils: American Mineralogist, v. 49, p. 1366–1387.
- Hess, F.L., and Larsen, E.S., 1921, Contact-metamorphic tungsten deposits of the United States: U.S. Geological Survey Bulletin 725, p. 268–274.
- Higgins, C.T., Flynn, T., Chapman, R.H., Trexler, D.T., Chase, G.R., Bacon, C.F., and Ghusn, G., Jr., 1985, Geothermal systems of the Mono Basin–Long Valley region, eastern California and western Nevada: California Division of Mines and Geology, Open-File Report 85-19 SAC, 159 p.
- Hill, M.C., 1990a, Preconditioned conjugate-gradient 2 (PCG2), a computer program for solving ground-water flow equations: U.S. Geological Survey Water-Resources Investigations Report 90-4048, 43 p.
- 1990b, Solving groundwater flow problems by conjugate-gradient methods and the strongly implicit procedure: Water Resources Research, v. 26, no. 9, p. 1961–1969.
- Hodgson, F.D.I., 1978, The use of multiple linear regression in simulating ground-water level responses: Groundwater, v. 16, no. 4, p. 249–253.
- Hoffmann, Abraham, 1981, Vision or villainy: Texas A & M University Press, College Station, Texas, 308 p.
- Hollett, K.J., 1987, Additional studies, in Rogers, L.S., and others, Overview of water resources in Owens Valley, California: U.S. Geological Survey Water-Resources Investigations Report 86-4357, p. 34–35.
- Hollett, K.J., Danskin, W.R., McCaffrey, W.F., and Walti, C.L., 1991, Geology and water resources of Owens Valley, California: U.S. Geological Survey Water-Supply Paper 2370-B, 77 p.
- Hopper, R.H., 1947, Geologic section from the Sierra Nevada to Death Valley, California: Geological Society of America Bulletin, v. 58, p. 393–432.
- Howard, N.W., 1979, Subsurface correlation of Tertiary–Quaternary desert alluvial deposits, northern Yucca Flat, Nevada: Geological Society of America, Abstracts with Program, v. 11, no. 3, p. 85.
- Hubbs, Carl, and Miller, R.P., 1948, The Great Basin: University of Utah Bulletin, v. 38, no. 20, p. 18–166.
- Huber, N.K., 1981, Amount and timing of late Cenozoic uplift and tilt of the central Sierra Nevada, California—Evidence from the upper San Joaquin River basin: U.S. Geological Survey Professional Paper 1197, 28 p.
- Huber, N.K., and Rinehart, C.D., 1965, Geologic map of the Devil's Postpile quadrangle, Sierra Nevada, California: U.S. Geological Survey Geologic Quadrangle Map GQ-437, scale 1:62,500.
- Hunt, C.B., 1974, Natural regions of the United States and Canada: San Francisco, Freeman, 725 p.
- Hunt, C.B., and Robinson, T.W., 1960, Possible interbasin circulation of ground water in the southern part of the Great Basin: U.S. Geological Survey Professional Paper 400-B, p. B273–B274.
- Hunt, C.B., Robinson, T.W., Bowles, W.A., and Washburn, A.L., 1966, Hydrologic basin, Death Valley, California: U.S. Geological Survey Professional Paper 494-B, 138 p.
- Hutchison, W.R., 1986a, Linear regression analysis of Owens Valley pumping, April 1972–March 1985: Inyo County Water Department Report 86-1, 61 p.
- 1986b, Updated water budgets in Owens Valley: Inyo County Water Department Report 86-2, 18 p.
- 1986c, Proposed storage increase of Long Valley Reservoir: Markov Chain Analysis: Inyo County Water Department Report 86-3, 35 p.
- 1986d, Estimation of baseflow: Owens River at Keeler Bridge: Inyo County Water Department Report 86-4, 24 p.
- 1988, Analysis of groundwater flow in the Bishop Basin with the use of a finite difference model: Luhdorff and Scalmanini Consulting Engineers, Woodland, California, 18 p.
- 1990, Conceptualization and plans for development of a simulation model of the operation of the Los Angeles Aqueduct: Luhdorff and Scalmanini Consulting Engineers, Woodland, California, 19 p.

- Hutchison, W.R., 1991, Documentation of a FORTRAN program that simulates the operation of the Los Angeles Aqueduct: Luhdorff and Scalmanini Consulting Engineers, Woodland, California, 42 p.
- Hutchison, W.R., and Radell, M.J., 1988a, Preliminary analysis of groundwater flow in the Owens Valley with the use of finite-difference models: Inyo County Water Department Report 88-1, 102 p.
- 1988b, Compare and contrast analysis of four groundwater flow models covering portions of the Owens Valley: Inyo County Water Department Report 88-2, 73 p.
- Inyo County Water Department, 1982, Draft environmental impact report on the Owens Valley water management plan: 107 p.
- Jachens, R.C., and Griscom, A., 1986, An isostatic residual gravity map of California—A residual map for interpretation of anomalies from intracrustal sources, *in* Hinze, W.J., ed., The utility of regional gravity and magnetic anomaly maps: Society of Exploration Geophysicists, p. 347–360.
- Jackson, R.D., 1985, Evaluating evapotranspiration at local and regional scales: Institute of Electrical and Electronics Engineers, v. 73, Proceedings, p. 1086–1096.
- Jannik, N.O., Phillips, Fred, Smith, G.I., Elmore, David, and Kubik, Peter, 1987, Hydrologic response to climatic changes in a closed-basin lake system: Paleo-Owens River system, California: Transactions of the American Geophysical Union (EOS), v. 68, no. 44, p. 1270.
- Jennings, C.W., comp., 1975, Fault map of California: California Division of Mines and Geology, Map no. 1, scale 1:750,000.
- Johnson, E.A., 1968, Structural geology of the south Mazourka Canyon Area, Inyo County, California: San Jose, California State University, unpublished M.S. thesis, 61 p.
- Journel, A.G., and Huijbregts, Ch.J., 1978, Mining geostatistics: San Francisco, Academic Press, 600 p.
- Kahle, J.E., Bryant, W.A., and Hart, E.W., 1986, Fault rupture associated with the July 21, 1986, Chalfant Valley earthquake, Mono and Inyo Counties, California: California Geology, California Division of Mines and Geology, v. 39, no. 11, p. 243–245.
- Kane, M.F., and Pakiser, L.C., 1961, Geophysical study of the subsurface structure in southern Owens Valley, California: Geophysics, v. 26, no. 1, p. 12–26.
- Kahrl, W.L., 1982, Water and Power: University of California Press, Berkeley, California, 583 p.
- Kirk, Edwin, 1918, Stratigraphy of the Inyo Range, *in* Knopf, Adolf, A geologic reconnaissance of the Inyo Range and the eastern slope of the southern Sierra Nevada, California: U.S. Geological Survey Professional Paper 110, p. 19–48.
- Knopf, Adolf, 1918, A geologic reconnaissance of the Inyo Range and the eastern slope of the southern Sierra Nevada, California, *with a section on* Stratigraphy of the Inyo Range, by Edwin Kirk: U.S. Geological Survey Professional Paper 110, 130 p.
- Koltermann, C.E., and Gorelick, S.M., 1992, Paleoclimatic signature in terrestrial flood deposits: *Science*, v. 256, p. 1775–1782.
- Kramer, P.J., 1983, Water relations of plants: New York, Academic Press, 489 p.
- Krauskopf, K.B., 1971, Geologic map of the Mount Barcroft quadrangle, California–Nevada: U.S. Geological Survey Geologic Quadrangle Map GQ-960, scale 1:62,500.
- Krauskopf, K.B., and Bateman, P.C., 1977, Geologic map of the Glass Mountain quadrangle, Mono County, California, and Mineral County, Nevada: U.S. Geological Survey Geologic Quadrangle Map GQ-1099, scale 1:62,000.
- Kuiper, L.K., 1987a, A comparison of iterative methods as applied to the solution of the nonlinear three-dimensional groundwater flow equation: *Society for Ind. and Applied Mathematics, J. Sci. Stat. Comput.* v. 8, no. 4, p. 521–528.
- 1987b, Computer program for solving groundwater flow equations by the preconditioned conjugate-gradient method: U.S. Geological Survey Water-Resources Investigations Report 87-4091, 34 p.
- Lajoie, K.R., 1968, Late Quaternary stratigraphy and geologic history of Mono Basin, eastern California: Berkeley, University of California, unpublished Ph.D. thesis, 271 p.
- Langbein, J.O., Linker, M.F., and Tupper, D.L., 1985, Steady decrease in extension rate within the Long Valley caldera, eastern California, 1983–1985: *American Geophysical Union, EOS abstracts*, v. 66, no. 46, p. 852.
- Langenheim, V.A.M., Donahoe, J.L., and McKee, E.H., 1982a, Geologic map of the Andrews Mountain, Mazourka, and Paiute roadless areas, Inyo County, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-1492-A, scale 1:62,500.
- 1982b, Geologic map of the Laurel-McGee and Wheeler Ridge roadless areas, Inyo and Mono Counties, California: U.S. Geological Survey Miscellaneous Field Investigations Map MF-1411-A, scale 1:62,500.
- Lee, C.H., 1912, An intensive study of the water resources of a part of Owens Valley, California: U.S. Geological Survey Water-Supply Paper 294, 135 p.
- 1932, Report on the physical and economic limits of the underground water resources of Owens Valley: Los Angeles Department of Water and Power, unpublished report, 23 p.
- Lee, W.T., 1906, Geology and water resources of Owens Valley, California: U.S. Geological Survey Water-Supply Paper 181, 28 p.

- Lemmon, D.M., 1941, Tungsten deposits in the Sierra Nevada near Bishop, California: U.S. Geological Survey Bulletin 931-E, p. 79–104.
- Lettenmaier, D.P., and Sheer, D.P., 1991, Climatic sensitivity of California water resources: *Journal of Water Resources Planning and Management*, v. 117, no. 1, p. 108–125.
- Lienkaemper, J.J., Pezzopane, S.K., Clark, M.M., and Rymer, M.J., 1987, Fault fractures formed in association with the 1986 Chalfant Valley, California, earthquake sequence: Preliminary Report: *Bulletin of Seismological Society of America*, v. 77, no. 1, p. 297–305.
- Lins, H.F., Sundquist, E.T., and Ager, T.A., 1988, Information on selected climate and climate-change issues: U.S. Geological Survey Open-File Report 88-718, 26 p.
- Lohman, S.W., 1979, Ground-water hydraulics: U.S. Geological Survey Professional Paper 708, 70 p.
- Lohman, S.W., and others, 1972, Definitions of selected ground-water terms—Revisions and conceptual refinements: U.S. Geological Survey Water-Supply Paper 1988, 21 p.
- Londquist, C.J., and Martin, Peter, 1991, Geohydrology and ground-water-flow simulation of the Surprise Spring basin aquifer system, San Bernardino County, California: U.S. Geological Survey Water-Resources Investigations Report 89-4099, 41 p.
- Lopes, T.J., 1988, Hydrology and water budget of Owens Lake, California: Reno, University of Nevada, Desert Research Institute, Water Resources Center Publication 41107, 104 p.
- Los Angeles [city of] Board of Public Service Commissioners, 1916, Complete report on construction of the Los Angeles Aqueduct: California Department of Public Service, city of Los Angeles, 331 p.
- Los Angeles Department of Water and Power, 1972, Report on water resources management plan, Owens Valley groundwater basin: 160 p.
- 1974a, Groundwater quality in the Owens Valley: Departmental report by the Sanitary Engineering Division, Los Angeles Department of Water and Power, 88 p.
- 1974b, Increased pumping of the Owens Valley groundwater basin: Draft Environmental Impact Report, 62 p., 4 app.
- 1975, Increased pumping of the Owens Valley groundwater basin: Revised draft Environmental Impact Report, 79 p., 4 app.
- 1976, Increased pumping of the Owens Valley groundwater basin: Final Environmental Impact Report, v. 2, 125 p.
- 1978, Increased pumping of the Owens Valley groundwater basin: Draft Environmental Impact Report: 152 p., 8 app.
- 1979, Increased pumping of the Owens Valley groundwater basin: Final Environmental Impact Report, v. 1, 253 p.
- 1982, Comments on Owens Valley Draft Environmental Impact Report and water management report: 188 p.
- 1984a, Owens Valley groundwater conditions-update: 9 p.
- 1984b, Background report on Mono Basin geology and hydrology: 200 p.
- 1987, Mono Basin geology and hydrology: variously paged, 6 app.
- 1988, Development of a mathematical groundwater flow model of the Owens Lake Basin area, California: Final draft, 31 p.
- Los Angeles [city of] and Inyo County, 1990a, Water from the Owens Valley to supply the second Los Angeles Aqueduct: Draft Environmental Impact Report, v. I.
- 1990b, Water from the Owens Valley to supply the second Los Angeles Aqueduct: Draft Environmental Impact Report, v. II.
- 1990c, Green book for the long-term groundwater management plan for the Owens Valley and Inyo County: Draft, v. I.
- Lubetkin, K.C., 1980, Late Quaternary activity along the Lone Pine fault, Owens Valley, California: Stanford, California, Stanford University, unpublished M.S. thesis, 85 p.
- Lubetkin, K.C., and Clark, M.M., 1985, Late Quaternary activity along the Lone Pine fault, eastern California, *in* Stein, R.S., and Buckman, R.C., eds., *Proceedings of Workshop 27 on the Borah Peak, Idaho, earthquake*: U.S. Geological Survey Open-File Report 85-290-A, p. 118–140.
- 1987, Late Quaternary fault scarp at Lone Pine, California, Location of oblique slip during the great 1872 earthquake and earlier earthquakes: *Geological Society of America, Central Field Guide, Cordilleran Section*, p. 151–156.
- Mankinen, E.A., Gromme, C.S., Dalrymple, G.B., Lanphere, M.A., and Bailey, R.A., 1986, Paleomagnetism and K-Ar ages of volcanic rocks from Long Valley caldera, California: *American Geophysical Union, Journal of Geophysical Research*, v. 91, no. B1, p. 633–652.
- Mann, J.F., Jr., 1976, Wastewaters in the vadose zone of arid regions: *Hydrologic interactions: Groundwater*, v. 14, no. 6, p. 367–373.
- Marliave, Chester, 1934, Geological report on Tinemaha Dam, situated in Owens River in Inyo County: Sacramento, California Department of Water Resources Report, 9 p.
- Martel, S.J., 1984a, Structure of the Owens Valley fault zone near Poverty Hills, Owens Valley, California [abs]: *Geological Society of America Abstract with Programs*, Reno, November 5–8, 1984, p. 408.

- Martel, S.J., 1984b, Late Quaternary activity on the Fish Springs fault, Owens Valley fault zone, California: Stanford, California, Stanford University, unpublished M.S. thesis, 100 p.
- Matthes, F.E., and Fryxell, F., eds., 1950, Sequoia National Park, a geological album: Berkeley, University of California Press, 136 p.
- Mayo, E.B., 1934, The Pleistocene Long Valley lake in eastern California: *Science*, v. 80, p. 95–96.
- 1941, Deformation in the interval Mt. Lyell–Mt. Whitney: *Geological Society of America Bulletin*, v. 52, no. 7, p. 1001–1054.
- 1947, Structure plan of the southern Sierra Nevada, California: *Geological Society of America Bulletin*, v. 58, no. 6, p. 495–504.
- McDonald, M.G., and Harbaugh, A.W., 1988, A modular three-dimensional finite-difference ground-water flow model: U.S. Geological Survey Techniques of Water-Resources Investigations, Book 6, Chapter A1, 586 p.
- McKee, E.H., 1971, Tertiary igneous chronology of the Great Basin of Western United States—Implications for tectonic models: *Geological Society of America Bulletin*, v. 82, p. 3497–3502.
- McKee, E.H., Conrad, J.E., Kilburn, J.E., McCarthy, J.H., Jr., Blakely, R.J., and Close, T.J., 1985, Mineral resources of the Inyo Mountains wilderness study area, Inyo County, California: U.S. Geological Survey Bulletin 1708-A, 18 p.
- McKee, E.H., Diggles, M.F., Donahoe, J.L., and Elliott, G., 1982, Geologic map of the White Mountains wilderness and roadless areas, California and Nevada: U.S. Geological Survey Miscellaneous Field Studies Map MF-1361-A, scale 1:62,500.
- McKee, E.H., Noble, D.C., and Silberman, M.L., 1970, Middle Miocene hiatus in volcanic activity in the Great Basin area of the Western United States: *Earth and Planetary Science Letters*, v. 8, p. 93–96.
- Meinzer, O.E., 1923, Outline of ground-water hydrology with definitions: U.S. Geological Survey Water-Supply Paper 494, 71 p.
- 1927, Plants as indicators of ground water: U.S. Geological Survey Water-Supply Paper 577, 95 p.
- Merriam, C.W., 1963, Geology of the Cerro Gordo mineral district, Inyo County, California: U.S. Geological Survey Professional Paper 408, 83 p.
- Miall, A.D., 1981, Alluvial sedimentary basins: Tectonic setting and basin architecture, *in* Miall, A.D., ed., *Sedimentation and tectonics in alluvial basins*: Geological Association of Canada, Paper 23, p. 1–33.
- 1984, *Principles of sedimentary basin analysis*: New York, Springer-Verlag, 490 p.
- Miller, D.H., 1981, *Energy at the surface of the earth*: New York, Academic Press, 516 p.
- Miller, R.H., 1976, Revision of upper Ordovician, Silurian, and lower Devonian stratigraphy, southwestern Great Basin: *Geological Society of America Bulletin*, v. 87, no. 7, p. 961–968.
- Miller, R.R., 1946, Correlation between fish distribution and Pleistocene hydrography in eastern California and southwestern Nevada, with a map of the Pleistocene waters: *Journal of Geology*, v. 54, no. 1, p. 43–53.
- Moore, J.G., 1963, Geology of the Mount Pinchot quadrangle, southern Sierra Nevada, California: U.S. Geological Survey Bulletin 1130, 152 p.
- Moore, J.G., and Dodge, F.C.W., 1980, Late Cenozoic volcanic rocks of the southern Sierra Nevada, California: 1. Geology and petrology: *Geological Society of America Bulletin*, part 2, v. 91, no. 9, p. 1995–2038.
- Moring, B.C., 1986, Reconnaissance surficial geologic map of northern Death Valley, California and Nevada: U.S. Geological Survey Miscellaneous Field Investigations Map MF-1770, scale 1:62,500.
- Moss, M.E., and Lins, H.F., 1989, Water resources in the twenty-first century—A study of the implications of climate uncertainty: U.S. Geological Survey Circular 1030, 25 p.
- Nadeau, R.A., 1974, *The Water Seekers*: Bishop, California, Chalfant Press, Inc., 278 p.
- Nelson, C.A., 1962, Lower Cambrian–Precambrian succession, White–Inyo Mountains, California: *Geological Society of America Bulletin*, v. 73, no. 1, p. 139–144.
- 1966a, Geologic map of the Blanco Mountain quadrangle, Inyo and Mono Counties, California: U.S. Geological Survey Geologic Quadrangle Map GQ-529, scale 1:62,500.
- 1966b, Geologic map of the Waucobi Mountain quadrangle, Inyo County, California: U.S. Geological Survey Geologic Quadrangle Map GQ-528, scale 1:62,500.
- Nelson, C.A., Oertel, G., Christie, J.M., and Sylvester, A.G., 1978, Geologic map of Papoose Flat pluton, Inyo Mountains, California: *Geological Society of America*, Map sheet, MC-20, scale 1:32,000, 3 sheets.
- Neuman, S.P., 1975, Analysis of pumping test data from anisotropic unconfined aquifers considering delayed gravity response: *Water Resources Research*, v. 11, no. 2, p. 329–342.
- Neuman, S.P., and Witherspoon, P.A., 1971, Field pumping tests, *in* Sea-water intrusion: Aquitards in the coastal ground water basin of Oxnard Plain, Ventura County, California: California Department of Water Resources Bulletin No. 63-4, p. 63–85.
- Newton, G.D., 1985, Computer programs for common map projections: U.S. Geological Survey Bulletin 1642, 33 p.
- Nolan, T.B., 1943, The Basin and Range province in Utah, Nevada, and California: U.S. Geological Survey Professional Paper 197-D, p. 141–196.

- Nork, D.M., 1987, The analysis of water-level fluctuations in a shallow, unconfined aquifer, Owens Valley, California: Reno, University of Nevada, unpublished M.S. thesis, 61 p.
- Oliver, H.W., 1977, Gravity and magnetic investigations of the Sierra Nevada batholith, California: Geological Society of America Bulletin, v. 88, no. 3, p. 445–461.
- Oliver, H.W., and Robbins, S.L., 1982, Bouguer gravity map of California, Fresno sheet: California Division of Mines and Geology, scale 1:250,000, 23 p.
- Pakiser, L.C., 1960, Transcurrent faulting and volcanism in Owens Valley, California: Geological Society of America Bulletin, v. 71, no. 2, p. 153–160.
- Pakiser, L.C., and Kane, M.F., 1962, Geophysical study of Cenozoic geologic structures of northern Owens Valley, California: Geophysics, v. 27, no. 3, p. 334–342.
- Pakiser, L.C., Kane, M.F., and Jackson, W.H., 1964, Structural geology and volcanism of Owens Valley region, California—A geophysical study: U.S. Geological Survey Professional Paper 438, 65 p.
- Pistrang, M.A., and Kunkel, Fred, 1964, A brief geologic and hydrologic reconnaissance of the Furnace Creek Wash area, Death Valley National Monument, California: U.S. Geological Survey Water-Supply Paper 1779-Y, 35 p.
- Prodehl, Claus, 1979, Crustal structure of the Western United States: U.S. Geological Survey Professional Paper 1034, 74 p.
- Prudic, D.E., 1989, Documentation of a computer program to simulate stream-aquifer relations using a modular, finite-difference, ground-water flow model: U.S. Geological Survey Open-File Report 88-729, 113 p.
- Putnam, W.C., 1950, Morain and shoreline relationships at Mono Lake, California: Geological Society of America Bulletin, v. 61, no. 1, p. 115–122.
- Rachocki, A.H., 1981, Alluvial fans: New York, John Wiley, 157 p.
- Radell, M.J., 1989, Three-dimensional groundwater model use and application—Bishop Basin, Owens Valley, California: Tucson, University of Arizona, Department of Hydrology and Water Resources, unpublished M.S. thesis, 105 p.
- Reginato, R.J., Jackson, R.D., and Pinter, P.J., Jr., 1985, Evapotranspiration calculated from remote multispectral and ground station meteorological data: Remote Sensing Environment, v. 18, p. 75–89.
- Reichard, E.G., and Meadows, J.K., 1992, Evaluation of a ground-water flow and transport model of the upper Coachella Valley, California: U.S. Geological Survey Water-Resources Investigations Report 91-4142, 101 p.
- Reisner, M.P., 1986, Cadillac desert—the American West and its disappearing water: New York, Viking Penguin, Inc., 582 p.
- Remson, Irwin, Hornberger, G.M., and Molz, F.J., 1971, Numerical methods in subsurface hydrology: New York, John Wiley, 389 p.
- Revelle, R.R., and Waggoner, P.E., 1983, Effects of carbon dioxide-induced climatic change on water supplies in the western United States, *in* Changing Climate, Washington, D.C., National Academy Press, p. 419–432.
- Richardson, L.K., 1975, Geology and the Alabama Hills: Reno, University of Nevada, unpublished M.S. thesis, 146 p.
- Rinehart, C.D., and Ross, D.C., 1957, Geologic map of the Casa Diablo quadrangle: U.S. Geological Survey Geologic Quadrangle Map GQ-99, scale 1:62,500.
- 1964, Geology and mineral deposits of the Mount Morrison quadrangle, Sierra Nevada, California: U.S. Geological Survey Professional Paper 385, 106 p.
- Roberts, R.J., 1968, Tectonic framework of the Great Basin, *in* A coast to coast tectonic study of the United States: Rolla, University of Missouri, Journal, no. 1, p. 101–119.
- Robinson, T.W., 1958, Phreatophytes: U.S. Geological Survey Water-Supply Paper 1423, 84 p.
- Rogers, P.P., and Fiering, M.B., 1986, Use of systems analysis in water management: Water Resources Research, v. 22, no. 9, p. 146S–158S.
- Ross, D.C., 1962, Correlation of granitic plutons across faulted Owens Valley, California: U.S. Geological Survey Professional Paper 450-D, p. D86–D88.
- 1965, Geology of the Independence quadrangle, Inyo County, California: U.S. Geological Survey Bulletin 1181-O, 64 p.
- 1967, Generalized geologic map of the Inyo Mountains region, California: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-506, scale 1:125,000.
- 1969, Descriptive petrography of three large granitic bodies in the Inyo Mountains, California: U.S. Geological Survey Professional Paper 601, 47 p.
- Russel, Steven, and Nokleberg, Warren, 1977, Superimposition and timing of deformations in the Mount Morrison roof pendant and in the central Sierra Nevada, California: Geological Society of America Bulletin, v. 88, no. 3, p. 335–345.
- Russell, I.C., 1889, Geological history of Mono Valley, California: U.S. Geological Survey Eighth Annual Report, p. 261–394.
- Saint-Amand, Pierre, Mathews, L.A., Gaines, Camille, and Reinking, Roger, 1986, Dust storms from Owens and Mono Valleys, California: Naval Weapons Center Technical Publication 6731, China Lake, California, 79 p.
- Sampson, R.J., 1978, Surface II graphics system: Kansas Geological Survey, 240 p.

- Sampson, R.J., 1988, Surface III: Kansas Geological Survey, 277 p.
- Savage, J.C., 1985, Deformation of Long Valley Caldera, California, 1982–1985: American Geophysical Union, EOS Abstracts, v. 66, no. 46, p. 852.
- Schaefer, D.H., 1978, Ground-water resources of the Marine Corps Base, Twentynine Palms, San Bernardino County, California: U.S. Geological Survey Water-Resources Investigations Report 77-37, 29 p.
- Schultz, J.R., 1937, A late Cenozoic vertebrate fauna from the Coso Mountains, Inyo County, California: Carnegie Institution of Washington, Publication 487, p. 75–109.
- Schweig, E.S., III, 1986, The inception of Basin and Range tectonics in the region between Death Valley and the Sierra Nevada, California: Geological Society of America Abstracts, v. 18, no. 2, p. 181.
- Sharp, R.P., 1972, Pleistocene glaciation, Bridgeport Basin, California: Geological Society of America Bulletin, v. 83, no. 8, p. 2233–2260.
- Sharp, R.P. and Birman, J.H., 1963, Additions to classical sequence of Pleistocene glaciations, Sierra Nevada, California: Geological Society of America Bulletin, v. 74, p. 1079–1086.
- Sharp, R.V. and Clark, M.M., 1972, Geologic evidence of previous faulting near the 1968 rupture on the Coyote Creek Fault in The Borrego Mountain Earthquake of April 9, 1968: U.S. Geological Survey Professional Paper 787, p. 131–140.
- Sheridan, M.F., 1965, The mineralogy and petrology of the Bishop Tuff: Stanford, California, Stanford University, unpublished Ph.D. thesis, 165 p.
- Sherlock, D.G., and Hamilton, W., 1958, Geology of north half of the Mt. Abbot quadrangle, Sierra Nevada, California: Geological Society of America Bulletin, v. 69, p. 1245–1268.
- Simpson, M.R., and Duell, L.F.W., Jr., 1984, Design and implementation of evapotranspiration measuring equipment for Owens Valley, California: Groundwater Monitoring Review, v. 4, no. 4, p. 155–163.
- Slatyer, R.O., 1967, Plant-water relationships: New York, Academic Press, 366 p.
- Smith, G.S., 1978, Deepest Valley: Genny Smith Books, distributed by William Kaufmann, Inc., Los Altos, California, 239 p.
- Smith, G.I., 1962, Subsurface stratigraphy of late Quaternary deposits, Searles Lake, California: A summary: U.S. Geological Survey Professional Paper 450-C, p. C65–C69.
- 1979, Subsurface stratigraphy and geochemistry of late Quaternary evaporites, Searles Lake, California, *with a section on Radiocarbon ages of stratigraphic units*, by Minze Stuiver and George I. Smith: U.S. Geological Survey Professional Paper 1043, 122 p.
- Smith, G.I., Barczak, V.J., Moulton, G.F., and Liddicoat, J.C., 1983, Core KM-3, a surface-to-bedrock record of late Cenozoic sedimentation in Searles Valley, California: U.S. Geological Survey Professional Paper 1256, 24 p.
- Smith, G.I., and Pratt, W.P., 1957, Core logs from Owens, China, Searles, and Panamint Basins, California: U.S. Geological Survey Bulletin 1045-A, 62 p.
- Smith, G.I., Freidman, I., Gleason, J., and Warden, A., 1992, Stable isotope composition of waters in southeastern California: 2. Groundwaters and their relation to modern precipitation: Journal of Geophysical Research, v. 97, D5, p. 5813–5823.
- Smith, M.O., Ustin, S.L., Adams, J.B., and Gillespie, A.R., 1990a, Vegetation in deserts: I. A regional measure of abundance from multispectral images: Remote Sensing of Environment, v. 29, p. 1–26.
- 1990b, Vegetation in deserts: II. Environmental influences on regional abundance: Remote Sensing of Environment, v. 29, p. 27–52.
- Snyder, C.T., Hardman, G., and Zdenek, F.F., 1964, Pleistocene lakes of the Great Basin: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-416.
- Snyder, J.P., 1982, Map projections used by the U.S. Geological Survey: U.S. Geological Survey Bulletin 1532, 313 p.
- 1985, Computer-assisted map projection research: U.S. Geological Survey Bulletin 1629, 157 p.
- 1987, Map projections—a working manual: U.S. Geological Survey Professional Paper 1395, 383 p.
- Sorenson, S.K., Dileanis, P.D., and Branson, F.A., 1991, Soil water and vegetation responses to precipitation and changes in depth to ground water in Owens Valley, California: U.S. Geological Survey Water-Supply Paper 2370-G, 54 p.
- Sorenson, S.K., Miller, R.F., Welch, M.R., Groeneveld, D.P., and Branson, F.A., 1989, Estimating soil matric potential in Owens Valley, California: U.S. Geological Survey Water-Supply Paper 2370-C, 18 p.
- Sorey, M.L., 1985, Evolution and present state of hydrothermal system in Long Valley caldera: American Geophysical Union, Journal of Geophysical Research, v. 90, no. B13, p. 11219–11228.
- Sorey, M.L., Lewis, R.E., and Olmsted, F.H., 1978, The hydrothermal system of Long Valley caldera, California: U.S. Geological Survey Professional Paper 1044-A, 60 p.
- Spurr, J.E., 1903, Nevada south of the fortieth parallel and adjacent portions of California: U.S. Geological Survey Bulletin 208, 229 p.
- State of California, 1992, Constitution of the State of California, article 10, section 3: as written May 1992.
- Stevens, C.H., and Olson, R.C., 1972, Nature and significance of the Inyo thrust fault, eastern California: Geological Society of America Bulletin, v. 83, no. 12, p. 3761–3768.

- Stewart, J.H., 1971, Basin and Range structure: A system of horsts and grabens produced by deep seated extension: *Geological Society of America Bulletin*, v. 82, no. 4, p. 1019–1044.
- 1978, Basin and Range structure in western North America: A review, *in* Smith, R.B., and Eaton, G.P., eds., *Cenozoic tectonics and regional geophysics in the western Cordillera*: Geological Society of America Memoir 152, p. 1–31.
- 1985, East-trending dextral faults in the western Great Basin: An explanation for anomalous trends of pre-Cenozoic strata and Cenozoic faults: *Tectonics*, v. 4, no. 6, p. 547–564.
- Stewart, J.H., Ross, D.C., Nelson, C.A., and Burchfiel, B.C., 1966, Last Chance thrust—A major fault in the eastern part of Inyo County, California: U.S. Geological Survey Professional Paper 550-D, p. D23–D34.
- Stinson, M.C., 1977a, Geology of the Haiwee Reservoir 15-minute quadrangle, Inyo County, California: California Division of Mines and Geology, map sheet 37, scale 1:62,500.
- 1977b, Geology of the Keeler 15-minute quadrangle, Inyo County, California: California Division of Mines and Geology, map sheet 38, scale 1:62,500.
- Stone, Paul, Conley, D.E., and Stevens, C.H., 1979, Late Permian orogenic strata in the southern Inyo Mountains, California: *Geological Society of America Abstracts*, v. 11, no. 3, p. 130.
- Stone, Paul, and Stevens, C.H., 1987, Stratigraphy of the Owens Valley Group (Permian), southern Inyo Mountains, California: *U.S. Geological Survey Bulletin* 1692, 19 p.
- Sylvester, A.G., 1985, Crustal tilting in Long Valley, California: U.S. Geological Survey Open-File Report 85-664, 40 p.
- Sylvester, A.G., Oertel, G., Nelson, C.A., and Christie, J.M., 1978, Papoose Flat pluton: A granitic blister in the Inyo Mountains, California: *Geological Society of America Bulletin*, v. 89, no. 8, p. 1205–1219.
- Thornbury, W.D., 1965, *Regional geomorphology of the United States*: New York, Wiley, 609 p.
- Tolman, C.F., 1937, *Groundwater*: New York, McGraw-Hill, 593 p.
- Trowbridge, A.C., 1911, The terrestrial deposits of Owens Valley, California: *Journal of Geology*, v. 19, p. 706–747.
- Twenhofel, W.H., and McKelvey, V.E., 1941, Sediments of fresh-water lakes: *American Association of Petroleum Geologists Bulletin*, v. 25, no. 5, p. 826–849.
- U.S. Bureau of Land Management, 1976a, Darwin Hills quadrangle: U.S. Bureau of Land Management Surface Management Map, scale 1:100,000.
- 1976b, Saline Valley quadrangle: U.S. Bureau of Land Management Surface Management Map, scale 1:100,000.
- 1976c, Benton Range quadrangle: U.S. Bureau of Land Management Surface Management Map, scale 1:100,000.
- 1978a, Three Rivers quadrangle: U.S. Bureau of Land Management Surface Management Map, scale 1:100,000.
- 1978b, Mount Whitney quadrangle: U.S. Bureau of Land Management Surface Management Map, scale 1:100,000.
- 1978c, Bishop quadrangle: U.S. Bureau of Land Management Surface Management Map, scale 1:100,000.
- U.S. Department of Commerce, 1990, 1990 Census of population, California.
- U.S. Environmental Protection Agency, 1977a, National interim primary drinking water regulations: Washington, U.S. Environmental Protection Agency Report EPA-570/9-76-003, 159 p.
- 1977b, National secondary drinking water regulations: *Washington Register*, v. 42, no. 62, p. 17143–17147.
- 1986, *Quality criteria for water*: Washington, U.S. Environmental Protection Agency, 256 p.
- U.S. Geological Survey, 1976–82, *Water resources data for California, water years 1975–81*. Volume 1: U.S. Geological Survey Water-Data Report CA-75-1 through CA-81-1 (published annually).
- 1983a, Aeromagnetic map of the central part of the Inyo National Forest, California: U.S. Geological Survey Open-File Report 83-655, scale 1:250,000.
- 1983b, Aeromagnetic map of the White and Inyo Mountains, California and Nevada: U.S. Geological Survey Open-File Report 83-656, scale 1:250,000.
- 1983c, Aeromagnetic map of the northern part of the Inyo National Forest, California and Nevada: U.S. Geological Survey Open-File Report 83-654, scale 1:250,000.
- Van Wormer, J.D., and Ryall, A.S., 1980, Seismicity related to structure and active tectonic processes in the western Great Basin, Nevada and eastern California, *in* *Proceedings of Conference X: Earthquake hazards along the Wasatch Sierra–Nevada frontal fault zones*: U.S. Geological Survey Open-File Report 80-801, p. 37–61.
- Waite, R.B., Jr., 1981, Concepts of classification and nomenclature for surficial deposits: U.S. Geological Survey Open-File Report 81-28, 26 p.
- Walcott, C.D., 1897, The post-Pleistocene elevation of the Inyo Range, and the lake beds of Waucobi embayment, Inyo County, California: *Journal of Geology*, v. 5, p. 340–348.
- Wallace, R.E., 1984, Patterns and timing of late Quaternary faulting in the Great Basin province and relation to some regional tectonic features: *Journal of Geophysical Research*, v. 89, no. B7, p. 5763–5769.

- Walt, C.L., 1987, Hydrogeology of the Independence Area, Owens Valley, California: San Diego, San Diego State University, Geology Department, unpublished senior thesis, 55 p.
- Wang, H.F., and Anderson, M.P., 1982, Introduction to groundwater modeling: San Francisco, W.H. Freeman, 237 p.
- Weibull, W., 1939, A statistical study of the strength of materials: Ing. Vetenskaps Akad. Handl. (Stockholm), v. 151, p. 15.
- Weiss, J.S., and Williamson, A.K., 1985, Subdivision of thick sedimentary units into layers for simulation of ground-water flow: *Groundwater*, v. 23, no. 6, p. 767–774.
- Welch, M.R., 1988, A transpiration model for shallow groundwater alkaline scrub vegetation incorporating soil water and canopy elements: Irvine, University of California, School of Engineering, unpublished Ph.D. dissertation, 263 p.
- Welch, T.C., 1979, Superposed Mesozoic deformations in the southern White Mountains, eastern California: *Geological Society of America Abstracts*, v. 11, no. 3., p. 134–135.
- Wigley, T.M.L., and Jones, D., 1985, Influences of precipitation changes and direct CO² effects on streamflow: *Nature*, v. 314, p. 149–152.
- Williams, D.E., 1966, Water resources development study for proposed Los Angeles Aqueduct second barrel: Los Angeles Department of Water and Power (unpublished report), 62 p.
- 1969, Preliminary geohydrologic study of a portion of the Owens Valley ground-water reservoir: Socorro, New Mexico Institute of Mining and Technology, unpublished Ph.D. thesis, 194 p.
- 1970, Use of alluvial faults in the storage and retention of ground water: *Groundwater*, v. 8, no. 5, p. 25–29.
- Williams, P.B., 1978, Changes in the Owens Valley shallow groundwater levels from 1970 to 1978: Prepared for the Inyo County Board of Supervisors, 50 p.
- Williams, T.R., and Bedinger, M.S., 1984, Selected geologic and hydrologic characteristics of the Basin and Range province, Western United States, Pleistocene lakes and marshes: U.S. Geological Survey Miscellaneous Geologic Investigations Map I-1522-D.
- Wilson, D.H., Reginato, R.J., and Hollett, K.J., eds., 1992, Evapotranspiration measurements of native vegetation Owens Valley, California, June 1986: U.S. Geological Survey Water-Resources Investigations Report 91-4159, 83 p.
- Wood, S.H., 1983, Chronology of late Pleistocene and Holocene volcanics, Long Valley and Mono Basin geothermal areas, eastern California: U.S. Geological Survey Open-File Report 83-747. 77 p.
- Wood, W.W., and Fernandez, L.A., 1988, Volcanic rocks, *in* Back, W., Rosenshein, J.S., and Seaber, P.R., eds., Hydrogeology, v. 0–2 of *The Geology of North America*: Boulder, Colorado, Geological Society of America Bulletin.
- Yates, E.B., 1985, Optimal conjunctive use of groundwater and surface water in the Salinas Valley, California: Davis, University of California, Water Sciences Department, unpublished M.S. thesis, 179 p.
- Yeh, W. W-G., 1986, Review of parameter identification procedures in groundwater hydrology: The inverse problem: *Water Resources Research*, v. 22, no. 2, p. 95–108.
- Yen, Chung-Cheng, 1985, A deterministic-probabilistic modeling approach applied to the Owens Valley groundwater basin: Irvine, University of California, School of Engineering, unpublished Ph.D. dissertation, 199 p.
- Yen, Chung-Cheng, and Guymon, G.L., 1988, An efficient deterministic-probabilistic approach to modeling regional ground-water flow: Theory: U.S. Geological Survey Open-File Report 88-90, 42 p.
- Young, R.A., and Bredehoeft, J.D., 1972, Digital computer simulation for solving management problems of conjunctive groundwater and surface water systems: *Water Resources Research*, v. 8, no. 3, p. 533–556.