

APPENDIXES

AM 01596

**APPENDIX A
SELECTED REFERENCES**

APPENDIX A
SELECTED REFERENCES

- Ahloth, J., 1997, Santa Maria Valley Water Level Record, Memorandum: Santa Barbara County Flood Control & Water Conservation District and Water Agency.
- Alterman, I. B., McMullen, R. B., Cluff, L. S., and Slemmons, D. B., 1994, Seismotectonics of the Central Coast Ranges: Boulder, Colorado, Geological Society of America Special Paper 292.
- Arthur D. Little, 1997, Guadalupe Oil Field Remediation and Abandonment Project, Public Draft Environmental Report: *prepared for* the San Luis Obispo County Department of Planning and Building.
- Ayers, R. S., 1977, Quality of water for irrigation: Journal of the Irrigation and Drainage Division, Proceedings of the American Society of Civil Engineers, vol. 163, no. IR2, p. 135-154.
- Back, W., Rosenheim, J. S., and Seaber, P. R., eds., 1988, Hydrogeology: Boulder, Colorado, Geological Society of America, The Geology of North America v. O-2.
- Bennion, D. W., and Griffiths, J. C., 1966, A stochastic model for predicting variations in reservoir rock properties: Transactions American Institute of Mining and Metallurgical Engineers, v. 237, no. 2, p. 9-16.
- Bentall, R., compiler, 1963a, Methods of Determining Permeability, Transmissibility and Drawdown: U. S. Geological Survey Water-Supply Paper 1536-I.
- , 1963b, Shortcuts and Special Problems in Aquifer Tests: U. S. Geological Survey Water-Supply Paper 1545-C.
- Blake, M. C., Jr., and 7 others, 1978, Neogene basin formation in relation to plate-tectonic evolution of the San Andreas fault system, California: American Association of Petroleum Geologists Bulletin, v. 62, no. 3, p. 344-372.
- Blaney, H. F., Nixon, P. R., Lawless, G. P., and Widman, E. J., 1963, Utilization of the waters of the Santa Ynez River Basin for agriculture in southern Santa Barbara County, California: U. S. Department of Agriculture, Agricultural Research Service, 53 p.
- Buchanan-Banks, J. M., Pampeyan, E. H., Wagner, H. C., McCulloch, D. S., 1978, Preliminary Map Showing Recency of Faulting in Coastal South-Central California: U.S. Geological Survey Miscellaneous Field Studies, Map MF-910, 3 sheets, scale 1:250,000.

California Department of Fish and Game, 1976, Natural Resources of Pismo Dunes and Wetlands: p. 86-87.

California Department of Public Works, Division of Water Resources, 1921, Investigation of Lopez Creek as a Source of Water Supply for the City of San Luis Obispo: 6 p.

----, 1934, South Coastal Basin Investigation - Geology and Ground Water Storage Capacity of Valley Fill: Bulletin No. 45.

----, 1945, Memorandum Report on Arroyo Grande Creek, San Luis Obispo County, California: 21 p.

----, 1953, Survey of Petroleum Industry Waste Disposal Practices, Arroyo Grande Oil Field, San Luis Obispo County: Water Quality Investigations, *prepared for* Central Coastal Regional Water Pollution Control Board, 14 p.

California Department of Water Resources, 1958, San Luis Obispo County Investigation: Bulletin No. 18, vols. I and II, *prepared for* State Water Resources Board and County of San Luis Obispo.

----, 1961, Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County: Bulletin 104, Appendix A, Ground Water Geology, attachment 2.

----, 1962a, Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County: Bulletin 104, Appendix B, Safe Yield Determinations.

----, 1962b, Investigation of Nitrates in the Ground Water, Grover City, San Luis Obispo County: *prepared for* Central Coastal Regional Water Pollution Control Board.

----, 1964, Water Quality Objectives, Santa Maria River Valley: *prepared for* Central Coastal Regional Water Pollution Control Board.

----, 1965, Arroyo Grande Oil Field Investigation: *prepared for* Central Coastal Regional Water Pollution Control Board.

----, 1966, Progress Report on Sea-Water Intrusion: Pismo-Oceano Area, San Luis Obispo County: Southern District Report.

----, 1969, Memorandum Report on Present and Future Water Supply and Demand in the Central Coast Area.

----, 1969, Water Quality Conditions: Coastal Conditions, San Luis Obispo County: Southern District Memorandum Report.

- , 1970, Sea-Water Intrusion: Pismo - Guadalupe Area: Bulletin No. 63-3, 76 p.
- , 1971a, Preliminary Evaluation of the Water Supply of the Arroyo Grande and Paso Robles Areas.
- , 1971b, Water Well Standards, Arroyo Grande Basin, San Luis Obispo County: Bulletin No. 74-7, 35 p.
- , 1975, California's Ground Water: Bulletin No. 118, p. 40-44.
- , 1977, Paso Robles and the Arroyo Grande Area - A Water Resources Evaluation: Technical Information Record, 25 p.
- , 1979, Ground Water in the Arroyo Grande Area: Southern District Report, 108 p.
- , 1980, Ground Water Basins in California: Bulletin 118-80, p. 24-28.
- , 1986, San Luis Obispo County Master Water Plan Update: *prepared in cooperation with San Luis Obispo County Flood Control and Water Conservation District.*
- ; 1993, California Water Plan Update: Bulletin 160-93.
- , 1998, California Water Plan Update: Bulletin 160-98.
- California State Water Resources Board, 1951, Water Resources of California: Bulletin No. 1.
- Cardwell, W. T., and Parsons, R. L., 1945, Average permeabilities of heterogeneous oil sands: Transactions American Institute of Mining and Metallurgical Engineers, v. 169, p. 34-42.
- Chipping Geological Services, 1994, Black lake Canyon Geologic and Hydrologic Study, Draft: Los Osos, California.
- City of Arroyo Grande, 1990, Urban Water Management Plan Update.
- Clark, D. G., Slemmons, D. B., Caskey, S. J., and dePolo, D. M., 1994, Seismotectonics framework of coastal central California: *in* Alterman, I. B., et al., eds., 1994, Seismotectonics of the Central California Coast Ranges: Boulder, Colorado, Geological Society of America Special Paper 292, p. 9-30.
- Clark, D. H., Hall, N. T., Hunt, T. D., and Lettis, W. R., 1988, Style and timing of slip on the San Miguelito fault, San Luis Obispo County, California: Geological Society of America, Cordilleran Section, Abstracts with Programs, v. 20, no. 3, p. 150.
- Cleath & Associates, 1990, Water Levels at Nipomo Valley Speedling Corporation Project Site,

- San Luis Obispo County, Memorandum: San Luis Obispo, California.
- , 1994, Hilton Site Hydrogeologic Assessment Report: San Luis Obispo, California, *prepared for* South San Luis Obispo County Sanitation District, 6 p.
- , 1995, Groundwater supply management for the Bartleson Development Plan: *in* The Morro Group, Inc., 1996, Environmental Assessment of Water Resources Availability, Bartleson Development Plan, No.D930295D, Appendix B.
- , 1996a, USI, Water Resources Management Study for the Woodlands: San Luis Obispo, California, 55 p.
- , 1996b, USI, Status of Santa Maria Ground Water Basin: San Luis Obispo, California. 12 p.
- , 1996c, Ground Water Level Monitoring at Hilton Biosolids Application Site: San Luis Obispo, California, *prepared for* South San Luis Obispo County Sanitation District, 2 p.
- , 1998, Modeling Data and Information for the Woodlands Project, Woodlands Specific plan EIR: San Luis Obispo, California.
- Coastal Valley Engineering, Inc., 1976, Nipomo Community Services District, Feasibility Report, Proposed Well, Storage, and Transmission Main Facilities: San Luis Obispo, California, *prepared for* Nipomo Community Services District.
- Davis, S. N., 1969, Porosity and permeability of natural materials: *in* De Wiest, R. J. M., ed., Flow Through Porous Media: New York, Academic Press, p. 54-89.
- , 1988, Sandstones and shales: *in* Back, W., Rosenheim, J. S., and Seaber, P. R., eds., Hydrogeology: Boulder, Colorado, Geological Society of America, The Geology of North America v. O-2, p. 323-332.
- Davis, S. N., and DeWiest, R. J. M., 1966, Hydrogeology: New York, John Wiley & Sons, 463 p.
- Denise Duffy & Associates, 1991, Draft Environmental Impact Report for the Rancho Grande Subdivision: Monterey, California, *prepared for* The City of Arroyo Grande.
- Dibblee, T. W. Jr., 1950, Geology of Southwestern Santa Barbara County, California: California Division of Mines and Geology Bulletin 150, 95 p.
- , 1989, Geologic Map of the Point Sal and Guadalupe Quadrangles, Santa Barbara County, California: Santa Barbara, California, Dibblee Geological Foundation, Map No. DF-25, scale 1:24,000.
- , 1994, Geologic Map of the Santa Maria and Twitchell Dam Quadrangles, Santa Barbara and

- San Luis Obispo Counties, California: Santa Barbara, California, Dibblee Geological Foundation, Map No. DF-51, scale 1:24,000.
- Domenico, P. A., and Schwartz, F. W., 1990, *Physical and Chemical Hydrogeology*: New York, John Wiley & Sons.
- Envicom Corporation, 1975, *Seismic Safety Element, San Luis Obispo County, California: Calabasas, California, prepared for the San Luis Obispo County Planning Department*, p. 2.90.
- , 1982, *Development Constraints Analysis, Black Lake Golf Course, San Luis Obispo County, California: Calabasas, California, prepared for San Luis Obispo County*.
- Environmental Science Associates, 1996, *Final Woodland Specific Plan, Baseline Environmental Assessment and Constraints Analysis: Los Angeles, California*.
- Feigal, K. L., King, R. W., and Jordan, T. H., 1990, Geodetic measurement of tectonic deformation in the Santa Maria fold and thrust belt, California: *Journal of Geophysical Research*, v. 95, no. B3, p. 2679-2681.
- Ferguson, B. K., 1994, *Stormwater Infiltration: Boca Raton, Florida*, Lewis Publishers, CRC Press, Inc., 269 p.
- Frame, R. G., 1938, *Santa Maria Valley Oil Field: California Department of Conservation, Division of Oil and Gas*, v. 24, no. 2, p. 27-47.
- Freeze, R. A. and Cherry, J. A., 1979, *Groundwater: Englewood Cliffs, New Jersey*, Prentice-Hall Inc., 604 p.
- Gale, J. E., 1982, Assessing the permeability characteristics of fractured rock: *in* Narasimhan, T. N., ed., *Recent Trends in Hydrogeology*: Boulder, Colorado, Geological Society of America Special Paper 189, p. 163-181.
- Gawthrop, W. H., 1978, Seismicity and tectonics of the central California coastal region: *in* Silver, E. A, and Normark, W. R., *San Gregorio - Hosgri Fault Zone, California: California Division of Mines and Geology Special Report 137*, p. 45-56.
- Goss, R., and Reed, L., 1969, *Geophysical Investigation of the Arroyo Grande Below the Lopez Dam and Reservoir, San Luis Obispo County, California: Department of Geological Sciences, University of California, Riverside: prepared for San Luis Obispo County Flood Control and Water Conservation District*, 80 p.
- Hall, C. A., Jr., 1973, *Geology of the Arroyo Grande 15' Quadrangle, San Luis Obsipo County, California: California Division of Mines and Geology, Map Sheet 24, scale 1:48,000*, 7 p.

- , 1978, Origin and development of the Lompoc-Santa Maria pull-apart basin and its relation to the San Simeon-Hosgri strike-slip fault, western California: *in* Silver, E. A., and Normark, W. R., San Gregorio - Hosgri Fault Zone, California: California Division of Mines and Geology Special Report 137, p. 25-32.
- , 1981, San Luis transform fault and middle Miocene rotation of the western Transverse Ranges, California: *Journal of Geophysical Research*, v. 86, no. B2, p. 1015-1031.
- , 1982, Pre-Monterey Subcrop and Structure Contour Maps, Western San Luis Obispo and Santa Barbara Counties, South-Central California: U. S. Geological Survey Miscellaneous Field Studies, Map MF-1384, 6 sheets, scale 1:62,500, 28 p.
- Hall, C. A., Jr., and Corbato, C. E., 1967, Stratigraphy and structure of Mesozoic and Cenozoic rocks, Nipomo Quadrangle, southern Coast Ranges, California: *Geological Society of America Bulletin*, v. 78, p. 559-582.
- Hall, C. A., Jr., and Surdam, R. C., 1967, The San Luis Obispo-Nipomo areas, San Luis Obispo County, California: Boulder, Colorado, Geological Society of America, Cordilleran Section 63rd Annual Meeting Guidebook, p. 1-26.
- Hall, C. A., Jr., Ernst, W. G., Prior, S. W., and Wiese, J. H., 1979, Geologic Map of the San Luis Obispo-San Simeon Region, California: U.S. Geological Survey Miscellaneous Investigation Series Map I-1097, scale 1:48,000.
- Hanson, K. L., Wesling, J. R., Lettis, W. R., Kelson, K. I., and Mezger, L., 1994, Correlation, ages and uplift rates of Quaternary marine terraces: south-central coastal California: *in* Alterman, I. B., et al., eds., 1994, Seismotectonics of the Central California Coast Ranges: Boulder, Colorado, Geological Society of America Special Paper 292, p. 45-71.
- Heasler, H. P., and Surdam, R. C., 1984, A thermally subsiding basin model for the maturation of hydrocarbons in the Pismo Basin, California: *in* Surdam, R. C., ed., 1984, Stratigraphic, Tectonic, Thermal, and Diagenetic Histories of the Monterey Formation, Pismo and Huasna Basin, California: Society of Economic Paleontologists and Mineralogists Guidebook No. 2, p. 69-74.
- Heath, R. C., 1983, Basic Ground-Water Hydrology: U. S. Geological Survey Water-Supply Paper 2220, 84 p.
- Hem, J. D., 1985, Study and Interpretation of the Chemical Characteristics of Natural Water: U. S. Geological Survey Water-Supply Paper 2254, 264 p.
- Hoover & Associates, Inc., 1985a, Groundwater basin geology and hydrogeology: *in* Lawrance, Fisk & McFarland, Inc., 1985, Interim Report, Water Resources Management Program for Zone 3, San Luis Obispo County Flood Control and Water Conservation District,

Phase I, Appendix B.

- , 1985b, Stream infiltration study, Arroyo Grande Creek, zone 3 conjunctive use study, San Luis Obispo County, California: *in* Lawrance, Fisk & McFarland, Inc., 1985, Phase II Progress Report on Computer Modeling, Water Resources Management Program for Zone 3, San Luis Obispo County Flood Control and Water Conservation District, Appendix B.
- Hornafius, J. S., 1985, Neogene tectonic rotation of the Santa Ynez Range, western Transverse Ranges, California, suggested by paleomagnetic investigation of the Monterey Formation: *Journal of Geophysical Research*, v. 90, no. B14, p. 12503-12522.
- Hughes, J. I., 1977, Evaluation of Ground-Water Quality in the Santa Maria Valley, California: U. S. Geological Survey Water-Resources Investigations 76-128, 72 p.
- Hughes, J. L., and Freckleton, J. R., 1976, Ground-Water Data for the Santa Maria Valley, California: U. S. Geological Survey Open-File Report.
- Isherwood, D., 1981, Geoscience data base handbook for modeling a nuclear waste repository: U. S. Nuclear Regulatory Commission, NUREG/CR-0912, vols. 1 and 2, 315 p. and 331 p.
- Izbicki, J. A., 1991, Chloride sources in a California coastal aquifer, *in* Peters, H., ed., *Ground Water in the Pacific Rim Countries: American Society of Civil Engineers, IR Div/ASCE, Proceedings*, p. 71-77.
- James M. Montgomery Consulting Engineers, Inc., 1982, Ground Water Availability for the Proposed Black lake Golf Course Development Project: Pasadena, California, *prepared for* Plaza Builders, Incorporated.
- Jennings, C. W., 1958, Geologic Map of California, San Luis Obispo Sheet: California Division of Mines and Geology, Olaf P. Jenkins edition, scale 1:250,000.
- John Wallace and Associates, Consulting Engineers, 1996, Draft Reclamation Study for South San Luis Obispo County Sanitation District.
- Johnson, A. I., 1967, Specific Yield - Compilation of Specific Yields for Various Materials: U. S. Geological Survey Water-Supply Paper 1662-D, 74 p.
- Jones, Doug, 1997-1998, personal communication.
- Jones, K., Lawrance, C., Ahlroth, J., and MacDonald, P., 1977, Final Report, Adequacy of the Santa Maria Groundwater Basin: Santa Barbara County Water Agency, 51 p.

- Kablanow, R. I., II. and Surdam, R. C., 1984, Diagenesis and hydrocarbon generation in the Monterey Formation, Huasna Basin, California: *in* Surdam, R. C., ed., 1984, Stratigraphic, Tectonic, Thermal, and Diagenetic Histories of the Monterey Formation, Pismo and Huasna Basin, California: Society of Economic Paleontologists and Mineralogists Guidebook No. 2, p. 53-68.
- Keeney, D., 1986, Sources of nitrate to ground water: CRC Critical Reviews in environmental Control, v. 16, issue 3, p. 257-304.
- Kennedy/Jenks Consultants, 1995, Southland Wastewater Treatment Facility Expansion Report: Palo Alto, California, *prepared for* Nipomo Community Services District.
- Kleiner, B., and Graedel, T. E., 1980, Exploratory data analysis in the geophysical sciences: Review of Geophysics and Space Physics, v. 18, no. 3, p. 699-717.
- La Rocque, G. A., Jr., and others, 1950, Wells and Water Levels in Principal Ground-Water Basins in Santa Barbara County, California: U. S. Geological Survey Water-Supply Paper 1068, part 2.
- Lawrance, Fisk, & McFarland, Inc., 1985a, Interim Report, Water Resources Management Program for Zone 3, San Luis Obispo County Flood Control and Water Conservation District, Phase I: Santa Barbara, California, *prepared for* San Luis Obispo County Engineering Department.
- , 1985b, Phase II Progress Report on Computer Modeling, Water Resources Management Program for Zone 3, San Luis Obispo County Flood Control and Water Conservation District: Santa Barbara, California, *prepared for* San Luis Obispo County Engineering Department.
- , 1985c, Progress Report on Computer Modeling and other Factors, Phase III Work, Water Resources Management Program for Zone 3, San Luis Obispo County Flood Control and Water Conservation District: Santa Barbara, California, *prepared for* San Luis Obispo County Engineering Department.
- , 1993, Engineering Considerations of Groundwater Yields and Rights on the Nipomo mesa Sub-area, San Luis Obispo County, California: *prepared for* Nipomo Community Services District.
- Lawrence, E. D., 1958, Arroyo Grande (Edna) Oil Field: California Department of Conservation, Division of Oil and Gas, v. 44, no.1, p. 41-45.
- , 1964, Guadalupe Oil Field: California Department of Conservation, Division of Oil and Gas, v. 50, no. 2, p. 71-77.

- Lettis, W. R., and Hall, N. T., 1994, Los Osos fault zone, San Luis Obispo County, California: *in* Alterman, I. B., et al., eds., 1994, Seismotectonics of the Central California Coast Ranges: Boulder, Colorado, Geological Society of America Special Paper 292, p. 73-102.
- Lettis, W. R., and Hanson, K. L., 1992, Quaternary tectonic influences on coastal morphology, south-central California: *Quaternary International*, v. 15/16, p. 135-148.
- Lettis, W. R., Kelson, K. I., Wesling, J. R., Angell, M., Hanson, K. L., and Hall, N. T., 1994, Quaternary deformation of the San Luis Range, San Luis Obispo County, California: *in* Alterman, I. B., et al., eds., 1994, Seismotectonics of the Central California Coast Ranges: Boulder, Colorado, Geological Society of America Special Paper 292, p. 111-132.
- Lewis, L., Hubbard, P., Heath, E., Pace, A., eds., 1991, Southern Coast Ranges: Santa Ana, California, South Coast Geological Society Annual Field Trip Guidebook #19.
- Lipinski, P., 1985, Comparison of Two methods for Estimating Ground-Water Recharge in 1978-80, Santa Maria Valley, California: U. S. Geological Survey Water-Resources Investigations Report 85-4129, *prepared in cooperation with the Santa Barbara County Water Agency*, 17 p.
- Lloyd, J. W., and Heathcote, J. A., 1985, Natural Inorganic Hydrochemistry in Relation to Groundwater, An Introduction: Oxford, England, Clarendon Press.
- Lohman, S. W., 1972, Ground-water Hydraulics: U. S. Geological Survey Professional Paper 708, 70 p.
- Luhdorff & Scalmanini, Consulting Engineers, 1997, Special Assessments for Ground-Water Management, Santa Maria Valley Water Conservation District, Special Improvement District No. 1: Engineer's Report, *prepared for Santa Maria Valley Water Conservation District*.
- Luyendyk, B. P., Kamerling, M. J., and Terres, R., 1980, Geometric model for Neogene crustal rotations in southern California: *Geological Society of America Bulletin*, v. 91, p. 211-217.
- Manning, J. C., 1987, Applied Principles of Hydrology: Columbus, Ohio, Merrill Publishing Co., 277 p.
- McCulley, B., 1979, Sources of nitrate in Arroyo Grande Basin, California: *EOS*, v. 60, no. 46, p. 827.
- McKee, J. E. and Wolfe, H. W., eds., 1963, Water Quality Criteria: California State Water Resources Control Board, Pub. No. 3-A, 548 p.

- Mezger, E. L., Hanson, K. L., Hall, N. T., and Hunt, T. D., 1987, Evidence for Quaternary faulting in the Los Osos Valley, San Luis Obispo County, California: Geological Society of America Abstracts with Programs, v. 19, no. 6, p. 432.
- Miller, G. A., and Evenson, R. E., 1966, Utilization of Ground Water in the Santa Maria Valley Area, California: U. S. Geological Survey Water-Supply Paper 1819-A, 24 p.
- Montgomery Watson, 1995, Conformed Set, Central Coast Water Authority Coastal Branch Phase II, State Water Facilities, California Aqueduct, Contract Documents: Pasadena, California, v. II - Drawings, p. 5C-1- 5C-13A.
- Morro Group, 1990, Appendix A, review of groundwater conditions in the northern Santa Maria Basin and scenarios for the evaluation of impacts of development on the water resources of Nipomo Mesa: *in* The Morro Group, 1991, Final Environmental Impact Report, South County Area Plan Inland Portion; *prepared for* the Office of the Environmental Coordinator, County of San Luis Obispo, p. A1-A59.
- , 1991, Final Environmental Impact Report, South County Area Plan Inland Portion: *prepared for* the Office of the Environmental Coordinator, County of San Luis Obispo.
- , 1996a, Environmental Assessment of Water Resources Availability, Bartleson Development Plan: *prepared for* the County of San Luis Obispo Department of Planning and Building.
- , 1996b, Draft Environmental Impact Report, Cypress Ridge Tract Map and Development Plan: *prepared for* the Office of the Environmental Coordinator, San Luis Obispo County.
- Namson, J., and Davis T. L., 1990, Late Cenozoic fold and thrust belt of the southern Coast Ranges and the Santa Maria Basin, California: American Association of Petroleum Geologists Bulletin, v. 74, no. 4, p. 467-492.
- National Academy of Sciences and National Academy of Engineering, 1973 [1974], Water Quality Criteria 1972: U. S. Environmental Protection Agency, EPA R3-73-033, 594 pp.
- Nipomo Community Services District, 1995, A Groundwater Management Plan for the Nipomo Mesa (AB 3030): draft.
- Nitchman, S. P., 1988, Tectonic Geomorphology and Neotectonics of the San Luis Range, San Luis Obispo County, California [M. S. thesis]: Reno, University of Nevada.
- Nitchman, S. P., and Slemmons, D. B., 1994, The Wilmar Avenue fault: a late Quaternary reverse fault near Pismo Beach, California: *in* Alterman, I. B., et al., eds., 1994, Seismotectonics of the Central California Coast Ranges: Boulder, Colorado, Geological Society of America Special Paper 292, p. 103-110.

- Pacific Gas and Electric Company, 1988, Final Report of the Diablo Canyon Long-term Safety Program for the Diablo Canyon Power Plant: San Francisco, California, U. S. Nuclear Regulatory Commission, Docket Nos. 50-275, 50-323, p. 2-1 to 2-149.
- Page, B. M., 1981, The southern Coast Ranges: *in* Lewis, L., et al., eds., 1991, Southern Coast Ranges: Santa Ana, California, South Coast Geological Society Annual Field Trip Guidebook #19, p. 63-151.
- Peters, H. J., 1981, Groundwater basins: *in* Concepts of Groundwater Management, Notes for University of California, Davis Extension Course, section 3.
- Pomeroy, R. D. and Orlob, G. T., 1967, Problems of Setting Standards and of Surveillance for Water Quality Control: California State Water Resources Control Board, Pub. No. 36, 123 pp.
- Richter, R. C., and Chun, R. Y. D., 1959, Artificial recharge of ground water reservoirs in California: American Society of Civil Engineers, v.85 (IR4), p. 1-27.
- RRM Design Group, 1988, Los Robles Del Mar Specific Plan: *prepared for* The City of Pismo Beach, California, Administrative Draft.
- San Luis Obispo County Department of Planning and Building, 1992, Land Use Element - Circulation Element, San Luis Obispo County General Plan, San Luis Bay - Coastal Area Plan: adopted by Board of supervisors 1988, amended 1992.
- , 1994, Land Use Element-Circulation Element, San Luis Obispo County General Plan, South County Area Plan-Inland Area Plan.
- , 1995, Land Use Element-Circulation Element, San Luis Obispo County General Plan, Annual Resource Summary Report, 1994: Water Supply, p. 1-14; Water Systems, p. 1-13.
- San Luis Obispo County Engineering Department, 1994 (revised), Standard Improvement Specifications and Drawings, sections 11-351.1100 & 11-352.1000.
- Santa Barbara County Flood Control and Water Conservation District and Water Agency, 1996, Annual Santa Barbara County 1996 Groundwater Resources Report.
- Santa Barbara County Water Agency, 1994, Santa Maria Valley Water Resources Report, 114 p.
- Sedlock, R. L., and Hamilton, D. H., 1991, Late Cenozoic tectonic evolution of southwestern California: Journal of Geophysical Research, v. 96, no. B2, p. 2325-2351.
- Singer, J. A., and Swarzenski, W. V., 1970, Pumpage and Ground-Water Storage Depletion in Cuyama Valley, California, 1947-66: U. S. Geological Survey Open-file Report, 22 p.

- South San Luis Obispo County Sanitation District, 1996, Draft Reclamation Study.
- Southern California Water Company, Water Resources Department, 1991, Water Management Program for Santa Maria District: San Dimas, California.
- Stanley, K. O., and Surdam, R. C., 1984, The role of wrench fault tectonics and relative changes of sea level on deposition of upper Miocene-Pliocene Pismo Formation, Pismo Syncline, California: *in* Surdam, R. C., ed., 1984, Stratigraphic, Tectonic, Thermal, and Diagenetic Histories of the Monterey Formation, Pismo and Huasna Basin, California: Society of Economic Paleontologists and Mineralogists Guidebook No. 2, p. 21-37.
- Steritz, J. W., and Luyendyk, B. P., 1994, Hosgri fault zone, offshore Santa Maria Basin: *in* Alterman, I. B., et al., eds., 1994, Seismotectonics of the Central California Coast Ranges: Boulder Colorado, Geological Society of America Special Paper 292, p. 191-209.
- Swift, D. J. P., and Palmer, H. D., eds., 1978, Coastal sedimentation: Stroudsberg, Pennsylvania, Dowden, Hutchinson, and Ross, 339 p.
- Sylvester, A. G., and Darrow, A. C., 1979, Structure and neotronics of the western Santa Ynez fault system in southern California: *Tectonophysics*, v. 52, p. 389-405.
- Theis, C. V., 1935, The relation between the lowering of the piezometric surface and the rate and duration of discharge of a well using ground-water storage: *American Geophysical Union Transactions*, pt. 2, p. 519-524.
- Thomasson, H. G., Jr., Olmstead, F. H., and LeRoux, E. F., 1960, Geology, Water Resources and Usable Ground-Water Storage Capacity of Part of Solano County, California: U. S. Geological Survey Water-Supply Paper 1464, p. 207-223.
- Toups Corporation, 1976, Santa Maria Valley Water Resources Study: Santa Ana, California, *prepared for* City of Santa Maria, 166 p.
- Tukey, J. W., 1977, *Exploratory Data Analysis*: Reading, Massachusetts, Addison-Wesley.
- U.S. Department of Agriculture, Soil Conservation Service, 1977, Soil Survey of San Luis Obispo County, California, Coastal Part.
- Upson, J. E., and Thomasson, H. G., Jr., 1951, Geology and Water Resources of the Santa Ynez River basin, Santa Barbara County, California: U. S. Geological Survey Water-Supply Paper 1107.
- U. S. Geological Survey, 7.5' Quadrangles, scale 1:24, 000: Arroyo Grande NE Quadrangle, California - San Luis Obispo Co., 1965, photo revised 1978; Caldwell Mesa Quadrangle, California, 1967; Guadalupe Quadrangle, California, 1959, photo revised 1982; Huasna

- Peak Quadrangle, California, 1967, photo revised 1974; Nipomo Quadrangle, California - San Luis Obispo Co., 1965; Oceano Quadrangle, California - San Luis Obispo Co., 1965, photo revised 1979; Pismo Beach Quadrangle, California - San Luis Obispo Co., 1965, photo revised 1978; Point Sal Quadrangle, California, 1958, photo revised 1974; Santa Margarita Lake Quadrangle, California, 1967; Santa Maria Quadrangle, California, 1959, photo revised 1982; Tar Springs Ridge Quadrangle, California - San Luis Obispo Co., 1967; Twitchell Dam Quadrangle, California, 1959, photo revised 1982.
- URS Corporation, 1986, San Miguel Project and Northern Santa Maria Basin Area Study, Final Environmental Impact Statement/Environmental Impact Report.
- Vittori, E., Nitchman, S. P., and Slemmons, D. B., 1994, Stress pattern from late Pliocene and Quaternary brittle deformation in coastal central California: *in* Alterman, I. B., et al., eds., 1994, Seismotectonics of the Central California Coast Ranges: Boulder, Colorado, Geological Society of America Special Paper 292, p. 31-43.
- Waring, G. A., 1915, Springs of California: U. S. Geological Survey Water-Supply Paper 338, p. 68-69.
- Warren, J. E., and Price, H. S., 1961, Flow in heterogeneous porous media: *Journal of Society of Petroleum Engineers*, v. 1, p. 153-169.
- Water Advisory Committee, 1991, Long-Term Water Management Plan: Report to the City Council of the City of Santa Maria.
- Weber and Associates, 1990, Geology: *in* Denise Duffy & Associates, 1991, Draft Environmental Impact Report for the Rancho Grande Subdivision: Monterey, California, *prepared for* City of Arroyo Grande, p. 9.
- Weber, G. E., Lettis, W. R., and Hanson, K. L., 1987, Late Pleistocene uplift rates along the central California coast, Cape San Martin to Santa Maria Valley: *Geological Society of America Abstracts with Programs*, v. 19, no. 6, p. 462.
- Wenzel, L. K., 1942, Methods for Determining Permeability of Water-Bearing Materials, with Special Reference to Discharging-Well Methods: U. S. Geological Survey Water-Supply Paper 887.
- Winograd, I. J., 1975, Hydrogeology of ash-flow tuff: A preliminary statement: *Water Resources Research*, v. 7, no. 4, p. 994-1006.
- Winograd, I. J., and Thordarson, W., 1975, Hydrogeologic and Hydrochemical Framework, South-Central Nevada - California, with Special Reference to the Nevada Test Site: U. S. Geological Survey Professional Paper 712C, 126 p.
- Wood, W. W., and Fernandez, L. A., 1988, Volcanic rocks: *in* Back, W., Rosenheim, J. S., and

- Seaber, P. R., eds., 1988, Hydrogeology: Boulder, Colorado, Geological Society of America, The Geology of North America v. O-2, p. 353-365.
- Woodring, W. P., and Bramlette, M. N., 1950, Geology and Paleontology of the Santa Maria District, California: U. S. Geological Survey, Professional Paper 222, 142 p.
- Worts, G. F., 1951, Geology and Ground-Water Resources of the Santa Maria Valley Area, California: U. S. Geological Survey Water-Supply Paper 1000, 169 p.
- Yates, E. B., and Wiese, J. H., 1988, Hydrogeology and Water Resources of the Los Osos Valley Ground-water Basin, San Luis Obispo County, California: U. S. Geological Survey Water Resources Investigations Report 88-4081.
- Yates, E. B., and Van Konyenburg, K. M., 1998, Hydrogeology, Water Quality, Water Budgets, and Simulated Responses to Hydrologic Changes in Santa Rosa and San Simeon Creek Ground-water Basins, San Luis Obispo County, California: U. S. Geological Survey Water Resources Investigations Report 98-4061.

**APPENDIX B
BASE HYDROLOGIC PERIOD
AND PRECIPITATION DATA**

B1

APPENDIX B

BASE HYDROLOGIC PERIOD

The base period should be representative of long-term hydrologic conditions, encompassing dry, wet, and average years of precipitation. It must be contained within the historic record and should include recent cultural conditions to assist in determining projected basin operations. To minimize the amount of water in transit in the zone of aeration, the beginning and end of the base period should be preceded by comparatively similar rainfall quantities.

Precipitation

Figures B1, B2, and B3 depict cumulative departure from mean precipitation for the period of record for California State Polytechnic University at San Luis Obispo, Nipomo 2NW, and Santa Maria City stations, respectively. Figure B1 shows a distinct three-cycle pattern of wet and dry years, with the ending of the fourth cycle impending. These cycles correspond to time periods 1884-1900, 1901-1934, and 1935-1966. A fourth cycle appears to have begun in 1967; however, the ending of the cycle cannot be determined from present data. Similar wet and dry trends, corresponding to those in approximately the same time frame as in Figure B1, may be seen in Figures B2 and B3.

Based on the data in Figures B1-B3 and criteria described above, water years 1984-1995 were selected as the base period for this study. This 12-year span includes the most recent pair of wet and dry trends, begins and ends after a series of wet years, lies within the period of available data, and encompasses recent cultural conditions. Water year 1994 for each of the three stations was classified as a dry year. However, the assumption is that the amount of vadose water in the zone of aeration at the beginning and end of the base period, 1984-1995, is not considered significant. The base period mean precipitation at California State Polytechnic University at San Luis Obispo, Nipomo 2NW, and Santa Maria City, 21.57 inches, 16.26 inches, and 11.52 inches, respectively, corresponds closely to the long-time period mean precipitation of 21.97 inches, 16.29 inches, and 13.41 inches, respectively.

Streamflow

A study of river and creek discharge records is desirable to ascertain if the selected base period is representative of long-term river discharge, as well as of long-term precipitation. Data from 10 river discharge stations were supplied by the County of San Luis Obispo and the United States Geological Survey. Data for each of the discharge stations are included in Appendix D. Several years of record were obtained from Balance Hydrologics, Inc. for the Pismo Creek watershed.

Analysis of the San Luis Obispo County and USGS data showed that the stations at Arroyo Grande Creek at Arroyo Grande and at Sisquoc River near Garey were representative of nearby river discharge based on the length of record available, proximity to the study area, and reliability of the data.

Figures B4 and B5 show annual discharge and long-term mean discharge for the period of record for the stations at Arroyo Grande Creek at Arroyo Grande and at Sisquoc River near Garey. The 12-year base period mean discharge of Arroyo Grande Creek at Arroyo Grande (1984-1995), which amounts to 5,851 AF, is about half of the long-term period mean discharge (1947-1995) of 10,966 acre-feet (Figure B6). There should be a better correlation between long-term period mean discharge and the 12-year base period mean discharge; however, the operation of Lopez Reservoir and mechanical failure of the recording gage may account for the discrepancy.

Mean discharge of the Sisquoc River near Garey for 1984-1995 amounted to 64,433 AF, compared to the long-term period mean discharge (1942-1995) of 34,209 AF (Figure B7). There should be a better correlation between long-term mean period discharge and the 12-year base period mean discharge; however, the operation of Twitchell Reservoir and mechanical failure of the recording gage may account for this discrepancy.

The base period and long-term period mean discharges for the stations at Arroyo Grande Creek at Arroyo Grande and at Sisquoc River near Garey differ by 87 percent and 88 percent, respectively.

Figure B8 depicts Pismo Creek station discharge for water years 1990-1992. Precipitation at the A. B. Cunningham at Oak Park station for water years 1990, 1991, and 1992 amounted to 8.10, 17.31 and 22.12 inches, respectively. Pismo Creek discharge shown on Figure B8 correlates well with the A. B. Cunningham at Oak Park precipitation data.

FIGURE B1 - CUMULATIVE DEPARTURE FROM MEAN PRECIPITATION
 CALIFORNIA POLYTECHNIC UNIVERSITY, SAN LUIS OBISPO

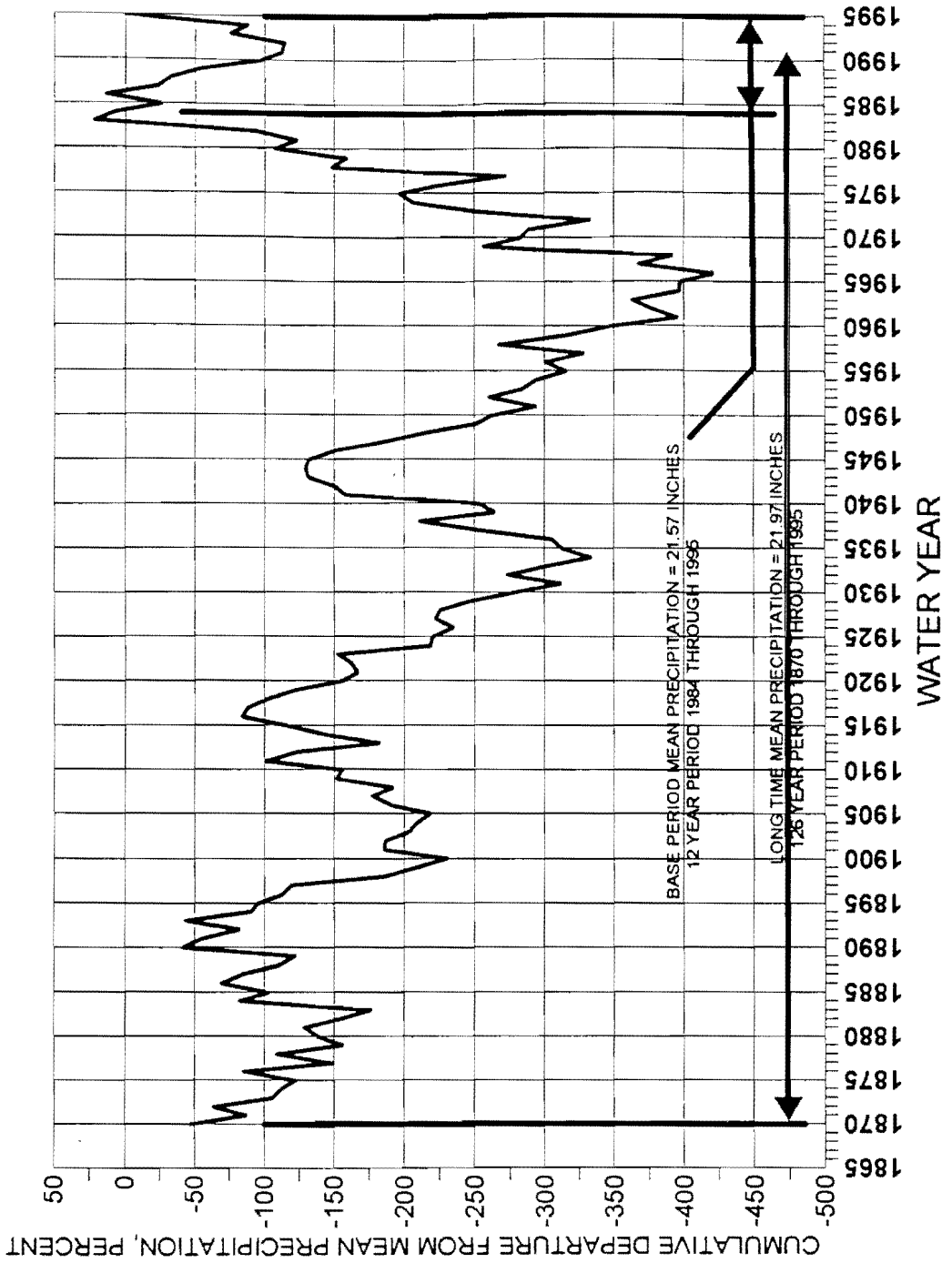


FIGURE B2 - CUMULATIVE DEPARTURE FROM MEAN PRECIPITATION
NIPOMO 2NW

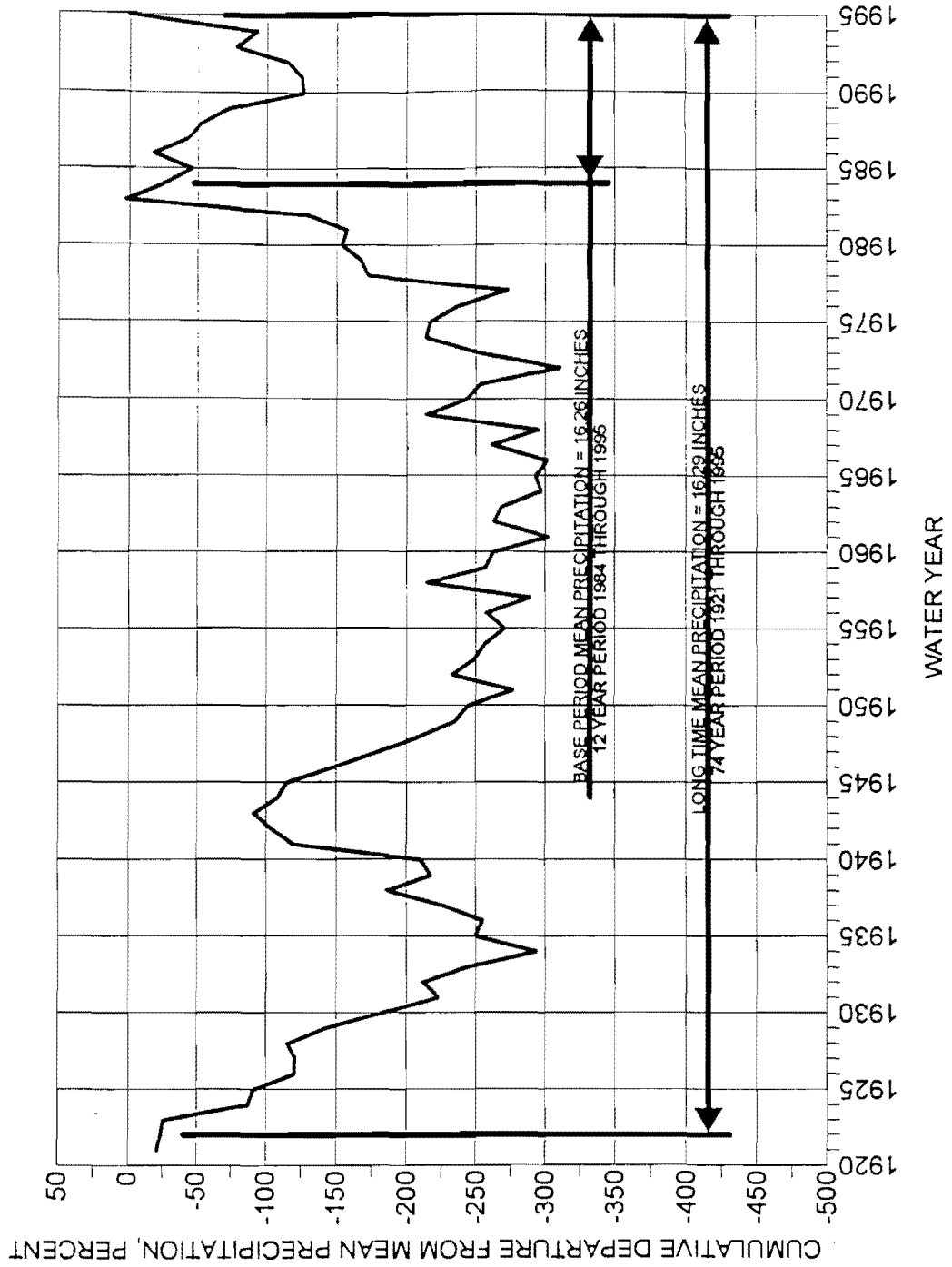


FIGURE B3 - CUMULATIVE DEPARTURE FROM MEAN PRECIPITATION
CITY OF SANTA MARIA

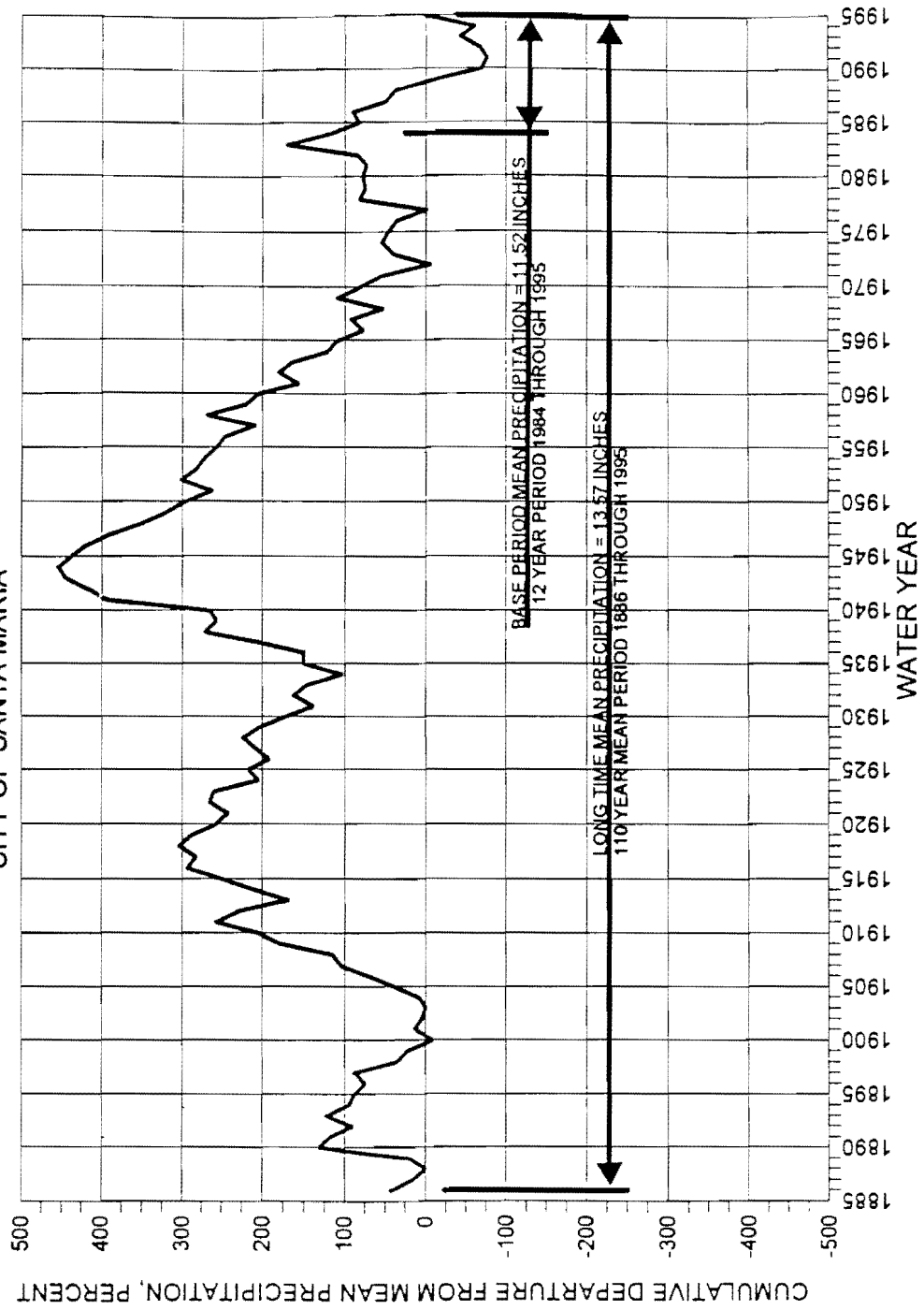
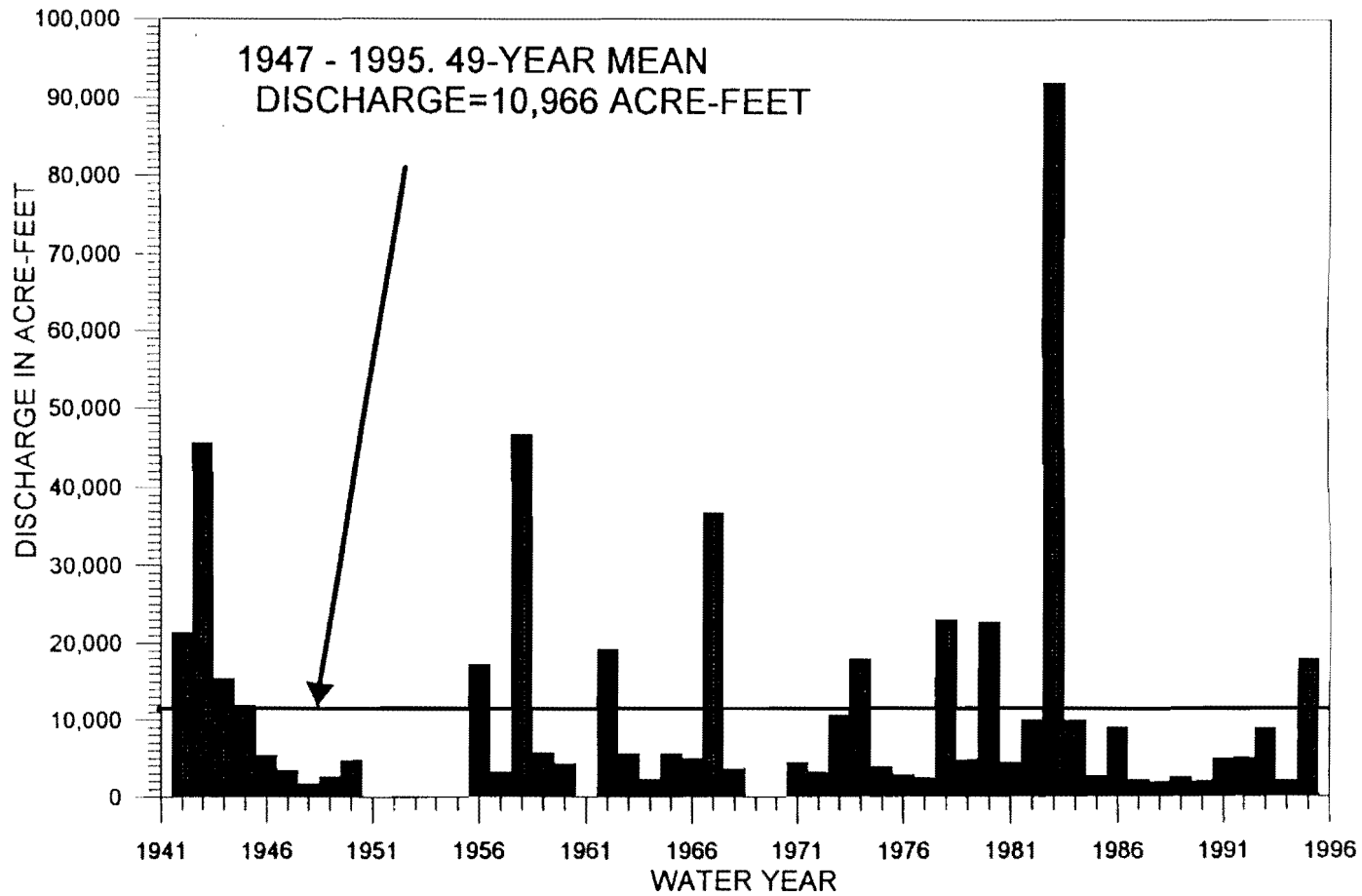


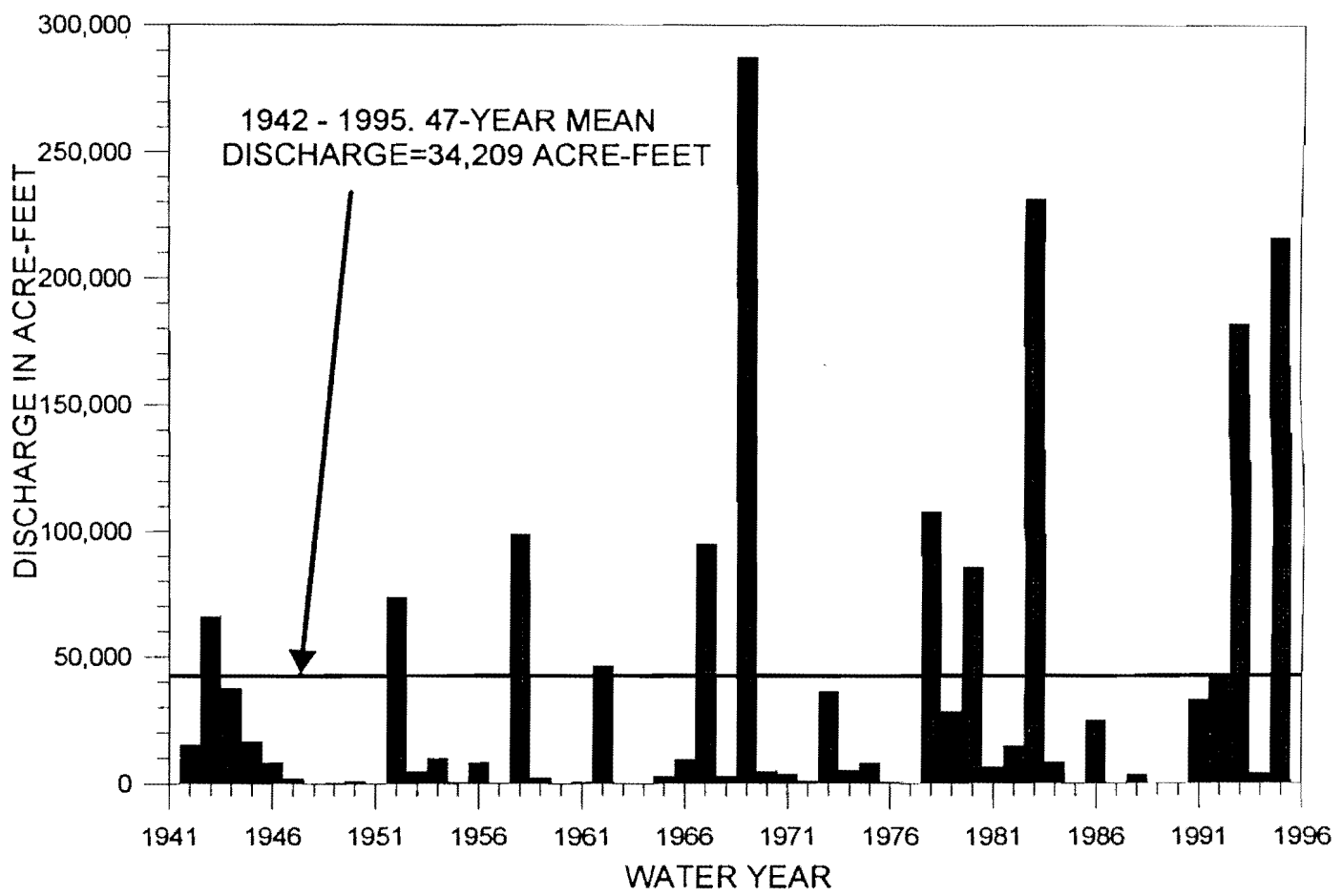
FIGURE B4 - ANNUAL DISCHARGE
ARROYO GRANDE CREEK AT ARROYO GRANDE



B7

AM 01618

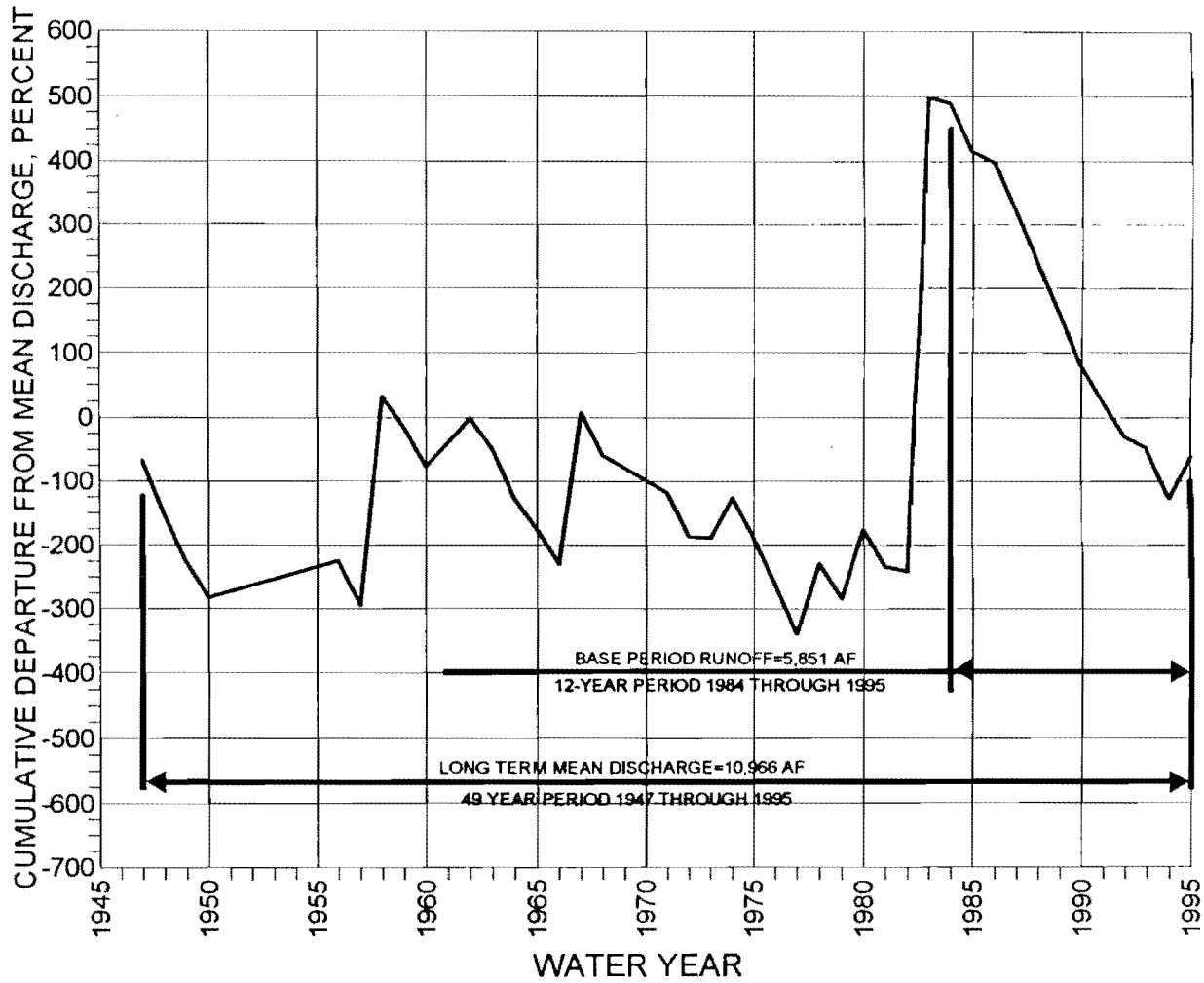
FIGURE B5 - ANNUAL DISCHARGE
SISQUOC RIVER NEAR GAREY



B8

AM 01619

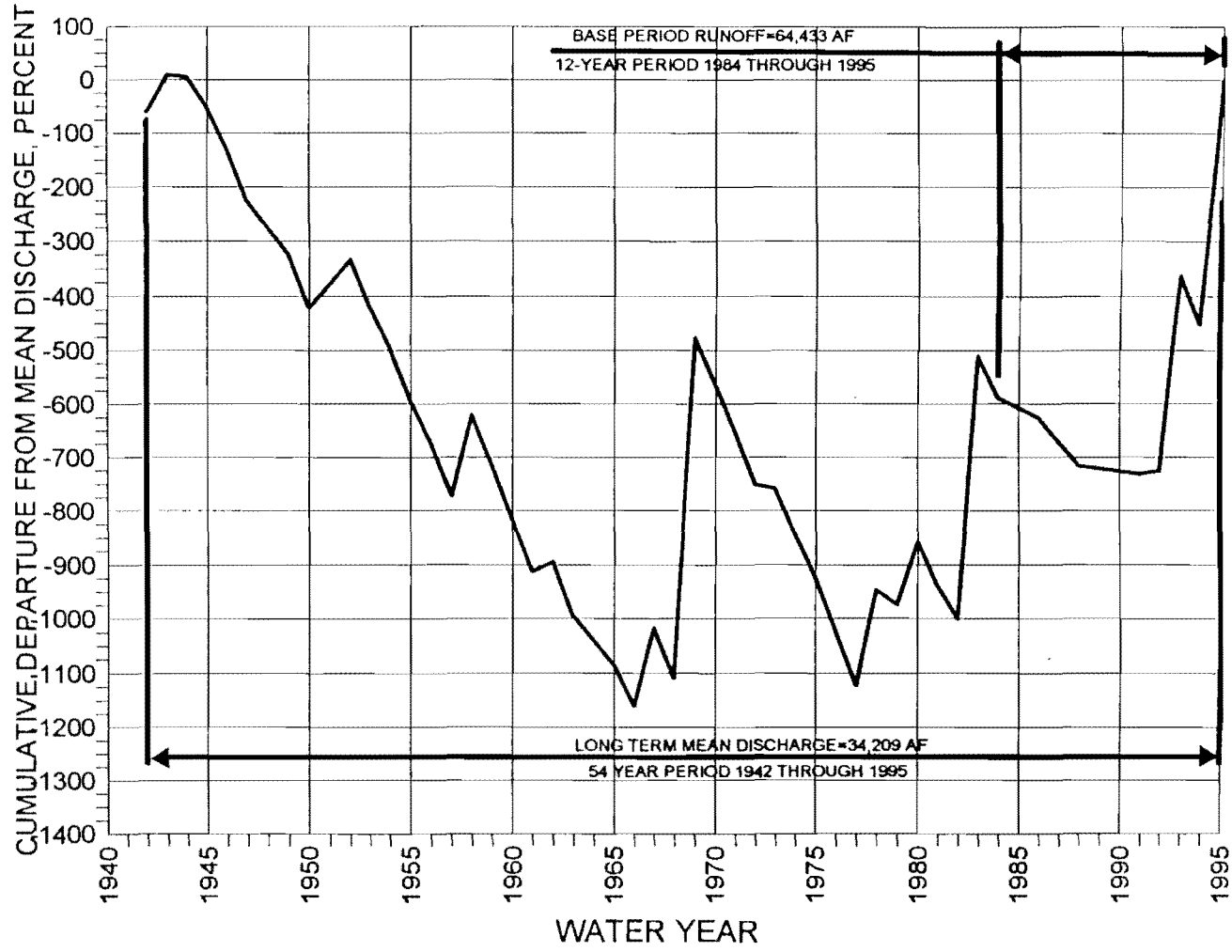
FIGURE B6 - CUMULATIVE DEPARTURE FROM MEAN DISCHARGE
ARROYO GRANDE CREEK AT ARROYO GRANDE



B9

AM 01620

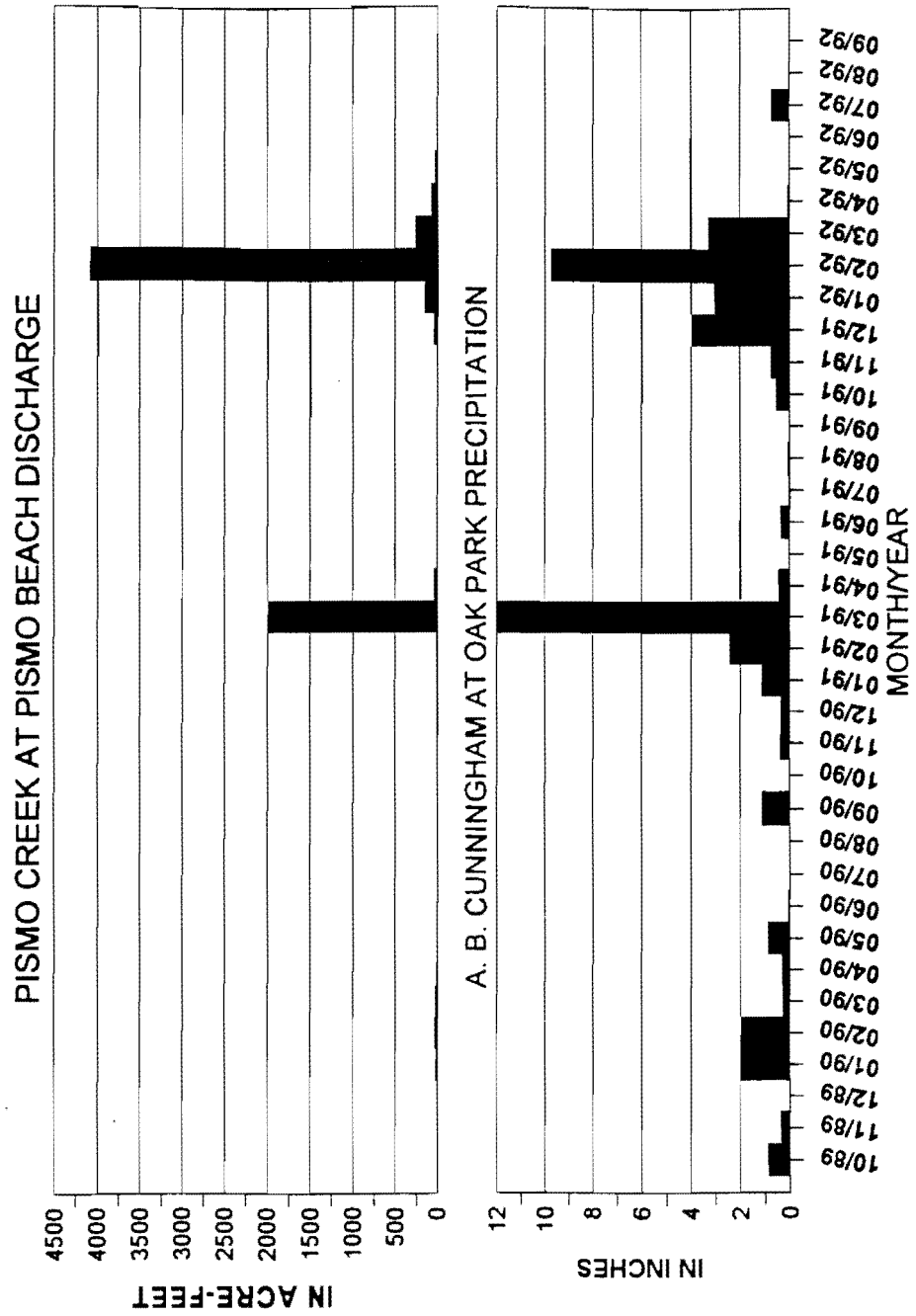
FIGURE B7 - CUMULATIVE DEPARTURE FROM MEAN DISCHARGE
SISQUOC RIVER NEAR GAREY



B10

AM 01621

FIGURE B8 - DISCHARGES OF PISMO CREEK AT PISMO BEACH AND PRECIPITATION AT A. B. CUNNINGHAM, OAK PARK



PRECIPITATION IN INCHES

STATION NAME: CA. ST. POLYTECHNIC U.
 LOCATION: SAN LUIS OBISPO
 GAGE NO: 1.0
 ELEVATION: 300 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 30 SOUTH
 RANGE: 12 EAST
 SECTION: 23D

LONGITUDE: 120-39-47
 LATITUDE: 35-18-20
 RECORD BEGAN: 1870

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1870	0.84	0.66	0.78	0.71	4.85	0.74	2.40	0.85	0.00	0.00	0.00	0.00	11.83
1871	0.68	0.38	2.90	1.51	4.43	0.00	2.79	0.28	0.00	0.00	0.00	0.00	12.97
1872	0.00	2.40	13.93	5.16	3.45	0.71	1.37	0.00	0.00	0.00	0.00	0.00	27.02
1873	0.00	0.00	6.00	5.00	1.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.79
1874	0.00	0.00	7.96	4.29	4.04	3.23	1.00	0.00	0.00	0.00	0.00	0.00	20.52
1875	4.28	2.05	0.48	12.10	0.28	0.50	0.00	0.00	0.00	0.00	0.00	0.00	19.69
1876	0.00	6.20	2.20	9.87	5.29	5.30	1.26	0.00	0.00	0.00	0.00	0.00	30.12
1877	1.16	0.00	0.00	4.83	0.42	1.74	0.00	0.00	0.00	0.00	0.00	0.00	8.15
1878	0.00	1.42	3.90	7.88	11.91	2.74	2.75	0.00	0.00	0.00	0.00	0.00	30.60
1879	0.00	1.50	2.58	1.78	2.15	1.60	1.80	0.25	0.00	0.00	0.00	0.00	11.66
1880	0.75	1.40	3.03	1.75	7.23	2.36	8.78	0.52	0.00	0.00	0.00	0.00	25.82
1881	0.00	0.48	13.35	4.71	1.90	1.40	1.85	0.00	0.00	0.00	0.00	0.40	24.09
1882	1.65	0.25	2.00	0.85	3.40	6.75	1.73	0.00	0.00	0.00	0.00	0.00	16.63
1883	0.69	2.95	0.44	1.50	1.60	4.88	1.10	3.85	0.00	0.00	0.00	0.00	17.01
1884	0.00	0.00	3.56	10.57	10.21	12.41	3.39	0.00	2.26	0.00	0.00	0.00	42.40
1885	2.17	0.13	8.85	2.25	0.00	0.94	3.15	0.10	0.00	0.00	0.00	0.00	17.59
1886	0.04	12.90	3.67	5.78	0.79	2.37	3.75	0.00	0.00	0.00	0.00	0.00	29.30
1887	0.25	1.25	1.06	1.10	9.60	1.29	1.56	0.36	0.07	0.02	0.00	2.05	18.61
1888	0.25	1.40	3.15	7.02	0.28	3.84	0.14	0.16	0.04	0.00	0.00	0.00	16.28
1889	0.00	4.48	3.36	1.50	2.08	7.51	0.61	0.00	0.00	0.00	0.00	0.00	19.54
1890	9.19	2.46	11.37	7.27	4.67	3.07	0.29	0.41	0.00	0.00	0.00	0.82	39.55
1891	0.00	0.42	6.04	0.88	7.14	1.97	1.96	0.13	0.15	0.00	0.00	0.27	18.96
1892	0.00	0.20	5.15	0.70	2.88	4.25	0.60	2.23	0.05	0.00	0.00	0.00	16.06
1893	0.15	2.76	6.57	4.02	6.35	9.33	1.14	0.08	0.00	0.00	0.00	0.03	30.43
1894	0.82	0.45	1.64	1.83	2.31	0.79	0.41	1.32	0.21	0.05	0.00	1.81	11.64
1895	1.71	0.35	5.45	8.05	1.82	2.44	0.67	0.47	0.00	0.00	0.00	0.00	20.96
1896	1.80	1.56	0.68	8.23	0.00	3.16	2.22	0.10	0.00	0.04	0.20	0.00	17.99
1897	1.44	3.02	3.04	5.22	4.40	3.17	0.18	0.04	0.00	0.00	0.00	0.07	20.58
1898	0.79	0.07	0.65	1.37	2.20	0.91	0.06	1.04	0.04	0.00	0.00	0.20	7.33
1899	0.39	0.08	0.64	5.56	0.28	7.62	1.54	0.10	0.92	0.00	0.00	0.00	17.13
1900	3.92	1.94	4.51	2.13	0.16	2.18	0.98	1.38	0.01	0.00	0.00	0.00	17.21
1901	1.93	8.01	0.26	11.21	5.89	0.58	2.83	0.69	0.00	0.00	0.18	0.10	31.68
1902	2.58	1.58	0.12	1.46	8.79	4.68	2.44	0.03	0.00	0.00	0.00	0.00	21.68
1903	2.00	1.52	1.48	3.67	3.18	4.98	1.66	0.00	0.00	0.00	0.00	0.00	18.49
1904	0.02	0.48	0.32	1.08	6.79	5.13	2.97	0.20	0.00	0.00	0.06	3.54	20.59
1905	1.00	0.13	1.72	2.35	7.51	4.19	0.77	2.26	0.03	0.03	0.00	0.00	19.99
1906	0.00	1.97	0.32	6.37	3.48	10.86	0.71	4.22	0.16	0.00	0.03	0.04	28.16
1907	0.00	1.08	5.14	8.78	2.45	6.79	0.34	0.11	0.02	0.00	0.00	0.07	24.78
1908	3.23	0.01	3.33	6.69	3.59	0.79	0.14	0.21	0.00	0.00	0.00	0.84	18.83
1909	0.59	0.73	1.70	17.00	6.44	4.04	0.03	0.00	0.00	0.00	0.00	0.02	30.55
1910	0.54	2.24	10.09	3.48	0.43	3.81	0.23	0.00	0.00	0.00	0.00	0.41	21.23
1911	0.30	0.27	0.95	14.31	4.86	11.92	1.32	0.08	0.00	0.00	0.00	0.02	34.03
1912	0.12	0.46	3.72	2.80	0.02	5.65	2.27	2.09	0.00	0.00	0.00	0.04	17.17
1913	0.00	0.79	0.24	3.48	1.66	0.96	0.52	0.30	0.09	0.00	0.91	0.07	9.02
1914	0.00	3.97	5.73	15.03	3.31	1.24	0.68	0.06	0.22	0.00	0.00	0.00	30.24
1915	0.08	0.12	6.01	7.11	9.51	0.95	2.47	1.91	0.01	0.01	0.00	0.00	28.18
1916	0.00	0.34	3.58	18.25	2.38	2.12	0.21	0.04	0.00	0.00	0.00	1.94	28.86
1917	1.82	0.38	9.26	1.59	7.01	0.44	0.11	0.49	0.00	0.01	0.00	0.00	21.11
1918	0.09	0.47	0.14	0.55	9.63	7.12	0.04	0.01	0.00	0.00	0.01	0.73	18.79
1919	0.81	4.00	1.92	1.51	5.48	3.35	0.09	0.19	0.00	0.00	0.00	0.42	17.77
1920	0.12	0.14	4.52	0.82	2.36	4.78	1.65	0.00	0.05	0.00	0.03	0.00	14.47
1921	1.23	1.64	3.85	6.18	2.16	2.29	0.57	1.32	0.00	0.00	0.00	0.40	19.64

PRECIPITATION IN INCHES

STATION NAME: CA. ST. POLYTECHNIC U
 LOCATION: SAN LUIS OBISPO
 GAGE NO: 1.0
 ELEVATION: 300 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 30 SOUTH
 RANGE: 12 EAST
 SECTION: 23D

LONGITUDE: 120-39-47
 LATITUDE: 35-18-20
 RECORD BEGAN: 1870

WATER YEAR													WATER YEAR TOTAL
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1922	0.16	0.16	7.22	4.48	6.49	3.46	0.27	0.72	0.00	0.00	0.00	0.00	22.96
1923	0.47	5.30	6.64	4.51	1.36	0.38	4.57	0.01	0.04	0.00	0.00	0.70	23.98
1924	0.16	0.32	0.73	1.46	0.44	4.05	0.33	0.00	0.00	0.00	0.04	0.00	7.53
1925	0.94	0.89	2.04	2.78	4.32	4.21	2.68	3.58	0.15	0.00	0.03	0.06	21.68
1926	0.37	0.05	3.00	3.32	7.29	0.33	4.31	0.06	0.00	0.00	0.00	0.00	18.73
1927	0.66	8.24	1.41	2.78	7.78	2.10	1.54	0.05	0.12	0.00	0.00	0.00	24.68
1928	2.54	3.04	4.93	0.34	3.89	5.65	0.51	0.43	0.00	0.00	0.00	0.00	21.33
1929	0.00	3.51	5.42	1.96	2.90	1.78	1.39	0.00	0.34	0.00	0.00	0.05	17.35
1930	0.00	0.00	0.33	6.07	3.32	3.15	0.67	1.21	0.17	0.00	0.00	0.14	15.06
1931	0.04	1.98	0.63	6.22	1.92	0.54	0.48	2.52	0.16	0.00	0.06	0.00	14.55
1932	0.09	2.88	14.99	4.95	5.92	0.88	0.40	0.18	0.00	0.04	0.02	0.05	30.40
1933	0.33	0.31	1.81	8.87	0.33	1.03	0.17	0.93	1.88	0.00	0.00	0.00	15.66
1934	0.95	0.00	7.11	0.05	4.80	0.07	0.00	0.38	1.61	0.00	0.00	0.07	15.04
1935	2.28	3.91	2.84	6.01	0.93	4.59	5.35	0.01	0.00	0.00	0.71	0.00	26.63
1936	0.74	1.94	2.72	2.53	12.00	1.49	1.55	0.14	0.20	0.14	0.00	0.11	23.56
1937	1.69	0.00	8.29	7.98	9.25	5.56	0.22	0.00	0.05	0.00	0.00	0.00	33.04
1938	0.09	0.73	7.51	2.70	11.96	6.79	1.12	0.09	0.00	0.00	0.00	0.54	31.53
1939	0.53	0.48	1.08	3.39	1.97	1.92	0.26	0.13	0.00	0.02	0.00	0.59	10.37
1940	1.34	1.07	1.92	9.29	6.41	1.89	2.37	0.01	0.00	0.00	0.00	0.00	24.30
1941	0.78	0.25	9.68	7.80	9.85	8.60	5.23	0.73	0.00	0.02	0.02	0.00	42.96
1942	1.14	0.95	10.18	2.80	1.93	2.33	3.94	0.30	0.00	0.00	0.01	0.00	23.58
1943	0.54	1.34	3.35	10.83	2.01	6.94	1.04	0.00	0.00	0.00	0.00	0.00	26.05
1944	1.15	0.42	4.57	1.77	9.45	2.61	2.22	0.24	0.01	0.00	0.00	0.00	22.44
1945	0.14	6.10	2.18	0.16	6.48	5.91	0.12	0.10	0.09	0.00	0.03	0.11	21.42
1946	1.14	0.83	7.36	0.63	2.26	4.20	1.24	0.19	0.00	0.04	0.02	0.00	17.91
1947	0.55	6.64	2.68	0.44	1.15	2.04	0.20	0.27	0.24	0.00	0.04	0.00	14.25
1948	1.40	0.12	1.47	0.06	2.17	5.25	4.14	0.89	0.00	0.00	0.00	0.00	15.50
1949	0.39	0.02	3.50	1.94	2.41	5.68	0.11	0.00	0.00	0.00	0.00	0.00	14.05
1950	0.00	2.23	3.85	4.89	3.88	1.41	2.53	0.17	0.00	0.46	0.00	0.03	19.45
1951	2.12	2.38	3.25	3.42	1.31	1.03	1.48	0.13	0.00	0.00	0.04	0.05	15.21
1952	0.93	1.96	8.39	9.53	0.63	6.65	1.05	0.04	0.03	0.05	0.00	0.00	29.26
1953	0.00	3.55	7.28	2.37	0.00	1.40	1.99	0.15	0.04	0.00	0.00	0.00	16.78
1954	0.00	3.45	0.42	6.10	3.50	4.90	1.28	0.09	0.03	0.00	0.00	0.00	19.77
1955	0.00	2.77	3.10	5.60	1.96	0.18	2.67	0.99	0.01	0.00	0.01	0.00	17.29
1956	0.00	1.93	10.88	6.51	1.46	0.01	3.51	0.85	0.00	0.00	0.00	0.00	25.15
1957	0.65	0.00	0.49	4.64	3.92	1.17	3.30	1.57	0.24	0.00	0.00	0.00	15.98
1958	1.68	0.55	4.23	3.78	8.97	8.40	6.51	0.23	0.00	0.00	0.00	0.95	35.30
1959	0.00	0.32	0.18	2.69	6.60	0.00	0.95	0.07	0.00	0.00	0.00	0.73	11.54
1960	0.00	0.00	0.60	4.23	6.85	1.52	1.94	0.04	0.00	0.00	0.00	0.00	15.18
1961	0.22	3.76	1.67	1.97	0.91	1.74	0.49	0.33	0.04	0.01	0.00	0.01	11.15
1962	0.00	4.60	2.14	2.88	13.96	2.16	0.13	0.04	0.06	0.00	0.00	0.00	25.97
1963	1.52	0.04	2.73	3.56	8.08	4.61	3.84	0.33	0.09	0.00	0.00	0.19	24.99
1964	1.94	4.08	0.15	3.01	0.12	2.10	1.69	1.03	0.37	0.02	0.00	0.10	14.61
1965	1.43	3.79	5.78	4.10	0.42	2.29	3.91	0.00	0.00	0.00	0.00	0.00	21.72
1966	0.00	7.80	4.12	2.13	1.15	0.29	0.12	0.00	0.01	0.15	0.00	1.11	16.88
1967	0.00	4.40	7.70	6.04	0.58	6.38	6.90	0.36	0.13	0.00	0.00	1.20	33.69
1968	0.00	3.83	3.05	2.43	2.07	3.70	1.31	0.35	0.00	0.00	0.00	0.01	16.75
1969	3.08	2.10	3.92	24.63	15.16	1.88	3.72	0.00	0.03	0.00	0.00	0.10	54.62
1970	0.62	0.89	1.73	7.28	1.42	4.11	0.18	0.00	0.07	0.00	0.00	0.00	16.30
1971	0.11	6.02	8.51	1.89	0.42	0.73	1.56	1.22	0.00	0.00	0.00	0.19	20.65
1972	0.36	2.00	7.03	1.03	0.86	0.00	0.89	0.06	0.00	0.04	0.00	0.00	12.27
1973	2.72	6.79	2.00	13.83	9.67	4.94	0.00	0.02	0.00	0.00	0.00	0.07	40.04

PRECIPITATION IN INCHES

STATION NAME: CA. ST. POLYTECHNIC U.
 LOCATION: SAN LUIS OBISPO
 GAGE NO: 1.0
 ELEVATION: 300 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 30 SOUTH
 RANGE: 12 EAST
 SECTION: 23D

LONGITUDE: 120-39-47
 LATITUDE: 35-18-20
 RECORD BEGAN: 1870

WATER YEAR												WATER YEAR	
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1974	2.18	4.18	4.90	8.17	0.43	8.97	2.81	0.00	0.02	0.02	0.00	0.00	31.68
1975	1.96	0.74	4.93	0.26	8.35	5.90	2.00	0.00	0.00	0.00	0.00	0.02	24.16
1976	2.23	0.36	0.18	0.01	4.17	2.54	0.88	0.00	0.03	0.00	1.41	3.87	15.68
1977	0.50	1.03	2.49	2.01	0.08	2.13	0.06	3.29	0.00	0.00	0.00	0.03	11.62
1978	0.05	0.28	8.49	15.76	10.71	8.09	4.37	0.00	0.07	0.00	0.00	1.18	49.00
1979	0.00	2.46	2.24	4.62	5.99	4.03	0.24	0.00	0.00	0.00	0.00	0.20	19.78
1980	1.28	1.21	4.84	9.22	11.91	3.47	0.70	0.43	0.00	0.29	0.00	0.00	33.35
1981	0.00	0.01	2.10	6.40	2.15	7.48	0.34	0.00	0.00	0.00	0.00	0.00	18.48
1982	1.59	2.97	2.04	5.87	1.65	8.89	4.12	0.01	0.17	0.00	0.11	1.19	28.61
1983	1.74	6.28	4.97	10.05	10.53	8.61	3.30	0.61	0.00	0.00	0.91	0.15	47.15
1984	2.47	6.54	6.72	0.18	0.97	1.02	0.82	0.00	0.00	0.00	0.08	0.00	18.80
1985	1.27	3.61	3.76	0.72	1.94	3.04	0.30	0.02	0.00	0.04	0.02	0.04	14.76
1986	1.05	4.39	2.03	2.65	11.79	7.26	0.16	0.00	0.00	0.01	0.00	1.14	30.48
1987	0.00	0.28	1.51	2.48	2.90	6.62	0.19	0.06	0.00	0.00	0.00	0.00	14.04
1988	2.76	1.49	4.95	2.87	2.67	1.29	3.44	0.20	0.18	0.02	0.00	0.00	19.87
1989	0.00	1.85	8.08	0.98	1.66	1.99	0.76	0.12	0.00	0.00	0.00	1.70	17.14
1990	1.62	0.55	0.00	4.15	2.98	0.70	0.48	1.42	0.00	0.00	0.00	0.56	12.46
1991	0.00	0.36	0.43	0.81	2.34	12.82	0.43	0.00	0.80	0.00	0.70	0.00	18.69
1992	0.44	0.58	4.49	3.43	8.84	3.15	0.10	0.00	0.04	0.44	0.00	0.00	21.51
1993	1.29	0.00	5.45	10.51	8.61	4.03	0.25	0.23	0.09	0.00	0.00	0.00	30.46
1994	0.22	1.89	2.20	2.93	5.97	1.43	1.46	0.86	0.00	0.00	0.00	2.38	19.34
1995	0.89	2.51	1.15	18.03	2.25	16.48	0.00	0.00	0.00	0.00	0.00	0.00	41.31
SUM	110.96	247.78	490.08	615.91	538.62	460.84	197.12	56.37	11.94	1.97	5.68	33.91	2771.18
N	126	126	126	126	126	126	126	126	126	126	126	126	126
MEAN	0.88	1.97	3.89	4.89	4.27	3.66	1.56	0.45	0.09	0.02	0.05	0.27	21.99
MEAN for 1984-95 WATER YEARS													
	1.00	2.00	3.40	4.15	4.41	4.99	0.70	0.24	0.09	0.04	0.07	0.49	21.57
MAX	9.19	12.90	14.99	24.63	15.16	16.48	8.78	4.22	2.26	0.46	1.41	3.87	54.62
MIN	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.33
STD	1.19	2.22	3.19	4.36	3.58	3.08	1.61	0.80	0.31	0.06	0.19	0.63	8.70

PRECIPITATION IN INCHES

STATION NAME: SUEY RANCH
 LOCATION: SANTA MARIA VALLEY
 GAGE NO: 023.0
 ELEVATION: 500 FEET

BASE & MERIDIAN: SAN BERNARDINO
 TOWNSHIP: 33 EAST
 RANGE: 11 SOUTH
 SECTION: 32D

LONGITUDE: 120-23
 LATITUDE: 35-00
 RECORD BEGAN: 1910

WATER YEAR													WATER YEAR
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1910	0.00	2.62	5.11	4.90	0.75	3.83	0.53	0.00	0.00	0.00	0.00	0.80	18.54
1911	0.63	0.45	0.18	8.55	4.00	7.25	1.10	0.00	0.00	0.00	0.00	0.00	22.16
1912	0.00	0.24	2.10	1.90	0.00	4.68	1.12	1.83	0.00	0.00	0.00	0.00	11.87
1913	0.00	0.87	0.00	2.50	1.54	0.90	0.25	0.13	0.10	0.15	1.90	0.00	8.34
1914	0.00	3.63	3.05	11.75	2.15	1.15	0.10	0.05	0.25	0.00	0.00	0.00	22.13
1915	0.00	0.00	5.68	5.72	6.80	0.39	2.40	1.35	0.00	0.00	0.00	0.00	22.34
1916	0.00	0.22	3.56	10.65	1.00	1.72	0.00	0.00	0.00	0.00	0.00	2.05	19.20
1917	1.81	0.44	5.76	1.75	2.27	0.00	0.63	0.18	0.00	0.00	0.00	0.00	12.84
1918	0.00	0.18	0.25	0.85	11.98	4.34	0.00	0.00	0.00	0.00	0.00	0.25	17.85
1919	0.40	2.52	0.53	0.45	2.77	1.76	0.06	0.81	0.00	0.00	0.00	0.60	9.70
1920	0.01	0.37	2.44	0.40	1.84	3.59	1.16	0.00	0.00	0.00	0.00	0.00	9.81
1921	0.70	1.15	1.93	3.19	2.09	1.46	0.27	1.37	0.00	0.00	0.00	0.17	12.33
1922	0.26	0.00	4.90	3.95	2.76	2.57	0.21	0.44	0.00	0.00	0.00	0.00	15.09
1923	0.00	2.08	3.87	2.55	1.23	0.22	4.42	0.00	0.00	0.00	0.00	0.51	14.88
1924	0.00	0.30	0.59	0.51	0.40	3.51	0.78	0.00	0.00	0.00	0.00	0.00	6.09
1925	1.08	1.17	1.68	1.89	2.24	2.77	2.86	1.58	0.22	0.00	0.00	0.00	15.49
1926	0.30	1.30	1.05	1.79	4.26	0.27	2.70	0.00	0.00	0.00	0.00	0.00	11.67
1927	0.53	2.43	0.55	1.79	5.21	2.17	1.13	0.00	0.00	0.00	0.00	0.00	13.81
1928	2.86	1.00	3.69	0.15	2.22	4.30	1.75	0.00	0.00	0.00	0.00	0.00	15.97
1929	0.14	3.10	1.22	1.90	1.40	1.54	0.75	0.00	0.22	0.00	0.00	0.00	10.27
1930	0.00	0.00	0.22	3.58	1.43	3.01	0.55	1.38	0.30	0.00	0.00	0.00	10.47
1931	0.00	1.71	0.00	3.96	1.59	0.27	0.27	1.28	0.00	0.00	0.00	0.00	9.08
1932	0.00	2.98	6.70	3.07	3.55	0.67	0.67	0.27	0.00	0.00	0.00	0.00	17.91
1933	0.00	0.00	1.20	6.07	0.20	0.30	0.19	0.09	2.53	0.00	0.00	0.00	10.58
1934	0.00	0.00	3.28	1.09	2.10	0.83	0.00	0.00	1.44	0.00	0.00	0.00	8.74
1935	2.17	4.89	2.01	3.94	1.39	3.44	2.63	0.00	0.00	0.00	0.00	0.00	20.47
1936	0.60	2.28	1.24	1.13	5.14	1.32	1.23	0.20	0.00	0.00	0.00	0.00	13.14
1937	1.33	0.00	6.30	3.51	4.62	4.32	0.47	0.00	0.00	0.00	0.00	0.00	20.55
1938	0.17	0.26	3.11	4.40	7.74	5.36	2.10	0.00	0.00	0.00	0.00	0.46	23.60
1939	0.19	0.20	1.62	3.38	2.39	2.25	0.32	0.02	0.00	0.00	0.00	0.88	11.25
1940	0.62	1.06	1.58	6.18	3.16	1.64	1.74	0.00	0.00	0.00	0.00	0.00	15.98
1941	0.72	0.04	5.34	4.37	8.46	7.36	3.65	0.08	0.00	0.14	0.11	0.00	30.27
1942	0.86	0.28	7.39	1.69	1.34	1.46	4.08	0.42	0.00	0.00	0.00	0.00	17.52
1943	0.64	1.05	3.55	7.02	1.26	3.93	1.62	0.00	0.00	0.00	0.00	0.00	19.07
1944	1.14	0.31	3.55	1.77	5.35	0.84	1.49	0.15	0.00	0.00	0.00	0.00	14.60
1945	0.40	1.99	1.74	0.56	3.47	3.66	0.09	0.00	0.00	0.00	0.00	0.02	11.93
1946	0.71	0.95	3.54	0.55	1.75	4.73	0.10	0.13	0.00	0.00	0.00	0.00	12.46
1947	0.46	4.09	1.24	0.23	0.55	1.26	0.23	0.36	0.00	0.00	0.00	0.03	8.45
1948	0.64	0.10	0.87	0.00	1.36	3.12	2.94	0.96	0.00	0.00	0.00	0.00	9.99
1949	0.09	0.00	2.82	1.37	1.77	4.07	0.06	1.07	0.00	0.00	0.00	0.00	11.25
1950	0.00	0.74	2.73	2.75	2.14	1.39	1.01	0.22	0.00	0.73	0.00	0.63	12.34
1951	1.10	3.59	1.25	2.20	1.47	0.91	1.68	0.00	0.00	0.00	0.00	0.06	12.26
1952	0.55	1.40	5.13	5.61	0.75	5.65	0.41	0.00	0.12	0.00	0.00	0.00	19.62
1953	0.13	5.38	5.17	1.70	0.00	0.82	1.83	0.01	0.00	0.00	0.00	0.00	15.04
1954	0.00	2.22	0.39	4.21	1.94	3.87	0.61	0.15	0.00	0.00	0.00	0.00	13.39
1955	0.00	1.58	2.72	5.85	2.17	0.43	-1.55	1.42	0.00	0.00	0.00	0.00	15.72
1956	0.00	1.86	5.43	4.01	0.71	0.00	2.56	0.81	0.00	0.00	0.00	0.00	15.38
1957	0.66	0.00	1.00	2.32	2.61	0.87	1.45	2.06	0.24	0.00	0.00	0.04	11.25
1958	1.83	0.52	2.30	3.52	5.70	5.48	4.47	0.47	0.00	0.00	0.00	1.43	25.72
1959	0.00	0.32	0.21	1.39	4.94	0.00	0.41	0.00	0.00	0.00	0.00	0.26	7.53
1960	0.00	0.00	0.39	4.10	5.75	1.28	1.87	0.02	0.00	0.00	0.00	0.00	13.41
1961	1.94	3.28	1.23	1.10	0.13	1.16	0.29	0.14	0.09	0.00	0.00	0.00	9.36

PRECIPITATION IN INCHES

STATION NAME: SUEY RANCH
 LOCATION: SANTA MARIA VALLEY
 GAGE NO: 023.0
 ELEVATION: 500 FEET

BASE & MERIDIAN: SAN BERNARDINO
 TOWNSHIP: 33 EAST
 RANGE: 11 SOUTH
 SECTION: 32D

LONGITUDE: 120-23
 LATITUDE: 35-00
 RECORD BEGAN: 1910

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1962	0.00	1.94	2.08	2.92	11.34	1.06	0.00	0.11	0.00	0.00	0.00	0.00	19.45
1963	0.54	0.00	0.42	1.01	4.05	3.53	3.10	0.88	0.00	0.00	0.00	0.40	13.93
1964	1.83	2.87	0.21	1.10	0.14	2.20	1.01	0.38	0.33	0.00	0.10	0.00	10.17
1965	1.54	2.48	2.15	1.05	0.64	1.36	3.62	0.00	0.00	0.00	0.00	0.00	12.84
1966	0.01	4.64	3.22	1.20	0.92	0.27	0.12	0.00	0.00	0.09	0.00	0.35	10.82
1967	0.00	2.56	4.08	3.63	0.43	2.90	4.81	0.34	0.37	0.00	0.00	0.17	19.29
1968	0.00	2.98	1.69	1.00	1.65	2.82	0.70	0.03	0.00	0.00	0.00	0.00	10.87
1969	2.50	1.05	2.37	8.69	7.47	1.07	1.76	0.09	0.00	0.00	0.00	0.13	25.13
1970	0.33	1.14	0.79	3.26	2.09	1.96	0.02	0.00	0.05	0.00	0.00	0.00	9.64
1971	0.10	4.15	3.49	1.08	0.18	0.52	1.17	1.34	0.00	0.00	0.00	0.05	12.08
1972	0.56	1.09	3.34	0.29	0.52	0.00	0.53	0.08	0.03	0.06	0.00	0.00	6.50
1973	0.42	4.18	1.73	4.81	7.08	4.06	0.00	0.09	0.00	0.00	0.00	0.00	22.37
1974	0.88	3.63	2.77	5.68	0.17	5.14	1.67	0.00	0.00	0.00	0.00	0.00	19.94
1975	1.66	0.52	4.57	0.15	4.28	2.98	1.11	0.00	0.00	0.00	0.00	0.00	15.27
1976	1.29	0.36	0.15	0.00	4.97	1.71	1.19	0.00	0.00	0.09	1.08	4.65	15.49
1977	0.65	0.49	1.60	0.00	0.00	0.25	0.00	2.29	0.00	0.00	0.00	0.00	5.28
1978	0.20	0.00	5.22	5.94	7.94	6.35	1.52	0.00	0.00	0.00	0.00	2.05	29.22
1979	0.00	1.51	0.49	3.57	3.98	1.36	0.00	0.00	0.00	0.00	0.00	0.20	11.11
1980	1.03	0.59	1.17	6.24	6.07	2.69	0.90	0.16	0.00	0.09	0.00	0.00	18.94
1981	0.00	0.00	1.24	4.38	2.47	5.48	0.96	0.00	0.00	0.00	0.00	0.00	14.53
1982	1.12	2.09	1.69	3.70	1.44	5.52	3.88	0.00	0.25	0.00	0.03	0.65	20.37
1983	1.89	4.25	0.84	7.20	5.58	7.18	2.92	0.01	0.00	0.00	0.50	0.06	30.43
1984	1.20	3.66	3.09	0.00	0.40	0.72	0.62	0.00	0.00	0.00	0.00	0.00	9.69
1985	1.19	2.15	3.35	0.79	1.85	2.19	0.00	0.00	0.00	0.00	0.00	0.00	11.52
1986	0.52	3.37	0.71	1.24	3.57	5.84	0.62	0.02	0.00	0.00	0.00	1.51	17.40
1987	0.00	0.32	2.12	6.00	1.84	4.44	0.00	0.00	0.00	0.00	0.00	0.00	14.72
1988	1.02	1.21	2.81	2.14	1.78	0.58	3.55	0.06	0.00	0.00	0.00	0.00	13.15
1989	0.00	1.40	5.80	0.48	1.19	0.90	0.44	0.00	0.00	0.00	0.00	0.39	10.60
1990	0.40	0.63	0.03	3.30	1.83	0.33	0.59	0.00	0.00	0.00	0.00	0.87	7.98
1991	0.00	0.21	0.42	0.99	1.09	9.88	0.00	0.00	0.00	0.00	0.00	0.00	12.59
1992	0.55	0.31	3.13	2.24	8.93	1.88	0.00	0.00	0.00	0.76	0.00	0.00	17.80
1993	1.35	0.00	3.11	6.56	5.40	3.53	0.15	0.20	0.42	0.00	0.00	0.00	20.72
1994	0.22	1.14	1.53	2.17	3.70	1.86	1.19	0.98	0.00	0.00	0.00	0.06	12.85
1995	0.85	1.85	1.67	11.62	2.10	9.37	0.53	0.87	0.81	0.00	0.00	0.00	29.67
SUM	49.52	125.92	206.47	268.20	250.93	226.05	103.47	27.18	7.77	2.11	3.72	19.73	1291.07
N	86	86	86	86	86	86	86	86	86	86	86	86	86
MEAN	0.58	1.46	2.40	3.12	2.92	2.63	1.20	0.32	0.09	0.02	0.04	0.23	15.01
MEAN for 1984-95 WATER YEARS													
	0.61	1.35	2.31	3.13	2.81	3.46	0.64	0.18	0.10	0.06	0.00	0.24	14.89
MAX	2.86	5.38	7.39	11.75	11.98	9.88	4.81	2.29	2.53	0.76	1.90	4.65	30.43
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.28
STD	0.66	1.41	1.80	2.63	2.57	2.19	1.23	0.54	0.33	0.11	0.24	0.63	5.59

PRECIPITATION IN INCHES

STATION NAME: NIPOMO 2NW
 LOCATION: NIPOMO 2NW
 GAGE NO: 38.0
 ELEVATION: 360 FEET

BASE & MERIDIAN: SAN BERNARDINO
 TOWNSHIP: 11 NORTH
 RANGE: 34 WEST
 SECTION: 06

LONGITUDE: 120-30-00
 LATITUDE: 35-04-00
 RECORD BEGAN: 1921

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1921	0.70	1.02	1.90	3.36	1.69	1.46	0.20	1.94	0.00	0.00	0.00	0.51	12.78
1922	0.12	0.05	4.73	3.69	3.47	3.21	0.25	0.42	0.00	0.00	0.00	0.00	15.94
1923	0.54	2.27	4.23	2.30	0.95	0.18	4.97	0.00	0.09	0.00	0.00	0.42	15.95
1924	0.11	0.28	0.31	0.85	0.50	3.45	0.61	0.00	0.00	0.14	0.00	0.00	6.25
1925	1.25	0.82	1.87	2.63	2.44	2.13	2.00	2.32	0.17	0.00	0.00	0.00	15.63
1926	0.30	0.20	2.69	1.76	3.84	0.32	2.41	0.08	0.00	0.00	0.00	0.00	11.60
1927	0.64	4.02	0.92	1.85	5.41	1.39	1.50	0.12	0.26	0.00	0.00	0.00	16.11
1928	2.62	1.55	4.01	0.18	3.84	4.12	0.15	0.75	0.00	0.00	0.00	0.00	17.22
1929	0.00	2.20	3.74	1.63	1.77	1.50	0.81	0.00	0.21	0.00	0.00	0.00	11.86
1930	0.00	0.00	0.17	3.95	1.78	2.63	0.52	0.44	0.00	0.00	0.00	0.30	9.79
1931	0.00	1.42	0.00	4.28	1.22	0.47	0.62	1.40	0.07	0.00	0.25	0.00	9.73
1932	0.36	2.95	7.63	2.91	3.43	0.26	0.40	0.18	0.00	0.00	0.00	0.00	18.12
1933	0.00	0.05	1.08	6.38	0.28	1.31	0.08	0.36	1.65	0.00	0.00	0.00	11.19
1934	0.00	0.30	2.69	1.06	3.11	0.00	0.00	0.00	0.90	0.00	0.00	0.00	8.06
1935	1.61	4.46	2.26	5.69	1.34	3.92	3.51	0.00	0.00	0.00	0.65	0.00	23.44
1936	0.70	1.84	1.79	2.21	7.43	1.45	0.00	0.00	0.00	0.00	0.00	0.00	15.42
1937	1.89	0.00	5.05	3.71	6.08	4.15	0.14	0.00	0.00	0.00	0.00	0.00	21.02
1938	0.00	0.41	4.75	2.45	7.67	5.32	1.60	0.03	0.00	0.00	0.00	0.55	22.78
1939	0.15	0.38	1.53	3.16	2.52	2.64	0.41	0.00	0.00	0.00	0.00	0.40	11.19
1940	1.19	0.96	1.75	6.53	4.35	1.12	1.59	0.00	0.00	0.00	0.00	0.00	17.49
1941	0.63	0.23	6.45	5.41	7.25	7.45	3.67	0.00	0.00	0.00	0.00	0.00	31.09
1942	0.95	0.30	8.57	1.97	1.16	1.63	3.91	0.37	0.00	0.00	0.00	0.00	18.86
1943	0.62	1.24	2.86	6.91	1.40	4.37	0.88	0.00	0.00	0.00	0.00	0.00	18.28
1944	0.99	0.30	3.90	1.28	4.82	0.61	1.52	0.15	0.00	0.00	0.00	0.00	13.57
1945	0.00	3.09	1.76	0.24	5.31	3.96	0.10	0.12	0.00	0.00	0.58	0.00	15.16
1946	0.59	0.74	3.23	0.49	1.66	3.69	0.20	0.17	0.00	0.00	0.00	0.00	10.77
1947	0.40	4.81	2.42	0.22	1.01	1.63	0.39	0.30	0.05	0.00	0.00	0.00	11.23
1948	0.93	0.16	1.05	0.05	1.71	4.30	2.45	0.90	0.00	0.00	0.00	0.00	11.55
1949	0.10	0.00	2.89	1.45	2.64	3.88	0.09	1.04	0.00	0.00	0.00	0.00	12.09
1950	0.10	1.37	4.21	3.15	2.81	1.82	0.70	0.00	0.00	0.55	0.00	0.00	14.71
1951	1.42	2.55	1.47	2.26	1.11	0.87	1.22	0.03	0.00	0.00	0.00	0.11	11.04
1952	0.55	2.03	6.19	7.15	0.82	5.36	1.11	0.00	0.27	0.00	0.00	0.00	23.48
1953	0.00	3.76	5.23	1.97	0.00	0.81	1.88	0.00	0.00	0.00	0.00	0.00	13.65
1954	0.00	2.45	0.30	4.66	2.12	4.20	1.05	0.22	0.00	0.00	0.00	0.00	15.00
1955	0.00	1.48	1.91	4.78	2.14	0.25	2.02	1.42	0.00	0.00	0.00	0.00	14.00
1956	0.00	2.08	6.94	5.86	0.75	0.00	1.88	0.86	0.00	0.00	0.00	0.00	18.37
1957	0.57	0.00	0.95	2.90	2.41	1.12	1.69	1.48	0.15	0.00	0.00	0.00	11.27
1958	2.00	0.59	2.38	4.12	6.09	6.11	5.32	0.16	0.00	0.00	0.00	1.60	28.37
1959	0.00	0.17	0.17	2.21	4.63	0.00	1.35	0.05	0.00	0.00	0.00	0.70	9.28
1960	0.01	0.00	0.57	4.29	6.39	1.24	2.94	0.02	0.00	0.00	0.00	0.00	15.46
1961	0.78	4.66	1.27	0.90	0.48	1.42	0.28	0.11	0.00	0.03	0.00	0.00	9.93
1962	0.00	2.56	1.77	3.96	12.25	1.71	0.10	0.21	0.01	0.00	0.00	0.00	22.57
1963	0.80	0.00	0.69	1.10	4.88	3.66	3.31	0.58	0.00	0.00	0.00	0.43	15.45
1964	1.68	3.37	0.25	1.35	0.05	2.45	1.50	0.48	0.25	0.02	0.00	0.18	11.58
1965	1.99	2.54	3.30	2.82	0.58	1.72	3.99	0.00	0.00	0.00	0.00	0.00	16.94
1966	0.03	7.49	3.77	1.47	1.06	0.23	0.11	0.00	0.02	0.10	0.20	0.50	14.98
1967	0.00	3.12	4.34	3.92	0.61	3.65	5.92	0.28	0.35	0.00	0.00	0.59	22.78
1968	0.00	2.86	1.84	1.12	1.32	2.71	0.84	0.09	0.00	0.00	0.00	0.00	10.78
1969	2.72	1.38	2.53	11.21	7.68	1.59	2.05	0.01	0.04	0.16	0.00	0.08	29.45
1970	0.49	0.92	1.13	3.94	1.54	3.50	0.06	0.00	0.05	0.00	0.00	0.00	11.63
1971	0.17	4.41	5.06	1.78	0.17	0.64	1.17	1.09	0.00	0.00	0.00	0.07	14.56
1972	0.20	1.55	3.86	0.31	0.47	0.00	0.60	0.00	0.00	0.00	0.00	0.03	7.02

PRECIPITATION IN INCHES

STATION NAME: NIPOMO 2NW
 LOCATION: NIPOMO 2NW
 GAGE NO: 38.0
 ELEVATION: 360 FEET

BASE & MERIDIAN: SAN BERNARDINO
 TOWNSHIP: 11 NORTH
 RANGE: 34 WEST
 SECTION: 06

LONGITUDE: 120-30-00
 LATITUDE: 35-04-00
 RECORD BEGAN: 1921

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR
													TOTAL
1973	1.23	4.68	2.43	6.46	6.21	4.50	0.03	0.01	0.02	0.00	0.00	0.02	25.59
1974	0.82	3.76	3.49	6.31	0.16	6.35	1.79	0.00	0.00	0.06	0.00	0.00	22.74
1975	1.31	0.45	5.12	0.16	4.57	3.01	1.14	0.02	0.00	0.00	0.00	0.00	15.78
1976	1.39	0.21	0.19	0.00	3.69	2.49	0.69	0.00	0.07	0.00	1.09	3.30	13.12
1977	1.54	0.91	1.80	1.36	0.08	1.68	0.02	2.81	0.00	0.00	0.02	0.09	10.31
1978	0.02	0.28	6.19	6.88	7.90	6.17	3.85	0.00	0.02	0.00	0.00	1.40	32.71
1979	0.00	1.66	1.25	4.44	4.86	4.27	0.32	0.04	0.00	0.00	0.00	0.23	17.07
1980	1.13	0.69	2.18	5.18	5.51	2.40	0.89	0.57	0.00	0.00	0.00	0.00	18.55
1981	0.00	0.00	1.83	4.09	2.53	6.67	0.57	0.00	0.00	0.00	0.00	0.00	15.69
1982	1.25	2.71	1.92	3.56	1.37	5.14	4.08	0.00	0.04	0.00	0.12	0.66	20.85
1983	1.41	4.12	2.72	7.19	10.06	8.51	2.80	0.19	0.01	0.00	0.68	0.06	37.75
1984	2.02	3.80	3.89	0.09	0.55	0.86	0.57	0.00	0.00	0.00	0.00	0.02	11.80
1985	1.40	3.19	2.87	1.03	2.04	1.96	0.35	0.00	0.00	0.00	0.01	0.07	12.92
1986	0.96	3.90	1.05	1.31	5.29	5.73	0.61	0.00	0.00	0.04	0.00	2.00	20.89
1987	0.00	0.23	1.89	2.35	2.53	4.66	0.44	0.00	0.03	0.00	0.00	0.00	12.13
1988	1.62	1.22	3.59	2.17	2.06	0.58	3.29	0.16	0.04	0.00	0.00	0.00	14.73
1989	0.00	1.79	6.28	0.67	1.05	1.64	0.35	0.08	0.00	0.00	0.00	1.04	12.90
1990	0.79	0.42	0.06	2.11	1.86	0.48	0.40	0.87	0.00	0.00	0.00	0.74	7.73
1991	0.00	0.32	0.58	1.14	1.81	12.04	0.33	0.00	0.20	0.00	0.00	0.00	16.42
1992	0.51	0.45	3.88	2.12	8.02	2.17	0.03	0.00	0.00	0.84	0.00	0.00	18.02
1993	1.33	0.00	3.81	6.02	5.40	4.95	0.18	0.30	0.21	0.00	0.00	0.00	22.20
1994	0.31	1.56	1.67	2.67	3.48	1.76	1.10	0.82	0.00	0.00	0.00	0.50	13.87
1995	0.98	1.95	1.25	12.57	2.00	10.02	0.77	1.19	0.74	0.00	0.00	0.00	31.47
SUM	50.92	125.69	206.30	235.71	233.47	215.65	100.67	25.24	5.92	1.94	3.60	16.60	1221.71
N	75	75	75	75	75	75	75	75	75	75	75	75	75
MEAN	0.68	1.68	2.75	3.14	3.11	2.88	1.34	0.34	0.08	0.03	0.05	0.22	16.29
MEAN for 1984-95 WATER YEARS													
	0.83	1.57	2.57	2.85	3.01	3.90	0.70	0.29	0.10	0.07	0.00	0.36	16.26
MAX	2.72	7.49	8.57	12.57	12.25	12.04	5.92	2.81	1.65	0.84	1.09	3.30	37.75
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.25
STD	0.69	1.59	1.93	2.47	2.60	2.40	1.40	0.57	0.24	0.12	0.18	0.52	6.28

PRECIPITATION IN INCHES

STATION NAME: RUNELS RANCH
 LOCATION: ARROYO GRANDE
 GAGE NO: 42.1
 ELEVATION: 70.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 32 SOUTH
 RANGE: 13 EAST
 SECTION: 28B

LONGITUDE: 120-35-00
 LATITUDE: 35-07-00
 RECORD BEGAN: 1925

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1925	1.53	4.14	2.36	6.25	1.12	4.62	2.86	0.00	0.00				
1926										0.00	0.00	0.00	
1927	0.90	3.33	1.07	1.77	4.15	1.44	1.26	0.00	0.51				
1928										0.00	0.00	0.00	
1929	0.00	2.25	4.32	2.41	1.78	1.44	0.58	0.00	0.22	0.00	0.00	0.00	13.00
1930	0.00	0.00	0.11	4.47	1.70	3.30	0.54	0.40	0.00	0.00	0.00	0.23	10.75
1931	0.00	1.55	0.00	5.28	1.42	0.26	0.06	1.32	0.00	0.00	0.00	0.00	9.89
1932	0.00	3.03	7.68	3.38	4.87	0.31	0.42	0.15	0.00	0.00	0.00	0.00	19.84
1933	0.00	0.08	1.73	6.97	0.35	1.14	0.12	0.41	1.73	0.00	0.00	0.00	12.53
1934	0.32	0.00	3.04	3.26	0.12	0.00	0.00	0.00	0.92	0.00	0.78	0.24	8.68
1935	1.08	2.00	0.91	1.44	4.99	1.53	0.88	0.00	0.00	0.00	0.00	0.00	12.83
1936	1.37	0.00	5.75	4.33	6.74	4.04	0.24	0.00	0.00				
1937													
1938													
1939										0.00	0.00	0.64	
1940	0.21	0.21	1.51	2.93	2.26	2.31	0.06	0.00	0.00	0.00	0.00	0.75	10.24
1941	1.12	1.20	0.62	5.98	4.19	1.26	1.73	0.00	0.00	0.00	0.00	0.00	16.10
1942	0.73	0.23	6.47	6.19	7.08	10.15	4.06	0.00	0.00	0.00	0.00	0.00	34.91
1943	1.07	0.63	9.53	1.31	0.38	1.82	3.57	0.00	0.00	0.00	0.00	0.00	18.31
1944	0.96	1.48	3.05	5.70	1.77	4.92	1.12	0.00	0.00	0.00	0.00	0.00	19.00
1945	0.96	0.20	3.68	1.30	6.05	0.49	1.68	0.14	0.00	0.00	0.00	0.00	14.50
1946	1.04	0.40	2.93	0.47	1.48	3.41	0.03	0.20	0.00	0.15	0.00	0.34	10.45
1947	0.33	4.10	1.30	0.23	0.81	1.43	0.42	0.00	0.00	0.00	0.00	0.02	8.64
1948	1.29	0.15	1.05	0.00	1.76	3.46	2.27	0.92	0.00	0.00	0.00	0.00	10.90
1949	0.08	0.00	2.98	1.51	2.52	4.64	0.16	0.83	0.00	0.00	0.00	0.00	12.72
1950	0.00	0.98	2.95	3.07	2.63	1.20	0.86	0.12	0.00	0.00	0.00	0.00	11.81
1951	1.36	2.09	1.93	2.37	0.99	0.95	1.17	0.00	0.00	0.00	0.00	0.00	10.86
1952	0.64	1.69	4.90	5.89	0.72	5.65	0.96	0.00	0.42	0.00	0.00	0.00	20.87
1953	0.00	3.31	5.25	1.53	0.00	0.55	1.78	0.15	0.00	0.00	0.00	0.00	12.57
1954	0.00	2.77	0.26	4.76	6.76	3.76	0.95	0.00	0.00	0.00	0.00	0.00	19.26
1955	0.00	1.57	1.61	5.28	1.48	0.18	1.88	1.20	0.00	0.00	0.00	0.00	13.20
1956	0.00	2.42	7.32	5.03	0.75	0.00	2.20	0.82	0.00	0.00	0.00	0.00	18.54
1957	0.44	0.00	0.53	3.32	2.53	1.55	1.53	1.25	0.28	0.00	0.00	0.00	11.43
1958	1.63	0.30	2.72	3.27	5.90	6.14	4.77	0.00	0.00	0.00	0.00	0.70	25.43
1959	0.00	0.40	0.28	3.15	4.11	0.00	0.47	0.00	0.00	0.00	0.00	0.55	8.96
1960	0.00	0.00	0.00	4.37	5.80	1.30	2.88	0.00	0.00	0.00	0.00	0.00	14.35
1961	0.75	6.20	1.75	1.10	0.50	1.28	0.25	0.00	0.00	0.00	0.00	0.00	11.83
1962	0.00	2.45	1.98	4.00	11.53	1.45	0.00	0.00	0.00	0.00	0.00	0.00	21.41
1963	0.73	0.00	1.00	0.80	4.90	3.95	4.15	0.30	0.00	0.00	0.00	0.50	16.33
1964	2.05	3.05	0.30	1.68	0.00	2.40	0.70	0.40	0.20	0.00	0.00	0.25	11.03
1965	1.90	3.10	3.80	2.70	0.30	1.90	1.80	0.00	0.00	0.00	0.00	0.00	15.50
1966	0.00	7.15	3.65	0.70	1.15	0.25	0.00	0.00	0.00	0.00	0.00	0.90	13.80
1967	0.00	3.30	4.25	3.90	0.70	4.50	4.35	0.30	0.18	0.00	0.00	0.40	21.88
1968	0.00	4.05	2.05	0.83	0.40	2.68	0.80	0.00	0.00	0.00	0.00	0.00	10.81
1969	2.65	1.70	3.30	12.00	9.60	1.50	2.65	0.00	0.00	0.00	0.00	0.00	33.40
1970	0.75	1.40	1.60	4.70	2.70	2.65	0.00	0.00	0.00	0.00	0.00	0.00	13.80
1971	0.00	5.35	5.28	2.10	0.20	0.70	1.25	1.50	0.00	0.00	0.00	0.18	16.56
1972	0.00	1.20	5.00	0.50	0.70	0.45	0.00	0.00	0.00	0.00	0.00	0.00	7.85
1973	1.90	5.40	1.80	6.90	7.10	4.10	0.00	0.00	0.00	0.00	0.00	0.00	27.20
1974	0.75	3.65	3.40	7.70	0.00	7.00	1.45	0.00	0.00	0.00	0.00	0.00	23.95
1975	1.30	0.50	4.10	0.10	4.25	2.95	1.05	0.00	0.00	0.00	0.00	0.00	14.25
1976	1.60	0.35	0.20	0.00	4.60	2.05	0.50	0.00	0.00	0.10	1.20	3.60	14.20

PRECIPITATION IN INCHES

STATION NAME: RUNELS RANCH
 LOCATION: ARROYO GRANDE
 GAGE NO: 42.1
 ELEVATION: 70.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 32 SOUTH
 RANGE: 13 EAST
 SECTION: 28B

LONGITUDE: 120-35-00
 LATITUDE: 35-07-00
 RECORD BEGAN: 1925

WATER YEAR													WATER YEAR
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1977	0.20	0.85	1.50	1.90	0.00	2.15	0.00	3.00	0.00	0.00	0.00	0.00	9.60
1978	0.00	0.50	7.30	7.45	8.75	6.05	4.95	0.00	0.00	0.00	0.00	1.40	36.40
1979	0.00	2.65	1.65	4.90	6.25	3.95	0.55	0.00	0.00	0.00	0.00	0.20	20.15
1980	1.10	0.80	2.40	6.40	6.95	2.70	0.95	0.50	0.00	0.00	0.00	0.00	21.80
1981	0.00	0.00	2.35	4.00	2.80	8.30	0.60	0.00	0.00				
SUM	32.74	94.16	146.50	181.58	160.59	136.21	67.51	13.91	4.46	0.25	1.98	10.90	772.32
N	52	52	52	52	52	52	52	52	52	51	51	51	48
MEAN	0.63	1.81	2.82	3.49	3.09	2.62	1.30	0.27	0.09	0.00	0.04	0.21	16.09
MAX	2.65	7.15	9.53	12.00	11.53	10.15	4.95	3.00	1.73	0.15	1.20	3.60	36.40
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.85
STD	0.69	1.77	2.19	2.46	2.84	2.21	1.34	0.55	0.28	0.02	0.20	0.56	6.73

PRECIPITATION IN INCHES

STATION NAME: HUASNA VALLEY
 LOCATION: NIPOMO 8 NE
 GAGE NO: 51.0
 ELEVATION: 715 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 32 SOUTH
 RANGE: 15 EAST
 SECTION: 32

LONGITUDE: 35-06-00
 LATITUDE: 120-23-00
 RECORD BEGAN: 1930

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1930	0.00	0.00	0.16	4.86	2.12	4.51	0.63	0.56	0.20	0.00	0.00	0.47	13.51
1931	0.00	1.85	0.00	4.93	1.33	0.45	0.75	1.34	0.06	0.15	0.07	0.07	11.00
1932	0.00	3.70	9.85	3.02	5.51	0.25	0.64	0.51	0.00	0.00	0.00	0.04	23.52
1933	0.00	0.20	1.51	10.45	0.12	0.98	0.18	0.87	1.25	0.00	0.00	0.00	15.56
1934	0.70	0.00	5.85	0.06	3.43	0.36	0.00	0.25	1.17	0.00	0.00	0.00	11.82
1935	3.39	3.73	2.43	5.83	1.56	4.22	4.93	0.00	0.00	0.00	1.22	0.00	27.31
1936	1.01	1.35	2.00	2.00	12.94	2.29	1.28	0.10	0.00	0.00	0.00	0.15	23.12
1937	2.58	0.00	6.54	5.54	9.36	6.11	0.33	0.00	0.00	0.00	0.00	0.00	30.46
1938	0.18	0.80	6.12	4.89	10.25	6.41	3.00	0.10	0.00	0.00	0.00	0.63	32.38
1939	0.21	0.30	1.57	4.13	3.16	2.61	0.25	0.00	0.00	0.00	0.00	0.50	12.73
1940	0.99	1.09	2.29	8.27	5.10	2.08	0.86	0.00	0.00	0.00	0.00	0.00	20.68
1941	0.60	0.20	7.24	5.69	11.93	7.83	4.05	0.19	0.00	0.03	0.05	0.00	37.81
1942	1.00	0.37	9.73	1.66	1.72	2.15	4.27	0.54	0.00	0.00	0.00	0.00	21.44
1943	0.40	1.81	2.94	12.48	2.09	7.04	1.38	0.00	0.00	0.00	0.00	0.00	28.14
1944	1.20	0.46	5.04	2.02	6.71	1.67	3.00	0.25	0.00	0.00	0.00	0.00	20.35
1945	0.56	4.76	1.78	0.68	5.17	5.69	0.15	0.10	0.05	0.00	0.00	0.05	18.99
1946	1.44	0.73	4.14	0.57	2.56	6.16	0.13	0.15	0.00	0.00	0.00	0.00	15.88
1947	0.48	6.64	3.04	0.90	0.60	1.95	0.32	0.18	0.08	0.00	0.00	0.00	14.19
1948	0.78	0.10	1.15	0.07	2.54	4.81	3.33	0.13	0.00	0.00	0.00	0.00	12.91
1949	0.23	0.00	3.90	1.79	3.24	4.73	0.09	0.94	0.03	0.00	0.00	0.00	14.95
1950	0.00	2.67	2.92	4.57	3.60	2.43	1.16	0.00	0.00	0.65	0.00	0.02	18.02
1951	2.54	5.62	1.81	2.12	1.19	1.24	1.73	0.08	0.00	0.00	0.00	0.09	16.42
1952	0.86	2.36	7.51	7.55	1.37	6.79	1.28	0.04	0.04	0.00	0.00	0.00	27.80
1953	0.16	3.28	7.27	2.71	0.00	1.60	2.34	0.00	0.00	0.00	0.00	0.00	17.36
1954	0.00	2.35	0.42	4.11	2.82	5.44	1.01	0.23	0.00	0.00	0.00	0.00	16.38
1955	0.00	1.86	2.29	6.20	2.35	0.24	2.62	0.39	0.00	0.00	0.00	0.00	15.95
1956	0.00	1.64	6.96	5.03	0.66	0.00	2.79	0.90	0.00	0.00	0.00	0.00	17.98
1957	0.48	0.00	0.85	3.60	2.65	0.63	2.34	2.03	0.04	0.00	0.00	0.00	12.62
1958	2.08	0.59	4.25	5.12	7.30	8.28	5.93	0.28	0.00	0.00	0.00	0.89	34.72
1959	0.00	0.20	0.16	2.03	5.77	0.00	0.57	0.00	0.00	0.00	0.00	0.62	9.35
1960	0.00	0.00	0.50	3.92	6.81	1.66	3.20	0.00	0.00	0.00	0.00	0.00	16.09
1961	1.26	4.98	1.23	1.72	0.07	1.42	0.33	0.16	0.00	0.00	0.00	0.00	11.17
1962	0.00	3.30	2.08	4.47	12.23	1.97	0.04	0.09	0.00	0.00	0.00	0.00	24.18
1963	0.77	0.00	0.44	1.79	4.51	3.14	3.88	0.58	0.00	0.00	0.22	0.40	15.73
1964	1.30	3.47	0.15	2.20	0.03	3.26	0.40	0.24	0.28	0.04	0.18	0.00	11.55
1965	1.68	2.70	2.59	2.91	0.72	2.24	4.13	0.00	0.00	0.00	0.00	0.00	16.97
1966	0.00	6.87	3.61	1.36	0.91	0.11	0.07	0.00	0.00	0.04	0.00	0.74	13.71
1967	0.00	3.43	8.82	5.51	0.64	4.42	6.25	0.21	0.17	0.00	0.00	0.88	30.33
1968	0.00	3.68	1.68	1.40	1.06	3.15	0.98	0.05	0.00	0.00	0.00	0.00	12.00
1969	2.23	1.19	2.46	15.36	10.41	0.97	2.30	0.00	0.04	0.00	0.00	0.00	34.96
1970	0.43	0.68	0.73	4.36	2.88	2.51	0.05	0.00	0.03	0.00	0.00	0.00	11.67
1971	0.15	4.64	4.95	2.23	0.10	1.20	1.24	1.15	0.00	0.00	0.00	0.13	15.79
1972	0.05	1.13	4.12	0.26	0.57	0.00	0.65	0.35	0.05	0.00	0.00	0.05	7.23
1973	1.93	4.52	1.97	5.93	8.44	4.05	0.00	0.00	0.00	0.00	0.00	0.00	26.84
1974	0.66	4.06	2.67	5.65	0.23	5.89	1.23	0.00	0.00	0.00	0.00	0.00	20.39
1975	1.22	0.30	3.87	0.15	4.40	3.27	1.55	0.00	0.00	0.00	0.00	0.00	14.76
1976	1.76	0.34	0.17	0.00	4.96	1.52	1.27	0.03	0.00				
SUM	35.31	93.95	153.76	182.10	178.12	139.73	78.91	13.02	3.49	0.91	1.74	5.73	876.72
N	47	47	47	47	47	47	47	47	47	46	46	46	46
MEAN	0.75	2.00	3.27	3.87	3.79	2.97	1.68	0.28	0.07	0.02	0.04	0.12	19.06
MAX	3.39	6.87	9.85	15.36	12.94	8.28	6.25	2.03	1.25	0.65	1.22	0.89	37.81
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.23
STD	0.84	1.93	2.65	3.16	3.55	2.30	1.63	0.42	0.25	0.10	0.18	0.25	7.44

PRECIPITATION IN INCHES

STATION NAME: UNION OIL COMPANY
 LOCATION: SAN LUIS OBISPO
 GAGE NO: 54.0
 ELEVATION: 118.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 31 SOUTH
 RANGE: 12 EAST
 SECTION: 11D

LONGITUDE: 35-14-50
 LATITUDE: 120-39-49
 RECORD BEGAN: 1931

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1931	0.03	1.90	0.54	6.34	1.85	0.46	0.40	2.16	0.14	0.00	0.00	0.00	13.82
1932	0.09	2.78	13.50	3.00	5.60	0.55	0.39	0.21	0.00	0.00	0.00	0.01	26.13
1933	0.02	0.24	1.36	9.05	0.28	1.07	0.15	1.23	2.02	0.00	0.00	0.00	15.42
1934	0.55	0.00	3.61	1.60	4.01	0.09	0.00	0.56	1.85	0.00	0.00	0.07	12.34
1935	1.24	0.60	2.41	5.79	0.96	4.18	4.74	0.05	0.00	0.00	1.07	0.00	21.04
1936	0.48	1.72	2.92	2.49	10.64	1.53	1.76	0.00	0.20	0.23	0.00	0.18	22.15
1937	1.43	0.10	7.15	6.77	8.23	5.09	0.32	0.00	0.00	0.00	0.00	0.00	29.09
1938	0.07	0.92	3.49	2.55	9.57	5.33	1.30	0.05	0.00	0.00	0.00	0.62	23.90
1939	0.33	0.41	1.39	3.29	2.19	1.68	0.00	0.00	0.00	0.03	0.00	0.67	9.99
1940	1.07	0.99	2.25	8.37	6.30	2.12	1.41	0.00	0.00	0.00	0.00	0.00	22.51
1941	0.00	0.21	7.96	7.19	11.08	7.69	3.64	0.00	0.00	0.00	0.00	0.00	37.77
1942	1.25	1.10	10.41	2.19	1.28	2.35	3.76	0.00	0.00	0.00	0.00	0.00	22.34
1943	0.62	1.42	2.06	8.34	2.77	7.33	1.01	0.22	0.00	0.00	0.00	0.00	23.77
1944	0.90	0.34	1.84	1.75	8.19	1.28	2.06	0.14	0.00	0.00	0.00	0.00	16.50
1945	0.44	3.96	1.95	1.28	4.57	5.81	0.12	0.00	0.00	0.00	0.00	0.00	18.13
1946	0.99	0.46	8.25	0.00	2.23	4.91	0.00	0.23	0.00	0.00	0.00	0.00	17.07
1947	0.10	5.91	2.49	0.56	0.95	1.80	0.21	0.35	0.00	0.00	0.00	0.00	12.37
1948	0.51	0.00	1.21	0.03	1.80	5.15	3.36	0.95	0.00	0.00	0.00	0.00	13.01
1949	0.10	0.00	1.79	2.37	3.12	3.10	0.08	0.08	0.00	0.00	0.01	0.00	10.65
1950	0.00	1.78	4.29	4.66	4.14	1.94	1.35	0.11	0.00	0.00	0.00	0.00	18.27
1951	1.52	2.22	3.15	1.42	0.32	1.29	1.29	0.12	0.00	0.00	0.00	0.00	11.33
1952	1.13	2.17	8.80	8.46	0.62	3.41	0.50	0.02	0.04	0.00	0.00	0.00	25.15
1953	0.00	3.54	7.13	3.13	0.00	1.81	2.83	0.09	0.00	0.00	0.00	0.00	18.53
1954	0.00	4.15	0.27	4.77	3.92	5.33	1.81	0.00	0.00	0.00	0.00	0.00	20.25
1955	0.00	0.47	2.47	2.73	1.94	0.08	3.17	0.57	0.00	0.00	0.00	0.00	11.43
1956	0.00	1.80	3.88	4.18	1.38	0.00	3.29	0.00	0.00	0.00	0.00	0.00	14.53
1957	0.76	0.00	0.65	5.15	3.71	0.58	2.39	2.32	0.07	0.00	0.00	0.00	15.63
1958	1.54	0.45	3.80	4.47	8.42	8.38	6.04	0.30	0.00	0.00	0.00	0.96	34.36
1959	0.00	0.32	0.30	2.87	5.32	0.00	0.49	0.02	0.00	0.00	0.00	0.71	10.03
1960	0.00	0.00	0.62	4.16	7.40	1.35	2.88	0.01	0.00	0.00	0.00	0.00	16.42
1961	0.18	3.66	1.34	2.24	0.43	1.52	0.21	0.00	0.00	0.00	0.00	0.00	9.58
1962	0.00	4.30	1.69	5.34	11.89	1.91	0.00	0.00	0.00	0.00	0.00	0.00	25.13
1963	1.23	0.03	2.40	2.78	3.81	4.88	2.97	0.32	0.00	0.00	0.00	0.00	18.42
1964	1.81	4.28	0.18	1.75	0.09	3.43	0.00	0.98	0.28	0.00	0.11	0.00	12.91
1965	1.76	3.51	2.04	5.69	0.53	2.86	3.89	0.00	0.00	0.00	0.00	0.00	20.28
1966	0.00	7.09	3.58	2.12	0.98	0.40	0.05	0.00	0.00	0.02	0.00	0.99	15.23
1967	0.00	4.64	8.66	5.16	0.65	4.32	6.74	0.00	0.05	0.00	0.00	0.77	30.99
1968	0.02	3.13	2.89	2.31	1.43	2.95	1.15	0.11	0.00	0.00	0.00	0.00	13.99
1969	1.11	2.24	2.49	19.60	11.16	0.66	2.74	0.00	0.00	0.00	0.00	0.05	40.05
1970	0.51	0.93	1.16	6.83	2.33	2.08	0.28	0.00	0.00	0.00	0.00	0.00	14.12
1971	0.10	5.18	6.42	1.88	0.34	0.84	1.32	0.71	0.00	0.00	0.00	0.06	16.85
1972	0.00	1.46	5.87	0.96	0.71	0.00	1.14	0.05	0.00	0.00	0.00	0.00	10.19
1973	2.46	4.34	1.21	9.17	8.19	4.26	0.00	0.00	0.00	0.00	0.04	0.03	29.70
1974	1.28	4.75	1.95	7.44	0.22	7.37	1.84	0.00	0.00	0.02	0.00	0.00	24.87
1975	1.20	0.80	3.77	0.25	6.75	4.97	1.30	0.00	0.00	0.00	0.00	0.05	19.09
1976	1.18	0.28	0.07	0.00	5.26	1.22	1.23	0.00	0.00	0.00	1.06	2.68	12.98
1977	0.10	0.87	2.00	1.64	0.13	1.54	0.00	3.19	0.00	0.00	0.00	0.00	9.47
1978	0.23	0.00	8.73	9.21	13.20	6.62	4.56	0.00	0.00	0.00	0.00	1.02	43.57
1979	0.00	2.24	1.48	5.07	4.92	3.51	0.22	0.09	0.00	0.00	0.00	0.04	17.57
1980	0.84	0.63	3.56	8.05	9.57	2.48	0.92	0.29	0.00	0.00	0.00	0.00	26.34
1981													
1982	1.82	1.50	0.06	2.14	1.33	8.18	3.32	0.00	0.08	0.00	0.13	0.84	19.40

PRECIPITATION IN INCHES

STATION NAME: UNION OIL COMPANY
 LOCATION: SAN LUIS OBISPO
 GAGE NO: 54.0
 ELEVATION: 118.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 31 SOUTH
 RANGE: 12 EAST
 SECTION: 11D

LONGITUDE: 35-14-50
 LATITUDE: 120-39-49
 RECORD BEGAN: 1931

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1983	1.63	6.64	4.91	8.04	6.28	11.34	2.57	0.38	0.00	0.00	0.53	2.59	44.91
1984	0.55	2.82	2.02	0.09	0.47	0.66	0.67	0.00	0.00	0.00	0.00	0.00	7.28
1985	0.94	4.35	3.68	1.07	2.33	3.21	0.33	0.00	0.00	0.00	0.00	0.00	15.91
1986	1.14	2.51	3.45	2.93	3.78	5.18	0.00	0.00	0.00	0.00	0.00	0.00	18.99
1987													
1988	2.83	1.90	4.85	2.55	1.45	0.15	3.70	0.20	0.20				
1989													
1990													
1991										0.05	0.00	0.00	
1992	0.72	0.65	4.29	3.50	9.65	2.58	0.06	0.00	0.00	0.18	0.00	0.00	21.63
1993	1.71	0.00	4.52	8.83	8.04	3.80	0.00	0.23	0.00	0.00	0.00	0.00	27.13
1994	0.20	1.33	1.26	3.57	4.93	1.65	1.28	0.88	0.00	0.00	0.00	2.23	17.33
1995	1.12	2.01	1.12	5.21	2.40	16.91	0.87	0.75	0.40	0.00	0.00	0.00	30.79
SUM	41.84	118.03	203.59	254.38	246.04	197.17	94.11	17.97	5.33	0.53	2.95	14.57	1178.63
N	60	60	60	60	60	60	60	60	60	60	60	60	59
MEAN	0.70	1.97	3.39	4.24	4.10	3.29	1.57	0.30	0.09	0.01	0.05	0.24	19.98
MEAN for 1984-95 WATER YEARS	1.15	1.95	3.15	3.47	4.13	4.27	0.86	0.26	0.08	0.03	0.00	0.28	19.87
MAX	2.83	7.09	13.50	19.60	13.20	16.91	6.74	3.19	2.02	0.23	1.07	2.68	44.91
MIN	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.28
STD	0.69	1.83	2.81	3.34	3.60	3.06	1.62	0.60	0.35	0.04	0.20	0.59	8.47

PRECIPITATION IN INCHES

STATION NAME: UNION OIL COMPANY
 LOCATION: AVILA BEACH
 GAGE NO: 55.0
 ELEVATION: 115.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 31 SOUTH
 RANGE: 12 EAST
 SECTION: 36Q

LONGITUDE: 35-10-40
 LATITUDE: 120-43-32
 RECORD BEGAN: 1932

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1932	0.02	1.58	0.45	5.26	1.54	0.38	0.10	1.32	0.00	0.00	0.00	0.00	10.65
1933	0.12	1.69	7.87	2.75	4.80	0.25	0.28	0.26	0.00	0.00	0.00	0.00	18.02
1933	0.05	0.12	1.81	6.54	0.42	1.66	0.00	1.07	1.96	0.00	0.00	0.00	13.63
1934	0.36	0.00	2.88	0.80	3.39	0.00	0.00	0.02	1.75	0.00	0.00	0.00	9.20
1935	1.47	0.76	2.48	5.48	0.81	4.35	4.60	0.05	0.00	0.00	0.75	0.02	20.77
1936	0.45	1.62	1.97	2.60	7.85	1.15	1.26	0.01	0.09	0.15	0.00	0.22	17.37
1937	1.20	0.00	4.72	5.25	7.85	4.24	0.24	0.00	0.00	0.00	0.00	0.00	23.50
1938	0.19	0.69	2.23	3.20	6.40	4.57	1.81	0.01	0.00	0.00	0.00	0.67	19.77
1939	0.44	0.26	1.00	2.99	3.26	1.53	0.00	0.00	0.00	0.00	0.00	0.71	10.19
1940	0.81	0.66	1.59	7.80	4.64	3.37	0.47	0.00	0.00	0.00	0.00	0.00	19.34
1941	0.21	0.17	6.60	5.97	9.20	6.38	3.02	0.00	0.00	0.00	0.00	0.00	31.55
1942	1.46	0.87	8.89	2.21	1.02	2.58	0.00	0.00	0.00	0.00	0.00	0.00	17.03
1943	0.46	1.36	3.51	6.10	1.62	7.61	1.21	0.00	0.00	0.00	0.00	0.00	21.87
1944	1.22	0.41	3.60	1.81	5.91	1.20	1.31	0.18	0.00	0.00	0.00	0.00	15.64
1945	1.36	3.82	2.12	1.86	3.03	4.88	0.15	0.25	0.00	0.00	0.00	0.00	17.47
1946	0.85	0.84	3.71	0.88	1.90	4.30	0.08	0.25	0.00	0.00	0.00	0.00	12.81
1947	0.23	4.69	2.92	0.33	1.37	2.89	0.42	0.48	0.00	0.00	0.00	0.00	13.33
1948	0.60	0.00	1.00	0.02	1.96	5.84	2.96	1.52	0.00	0.00	0.00	0.00	13.90
1949	0.00	0.01	2.50	2.19	2.65	3.86	0.12	0.00	0.00	0.00	0.00	0.00	11.33
1950	0.00	0.91	5.16	4.42	4.35	1.84	0.00	0.00	0.00	0.41	0.00	0.00	17.09
1951	1.08	4.41	4.01	2.69	0.99	1.31	1.03	0.00	0.00	0.00	0.00	0.00	15.52
1952	0.64	1.25	7.68	6.83	0.70	6.83	1.06	0.00	0.07	0.00	0.00	0.00	25.06
1953	0.00	2.90	4.74	3.30	0.00	0.93	1.56	0.04	0.00	0.00	0.00	0.00	13.47
1954	0.00	3.84	0.57	5.00	2.74	4.55	1.01	0.06	0.06	0.00	0.00	0.00	17.83
1955	0.00	0.40	2.12	2.35	1.67	0.07	2.73	0.49	0.00	0.00	0.06	0.00	9.89
1956	0.00	2.04	6.61	2.08	0.85	0.00	2.30	0.42	0.00	0.00	0.00	0.00	14.30
1957	0.41	0.00	0.53	3.78	2.60	1.44	1.89	1.37	0.02	0.00	0.00	0.06	12.10
1958	2.88	2.22	1.65	3.18	6.22	7.53	4.75	0.00	0.00	0.00	0.00	0.61	29.04
1959	0.00	0.00	0.44	2.52	3.48	0.00	0.00	0.08	0.00	0.00	0.00	1.44	7.96
1960	0.00	0.00	0.69	4.66	5.56	1.48	2.12	0.02	0.00	0.00	0.00	0.00	14.53
1961	0.18	3.61	1.19	2.61	0.25	1.48	0.17	0.07	0.00	0.01	0.00	0.00	9.57
1962	0.00	2.37	1.03	2.57	10.67	1.71	0.13	0.08	0.00	0.00	0.00	0.00	18.56
1963	1.05	0.00	2.84	1.99	4.68	4.43	3.65	0.10	0.00	0.00	0.00	0.09	18.83
1964	2.06	2.91	0.34	1.65	0.00	1.79	1.57	0.25	0.48	0.00	0.00	0.00	11.05
1965	1.60	2.44	4.55	2.46	0.71	1.67	3.09	0.00	0.00	0.00	0.00	0.00	16.52
1966	0.00	6.06	3.47	1.77	1.31	0.12	0.32	0.00	0.02	0.20	0.00	0.90	14.17
1967	0.00	3.36	3.51	3.23	0.47	3.98	6.40	0.34	0.00	0.00	0.00	0.16	21.45
1968	0.00	3.46	1.60	0.67	1.32	3.22	0.00	0.00	0.00	0.00	0.00	0.00	10.27
1969	3.01	4.00	3.76	15.05	8.96	0.51	2.19	0.04	0.00	0.00	0.00	0.00	37.52
1970	1.34	0.96	2.92	5.56	2.33	1.47	0.20	0.00	0.00	0.00	0.00	0.00	14.78
1971	0.00	7.32	5.62	1.66	0.27	0.67	1.25	1.00	0.00	0.00	0.00	0.10	17.89
1972	0.18	1.44	4.41	0.64	0.58	0.00	0.81	0.00	0.00	0.00	0.00	0.00	8.06
1973	2.00	5.49	1.80	6.52	5.31	3.43	0.00	0.00	0.00	0.00	0.00	0.00	24.55
1974	1.58	4.32	3.05	6.75	0.41	8.28	2.30	0.00	0.00	0.00	0.00	0.00	26.69
1975	1.82	0.83	3.40	1.35	4.64	3.47	1.62	0.03	0.00	0.00	0.00	0.66	17.82
1976	1.46	0.23	0.25	0.07	5.13	0.90	0.79	0.00	0.00	0.00	1.47	2.88	13.18
1977	0.07	0.66	1.56	2.49	0.40	1.83	0.78	2.05	0.00	0.00	0.00	0.00	9.84
1978	0.12	0.76	8.23	7.05	7.47	5.81	4.18	0.00	0.07	0.00	0.00	0.92	34.61
1979	0.00	2.45	1.18	5.33	3.78	2.94	0.50	0.00	0.00	0.00	0.00	0.00	16.18
1980	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	0.00	0.00	0.85	3.68	3.40	8.02	0.33	0.00	0.00	0.00	0.00	0.00	16.28
1982	1.43	1.73	3.42	3.76	2.00	7.13	3.54	0.00	0.06	0.00	0.16	0.78	24.01

PRECIPITATION IN INCHES

STATION NAME: UNION OIL COMPANY
 LOCATION: AVILA BEACH
 GAGE NO: 55.0
 ELEVATION: 115.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 31 SOUTH
 RANGE: 12 EAST
 SECTION: 36Q

LONGITUDE: 35-10-40
 LATITUDE: 120-43-32
 RECORD BEGAN: 1932

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1983	1.54	3.59	2.46	7.82	10.56	7.93	2.70	0.17	0.00	0.00	0.55	1.47	38.79
1984	0.70	3.76	3.22	0.09	0.46	0.75	0.84	0.00	0.00	0.17	0.00	0.00	9.99
1985	1.46	3.80	3.42	1.42	1.77	2.53	0.40	0.00	0.00	0.05	0.00	0.18	15.03
1986	0.65	3.17	1.55	2.45	7.48	7.28	0.24	0.00	0.00	0.14	0.00	1.51	24.47
1987	0.00	0.43	1.12	2.67	2.61	4.95	0.36	0.09	0.03	0.00	0.00	0.00	12.26
1988	1.79	1.20	4.18	1.84	3.27	0.03	1.90	0.17	0.08	0.00	0.00	0.00	14.46
1989	0.00	2.47	7.02	0.85	1.32	2.84	0.00	0.20	0.00	0.00	0.00	1.91	16.61
1990	0.61	0.52	0.03	2.71	1.68	0.37	0.52	1.07	0.00	0.00	0.00	0.88	8.39
1991	0.00	0.33	0.43	1.00	3.47	10.82	0.15	0.00	0.24	0.00	0.05	0.00	16.49
1992	0.52	1.20	2.76	3.73	7.45	2.61	0.15	0.00	0.00	0.55	0.00	0.00	18.97
1993	0.80	0.00	4.92	6.52	6.79	5.25	0.29	0.45	0.25	0.00	0.00	0.00	25.27
1994	0.40	1.16	0.23	2.38	4.14	1.59	2.19	0.67	0.00	0.00	0.08	2.48	15.32
1995	1.28	2.31	1.62	12.80	1.55	12.43	0.98	1.00	0.87	0.00	0.00	0.00	34.84
SUM	44.16	115.86	187.99	227.99	215.42	209.26	81.02	15.68	6.05	1.68	3.12	18.65	1126.88
N	65	65	65	65	65	65	65	65	65	65	65	65	64
MEAN	0.69	1.81	2.94	3.56	3.37	3.27	1.27	0.25	0.09	0.03	0.05	0.29	17.61
MEAN for 1984-95 WATER YEARS													
	0.68	1.70	2.54	3.21	3.50	4.29	0.67	0.30	0.12	0.08	0.01	0.58	17.68
MAX	3.01	7.32	8.89	15.05	10.67	12.43	6.40	2.05	1.96	0.55	1.47	2.88	38.79
MIN	0.00	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.96
STD	0.75	1.71	2.14	2.77	2.77	2.82	1.40	0.44	0.34	0.09	0.21	0.61	7.12

PRECIPITATION IN INCHES

STATION NAME: COUNTY YARD
 LOCATION: ARROYO GRANDE
 GAGE NO: 85.0
 ELEVATION: 125.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 32 SOUTH
 RANGE: 13 EAST
 SECTION: 22

LONGITUDE: 35-07-26
 LATITUDE: 120-34-24
 RECORD BEGAN: 1940

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1940	1.16	0.89	1.65	5.83	3.50	1.10	1.85	0.00	0.00	0.00	0.00	0.00	15.98
1941	0.74	0.23	6.90	6.43	7.91	7.71	3.46	0.10	0.00	0.00	0.00	0.00	33.48
1942	0.98	0.61	8.41	1.41	0.94	2.33	3.88	0.22	0.00	0.00	0.00	0.00	18.78
1943	0.48	1.31	3.47	7.35	1.08	5.78	1.03	0.00	0.00	0.00	0.00	0.00	20.50
1944	0.92	0.37	4.14	1.52	5.51	0.80	1.94	0.19	0.01	0.00	0.00	0.00	15.40
1945	0.39	3.22	1.92	0.25	3.58	3.89	0.11	0.05	0.05	0.00	0.00	0.10	13.56
1946	0.71	0.74	3.17	0.46	1.92	3.51	0.17	0.03	0.00	0.09	0.00	0.00	10.80
1947	0.58	4.38	1.84	0.42	0.94	2.15	0.29	0.31	0.22	0.00	0.00	0.07	11.20
1948	0.98	0.12	1.38	0.08	1.76	3.65	2.31	1.03	0.00	0.00	0.00	0.00	11.31
1949	0.08	0.00	3.38	1.45	2.89	4.58	0.09	0.81	0.12	0.00	0.00	0.02	13.40
1950	0.04	0.87	2.96	2.86	2.76	1.16	0.98	0.12	0.00	0.48	0.00	0.03	12.24
1951	1.14	2.84	1.71	2.87	1.12	0.84	1.02	0.00	0.00	0.00	0.00	0.09	11.63
1952	0.37	2.06	5.46	5.87	0.60	5.75	0.96	0.00	0.00	0.00	0.00	0.00	21.07
1953	0.00	2.91	4.98	1.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.44
1954	0.00	2.64	0.35	3.68	1.59	2.68	0.00	0.00	0.00				
1955													
1956													
1957													
1958													
1959										0.00	0.00	0.60	
1960	0.00	0.00	0.61	3.98	5.15	1.25	2.88	0.00	0.00	0.00	0.00	0.00	13.87
1961	0.70	4.74	1.38	1.18	0.33	1.04	0.26	0.35	0.00	0.01	0.00	0.00	9.99
1962	0.00	2.01	1.62	3.44	10.16	1.60	0.00	0.10	0.02	0.00	0.00	0.00	18.95
1963	0.08	0.00	1.55	0.83	4.70	3.47	3.69	0.28	0.03	0.00	0.05	0.29	14.97
1964	1.94	2.47	0.20	1.84	0.02	1.71	0.93	0.64	0.21	0.00	0.00	0.18	10.14
1965	1.76	2.54	3.20	2.36	0.32	1.86	2.93	0.00	0.00	0.00	0.00	0.00	14.97
1966	0.04	6.25	3.40	1.62	0.03	0.14	0.06	0.00	0.00	0.00	0.12	0.77	12.43
1967	0.00	3.29	3.82	3.86	0.63	3.58	5.28	0.22	0.09	0.00	0.00	0.78	21.55
1968	0.00	3.35	1.74	0.84	1.35	2.52	0.88	0.07	0.00	0.00	0.00	0.00	10.75
1969	2.69	1.75	2.89	10.71	8.05	0.94	2.23	0.02	0.06	0.10	0.00	0.10	29.54
1970	0.58	1.20	1.24	3.70	0.42	3.28	0.10	0.00	0.03	0.00	0.00	0.00	10.55
1971	0.22	4.86	4.09	1.74	0.15	0.66	0.93	1.24	0.01	0.00	0.00	0.07	13.97
1972	0.12	1.25	5.01	0.60	0.48	0.02	0.53	0.00	0.02	0.06	0.00	0.03	8.12
1973	1.65	4.81	1.82	6.57	6.28	3.95	0.04	0.03	0.03	0.00	0.00	0.07	25.25
1974	0.80	3.27	2.56	6.41	0.21	5.42	2.32	0.00	0.00	0.06	0.00	0.00	21.05
1975	1.57	0.52	3.85	0.25	3.42	2.90	1.04	0.02	0.00	0.00	0.00	0.00	13.57
1976	1.51	0.17	0.15	6.41	0.21	5.42	2.32	0.00	0.00	0.00	1.05	3.12	20.36
1977	0.11	0.66	1.55	0.95	0.12	1.85	0.00	2.39	0.00	0.00	0.00	0.00	7.63
1978	0.03	0.53	5.54	6.04	6.47	4.77	4.19	0.00	0.00	0.00	0.00	1.16	28.73
1979	0.00	2.24	1.27	3.66	4.33	3.55	0.45	0.00	0.00	0.00	0.00	0.02	15.52
1980	1.14	0.57	2.47	5.49	5.56	2.22	0.65	0.30	0.00	0.10	0.00	0.00	18.50
1981	0.00	0.00	1.12	2.65	2.03	7.05	0.50	0.01	0.00				
SUM	23.51	69.67	102.80	117.16	96.52	105.11	50.30	8.53	0.90	0.88	1.22	7.50	559.20
N	37	37	37	37	37	37	37	37	37	36	36	36	35
MEAN	0.64	1.88	2.78	3.17	2.61	2.84	1.36	0.23	0.02	0.02	0.03	0.21	15.98
MAX	2.69	6.25	8.41	10.71	10.16	7.71	5.28	2.39	0.22	0.46	1.05	3.12	33.48
MIN	0.00	0.00	0.15	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.63
STD	0.67	1.65	1.85	2.52	2.66	1.95	1.39	0.46	0.05	0.08	0.17	0.56	6.17

PRECIPITATION IN INCHES

STATION NAME: POLICE DEPARTMENT
 LOCATION: ARROYO GRANDE
 GAGE NO: 87.0
 ELEVATION: 120.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 32 SOUTH
 RANGE: 13 EAST
 SECTION: 22M

LONGITUDE: 35-07-06
 LATITUDE: 120-34-35
 RECORD BEGAN: 1940

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1940	1.16	0.89	1.65	5.83	3.50	1.10	1.85	0.00	0.00	0.00	0.00	0.01	15.99
1941	0.85	0.23	6.90	6.43	7.91	7.71	3.46	0.00	0.00	0.00	0.04	0.00	33.53
1942	0.98	0.61	8.41	1.41	0.94	2.33	3.88	0.22	0.00	0.00	0.00	0.00	18.78
1943	0.48	1.31	3.47	7.35	1.08	5.78	1.03	0.00	0.00	0.00	0.00	0.00	20.50
1944	0.92	0.37	4.14	1.52	5.51	0.80	1.94	0.19	0.01	0.00	0.00	0.00	15.40
1945	0.39	3.22	1.92	0.25	3.58	3.89	0.11	0.05	0.05	0.00	0.00	0.10	13.56
1946	0.71	0.74	3.17	0.46	1.92	3.51	0.17	0.15	0.00	0.09	0.00	0.00	10.92
1947	0.58	4.38	1.84	0.42	0.94	2.15	0.29	0.31	0.22	0.00	0.00	0.07	11.20
1948	0.98	0.12	1.38	0.08	1.76	3.65	2.31	1.03	0.00	0.00	0.00	0.00	11.31
1949	0.08	0.00	3.38	1.45	2.89	4.56	0.19	0.81	0.02	0.00	0.00	0.02	13.40
1950	0.04	0.87	2.96	2.86	2.76	1.16	1.06	0.12	0.00	0.46	0.00	0.03	12.32
1951	1.14	2.84	1.71	2.87	1.12	0.84	1.02	0.00	0.00	0.00	0.00	0.09	11.63
1952	0.37	2.06	5.46	5.87	0.60	5.75	0.96	0.00	0.00	0.00	0.00	0.00	21.07
1953	0.00	2.91	5.07	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.43
1954	0.00	4.09	0.35	3.68	1.59	2.67	0.00	0.00	0.00	0.00	0.00	0.00	12.38
1955	0.00	1.53	1.81	3.35	1.21	0.19	1.64	0.98	0.00	0.00	0.00	0.00	10.71
1956	0.00	2.34	6.95	4.56	0.86	0.00	2.03	0.69	0.00	0.00	0.00	0.00	17.43
1957	0.40	0.00	0.63	3.32	2.91	0.76	1.83	1.44	0.28	0.00	0.00	0.00	11.57
1958	1.72	0.36	3.15	3.53	5.67	6.27	5.06	0.19	0.00	0.00	0.18	1.24	27.37
1959	0.00	0.31	0.41	3.19	4.77	0.53	0.00	0.00	0.00	0.00	0.00	0.70	9.91
1960	0.00	0.00	0.61	4.16	5.69	1.31	2.90	0.00	0.00	0.00	0.00	0.00	14.67
1961	0.65	4.69	1.58	1.36	0.14	1.48	0.35	0.11	0.00	0.00	0.00	0.00	10.36
1962	0.00	2.52	1.30	3.44	10.38	1.68	0.12	0.06	0.05	0.00	0.00	0.00	19.55
1963	0.84	0.00	1.15	0.86	4.70	3.21	3.86	0.28	0.00	0.00	0.00	0.00	14.90
1964	2.36	2.40	0.22	1.56	0.00	1.67	0.95	0.41	0.21	0.00	0.00	0.18	9.96
1965	1.70	2.38	3.21	2.33	0.33	1.75	3.01	0.00	0.00	0.00	0.00	0.00	14.71
1966	0.04	6.50	3.47	1.70	1.01	0.10	0.00	0.00	0.00	0.11	0.00	0.80	13.73
1967	0.00	3.29	3.65	4.48	0.72	3.50	5.20	0.23	0.04	0.00	0.00	1.14	22.25
1968	0.00	3.17	1.79	0.43	1.22	2.13	0.94	0.05	0.00	0.00	0.00	0.00	9.73
1969	2.52	1.68	2.70	10.86	7.78	0.95	2.30	0.00	0.08	0.11	0.00	0.08	29.06
1970	0.53	1.46	1.21	3.61	1.24	2.66	0.07	0.00	0.05	0.00	0.00	0.00	10.83
1971	0.21	4.78	4.35	1.64	0.00	0.68	0.90	1.20	0.01	0.00	0.00	0.01	13.78
1972	0.09	1.88	5.05	0.58	0.48	0.00	0.32	0.00	0.00	0.09	0.00	0.03	8.52
1973	1.71	4.36	1.67	6.64	6.38	3.92	0.03	0.01	0.00				
SUM	21.45	68.29	96.72	103.53	91.59	78.69	49.78	8.53	1.02	0.86	0.22	4.50	500.46
N	34	34	34	34	34	34	34	34	34	33	33	33	33
MEAN	0.63	2.01	2.84	3.05	2.69	2.31	1.46	0.25	0.03	0.03	0.01	0.14	15.17
MAX	2.52	6.50	8.41	10.86	10.38	7.71	5.20	1.44	0.28	0.46	0.18	1.24	33.53
MIN	0.00	0.00	0.22	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.52
STD	0.69	1.68	2.00	2.39	2.63	1.96	1.48	0.39	0.07	0.08	0.03	0.32	5.91

PRECIPITATION IN INCHES

STATION NAME: RANCHITA RANCH
 LOCATION: ARROYO GRANDE RD.
 GAGE NO: 100.0
 ELEVATION: 640.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 31 SOUTH
 RANGE: 14 EAST
 SECTION: 25F

LONGITUDE: 35-12-03
 LATITUDE: 120-25-47
 RECORD BEGAN: 1944

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1944	0.93	0.38	4.19	2.39	9.74	1.87	2.00	0.00	0.00	0.00	0.00	0.00	21.50
1945	1.00	5.00	2.50	1.00	5.75	4.99	0.00	0.00	0.00	0.00	0.00	0.00	20.24
1946	2.00	1.25	5.25	0.50	3.25	6.00	0.60	0.00	0.40	0.30	0.00	0.00	19.55
1947	0.70	7.25	3.25	1.00	1.50	3.25	0.60	0.00	0.40	0.00	0.00	0.00	17.95
1948	1.50	0.00	1.50	0.00	3.25	6.50	3.75	0.00	0.00				
1949													
1950													
1951													
1952													
1953													
1954													
1955													
1956													
1957													
1958													
1959										0.00	0.02	4.71	
1960	0.00	0.00	0.41	6.73	8.34	1.47	2.09	0.20	0.00				
1961													0.00
1962	0.00	3.51	2.05	4.59	11.54	1.46	0.00	0.09	0.00	0.00	0.00	0.00	23.24
1963	0.95	0.00	0.55	0.00	6.30	3.00	4.10	0.60	0.00	0.00	0.00	0.75	16.25
1964	1.30	3.50	0.20	2.25	0.00	3.15	0.70	0.30	0.30	0.00	0.00	0.00	11.70
1965	1.65	4.88	4.05	3.40	1.10	3.60	4.05	0.00	0.00	0.00	0.00	0.00	22.73
1966	0.00	8.35	4.30	1.45	1.60	0.10	0.13	0.00	0.00	0.10	0.00	0.89	16.92
1967	0.00	4.52	7.25	6.84	0.71	6.35	6.56	0.30	1.88	0.00	0.00	1.60	36.01
1968	0.00	3.60	2.70	1.70	1.47	3.25	1.65	0.00	0.00	0.00	0.00	0.00	14.37
1969	0.75	1.87	3.24	20.35	12.55	1.18	2.90	0.00	0.00	0.00	0.00	0.00	42.84
1970	0.55	0.90	1.30	5.75	3.35	3.20	0.00	0.00	0.00	0.00	0.00	0.00	15.05
1971	0.16	5.85	6.25	2.50	1.45	0.30	1.40	1.50	0.00	0.00	0.00	0.00	19.41
1972	0.20	1.50	6.09	0.56	0.65	0.00	0.86	0.42	0.00	0.00	0.00	0.00	10.28
1973	1.55	5.26	1.95	7.41	9.21	4.47	0.00	0.00	0.00	0.00	0.00	0.00	29.85
1974	1.05	5.76	4.15	7.36	0.40	7.40	1.99	0.00	0.00	0.00	0.00	0.00	28.11
1975	2.07	0.86	4.68	0.18	5.19	4.37	2.13	0.00	0.00	0.00	0.00	0.00	19.48
1976	1.62	0.30	0.15	0.00	3.92	2.73	1.33	0.00	0.05	0.00	1.13	5.00	16.23
1977	1.09	0.75	2.00	1.31	0.30	1.52	0.04	2.26	0.01	0.00	0.03	0.00	9.31
1978	0.04	0.65	9.60	8.40	10.42	6.72	4.08	0.00	0.00	0.00	0.00	1.52	41.43
1979	0.00	2.09	1.48	5.58	4.79	5.28	0.35	0.00	0.00	0.00	0.00	0.15	19.72
1980	1.16	0.83	2.21	9.80	9.54	3.25	0.83	0.50	0.00	0.10	0.00	0.00	28.22
1981	0.03	0.00	1.61	5.52	2.71	7.80	0.70	0.00	0.00	0.00	0.00	0.00	18.37
1982													
1983	0.80	7.60	3.20	8.70	8.75	10.40	3.90	0.00	0.00	0.00	1.00	0.00	44.35
1984	1.90	6.55	6.20	0.00	0.65	0.95	0.00	0.00	0.00	0.00	0.00	0.00	16.25
1985	1.65	4.75	3.55	1.55	2.25	3.34	0.00	0.00	0.00	0.00	0.00	0.00	17.09
1986	0.52	4.40	1.50	2.40	7.40	7.30	0.50	0.00	0.00	0.00	0.00	2.19	26.21
1987	0.00	0.40	1.39	2.60	2.90	5.23	0.26	0.00	0.00				
SUM	25.17	92.56	98.75	121.82	140.98	120.43	47.50	6.17	3.04	0.50	2.18	16.81	622.66
N	31	31	31	31	31	31	31	31	31	29	29	30	28
MEAN	0.81	2.99	3.19	3.93	4.55	3.88	1.53	0.20	0.10	0.02	0.08	0.56	22.24
MAX	2.07	8.35	9.60	20.35	12.55	10.40	6.56	2.26	1.88	0.30	1.13	5.00	44.35
MIN	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.31
STD	0.69	2.58	2.21	4.20	3.74	2.52	1.65	0.48	0.34	0.06	0.27	1.28	9.22

PRECIPITATION IN INCHES

STATION NAME: POLICE DEPARTMENT
 LOCATION: PISMO BEACH
 GAGE NO: 126.0
 ELEVATION: 80.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 32 SOUTH
 RANGE: 12 EAST
 SECTION: 13

LONGITUDE: 35-08-00
 LATITUDE: 120-38-00
 RECORD BEGAN: 1955

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1955	0.00	1.89	2.18	5.23	2.02	0.09	2.35	1.24	0.00	0.00	0.06	0.00	15.06
1956	0.00	2.52	6.72	4.37	1.20	0.00	2.29	0.70	0.00	0.00	0.00	0.00	17.80
1957	0.48	0.00	0.45	3.57	2.99	0.63	1.70	1.03	0.22	0.00	0.00	0.00	11.07
1958	2.47	0.45	2.96	3.62	7.89	8.08	5.57	0.25	0.00	0.00	0.00	1.45	32.74
1959	0.00	0.16	0.37	2.68	4.66	0.00	0.37	0.06	0.00	0.00	0.00	0.85	9.15
1960	0.00	0.00	0.86	3.55	6.36	1.13	2.46	0.02	0.00	0.00	0.00	0.00	14.38
1961	0.64	4.41	1.06	1.72	0.12	1.46	0.26	0.10	0.00	0.00	0.09	0.01	9.87
1962	0.00	1.82	1.17	2.48	9.92	1.41	0.07	0.04	0.02	0.00	0.00	0.00	16.93
1963	0.69	0.04	1.80	1.75	4.15	3.49	4.20	0.22	0.05	0.00	0.00	0.33	16.72
1964	2.23	2.61	0.23	1.80	0.00	2.07	0.64	0.49	0.24	0.00	0.10	0.04	10.45
1965	1.56	2.35	2.92	2.32	0.43	1.95	2.70	0.00	0.00	0.00	0.00	0.00	14.23
1966	0.00	5.76	3.55	1.32	1.08	0.13	0.00	0.00	0.00	0.00	0.00	1.05	12.89
1967	0.00	2.94	3.37	3.30	0.98	3.40	5.76	0.48	0.05	0.00	0.00	0.61	20.89
1968	0.00	3.09	1.66	2.40	1.66	2.75	1.36	0.16	0.00	0.00	0.00	0.00	13.08
1969	2.74	2.66	6.40	13.18	7.27	0.57	2.38	0.04	0.05	0.10	0.00	0.12	35.51
1970	0.91	1.13	1.70	4.33	1.90	1.95	0.07	0.00	0.04	0.00	0.00	0.00	12.03
1971	0.22	4.73	4.28	1.55	0.19	0.63	1.33	1.09	0.00	0.00	0.00	0.12	14.14
1972	0.21	1.68	3.11	0.28	0.62	0.04	0.63	0.02	0.19	0.04	0.00	0.05	6.87
1973	2.83	5.31	1.56	6.67	5.38	3.95	0.00	0.09	0.00	0.00	0.00	0.10	25.89
1974	0.83	2.34	3.13	6.77	0.00	6.05	1.60	0.00	0.00	0.00	0.00	0.00	20.72
1975	1.76	0.50	3.69	0.37	3.96	2.50	0.22	0.00	0.00	0.00	0.00	0.00	13.00
1976	0.29	0.17	0.00	0.00	3.84	1.82	0.82	0.00	0.00	0.00	0.00	4.20	11.14
1977	0.03	0.86	1.52	1.53	0.20	1.80	0.00	2.25	0.00				
SUM	17.89	47.42	54.69	74.79	66.82	45.90	36.78	8.28	0.86	0.14	0.25	8.93	354.56
N	23	23	23	23	23	23	23	23	23	22	22	22	22
MEAN	0.78	2.06	2.38	3.25	2.91	2.00	1.60	0.36	0.04	0.01	0.01	0.41	16.12
MAX	2.83	5.76	6.72	13.18	9.92	8.08	5.76	2.25	0.24	0.10	0.10	4.20	35.51
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.87
STD	0.96	1.71	1.75	2.76	2.81	1.96	1.66	0.55	0.07	0.02	0.03	0.92	7.10

PRECIPITATION IN INCHES

STATION NAME: SPENCER RANCH
 LOCATION: LOPEZ LAKE
 GAGE NO: 127.1
 ELEVATION: 510.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 31 SOUTH
 RANGE: 14 EAST
 SECTION: 22F

LONGITUDE: 35-12-27
 LATITUDE: 120-26-49
 RECORD BEGAN: 1951

WATER YEAR													WATER YEAR
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1951	2.50	5.50	2.90	3.30	1.80	1.80	2.30	0.20	0.00	0.00	0.00	0.00	20.30
1952	1.00	2.80	9.50	15.20	1.90	8.20	1.60	0.20	0.00	0.00	0.00	0.00	40.40
1953	0.00	3.50	8.00	3.80	0.00	2.10	3.00	3.70	0.00	0.00	0.00	0.00	24.10
1954	0.00	2.50	0.80	6.70	3.70	6.10	1.00	0.50	0.20	0.00	0.00	0.00	21.50
1955	0.00	2.20	2.50	6.00	2.80	0.10	1.80	1.50	0.00	0.00	0.00	0.00	16.90
1956	0.00	2.30	12.60	7.10	1.30	0.30	3.70	1.50	0.00	0.00	0.00	0.00	28.80
1957	1.00	0.00	1.00	6.30	2.50	1.60	3.10	2.60	0.20	0.00	0.00	1.80	20.10
1958	2.80	0.70	5.50	5.20	8.20	9.80	8.90	0.20	0.00	0.00	0.00	0.00	41.30
1959	0.00	0.10	0.60	4.10	4.90	0.00	1.40	0.00	0.00	0.00	0.00	1.40	12.50
1960	0.00	0.00	0.60	4.40	8.00	2.30	3.20	0.00	0.00	0.00	0.00	0.00	18.50
1961	0.90	6.30	2.40	2.50	0.20	1.90	0.30	0.00	0.00	0.00	0.00	0.00	14.50
1962	0.00	5.20	0.00	6.40	14.50	2.40	0.00	0.00	0.00	0.00	0.00	0.00	28.50
1963	1.90	0.00	0.00	0.00	8.80	2.40	5.20	0.50	0.00	0.00	0.00	0.30	19.10
1964	1.60	5.40	0.20	2.20	0.00	4.40	0.00	0.30	0.40	0.00	0.00	0.00	14.50
1965	2.50	5.10	5.60	3.80	0.00	3.10	3.20	0.00	0.00	0.00	0.00	0.00	23.30
1966	0.00	9.00	5.50	2.00	1.20	0.00	0.20	0.00	0.00	0.00	0.00	0.90	18.80
1967	0.00	4.00	10.00	5.10	0.90	4.60	5.70	0.20	0.20	0.00	0.00	1.14	31.84
1968	0.00	3.61	3.16	1.60	1.45	3.41	1.87	0.25	0.00	0.00	0.00	0.00	15.35
1969	3.30	2.22	3.95	21.33	11.51	1.27	2.98	0.00	0.09	0.00	0.00	0.00	46.65
1970	0.90	1.00	1.50	7.80	5.10	1.60	0.00	0.00	0.00	0.00	0.00	0.00	17.90
1971	0.00	8.30	5.10	2.40	0.10	1.50	1.70	0.00	0.00	0.00	0.00	0.00	19.10
1972	0.00	1.70	6.90	0.80	0.80	0.00	0.90	0.30	0.00	0.00	0.00	0.00	11.40
1973	2.00	5.60	2.90	7.50	10.10	5.20	0.00	0.00	0.00	0.00	0.00	0.00	33.30
1974	1.10	5.60	4.90	8.40	0.30	7.80	2.30	0.00	0.00	0.00	0.00	0.00	30.40
1975	1.50	0.70	4.00	0.10	4.50	4.10	1.30	0.00	0.00	0.00	0.00	0.00	16.20
1976	2.05	0.10	0.30	0.00	3.90	3.30	1.10	0.00	0.00	0.00	1.60	1.60	13.95
1977	1.00	0.90	2.50	1.20	0.10	1.60	0.00	2.20	0.00	0.00	0.00	0.00	9.50
1978	0.00	0.80	8.50	6.60	11.80	6.80	3.30	0.00	0.00	0.00	0.00	1.50	39.30
1979	0.00	2.20	2.00	5.20	6.70	5.40	0.00	0.00	0.00	0.00	0.00	0.00	21.50
1980	1.50	1.20	2.70	11.70	11.60	2.60	1.00	0.70	0.00	0.00	0.00	0.00	33.00
1981	0.00	0.00	1.30	5.10	2.60	10.60	0.40	0.00	0.00	0.00	0.00	0.00	20.00
1982	1.50	1.20	3.50	5.00	0.80	6.80	5.50	0.00	0.00	0.00	0.00	0.65	24.95
1983	3.50	8.26	3.51	7.46	7.44	6.45	2.23	0.24	0.00	0.00	0.85	0.00	39.94
1984	1.51	4.87	8.07	0.00	0.80	0.75	0.47	0.00	0.00	0.00	0.00	0.00	16.47
1985	0.50	2.10	1.35	2.35	4.60	3.44	0.24	0.00	0.00				
1986													
1987										0.00	0.00	0.00	
1988	2.65	0.95	4.40	2.00	3.50	0.00	4.00	0.00	0.00	0.00	0.00	0.00	17.50
1989	0.00	2.40	8.43	0.60	2.00	2.75	0.45	0.00	0.00	0.00	0.00	1.80	18.43
1990	1.60	0.55	0.00	3.45	2.35	0.65	0.30	1.10	0.00	0.00	0.00	0.00	10.00
1991	0.00	0.50	0.90	1.10	3.05	16.00	0.20	0.00	0.00				
SUM	38.81	109.36	147.57	185.79	155.80	143.12	74.84	16.19	1.09	0.00	2.45	11.09	849.78
N	39	39	39	39	39	39	39	39	39	39	38	38	37
MEAN	1.00	2.80	3.78	4.76	3.99	3.67	1.92	0.42	0.03	0.00	0.06	0.29	22.97
MAX	3.50	9.00	12.60	21.33	14.50	16.00	8.90	3.70	0.40	0.00	1.60	1.80	46.65
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.50
STD	1.06	2.51	3.18	4.21	3.90	3.40	1.96	0.81	0.08	0.00	0.29	0.58	9.50

PRECIPITATION IN INCHES

STATION NAME: PEROZZI RANCH
 LOCATION: SAN LUIS OBISPO
 GAGE NO: 129.0
 ELEVATION: 470.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 31 SOUTH
 RANGE: 13 EAST
 SECTION: 6G

LONGITUDE: 35-15-40
 LATITUDE: 120-37-20
 RECORD BEGAN: 1952

WATER YEAR													WATER YEAR
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1952	1.03	2.41	8.43	8.98	0.98	6.88	0.96	0.00	0.00	0.08	0.00	0.00	29.75
1953	0.00	3.47	6.83	3.17	0.00	1.26	2.79	0.00	0.01	0.00	0.00	0.00	17.53
1954	0.00	4.20	0.50	5.62	3.24	5.04	1.66	0.14	0.00	0.00	0.00	0.00	20.40
1955													
1956													
1957	0.83	0.00	0.63	2.53	3.70	1.02	2.79	2.40	0.25	0.00	0.00	0.00	14.15
1958	1.54	0.75	4.76	3.55	8.04	9.86	4.86	0.27	0.00	0.00	0.00	1.30	34.93
1959	0.00	0.42	0.25	2.94	5.58	0.04	0.88	0.07	0.00	0.00	0.00	0.69	10.87
1960	0.00	0.00	0.82	4.50	7.32	1.70	2.49	0.07	0.00	0.00	0.00	0.00	16.90
1961	0.35	3.53	1.78	2.56	0.36	2.26	0.34	0.16	0.00	0.00	0.00	0.00	11.36
1962	0.00	3.82	1.51	3.52	12.69	1.87	0.22	0.00	0.10	0.00	0.00	0.00	23.73
1963	1.39	0.05	2.31	4.65	4.68	4.28	3.52	0.41	0.06	0.00	0.00	0.22	21.57
1964	2.05	4.68	0.13	2.12	0.10	3.48	0.07	1.28	0.22	0.00	0.11	0.00	14.24
1965	1.48	4.08	4.71	3.36	0.53	3.05	3.58	0.00	0.00	0.07	0.00	0.00	20.86
1966	0.01	7.77	3.75	1.88	1.08	0.24	0.60	0.00	0.00	0.00	0.00	1.13	16.46
1967	0.00	3.92	6.95	5.22	0.61	5.76	6.47	0.40	0.29	0.00	0.00	1.29	30.91
1968	0.00	3.88	2.17	1.89	1.59	2.79	1.10	0.00	0.00	0.00	0.00	0.00	13.42
1969	2.96	2.25	3.73	18.92	11.59	1.18	3.02	0.00	0.00	0.00	0.00	0.16	43.81
1970	0.40	1.07	1.43	5.84	2.47	1.65	0.08	0.00	0.00	0.00	0.00	0.00	12.94
1971	0.17	6.02	7.81	1.78	0.26	0.52	1.49	1.08	0.00	0.00	0.00	0.00	19.13
1972	0.00	1.59	6.22	1.09	0.77	0.00	1.02	0.00	0.00	0.00	0.00	0.00	10.69
1973	2.41	5.35	1.96	10.17	8.03	5.02	0.00	0.00	0.00	0.00	0.00	0.08	33.02
1974	2.64	3.68	4.30	8.31	0.31	8.38	3.12	0.00	0.06	0.00	0.00	0.00	30.80
1975	1.83	0.96	4.09	0.27	7.76	5.01	1.61	0.00	0.00	0.00	0.00	0.06	21.59
1976	2.18	0.29	0.11	0.06	5.15	1.18	1.50	0.00	0.00	0.00	1.07	3.79	15.33
1977	0.37	0.72	2.30	1.66	0.10	1.58	0.02	2.92	0.00	0.00	0.00	0.03	9.70
1978	0.05	0.42	8.95	10.47	11.20	9.00	6.12	0.00	0.00	0.00	0.00	1.19	47.40
1979	0.00	2.51	1.58	4.40	5.46	4.13	0.32	0.00	0.00	0.00	0.00	0.00	18.40
1980	1.03	0.98	2.27	9.72	9.03	2.99	0.91	0.51	0.00	0.38	0.00	0.00	27.82
1981	0.00	0.04	1.57	5.37	2.27	8.60	0.55	0.00	0.00	0.00	0.00	0.00	18.40
1982	1.67	2.67	1.53	5.02	1.78	6.49	6.37	0.06	0.18	0.00	0.15	0.40	26.32
1983	1.83	6.31	6.40	9.19	10.52	8.34	2.39	0.45	0.00	0.00	0.76	1.19	47.38
1984	1.41	4.18	6.64	0.25	0.83	0.75	0.66	0.00	0.00	0.00	0.05	0.00	14.77
1985	1.03	3.74	3.89	0.80	1.86	3.16	0.20	0.00	0.00	0.00	0.00	0.09	14.77
1986	1.14	3.91	2.00	2.33	9.15	7.13	0.19	0.00	0.00	0.06	1.23	0.00	27.14
1987	0.00	0.37	1.64	3.75	2.60	4.60	0.36	0.00	0.00	0.00	0.00	0.00	13.32
1988	2.45	1.19	3.07	2.53	3.00	0.70	2.65	0.11	0.12	0.00	0.00	0.00	15.82
1989	0.00	2.05	6.93	0.89	1.74	2.41	0.58	0.13	0.00	0.00	0.00	1.44	16.17
1990	1.35	0.55	0.02	2.77	2.68	0.52	0.52	1.29	0.00	0.00	0.00	0.55	10.25
1991	0.00	0.40	0.72	0.81	2.38	12.99	0.40	0.00	0.82	0.00	0.06	0.00	18.58
1992	0.57	0.45	4.37	2.82	9.10	2.33	0.05	0.00	0.00	0.54	0.00	0.00	20.23
1993	1.52	0.00	6.20	8.98	7.38	4.19	0.22	0.22	0.16	0.00	0.00	0.00	28.87
1994	0.52	2.34	1.55	2.81	5.51	1.46	1.58	1.10	0.00	0.00	0.00	2.15	19.02
1995	1.58	2.57	1.24	15.05	2.12	14.13	1.25	1.18	0.71	0.00	0.00	0.00	39.83
SUM	37.79	99.59	138.05	192.55	175.55	167.99	69.51	14.25	2.98	1.13	3.43	15.76	918.58
N	42	42	42	42	42	42	42	42	42	42	42	42	42
MEAN	0.90	2.37	3.29	4.58	4.18	4.00	1.66	0.34	0.07	0.03	0.08	0.38	21.87
MEAN for 1984-95 WATER YEARS													
MAX	0.96	1.81	3.19	3.65	4.03	4.53	0.72	0.34	0.15	0.05	0.11	0.35	19.90
MIN	2.96	7.77	8.95	18.92	12.69	14.13	6.47	2.92	0.82	0.54	1.23	3.79	47.40
MIN	0.00	0.00	0.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.70
STD	0.89	1.98	2.52	4.00	3.68	3.44	1.75	0.65	0.17	0.10	0.27	0.75	9.86

PRECIPITATION IN INCHES

STATION NAME: A. B. CUNNINGHAM
 LOCATION: OAK PARK
 GAGE NO: 141.1
 ELEVATION: 180.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 32 SOUTH
 RANGE: 13 EAST
 SECTION: 8R

LONGITUDE: 35-09-06
 LATITUDE: 120-35-47
 RECORD BEGAN: 1954

WATER YEAR													WATER YEAR
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1954	0.00	3.46	0.35	5.71	2.40	4.58	1.25	0.00	0.00	0.00	0.00	0.00	17.75
1955	0.00	1.92	2.04	4.93	2.42	0.20	3.10	0.61	0.00	0.00	0.00	0.00	15.22
1956	0.00	3.26	6.70	5.58	1.30	0.00	2.49	0.89	0.00	0.00	0.00	0.00	20.22
1957	0.55	0.00	0.65	3.78	3.12	0.70	2.08	1.95	0.00	0.00	0.00	0.00	12.83
1958	1.89	0.23	3.23	3.95	8.60	8.81	6.07	0.25	0.00	0.00	0.00	1.58	34.61
1959	0.00	0.17	0.40	2.92	5.08	0.00	0.40	0.07	0.00	0.00	0.00	0.75	9.79
1960	0.00	0.00	0.55	4.03	6.02	1.22	2.48	0.00	0.00	0.03	0.00	0.00	14.33
1961	1.15	4.34	1.48	1.60	0.17	1.55	0.77	0.10	0.00	0.00	0.00	0.00	11.16
1962	0.00	2.48	1.27	2.84	11.18	1.58	0.09	0.00	0.08	0.00	0.00	0.00	19.50
1963	0.82	1.52	0.00	1.80	4.33	3.61	4.36	0.21	0.05	0.00	0.00	0.18	16.88
1964	2.16	2.90	0.25	1.40	0.10	2.85	0.00	0.00	0.30	0.00	0.00	0.00	9.96
1965	1.80	2.67	4.41	3.76	0.70	2.83	4.53	0.00	0.00	0.00	0.00	0.00	20.70
1966	0.00	7.64	4.18	1.91	1.89	0.15	0.00	0.00	0.00	0.00	0.00	0.88	16.65
1967	0.00	3.04	5.80	4.65	0.51	3.98	6.02	0.30	0.07	0.00	0.00	0.85	25.22
1968	0.00	3.26	2.10	1.33	1.67	2.83	1.30	0.00	0.00	0.00	0.00	0.00	12.49
1969	0.60	4.60	3.63	17.57	7.85	1.05	3.15	0.00	0.00	0.00	0.00	0.00	38.45
1970	1.48	1.72	2.58	5.80	2.45	2.75	0.00	0.00	0.00	0.00	0.00	0.00	16.78
1971	0.21	8.85	8.31	1.98	0.12	1.35	1.40	1.50	0.00	0.00	0.00	0.00	23.72
1972	0.25	1.83	8.13	0.62	1.07	0.00	0.35	0.00	0.00	0.00	0.00	0.00	12.25
1973	2.10	8.99	2.13	11.58	11.60	6.90	0.00	0.00	0.00	0.00	0.00	0.10	43.40
1974	1.10	5.56	1.67	7.60	0.26	6.54	1.48	0.00	0.00	0.00	0.00	0.00	24.21
1975	1.57	0.55	3.92	0.70	4.02	2.79	1.32	0.00	0.00	0.00	0.00	0.00	14.87
1976	1.58	0.20	0.18	0.00	3.60	1.67	0.62	0.00	0.05	0.00	1.41	3.20	12.51
1977	0.12	0.62	1.70	1.47	0.25	1.92	0.02	2.06	0.00	0.01	0.00	0.10	8.27
1978	0.02	0.49	6.69	6.70	9.24	5.97	3.83	0.00	0.05	0.00	0.00	1.31	34.30
1979	0.00	1.54	0.45	4.77	3.32	4.53	0.00	0.00	0.00	0.00	0.00	0.15	14.76
1980	1.20	0.60	2.32	6.77	6.46	2.90	0.78	0.51	0.00	0.23	0.00	0.00	21.77
1981	0.00	0.00	1.34	4.15	2.73	6.67	0.48	0.06	0.00	0.00	0.00	0.00	15.43
1982	0.72	2.33	2.47	3.42	1.75	7.17	3.28	0.00	0.10	0.00	0.20	0.58	22.02
1983	1.28	4.75	2.22	7.53	11.41	7.93	3.09	0.13	0.00	0.00	0.68	1.80	40.82
1984	0.30	3.71	5.62	0.15	0.58	1.13	0.40	0.00	0.00	0.07	0.01	0.20	12.17
1985	1.55	3.57	3.39	1.70	1.75	2.52	0.02	0.00	0.00	0.02	0.00	0.10	14.62
1986	0.45	3.91	1.12	1.98	6.64	6.31	0.00	0.37	0.00	0.10	0.00	2.62	23.50
1987	0.01	0.27	1.88	2.63	2.44	5.07	0.52	0.00	0.02	0.00	0.00	0.00	12.84
1988	2.37	1.25	3.89	1.84	3.48	0.20	3.32	0.11	0.21	0.00	0.00	0.00	16.67
1989	0.00	2.09	7.69	1.10	1.38	2.10	0.19	0.00	0.00	0.00	0.00	0.40	14.95
1990	0.90	0.40	0.00	2.03	2.00	0.31	0.35	0.90	0.06	0.00	0.00	1.15	8.10
1991	0.00	0.40	0.40	1.15	2.45	12.04	0.45	0.00	0.37	0.00	0.05	0.00	17.31
1992	0.55	0.74	3.91	3.05	9.78	3.29	0.05	0.00	0.00	0.75	0.00	0.00	22.12
1993	0.90	0.00	4.31	8.03	7.83	5.23	0.35	0.30	0.25	0.00	0.00	0.00	27.20
1994	0.80	2.62	1.58	2.72	4.09	1.60	2.65	0.90	0.00	0.00	0.00	1.10	18.06
1995	1.33	2.35	1.68	11.54	1.90	11.80	1.03	2.43	0.70	0.00	0.00	0.00	34.76
SUM	29.76	100.83	116.62	168.77	159.94	146.61	64.07	13.65	2.31	1.21	2.35	17.05	823.17
N	42	42	42	42	42	42	42	42	42	42	42	42	42
MEAN	0.71	2.40	2.78	4.02	3.81	3.49	1.53	0.33	0.06	0.03	0.06	0.41	19.60
MEAN for 1984-95 WATER YEARS	0.76	1.78	2.96	3.16	3.69	4.30	0.78	0.42	0.13	0.08	0.01	0.46	18.53
MAX	2.37	8.99	8.31	17.57	11.60	12.04	6.07	2.43	0.70	0.75	1.41	3.20	43.40
MIN	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.10
STD	0.73	2.27	2.29	3.45	3.33	3.04	1.67	0.60	0.13	0.12	0.24	0.74	8.77

PRECIPITATION IN INCHES

STATION NAME: WASTEWATER PLANT
 LOCATION: SAN LUIS OBISPO
 GAGE NO: 145.1
 ELEVATION: 130.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 31 SOUTH
 RANGE: 12 EAST
 SECTION: 3K

LONGITUDE: 35-15-16
 LATITUDE: 120-41-24
 RECORD BEGAN: 1955

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1955	0.00	3.09	2.37	5.06	1.82	0.11	1.10	0.48	0.00	0.00	0.00	0.00	14.03
1956	0.00	2.16	12.44	8.64	0.09	0.00	2.28	1.72	0.00	0.00	0.00	0.00	27.33
1957	0.81	0.00	0.70	4.80	4.56	0.47	2.50	2.01	0.10	0.00	0.00	0.00	15.95
1958	1.97	0.08	4.07	4.81	8.16	10.12	4.35	0.20	0.00	0.00	0.00	0.98	34.74
1959	0.00	0.45	0.22	3.66	5.77	0.00	0.65	0.05	0.00	0.00	0.00	0.65	11.45
1960	0.00	0.00	0.65	5.00	8.89	1.25	2.80	0.00	0.00	0.01	0.00	0.00	18.60
1961	0.20	4.38	1.72	2.61	0.00	1.36	0.00	0.00	0.00	0.00	0.00	0.00	10.27
1962	0.00	4.67	1.87	4.80	14.52	2.61	0.15	0.00	0.00	0.00	0.00	0.00	28.62
1963	1.25	0.00	2.92	3.93	5.13	5.73	4.95	0.33	0.03	0.00	0.00	0.14	24.41
1964	1.86	4.16	0.15	2.15	0.08	3.63	0.00	0.75	0.30	0.00	0.00	0.00	13.08
1965	1.58	3.73	6.42	4.70	0.70	2.61	4.30	0.00	0.00	0.00	0.00	0.00	24.04
1966	0.00	9.43	3.86	2.44	0.70	0.20	0.00	0.00	0.00	0.00	0.00	1.10	17.73
1967	0.00	4.92	10.12	7.52	0.51	8.75	6.64	0.20	0.13	0.00	0.00	0.73	39.52
1968	0.00	8.20	2.76	2.77	1.55	3.15	1.47	0.03	0.00	0.00	0.00	0.00	19.93
1969	1.15	2.03	4.07	22.16	12.36	0.60	2.95	0.00	0.00	0.00	0.00	0.00	45.32
1970	0.37	0.85	1.32	6.33	2.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.59
1971	0.00	5.58	6.82	1.98	0.37	0.07	1.30	0.77	0.00	0.00	0.00	0.05	16.94
1972	0.00	1.54	5.62	1.06	0.70	0.00	1.30	0.07	0.00	0.00	0.00	0.00	10.29
1973	2.62	5.04	1.25	11.50	7.61	4.01	0.00	0.00	0.00	0.00	0.00	0.05	32.08
1974	1.46	5.41	3.18	6.96	0.25	8.08	1.84	0.00	0.00	0.00	0.00	0.00	27.18
1975	1.19	0.75	3.75	0.30	6.53	5.00	1.39	0.00	0.00	0.00	0.00	0.04	18.95
1976	0.30	0.30	0.16	0.07	5.35	1.61	0.69	0.00	0.05	0.00	0.99	3.12	12.64
1977	0.07	1.15	2.12	1.81	0.09	1.97	0.05	2.98	0.00	0.00	0.00	0.00	10.24
1978	0.08	0.26	9.34	9.66	12.91	6.47	4.67	0.00	0.00	0.00	0.00	1.16	44.55
1979	0.00	2.34	1.57	3.72	5.30	3.27	0.25	0.08	0.00	0.00	0.00	0.03	16.56
1980	0.60	0.90	5.15	9.08	9.55	2.12	0.81	0.38	0.00	0.34	0.00	0.00	28.93
1981	0.00	0.04	2.92	6.43	2.24	8.49	0.25	0.00	0.00	0.00	0.00	0.00	20.37
1982	1.92	2.52	1.09	5.57	1.41	7.38	8.39	0.00	0.10	0.00	0.16	0.75	29.29
1983	1.59	5.47	4.90	10.40	12.91	7.42	3.82	0.00	0.00	0.00	0.00	0.00	46.51
1984													
1985	1.14	4.79	3.71	1.08	2.58	3.18	0.35	0.00	0.00	0.00	0.00	0.00	16.83
1986	1.00	4.23	2.35	2.68	11.92	8.60	0.18	0.00	0.02	0.00	0.00	0.78	31.76
1987	0.00	0.37	1.53	3.15	3.08	4.47	0.35	0.05	0.00	0.00	0.00	0.00	13.00
1988													
1989	0.00	2.42	6.97	1.02	1.90	1.77	0.58	0.00	0.00	0.00	0.00	1.74	16.40
1990	1.25	0.80	0.03	2.47	2.71	0.41	0.10	1.17	0.00	0.00	0.00	0.53	9.47
1991	0.00	0.21	0.66	0.64	2.98	12.52	0.79	0.00	0.50	0.00	0.00	0.00	18.30
1992	0.50	0.33	2.43	2.63	8.31	0.00	0.00	0.00	0.00				
SUM	22.91	92.60	121.21	173.59	166.26	127.43	61.25	11.27	1.23	0.35	1.15	11.85	776.90
N	36	36	36	36	36	36	36	36	36	35	35	35	35
MEAN	0.64	2.57	3.37	4.82	4.62	3.54	1.70	0.31	0.03	0.01	0.03	0.34	22.20
MAX	2.62	9.43	12.44	22.16	14.52	12.52	8.39	2.98	0.50	0.34	0.99	3.12	46.51
MIN	0.00	0.00	0.03	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.47
STD	0.75	2.44	2.91	4.13	4.32	3.40	2.05	0.66	0.10	0.06	0.17	0.65	10.47

PRECIPITATION IN INCHES

STATION NAME: BATES PLUMBING
 LOCATION: ARROYO GRANDE
 GAGE NO: 147.0
 ELEVATION: 28.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 32 SOUTH
 RANGE: 13 EAST
 SECTION: 30F

LONGITUDE: 35-06-52
 LATITUDE: 120-37-29
 RECORD BEGAN: 1956

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1956	0.00	2.66	7.08	4.32	0.94	0.00	1.98	0.66	0.00	0.00	0.00	0.00	17.64
1957	0.57	0.00	0.62	3.18	2.35	1.32	1.76	1.26	0.26	0.00	0.00	0.09	11.41
1958	1.61	0.70	3.01	3.43	5.03	6.62	5.17	0.21	0.00	0.00	0.00	1.23	27.01
1959	0.00	0.00	0.71	3.41	4.31	0.00	0.48	0.00	0.00	0.00	0.00	0.69	9.60
1960	0.00	0.00	0.73	4.29	5.59	1.23	3.09	0.00	0.00	0.00	0.00	0.00	14.93
1961	0.68	5.16	1.52	1.26	0.39	1.39	0.39	0.13	0.00	0.00	0.00	0.00	10.92
1962	0.00	2.03	1.49	3.67	10.17	1.66	0.09	0.00	0.00	0.00	0.00	0.00	19.11
1963	0.79	0.00	1.17	0.89	4.46	3.71	3.69	0.31	0.04	0.00	0.00	0.39	15.45
1964	2.19	2.66	0.22	1.84	0.05	1.87	1.01	0.61	0.21	0.00	0.00	0.23	10.89
1965	1.76	2.45	3.09	2.27	0.26	1.89	3.05	0.00	0.00	0.00	0.00	0.00	14.77
1966	0.06	6.40	3.23	1.83	1.19	0.18	0.09	0.00	0.00	0.15	0.00	0.80	13.93
1967	1.64	2.44	3.54	3.56	0.63	3.66	5.20	0.27	0.13	0.00	0.00	0.83	21.90
1968	0.00	3.74	1.77	0.97	1.37	2.83	0.93	0.09	0.00	0.00	0.00	0.00	11.70
1969	2.97	1.89	2.78	10.10	7.53	1.20	2.35	0.06	0.06	0.11	0.00	0.16	29.21
1970	0.00	1.72	1.32	3.78	1.33	2.86	0.09	0.00	0.00	0.00	0.00	0.00	11.10
1971	0.00	4.91	4.45	1.86	0.15	0.70	0.97	1.25	0.00	0.00	0.00	0.08	14.37
1972	0.30	1.33	4.96	0.58	0.38	0.00	0.73	0.00	0.00	0.07	0.00	0.06	8.41
1973	1.56	4.95	1.69	6.24	5.49	4.00	0.00	0.00	0.10	0.00	0.00	0.09	24.12
1974	0.76	3.03	2.97	7.04	0.19	5.85	1.66	0.00	0.00	0.09	0.00	0.00	21.59
1975	1.48	0.58	3.39	0.25	3.55	2.58	1.09	0.02	0.00	0.00	0.00	0.00	12.94
1976	1.18	0.23	0.13	0.00	3.74	1.61	0.67	0.00	0.00	0.00	1.11	3.13	11.80
1977	0.25	0.84	1.54	0.97	0.11	1.82	0.06	2.34	0.00	0.00	0.04	0.08	8.05
1978	0.08	0.27	6.56	6.50	6.51	6.65	4.77	0.00	0.00	0.00	0.00	0.04	31.38
1979	0.00	1.91	1.49	5.58	4.39	3.24	0.38	0.05	0.00	0.00	0.00	0.07	17.11
1980	0.80	0.31	2.33	6.41	6.11	2.48	0.70	0.35	0.00	0.26	0.00	0.00	19.75
1981	0.00	0.04	1.22	3.59	2.66	7.58	0.33	0.00	0.00	0.00	0.00	0.00	15.42
1982	0.73	1.65	1.30	3.01	1.27	5.58	3.83	0.00	0.10	0.00	0.05	0.38	17.90
1983	1.26	2.90	1.77	6.51	7.95	7.01	1.76	0.66	0.00	0.00	0.29	0.00	30.11
1984	2.10	2.30	4.98	0.00	0.46	0.62	0.61	0.00	0.00	0.00	0.06	0.00	11.13
1985	0.66	2.87	2.56	0.91	0.95	1.29	0.00	0.00	0.00	0.00	0.00	0.07	9.31
1986	0.37	3.35	1.01	1.47	5.60	5.14	0.06	0.00	0.00	0.01	0.00	0.96	17.97
1987	0.00	0.35	1.38	2.17	1.83	5.10	0.26	0.00	0.06	0.00	0.00	0.00	11.15
1988	2.06	0.87	3.52	1.38	2.77	0.13	2.59	0.12	0.00	0.00	0.00	0.00	13.44
1989	0.00	1.22	6.25	0.72	0.83	1.25	0.19	0.09	0.00	0.00	0.00	1.40	11.95
1990	0.57	0.35	0.00	2.26	1.77	0.30	0.29	0.78	0.04	0.00	0.00	0.67	7.03
1991	0.22	0.00	0.43	0.98	2.38	10.58	0.35	0.00	0.13	0.00	0.06	0.00	15.13
1992	0.38	0.73	3.49	2.81	9.00	2.61	0.03	0.00	0.00	0.45	0.00	0.00	19.50
1993	0.43	0.00	3.94	6.88	6.17	4.89	0.09	0.19	0.09	0.00	0.00	0.00	22.68
1994	0.39	2.16	1.14	2.39	3.65	1.55	1.18	0.70	0.00	0.00	0.02	0.87	14.05
1995	1.02	1.84	1.20	10.87	1.50	10.19	0.79	2.41	0.63	0.00	0.00	0.00	30.45
SUM	28.87	70.84	95.98	130.18	125.01	123.17	52.76	12.56	1.85	1.14	1.63	12.32	656.31
N	40	40	40	40	40	40	40	40	40	40	40	40	40
MEAN	0.72	1.77	2.40	3.25	3.13	3.08	1.32	0.31	0.05	0.03	0.04	0.31	16.41
MEAN for 1984-95 WATER YEARS	0.68	1.34	2.49	2.74	3.08	3.64	0.54	0.36	0.08	0.04	0.01	0.33	15.32
MAX	2.97	6.40	7.08	10.87	10.17	10.58	5.20	2.41	0.63	0.45	1.11	3.13	31.38
MIN	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.03
STD	0.76	1.62	1.77	2.61	2.70	2.70	1.48	0.58	0.11	0.08	0.18	0.59	6.47

PRECIPITATION IN INCHES

STATION NAME: NIPOMO CDF
 LOCATION: NIPOMO
 GAGE NO: 151.1
 ELEVATION: 335.0 FEET

BASE & MERIDIAN: SAN BERNARDINO
 TOWNSHIP: 11 NORTH
 RANGE: 34 WEST
 SECTION: 8N

LONGITUDE: 35-02-26
 LATITUDE: 120-29-10
 RECORD BEGAN: 1959

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1959	0.00	0.00	0.50	2.58	4.85	0.01	0.00	0.00	0.00	0.00	0.00	0.00	7.94
1960	0.00	0.00	0.11	3.74	6.11	1.26	3.14	0.03	0.00	0.00	0.00	0.00	14.39
1961	0.00	1.10	1.58	1.20	0.16	1.32	0.32	0.00	0.00	0.00	0.00	0.00	5.68
1962	0.00	0.00	1.83	3.86	11.73	1.44	0.06	0.00	0.00	0.00	0.00	0.00	18.92
1963	0.00	0.00	0.00	1.45	3.41	3.90	3.06	0.00	0.00	0.00	0.00	0.30	12.12
1964	1.90	3.45	0.25	1.75	0.10	2.43	0.57	0.36	0.00	0.04	0.00	0.21	11.06
1965	1.80	2.35	2.54	2.15	0.76	1.63	0.78	0.00	0.00	0.00	0.00	0.00	12.01
1966	0.02	6.16	3.19	1.05	0.59	0.00	0.11	0.00	0.00	0.00	0.00	0.05	11.17
1967	0.00	2.45	3.16	3.12	0.43	3.04	3.63	0.34	0.03	0.00	0.00	0.02	16.22
1968	0.00	2.89	1.66	1.06	1.33	2.72	0.63	0.00	0.00	0.00	0.00	0.00	10.29
1969	2.44	0.88	2.33	11.08	7.67	0.56	1.88	0.02	0.00	0.14	0.00	0.03	27.03
1970	0.35	0.89	0.85	4.08	3.27	1.90	0.04	0.00	0.00	0.00	0.00	0.00	11.38
1971	0.21	4.48	4.45	1.35	0.14	0.58	0.80	0.99	0.00	0.00	0.00	0.18	13.18
1972	0.27	1.23	2.93	0.54	0.56	0.00	0.53	0.00	0.00	0.00	0.00	0.01	6.07
1973	0.83	4.31	2.20	5.85	5.24	3.54	0.03	0.00	0.00	0.00	0.00	0.00	22.00
1974	0.99	2.73	2.56	5.80	5.35	1.66	0.00	0.00	0.00	0.00	0.00	0.00	19.09
1975	1.16	0.46	4.97	0.18	4.44	4.06	2.02	0.00	0.00	0.00	0.00	0.00	17.29
1976	1.23	0.21	0.15	0.00	3.71	2.18	0.96	0.00	0.06	0.00	1.28	3.67	13.45
1977	1.62	1.22	1.57	1.65	0.09	1.61	0.04	2.35	0.00	0.00	0.00	0.08	10.23
1978	0.01	0.26	5.44	6.60	7.68	5.97	3.25	0.00	0.00	0.00	0.00	1.45	30.66
1979	0.00	1.11	1.19	4.03	4.54	4.36	0.35	0.04	0.00	0.00	0.00	0.18	15.80
1980	1.13	0.58	1.22	4.75	5.31	2.10	0.99	0.44	0.00	0.05	0.00	0.00	16.57
1981	0.00	0.00	1.70	3.55	2.65	5.14	0.35	0.00	0.00	0.00	0.00	0.00	13.39
1982	0.98	2.24	1.97	3.08	1.11	4.66	3.93	0.00	0.01	0.00	0.05	0.55	18.58
1983	1.27	4.17	2.13	6.30	9.18	6.80	2.50	0.23	0.00	0.00	0.49	0.14	33.21
1984	2.00	3.31	3.09	0.09	0.50	0.84	0.84	0.55	0.00	0.00	0.00	0.00	11.22
1985	1.04	2.25	2.82	1.09	2.15	2.02	0.76	0.00	0.00	0.00	0.00	0.07	12.20
1986	0.10	2.39	0.55	1.73	4.64	5.44	0.68	0.00	0.00	0.05	0.00	1.27	16.85
1987	0.00	0.23	1.66	2.12	2.52	4.41	0.27	0.04	0.04	0.00	0.00	0.00	11.29
1988	1.97	0.94	2.51	1.99	2.17	0.25	2.67	0.14	0.02	0.00	0.00	0.00	12.66
1989	0.00	1.38	6.10	0.49	1.31	1.44	0.41	0.18	0.00	0.00	0.00	0.91	12.22
1990	0.56	0.48	0.06	2.24	1.61	0.46	0.32	0.86	0.00	0.00	0.00	0.53	7.12
1991	0.00	0.33	0.39	0.03	1.31	10.77	0.23	0.00	0.00	0.00	0.00	0.00	13.06
1992	0.41	0.40	3.85	2.11	6.62	1.70	0.00	0.00	0.00	0.57	0.00	0.00	15.66
1993	1.11	0.00	2.98	6.46	4.51	4.81	0.10	0.00	0.20	0.00	0.00	0.00	20.17
1994	0.20	1.10	1.25	2.80	3.52	1.34	0.90	0.66	0.00	0.00	0.00	0.38	12.15
1995	0.63	1.59	0.52	11.35	1.03	8.64	0.54	0.57	0.60	0.00	0.00	0.00	25.47
SUM	24.23	57.57	76.26	113.30	122.30	104.99	37.69	7.80	0.96	0.85	1.82	10.03	557.80
N	37	37	37	37	37	37	37	37	37	37	37	37	37
MEAN	0.65	1.56	2.06	3.06	3.31	2.84	1.02	0.21	0.03	0.02	0.05	0.27	15.08
MEAN for 1984-95 WATER YEARS													
	0.67	1.20	2.15	2.71	2.66	3.51	0.64	0.25	0.07	0.05	0.00	0.26	14.17
MAX	2.44	6.16	6.10	11.35	11.73	10.77	3.93	2.35	0.60	0.57	1.28	3.67	33.21
MIN	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.68
STD	0.72	1.52	1.52	2.70	2.80	2.43	1.15	0.44	0.10	0.09	0.22	0.66	6.19

PRECIPITATION IN INCHES

STATION NAME: BETTENCOURT
 LOCATION: LOPEZ CANYON
 GAGE NO: 153.0
 ELEVATION: 745.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 31 SOUTH
 RANGE: 14 EAST
 SECTION: 5F

LONGITUDE: 35-15-15
 LATITUDE: 120-29-56
 RECORD BEGAN: 1960

WATER YEAR													WATER YEAR TOTAL	
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1960	0.00	6.45	0.57	7.97	10.49	2.94	3.41	0.00	0.00	0.00	0.00	0.00	0.00	31.83
1961	0.83	6.47	4.09	3.71	0.34	2.43	2.70	0.00	0.00	0.00	0.00	0.00	0.00	20.57
1962	0.00	11.00	4.05	6.97	20.08	3.89	0.50	0.00	0.00	0.00	0.00	0.00	0.00	46.49
1963	2.40	0.00	1.46	0.00	6.40	4.79	5.16	0.93	0.16	0.00	0.00	0.32	0.00	21.62
1964	1.94	6.92	0.34	3.78	0.05	5.58	0.36	1.13	0.64	0.00	0.18	0.00	0.00	20.92
1965	1.87	6.70	7.16	8.18	1.21	4.50	5.44	0.00	0.00	0.00	0.00	0.00	0.00	35.06
1966	0.00	13.25	5.92	1.91	1.53	0.36	0.20	0.00	0.00	0.08	0.00	1.70	0.00	24.95
1967	0.00	6.73	20.46	9.72	1.20	10.69	10.54	0.42	0.20	0.00	0.00	1.35	0.00	61.31
1968	0.00	4.05	3.83	3.43	1.19	5.39	2.24	0.22	0.00	0.00	0.00	0.00	0.00	20.35
1969	3.79	3.52	6.43	37.15	12.00	2.26	1.60	0.00	0.00	0.00	0.00	0.16	0.00	66.91
1970	1.08	1.48	2.37	9.94	6.85	0.11	0.15	0.00	0.10	0.00	0.00	0.00	0.00	22.08
1971	0.51	11.37	9.35	3.74	0.16	2.22	2.04	1.90	0.00	0.00	0.00	0.13	0.00	31.42
1972	0.35	2.93	9.63	1.64	1.51	0.00	1.50	0.30	0.20	0.01	0.00	0.06	0.00	18.13
1973	3.47	8.73	3.89	12.30	13.80	6.99	0.05	0.00	0.00	0.00	0.00	0.00	0.00	49.23
1974	2.79	9.86	2.07	10.84	0.45	9.77	2.28	0.00	0.00	0.00	0.00	0.00	0.00	38.06
1975	2.00	1.65	5.88	0.05	9.35	6.93	3.53	0.00	0.00	0.00	0.00	0.00	0.00	29.39
1976	3.92	0.35	0.44	0.00	5.46	4.80	1.61	0.00	0.08	0.00	2.19	3.78	0.00	22.63
1977	0.36	0.88	3.30	2.87	0.46	2.19	0.00	3.56	0.00	0.00	0.00	0.00	0.00	13.62
1978	0.10	1.09	13.19	15.00	13.49	12.13	7.73	0.10	0.00	0.00	0.00	0.40	0.00	63.23
1979	0.00	1.45	3.20	5.89	9.95	7.45	0.50	0.00	0.00					
1980										0.00	0.00	0.00		
1981	0.00	0.00	2.73	9.60	2.57	11.60	1.25	0.00	0.00	0.00	0.00	0.00	0.00	27.75
1982	1.85	3.45	3.90	8.39	2.16	11.81	13.61	0.00	0.00	0.00	0.10	0.60	0.00	45.87
1983	3.02	14.51	8.50	12.43	14.65	11.01	5.42	0.35	0.00	0.00	0.94	0.20	0.00	71.03
1984	3.05	9.18	10.00	0.20	1.04	2.47	0.86	0.00	0.00	0.00	0.00	0.00	0.00	26.80
1985	2.72	5.69	4.09	1.40	3.96	6.34	1.10	0.00	0.00	0.00	0.00	0.00	0.00	25.30
1986	0.00	2.10	7.85	3.49	25.07	10.15	0.17	0.00	0.00	0.00	0.00	1.85	0.00	50.68
1987	0.00	0.45	1.20	4.50	4.40	6.25	0.57	0.00	0.00					
SUM	36.05	140.26	145.90	185.10	169.82	155.05	74.52	8.91	1.38	0.09	3.41	10.55	885.23	
N	27	27	27	27	27	27	27	27	27	26	26	26	25	
MEAN	1.34	5.19	5.40	6.86	6.29	5.74	2.76	0.33	0.05	0.00	0.13	0.41	35.41	
MAX	3.92	14.51	20.46	37.15	25.07	12.13	13.61	3.56	0.64	0.08	2.19	3.78	71.03	
MIN	0.00	0.00	0.34	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.62	
STD	1.36	4.23	4.38	7.28	6.57	3.72	3.30	0.77	0.13	0.02	0.45	0.85	16.42	

PRECIPITATION IN INCHES

STATION NAME: CSA NO 13
 LOCATION: OCEANO
 GAGE NO: 157.1
 ELEVATION: 80.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 32 SOUTH
 RANGE: 13 EAST
 SECTION: 32D

LONGITUDE: 35-06-16
 LATITUDE: 120-36-35
 RECORD BEGAN: 1960

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1960	0.00	0.00	0.00	4.08	5.42	1.03	2.56	0.00	0.00	0.00	0.00	0.00	13.09
1961	0.51	5.78	1.29	1.08	0.34	0.94	0.29	0.08	0.00	0.00	0.03	0.00	10.34
1962	0.00	1.70	1.46	3.57	9.49	1.16	0.05	0.08	0.00	0.00	0.00	0.00	17.51
1963	0.60	0.00	1.15	0.71	4.20	3.46	3.25	0.21	0.00	0.00	0.00	0.35	13.93
1964	1.98	2.38	0.30	1.70	0.00	1.82	1.05	0.61	0.30	0.00	0.00	0.20	10.34
1965	1.97	2.07	3.25	2.11	0.29	1.79	3.45	0.00	0.00	0.00	0.00	0.00	14.93
1966	0.00	6.38	3.43	1.99	1.14	0.15	0.06	0.00	0.00	0.00	0.00	1.55	14.70
1967	0.00	3.06	4.58	3.56	0.59	4.34	4.85	0.32	0.03	0.00	0.00	0.34	21.67
1968	0.00	3.94	1.81	0.81	1.22	1.33	0.81	0.00	0.00	0.00	0.00	0.00	9.92
1969	2.77	1.63	2.67	13.15	9.17	0.89	1.80	0.00	0.00	0.10	0.00	0.00	32.18
1970	0.45	1.20	1.33	3.76	1.09	2.87	0.04	0.00	0.00	0.00	0.00	0.00	10.74
1971	0.11	3.90	4.43	1.85	0.11	0.55	0.91	1.06	0.00	0.00	0.00	0.10	13.02
1972	0.14	1.25	4.71	0.57	0.59	0.00	0.54	0.00	0.00	0.00	0.00	0.04	7.84
1973	1.36	5.03	1.70	6.14	5.11	3.64	0.00	0.01	0.00	0.00	0.00	0.07	23.06
1974	0.70	3.85	1.32	6.41	0.16	6.04	1.42	0.00	0.00	0.03	0.00	0.00	19.93
1975	1.59	0.42	2.68	0.46	3.29	2.65	1.06	0.04	0.00	0.00	0.00	0.03	12.22
1976	1.38	0.12	0.15	0.00	4.43	0.98	0.59	0.00	0.03	0.00	1.10	3.22	12.00
1977	0.00	0.72	1.39	0.81	0.13	1.52	0.14	1.94	0.00	0.00	0.00	0.02	6.67
1978	0.00	0.33	7.25	6.34	7.25	6.37	4.75	0.00	0.00	0.00	0.00	1.29	33.58
1979	0.00	2.02	1.03	3.67	4.55	2.65	0.38	0.05	0.00	0.00	0.00	0.13	14.48
1980	0.83	0.56	2.27	5.82	5.73	1.79	0.44	0.33	0.00	0.20	0.00	0.00	17.97
1981	0.00	0.00	2.20	2.99	1.73	7.70	0.45	0.00	0.00	0.00	0.00	0.00	15.07
1982	0.84	1.13	1.29	3.08	1.34	5.49	4.52	0.00	0.14	0.00	0.00	0.06	17.89
1983	1.26	2.49	1.55	6.08	8.10	6.31	2.16	0.29	0.00	0.00	0.49	0.00	28.73
1984	2.36	2.44	4.07	0.00	0.30	0.62	0.24	0.00	0.00	0.00	0.00	0.00	10.03
1985	0.63	2.42	2.87	1.08	1.10	1.31	0.10	0.00	0.00	0.00	0.12	0.30	9.93
1986	0.25	3.79	1.00	1.34	5.46	5.59	0.30	0.00	0.00	0.10	0.00	1.10	18.93
1987	0.00	0.40	1.62	2.13	2.38	4.97	0.30	0.10	0.00	0.00	0.00	0.00	11.90
1988	1.93	1.14	3.40	1.60	2.63	0.70	3.15	0.10	0.07	0.00	0.00	0.00	14.72
1989	0.00	1.44	5.11	0.90	0.90	1.55	0.37	0.12	0.00	0.00	0.00	1.30	11.69
1990	0.70	0.40	0.00	2.15	1.48	0.10	0.36	0.95	0.00	0.00	0.00	0.60	6.74
1991	0.00	0.22	0.30	0.82	2.02	9.88	0.38	0.00	0.13	0.00	0.00	0.00	13.75
1992	0.50	0.60	3.19	2.10	8.18	2.86	0.04	0.00	0.00	0.67	0.00	0.00	18.14
1993	0.58	0.00	3.82	5.89	5.93	3.86	0.10	0.23	0.00	0.00	0.00	0.00	20.41
1994	0.39	1.85	1.18	2.35	3.36	1.48	1.10	0.63	0.00	0.00	0.08	0.74	13.16
1995	1.28	1.48	1.08	10.47	1.40	9.57	0.88	2.37	0.64	0.00	0.00	0.00	29.17
SUM	25.11	66.14	80.88	111.57	110.61	107.96	42.89	9.52	1.34	1.10	1.82	11.44	570.38
N	36	36	36	36	36	36	36	36	36	36	36	36	36
MEAN	0.70	1.84	2.25	3.10	3.07	3.00	1.19	0.26	0.04	0.03	0.05	0.32	15.84
MEAN for 1984-95 WATER YEARS													
	0.72	1.35	2.30	2.57	2.93	3.54	0.61	0.38	0.07	0.06	0.02	0.34	14.88
MAX	2.77	6.38	7.25	13.15	9.49	9.88	4.85	2.37	0.64	0.67	1.10	3.22	33.58
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.67
STD	0.77	1.67	1.63	2.86	2.82	2.60	1.41	0.53	0.12	0.12	0.20	0.65	6.65

PRECIPITATION IN INCHES

STATION NAME: PENNY RANCH
 LOCATION: NIPOMO 4.5 N
 GAGE NO: 175.1
 ELEVATION: 520.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 32 SOUTH
 RANGE: 14 EAST
 SECTION: 33C

LONGITUDE: 35-06-11
 LATITUDE: 120-28-56
 RECORD BEGAN: 1966

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1966	0.00	1.19	4.20	1.98	1.68	0.00	0.20	0.00	0.00	0.15	0.00	1.12	10.52
1967	0.00	5.20	12.95	6.72	0.75	0.12	7.36	0.00	0.00	0.00	0.00	0.55	33.65
1968	0.00	2.65	2.20	1.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.70
1969	3.05	1.97	2.37	4.30	12.35	1.10	3.10	0.00	0.00				
1970													
1971													
1972													
1973													
1974													
1975													
1976													
1977										0.00	0.00	1.53	
1978	0.00	2.25	1.20	11.00	10.17	8.05	5.25	0.00	0.00				
1979										0.00	0.00	0.25	
1980	1.65	1.15	2.30	8.25	7.25	0.00	0.50	0.00	0.00				
1981										0.00	0.00	0.00	
1982	1.25	3.93	2.25	4.60	1.85	6.10	2.45	0.05	0.15	0.00	0.00	0.72	23.35
1983	1.90	5.20	3.40	6.30	9.09	8.50	2.80	0.10	0.00	0.00	0.50	0.43	38.22
1984	2.50	5.27	3.03	0.15	0.40	1.10	0.65	0.00	0.00	0.00	0.00	0.00	13.10
1985	1.55	3.50	2.55	1.30	2.45	2.30	0.05	0.00	0.00	0.01	0.00	0.00	13.71
1986	0.50	2.35	1.30	2.35	7.50	7.25	0.90	0.00	0.00				
1987										0.00	0.00	0.00	
1988	2.86	1.27	3.77	2.48	2.62	0.84	4.07	0.16	0.00	0.00	0.00	0.00	18.07
1989	0.00	2.67	7.58	1.04	1.59	2.60	0.44	0.05	0.00	0.00	0.00	1.11	17.08
1990	1.25	0.60	0.01	3.36	2.87	0.55	0.27	1.25	0.00	0.00	0.00	1.02	11.18
1991	0.00	0.40	0.85	1.24	2.27	14.63	0.31	0.00	0.26	0.00	0.00	0.00	19.96
1992	0.00	0.00	5.29	2.97	9.40	3.62	0.00	0.00	0.00	1.15	0.00	0.00	22.43
1993													
1994	0.30	0.00	5.10	8.73	7.93	4.72	0.00	0.00	0.00				
SUM	16.81	39.60	60.35	68.62	80.17	61.48	28.35	1.61	0.41	1.31	0.50	6.73	227.97
N	17	17	17	17	17	17	17	17	17	16	16	16	12
MEAN	0.99	2.33	3.55	4.04	4.72	3.62	1.67	0.09	0.02	0.08	0.03	0.42	19.00
MAX	3.05	5.27	12.95	11.00	12.35	14.63	7.36	1.25	0.26	1.15	0.50	1.53	38.22
MIN	0.00	0.00	0.01	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.70
STD	1.07	1.73	2.96	3.03	3.88	3.98	2.12	0.29	0.07	0.28	0.12	0.51	8.98

PRECIPITATION IN INCHES

STATION NAME: CORPORATE YARD
 LOCATION: ARROYO GRANDE
 GAGE NO: 177.1
 ELEVATION: 85.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 32 SOUTH
 RANGE: 13 EAST
 SECTION: 29F

LONGITUDE: 35-06-47
 LATITUDE: 120-36-25
 RECORD BEGAN: 1967

WATER YEAR													WATER YEAR
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1967	0.08	2.73	2.36	2.67	1.20	3.29	3.63	0.25	0.00	0.00	0.00	0.25	16.46
1968	0.00	2.06	1.35	0.44	0.92	2.23	0.80	0.00	0.00	0.00	0.00	0.00	7.80
1969	2.40	1.80	2.60	10.05	6.55	0.97	1.73	0.00	0.00	0.00	0.00	0.00	26.10
1970	0.65	1.00	1.10	3.14	2.30	1.32	0.00	0.00	0.00	0.00	0.00	0.00	9.51
1971	0.20	4.30	4.20	1.20	0.00	1.89	1.04	0.25	0.00	0.00	0.00	0.00	13.08
1972	0.15	1.40	4.00	0.50	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.05	6.55
1973	1.40	4.55	1.55	6.20	4.96	3.57	0.00	0.00	0.00	0.00	0.00	0.09	22.32
1974	0.80	4.05	2.90	6.15	0.00	6.25	0.95	0.00	0.00	0.00	0.00	0.00	21.10
1975	1.39	0.47	3.70	0.02	4.00	2.23	1.15	0.00	0.00	0.00	0.00	0.02	12.98
1976	1.10	0.15	0.17	0.10	3.34	1.17	0.65	0.00	0.05	0.00	1.15	2.90	10.78
1977	0.00	0.70	1.45	0.69	0.15	1.86	0.00	2.15	0.00	0.00	0.00	0.06	7.06
1978	0.03	0.24	5.92	6.63	7.54	4.42	4.78	0.00	0.00	0.00	0.00	1.27	30.83
1979	0.00	2.28	1.26	4.30	4.71	3.02	0.40	0.00	0.00	0.00	0.00	0.11	16.08
1980	0.86	0.61	1.66	5.48	5.53	2.21	0.57	0.32	0.00	0.12	0.00	0.12	17.48
1981	0.00	0.00	1.70	3.27	2.15	7.56	0.04	0.00	0.00				
1982													
1983													
1984													
1985													
1986													
1987													
1988													
1989													
1990													
1991										0.00	0.00	0.00	0.00
1992	0.40	0.52	2.83	2.33	8.18	1.81	0.00	0.00	0.00	0.57	0.00	0.00	16.64
1993	0.10	0.50	3.82	5.40	6.16	4.44	0.11	0.25	0.05	0.00	0.00	0.00	20.83
1994	0.37	2.00	1.21	2.44	3.54	1.61	1.20	0.75	0.00	0.00	0.00	0.56	13.68
1995	1.35	1.93	1.13	10.33	1.45	7.40	0.00	0.00	0.00	0.00	0.00	0.00	23.59
SUM	11.28	31.29	44.91	71.34	63.13	57.25	17.05	3.97	0.10	0.69	1.15	5.43	292.87
N	19	19	19	19	19	19	19	19	19	19	19	19	19
MEAN	0.59	1.65	2.36	3.75	3.32	3.01	0.90	0.21	0.01	0.04	0.06	0.29	15.41
MAX	2.40	4.55	5.92	10.33	8.18	7.56	4.78	2.15	0.05	0.57	1.15	2.90	30.83
MIN	0.00	0.00	0.17	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
STD	0.66	1.39	1.40	3.07	2.58	2.08	1.26	0.49	0.02	0.13	0.26	0.68	7.43

PRECIPITATION IN INCHES

STATION NAME: LOPEZ DAM
 LOCATION: LOPEZ RESERVOIR
 GAGE NO: 178.1
 ELEVATION: 547.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 31 SOUTH
 RANGE: 14 EAST
 SECTION: 33E

LONGITUDE: 35-11-12
 LATITUDE: 120-29-03
 RECORD BEGAN: 1968

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1968	0.00	3.12	2.73	1.38	1.25	2.94	1.62	0.22	0.00	0.00	0.00	0.00	13.26
1969	2.85	1.92	3.41	18.39	9.93	1.10	2.57	0.00	0.08	0.00	0.00	0.10	40.35
1970	0.83	0.75	1.27	5.97	1.91	3.01	0.00	0.00	0.00	0.00	0.00	0.00	13.74
1971	0.25	5.89	5.49	1.80	0.13	1.13	1.10	0.86	0.00	0.00	0.00	0.05	16.70
1972	0.18	1.42	5.72	0.47	0.65	0.00	0.60	0.51	0.00	0.00	0.00	0.03	9.58
1973	1.42	4.89	1.85	6.63	7.69	4.23	0.00	0.00	0.02	0.00	0.00	0.10	26.83
1974	0.64	4.39	4.04	7.16	0.20	7.00	2.03	0.00	0.00	0.00	0.00	0.00	25.46
1975	1.60	0.91	4.64	0.16	4.20	4.61	1.43	0.00	0.00	0.00	0.00	0.00	17.55
1976	1.60	0.32	0.11	0.00	4.19	2.07	0.94	0.00	0.00	0.00	0.70	4.18	14.11
1977	0.70	0.78	1.35	0.95	0.05	1.35	0.00	2.29	0.00	0.00	0.00	0.05	7.52
1978	0.03	0.63	7.93	8.22	7.49	6.21	3.96	0.00	0.03	0.00	0.00	1.25	35.75
1979	0.00	1.82	1.52	4.23	4.19	4.75	0.40	0.00	0.00	0.00	0.00	0.08	16.99
1980	1.17	0.72	2.02	7.82	7.89	2.50	0.78	0.47	0.00	0.10	0.00	0.00	23.47
1981	0.00	0.00	1.15	4.88	1.00	7.30	0.45	0.00	0.00	0.00	0.00	0.00	14.78
1982	0.65	2.10	1.70	3.85	1.70	7.08	5.32	0.00	0.08	0.00	0.79	0.60	23.87
1983	1.55	6.60	2.90	7.09	8.64	8.37	2.62	0.18	0.00	0.00	0.70	0.00	38.65
1984	3.00	4.95	5.14	0.05	0.50	0.85	0.55	0.00	0.00	0.00	0.00	0.00	15.04
1985	1.10	3.24	2.70	0.87	2.02	2.46	0.07	0.00	0.00	0.00	0.05	0.07	12.58
1986	0.50	3.99	1.00	1.95	6.61	7.78	0.35	0.00	0.00	0.00	0.00	1.15	23.33
1987	0.00	0.00	1.33	2.36	2.85	3.70	0.00	0.00	0.00	0.00	0.00	0.00	10.24
1988	2.60	1.36	3.90	2.25	2.22	1.05	3.72	0.10	0.00	0.00	0.00	0.00	17.20
1989	0.00	2.69	6.02	0.75	1.41	1.92	0.30	0.02	0.00	0.00	0.00	0.98	14.09
1990	0.98	0.47	0.12	2.61	2.13	0.33	0.32	1.02	0.00	0.00	0.00	0.46	8.44
1991	0.00	0.50	0.44	0.82	2.24	12.52	0.10	0.00	0.35	0.00	0.04	0.00	17.01
1992	0.80	0.52	4.25	2.53	7.89	2.87	0.00	0.00	0.00	8.00	0.00	0.00	26.86
1993	2.02	0.00	4.01	7.66	8.45	4.63	0.07	0.01	0.49	0.00	0.00	0.00	27.34
1994	0.30	2.04	1.60	2.40	4.60	0.75	1.56	0.70	0.00	0.00	0.03	0.43	14.41
1995	1.95	2.87	1.45	12.95	2.15	11.18	0.62	2.16	0.70	0.00	0.00	0.00	36.03
SUM	26.72	58.89	79.79	116.20	104.18	113.69	31.48	8.54	1.75	8.10	2.31	9.53	561.18
N	28	28	28	28	28	28	28	28	28	28	28	28	28
MEAN	0.95	2.10	2.85	4.15	3.72	4.06	1.12	0.31	0.06	0.29	0.08	0.34	20.04
MEAN for 1984-95 WATER YEARS	1.10	1.89	2.66	3.10	3.59	4.17	0.64	0.33	0.13	0.67	0.01	0.26	18.55
MAX	3.00	6.60	7.93	18.39	9.93	12.52	5.32	2.29	0.70	8.00	0.79	4.18	40.35
MIN	0.00	0.00	0.11	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.52
STD	0.90	1.86	1.97	4.19	3.03	3.23	1.36	0.60	0.16	1.48	0.23	0.82	9.08

PRECIPITATION IN INCHES

STATION NAME: TAR SPRINGS USGS
 LOCATION: ARROYO GRANDE 3 ENE
 GAGE NO: 178.2
 ELEVATION: 290.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 32 SOUTH
 RANGE: 13 EAST
 SECTION: 23H

LONGITUDE: 35-07-56
 LATITUDE: 120-32-30
 RECORD BEGAN: 1969

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1969	2.44	0.91	2.83	10.43	7.30	1.16	2.28	0.06	0.06	0.00	0.00	0.00	27.47
1970	0.53	0.68	0.97	3.67	2.00	1.74	0.00	0.00	0.00	0.00	0.00	0.00	9.59
1971	0.15	4.95	4.64	1.75	0.04	0.76	0.91	1.07	0.00	0.00	0.00	0.00	14.27
1972	0.29	1.29	4.81	0.56	0.37	0.00	0.71	0.00	0.00	0.07	0.00	0.06	8.16
1973	1.18	1.82	4.75	6.57	6.67	4.18	0.00	0.00	0.00	0.00	0.00	0.00	25.17
1974	0.66	3.53	3.07	6.51	0.13	5.70	1.19	0.00	0.00	0.00	0.00	0.00	20.79
1975	1.14	0.33	4.11	0.04	3.92	3.21	1.06	0.00	0.00	0.00	0.00	0.00	13.81
1976	1.29	0.05	0.05	0.00	4.73	0.91	0.49	0.00	0.00				7.52
SUM	7.68	13.56	25.23	29.53	25.16	17.66	6.64	1.13	0.06	0.07	0.00	0.06	126.78
N	8	8	8	8	8	8	8	8	8	7	7	7	8
MEAN	0.96	1.70	3.15	3.69	3.15	2.21	0.83	0.14	0.01	0.01	0.00	0.01	15.85
MAX	2.44	4.95	4.81	10.43	7.30	5.70	2.28	1.07	0.06	0.07	0.00	0.06	27.47
MIN	0.15	0.05	0.05	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.52
STD	0.69	1.60	1.69	3.57	2.75	1.84	0.69	0.35	0.02	0.02	0.00	0.02	7.25

PRECIPITATION IN INCHES

STATION NAME: TREATMENT PLANT
 LOCATION: LOPEZ TERMINAL RESERVOIR
 GAGE NO: 179.1
 ELEVATION: 335.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 32 SOUTH
 RANGE: 13 EAST
 SECTION: 1G

LONGITUDE: 35-10-13
 LATITUDE: 120-31-57
 RECORD BEGAN: 1970

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1970	0.40	1.09	0.80	4.83	0.66	3.08	0.11	0.00	0.00	0.00	0.00	0.00	10.97
1971	0.25	5.31	4.99	1.46	0.15	0.96	1.01	1.00	0.00	0.00	0.00	0.04	15.17
1972	0.44	1.39	5.02	0.44	0.40	0.00	0.55	0.08	0.11	0.00	0.00	0.03	8.46
1973	1.21	4.62	1.97	5.20	6.20	4.39	0.00	0.03	0.02	0.00	0.00	0.10	23.74
1974	0.83	3.55	3.09	7.21	0.17	6.16	1.29	0.00	0.00	0.05	0.00	0.00	22.35
1975	1.40	0.79	2.61	0.27	3.78	3.03	1.06	0.00	0.00	0.00	0.00	0.00	12.94
1976	1.05	0.28	0.24	0.00	2.96	1.89	0.85	0.00	0.00	0.00	1.20	3.54	12.01
1977	0.26	0.69	1.21	0.94	0.08	1.57	0.04	3.03	0.00	0.00	0.03	0.05	7.90
1978	0.01	0.31	6.15	5.89	6.65	5.80	3.80	0.00	0.02	0.00	0.00	1.19	29.82
1979	0.00	2.19	1.44	3.67	3.70	4.55	0.51	0.05	0.00	0.00	0.00	0.09	16.20
1980	1.21	0.61	1.89	6.37	5.88	2.29	0.78	0.44	0.00	0.22	0.00	0.00	19.69
1981	0.02	0.00	0.82	4.09	2.28	7.17	0.44	0.02	0.00	0.00	0.00	0.00	14.84
1982	0.64	1.78	1.62	3.37	1.49	6.06	4.85	0.02	0.13	0.00	0.00	0.63	20.59
1983	1.35	4.67	2.31	5.59	9.15	6.57	2.00	0.53	0.00	0.00	0.89	0.07	33.13
1984	2.10	3.17	4.39	0.14	0.49	0.90	0.51	0.00	0.00	0.00	0.00	0.00	11.70
1985	1.56	3.10	2.41	1.21	1.97	2.57	0.03	0.00	0.00	0.00	0.02	0.07	12.94
1986	0.38	3.48	0.67	1.31	4.30	6.65	0.40	0.00	0.00	0.04	0.00	1.40	18.63
1987	0.00	0.20	1.70	2.40	2.42	3.85	0.06	0.03	0.00	0.00	0.00	0.00	10.66
1988	2.30	1.28	3.59	1.72	2.27	0.26	3.10	0.10	0.07	0.00	0.00	0.00	14.69
1989	0.00	2.13	6.79	0.91	1.18	1.52	0.20	0.07	0.00	0.00	0.00	0.41	13.21
1990	0.91	0.42	0.03	2.07	1.83	0.27	0.31	0.00	0.00	0.00	0.00	0.73	6.57
1991	0.00	0.31	0.69	0.89	1.99	12.92	0.21	0.00	0.26	0.00	0.06	0.00	17.33
1992	0.68	0.54	3.99	3.01	7.73	2.17	0.02	0.00	0.00	0.81	0.00	0.00	18.95
1993	2.11	0.00	4.29	6.87	6.51	4.75	0.12	0.27	0.47				
1994										0.00	0.03	0.97	
1995	2.03	2.27	1.47	10.85	1.85	10.10	0.76	1.69	0.65	0.00	0.00	0.00	31.67
SUM	21.14	44.18	64.18	80.71	76.09	99.48	23.01	7.36	1.73	1.12	2.23	9.32	404.16
N	25	25	25	25	25	25	25	25	25	25	25	25	24
MEAN	0.85	1.77	2.57	3.23	3.04	3.98	0.92	0.29	0.07	0.04	0.09	0.37	16.84
MEAN for 1984-95 WATER YEARS	1.10	1.54	2.73	2.85	2.96	4.18	0.52	0.20	0.13	0.08	0.01	0.33	15.64
MAX	2.30	5.31	6.79	10.85	9.15	12.92	4.85	3.03	0.65	0.81	1.20	3.54	33.13
MIN	0.00	0.00	0.03	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.57
STD	0.74	1.58	1.84	2.72	2.55	3.12	1.22	0.68	0.16	0.16	0.29	0.76	7.06

PRECIPITATION IN INCHES

STATION NAME: WASTEWATER PLANT
 LOCATION: LOPEZ LAKE
 GAGE NO: 193.0
 ELEVATION: 530.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 31 SOUTH
 RANGE: 14 EAST
 SECTION: 27B

LONGITUDE: 35-12-12
 LATITUDE: 120-27-32
 RECORD BEGAN: 1973

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1973	1.69	4.84	2.23	6.75	8.43	4.60	0.00	0.00	0.00	0.00	0.00	0.00	28.54
1974	1.04	5.39	4.22	7.33	0.31	7.07	0.89	0.00	0.00	0.05	0.00	0.00	26.30
1975	2.17	1.04	4.60	0.18	4.74	4.91	1.69	0.00	0.00	0.00	0.00	0.00	19.33
1976	1.73	0.39	0.25	0.02	4.10	2.42	1.20	0.00	0.00	0.00	1.06	4.15	15.32
1977	0.75	0.68	1.72	1.17	0.22	1.50	0.01	2.57	0.00	0.00	0.03	0.03	8.68
1978	0.06	0.71	8.66	7.74	8.55	6.87	3.88	0.00	0.03	0.00	0.00	1.41	37.91
1979	0.00	1.79	1.67	4.87	5.21	5.00	0.47	0.02	0.00	0.00	0.00	0.12	19.15
1980	1.37	1.00	2.16	9.24	3.93	2.96	0.97	0.54	0.00	0.17	0.00	0.00	22.34
1981	0.04	0.00	1.17	5.76	2.62	8.61	0.61	0.00	0.00	0.00	0.00	0.00	18.81
1982	1.08	2.27	2.41	4.68	1.92	7.00	5.76	0.03	0.08	0.00	0.00	0.73	25.96
1983	2.20	6.94	3.32	8.07	9.33	9.14	3.18	0.32	0.00	0.00	0.76	0.07	43.33
1984	2.47	5.73	5.98	0.13	0.79	0.89	0.66	0.00	0.00	0.00	0.00	0.00	16.65
1985	1.84	4.09	2.97	1.16	1.91	3.26	0.13	0.00	0.00	0.00	0.16	0.05	15.37
1986	0.55	4.45	1.18	2.27	7.50	8.26	0.45	0.00	0.00	0.00	0.00	1.04	25.70
1987	0.00	0.35	1.60	2.81	2.76	4.18	0.31	0.02	0.03	0.00	0.00	0.00	12.06
1988	1.48	1.16	3.84	2.35	2.19	0.84	3.68	0.18	0.02	0.00	0.00	0.01	15.75
1989	0.00	3.03	7.13	0.96	1.74	2.40	0.28	0.03	0.00	0.00	0.00	1.15	16.72
1990	1.11	0.50	0.08	2.57	0.69	1.75	0.36	0.96	0.00	0.00	0.00	0.70	8.72
1991	0.00	0.52	0.87	0.89	2.41	13.98	0.20	0.00	0.19	0.00	0.04	0.00	19.10
1992	0.87	0.79	4.30	2.66	9.08	3.18	0.02	0.00	0.02	0.40	0.00	0.00	21.32
1993	1.91	0.00	4.44	8.31	8.91	4.83	0.26	0.17	0.70	0.00	0.00	0.00	29.53
1994	0.30	2.00	1.80	2.51	5.06	1.31	1.67	0.92	0.00	0.00	0.01	0.62	16.20
1995	1.81	2.87	1.47	14.02	2.25	12.01	0.91	1.95	0.78	0.00	0.00	0.15	38.22
SUM	24.27	50.54	68.07	96.45	94.65	116.97	27.59	7.71	1.85	0.62	2.06	10.23	501.01
N	23	23	23	23	23	23	23	23	23	23	23	23	23
MEAN	1.06	2.20	2.96	4.19	4.12	5.09	1.20	0.34	0.08	0.03	0.09	0.44	21.78
MEAN for 1984-95 WATER YEARS													
	1.01	2.12	2.97	3.39	3.77	4.74	0.74	0.35	0.15	0.03	0.02	0.31	19.61
MAX	2.47	6.94	8.66	14.02	9.33	13.98	5.76	2.57	0.78	0.40	1.06	4.15	43.33
MIN	0.00	0.00	0.08	0.02	0.22	0.84	0.00	0.00	0.00	0.00	0.00	0.00	8.68
STD	0.80	2.03	2.13	3.57	3.01	3.47	1.48	0.66	0.21	0.09	0.26	0.90	8.90

PRECIPITATION IN INCHES

STATION NAME: WASTEWATER PLANT
 LOCATION: OCEANO
 GAGE NO: 194.0
 ELEVATION: 10.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 32 SOUTH
 RANGE: 13 EAST
 SECTION: 31F

LONGITUDE: 35-06-05
 LATITUDE: 120-37-26
 RECORD BEGAN: 1973

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1973	1.32	4.29	1.46	6.00	4.34	3.45	0.00	0.01	0.00	0.00	0.05	0.05	20.97
1974	0.68	2.66	3.13	6.17	0.13	5.95	1.35	0.00	0.00	0.00	0.00	0.00	20.07
1975	1.25	0.55	3.55	0.20	3.43	2.17	0.92	0.00	0.05	0.00	0.00	0.07	12.19
1976	0.44	0.15	0.17	0.00	3.76	1.56	0.51	0.00	0.02	0.03	0.93	3.46	11.03
1977	0.23	0.72	1.14	1.11	0.09	1.50	0.02	2.20	0.00	0.00	0.00	0.04	7.05
1978	0.05	0.29	5.78	5.89	5.94	6.21	4.09	0.00	0.02	0.00	0.00	1.55	29.82
1979	0.00	1.69	1.32	4.53	3.85	2.39	0.28	0.03	0.00	0.00	0.00	0.20	14.29
1980	0.68	0.55	2.00	5.43	5.59	2.33	0.61	0.31	0.00	0.07	0.08	0.00	17.65
1981	0.06	0.01	2.04	3.24	2.33	7.05	0.37	0.00	0.00	0.00	0.00	0.00	15.10
1982	0.77	1.65	1.46	2.82	1.32	5.31	4.19	0.00	0.00	0.00	0.50	0.46	18.48
1983	1.23	3.30	1.53	6.99	8.06	6.57	7.73	0.50	0.00	0.00	0.41	0.00	36.32
1984	1.78	2.23	4.04	0.02	0.50	0.65	0.33	0.00	0.00	0.00	0.03	0.00	9.58
1985	0.66	2.71	2.70	0.80	1.18	1.31	0.04	0.00	0.00	0.00	0.02	0.08	9.50
1986	0.35	3.21	0.00	0.00	5.08	5.00	0.18	0.00	0.00	0.00	0.00	0.97	14.79
1987	0.00	0.33	1.34	2.15	1.93	4.56	0.00	0.11	0.05				
1988													
1989										0.00	0.00	1.74	
1990	1.25	0.60	0.03	2.47	2.71	0.41	0.10	1.17	0.00	0.00	0.00	0.45	9.19
1991	0.00	0.84	0.45	0.92	1.86	9.16	0.32	0.00	0.09	0.00	0.06	0.00	13.70
1992	0.47	0.37	2.72	1.93	9.48	2.66	0.05	0.00	0.00	0.72	0.00	0.00	18.40
1993	0.50	0.00	2.88	5.54	6.23	2.70	0.10	0.19	0.17				
1994										0.00	0.00	0.05	
1995	0.91	1.69	1.08	8.94	0.51	9.34	0.79	2.10	0.64	0.00	0.00	0.05	26.05
SUM	12.63	27.84	38.82	65.15	68.32	80.28	21.98	6.62	1.04	0.82	2.08	9.17	304.18
N	20	20	20	20	20	20	20	20	20	20	20	20	18
MEAN	0.63	1.39	1.94	3.26	3.42	4.01	1.10	0.33	0.05	0.04	0.10	0.46	16.90
MAX	1.78	4.29	5.78	8.94	9.48	9.34	7.73	2.20	0.64	0.72	0.93	3.46	36.32
MIN	0.00	0.00	0.00	0.00	0.09	0.41	0.00	0.00	0.00	0.00	0.00	0.00	7.05
STD	0.51	1.25	1.43	2.66	2.61	2.63	1.93	0.66	0.14	0.16	0.23	0.85	7.48

PRECIPITATION IN INCHES

STATION NAME: POLICE DEPARTMENT
 LOCATION: ARROYO GRANDE
 GAGE NO: 195.1
 ELEVATION: 115.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 32 SOUTH
 RANGE: 13 EAST
 SECTION: 2D

LONGITUDE: 35-07-12
 LATITUDE: 120-35-26
 RECORD BEGAN: 1974

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1974	0.77	3.00	2.96	7.09	0.16	5.45	1.70	0.00	0.00	0.00	0.00	0.00	21.13
1975	1.54	0.45	3.68	0.41	3.78	2.68	0.83	0.00	0.00	0.00	0.01	0.01	13.39
1976	1.11	0.15	0.11	0.00	2.64	1.47	0.64	0.00	0.03	0.00	1.03	2.57	9.75
1977	0.10	0.66	1.44	1.03	0.11	1.80	0.00	2.22	0.00	0.00	0.00	0.06	7.42
1978	0.01	0.25	6.36	6.42	6.63	6.23	4.47	0.00	0.00	0.00	0.00	1.25	31.62
1979	0.00	2.35	1.27	3.97	4.34	3.36	0.47	0.04	0.00	0.00	0.00	0.23	16.03
1980	0.98	0.63	2.33	5.87	5.67	1.88	0.51	0.35	0.00	0.11	0.00	0.00	18.33
1981	0.00	0.00	1.79	3.07	2.14	7.57	0.29	0.00	0.00	0.00	0.00	0.00	14.86
1982	0.75	1.64	1.16	3.00	1.40	5.58	4.60	0.00	0.12				
1983										0.00	0.63	0.09	
1984	1.65	3.06	4.49	0.04	0.48	0.67	0.57	0.00	0.00	0.00	0.00	0.01	10.97
1985	0.99	2.88	2.54	0.88	1.17	1.79	0.02	0.00	0.00	0.00	0.00	0.07	10.34
1986	0.35	3.72	0.91	1.36	5.53	5.40	0.31	0.00	0.00	0.00	0.00	1.02	18.60
1987	0.00	0.29	1.50	2.12	2.11	3.78	0.31	0.05	0.00	0.00	0.00	0.00	10.16
1988	1.66	0.96	3.50	1.75	2.19	0.00	2.34	0.08	0.07	0.00	0.00	0.00	12.55
1989	0.00	2.01	5.28	1.12	0.91	1.49	0.15	0.08	0.00				
1990													
1991	0.00	0.20	0.40	0.80	1.70	11.00	0.10	0.00	0.00				
1992													
1993										0.00	0.00	0.00	
1994	0.65	1.10	1.20	1.50	2.60	1.60	0.40	0.00	0.00	0.00	0.00	0.60	9.65
1995	0.30	1.09	0.90							0.00	0.00	0.00	
SUM	10.86	24.44	41.82	40.43	43.56	61.75	17.71	2.82	0.22	0.11	1.67	5.91	204.80
N	18	18	18	17	17	17	17	17	17	17	17	17	14
MEAN	0.60	1.36	2.32	2.38	2.56	3.63	1.04	0.17	0.01	0.01	0.10	0.35	14.63
MAX	1.66	3.72	6.36	7.09	6.63	11.00	4.60	2.22	0.12	0.11	1.03	2.57	31.62
MIN	0.00	0.00	0.11	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.42
STD	0.59	1.16	1.69	2.16	1.93	2.80	1.40	0.52	0.03	0.03	0.28	0.67	6.10

PRECIPITATION IN INCHES

STATION NAME: M. BOLDING - PRINTZ ROAD
 LOCATION: ARROYO GRANDE 2N
 GAGE NO: 200.0
 ELEVATION: 300.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 32 SOUTH
 RANGE: 13 EAST
 SECTION: 15E

LONGITUDE: 35-08-30
 LATITUDE: 120-34-35
 RECORD BEGAN: 1975

WATER YEAR													WATER YEAR
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1975	2.01	0.85	3.90	0.95	5.35	4.57	1.00	0.00	0.00	0.00	0.00	0.00	18.63
1976	1.28	0.21	0.18	0.00	3.87	1.75	0.91	0.00	0.00	0.00	1.33	3.13	12.66
1977	0.17	0.64	1.64	0.69	0.02	1.86	0.00	2.65	0.00	0.00	0.00	0.00	7.67
1978	0.00	0.50	7.15	7.15	7.53	5.62	3.99	0.00	0.00	0.00	0.00	1.31	33.25
1979	0.00	2.82	1.42	4.55	4.68	4.56	0.60	0.00	0.00				18.63
SUM	3.46	5.02	14.29	13.34	21.45	18.36	6.50	2.65	0.00	0.00	1.33	4.44	90.84
N	5	5	5	5	5	5	5	5	5	4	4	4	5
MEAN	0.69	1.00	2.86	2.67	4.29	3.67	1.30	0.53	0.00	0.00	0.33	1.11	18.17
MAX	2.01	2.82	7.15	7.15	7.53	5.62	3.99	2.65	0.00	0.00	1.33	3.13	33.25
MIN	0.00	0.21	0.18	0.00	0.02	1.75	0.00	0.00	0.00	0.00	0.00	0.00	7.67
STD	0.81	0.93	2.46	2.74	2.46	1.57	1.39	1.06	0.00	0.00	0.58	1.28	8.58

STATION NAME: COUNTY YARD
 LOCATION: ARROYO GRANDE
 GAGE NO: 205.0
 ELEVATION: 193.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 32 SOUTH
 RANGE: 13 EAST
 SECTION: 21L

LONGITUDE: 35-07-33
 LATITUDE: 120-35-20
 RECORD BEGAN: 1983

WATER YEAR													WATER YEAR
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1983	0.84	0.80	0.65	2.46	0.96	4.12	2.90	0.00	0.05	0.00	0.00	0.61	13.39
1983	1.11	2.85	1.46	4.56	5.93	6.16	1.47	0.00	0.00	0.00	0.43	1.75	25.72
1984	0.00	2.77	3.18	0.00	0.34	0.50	0.87	0.00	0.00	0.00	0.00	0.00	7.66
1985	1.44	1.65	1.74	0.81	1.90	1.27	0.10	0.00	0.00	0.00	0.00	0.82	9.73
1986	0.80	1.52	2.45	1.31	5.58	6.09	0.00	0.00	0.00	0.00	0.00	0.00	17.75
1987	0.00	0.00	1.75	1.25	1.62	0.70	0.58	0.00	0.00	0.00	0.00	0.00	5.90
1988	1.33	1.14	3.10	1.67	2.12	0.45	2.62	0.00	0.00	0.00	0.00	0.00	12.43
1989	0.00	0.42	6.25	0.60	0.03	1.66	0.41	0.02	0.00	0.28	0.00	0.75	10.42
1990	0.52	0.25	0.00	1.36	1.34	0.30	0.00	0.87	0.00				
1991										0.66	0.00	0.00	
1992	0.41	0.85	2.25	2.16	6.30	2.24	0.00	0.00	0.00	0.00	0.00	0.00	14.21
1993	0.44	0.00	2.70	4.94	4.85	4.80	0.00	0.22	0.00	0.00	0.00	0.00	17.95
1994	0.00	1.84	0.06	1.41	3.39	1.05	1.47	0.66	0.00	0.00	0.00	0.03	9.91
1995	1.60	1.39	1.50	10.82	1.56	9.02	0.85	1.87	0.00	0.00	0.00	0.00	28.61
SUM	8.49	15.48	27.09	33.35	35.92	38.36	11.27	3.64	0.05	0.94	0.43	3.96	173.68
N	13	13	13	13	13	13	13	13	13	13	13	13	12
MEAN	0.65	1.19	2.08	2.57	2.76	2.95	0.87	0.28	0.00	0.07	0.03	0.30	14.47
MEAN for 1984-95 WATER YEARS													
	0.59	1.08	2.27	2.39	2.64	2.55	0.63	0.33	0.00	0.09	0.00	0.15	13.46
MAX	1.60	2.85	6.25	10.82	6.30	9.02	2.90	1.87	0.05	0.66	0.43	1.75	28.61
MIN	0.00	0.00	0.00	0.00	0.03	0.30	0.00	0.00	0.00	0.00	0.00	0.00	5.90
STD	0.56	0.90	1.56	2.75	2.11	2.70	0.95	0.53	0.01	0.19	0.11	0.52	6.67

PRECIPITATION IN INCHES

STATION NAME: HOLZINGERS COW CAMP
 LOCATION: CRESTON
 GAGE NO: 205.2
 ELEVATION: 193.0 FEET

BASE & MERIDIAN: MOUNT DIABLO
 TOWNSHIP: 32 SOUTH
 RANGE: 13 EAST
 SECTION: 21L

LONGITUDE: 35-07-33
 LATITUDE: 120-35-20
 RECORD BEGAN: 1982

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1982	1.15	1.45	1.20	3.40	1.35	6.35	2.60	0.00	0.00	0.00	0.00	1.20	18.70
1983	1.30	5.85	3.80	7.40	4.85	6.70	2.70	0.35	0.00	0.00	0.45	1.60	35.00
1984	0.20	2.55	4.60	0.20	0.40	0.75	0.40	0.00	0.00	0.00	0.00	0.25	9.35
1985	0.40	2.65	2.80	0.68	1.50	2.35	0.20	0.00	0.00	0.00	0.00	0.00	10.58
1986	0.50	4.05	1.00	1.45	10.30	5.85	0.70	0.00	0.00	0.00	0.00	0.85	24.70
1987	0.00	0.50	0.40	2.00	1.90	3.60	0.10	0.00	0.00	0.00	0.00	0.00	8.50
1988	1.85	2.80	3.15	2.30	3.25	0.00	2.40	0.25	0.20	0.00	0.00	0.00	16.20
1989	0.00	1.65	4.65	1.35	1.70	1.10	0.30	0.25	0.00	0.00	0.00	1.64	12.64
1990	0.80	0.65	0.00	3.10	2.40	0.50	0.10	0.85	0.00	0.00	0.00	0.80	9.20
1991	0.00	0.10	0.25	1.10	2.30	13.90	0.00	0.00	0.20	0.00	0.05	0.20	18.10
1992	0.75	0.35	3.85	2.70	10.25	3.00	0.00	0.00	0.00	0.00	0.00	0.00	20.90
1993	1.80	0.00	4.50	8.80	6.51	3.30	0.00	0.00	0.00	0.00	0.00	0.00	24.91
1994	0.10	0.80	1.50	2.10	3.35	1.40	0.70	1.30	0.00	0.00	0.00	2.60	13.85
1995	1.10	2.40	1.10	12.70	1.10	12.90	0.35	1.25	0.35	0.00	0.00	0.00	33.25
SUM	9.95	25.80	32.80	49.28	51.16	61.70	10.55	4.25	0.75	0.00	0.50	9.14	255.88
N	14	14	14	14	14	14	14	14	14	14	14	14	14
MEAN	0.71	1.84	2.34	3.52	3.65	4.41	0.75	0.30	0.05	0.00	0.04	0.65	18.28
MEAN for 1984-95 WATER YEARS													
	0.63	1.54	2.32	3.21	3.75	4.05	0.44	0.33	0.06	0.00	0.00	0.53	16.85
MAX	1.85	5.85	4.65	12.70	10.30	13.90	2.70	1.30	0.35	0.00	0.45	2.60	35.00
MIN	0.00	0.00	0.00	0.20	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.50
STD	0.63	1.61	1.68	3.46	3.10	4.22	0.97	0.46	0.11	0.00	0.12	0.80	8.32

PRECIPITATION IN INCHES

STATION NAME: BETTERAVIA UNION SUGAR CO.
 LOCATION: BETTERAVIA
 GAGE NO: BET387
 ELEVATION: 160.0 FEET

BASE & MERIDIAN: SAN BERNARDINO
 TOWNSHIP: 10 NORTH
 RANGE: 35 WEST
 SECTION: 24

LONGITUDE: 34-55-00
 LATITUDE: 120-31-00
 RECORD BEGAN: 1898

WATER YEAR													WATER YEAR TOTAL
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1898	0.67	0.03	0.55	1.44	1.06	0.65	0.02	1.14	0.00	0.00	0.00	0.36	5.92
1899	0.30	0.05	0.64	3.49	0.52	3.88	1.02	0.00	0.44	0.00	0.00	0.00	10.34
1900	1.36	1.02	0.73	0.83	0.13	1.94	0.67	1.10	0.00	0.00	0.00	0.00	7.78
1901	0.47	3.53	0.11	3.96	2.75	0.31	1.53	0.45	0.00	0.00	0.00	0.00	13.11
1902	1.77	0.74	0.00	1.47	4.03	2.07	1.92	0.04	0.00	0.00	0.03	0.00	12.07
1903	0.81	1.75	1.00	1.76	1.87	3.36	0.87	0.00	0.00	0.00	0.00	0.00	11.42
1904	0.00	0.08	0.15	0.38	3.84	2.38	1.20	0.10	0.00	0.00	0.18	2.44	10.75
1905	1.32	0.00	1.30	1.95	6.12	4.46	0.49	2.00	0.00	0.03	0.00	0.10	17.77
1906	0.00	1.36	0.29	3.25	3.21	6.39	0.73	2.30	0.00	0.00	0.00	0.12	17.65
1907	0.00	0.73	4.59	8.60	0.68	3.82	0.19	0.11	0.00	0.00	0.00	0.11	18.83
1908	0.95	0.00	2.33	4.54	3.86	0.23	0.24	0.18	0.00	0.00	0.00	1.02	13.35
1909	0.40	0.98	0.66	13.27	6.73	5.03	0.00	0.00	0.00	0.00	0.00	0.00	27.07
1910	0.54	1.60	6.72	2.38	0.25	3.52	0.15	0.00	0.00	0.00	0.00	0.49	15.65
1911	0.63	0.32	0.42	6.75	4.52	5.89	1.10	0.08	0.00	0.00	0.00	0.00	19.71
1912	0.00	0.19	1.91	1.44	0.14	3.50	1.18	1.19	0.00	0.00	0.00	0.08	9.63
1913	0.02	0.42	0.25	2.86	1.66	0.60	0.48	0.00	0.15	0.36	0.97	0.00	7.77
1914	0.00	2.32	3.40	10.30	3.04	1.06	0.24	0.10	0.00	0.00	0.00	0.00	20.46
1915	0.00	0.71	4.85	4.82	7.08	0.20	1.04	1.35	0.00	0.00	0.00	0.00	20.05
1916	0.00	0.56	3.74	7.86	1.20	1.33	0.10	0.00	0.00	0.00	0.00	2.09	16.88
1917	1.78	0.49	6.06	1.69	1.87	0.37	0.07	0.26	0.00	0.00	0.00	0.00	12.59
1918	0.08	0.12	0.36	0.36	8.55	5.77	0.05	0.00	0.00	0.00	0.12	0.23	15.64
1919	0.67	3.46	2.01	0.91	2.45	1.77	0.00	0.47	0.00	0.00	0.12	0.21	12.07
1920	0.17	0.12	1.99	0.18	1.43	4.16	0.85	0.00	0.00	0.00	0.00	0.00	8.90
1921	0.65	1.08	1.57	3.11	1.96	1.60	0.26	1.32	0.00	0.00	0.00	0.49	12.04
1922	0.12	0.17	3.68	3.71	3.18	2.44	0.31	0.47	0.00	0.00	0.00	0.00	14.08
1923	0.45	1.16	3.06	1.87	1.39	0.09	4.66	0.00	0.07	0.00	0.00	0.18	12.93
1924	0.10	0.10	0.54	0.90	0.38	3.21	1.04	0.00	0.00	0.00	0.00	0.00	6.27
1925	0.69	0.56	1.92	1.73	1.73	3.40	2.63	1.30	0.17	0.00	0.00	0.00	14.13
1926	0.15	0.26	2.06	1.95	3.75	0.64	2.15	0.05	0.00	0.00	0.00	0.00	11.01
1927	0.63	3.37	0.98	2.10	5.02	1.24	1.46	0.11	0.06	0.00	0.00	0.00	14.97
1928	2.14	1.01	3.88	0.19	2.70	2.28	0.16	0.61	0.00	0.00	0.00	0.00	12.97
1929	0.00	2.26	2.56	1.62	1.63	1.37	0.74	0.00	0.16	0.00	0.00	0.00	10.34
1930	0.00	0.00	0.08	3.86	1.19	2.80	0.94	0.49	0.07	0.00	0.00	0.28	9.71
1931	0.00	2.10	0.04	4.18	1.43	0.16	0.56	0.57	0.00	0.00	0.00	0.00	9.04
1932	0.11	2.24	6.56	3.25	3.26	0.23	0.09	0.22	0.00	0.00	0.67	0.32	16.95
1933	0.00	0.06	1.29	6.60	0.39	0.71	0.20	0.25	1.80	0.00	0.00	0.00	11.30
1934	0.30	0.00	2.79	1.07	1.80	0.29	0.00	0.03	0.60	0.00	0.00	0.00	6.88
1935	1.84	2.19	1.01	3.92	1.25	3.23	0.70	0.00	0.00	0.00	0.00	0.25	14.39
1936	0.35	2.03	1.44	1.20	5.20	0.77	0.72	0.02	0.13	0.00	0.40	0.00	12.26
1937	1.32	0.00	5.84	3.28	3.93	3.76	0.34	0.00	0.00	0.11	0.07	0.00	18.65
1938	0.33	0.41	2.79	4.38	6.49	4.01	1.41	0.00	0.00	0.00	0.00	0.93	20.75
1939	0.31	0.31	1.79	3.56	1.99	2.72	0.26	0.04	0.00	0.00	0.00	2.01	12.99
1940	0.53	0.86	1.50	3.96	2.76	1.89	0.54	0.00	0.00	0.00	0.00	0.00	12.04
1941	0.62	0.16	5.16	5.09	7.48	7.55	3.03	0.07	0.00	0.00	0.00	0.00	29.16
1942	1.04	0.32	7.33	1.48	1.19	2.26	0.15	0.00	0.00	0.04	0.09	0.00	13.90
1943	1.05	0.71	1.68	6.39	1.24	2.20	1.08	0.10	0.00	0.00	0.00	0.00	14.45
1944	1.05	0.22	3.20	1.29	4.99	0.66	1.59	0.09	0.00	0.00	0.00	0.00	13.09
1945	0.32	2.03	1.33	0.87	2.43	3.76	0.09	0.00	0.16	0.00	0.00	0.00	10.99
1946	0.52	0.64	2.94	0.45	1.69	0.97	0.21	0.18	0.00	0.00	0.00	0.27	7.87
1947	0.14	3.38	1.43	0.34	0.83	1.22	0.18	0.18	0.03	0.00	0.00	0.04	7.77
1948	0.46	0.07	0.52	0.03	1.42	3.27	1.70	0.65	0.00	0.00	0.00	0.00	8.12
1949	0.07	0.00	3.26	1.48	2.04	2.57	0.22	0.91	0.00	0.00	0.00	0.00	10.55

PRECIPITATION IN INCHES

STATION NAME: BETTERAVIA UNION SUGAR CO. BASE & MERIDIAN: SAN BERNARDINO LONGITUDE: 34-55-00
 LOCATION: BETTERAVIA TOWNSHIP: 10 NORTH LATITUDE: 120-31-00
 GAGE NO: BET387 RANGE: 35 WEST RECORD BEGAN: 1898
 ELEVATION: 160.0 FEET SECTION: 24

WATER YEAR													WATER YEAR
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1950	0.17	0.92	2.35	2.78	3.39	1.61	0.76	0.09	0.00	0.00	0.00	0.00	12.07
1951	0.77	1.00	0.70	2.57	1.81	0.16	1.79	0.01	0.00	0.98	0.00	0.13	9.92
1952	0.75	1.37	4.34	5.66	0.72	5.21	0.34	0.00	0.06	0.00	0.00	0.00	18.45
1953	0.00	3.63	4.36	1.37	0.00	1.04	1.62	0.00	0.00	0.00	0.00	0.00	12.02
1954	0.00	2.51	0.12	3.39	1.57	3.54	0.38	0.00	0.04	0.00	0.00	0.00	11.55
1955	0.00	1.00	1.91	4.47	1.70	0.39	2.44	0.29	0.00	0.00	0.00	0.00	12.20
1956	0.00	2.05	5.15	3.81	0.81	0.00	1.48	0.37	0.00	0.00	0.00	0.00	13.67
1957	0.50	0.00	0.61	2.55	2.02	0.58	1.21	0.97	0.19	0.00	0.00	0.00	8.63
1958	1.07	0.33	2.34	2.68	5.09	5.90	3.03	0.13	0.00	0.00	0.00	0.93	21.50
1959	0.00	0.31	0.22	2.05	5.34	0.00	0.41	0.00	0.00	0.00	0.00	0.32	8.65
1960	0.00	0.00	0.32	3.38	5.50	0.88	1.95	0.00	0.00	0.00	0.00	0.00	12.03
1961	1.24	3.64	0.93	0.94	0.17	0.97	0.25	0.15	0.00	0.00	0.00	0.03	8.32
1962	0.00	2.11	1.51	3.12	10.26	1.60	0.00	0.20	0.05	0.00	0.07	0.00	18.92
1963	0.72	0.06	0.41	1.59	3.47	3.84	2.19	0.45	0.00	0.00	0.00	0.40	13.13
1964	1.39	1.71	0.22	1.13	0.05	2.87	0.15	0.27	0.14	0.00	0.05	0.00	7.98
1965	1.87	2.75	1.86	0.96	0.58	1.82	3.28	0.00	0.00	0.01	0.14	0.00	13.27
1966	0.10	3.72	2.97	1.07	0.94	0.23	0.00	0.00	0.06	0.00	0.00	0.15	9.24
1967	0.00	2.31	3.83	3.28	0.54	2.72	3.83	0.23	0.30	0.00	0.00	0.29	17.33
1968	0.00	2.57	1.68	0.96	0.98	2.37	0.57	0.04	0.00	0.00	0.00	0.00	9.17
1969	1.90	1.13	2.12	9.10	7.72	0.59	1.89	0.00	0.00	0.00	0.00	0.10	24.55
1970	0.28	1.10	0.47	2.66	3.03	1.36	0.00	0.00	0.05	0.00	0.00	0.00	8.95
1971	0.05	3.13	3.67	1.01	0.12	0.45	0.94	0.67	0.00	0.00	0.00	0.10	10.14
1972	0.30	0.80	2.99	0.21	0.45	0.00	0.28	0.00	0.00	0.00	0.00	0.00	5.03
1973	1.19	4.20	1.20	5.40	5.99	3.06	0.00	0.02	0.00	0.00	0.00	0.09	21.15
1974	0.58	2.64	2.61	4.65	0.08	5.74	0.56	0.00	0.00	0.00	0.00	0.00	16.66
1975	1.02	0.16	4.33	0.08	3.75	3.55	1.02	0.00	0.00	0.00	0.00	0.00	13.91
1976	0.80	0.39	0.47	0.00	3.90	1.40	1.06	0.00	0.00	0.00	1.08	2.75	11.85
1977	0.44	0.59	1.35	2.59	0.10	1.35	0.00	2.19	0.00	0.00	0.00	0.00	8.61
1978	0.00	0.29	4.18	6.01	7.00	6.56	2.67	0.00	0.00	0.00	0.00	1.62	28.33
1979	0.00	1.04	1.45	4.10	3.99	3.57	0.09	0.10	0.00	0.00	0.00	0.30	14.64
1980	0.58	0.43	1.28	4.63	6.13	2.35	0.64	0.38	0.06	0.00	0.00	0.00	16.48
1981	0.02	0.00	1.43	3.49	2.45	6.25	0.29	0.00	0.00	0.00	0.00	0.00	13.93
1982	1.00	1.05	0.92	2.95	1.29	4.15	3.51	0.00	0.20	0.00	0.21	0.31	15.59
1983	1.39	3.84	1.48	6.64	6.26	6.04	2.23	0.10	0.00	0.00	0.33	0.00	28.31
1984	1.71	1.89	3.08	0.59	0.55	0.61	0.00	0.00	0.00	0.00	0.00	0.00	8.43
1985	0.60	2.36	2.98	1.15	1.34	2.13	0.12	0.00	0.00	0.00	0.00	0.00	10.68
1986	0.43	2.02	2.06	0.85	3.64	4.55	0.46	0.00	0.00	0.00	0.00	0.98	14.99
1987	0.00	1.19	1.24	1.87	1.97	3.64	0.24	0.00	0.00	0.00	0.00	0.00	10.15
1988	2.13	1.18	2.59	1.80	1.97	0.36	2.88	0.15	0.15	0.00	0.00	0.00	13.21
1989	0.00	1.27	4.37	0.55	1.29	0.79	0.15	0.06	0.00	0.00	0.00	0.82	9.30
1990	0.01	0.58	0.03	2.34	0.66	0.00	0.00	0.37	0.00	0.00	0.00	0.34	4.33
1991	0.00	0.16	0.75	1.13	1.72	10.23	0.14	0.00	0.00	0.00	0.00	0.00	14.13
1992	0.31	0.27	3.51	2.26	5.71	1.76	0.00	0.00	0.00	0.00	0.00	0.00	13.82
1993	0.93	0.00	3.14	6.01	3.51	4.18	0.04	0.00	0.00	0.00	0.00	0.00	17.81
SUM	51.48	111.98	205.82	278.18	261.29	234.39	86.45	25.77	5.14	1.53	4.53	21.68	1288.25
N	96	96	96	96	96	96	96	96	96	96	96	96	96
MEAN	0.54	1.17	2.14	2.90	2.72	2.44	0.90	0.27	0.05	0.02	0.05	0.23	13.42
MAX	2.14	4.20	7.33	13.27	10.26	10.23	4.66	2.30	1.80	0.98	1.08	2.75	29.16
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.33
STD	0.58	1.13	1.70	2.39	2.23	2.01	1.00	0.48	0.20	0.11	0.17	0.52	5.04

PRECIPITATION IN INCHES

STATION NAME: PURITAN ICE COMPANY
 LOCATION: GUADALUPE
 GAGE NO: PUR352
 ELEVATION: 80.0 FEET

BASE & MERIDIAN: SAN BERNARDINO
 TOWNSHIP: 10 NORTH
 RANGE: 35 WEST
 SECTION: 16

LONGITUDE: 34-57-00
 LATITUDE: 120-34-00
 RECORD BEGAN: 1921

WATER YEAR													WATER YEAR TOTAL
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1921	0.43	2.54	1.59	1.38	2.33	0.64	0.32	1.46	0.00	0.00	0.00	0.44	11.13
1922	0.05	0.65	5.31	3.90	2.97	2.50	0.22	0.35	0.00	0.00	0.00	0.00	15.95
1923	0.33	1.66	3.58	1.91	1.06	0.18	3.97	0.05	0.00	0.00	0.00	0.23	12.97
1924	0.12	0.06	0.62	0.63	0.50	3.14	1.00	0.01	0.00	0.00	0.00	0.06	6.14
1925	0.76	0.78	1.85	2.56	1.34	3.61	2.09	1.71	0.05	0.00	0.00	0.01	14.76
1926	0.16	0.07	1.81	1.72	2.99	0.23	0.00	0.00	0.00	0.00	0.00		
1927													
1928													
1929													
1930													
1931	0.00	1.13	0.00	4.26	1.33	0.14	0.36	0.55	0.00	0.00	0.51	0.00	8.28
1932	0.06	2.56	5.88	3.22	2.18	0.05	0.10	0.30	0.05	0.00	0.00	0.05	14.45
1933	0.00	0.07	1.22	5.45	0.45	0.61	0.10	0.27	1.53	0.00	0.00	0.00	9.70
1934	0.41	0.00	3.20	0.00	1.75	0.19	0.05	0.04	0.94	0.00	0.00	0.07	6.65
1935	1.67	1.73	1.19	4.39	1.09	3.22	3.12	0.00	0.00	0.00	0.00	0.17	16.58
1936	0.33	1.83	1.21	1.10	6.39	2.47	0.55	0.70	0.25	0.13	0.00	0.10	15.06
1937	0.69	0.00	4.76	2.97	3.10	3.90	0.27	0.00	0.00	0.00	0.00	0.00	15.69
1938	0.12	0.27	2.24	4.24	6.27	3.26	1.28	0.03	0.00	0.00	0.00	0.58	18.29
1939	0.35	0.32	1.38	3.08	1.61	2.07	0.32	0.05	0.00	0.00	0.00	1.27	10.45
1940	0.75	0.90	1.19	3.39	2.00	1.39	0.35	0.00	0.00	0.00	0.00	0.00	9.97
1941	0.39	0.16	3.98	4.95	6.04	5.84	2.68	0.00	0.00	0.00	0.00	0.00	24.04
1942	1.06	0.20	6.75	1.20	0.69	1.22	2.28	0.08	0.00	0.00	0.00	0.00	13.48
1943	0.72	0.42	1.42	4.43	1.09	1.48	0.97	0.00	0.00	0.00	0.00	0.00	10.53
1944	0.91	0.32	2.70	1.17	2.67	0.00	1.24	0.09	0.00	0.00	0.00	0.00	9.10
1945	0.05	1.47	1.45	0.40	2.94	2.46	0.00	0.00	0.00	0.00	0.02	0.39	9.18
1946	0.25	0.51	1.53	0.37	1.31	2.73	0.00	0.11	0.00	0.00	0.00	0.22	7.03
1947	0.10	2.25	1.22	0.34	0.57	0.88	0.31	0.40	0.01	0.00	0.00	0.42	6.50
1948	0.13	0.39	0.02	1.40	0.84	0.24	0.40	0.07	0.00	0.00	0.00	0.00	3.49
1949	0.06	0.00	2.70	0.83	0.99	2.97	0.20	1.09	0.00	0.00	0.00	0.00	8.84
1950	0.03	0.63	2.26	2.00	1.34	0.73	0.14	0.07	0.89	0.00	0.00	0.00	8.09
1951	0.81	1.18	0.67	2.14	1.62	0.30	1.25	0.00	0.01	0.00	0.00	0.01	7.99
1952	0.36	1.07	2.22	5.15	0.78	4.89	0.56	0.00	0.03	0.00	0.00	0.00	15.06
1953	0.00	3.06	3.86	0.84	0.00	0.45	1.03	0.02	0.00	0.00	0.00	0.00	9.26
1954	0.00	1.78	0.19	2.76	1.27	3.76	0.31	0.00	0.00	0.00	0.00	0.00	10.07
1955	0.00	0.96	1.62	3.53	1.69	0.31	2.27	0.57	0.00	0.00	0.00	0.00	10.95
1956	0.00	1.72	5.65	2.55	0.72	0.01	1.08	0.48	0.00	0.00	0.00	0.00	12.21
1957	0.36	0.00	0.51	2.72	2.28	0.76	1.24	0.69	0.20	0.00	0.00	0.00	8.76
1958	2.18	0.22	2.09	1.63	4.76	6.39	4.23	0.22	0.00	0.00	0.00	0.87	22.59
1959	0.00	0.20	0.19	2.37	4.48	0.01	0.58	0.00	0.00	0.00	0.00	0.54	8.37
1960	0.00	0.00	0.49	3.47	5.79	0.54	3.06	0.00	0.00	0.00	0.00	0.00	13.35
1961	0.88	3.80	0.30	0.96	0.18	0.67	0.39	0.19	0.00	0.00	0.24	0.00	7.61
1962	0.00	2.49	1.22	1.79	10.35	1.32	0.10	0.07	0.01	0.00	0.00	0.00	17.35
1963	0.43	0.03	0.49	0.82	3.63	4.20	2.62	0.46	0.00	0.00	0.02	0.47	13.17
1964	1.13	1.89	0.19	1.93	0.00	3.10	0.13	0.53	0.04	0.04	0.16	0.00	9.14
1965	1.80	2.32	2.05	1.16	0.33	1.67	3.65	0.00	0.00	0.00	0.00	0.00	12.98
1966	0.03	5.88	2.28	0.96	1.13	0.00	0.01	0.00	0.01	0.21	0.03	0.21	10.75
1967	0.00	1.89	2.87	3.53	0.02	3.31	5.17	0.00	0.00	0.00	0.00	0.34	17.13
1968	0.00	2.40	1.50	0.69	1.10	1.97	0.83	0.00	0.00	0.00	0.00	0.00	8.49
1969	2.14	0.96	1.99	13.01	8.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.91
1970	0.29	1.00	0.78	2.34	0.81	2.66	0.04	0.00	0.00	0.00	0.00	0.00	7.92
1971	0.00	3.11	3.76	1.18	0.19	0.26	0.80	0.98	0.00	0.00	0.00	0.06	10.34
1972	0.17	1.01	2.85	0.26	0.35	0.00	0.21	0.02	0.05	0.03	0.00	0.03	4.98

PRECIPITATION IN INCHES

STATION NAME: PURITAN ICE COMPANY
 LOCATION: GUADALUPE
 GAGE NO: PUR352
 ELEVATION: 80.0 FEET

BASE & MERIDIAN: SAN BERNARDINO
 TOWNSHIP: 10 NORTH
 RANGE: 35 WEST
 SECTION: 16

LONGITUDE: 34-57-00
 LATITUDE: 120-34-00
 RECORD BEGAN: 1921

WATER YEAR													WATER YEAR
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1973	0.96	4.53	1.29	4.82	5.19	2.98	0.01	0.03	0.00	0.00	0.09	0.00	19.90
1974	0.66	3.42	1.50	4.92	0.26	4.99	1.03	0.00	0.00	0.03	0.00	0.00	16.81
1975	1.11	0.13	4.54	0.65	3.03	2.61	1.09	0.00	0.00	0.00	0.00	0.00	13.16
1976	0.79	0.28	0.15	0.00	4.75	0.94	0.98	0.00	0.08	0.00	0.72	2.64	11.33
1977	1.21	1.15	2.45	1.02	0.11	1.62	0.02	2.22	0.00	0.00	0.00	0.00	9.80
1978	0.14	0.24	3.61	6.09	6.82	4.62	3.25	0.00	0.00	0.00	0.00	1.41	26.18
1979	0.00	1.10	1.10	5.18	3.21	2.82	0.08	0.14	0.00	0.00	0.00	0.50	14.13
1980	0.50	0.48	2.18	3.28	6.79	1.41	0.59	0.33	0.00	0.09	0.00	0.00	15.65
1981	0.00	0.00	1.06	3.12	3.42	4.71	0.38	0.02	0.00	0.00	0.00	0.00	12.71
1982	0.68	1.84	1.20	1.97	1.39	5.17	1.67	0.00	0.05	0.00	0.00	0.39	14.36
1983	0.92	3.32	0.75	6.04	5.63	3.93	1.83	0.11	0.00	0.00	0.37	1.37	24.27
1984	0.56	1.76	2.93	0.09	0.37	0.61	0.51	0.00	0.02	0.00	0.00	0.00	6.85
1985	0.43	1.83	2.42	0.86	0.88	1.37	0.02	0.00	0.00	0.00	0.00	0.00	7.81
1986	0.60	3.63	0.72	1.04	3.12	5.86	0.48	0.03	0.00	0.00	0.00	0.66	16.14
1987	0.06	0.98	1.02	1.75	1.82	3.63	0.25	0.02	0.00	0.00	0.00	0.00	9.53
1988	1.71	1.01	2.68	1.71	1.97	0.10	2.49	0.27	0.06	0.00	0.00	0.00	12.00
1989	0.00	0.81	3.98	0.49	0.84	0.81	0.41	0.12	0.00	0.00	0.00	1.20	8.66
1990	0.54	0.42	0.00	2.92	2.04	0.33	0.47	0.50	0.00	0.00	0.00	0.35	7.57
1991	0.00	0.10	0.76	1.10	2.55	8.39	0.37	0.00	0.11	0.00	0.02	0.03	13.43
1992	0.39	0.15	3.23	2.01	6.10	1.62	0.08	0.00	0.00	0.16	0.00	0.00	13.74
1993	0.35	0.00	3.46	4.04	4.55	3.51	0.00	0.25	0.07	0.00	0.00	0.00	16.23
SUM	32.12	85.07	139.86	170.18	170.97	144.76	67.89	15.70	4.46	0.69	2.18	15.09	841.99
N	69	69	69	69	69	69	69	69	69	69	69	68	68
MEAN	0.47	1.23	2.03	2.47	2.48	2.10	0.98	0.23	0.06	0.01	0.03	0.22	12.38
MAX	2.18	5.88	6.75	13.01	10.35	8.39	5.17	2.22	1.53	0.21	0.72	2.64	26.91
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.49
STD	0.53	1.24	1.52	2.05	2.27	1.89	1.18	0.42	0.24	0.04	0.12	0.45	4.95

PRECIPITATION IN INCHES

STATION NAME: SANTA MARIA CITY
 LOCATION: SANTA MARIA
 GAGE NO: SMC380
 ELEVATION: 224.0 FEET

BASE & MERIDIAN: SAN BERNARDINO
 TOWNSHIP: 10 NORTH
 RANGE: 34 WEST
 SECTION: 14

LONGITUDE: 34- 34-57-00
 LATITUDE: 120-2 120-26-0
 RECORD BEGAN: 1886

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1886	0.00	8.80	1.60	1.83	0.97	2.55	3.37	0.00	0.00	0.00	0.00	0.00	19.12
1887	0.06	0.59	0.72	0.50	5.95	0.25	1.07	0.22	0.00	0.00	0.00	0.30	9.66
1888	0.40	1.09	2.69	4.62	0.43	1.98	0.12	0.14	0.00	0.00	0.00	0.00	11.47
1889	0.00	2.59	5.86	0.42	1.35	4.20	0.97	0.60	0.05	0.00	0.00	0.00	16.04
1890	7.53	1.80	6.71	7.02	3.64	0.88	0.10	0.13	0.00	0.06	0.00	0.55	28.42
1891	0.70	0.70	3.40	0.63	3.57	0.71	1.58	0.20	0.00	0.00	0.00	0.03	11.52
1892	0.00	0.33	2.77	0.56	2.18	2.36	0.45	1.15	0.00	0.00	0.00	0.00	9.80
1893	0.35	1.95	2.52	2.08	3.10	6.84	0.80	0.05	0.00	0.00	0.00	0.00	17.69
1894	0.65	0.22	2.95	1.16	1.78	0.62	0.25	0.73	0.16	0.06	0.00	1.05	9.63
1895	0.68	0.07	3.86	4.43	1.22	1.25	0.53	0.51	0.00	0.00	0.00	0.01	12.56
1896	0.65	1.26	0.60	4.60	0.00	2.59	1.77	0.03	0.00	0.11	0.03	0.02	11.66
1897	0.60	1.82	2.34	3.55	4.00	2.52	0.14	0.01	0.00	0.03	0.00	0.10	15.11
1898	0.67	0.03	0.55	1.44	1.06	0.65	0.02	1.14	0.00	0.00	0.00	0.96	6.52
1899	0.30	0.05	0.64	3.49	0.46	4.88	0.99	0.75	0.00	0.00	0.00	0.00	11.56
1900	1.86	1.21	0.89	0.87	0.05	1.41	0.97	1.97	0.00	0.00	0.00	0.00	9.23
1901	0.65	5.40	0.35	4.51	3.17	0.25	1.82	0.13	0.00	0.00	0.00	0.12	16.40
1902	1.60	0.56	0.01	1.73	4.03	2.37	1.70	0.20	0.00	0.00	0.00	0.00	12.20
1903	1.02	2.59	0.79	1.80	1.91	3.97	0.71	0.00	0.00	0.00	0.00	0.00	12.79
1904	0.00	0.19	0.16	0.55	5.39	3.06	1.73	0.10	0.00	0.00	0.86	2.55	14.59
1905	1.25	0.03	1.55	1.85	5.83	4.46	0.69	1.58	0.00	0.02	0.00	0.07	17.33
1906	0.15	1.37	0.31	2.64	3.40	6.94	0.55	2.39	0.02	0.00	0.01	0.01	17.79
1907	0.00	0.63	4.35	7.78	1.02	3.95	0.23	0.00	0.04	0.00	0.00	0.06	18.06
1908	3.57	0.00	1.80	3.98	3.76	0.35	0.26	0.18	0.00	0.00	0.00	1.03	14.93
1909	0.52	0.97	0.61	10.31	4.98	4.39	0.00	0.00	0.00	0.00	0.00	0.00	21.78
1910	0.75	2.14	5.89	3.47	0.50	3.82	0.01	0.00	0.00	0.00	0.00	0.65	17.23
1911	0.72	0.15	0.45	6.42	3.80	6.68	1.82	0.00	0.00	0.00	0.00	0.00	20.04
1912	0.00	0.00	1.77	1.34	0.10	4.13	0.69	1.60	0.00	0.00	0.00	0.00	9.63
1913	0.00	0.40	0.20	2.20	1.27	0.63	0.42	0.00	0.34	0.00	0.00	0.00	5.46
1914	1.00	2.45	2.95	9.36	2.20	0.90	0.00	0.00	0.00	0.00	0.00	0.00	18.86
1915	0.00	0.00	5.40	4.05	6.31	0.54	1.11	1.52	0.00	0.00	0.00	0.00	18.93
1916	0.00	0.60	3.31	8.95	2.12	1.49	0.19	0.00	0.00	0.00	0.00	2.51	19.17
1917	1.92	0.52	4.15	2.53	2.01	0.50	0.11	0.23	0.00	0.00	0.00	0.00	11.97
1918	0.09	0.00	0.31	0.53	9.39	5.87	0.00	0.00	0.00	0.00	0.00	0.00	16.19
1919	0.63	3.55	1.46	0.68	2.36	1.57	0.00	0.74	0.00	0.00	0.00	0.41	11.40
1920	0.00	0.15	1.88	0.24	1.78	4.02	1.12	0.00	0.00	0.00	0.00	0.00	9.19
1921	0.73	0.94	1.24	3.13	1.65	1.57	0.32	1.45	0.01	0.00	0.00	0.44	11.48
1922	0.05	0.13	5.32	4.90	2.97	2.50	0.22	0.35	0.00	0.00	0.00	0.00	16.44
1923	0.32	1.34	3.59	1.91	1.06	0.18	3.97	0.05	0.01	0.01	0.00	0.22	12.66
1924	0.30	0.00	0.62	0.64	0.46	3.01	1.00	0.01	0.00	0.00	0.03	0.04	6.11
1925	0.76	0.78	1.85	2.56	1.67	3.28	2.34	1.71	0.05	0.02	0.01	0.01	15.04
1926	0.16	0.12	1.81	1.72	2.99	0.41	2.68	0.11	0.01	0.02	0.01	0.04	10.08
1927	0.55	3.37	0.91	1.88	5.21	2.10	1.26	0.06	0.20	0.02	0.01	0.02	15.59
1928	3.08	0.81	3.80	0.22	2.51	3.99	0.19	0.71	0.00	0.00	0.01	0.02	15.34
1929	0.04	2.31	2.16	2.28	1.22	1.61	0.94	0.00	0.16	0.00	0.00	0.01	10.73
1930	0.02	0.00	0.15	3.42	1.18	2.70	0.94	0.68	0.08	0.00	0.00	0.16	9.33
1931	0.02	1.55	0.00	4.16	1.13	0.28	0.42	0.94	0.06	0.01	0.31	0.09	8.97
1932	0.04	2.46	6.56	4.25	2.14	0.31	0.31	0.26	0.04	0.02	0.02	0.07	16.48
1933	0.09	0.09	1.31	6.08	0.30	0.94	0.18	0.38	1.96	0.00	0.00	0.02	11.35
1934	0.32	0.03	2.91	1.11	1.52	0.20	0.00	0.26	1.30	0.01	0.01	0.01	7.68
1935	3.14	2.19	1.78	4.16	1.64	3.11	3.09	0.00	0.00	0.01	0.26	0.17	19.55
1936	0.50	2.02	1.71	1.31	5.32	1.23	1.06	0.13	0.03	0.02	0.01	0.14	13.48
1937	1.83	0.00	5.69	3.59	4.83	4.65	0.22	0.00	0.00	0.01	0.00	0.00	20.82

PRECIPITATION IN INCHES

STATION NAME: SANTA MARIA CITY
 LOCATION: SANTA MARIA
 GAGE NO: SMC380
 ELEVATION: 224.0 FEET

BASE & MERIDIAN: SAN BERNARDINO
 TOWNSHIP: 10 NORTH
 RANGE: 34 WEST
 SECTION: 14

LONGITUDE: 34- 34-57-00
 LATITUDE: 120-2 120-26-0
 RECORD BEGAN: 1886

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1938	0.16	0.26	2.88	4.72	7.39	4.09	2.01	0.04	0.02	0.00	0.02	0.59	22.18
1939	0.18	0.23	1.53	3.25	2.18	2.39	0.22	0.03	0.00	0.00	0.00	1.50	11.51
1940	0.46	1.03	1.30	5.41	2.67	1.98	1.74	0.00	0.00	0.00	0.00	0.02	14.61
1941	0.73	0.12	5.25	5.04	6.83	8.72	3.86	0.07	0.00	0.09	0.03	0.01	30.75
1942	1.04	0.32	7.50	1.35	1.30	2.04	2.82	0.08	0.00	0.00	0.02	0.02	16.49
1943	0.82	0.84	2.94	7.23	1.27	3.04	1.06	0.02	0.00	0.00	0.00	0.00	17.22
1944	1.05	0.47	3.09	1.32	4.69	1.26	2.46	0.11	0.01	0.00	0.00	0.00	14.46
1945	0.12	2.26	1.90	0.61	2.87	3.27	0.11	0.04	0.11	0.00	0.02	0.00	11.31
1946	0.53	0.88	3.11	0.50	1.63	4.13	0.20	0.10	0.00	0.00	0.00	0.00	11.08
1947	0.24	3.71	1.98	0.35	1.10	1.27	0.28	0.30	0.13	0.00	0.00	0.06	9.42
1948	0.58	0.04	0.29	0.06	1.29	3.21	1.89	0.81	0.03	0.00	0.00	0.00	8.20
1949	0.08	0.01	2.92	1.37	1.29	2.54	0.06	0.82	0.00	0.00	0.00	0.00	9.09
1950	0.03	0.71	2.78	2.54	1.50	1.37	0.73	0.15	0.00	0.62	0.00	0.04	10.47
1951	0.85	1.50	0.88	2.01	1.10	0.87	1.36	0.01	0.00	0.00	0.01	0.07	8.66
1952	0.57	1.17	4.05	5.69	0.69	5.30	0.42	0.00	0.68	0.00	0.00	0.00	18.57
1953	0.02	2.97	4.73	1.45	0.00	0.27	1.23	0.12	0.07	0.00	0.00	0.01	10.87
1954	0.01	2.34	0.29	3.48	1.44	4.20	0.33	0.00	0.02	0.01	0.00	0.00	12.12
1955	0.00	0.97	2.08	3.95	1.35	0.40	1.98	0.60	0.01	0.00	0.00	0.00	11.34
1956	0.00	1.60	4.50	2.84	0.64	0.00	1.89	0.54	0.00	0.00	0.00	0.00	12.01
1957	0.61	0.00	0.74	2.17	1.95	0.79	1.00	0.98	0.22	0.00	0.00	0.00	8.46
1958	1.70	0.55	1.78	2.41	4.70	4.25	4.27	0.18	0.00	0.00	0.00	1.43	21.27
1959	0.00	0.30	0.13	1.75	4.57	0.00	0.23	0.00	0.00	0.00	0.00	0.00	6.98
1960	0.00	0.00	0.65	3.55	4.13	0.85	2.15	0.00	0.00	0.00	0.00	0.00	11.33
1961	1.75	2.50	0.80	0.80	0.10	0.68	0.23	0.21	0.00	0.02	0.00	0.02	7.11
1962	0.00	1.63	1.50	2.13	10.08	1.02	0.04	0.03	0.02	0.00	0.00	0.00	16.45
1963	0.36	0.00	0.21	0.54	3.75	3.15	2.29	0.53	0.01	0.00	0.00	0.46	11.30
1964	1.49	1.92	0.19	1.00	0.00	1.70	1.13	0.31	0.07	0.00	0.00	0.00	7.81
1965	1.64	2.41	1.63	0.84	0.51	1.59	2.87	0.00	0.00	0.10	0.12	0.00	11.71
1966	0.00	4.34	2.37	0.95	0.80	0.26	0.03	0.00	0.14	0.00	0.00	0.22	9.11
1967	0.00	2.10	2.88	2.90	0.39	2.57	3.68	0.21	0.26	0.00	0.00	0.36	15.35
1968	0.00	2.78	1.35	0.63	0.91	2.03	0.51	0.04	0.00	0.00	0.00	0.00	8.25
1969	1.95	1.05	1.58	7.47	6.92	0.45	1.36	0.00	0.00	0.00	0.00	0.06	20.84
1970	0.33	0.98	0.53	2.65	0.42	4.64	0.04	0.00	0.00	0.00	0.00	0.00	9.59
1971	0.00	3.45	3.46	0.77	0.09	0.25	1.02	0.74	0.00	0.00	0.00	0.04	9.82
1972	0.38	0.64	3.37	0.19	0.45	0.00	0.26	0.16	0.00	0.00	0.00	0.00	5.45
1973	0.53	3.56	1.73	4.92	5.44	3.20	0.00	0.05	0.00	0.00	0.00	0.16	19.59
1974	0.64	2.50	2.36	3.90	0.15	4.78	0.88	0.00	0.00	0.00	0.00	0.00	15.21
1975	1.87	0.13	4.05	0.04	3.22	2.39	0.75	0.00	0.00	0.00	0.00	0.00	12.45
1976	0.72	0.15	0.06	0.00	4.47	0.61	1.25	0.00	0.02	0.02	1.20	3.47	11.97
1977	1.37	0.32	0.55	2.48	0.02	1.59	0.05	2.09	0.00	0.00	0.00	0.04	8.51
1978	0.00	0.13	3.94	4.94	7.30	4.62	1.98	0.00	0.00	0.00	0.00	1.55	24.46
1979	0.00	1.10	1.29	4.02	3.04	2.65	0.16	0.07	0.00	0.00	0.00	0.18	12.51
1980	0.45	0.21	0.98	4.19	5.08	2.14	0.46	0.28	0.00	0.00	0.00	0.00	13.79
1981	0.00	0.00	1.19	3.57	3.79	3.77	0.49	0.00	0.00	0.00	0.00	0.00	12.81
1982	0.90	1.26	0.85	2.90	1.27	5.04	1.76	0.00	0.23	0.00	0.07	0.59	14.87
1983	1.27	3.67	1.21	5.52	5.43	3.82	2.24	0.02	0.00	0.00	0.27	1.41	24.86
1984	0.35	2.10	2.63	0.02	0.37	0.48	0.57	0.00	0.00	0.00	0.00	0.00	6.52
1985	0.60	1.93	2.91	0.98	0.85	1.38	0.04	0.00	0.00	0.00	0.00	0.04	8.73
1986	0.39	2.72	0.78	1.12	2.96	4.62	0.80	0.00	0.00	0.00	0.00	0.88	14.27
1987	0.00	0.44	1.29	1.26	1.15	3.45	0.35	0.02	0.03	0.00	0.00	0.00	7.99
1988	2.32	0.61	2.60	1.71	2.36	0.02	2.21	0.05	0.03	0.00	0.00	0.00	11.91
1989	0.00	0.75	3.87	0.21	0.59	0.62	0.08	0.06	0.00	0.00	0.00	0.57	6.75

PRECIPITATION IN INCHES

STATION NAME: SANTA MARIA CITY
 LOCATION: SANTA MARIA
 GAGE NO: SMC380
 ELEVATION: 224.0 FEET

BASE & MERIDIAN: SAN BERNARDINO
 TOWNSHIP: 10 NORTH
 RANGE: 34 WEST
 SECTION: 14

LONGITUDE: 34- 34-57-00
 LATITUDE: 120-2 120-26-0
 RECORD BEGAN: 1886

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1990	0.16	0.49	0.01	2.27	1.55	0.18	0.23	0.48	0.00	0.00	0.00	0.29	5.66
1991	0.00	0.19	0.43	1.03	2.05	8.38	0.27	0.00	0.08	0.00	0.03	0.00	12.46
1992	0.30	0.26	3.60	1.77	5.98	2.22	0.00	0.00	0.00	0.49	0.00	0.00	14.62
1993	0.51	0.00	2.53	5.56	3.97	3.92	0.00	0.17	0.05	0.00	0.00	0.00	16.71
1994	0.22	0.75	1.01	2.08	3.42	1.94	0.96	0.59	0.00	0.00	0.00	0.08	11.05
1995	0.48	1.43	0.50	8.72	1.85	6.95	0.25	0.64	0.76	0.00	0.00	0.00	21.58
SUM	71.03	133.13	234.75	306.57	280.20	269.00	106.97	35.15	7.52	1.78	3.37	26.06	1475.53
N	110	110	110	110	110	110	110	110	110	110	110	110	110
MEAN	0.65	1.21	2.13	2.79	2.55	2.45	0.97	0.32	0.07	0.02	0.03	0.24	13.41
MEAN for 1984-95 WATER YEARS													
	0.44	0.97	1.85	2.23	2.26	2.85	0.48	0.17	0.08	0.04	0.00	0.16	11.52
MAX	7.53	8.80	7.50	10.31	10.08	8.72	4.27	2.39	1.96	0.62	1.20	3.47	30.75
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.45
STD	0.97	1.36	1.69	2.25	2.13	1.94	1.00	0.50	0.24	0.08	0.15	0.56	4.92

PRECIPITATION IN INCHES

STATION NAME: SANTA MARIA HWY. MAINT. YARD
 LOCATION: SANTA MARIA
 GAGE NO: SMH400
 ELEVATION: 220.0 FEET

BASE & MERIDIAN: SAN BERNARDINO
 TOWNSHIP: 10 NORTH
 RANGE: 34 WEST
 SECTION: 14

LONGITUDE: 34-57-00
 LATITUDE: 120-26-00
 RECORD BEGAN: 1955

WATER YEAR	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	WATER YEAR TOTAL
1955	0.00	1.00	2.23	4.38	1.72	0.46	1.72	1.11	0.00	0.00	0.00	0.00	12.62
1956	0.00	1.63	5.07	2.98	0.63	0.00	2.18	0.61	0.00	0.00	0.00	0.00	13.10
1957	0.00	1.63	5.07	2.98	0.63	0.00	2.18	0.61	0.00	0.00	0.00	0.00	13.10
1958	0.69	0.00	0.84	2.54	1.88	1.01	1.19	1.12	0.27	0.00	0.00	0.00	9.54
1959	2.45	0.07	1.98	2.56	5.27	4.89	4.42	0.23	0.00	0.00	0.00	0.35	22.22
1960	0.00	0.00	0.45	3.70	4.40	1.00	2.21	0.00	0.00	0.00	0.00	0.00	11.76
1961	2.07	2.68	0.89	0.83	0.26	0.79	0.23	0.19	0.00	0.00	0.00	0.00	7.94
1962	0.00	1.77	1.76	2.46	10.41	1.08	0.00	0.00	0.05	0.00	0.00	0.00	17.53
1963	0.50	0.00	0.25	0.69	4.30	3.36	2.70	0.59	0.00	0.00	0.00	0.46	12.85
1964	1.54	2.08	0.18	1.24	0.00	1.77	1.13	0.37	0.10	0.00	0.00	0.12	8.53
1965	1.77	2.01	1.83	0.90	0.53	1.34	3.59	0.00	0.00	0.00	0.00	0.00	11.97
1966	0.06	4.66	2.57	1.24	0.86	0.43	0.07	0.00	0.00	0.00	0.00	0.21	10.10
1967	0.00	2.04	3.46	3.40	0.46	2.18	4.13	0.22	0.38	0.00	0.00	0.23	16.50
1968	0.00	2.09	1.78	0.74	1.21	2.02	0.65	0.00	0.00	0.00	0.00	0.00	8.49
1969	1.95	0.88	1.71	7.18	7.27	0.95	1.65	0.02	0.00	0.00	0.00	0.08	21.69
1970	0.25	1.05	0.44	2.69	0.53	3.98	0.04	0.00	0.04	0.00	0.00	0.00	9.02
1971	0.01	3.25	3.99	0.80	0.09	0.38	1.04	1.11	0.00	0.00	0.00	0.13	10.80
1972	0.30	0.57	2.99	0.27	0.32	0.00	0.29	0.03	0.02	0.03	0.00	0.00	4.82
1973	0.60	3.61	1.53	4.81	6.08	3.44	0.00	0.03	0.02	0.00	0.00	0.05	20.17
1974	0.53	2.33	3.12	4.20	0.15	4.33	1.79	0.00	0.00	0.00	0.00	0.00	16.45
1975	1.22	0.23	4.47	0.17	3.50	3.17	0.92	0.00	0.00	0.00	0.00	0.00	13.68
1976	1.02	0.33	0.18	0.00	4.11	1.22	1.16	0.03	0.05	0.03	1.15	3.30	12.58
1977	0.57	0.35	0.66	2.23	0.06	1.54	0.06	2.41	0.03	0.00	0.01	0.06	7.98
1978	0.00	0.18	4.31	5.54	7.78	5.87	2.63	0.00	0.00	0.00	0.00	1.69	28.00
1979	0.00	1.23	1.10	3.93	4.22	3.18	0.06	0.11	0.00	0.00	0.00	0.27	14.10
1980	0.60	0.40	1.29	4.37	5.76	1.92	0.56	0.29	0.00	0.00	0.00	0.00	15.19
1981	0.00	0.00	1.30	3.66	2.54	5.47	0.47	0.00	0.00	0.00	0.00	0.00	13.44
1982	0.99	1.31	0.84	2.95	1.18	3.81	3.25	0.00	0.15	0.00	0.32	0.50	15.30
1983	0.67	4.53	1.36	6.48	5.04	6.57	2.12	0.39	0.00	0.00	0.45	0.00	27.61
1984	1.23	2.53	2.69	0.12	0.59	0.51	0.75	0.00	0.00	0.00	0.00	0.00	8.42
1985	0.54	1.96	3.29	0.94	2.27	0.02	0.00	0.00	0.00	0.00	0.00	0.00	9.02
1986	0.43	3.35	0.87	0.90	3.55	5.29	1.30	0.00	0.00	0.00	0.00	0.90	16.59
1987	0.00	0.85	1.48	1.73	1.58	3.90	0.42	0.00	0.00	0.00	0.00	0.00	9.96
1988	2.06	1.46	3.18	1.75	2.00	0.47	2.76	0.31	0.01	0.00	0.00	0.00	14.00
1989	0.00	0.81	4.04	0.52	0.92	0.83	0.23	0.10	0.00	0.00	0.00	0.41	7.86
1990	0.23	0.50	0.00	2.50	1.91	0.20	0.12	0.30	0.00	0.00	0.00	0.30	6.06
1991	0.00	0.20	0.95	1.26	1.80	12.50	0.00	0.00	0.00	0.00	0.00	0.00	16.71
1992	0.50	0.04	3.80	2.15	6.05	2.85	0.00	0.00	0.00	0.75	0.00	0.75	16.89
1993	0.66	0.03	2.57	5.52	4.57	3.73	0.03	0.15	0.00	0.00	0.00	0.00	17.26
SUM	23.44	53.64	80.52	97.31	106.43	96.46	48.05	10.33	1.12	0.81	1.93	9.81	529.85
N	39	39	39	39	39	39	39	39	39	39	39	39	39
MEAN	0.60	1.38	2.06	2.50	2.73	2.47	1.23	0.26	0.03	0.02	0.05	0.25	13.59
MAX	2.45	4.66	5.07	7.18	10.41	12.50	4.42	2.41	0.38	0.75	1.15	3.30	28.00
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.82
STD	0.69	1.26	1.43	1.82	2.52	2.45	1.24	0.47	0.08	0.12	0.20	0.59	5.26

PRECIPITATION IN INCHES

STATION NAME: UNION OIL BATTLES PLANT
 LOCATION: SANTA MARIA
 GAGE NO: UBA410
 ELEVATION: 255.0 FEET

BASE & MERIDIAN: SAN BERNARDINO
 TOWNSHIP: 10 NORTH
 RANGE: 33 WEST
 SECTION: 20

LONGITUDE: 34-56-00
 LATITUDE: 120-24-00
 RECORD BEGAN: 1953

WATER YEAR													WATER YEAR TOTAL
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1953	0.18	3.42	4.03	1.01	0.00	0.55	0.82	0.13	0.00	0.03	0.00	0.00	10.17
1954	0.00	2.04	0.24	3.60									
1955	0.00	0.94	2.31	4.59	1.41	0.32	2.26	0.26	0.00	0.00	0.00	0.00	12.09
1956	0.00	1.69	4.80	2.69	0.60	0.00	2.41	0.62	0.00	0.00	0.00	0.00	12.81
1957	0.93	0.00	0.40	2.15	2.22	0.49	1.09	0.90	0.18	0.00	0.00	0.10	8.46
1958	2.14	0.41	1.66	2.91	5.46	3.85	3.59	0.15	0.00	0.00	0.00	0.62	20.79
1959	0.00	0.27	0.17	1.45	4.28	0.00	0.00	0.30	0.00	0.00	0.00	0.28	6.75
1960	0.00	0.00	0.41	3.47	4.16	1.00	1.78	0.02	0.00	0.00	0.00	0.00	10.84
1961	1.97	2.79	0.88	0.79	0.16	0.38	0.00	0.00	0.00	0.00	0.00	0.00	6.97
1962	0.00	1.81	1.83	2.07	9.06	0.92	0.04	0.02	0.00	0.00	0.00	0.00	15.75
1963	0.47	0.00	0.30	1.06	3.12	3.06	2.72	0.39	0.03	0.00	0.00	0.58	11.73
1964	1.28	1.79	0.10	1.26	0.00	1.56	1.05	0.28	0.06	0.00	0.11	0.00	7.49
1965	1.52	2.01	1.42	0.75	0.36	1.46	3.66	0.00	0.00	0.00	0.00	0.00	11.18
1966	0.00	4.20	2.88	1.18	0.84	0.32	0.03	0.00	0.00	0.11	0.00	0.18	9.74
1967	0.02	1.87	3.22	3.39	0.36	2.48	3.79	0.00	0.00	0.00	0.00	0.00	15.13
1968	0.00	2.87	1.38	0.68	1.18	2.09	0.61	0.02	0.00	0.00	0.00	0.00	8.83
1969	1.95	1.04	1.42	7.77	7.02	0.38	0.00	0.00	0.00	0.00	0.00		
1970					0.69	3.40						0.00	
1971	0.01	3.13	3.73	0.49	0.07	0.39	1.07	0.82	0.00	0.00	0.00	0.03	9.74
1972	0.08	0.78	2.74	0.22	0.04	0.00	0.22	0.15	0.00	0.00	0.00	0.00	4.23
1973	0.31	4.22	1.69	4.84	5.95	3.29	0.00	0.02	0.01	0.00	0.00	0.07	20.40
1974	0.42	2.64	2.89	4.60	0.11	4.66	1.05	0.00	0.00	0.00	0.00	0.00	16.37
1975	1.12	0.13	4.60	0.02	3.43	3.39	1.14	0.00	0.00	0.00	0.00	0.00	13.83
1976	0.72	0.30	0.06	0.00	4.40	1.34	1.22	0.00	0.08	0.00	1.80	3.69	13.61
1977	0.77	0.16	0.90	1.93	0.00	1.72	0.00	2.26	0.00	0.00	0.00	0.05	7.79
1978	0.00	0.00	4.06	5.09	7.17	5.45	1.94	0.00	0.00	0.00	0.00	1.73	25.44
1979	0.00	1.13	1.31	3.28	3.65	3.42	0.11	0.08	0.00	0.00	0.00	0.26	13.24
1980	0.63	0.47	1.50	4.91	5.44	1.77	0.47	0.23	0.00	0.03	0.00	0.00	15.45
1981	0.00	0.00	1.70	3.67	2.38	5.27	0.49	0.00	0.00	0.00	0.00	0.00	13.51
1982	0.83	1.41	1.19	2.58	0.79	4.67	3.10	0.00	0.00	0.00	0.22	0.00	14.79
1983	1.64	3.81	1.47	6.38	5.90	4.46	2.21	0.39	0.00	0.00	0.00	0.00	26.26
1984	0.00	2.32	2.65	0.09									
1985												0.01	
1986	0.38	3.18	0.58	0.98	4.21	5.36	0.77	0.00	0.00	0.00	0.00	0.94	16.40
1987	0.00	0.46	1.43	1.46	1.49	3.76	0.75	0.00	0.00	0.00	0.00	0.00	9.35
1988	1.74	0.81	3.37	1.78	1.81	0.45	2.67	0.12	0.00	0.00	0.00	0.01	12.76
1989	0.00	0.86	4.18	0.56	0.88	0.75	0.06	0.06	0.00	0.00	0.00	0.72	8.07
1990	0.22	0.41	0.00	2.48	1.65	0.22	0.19	0.48	0.00	0.00	0.00	0.35	6.00
1991	0.00	0.20	0.40	1.09	1.15	8.94	0.21	0.00	0.04	0.00	0.03	0.00	12.06
1992	0.37	0.28	2.81	1.70	5.73	1.73	0.00	0.00	0.00	0.72	0.00	0.00	13.34
1993	1.31	0.00	2.58	6.11	3.19	3.80	0.05	0.16	0.00	0.00	0.00	0.00	17.20
SUM	21.01	53.85	73.29	95.08	100.36	87.10	41.57	7.86	0.40	0.89	2.16	9.62	458.57
N	39	39	39	39	38	38	37	37	37	37	37	38	36
MEAN	0.54	1.38	1.88	2.44	2.64	2.29	1.12	0.21	0.01	0.02	0.06	0.25	12.74
MAX	2.14	4.22	4.80	7.77	9.06	8.94	3.79	2.26	0.18	0.72	1.80	3.69	26.26
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.23
STD	0.67	1.29	1.37	1.92	2.43	2.04	1.17	0.41	0.03	0.12	0.29	0.66	4.95

PRECIPITATION IN INCHES

STATION NAME: UNION OIL CO. GUADALUPE
 LOCATION: GUADALUPE OIL FIELD
 GAGE NO: UGU407
 ELEVATION: 40.0 FEET

BASE & MERIDIAN: SAN BERNARDINO
 TOWNSHIP: 10 NORTH
 RANGE: 36 WEST
 SECTION: 35

LONGITUDE: 34-59-00
 LATITUDE: 120-38-00
 RECORD BEGAN: 1958

WATER YEAR													WATER YEAR
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
1958	1.27	0.24	2.39	1.54	4.63	5.77	4.44	0.18	0.00	0.00	0.00	0.67	21.13
1959	0.00	0.26	0.16	3.42	4.09	0.01	0.52	0.00	0.00	0.00	0.00	0.55	9.01
1960	0.00	0.00	0.51	2.83	4.90	0.46	2.75	0.01	0.00	0.00	0.00	0.00	11.46
1961	0.95	3.65	0.92	0.99	0.20	0.79	0.27	0.20	0.00	0.09	0.04	0.03	8.13
1962	0.00	1.94	1.16	2.14	7.45	1.35	0.16	0.13	0.02	0.00	0.00	0.00	14.35
1963	0.67	0.00	0.63	0.92	3.32	4.16	2.42	0.34	0.02	0.00	0.06	0.32	12.86
1964	1.22	1.94	0.15	2.40	0.00	2.72	0.00	0.45	0.06	0.10	0.16	0.35	9.55
1965	1.17	2.02	2.63	1.49	0.41	1.43	2.38	0.00	0.00	0.00	0.00	0.00	11.53
1966	0.00	5.14	2.70	1.67	0.74	0.27	0.00	0.00	0.00	0.15	0.04	0.24	10.95
1967	0.00	2.22	2.33	2.87	0.50	3.27	4.65	0.33	0.00	0.00	0.00	0.29	16.46
1968	0.00	2.76	1.45	0.73	0.86	2.24	0.65	0.00	0.00	0.00	0.00	0.00	8.69
1969	2.23	0.80	1.64	7.79	7.75	0.43	1.85	0.00	0.00	0.00	0.00	0.00	22.49
1970	0.59	1.27	0.78	2.56	1.46	1.59	0.22	0.00	0.00	0.00	0.00	0.00	8.47
1971	0.22	3.00	4.53	1.26	0.20	0.40	0.88	0.92	0.00	0.00	0.00	0.11	11.52
1972	0.11	0.68	3.17	0.22	0.34	0.00	0.34	0.02	0.00	0.00	0.00	0.00	4.88
1973	0.77	4.32	1.19	4.22	4.44	3.32	0.00	0.00	0.00	0.00	0.00	0.00	18.26
1974	0.75	2.48	2.81	5.15	0.28	4.90	1.13	0.00	0.00	0.00	0.00	0.00	17.50
1975	1.42	0.10	4.12	0.24	3.20	2.21	1.14	0.00	0.00	0.00	0.00	0.00	12.43
1976	0.89	0.18	0.00	0.00	4.57	0.98	0.72	0.00	0.12	0.00	0.91	2.22	10.59
1977	0.22	1.52	1.90	0.87	0.06	1.94	0.00	2.15	0.00	0.00	0.00	0.00	8.66
1978	0.14	0.26	3.50	5.91	6.61	4.48	3.45	0.00	0.00	0.00	0.00	1.53	25.88
1979	0.00	2.07	1.10	5.18	3.67	3.98	0.05	0.10	0.00	0.00	0.00	0.50	16.65
1980	0.50	0.58	2.17	3.93	5.67	2.17	0.44	0.44	0.00	0.08	0.00	0.00	15.98
1981	0.00	0.00	1.05	2.69	2.37	6.58	0.42	0.00	0.00	0.00	0.00	0.00	13.11
1982	0.58	1.78	0.80	2.80	1.10	4.90	1.70	0.00	0.15	0.00	0.00	0.00	13.81
1983	0.27	3.84	0.20	5.89	5.29	4.73	1.71	0.00	0.00	0.00	0.40	0.95	23.28
1984	1.27	2.43	2.80	0.02	0.35	0.55	0.54	0.00	0.00	0.00	0.04	0.00	8.00
1985	0.00	2.68	1.40	3.02	1.16	8.33	0.13	0.00	0.00	0.00	0.00		
1986													
1987													
1988													
1989												0.75	
1990	0.35	0.40	0.01	2.42	1.00							0.22	
1991	0.00	0.15	0.62	1.19	1.86	8.63	0.44	0.00	0.17	0.00	0.05	0.06	13.17
1992	0.57	0.21	3.91	2.09	6.09	2.37	0.00	0.00	0.02	0.20	0.00	0.04	15.50
1993	0.51	0.03	2.82	5.18	4.82	3.19	0.06	0.39	0.03	0.00	0.00	0.00	17.03
SUM	16.67	48.95	55.55	83.63	89.39	88.15	33.46	5.66	0.59	0.62	1.70	8.83	411.33
N	32	32	32	32	32	31	31	31	31	31	31	32	30
MEAN	0.52	1.53	1.74	2.61	2.79	2.84	1.08	0.18	0.02	0.02	0.05	0.28	13.71
MAX	2.23	5.14	4.53	7.79	7.75	8.63	4.65	2.15	0.17	0.20	0.91	2.22	25.88
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.88
STD	0.55	1.41	1.26	1.92	2.40	2.31	1.28	0.41	0.04	0.05	0.17	0.49	4.96

**APPENDIX C
GEOLOGIC SETTING,
DETERMINING HYDRAULIC PROPERTIES,
AND SPECIFIC YIELD VALUES**

APPENDIX C GEOLOGIC SETTING

During the last 20 years, a comprehensive sequence of earth science investigations has advanced the knowledge and understanding of the geologic and neotectonic¹ conditions in the Arroyo Grande-Nipomo Mesa area. Consequently, a more comprehensive and accurate understanding of the factors affecting groundwater conditions in the Santa Maria Groundwater Basin and adjacent bedrock areas can now be made.

The Arroyo Grande-Nipomo Mesa study area lies within a west-northwest-trending geomorphically and structurally distinct region of the southern central coastal area of California that is markedly discordant with the adjoining north-northwest-trending Coast Ranges Geomorphic Province to the northeast and the west-trending transverse Ranges Geomorphic Province to the south (Figure C1). Complex interplate activity between the North American and Pacific Plates within the tectonically mobile San Andreas Transform belt along California's continental margin has formed this triangular-shaped transition zone, which is the primary active element in translating motion from the Coast Ranges to the Transverse Ranges (Feigl et al., 1990). This area, named the Santa Maria Fold and Thrust Belt (SMFTB) by Nitchman (1988), does not belong to the Coast Ranges Geomorphic Province, as commonly perceived.

Two temporally distinct tectonic regimes have operated during Cenozoic² time in the SMFTB: (1) a late Oligocene to late Miocene phase characterized by right lateral strike-slip faulting, with concurrent subsidence of fault-bounded blocks forming marine depositional basins (Hall, 1978, 1981; Blake et al., 1978; Stanley and Surdam, 1984); followed by late Miocene to early Pliocene continued strike-slip faulting, but with shortening between faults, forming large-scale folds (Hall, 1978, 1981; Stanley and Surdam, 1984); and (2) late Pliocene to Holocene, north-northeast crustal shortening accommodated by a new generation of parallel west-northwest-striking reverse and thrust faults and folds, and emergence of coastal Central California (Nitchman, 1988; Clark et al., 1994; Vittori et al., 1994; Lettis et al., 1994).³

Stratigraphic-structural relations of the upper Miocene and Pliocene strata in the Pismo, Santa Maria, and Huasna Depositional Basins have provided evidence of a similar style and timing of deformation and have enabled researchers to reconstruct the late Cenozoic tectonic evolution of the area (Stanley and Surdam, 1984).

¹Post Miocene structures

²See Geologic Time Scale

³Luyendyk et al., 1980, and Hornafius, 1985, have alternatively explained basin development by localized extension resulting from Miocene and Pliocene clockwise rotation of the Transverse Ranges.

GEOLOGIC TIME SCALE

Relative Durations of Major Geologic Intervals	Era	Period	Epoch	Duration in Millions of Years (Approx.)	Millions of Years Ago (Approx.)
CENOZOIC	Cenozoic	Quaternary	<i>Recent</i> Approx. last 10,000 years		
MESOZOIC				Pleistocene	2
			Pliocene	3	5
			Miocene	18	23
			Oligocene	15	38
			Eocene	16	54
PALEOZOIC		Tertiary	Paleocene	11	65
	Mesozoic	Cretaceous	71	136	
		Jurassic	54	190	
		Triassic	35	225	
	Paleozoic	Permian	55	280	
		Pennsylvanian	45	325	
		Mississippian	20	345	
		Devonian	50	395	
		Silurian	35	430	
		Ordovician	70	500	
Cambrian		70	570		
PRECAMBRIAN	Precambrian		4,030	4,600	

(After: Eicher, 1976)

Formation of Earth's crust about 4,600 million years ago

DETERMINING HYDRAULIC PROPERTIES

Aquifer hydraulic tests provide in situ determinations of hydraulic properties. Both transmissivity and storativity can be determined from tests based on water level drawdown and recovery measurements versus time using various nonequilibrium flow equations based on Theis (1935). Through the relationship of $K = T/b^4$, hydraulic conductivity may also be calculated.

Aquifer hydraulic tests were not conducted for this study by the Department. However, several aquifer tests of wells had previously been conducted and analyzed by other agencies, consultants, or the Department. The hydraulic conductivity values determined from these tests are given in Table 19.

Pump efficiency tests and pumping-test data from drillers' reports not only provide information on the efficiency of the pump and the method of well construction, but also indirectly indicate the transmissivity and hydraulic conductivity of the aquifer material surrounding the well.

Data from these tests were used to compute specific capacity values. Using the specific capacity values, theoretical transmissivity values were empirically estimated employing the modified Thiem formula ($T = c \times 1,700$)⁵. From the transmissivity value and the saturated thickness penetrated by the well, an estimated value of hydraulic conductivity was derived using the formula given above. Values of hydraulic conductivity determined by this method are also given on Table 19.

It must be recognized that the calculations of transmissivity and hydraulic conductivity values from pump tests relate directly to the age, efficiency, condition, and design of the well and its perforations. This is because the key factor in the calculation is well drawdown(s). Wells that are old, have inefficient designs, contain precipitates or encrustation on perforations, or have limited open areas in their perforated intervals will have larger drawdowns, thus lower specific capacities, than wells with the opposite of such conditions.

To provide greater coverage of the groundwater basin and to serve as a comparative tool with the aquifer hydraulic tests and pump efficiency tests, values of hydraulic conductivity were estimated by correlating the lithology penetrated by selected wells as represented on drillers' reports with typical conductivity values of similar types of material from Figure 28. The various types of lithologic material described on the drillers' reports were assigned a range (low and high) of conductivity values. The values were weighted by the thickness of the material penetrated and then summed over the total saturated thickness to arrive at an estimated range of transmissivity values for the well. These values were divided by the entire saturated thickness penetrated by the

⁴K is hydraulic conductivity, T is transmissivity, and b is saturated thickness perforated by the well.

⁵ $T = c \times 1,700$, where T is transmissivity, c is tested specific capacity of the well, and 1,700 is a constant empirical factor. The factor 1,700 used in the modified Thiem formula in this study is based on studies of valley fill in California where it was found applicable for the type of well construction generally employed here (Thomasson et al., 1960, pp. 220-223).

well to arrive at an estimated range of average weighted hydraulic conductivity values for the well.

The thicknesses of the different deposits and formations penetrated by the wells were identified, thereby allowing the determination of estimated hydraulic conductivity values for the alluvium, the Paso Robles and Careaga Formations, and the Squire Member of the Pismo Formation. These values of hydraulic conductivity estimated by lithologic correlation are also presented on Table 19. The wide range in values estimated by the correlation method can be explained by the ranges for geologic materials seen on Figure 28.

Specific yield values representative for the drillers' terms compiled by the Department are given in Tables C1 and C2.

TABLE C-1 - SPECIFIC YIELD VALUES USED IN COASTAL PLAIN OF LOS ANGELES COUNTY, CALIFORNIA*

[After State Water Rights Board Revised Values of Specific Yield as used for San Fernando Valley Reference, 7-9-59, which is based on values used in Bulletin 45, Geology and Ground Water Storage Capacity of Valley FWH]

Note: Specific yield values above base of Bellflower aquiclude = 00

00 Percent—Bellflower Aquiclude		
03 percent—Clay and shale		
Adobe	Granite clay	Shale
Boulders in clay	Hard clay	Shaley clay
Cemented clay	Hard pan	Shell rock
Clay	Hard sandy shale	Silty clay loam
Clayey loam	Hard shell	Soapstone
Decomposed shale	Muck	
05 percent—Clayey sand and silt		
Chalk rock	Rotten conglomerate	Sediment
Clay and gravel	Rotten granite	Shaley gravel
Clayey sand	Sand and clay	Silt
Clayey silt	Sand and silt	Silty clay
Conglomerate	Sand rock	Silty loam
Decomposed granite	Sandstone	Silty sand
Gravelly clay	Sandy clay	Soil
Loam	Sandy silt	
10 percent—Cemented or tight sand or gravel		
Caliche	Dead gravel	Heavy rocks
Cemented boulders	Dead sand	Soft sandstone
Cemented gravel	Dirty pack sand	Tight boulders
Cemented sand	Hard gravel	Tight coarse gravel
Cemented sand and gravel	Hard sand	
14 percent—Gravel and boulders		
Cobbles and gravel	Heaving gravel	Silty sand
Coarse gravel	Heavy gravel	Tight fine gravel
Boulders	Large gravel	Tight medium gravel
Broken rocks	Rocks	Muddy sand
Gravel and boulders	Sand and gravel, silty	
16 percent—Fine sand		
Fine sand	Quicksand	Sand, gravel and boulders
Heaving sand	Sand and boulders	Tight sand
21-23 percent—Sand and gravel		
Dry gravel	Gravelly sand	Sand
Loose gravel	Medium gravel	Water gravel
26 percent—Coarse sand and fine gravel		
Coarse sand	Fine gravel	Medium sand

Value of one added to given value where streaks of sand or gravel occur in clay or clayey material.

* California Department of Water Resources, 1961, Planned utilization of the ground water basins of the coastal plain of Los Angeles County: California Dept. Water Resources Bull. 104, app. A, p. 121, Attachment 2, p. 2-3, 2-4.

TABLE C-2 - SPECIFIC YIELD VALUES OF WATER-BEARING SEDIMENTS IN
SAN LUIS OBISPO COUNTY, CALIFORNIA*

Material	Specific yield (percent)	
	Alluvium	Paso Robles formation
Soil, including silty clay.....	5	5
Clay, including adobe and hardpan.....	3	3
Clay and sand, including sandy silt.....	5	5
Clay and gravel.....	7	7
Sand.....	25	20
Tight sand, including cemented sand.....	18	15
Gravel, including gravel and sand.....	21	18
Tight gravel, including cemented gravel.....	14	13

* California Water Resources Board, 1958, Geology and ground water of San Luis Obispo County, California: California Water Resources Board, San Luis Obispo County Inv., app. B, p. 26-27.

**APPENDIX D
NET WATER DEMAND AND
PER CAPITA WATER USE**

D1

AM 01677

Net Water Demand

Table D1 depicts net water demand in the study area for 1975-2020 for urban, agricultural, environmental, and other categories. Net water demand is the sum of all applied water except that which returns for reuse. Total net water demand decreased by about 800 acre-feet (AF) from the 30,900 AF in 1975 to 30,100 AF in 1995. Year 2020 total net water demand is expected to increase about 8,600 AF over 1995 levels. The large increase in total net demand from 1995 to 2020 is attributable to increased urban demand of about 6,300 AF and increased environmental demand of 2,800 AF. Average annual decreases of about 40 AF for net water demand were realized in the 20-year period 1975-1995 and an average annual increase of about 345 AF of net water demand is expected between 1995 and 2020.

TABLE D1
NET WATER DEMAND IN STUDY AREA
Thousands of acre-feet

WATER DEMAND	1975	1980	1985	1990	1995	2000	2010	2020
URBAN	5.2	6.5	9.6	10.6	9.1	12.0	13.1	15.4
AGRICULTURE	24.7	23.4	21.0	19.7	19.9	20.1	19.4	19.3
ENVIRONMENTAL	0.0	0.0	0.0	0.0	0.0	2.8	2.8	2.8
OTHER	1.0	1.0	1.1	1.1	1.1	1.1	1.2	1.2
TOTAL	30.9	30.9	31.7	31.4	30.1	36.0	36.5	38.7

Note: All values rounded to the nearest 100 acre-feet.

Per Capita Water Use

Per capita water use varies throughout the study area both temporally and spatially. Per capita water use data for the larger population centers were collected and analyzed to determine past, present, and future values. Water year values range from 106 gallons per capita per day in the Guadalupe HA in 1995 to 379 gallons per capita per day in the Nipomo Mesa HSA in 1990. Table D2 depicts per capita water use for 1975-2020 by hydrologic area and hydrologic subarea. Per capita water use data for the major water agencies in the study area were weighted by population to determine the per capita water use by hydrologic area and hydrologic subarea. The maximum per capita water use for each hydrologic area and hydrologic subarea was attained in either 1985 or 1990, with rates steadily declining through 1995. Projections indicate that, in general, per capita rates will increase through 2000; however, the increases are not expected to reach the maximums attained in 1985 and 1990.

Values for per capita water use shown in Table D2 account for past, present, and future urban water conservation. The values have been adjusted by the Department's Land and Water Use

TABLE D2
PER CAPITA WATER USE

Water Year	Pismo/Oceano HSA		Nipomo Mesa HSA		Guadalupe HA	
	GPCD*	AFPCA**	GPCD	AFPCA	GPCD	AFPCA
1975	131	0.147	229	0.257	119	0.134
1980	153	0.171	269	0.302	113	0.126
1985	194	0.217	339	0.380	133	0.150
1990	174	0.195	379	0.425	139	0.156
1995	146	0.164	251	0.282	106	0.119
2000	170	0.190	300	0.336	127	0.143
2010	154	0.173	246	0.275	115	0.129
2020	154	0.173	246	0.275	115	0.129

*GPCD - Gallons Per Capita Per Day

**AFPCA - Acre Feet Per Capita Annually

staff to account for the area's water conservation measures that are currently in effect and those expected to be in the future.

Urban Net Demand

Urban net water demand for 1975-2020 is shown in Table D3. Urban net water demand was obtained by subtracting from the applied water demand the amount of water that was reusable (such as that which percolated to the groundwater basin). It is, in other words, the amount of applied water that was lost by evapotranspiration, percolation to saline sinks, flow to the ocean, or evaporation. Total urban net water demand increased by about 3,900 AF from the 5,200 AF in 1975 to 9,100 AF in 1995. Year 2020 urban net water demand is expected to increase 6,300 AF over 1995 levels. An average annual increase in urban net water demand of 195 AF was realized in the 20-year period 1975-1995. Average annual urban net water demand is projected to increase by over 250 AF between 1995 and 2020. Population increases of 51 and 59 percent during the 1975 through 1995 and 1995 through 2020 periods account for the increased urban net water demand, respectively.

Agricultural Net Demand

Agricultural net water demand by hydrologic area and hydrologic subarea for 1975-2020 is shown in Table D4. Agricultural net water demand depicted in Table D4 represents the amount of water that was needed to meet all agricultural requirements. Agricultural net water demand decreased

TABLE D3
URBAN NET WATER DEMAND
Thousands of acre-feet

Hydrologic Area/Subarea	1975	1980	1985	1990	1995	2000	2010	2020
Pismo/Oceano HSA	3.8	4.6	6.8	7.0	6.2	7.8	8.3	9.4
Nipomo HSA	1.2	1.7	2.4	3.1	2.5	3.6	4.2	5.3
Guadalupe HA	0.2	0.2	0.4	0.5	0.4	0.6	0.6	0.7
Total Study Area	5.2	6.5	9.6	10.6	9.1	12.0	13.1	15.4

Note: All values rounded to the nearest 100 acre-feet.

by almost 25 percent from the 24,700 AF in 1975 to 19,900 AF in 1995. Year 2020 agricultural net water demand is expected to decrease about 600 AF from 1995 levels. The reduction in demand for the two periods is attributable to a reduction in crop acres and increased irrigation efficiency.

Values for agricultural net water demand shown in Table D4 account for past, present, and future agricultural water conservation. The values have been adjusted by the Department's Land and Water Use staff to account for the area's water conservation measures that are currently in effect and those expected to be in the future.

Environmental Net Demand

Environmental net water demands are assumed to be equal to applied amounts shown in Table 2 of Chapter III. San Luis Obispo County is studying requirements for water to be released for steelhead trout to Arroyo Grande Creek below Lopez Dam. Until the study is complete, it is making proposed annual releases of 2,800 AF from Lopez Reservoir for maintaining steelhead habitat. Releases of 2,800 AF began in the fall of 1998 and are expected to continue indefinitely. They are included in the Pismo/Oceano HSA numbers for 2000, 2010 and 2020 in Table D5.

Other Net Demand

The other net water demand category consists of conveyance losses, cooling, miscellaneous, and recreational water demands. Table D5 lists net other water demands by hydrologic area and hydrologic subarea for the study area for 1975-2020. Water demand for this category increased by about 90 AF from the 1,030 AF in 1975 to 1,120 AF in 1995, mostly attributable to increased use at recreational facilities. Year 2020 other net water demand is expected to increase about 2,800 AF over 1995 levels. Environmental net demand of 2,800 AF makes up the largest portion of the increase between 1995 and 2020 with increased use of the area's recreational facilities responsible for about 50 AF of the expected increase. Increased Lopez Reservoir deliveries to

TABLE D4
 AGRICULTURAL NET WATER DEMAND
 Thousands of acre-feet

Hydrologic Area/Subarea	1975	1980	1985	1990	1995	2000	2010	2020
Pismo/Oceano HSA*	7.5	7.5	6.9	7.1	7.2	7.2	7.0	6.8
Nipomo Mesa HSA	1.2	1.4	1.6	1.5	1.5	1.5	1.5	1.5
Guadalupe HA	16.0	14.5	12.5	11.1	11.2	11.4	10.9	11.0
Study Area Total	24.7	23.4	21.0	19.7	19.9	20.1	19.4	19.3

Note: All values rounded to the nearest 10 acre-feet.

*The irrigated cropped acres in Pismo HSA for 1975: 7.9, 1985: 26.69, 1985: 0.0. Demand associated with these acreages amounts to less than 100 AF and the demand for the two HSA's were combined.

TABLE D5
 OTHER NET WATER DEMAND*
 Thousands of acre-feet

Category	1975	1980	1985	1990	1995	2000	2010	2020
Pismo/Oceano HSA**	0.05	0.05	0.09	0.09	0.09	2.90	2.92	2.94
Nipomo Mesa HSA	0.95	0.95	0.96	0.96	0.97	0.97	0.97	0.98
Guadalupe HA	0.03	0.04	0.04	0.05	0.06	0.06	0.07	0.08
Study Area Total	1.03	1.04	1.09	1.10	1.12	3.93	3.96	4.00

Note: All values rounded to the nearest acre-foot.

* Values for 2000, 2010 and 2020 are estimated based on historical trends.

** Values for 2000, 2010 and 2020 include 2,800 AF of environmental net demand.

contractors resulting in increased conveyance losses, increased cooling requirements, and increased miscellaneous uses account for the remainder of the increase from 1995 through 2020. The recreational water demand at Lopez Lake is not included in this study because it is considered part of the natural supply of Lopez Reservoir and so does not enter into any of this study's calculations.

**APPENDIX E
STREAM GAGING DATA AND
ESTIMATED HISTORIC UNIMPAIRED RUNOFF**

STREAM GAGING DATA FOR ARROYO GRANDE CREEK AND TRIBUTARIES

STATION NAME	ARROYO GRANDE CREEK AT ARROYO GRANDE	LOPEZ CREEK NEAR ARROYO GRANDE	TAR SPRING CREEK NEAR ARROYO GRANDE	WITTENBERG CREEK NEAR ARROYO GRANDE	LOS BERROS CREEK NEAR NIPOMO	ARROYO GRANDE CK ABOVE PHOENIX CK, NEAR ARROYO GRANDE
GAGE NO:	11141500	11141280	11141400	11141150	11141600	11141150
ELEVATION, FEET:	98	580	180	560	312	560
LATITUDE (DD-MM-SS):	35-07-28	35-14-08	35-07-56	35-13-02	35-05-17	35-11-19
LONGITUDE (DDD-MM-SS):	120-34-05	120-28-17	120-32-30	120-27-17	120-30-32	120-26-03
RECORD BEGAN (WATER YEAR):	1947	1968	1968	1968	1968	1968
DRAINAGE AREA (SQ. MI.):	102	21	18	3	15	13
WATER YEAR	STREAM DISCHARGE IN ACRE-FEET					
1947	3,480					
1948	1,790					
1949	2,680					
1950	4,860					
1951	3,887					
1952	36,758					
1953	9,897					
1954	7,112					
1955	4,324					
1956	17,320					
1957	3,320					
1958	48,750					
1959	5,770					
1960	4,310					
1961	1,999					
1962	19,260					
1963	5,710					
1964	2,320					
1965	5,630					
1966	5,030					
1967	36,960					
1968	3,750	3,110	170	50	20	980
1969	24,016	24,997	10,178	3,131	4,990	7,825
1970	6,565	4,616	797	326	530	1,482
1971	4,510	3,890	660	300	500	1,110
1972	3,300	1,908	131	106	90	607
1973	10,690	12,218	2,133	1,332	2,810	1,663
1974	18,020	8,910	3,210	920	1,870	1,790
1975	4,010	4,696	883	N/A	730	1,039
1976	2,940	1,810	310	N/A	270	780
1977	2,570	1,370	70	N/A	200	570
1978	23,030	15,100	7,530	N/A	3,920	4,850
1979	4,940	4,400	1,180	N/A	630	1,390
1980	22,850	12,618	N/A	N/A	1,590	3,630
1981	4,560	6,420	N/A	N/A	830	1,790
1982	10,130	8,430	N/A	N/A	790	2,360
1983	92,070	26,980	N/A	N/A	6,660	5,220
1984	10,050	6,480	N/A	N/A	1,080	1,750
1985	2,750	3,780	N/A	N/A	330	810
1986	9,110	10,030	N/A	N/A	560	4,590
1987	2,210	3,390	N/A	N/A	30	870
1988	1,950	2,840	N/A	N/A	0	670
1989	2,600	2,430	N/A	N/A	0	600
1990	2,120	1,440	N/A	N/A	0	360
1991	5,010	2,769	N/A	N/A	910	512
1992	5,130	3,559	N/A	N/A	320	E 1317
1993	9,010	8,469	N/A	N/A	1,060	N/A
1994	2,160	2,598	N/A	N/A	0	N/A
1995	18,110	14,304	N/A	N/A	1,020	N/A
SUM	537,329	203,561	27,250	6,165	31,740	48,565
N	49	28	12	7	24	25
MEAN	10,966	7,270	2,271	881	1,134	1,943
WATER YEARS 1984-95	5,851	5,174	N/A	N/A	443	N/A
MAX	92,070	26,980	10,176	3,131	6,660	7,825
MIN	1,790	1,370	70	50	0	360
STD	15,360	6,506	3,117	1,014	1,583	1,819

N/A - DATA NOT AVAILABLE
E - VALUES ESTIMATED

STREAM DISCHARGE DATA FOR PISMO CREEK

STATION NAME : PISMO CREEK AT
PISMO BEACH

GAGE NO: NONE

ELEVATION, FEET: 18.0 e

LATITUDE (DD-MM-SS): 35-08-33

LONGITUDE (DDD-MM-SS): 120-37-58

RECORD BEGAN (WATER YEAR): 1990

DRAINAGE AREA (SQ. MI.): 25.00

e - ESTIMATED FROM USGS PISMO BEACH QUADRANGLE (1978)

YEAR	MONTH	STREAM DISCHARGE IN ACRE-FEET
1990	OCT	N/A
1990	NOV	N/A
1990	DEC	N/A
1990	JAN	19
1990	FEB	34
1990	MAR	22
1990	APR	2
1990	MAY	N/A
1990	JUN	N/A
1990	JUL	N/A
1990	AUG	N/A
1990	SEP	N/A
1991	OCT	N/A
1991	NOV	N/A
1991	DEC	N/A
1991	JAN	N/A
1991	FEB	7
1991	MAR	1982
1991	APR	38
1991	MAY	7
1991	JUN	2
1991	JUL	2
1991	AUG	1
1991	SEP	1
1992	OCT	N/A
1992	NOV	N/A
1992	DEC	39
1992	JAN	148
1992	FEB	4084
1992	MAR	263
1992	APR	78
1992	MAY	25
1992	JUN	3
1992	JUL	1
1992	AUG	N/A
1992	SEP	N/A
SUM		6760
N		21
MEAN		322
MAX		4084
MIN		0
STD		940

N/A - DATA NOT AVAILABLE

STREAM GAGING DATA FOR SANTA MARIA RIVER AND TRIBUTARIES

STATION NAME	BRADLEY DITCH NEAR DONAVAN ROAD AT SANTA MARIA	SANTA MARIA RIVER AT GUADALUPE	S'SQUOC RIVER NEAR GARY	CUYAMA RIVER BELOW TWITCHELL DAM
GAGE NO:	11140600	11141000	11140000	11138100
ELEVATION, FEET	225	85	355	402
LATITUDE (DD-MM-SS):	35-00-42	34-58-35	34-53-38	34-56-40
LONGITUDE (DOD-MM-SS):	120-18-43	120-34-15	120-18-20	120-17-30
RECORD BEGAN (WATER YEAR):	1971	1940	1942	1959
DRAINAGE AREA (SQ. MI):	----	1741	471	1132
WATER YEAR	STREAM DISCHARGE IN ACRE-FEET			
1941		183,290		
1942		1,080	15,660	
1943		71,910	66,320	
1944		13,580	37,810	
1945		4,990	18,970	
1946		4,880	8,520	
1947		2,530	2,230	
1948		0	N/A	
1949		0	90	
1950		2,480	1,200	
1951		0	N/A	
1952		112,780	73,730	
1953		380	5,170	
1954		1,270	9,910	
1955		0	610	
1956		4,200	8,360	
1957		0	90	
1958		133,550	99,220	
1959		0	2,410	4300
1960		0	50	1060
1961		0	560	20
1962		24,280	48,440	58580
1963		0	280	2430
1964		0	N/A	1870
1965		0	3,190	3010
1966		930	9,870	5350
1967		32,040	95,450	75100
1968		100	3,280	44190
1969		179,660	287,780	149180
1970		780	5,180	111320
1971	340	0	3,930	5730
1972	280	0	1,020	0
1973	1,570	9,990	38,520	42190
1974	820	210	5,810	33330
1975	630	310	8,180	5820
1976	520	0	390	0
1977	390	10	60	0
1978	2,400	49,870	108,230	82630
1979	N/A	2,230	28,360	122560
1980	1,350	21,180	85,950	109990
1981	1,110	550	8,540	10280
1982	1,110	320	14,900	26580
1983	2,520	151,390	231,800	91830
1984	980	3,570	8,550	
1985	870	0	N/A	
1986	1,280	3,570	25,160	
1987	1,150	10	N/A	
1988	1,140	N/A	3,820	
1989	412	N/A	N/A	
1990	470	N/A	N/A	
1991	1,140	N/A	33,020	
1992	1,270	N/A	41,950	
1993	N/A	N/A	182,210	
1994	N/A	N/A	4,140	
1995	N/A	N/A	216,810	
SUM	21,552	1,017,840	1,847,310	986910
N	22	47	54	25
MEAN	980	21,656	34,209	39478
WATER YEARS 1984-95	N/A	N/A	64,433	N/A
MAX	2,520	183,290	287,780	149180
MIN	0	0	0	0
STD	619	47,807	62,870	45992

N/A - DATA NOT AVAILABLE

E4

AM 01685

ESTIMATED UNIMPAIRED RUNOFF WATER YEARS 1895 TO 1947*
SANTA MARIA RIVER AND ARROYO GRANDE CREEK

WATER YEAR	SANTA MARIA RIVER	ARROYO GRANDE
	AT MOUTH	CREEK AT ARROYO GRANDE
	STREAM DISCHARGE IN ACRE-FEET	
1895	206,400	52,200
1896	8,700	6,200
1897	79,800	20,600
1898	100	1,100
1899	100	3,100
1900	500	4,200
1901	164,600	43,000
1902	2,400	5,100
1903	58,300	15,000
1904	24,400	8,100
1905	205,000	51,900
1906	161,100	42,100
1907	356,700	76,200
1908	158,700	41,600
1909	277,800	64,700
1910	125,600	33,100
1911	273,600	63,900
1912	45,600	12,000
1913	41,700	11,300
1914	278,200	64,700
1915	219,400	54,600
1916	167,000	43,500
1917	111,700	29,100
1918	190,400	48,900
1919	400	4,200
1920	49,900	13,000
1921	100	3,100
1922	142,300	37,200
1923	2,400	5,100
1924	100	1,100
1925	100	2,100
1926	72,400	22,900
1927	96,500	29,400
1928	27,100	8,500
1929	100	3,200
1930	3,500	2,100
1931	4,300	800
1932	108,000	32,500
1933	15,800	5,700
1934	10,700	7,300
1935	40,200	1,500
1936	43,300	11,000
1937	156,600	39,300
1938	214,500	51,700
1939	21,300	8,800
1940	16,500	9,000
1941	307,800	66,500
1942	40,900	21,500
1943	144,700	45,700
1944	71,100	15,500
1945	37,500	12,000
1946	20,300	5,500
1947	10,100	3,500
SUM	4,816,300	1,265,900
N	53	53
MEAN	90,874	23,885
MAX	356,700	76,200
MIN	100	800
STD	95,727	21,810

*From California State Water Resources Board, Bulletin No. 1

**APPENDIX F
WATER QUALITY GUIDELINES FOR AGRICULTURE
AND SELECTED WATER QUALITY DATA**

WATER QUALITY GUIDELINES FOR AGRICULTURE*

Constituent	Unit	Suitability for Irrigation			Specific Crops Affected
		Suitable	Marginal	Unsuitable	
Electrical Conductivity	µmhos/cm	< 750	750-3,000	> 3,000	
Total Dissolved Solids	mg/L	< 500	500-2,000	>2,000	
Boron	mg/L	< 0.50	0.50-2.00	> 2.00	Fruit and citrus trees 0.50-1.00 mg/L Field crops 1.00-2.00 mg/L Grasses > 2.00 mg/L
Chloride	mg/L	< 142	142-355	> 355	Tree crops and ornamentals: root adsorption Field and vegetable crops: foliar damage at 106 mg/L
Sodium Adsorption Ratio**	mg/L	< 3	3-9	> 9	Tree crops: root adsorption
Sulfate	mg/L	< 350	350-600	> 600	

*From: Ayers, R. S., 1977, Quality of water for irrigation: Journal of the Irrigation and Drainage Division, Proceedings of the American Society of Civil Engineers, vol. 163, no. IR2, p. 135-154; and McKee, J. E. and Wolfe, H. W., eds., 1963, Water Quality Criteria: California State Water Resources Control Board, Pub. No. 3-A, 548 p.

**Sodium Adsorption Ratio (SAR) is defined as:

$$SAR = \frac{Na}{[\frac{1}{2}(Ca+Mg)]^{1/2}}$$

Where Na, Ca, and Mg are the concentrations of sodium, calcium, and magnesium in milliequivalents per liter.

F2

AM 01688

APPENDIX F
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	FI mg/L	Total Hardness mg/L
32S/14E-19D03 M	640604	7.7	2750	2150	208	163	198		399	245	642	59.0	0.22	0.2	1190
32S/14E-19D01 M	610302	7.7	1225		126	69	58	1.0	372	259	60	12.0	0.13	0.2	598
32S/14E-19A01 M	640604	7.8	1020	724	66	80	59	1.0	370	165	50	8.4	0.13	0.2	494
32S/14E-19A01 M	741106	8.9	980	621	91	54	52	1.2	323	146	46	25.0	0.11	0.5	448
32S/14E-19A01 M	760927	8.0	1047	650	100	56	53	1.2	351	156	52	12.0	0.14	0.4	479
32S/14E-19A01 M	771013	8.0	1195	726	110	61	54	1.1	367	164	58	25.5	0.10	0.6	525
32S/14E-18P01 M	610302	7.5	1260		125	68	54	2.0	355	258	57	12.0	0.20	0.3	592
32S/14E-18F04 M	640604	7.7	1350	934	115	83	91		500	179	85	28.0	0.22	0.2	629
32S/14E-18F03 M	640604	7.5	1525	1084	110	116	105		570	205	106	50.0	0.40	0.2	752
32S/14E-17N02 M	610302	7.2	1150		75	79	47	1.0	407	102	60	15.0	0.23	0.2	512
32S/14E-08N01 M	640604	7.2	1783	1407	159	135	82	2.0	419	503	121	9.4	0.16	0.7	952
32S/14E-07K01 M	640604	7.0	1623	1210	145	103	90	8.0	404	403	123	14.0	0.24	0.7	786
32S/14E-07J01 M	640604	7.5	1372	976	112	86	94	3.0	396	263	105	7.2	0.24	0.7	634
32S/13E-34Q01 M	671030	7.7	841		38	20	89	1.0	46	22	106	195.0	0.16	0.1	177
32S/13E-34G02 M	640624	7.4	1650	1044	121	77	162	2.0	289	403	167	25.0	0.18	0.4	619
32S/13E-34G01 M	620823	7.1	1975	1706	240	120	71	1.0	300	730	144	0.0	0.14	0.6	1093
32S/13E-33M02 M	640618	8.1	1730	1444	208	117	67	2.0	461	481	74	93.0	0.10	0.6	1001
32S/13E-33M02 M	660718	8.0	1914	1411	212	105	61	2.0	347	501	85	138.0	0.08	0.8	962
32S/13E-33M02 M	670605	8.0	1713	1329	221	108	56	1.0	424	433	89	130.0	0.06	0.8	996
32S/13E-33M02 M	710602	8.2	1798		214	44	55	1.9	160	424	72	160.0	0.01	0.6	715
32S/13E-33K03 M	640604	7.9	1867	1524	229	116	74	2.0	465	510	105	62.0	0.08	0.9	1049
32S/13E-33K03 M	711022	8.2	2201	1693	253	133	79	1.8	403	606	126	160.0	0.09	0.6	1178
32S/13E-33K01 M	640604	7.4	1931	1599	240	126	74	3.0	482	540	110	71.0	0.08	0.8	1118
32S/13E-33G01 M	640604	7.5	1761	1385	226	105	69	3.0	438	498	100	50.0	0.09	0.8	997
32S/13E-33F01 M	640619	7.6	1370	934	90	113	55	3.0	387	288	53	46.0	0.17	0.2	690
32S/13E-33E03 M	640618	8.0	1360	1042	138	85	54	2.0	308	300	60	125.0	0.15	0.2	695
32S/13E-33Dx M	950419	7.3	1410	1000	161	71	52	2.6	369	310	69	27.4		0.4	694
32S/13E-33A03 M	640624	7.9	2000	1614	212	137	78	2.0	490	545	119	81.0	0.12	0.2	1093
32S/13E-32M04 M	660718	8.3	1207	773	138	65	43	2.0	361	231	60	24.0	0.05	0.4	612
32S/13E-32M03 M	871105	8.0	927	669	80	60	44	1.9	196	253	58	13.2	0.10	0.5	446
32S/13E-32M01 M	640707	8.1	1200	844	77	98	46	2.0	366	233	59	22.0	0.08	0.1	595
32S/13E-32L18 M	640218	8.0	1500	1144	154	86	89	4.0	399	288	123	85.0	0.14	0.1	738
32S/13E-32L14 M	640217	7.8	1120	774	107	61	76	5.0	347	216	75	21.0	0.09	0.2	518
32S/13E-32L08 M	640617	8.0	1007	637	114	58	33	2.0	364	148	39	1.2	0.11	0.3	523
32S/13E-32L05 M	640707	8.0	880	610	53	61	40	2.0	190	121	57	80.0	0.05	0.2	383
32S/13E-32L02 M	501111	7.5	1010	658	116	55	35	2.0	373	151	33	2.9	0.01		516
32S/13E-32L02 M	640707	8.1	1046	724	56	91	36	2.0	340	192	37	0.0	0.05	0.2	514
32S/13E-32L02 M	711026	7.7	1239	792	112	55	72	3.1	212	163	165	67.5	0.05	0.3	506
32S/13E-32H01 M	570305	8.2	1410		160	76	53	2.0	343	311	69	74.0	0.09	0.3	712

nd = nondetect

F3
AM 01689

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	Fi mg/L	Total Hardness mg/L
32S/13E-32H01 M	570829	7.7	1469	1032	150	75	57	2.0	323	299	75	82.5	0.50	0.2	684
32S/13E-32H01 M	580929	7.8	1317	975	158	73	57	2.0	299	280	90	126.0	0.14	0.5	695
32S/13E-32H01 M	590218	7.5	1315	1043	165	74	48	2.0	331	313	66	110.0	0.04	0.3	717
32S/13E-32H01 M	590922	7.0	1567	1146	171	82	59	2.0	346	346	61	125.0	0.34	0.4	764
32S/13E-32H01 M	601006	7.4	1355		133	63	57	1.0	285	259	73	67.0	0.05	0.5	591
32S/13E-32H01 M	611109	8.0	729	485	64	28	45	1.0	62	147	57	106.0	0.02	0.2	275
32S/13E-32H01 M	620823	7.3	1060	808	106	52	49	2.0	222			92.0	0.06	0.2	479
32S/13E-32H01 M	621015	7.4	1040	682	108	47	52	2.0	217	179	66	104.0	0.11	0.2	463
32S/13E-32H01 M	630926	7.3	1314	950	135	66	62	2.0	256	232	99	112.0	0.08	0.5	609
32S/13E-32H01 M	640604	7.7	1252	860	130	66	63	2.0	252	230	85	136.0	0.08	0.6	596
32S/13E-32H01 M	651007	8.2	828	540	79	37	43	2.0	164	166	52	42.0	0.04	0.5	349
32S/13E-32F15 M	671026	7.5	890	639	61	31	57	2.0	32	110	104	147.5	0.12	0.1	280
32S/13E-32E13 M	640219	7.3	940	656	86	63	35	2.0	332	178	32	0.0	0.09	0.1	474
32S/13E-32E02 M	640617	7.7	928	618	57	31	79	2.0	48	142	87	150.0	0.26	0.2	270
32S/13E-32D11 M	951128	7.6	1200	661	115	66	39	2.4	416	165	25	< 1.0		0.2	556
32S/13E-32D11 M	810407	7.3	878	776	113	50	59		413	143	39				486
32S/13E-32D11 M	811014	7.9	938	694	110	62	49		418	139	39				542
32S/13E-32D11 M	821018	7.7	1072	698	121	51	49		445	114	38				513
32S/13E-32D11 M	840827	7.8	1049	703	98	54	48		425	116	27				463
32S/13E-32D11 M	881128	7.1	1000	630	120	58	38	3.0	400	150	28	< 0.4		0.6	320
32S/13E-32D11 M	920714	7.2	1110	595	129	49	41	2.5	444	130	22	< 1.0		0.2	522
32S/13E-32D11 M	950718	7.6	1200	619	115	58	35	2.4	400	147	22	< 1.0		0.1	540
32S/13E-32D10 M	951205	7.6	1050	617	104	53	39	2.3	272	185	42	25.6		1.1	478
32S/13E-32D10 M	590909	7.2	960		107	52	33	2.0	333	140	42	19.0	0.00	0.5	483
32S/13E-32D10 M	601110	6.9	1030		121	49	35	2.2	358	169	33	3.5	0.05	0.2	504
32S/13E-32D10 M	620323	7.0	1052	644	120	43	40	3.2	346	171	33	2.0	0.31	0.2	483
32S/13E-32D10 M	620815	7.1	959	609	101	49	38	2.5	285	158	42	38.0	0.10	0.3	454
32S/13E-32D10 M	640425		863	572	94	44	34	2.1	248	143	44	40.0	0.28	0.3	417
32S/13E-32D10 M	640813	8.0	900	640	89	56	43	2.0	285	154	45	34.0	0.10	0.1	450
32S/13E-32D10 M	660204	7.7	915	587	91	40	39	3.0	208	137	51	71.0	0.12	0.1	392
32S/13E-32D10 M	740430	7.4	940	685	102	61	39		319	168	44	12.0		0.4	504
32S/13E-32D10 M	741205	7.8	867	661	93	60	38		312	173	60	13.1		0.6	479
32S/13E-32D10 M	751201	8.1	722	631	84	52	64		310	173	47	25.0		0.4	422
32S/13E-32D10 M	760602	7.5	727	545	139	30	43		259	167	49	42.1		0.2	470
32S/13E-32D10 M	770517	7.7	803	687	100	61	39		296	170	55	27.0		0.4	500
32S/13E-32D10 M	771211		1195	654	105	52	34		279	152	53	43.3		0.4	478
32S/13E-32D10 M	800401	7.4	910	662	42	83	40		282	167	43				328
32S/13E-32D10 M	811014	8.3	967	662	30	86	49		273	172	60				426
32S/13E-32D10 M	820414	7.4	1018	697	108	48	51		322	145	57				467

F4

AM 01690

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC	TDS	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	Ft mg/L	Total
			lab µmhos/cm	@180° mg/L					(CaCO3) mg/L						Hardness mg/L
32S/13E-32D10 M	831003	8.4	1007	702	25	88	42		284	167	38				425
32S/13E-32D10 M	840214	8.2	1115	669	31	95	41		334	179	36				468
32S/13E-32D10 M	890320	6.5	870	570	84	38	40	< 3.0	189	160	43	66.0		0.2	390
32S/13E-32D10 M	920714	7.3	830	484	75	37	46	2.2	192	132	38	57.9		0.2	340
32S/13E-32D10 M	950718	7.5	920	570	100	44	38	2.0	244	174	36	29.8		0.1	432
32S/13E-32D09 M	611003	7.3	1026	684	113	53	27	1.8	357	152	35	0.8	0.07	0.3	505
32S/13E-32D09 M	741108	8.5	844	535	60	52	32	2.0	176	205	40	0.8	0.02	0.4	367
32S/13E-32D04 M	591231	7.7	823	526	86	38	30	2.0	230	112	44	35.0	0.03	0.4	371
32S/13E-32D03 M	951128	7.6	940	594	96	46	45	2.2	232	185	46	33.4		0.2	430
32S/13E-32D03 M	590909	7.3	855		98	43	33	2.0	264	106	45	71.0	0.00	0.5	422
32S/13E-32D03 M	601110	7.1	863		104	36	34	2.0	262	120	41	41.0	0.11	0.2	408
32S/13E-32D03 M	620323	7.2	923		100	36	40	3.0	237	129	43	54.0	0.15	0.1	398
32S/13E-32D03 M	650728	8.1	866	561	83	38	35	2.0	162	130	53	89.0	0.06	0.3	364
32S/13E-32D03 M	660215	7.3	892	574	89	41	36	2.0	219	133	43	65.0	0.09	0.1	391
32S/13E-32D03 M	711029	7.9	840	561	86	39	40	2.1	199	150	51	48.0	0.03	0.3	375
32S/13E-32D03 M	740430	7.3	855	630	97	51	42		256	179	50	19.9		0.4	453
32S/13E-32D03 M	751201	8.2	752	629	90	47	58		240	170	32	51.4		0.3	415
32S/13E-32D03 M	760602	7.3	696	719	90	46	47		193	181	59	106.0		0.4	416
32S/13E-32D03 M	790823	8.1	833	665	64	61	40		211	161	63				409
32S/13E-32D03 M	800402	7.9	882	620	95	22	52		218	156	43				328
32S/13E-32D03 M	801008	7.9	884	629	85	45	46		210	148	57				396
32S/13E-32D03 M	810407	7.7	993	662	85	35	64		243	163	59				356
32S/13E-32D03 M	811014	8.3	887	626	34	71	51		253	164	49				396
32S/13E-32D03 M	820415	7.4	985	675	96	42	53		270	183	58				413
32S/13E-32D03 M	821018	7.7	953	636	93	37	52		230	165	56				383
32S/13E-32D03 M	830411	8.6	745	649	91	45	45		251	179	53				412
32S/13E-32D03 M	831003	8.6	992	674	19	83	49		250	180	43				389
32S/13E-32D03 M	840214	8.5	1088	656	47	79	46		275	181	43				441
32S/13E-32D03 M	881128	7	800	540	90	40	45	5.0	221	170	45	89.0		0.2	500
32S/13E-32D03 M	920714	7.3	840	483	75	37	44	2.2	186	134	38	60.0		0.2	338
32S/13E-32D03 M	950718	7.4	950	586	104	45	40	2.2	240	183	38	29.1		0.1	460
32S/13E-32D02 M	540919	7.6	813		87	38	28	2.0	258	111	39	23.6	0.00	0.2	374
32S/13E-32D02 M	590909	7.2	815		91	41	33	2.0	226	94	59	87.0	0.00	0.5	396
32S/13E-32D02 M	640425	7.2	752	527	81	39	34	2.0	188	124	53	55.0	0.11	0.3	363
32S/13E-32D02 M	660201	7.3	908	576	87	39	39	3.0	194	132	54	73.0	0.09	0.1	378
32S/13E-32D02 M	740430	7.7	895	684	103	52	39		310	167	43	15.0		0.4	471
32S/13E-32D02 M	741205	7.9	895	627	87	46	39		221	157	64	51.0		0.5	406
32S/13E-32D02 M	750603	7.6	736	730	93	56	40		310	170	46	4.8		0.3	629
32S/13E-32D02 M	760602	7.5	722	654	98	46	40		207	166	53	107.0		0.5	434

FS

AM 01691

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	FI mg/L	Total Hardness mg/L
32S/13E-32D02 M	771122		1300	910	86	44	33		203	140	50	54.5		0.2	393
32S/13E-32D02 M	790823	8.3	755	604	53	64	30		222	147	45				394
32S/13E-32D02 M	800402	7.5	830	616	53	65	45		207	164	67				399
32S/13E-32D02 M	801008	8.1	783	564	86	39	33		218	119	45				376
32S/13E-32D02 M	810407	7.7	1033	625	83	37	50		266	143	50				357
32S/13E-32D01 M	650728	7.9	885	528	83	38	39	2.0	163	131	59	89.0	0.04	0.3	364
32S/13E-32C02 M	640617	7.9	555	290	33	30	36	2.0	171	57	40	0.5	0.21	0.2	206
32S/13E-32A01 M	540611	7.4	868		77	38	39	1.0	199	117	53	63.0	0.00	0.2	349
32S/13E-32A01 M	570829	7.7	550	372	40	22	31	1.0	103	59	43	43.0	0.65	0.1	191
32S/13E-32A01 M	580206	7.5	351	240	10	21	22	1.0	57	21	35	33.0	0.00	0.7	112
32S/13E-32A01 M	590218	7.3	649	513	54	24	42	2.0	78	53	35	167.0	0.04	0.1	233
32S/13E-32A01 M	590922	7.7	654	451	50	22	44	2.0	84	124	51	50.0	0.29	0.1	216
32S/13E-32A01 M	600226	7.2	743	480	58	27	48	1.0	58	155	51	88.0	0.00	0.3	256
32S/13E-32A01 M	600920	7.0	842		69	34	44	2.0	110	176	55	48.0	0.05	0.0	312
32S/13E-32A01 M	610302	6.8	750		64	34	42	2.0	57	170	56	92.0	0.15	0.0	300
32S/13E-32A01 M	611117	7.1	830	576	80	34	39	2.0	93	151	57	124.0	0.01	0.2	340
32S/13E-32A01 M	620823	6.7	825	551	69	36	42	2.0	51			150.0	0.06	0.1	320
32S/13E-32A01 M	621016	6.7	840	560	72	36	46	1.0	40	158	57	172.0	0.07	0.2	328
32S/13E-32A01 M	630926	7.5	832	590	71	34	46	2.0	32	180	56	138.0	0.05	0.3	317
32S/13E-32A01 M	640604	7.1	822	560	70	38	46	2.0	32	185	56	144.0	0.04	0.3	331
32S/13E-32A01 M	651007	7.6	935	630	77	38	50	2.0	43	194	76	128.0	0.10	0.2	349
32S/13E-31K01 M	610926	8.1	2340	1447	186	132	89	9.0	521	494	124	9.3	0.10	0.4	1008
32S/13E-31J03 M	660718	7.9	2166	1595	222	135	82	2.0	326	644	131	126.0	0.08	0.6	1110
32S/13E-31J02 M	610926	7.6	1750	1419	200	122	59	2.0	381	534	99	65.0	0.07	0.4	1001
32S/13E-31J02 M	620713	8.8	1380	1042	174	75	51	2.0	389	331	68	27.0	0.05	0.1	743
32S/13E-31J02 M	621030	8.2	1280	1108	137	91	50	2.0	382	327	62	29.0	0.13	0.2	717
32S/13E-31J02 M	630708	7.7	1110	816	127	57	43	1.0	323	242	50	11.0	0.01	0.4	552
32S/13E-31J02 M	650727	8.3	1359	1070	156	75	51	2.0	355	301	59	58.0	0.04	0.5	698
32S/13E-31J01 M	640707	7.9	1170	808	51	102	50	1.0	326	229	52	12.0	0.05	0.1	547
32S/13E-31H09 M	951128	7.6	1190	657	120	54	49	2.4	376	167	39	< 1.0		0.2	520
32S/13E-31H09 M	840712	7.8	1043	700	104	48	70		412	136	32				457
32S/13E-31H09 M	850808	7.3	1036	663	122	53	50	3.0	390	158	38			0.3	522
32S/13E-31H09 M	881128	7.1	1500	660	122	55	47	3.0	370	180	39	< 0.4		< 0.1	510
32S/13E-31H09 M	920714	7.2	1070	600	130	46	48	2.4	395	145	32	< 1.0		0.2	512
32S/13E-31H09 M	950718	7.5	1160	652	120	54	44	2.3	376	171	35	< 1.0		0.1	554
32S/13E-31H08 M	951128	7.6	1200	647	116	61	37	2.2	380	168	35	< 1.0		0.2	540
32S/13E-31H08 M	840707	7.4	860	635	103	54	42		416	129	26				480
32S/13E-31H08 M	850808	7.4	1025	661	119	54	41	3.0	396	143	32			0.3	518
32S/13E-31H08 M	881128	7.3	900	590	110	50	34	5.0	300	170	38	< 0.4		0.3	440

F6

AM 01692

nd = nondetect

APPENDIX F (continued)
 ARROYO GRANDE - NIPOMO MESA AREA
 SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	Fl mg/L	Total Hardness mg/L
32S/13E-31H08 M	920714	7.4	1110	577	135	40	39	2.3	384	141	29	< 1.0		0.3	499
32S/13E-31H08 M	950718	7.7	1180	648	123	55	34	2.2	396	164	32	< 1.0		0.2	560
32S/13E-31H07 M	660718	8.5	1788	1249	194	82	92	4.0	363	368	146	91.0	0.06	0.6	822
32S/13E-31H07 M	671005	7.8	2097	1562	216	95	116	5.0	406	421	172	142.5	0.06	0.6	930
32S/13E-31H07 M	701020	7.5	2013	1485	183	115	118	4.0	449	431	106	162.0	0.15	0.6	930
32S/13E-31H04 M	610926	8.2	2180	1210	128	74	159	1.0	262	276	259	89.0	0.10	0.4	624
32S/13E-31H04 M	621030	7.3	1800	1338	126	75	190	1.0	296	307	268	42.0	0.15	0.2	623
32S/13E-31H03 M	621030	8.2	1280	1074	133	85	53	1.0	365	281	85	31.0	0.13	0.2	682
32S/13E-31H03 M	651007	7.7	1403	995	148	74	61	1.0	335	291	89	48.0	0.12	0.6	675
32S/13E-31H03 M	660718	8.2	1570	1036	166	88	65	1.0	349	343	99	70.0	0.09	0.6	777
32S/13E-31H03 M	691007	7.9	1422	1119	132	85	62	1.0	292	315	105	75.0	0.10	0.4	679
32S/13E-31H03 M	701020	7.8	1598	1179	170	87	69	1.0	358	338	111	84.0	0.01	0.5	783
32S/13E-31H03 M	711028	8.0	1563	1100	173	83	74	1.3	400	310	98	87.6	0.08	0.3	773
32S/13E-31H02 M	650727	8.0	1466	1135	131	91	60	1.0	212	402	82	99.0	0.06	0.4	702
32S/13E-31H01 M	610926	7.7	1500		166	88	55	1.0	327	404	74	50.0	0.10	0.4	777
32S/13E-31H01 M	640707	8.4	1640	1206	108	114	80	3.0	373	334	128	0.0	0.17	0.1	739
32S/13E-31H01 M	650727	8.5	1686	1375	198	99	62	2.0	342	460	93	85.0	0.02	0.6	902
32S/13E-31F01 M	610928	8.2	1175	676	76	67	47	3.0	265	227	50	3.7	0.10	0.3	465
32S/13E-31F01 M	621102	7.5	1190	808	134	64	47	3.0	396	232	41	0.0	0.10	0.2	598
32S/13E-31F01 M	630708	8.1	1050	741	92	67	46	3.0	310	220	43	1.2	0.08	0.3	505
32S/13E-31F01 M	650727	8.1	1163	820	131	64	46	3.0	372	242	42	0.0	0.05	0.4	590
32S/13E-31F01 M	660718	8.0	1082	676	93	66	47	3.0	284	242	47	1.0	0.03	0.4	504
32S/13E-31F01 M	671003	7.6	1187	822	129	60	48	3.0	364	242	41	0.6	0.04	0.4	569
32S/13E-31C01 M	621030	7.9	1950	1468	66	62	325	41.0	393	36	523	0.0	0.35	0.2	420
32S/13E-31C01 M	650414	7.5	4255	2509	82	98	670	40.0	427	336	960	1.0	0.45	0.9	608
32S/13E-31C01 M	660122	7.8	4543	2592	100	108	708	45.0	452	355	1008	3.7	0.55	0.8	694
32S/13E-31C01 M	671004	7.9	4780	2871	100	115	752	47.0	424	410	1101	3.0	0.55	0.7	723
32S/13E-31B13 M	650727	8.2	1140	790	105	52	60	3.0	208	183	96	90.0	0.08	0.3	476
32S/13E-31B12 M	650605	8.0	907	560	90	42	36	2.0	215	138	49	59.0	0.02	0.4	397
32S/13E-31B10 M	650605	7.5	1193	819	97	47	78	3.0	176	178	100	120.0	0.06	0.3	436
32S/13E-31B09 M	650727	8.4	1162	817	96	50	76	3.0	188	184	99	113.0	0.10	0.3	445
32S/13E-31B07 M	650605	7.4	1081	696	66	55	70	1.0	133	199	93	81.0	0.02	0.3	391
32S/13E-31B06 M	650605	7.6	1185	784	89	51	76	2.0	171	178	101	115.0	0.07	0.3	432
32S/13E-31B05 M	650605	7.4	1140	760	87	42	80	2.0	146	159	103	121.0	0.08	0.3	390
32S/13E-31B04 M	650604	7.4	1214	786	91	51	82	2.0	180	181	103	117.0	0.07	0.3	437
32S/13E-31B03 M	621030	8.4	1440	942	126	67	118	3.0	318	286	145	50.0	0.16	0.2	590
32S/13E-31B01 M	530603	7.3	1114		107	37	73	4.0	212	183	91	89.9	0.10	0.0	419
32S/13E-31B01 M	610303	7.1	1180		107	55	67	3.0	205	210	99	107.0	0.15	0.0	493
32S/13E-30R11 M	640617	7.8	710	580	55	21	63	2.0	57	121	61	120.0	0.10	0.1	224

F7

AM 01693

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	Fl mg/L	Total Hardness mg/L
32S/13E-30R02 M	610302	7.1	780		57	25	63	2.0	48	106	67	175.0	0.04	0.0	245
32S/13E-30R02 M	640617	7.1	896	629	69	30	61	2.0	72	122	76	156.0	0.40	0.2	296
32S/13E-30R02 M	701014	7.4	896	613	64	29	69	3.0	54	145	77	134.0	0.02	0.2	279
32S/13E-30R02 M	871105	7.8	694	532	53	28	48	1.6	62	137	55	76.8	0.00	0.2	247
32S/13E-30R01 M	581006	7.4	748	470	65	30	54	3.0	130	99	74	78.0	0.00	0.3	286
32S/13E-30R01 M	590218	7.3	680	489	65	29	44	3.0	153	96	57	62.0	0.15	0.2	281
32S/13E-30R01 M	590922	7.5	847	585	63	30	61	3.0	102	106	78	115.0	0.42	0.0	281
32S/13E-30R01 M	600224	7.3	892	560	87	32	46	2.0	130	122	82	98.0	0.03	0.3	349
32S/13E-30R01 M	600920	7.7	1005		99	41	38	2.0	186	150	79	62.0	0.03	0.1	416
32S/13E-30R01 M	610302	7.4	900		82	41	39	2.0	127	139	85	109.0	0.38	0.2	373
32S/13E-30R01 M	611109	7.2	980	659	90	41	48	3.0	174	150	73	85.0	0.07	0.3	393
32S/13E-30R01 M	620823	7.0	740	618	56	23	56	3.0	66	103	72	94.0	0.05	0.4	234
32S/13E-30R01 M	621010	7.4	700	488	56	21	55	2.0	67	101	71	87.0	0.05	0.2	226
32S/13E-30R01 M	630926	7.2	791	565	57	27	62	3.0	62	114	68	128.0	0.05	0.3	253
32S/13E-30R01 M	640617	7.2	806	533	58	26	61	3.0	58	117	70	123.0	0.28	0.3	252
32S/13E-30R01 M	651007	7.8	781	474	51	25	59	3.0	60	123	68	106.0	0.02	0.3	230
32S/13E-30R01 M	691007	7.9	828	554	59	27	63	3.0	67	136	73	108.0	0.00	0.3	258
32S/13E-30R01 M	711025	7.2	863	572	65	32	62	2.4	69	140	76	145.0	0.04	0.2	294
32S/13E-30Q04 M	650610	7.4	1018	733	81	39	65	2.0	112	156	94	118.0	0.05	0.2	363
32S/13E-30Q02 M	650610	7.5	1082	793	89	43	62	3.0	138	185	91	104.0	0.05	0.2	399
32S/13E-30P03 M	610928	7.9	780	603	94	45	30	2.0	230	139	51	49.0	0.08	0.3	420
32S/13E-30P03 M	671006	7.0	1143	765	88	50	67	2.0	126	209	102	115.0	0.05	0.3	425
32S/13E-30P01 M	501112	7.8	796	512	96	26	37	1.0	271	105	32	15.0	0.02		347
32S/13E-30P01 M	610303	7.5	910		94	43	38	2.0	266	110	76	20.0	0.04	0.1	412
32S/13E-30P01 M	620823	7.7	950	694	104	49	40	2.0	263	119	106	13.0	0.06	0.2	461
32S/13E-30P01 M	621030	7.5	960	682	100	47	42	3.0	262	120	99	15.0	0.14	0.2	443
32S/13E-30P01 M	660120	7.4	1099	653	106	48	43	2.0	251	134	105	27.0	0.04	0.4	462
32S/13E-30P01 M	671004	7.4	1099	736	104	48	49	3.0	241	147	108	35.0	0.04	0.4	457
32S/13E-30L02 M	540929	7.5	761		92	41	40	3.0	290	124	43	20.0	0.20	0.1	398
32S/13E-30L02 M	570829	7.8	901	637	76	40	41	2.0	260	115	51	4.7	0.30	0.1	354
32S/13E-30L02 M	580206	7.2	855	590	70	47	39	2.0	255	95	52	22.0	0.10	0.0	368
32S/13E-30L02 M	590218	7.4	741	529	72	35	45	2.0	178	103	59	67.0	0.03	0.1	324
32S/13E-30L02 M	590922	7.1	865	645	85	43	40	1.0	258	115	57	28.0	0.18	0.1	389
32S/13E-30L02 M	600224	7.3	950	590	90	44	48	2.0	238	125	85	35.0	0.12	0.3	406
32S/13E-30L02 M	600920	7.3	945		92	45	42	2.0	287	134	50	22.0	0.15	0.0	415
32S/13E-30L02 M	610302	7.1	1530		139	72	60	3.0	230	160	255	16.0	0.10	0.0	644
32S/13E-30L02 M	640617	7.5	1057	658	102	48	52	2.0	250	140	97	26.0	0.30	0.4	452
32S/13E-30L02 M	651007	8.0	1156	725	113	53	46	3.0	244	151	130	24.0	0.04	0.3	500
32S/13E-30L02 M	671005	7.8	1246	842	116	54	56	3.0	239	145	163	29.0	0.06	0.3	512

F8

AM 01694

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	Fi mg/L	Total Hardness mg/L
32S/13E-30L02 M	701020	8.1	1512	986	136	68	88	3.0	238	206	213	45.0	0.07	0.4	619
32S/13E-30L02 M	741108	8.3	1206	758	106	51	56	2.3	189	157	129	80.0	0.54	0.5	473
32S/13E-30L01 M	611109	8.0	925	605	98	46	41	1.0	276	138	53	27.0	0.04	0.2	434
32S/13E-30L01 M	621016	7.2	950	604	102	45	47	2.0	283	137	69	13.0	0.07	0.2	440
32S/13E-30L01 M	630926	7.4	991	730	94	51	50	3.0	268	132	85	25.0	0.06	0.3	444
32S/13E-30L01 M	641013	8.2	1080	814	96	54	52	2.0	253	144	111	22.0	0.11	0.1	462
32S/13E-30K19 M	951107	7.6	1110	668	119	50	55	3.3	307	200	55	2.4		0.2	500
32S/13E-30K19 M	900711	6.7	1000	660	100	46	74	4.0	260	200	63	1.3		0.3	450
32S/13E-30K19 M	930609	7.3	1130	696	82	68	69	3.5	316	220	63	< 1.0		0.6	484
32S/13E-30K17 M	711029	7.5	984	638	80	39	62	2.8	77	159	96	148.5	0.04	0.2	360
32S/13E-30K16 M	650831	7.3	1390	918	103	58	97		252	206	158	28.0		0.1	497
32S/13E-30K16 M	780623	7.5	1100	976	82	29	67		75	248	92	6.0		0.2	388
32S/13E-30K10 M	650610	7.4	930	670	68	32	60	3.0	77	134	83	128.0	0.05	0.2	301
32S/13E-30K06 M	600803	7.6	998		87	41	54	1.0	161	142	100	62.0	0.13	0.2	386
32S/13E-30K06 M	621031	8.2	1140	904	49	86	79	4.0	178	158	184	67.0	0.13	0.2	476
32S/13E-30K06 M	671005	8.0	1235	801	98	44	82	3.0	176	165	143	85.0	0.08	0.3	426
32S/13E-30K06 M	780623	7.4	1150	952	76	30	70		86	232	107	6.1		0.0	404
32S/13E-30K05 M	650610	7.7	1005	700	85	39	56	3.0	144	149	80	108.0	0.06	0.2	373
32S/13E-30K04 M	780623	7.7	1200	872	78	30	66		77	246	85	6.0		0.1	384
32S/13E-30K01 M	650610	7.2	810	594	53	24	62	2.0	64	83	84	125.0	0.07	0.0	231
32S/13E-30H02 M	580929	7.4	690	460	56	30	43	2.0	80	80	65	124.0	0.18	0.2	263
32S/13E-30H02 M	590218	7.4	699	515	62	29	45	2.0	83	89	69	124.0	0.03	0.1	274
32S/13E-30H02 M	590922	7.3	652	440	47	25	40	2.0	70	55	64	107.0	0.46	0.2	221
32S/13E-30H02 M	610302	7.3	700		51	26	42	2.0	79	65	65	115.0	0.10	0.1	234
32S/13E-30H02 M	611109	7.4	664	448	50	24	41	2.0	93	50	71	94.0	0.06	0.2	224
32S/13E-30H02 M	621010	7.5	630	474	53	23	47	2.0	78	62	73	100.0	0.08	0.2	227
32S/13E-30H02 M	630926	7.2	734	500	57	21	54	2.0	84	73	68	118.0	0.05	0.3	229
32S/13E-30H02 M	640617	7.6	770	536	59	28	58	3.0	90	87	73	133.0	0.05	0.1	262
32S/13E-30H02 M	641013	7.9	690	610	53	27	58	3.0	77	80	71	127.0	0.06	0.1	243
32S/13E-30H02 M	651007	7.8	778	463	52	26	52	2.0	71	81	76	122.0	0.03	0.3	237
32S/13E-30H02 M	691007	7.7	864	662	60	29	60	3.0	67	108	84	123.0	0.06	0.3	269
32S/13E-30H02 M	701020	8.0	864	551	59	28	64	2.0	75	109	80	128.0	0.07	0.3	263
32S/13E-30H02 M	711025	7.2	822	525	55	29	70	2.8	81	127	70	130.0	0.06	0.1	256
32S/13E-30H01 M	580929	6.2	636	425	34	22	63	1.0	18	93	58	145.0	0.14	0.1	176
32S/13E-30H01 M	590218	6.1	587	448	31	18	62	1.0	15	94	53	133.0	0.02	0.1	152
32S/13E-30H01 M	590922	7.0	714	460	34	21	62	2.0	10	79	65	163.0	0.32	0.0	172
32S/13E-30H01 M	600920	6.6	725		35	22	62	1.0	13	97	58	155.0	0.00	0.1	178
32S/13E-30H01 M	610302	6.5	690		37	25	56	1.0	16	92	61	150.0	0.28	0.0	196
32S/13E-29P01 M	521112	7.5	559	374	66	17	33	2.0	148	98	32	2.6	0.02		235

FG

AM 01695

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	FI mg/L	Total Hardness mg/L
32S/13E-29M04 M	871105	8.2	926	726	82	41	56	3.4	109	160	81	132.0	0.20	0.3	373
32S/13E-29G17 M	930202	7.7	900	524	92	40	39	2.2	249	157	42	25.8		0.3	396
32S/13E-29G15 M	850515	7.5	1021	677	104	47	55		382	133	30				456
32S/13E-29G15 M	880301	7.5		670	110	51	35	6.0	410	150	30	< 0.4		< 0.1	530
32S/13E-29G15 M	880322	7.2	1050	650	110	54	39	< 3.0	400	130	25	< 0.4		< 0.1	530
32S/13E-29G15 M	910129	7.6	1150	713	112	58	37	2.3	402	127	20	< 1.0		< 0.1	519
32S/13E-29G15 M	940308	7.5	1040	638	120	50	39	2.3	410	150	30	< 1.0		0.3	507
32S/13E-29G14 M	761118	8.4		750	96	43	40	2.4	242	157	42	31.0		0.2	415
32S/13E-29G14 M	880301	7.3	800	540	71	34	43	5.0	164	150	45	34.0		< 0.1	350
32S/13E-29G14 M	940308	7.4	810	499	83	29	45	3.2	181	154	47	28.2		0.3	328
32S/13E-29G13 M	691007	7.8	848	572	60	46	41	3.0	148	153	57	42.0	0.05	0.3	339
32S/13E-29G02 M	590218	8.1	984	661	110	53	33	3.0	340	165	32	3.9	0.09	0.2	493
32S/13E-29G02 M	640617	8.2	952	642	102	50	39	2.0	320	146	44	25.5	0.15	0.5	460
32S/13E-29G02 M	640922	7.6	900	640	74	59	46	2.0	282	160	46	20.0	0.55	0.1	427
32S/13E-29G02 M	651007	7.9	938	610	99	46	40	2.0	287	148	43	27.0	0.12	0.4	436
32S/13E-29G02 M	701023	7.8	788	522	60	48	39	3.0	208	160	40	10.0	0.02	0.4	347
32S/13E-29G02 M	711026	7.6	858	571	81	39	48	2.1	201	159	54	39.0	0.04	0.2	363
32S/13E-29G02 M	880301	7.4	850	550	70	33	48	5.0	148	140	55	58.0		< 0.1	340
32S/13E-29G02 M	910129	7.6	850	519	79	33	45	2.1	214	132	39	38.1		0.2	332
32S/13E-29G02 M	940308	7.6	780	467	66	30	48	2.1	155	141	46	40.2		0.3	288
32S/13E-29G01 M	501113	7.5	872	558	90	43	37	3.0	296	131	32	10.0	0.01		402
32S/13E-29G01 M	570306	7.4	945	591	102	45	38	3.0	314	146	35	8.7	0.01	0.2	440
32S/13E-29G01 M	590218	7.9	842	601	80	39	36	2.0	173	150	53	60.0	0.08	0.2	360
32S/13E-29G01 M	600803	7.2	939		99	46	38	2.0	272	153	41	18.0	0.11	0.3	436
32S/13E-29G01 M	611117	7.4	948	627	103	49	34	2.0	293	144	43	31.0	0.02	0.4	459
32S/13E-29G01 M	620823	7.4	810	638	77	33	41	4.0	144	143	54	60.0	0.05	0.4	328
32S/13E-29G01 M	621016	7.3	820	480	79	43	43	2.0	234	132	60	31.0	0.09	0.2	374
32S/13E-29G01 M	630925	7.2	937	705	104	45	42	3.0	296	146	44	28.0	0.08	1.1	445
32S/13E-29G01 M	640922	7.7	940	612	73	46	42	2.0	154	152	37	111.0	0.12	0.2	371
32S/13E-29G01 M	641013	7.6	869	670	82	40	42	2.0	214	136	48	44.0	0.06	0.4	369
32S/13E-29G01 M	690411	8.0		625	82	30	52	3.2	191	161	50	40.0		0.2	335
32S/13E-29G01 M	740912	7.9	889	670	88	43	42	2.0	215	152	53	35.0		0.2	395
32S/13E-29G01 M	880301	7.3	700	420	58	26	49	4.0	123	130	45	39.0		< 0.1	270
32S/13E-29G01 M	910129	7.7	840	487	83	25	43	2.1	185	129	35	25.1		0.3	308
32S/13E-29G01 M	940308	7.6	780	470	72	28	48	2.2	163	143	48	31.2		0.3	296
32S/13E-29F01 M	671024	7.6	1049	684	88	43	60	3.0	197	145	81	94.5	0.00	0.3	397
32S/13E-29F01 M	880301	7.2	700	450	50	24	41	5.0	90	110	45	62.0		< 0.1	250
32S/13E-29F01 M	940308	7.6	690	415	67	19	44	2.0	124	115	48	45.2		0.2	247
32S/13E-29E07 M	790924	8.1	940		102	49	55	3.5	382	133	34	0.5		0.2	470

F10

AM 01696

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	FI mg/L	Total Hardness mg/L
32S/13E-29E07 M	900713	6.9	890	660	110	56	42	5.0	360	140	28	8.4		0.3	490
32S/13E-29E07 M	930915	7.6	1110	605	107	52	40	2.4	370	146	26	9.6		0.3	480
32S/13E-29E05 M	640617	7.1	755	558	62	28	56	3.0	80	84	69	156.0	0.08	0.2	270
32S/13E-29E03 M	590601	7.3	870		83	43	38	3.0	247	111	46	46.0	0.04	0.2	384
32S/13E-29E03 M	600512	7.1	888	628	81	37	42	3.0	172	128	69	50.0	0.01	0.2	354
32S/13E-29E03 M	601111	7.0	806		74	35	48	3.0	168	136	63	37.0	0.04	0.1	329
32S/13E-29E03 M	620416	7.0	948	763	74	36	52	3.0	139	139	62	98.0	0.10	0.1	333
32S/13E-29E03 M	640617	7.6	900	644	69	47	58	3.0	157	134	73	107.0	0.13	0.1	366
32S/13E-29E03 M	640703	7.4	977	566	82	38	32	3.0	149	133	72	59.0	0.20	0.2	361
32S/13E-29E03 M	670126	6.8	1000	615	76	39	57	3.0	144	136	77	105.0	0.11	0.2	350
32S/13E-29E03 M	711029	7.9	796	520	63	35	50	2.0	114	156	58	78.0	0.04	0.2	301
32S/13E-29E03 M	891228	6.4	900	600	72	39	55	5.0	88	170	54	140.0		0.2	340
32S/13E-29E03 M	900306	6.1	900	570	69	36	54	6.0	82	180	59	130.0		0.1	350
32S/13E-29E02 M	561212	7.2		587	65	32	43	2.0	180	100	46	45.0	0.10	0.1	294
32S/13E-29E02 M	600512	7.0	834	589	71	34	44	3.0	162	121	56	58.0	0.04	0.2	317
32S/13E-29E02 M	620416	6.5	916	500	60	34	55	2.0	91	143	66	100.0	0.10	0.1	290
32S/13E-29E02 M	640703	7.4	1013	595	82	37	57	3.0	147	136	82	100.0	0.20	0.1	357
32S/13E-29E02 M	670126	7.2	980	598	79	39	53	3.0	169	127	68	95.0	0.07	0.2	358
32S/13E-29E02 M	720615	7.4		645	58	37	52	3.0	100	152	60	86.0		0.3	295
32S/13E-29E02 M	740425	7.4	720	566	76	35	51	3.4	164	150	54	56.4		0.5	337
32S/13E-29E02 M	911121	6.5	950	590	74	42	54	< 3.0	110	180	59	120.0		< 0.1	360
32S/13E-29E02 M	920707	7.4	920	557	78	35	57	2.5	124	148	60	125.0		0.1	339
32S/13E-29E01 M	561212	7.1		583	64	31	42	4.0	140	96	51	91.0	0.10	0.3	287
32S/13E-29E01 M	600512	7.2	785	593	67	29	54	3.0	94	155	62	78.0	0.02	0.2	286
32S/13E-29E01 M	610303	7.2	865		70	34	53	3.0	100	131	62	144.0	0.13	0.2	315
32S/13E-29E01 M	620416	7.0	932	536	67	32	58	3.0	121	123	63	108.0	0.20	0.2	299
32S/13E-29E01 M	640703	7.6	930	563	69	33	58	3.0	102	134	72	118.0	0.10	0.2	308
32S/13E-29E01 M	670126	7.4	952	601	70	35	58	3.0	91	134	76	135.0	0.07	0.2	319
32S/13E-29E01 M	720615	7.4		615	76	34	52	2.7	144	144	58	94.0		0.4	330
32S/13E-29E01 M	781004	7.8	730	526	69	23	55	3.4	83	154	51	101.0		0.2	305
32S/13E-29E01 M	860402	7.2	750	490	55	29	46		66	140	50	89.0		0.4	260
32S/13E-29E01 M	891228	6.3	700	470	54	28	54	4.0	78	130	50	93.0		0.3	240
32S/13E-29E01 M	900306	6.2	750	500	54	27	56	5.0	78	140	57	100.0		0.3	260
32S/13E-29E01 M	920707	7.0	760	448	56	26	57	2.3	102	123	58	76.8		0.1	248
32S/13E-29E01 M	930915	7.2	750	441	59	25	50	2.0	80	129	52	76.5		0.2	250
32S/13E-29D04 M	691007	7.8	891	592	79	43	44	3.0	228	127	52	38.0	0.00	0.2	374
32S/13E-29D04 M	711029	7.4	862	547	80	38	47	2.4	200	122	55	73.5	0.04	0.2	356
32S/13E-29D03 M	610303	7.2	480		27	11	46	2.0	41	35	46	95.0	0.06	0.0	113
32S/13E-29D03 M	640617	7.6	575	408	32	15	51	2.0	38	41	88	95.0	0.50	0.2	142

F11

AM 01697

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	Fl mg/L	Total Hardness mg/L
32S/13E-29D02 M	610509	7.4	620		51	19	48	2.0	57	77	63	115.0	0.25	0.1	205
32S/13E-29D02 M	640617	7.1	650	478	48	19	61	2.0	57	62	81	116.0	0.08	0.1	198
32S/13E-29D01 M	540929	7.8	934		97	49	44	3.0	338	144	31	2.5	0.05	0.1	444
32S/13E-29D01 M	570305	7.4	787	481	67	42	44	4.0	281	112	27	0.0	0.06	0.0	340
32S/13E-29D01 M	610303	7.3	980		108	44	43	3.0	356	149	34	0.0	0.13	0.0	451
32S/13E-29D01 M	640617	7.6	971	626	108	46	42	3.0	345	143	32	6.0	0.05	0.3	459
32S/13E-29C02 M	741107	8.6	833	506	73	35	46	2.7	168	119	53	80.0	0.00	0.3	327
32S/13E-29C02 M	811016	8.1	938	579	77	42	50	2.9	222	133	56	41.6	0.00	0.3	364
32S/13E-29B01 M	691007	7.9	802	529	60	39	49	2.0	179	122	54	33.0	0.04	0.3	310
32S/13E-29B01 M	711029	8.2	880	583	82	40	54	2.2	237	152	52	37.5	0.06	0.2	369
32S/13E-28Nxx M	950418	7.0	1430	950	152	68	59	2.3	352	268	93	53.1		0.3	659
32S/13E-28Nx M	950419	7.2	1580	1080	185	81	56	3.0	396	363	80	42.1		0.3	795
32S/13E-28L01 M	691007	7.8	860	584	72	39	46	2.0	129	198	54	33.0	0.04	0.2	340
32S/13E-28L01 M	701014	8.0	877	611	77	39	50	2.0	137	201	57	53.0	0.04	0.3	353
32S/13E-28L01 M	871105	8.2	849	665	70	60	37	2.2	196	229	49	0.5	0.10	0.4	421
32S/13E-28E05 M	610303	6.8	630		40	28	52	1.0	111	127	40	45.0	0.00	0.1	215
32S/13E-28E05 M	640617	7.8	1061	705	106	53	50	2.0	322	157	56	26.0	0.20	0.4	483
32S/13E-28E01 M	540929	7.4	1020		105	58	47	2.0	346	177	51	13.6	0.00	0.1	501
32S/13E-28E01 M	610303	7.5	1070		112	52	53	2.0	337	176	60	22.0	0.10	0.1	494
32S/13E-28E01 M	620823	7.4	1020	692	105	51	52	2.0	342	167	56	16.0	0.09	0.1	472
32S/13E-28E01 M	640617	7.7	1041	684	108	52	49	2.0	320	157	55	25.0	0.16	0.4	484
32S/13E-28B01 M	711028	7.9	1786	1382	220	99	81	3.5	434	538	89	2.6	0.08	0.4	956
32S/13E-27D03 M	620824	7.3	2160	1854	205	164	109	6.0	586	650	115	0.0	0.14	0.2	1187
32S/13E-27D03 M	640617	7.6	2177	1694	230	106	152	6.0	559	585	118	3.3	0.02	0.7	1011
32S/13E-27D03 M	680620	7.1	2225	1918	276	131	108	4.0	515	734	126	1.5	0.14	0.6	1228
32S/13E-27D03 M	871105	8.2	1780	1460	111	121	147	8.0	200	678	136	4.2	0.20	0.5	774
32S/13E-24D01 M	640604	7.7	1360	960	174	60	82	5.0	434	308	71	0.0	0.16	0.4	681
32S/13E-24A02 M	640604	7.7	1240	980	166	57	64	1.0	361	329	59	0.0	0.18	0.4	649
32S/13E-23R01 M	620919	7.8	860	543	54	46	70	11.0	349	69	43	1.8	0.10	0.4	324
32S/13E-23F02 M	610303	7.7	1840		200	106	82	3.0	504	436	117	0.0	0.23	0.3	936
32S/13E-23F01 M	620824	7.4	1900	1530	159	159	78	4.0	549	488	116	0.0	0.24	0.4	1051
32S/13E-23F01 M	640604	7.3	1827	1432	213	117	92	3.0	594	469	102	8.0	0.24	0.5	1013
32S/13E-23F01 M	661017	8.1	2020	1520	216	112	82	5.0	515	516	102	7.4	0.30		1000
32S/13E-23F01 M	680620	7.5	1941	1544	213	122	83	3.0	522	518	126	0.5	0.19	0.5	1034
32S/13E-22R01 M	640604	7.8	2020	1671	235	147	82	7.0	617	584	99	4.6	0.16	0.6	1192
32S/13E-22R01 M	680620	7.4	2014	1666	234	141	80	6.0	586	567	115	1.5	0.14	0.6	1165
32S/13E-22Q01 M	640604	7.6	2163	1871	290	131	93	4.0	455	719	115	102.0	0.20	0.8	1263
32S/13E-22P01 M	610303	7.5	2200		297	134	98	4.0	509	822	121	0.0	0.21	0.2	1293
32S/13E-22C01 M	610303	6.8	390		20	14	48	2.0	89	41	55	0.0	0.26	0.8	108

F12

AM 01698

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	FI mg/L	Total Hardness mg/L
32S/13E-22C01 M	680620	7.0	376	276	14	8	45	2.0	78	15	54	1.0	0.19	0.9	68
32S/13E-20N05 M	640305	7.0	600	450	29	19	70	2.0	31	93	63	107.0	0.05	0.1	151
32S/13E-20N05 M	671025	7.3	1114	697	45	33	115	2.0	30	105	187	132.5	0.05	0.1	248
32S/13E-20N01 M	640617	7.2	900	630	71	40	60	3.0	139	135	78	116.0	0.10	0.1	342
32S/13E-20M03 M	640617	6.7	650	470	26	28	74	1.0	23	77	85	133.0	0.05	0.1	180
32S/13E-20M01 M	640304	7.1	500	337	23	8	35	80.0	101	14	92	20.0	0.05	0.1	91
32S/13E-19R01 M	640306	6.8	630	449	43	16	73	2.0	15	74	76	155.0	0.07	0.1	174
32S/13E-19Q02 M	951107	7.5	1180	685	127	56	50	2.7	401	161	47	< 1.0		0.1	548
32S/13E-19Q02 M	731123	7.5	740	545	81	42	57	4.4	310	145	28	0.6		0.4	360
32S/13E-19Q02 M	761012	7.9	682	377	69	34	24	3.9	213	109	24	1.0	0.06	0.4	313
32S/13E-19Q02 M	900125	6.6	1000	730	110	46	47	4.0	330	170	29	< 0.4		0.3	470
32S/13E-19Q02 M	921208	7.4	1070	589	125	38	48	2.3	362	148	47	< 1.0		0.2	468
32S/13E-19Q01 M	640306	6.5	450	336	22	10	62	2.0	32	36	66	80.0	0.05	0.1	96
32S/13E-19N01 M	540929	6.9	454	23	9	47		1.0	18	41	57	75.0	0.03	0.1	95
32S/13E-19N01 M	570829	6.5	596	336	22	15	64	2.0	18	58	73	86.0	0.20	0.0	117
32S/13E-19N01 M	580206	6.3	511	353	18	13	53	1.0	18	33	69	75.0	0.00	0.2	99
32S/13E-19N01 M	590922	7.3	620	407	26	17	65	1.0	20	58	75	114.0	0.30	0.0	135
32S/13E-19N01 M	610302	6.3	725		38	17	72	2.0	21	80	84	133.0	0.10	0.0	165
32S/13E-19L01 M	640306	7.1	400	198	24	8	50	1.0	37	37	50	76.0	0.02	0.1	93
32S/13E-19J02 M	640306	7.0	290	248	12	4	48	2.0	25	2	46	69.0	0.05	0.1	47
32S/13E-19J02 M	671023	7.2	514	258	19	9	58	3.0	20	15	65	115.0	0.10	0.1	85
32S/13E-19B01 M	950926	6.9	570	284	28	11	66	2.1	75	21	110	< 1.0		0.9	108
32S/13E-19B01 M	900125	6	1100	860	48	23	150	4.0	110	63	260	0.9		1.0	190
32S/13E-19B01 M	921208	7	2200	1108	104	44	260	6.4	252	106	461	< 1.0		1.5	440
32S/13E-18P01 M	950926	6.7	2150	1256	111	85	222	8.9	206	359	345	< 1.0		1.1	596
32S/13E-18P01 M	900125	6.2	1600	1000	68	39	190	7.0	150	140	350	0.9		0.9	340
32S/13E-18P01 M	921208	6.9	2900	1464	144	83	303	10.5	318	210	553	1.0		1.3	700
32S/13E-17K01 M	910813	7.7	530	263	34	16	54	3.5	156	17	62	< 1.0		< 0.1	148
32S/13E-17K01 M	940308	7.9	520	282	30	10	66	3.2	164	15	60	< 1.0		0.1	115
32S/13E-15L01 M	640618	7.7	380	244	25	9	45	3.0	96	19	55	0.0	0.05	0.1	100
32S/13E-15K01 M	640618	6.7	650	403	35	17	88	3.0	47	41	175	6.0	0.08	0.4	158
32S/13E-15K01 M	680620	6.5	776	571	36	18	79	3.0	43	46	175	12.0	0.03	0.5	164
32S/13E-14R02 M	680620	7.5	1110	682	89	65	67	4.0	449	116	55	1.0	0.28	0.4	490
32S/13E-14R01 M	711028	8.1	1128	735	106	58	78	4.7	410	154	69	8.0	0.28	0.2	503
32S/13E-14Fx M	950821		347	269	13	5	46	2.5	60	26	52	nd		0.7	51
32S/13E-13D04 M	811027	7.3	1310	867	129	63	58	4.9	322	251	52	68.0	0.20	0.5	581
32S/13E-13C03 M	871105	8.3	736	600	40	65	30	2.0	196	191	32	4.0	0.00	0.4	367
32S/13E-13C02 M	640603	8.2	1059	750	87	73	60	3.0	417	163	50	6.0	0.23	0.4	517
32S/13E-13C02 M	661017	8.3	1210		111	63	58	3.8	419	178	49	5.5	0.20		537

FI3

AM 01699

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	FI mg/L	Total Hardness mg/L
32S/13E-12Q02 M	570829	7.9	895	611	79	41	51	1.0	267	123	57	0.0	0.53	0.2	366
32S/13E-12Q02 M	580929	7.7	883	648	76	44	47	1.0	276	122	52	0.0	0.24	0.3	371
32S/13E-12Q02 M	601006	7.5	974	79	45	46	1.0	271	139	51	0.0	0.30	0.9	382	
32S/13E-12Q02 M	611106	8.0	841	565	92	45	43	1.0	260	152	57	5.6	0.05	0.6	415
32S/13E-12Q02 M	620824	7.6	927	638	92	45	45	1.0	260	167	50	0.0	0.09	0.7	415
32S/13E-12Q02 M	621009	8.4	880	640	95	46	47	1.0	278	179	47	0.0	0.14	0.4	426
32S/13E-12Q02 M	630925	8.1	965	650	89	52	49	1.0	260	187	60	0.5	0.07	0.7	436
32S/13E-12Q02 M	640603	7.1	984	674	92	48	46	1.0	235	188	71	0.0	0.08	0.7	427
32S/13E-12Q02 M	651007	8.2	967	660	102	51	48	1.0	274	173	76	10.0	0.06	0.7	464
32S/13E-12Q02 M	711020	8.2	1083	724	111	58	48	0.9	300	215	47	25.8	0.06	0.4	516
32S/13E-12N01 M	640603	7.1	1889	1544	263	108	49	2.0	443	644	62	0.5	0.17	0.7	1101
32S/13E-12C04 M	640603	8.0	1103	808	101	68	40	2.0	238	300	46	0.0	0.10	0.5	532
32S/13E-12C01 M	540701	7.4	1190	135	62	33	2.0	379	239	37	5.0	0.10	0.1	592	
32S/13E-12C01 M	610302	7.4	1120	133	64	34	2.0	384	232	38	0.0	0.10	0.2	595	
32S/13E-12C01 M	620824	7.5	1065	766	186	23	34	2.0	402	187	36	0.0	0.10	0.2	559
32S/13E-12C01 M	640603	8.1	992	676	100	63	30	2.0	336	172	35	3.0	0.09	0.5	509
32S/13E-12C01 M	711021	8.0	1056	690	114	62	33	2.0	386	170	31	4.3	0.07	0.3	540
32S/13E-11M01 M	540611	7.3	267	9	3	30	1.0	40	8	35	0.0	0.10	1.0	35	
32S/13E-08J01 M	610303	6.8	685	42	12	72	2.0	84	43	135	0.0	0.03	1.8	155	
32S/13E-01H01 M	640603	8.5	887	614	103	50	29	2.0	321	147	29	0.5	0.03	0.6	463
32S/13E-01G01 M	540930	8.2	865	92	46	28	2.0	313	132	24	5.0	0.00	0.2	419	
32S/13E-01G01 M	610302	8.3	890	102	51	32	2.0	349	137	34	0.0	0.08	0.2	464	
32S/13E-01G01 M	680620	7.6	934	578	101	56	32	2.0	369	132	34	0.5	0.09	0.5	483
32S/12E-24K01 M	610928	7.9	2445	1677	145	65	333	7.0	363	162	603	8.1	0.03	0.2	630
32S/12E-24K01 M	620713	7.8	2600	1514	158	58	312	6.0	365	192	550	0.0	0.08	0.1	633
32S/12E-24K01 M	671102	8.1	1197	748	81	51	109	8.0	395	95	107	3.0	0.14	0.2	412
32S/12E-24J01 M	610928	7.8	580	408	33	17	52	4.0	35	58	64	98.0	0.07	0.1	153
32S/12E-13R01 M	550921	7.6	7080	310	205	828	15.0	490	340	1844	6.8	0.44	0.4	1618	
32S/12E-13R01 M	570829	7.7	5459	3178	204	174	626	15.0	438	234	1434	0.0	0.70	0.0	1225
32S/12E-13R01 M	580930	7.5	4274	2799	235	149	444	24.0	381	185	1089	0.0	0.28	0.3	1200
32S/12E-13R01 M	671005	7.4	5634	3640	369	205	455	14.0	309	183	1626	4.5	0.16	0.5	1765
32S/12E-13P01 M	600224	7.4	1389	850	15	12	268	3.0	218	137	167	100.0	0.15	0.4	87
32S/12E-13P01 M	610303	7.4	1500	924	29	16	276	4.0	220	149	208	100.0	0.28	0.0	139
32S/12E-13P01 M	621030	8.2	1340	916	20	12	281	3.0	290	117	177	55.0	0.23	0.2	100
32S/12E-13P01 M	630708	7.3	1665	1048	26	23	304	6.0	248	158	257	79.0	0.23	0.4	160
32S/12E-13P01 M	640708	8.2	1930	1156	29	26	395	6.0	328	169	326	73.0	0.38	0.1	180
32S/12E-13P01 M	670926	7.7	1738	1035	21	28	324	5.0	282	168	262	72.5	0.23	0.3	168
32S/12E-13L01 M	671023	7.7	1573	757	44	41	162	3.0	190	135	162	100.0	0.19	0.3	279
32S/12E-13J03 M	630306	7.2	3358	2270	203	115	355	6.0	167	580	678	48.0	0.28	1.9	980

F14

AM 01700

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	Fl mg/L	Total Hardness mg/L
32S/12E-13J03 M	640708	7.2	3000	2358	230	107	385	6.0	164	536	766	32.0	0.28	1.6	1015
32S/12E-13J02 M	611108	7.2	4719	3019	197	159	591	15.0	537	241	1160	12.0	0.43	0.4	1146
32S/12E-13J02 M	621010	7.6	3900	2648	120	157	575	13.0	550	289	977	3.0	0.59	0.2	946
32S/12E-13J02 M	630306	7.4	4098	2670	185	159	512	13.0	674	341	825	7.5	0.70	0.3	1116
32S/12E-13J02 M	630926	7.4	3610	2600	170	160	515	14.0	615	260	922	0.0	0.37	0.1	1083
32S/12E-13J02 M	641013	8.1	3900	3024	198	151	565	15.0	563	281	1039	3.0	0.64	0.1	1116
32S/12E-13J02 M	651007	7.6	5144	3294	194	174	635	16.0	449	224	1353	5.0	0.45	0.4	1200
32S/12E-13J02 M	670926	8.2	4141	2643	134	147	552	14.0	492	301	939	9.5	0.45	0.4	940
32S/12E-13J01 M	540928	7.4	3180		128	138	351	17.0	669	262	517	8.1	0.38	0.2	888
32S/12E-13J01 M	541029	7.9	2985		127	140	344	18.0	654	252	504	6.9	0.62	0.2	893
32S/12E-13J01 M	570829	8.1	3410	2391	133	150	383	16.0	691	273	600	0.0	1.00	0.2	950
32S/12E-13J01 M	590727	7.0	3105	2230	127	141	360	13.0	670	314	514	0.0	0.46	0.3	898
32S/12E-13J01 M	600929	7.7	2220		105	107	234	13.0	696	195	242	1.7	1.05	1.1	703
32S/12E-13J01 M	611108	7.2	3086	1889	126	135	354	14.0	678	246	515	1.5	0.65	0.6	870
32S/12E-13J01 M	621010	7.3	2500	1616	116	122	310	11.0	665	235	400	4.0	0.75	0.2	792
32S/12E-13J01 M	630306	7.4	2326	1450	114	110	255	14.0	684	204	280	5.0	0.84	0.7	738
32S/12E-13J01 M	630829	7.3	2700	1736	145	108	335	13.0	653	246	435	0.0	0.83	0.2	807
32S/12E-13J01 M	630926	7.4	2500	1776	152	94	310	15.0	653	253	442	0.0	0.93	0.4	766
32S/12E-13J01 M	640618	8.0	2450	1766	163	98	302	14.0	660	246	418	4.0	0.84	0.2	810
32S/12E-13J01 M	651007	7.9	3142	1929	139	140	340	12.0	659	248	533	0.0	0.90	0.6	923
32S/12E-13J01 M	670926	8.4	2769	1711	103	134	308	14.0	673	215	420	2.5	0.80	0.5	809
32S/12E-13A01 M	520716	7.3	2960	2080	180	158	305	12.0	535	680	290	81.0	0.57	0.4	1099
32S/12E-13A01 M	540928	8.0	2900		159	157	285	11.0	417	740	314	41.5		0.6	1043
32S/12E-13A01 M	541029	7.4	2740		162	158	272	13.0	422	737	307	39.2	0.72	0.6	1054
32S/12E-13A01 M	550518	7.8	3050	2040	145	175	301	13.0	471	716	312	34.0	0.96	1.2	1082
32S/12E-13A01 M	630306	7.1	2907	2115	171	155	300	14.0	504	724	298	35.0	0.92	0.8	1065
32S/12E-13A01 M	630828	7.4	2700	2056	164	139	310	12.0	513	727	296	24.0	0.84	0.8	981
32S/12E-13A01 M	670927	8.1	2771	2002	150	148	285	11.0	510	648	285	22.0	0.78	1.0	984
32S/12E-12R03 M	671004	7.9	2153	1346	79	88	300	18.0	997	1	143	23.0	1.50	0.4	559
32S/12E-12R02 M	630501	7.7	2175	1409	68	75	361	27.0	881	94	213	2.5	0.90	0.5	478
32S/12E-12R02 M	630828	7.6	2400	1472	137	38	405	24.0	1038	59	211	0.0	1.10	0.1	499
32S/12E-12R02 M	631016	8.1	1875	1270	145	41	298	18.0	983	4	149	6.4	1.52	0.2	531
32S/12E-12R01 M	631016	7.8	2050	1440	168	21	390	22.0	972	70	219	3.6	1.12	0.2	506
32S/12E-12R01 M	640708	8.4	2700	2152	202	126	290	12.0	457	677	355	0.0	1.00	0.4	1023
31S/14E-32G03 M	640603	8.0	838	554	78	43	40	2.0	243	157	32	1.5	0.03	0.5	372
31S/14E-32G03 M	711028	8.2	618	400	74	30	22	1.4	226	101	18	0.4	0.02	0.4	309
31S/14E-32G03 M	811020	8.5	756	477	80	37	22	1.9	253	113	17	4.0	0.00	0.4	352
31S/14E-31N02 M	711021	8.2	853	565	93	47	28	2.0	268	183	17	1.6	0.03	0.3	425
31S/14E-31N02 M	850416	8.3	849	588	97	46	28	2.6	272	186	20	1.6	0.00	0.5	431

FLS

AM 01701

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	FI mg/L	Total Hardness mg/L
31S/14E-31K01 M	640603	7.6	789	526	90	43	27	2.0	314	122	18	2.4	0.04	0.5	402
12N/35W-36Rx S	950301	7.1	1400	1300	110	77	140	13.0	320	340	130	nd		0.2	590
12N/35W-36R01 S	620823	7.1	780	622	41	30	62	3.0	64	51	177	4.0	0.03	0.4	226
12N/35W-36R01 S	640717	7.6	940	578	60	37	83	4.0	121	86	194	2.0	0.05	0.2	302
12N/35W-35P01 S	771014	6.9	227	132	7	3	31	0.9	29	4	41	5.9	0.03	0.1	29
12N/35W-35P01 S	871105	7.4	281	183	9	5	41	1.5	28	3	59	26.0	0.00	0.1	43
12N/35W-35J01 S	620823	7.1	350	268	12	5	50	3.0	50	9	72	0.0	0.05	0.6	51
12N/35W-35E03 S	640624	7.4	1100	716	94	59	57	3.0	300	197	71	5.0	0.10	0.2	477
12N/35W-34N01 S	620821	6.6	368	250	120	7	44	2.0	30	4	76	20.0	0.00	0.1	329
12N/35W-34G04 S	640624	7.6	1160	730	104	55	55	3.0	309	183	74	18.0	0.08	0.2	486
12N/35W-34C03 S	711021	8.1	1176	752	101	64	59	3.5	312	167	103	16.7	0.04	0.4	515
12N/35W-34C03 S	731016	8.4	1234	789	98	66	59	3.9	316	161	102	25.0	0.00	0.4	517
12N/35W-33R01 S	671103	7.3	293	181	9	7	36	2.0	41	9	51	14.0	0.00	0.1	52
12N/35W-33Q02 S	761004	7.4	256	133	7	3	35	1.2	26	4	48	14.0	0.02	0.1	30
12N/35W-33M01 S	871105	8.0	442	271	24	14	46	2.0	84	26	66	19.5	0.00	0.2	118
12N/35W-33J02 S	771014	8.1	937	558	81	46	42	2.1	239	137	58	29.2	0.03	0.4	391
12N/35W-33J02 S	811021	7.9	742	661	92	56	44	2.9	282	168	60	17.7	0.00	0.4	460
12N/35W-33J02 S	871105	8.2	843	579	61	56	45	2.9	206	175	64	15.3	0.10	0.4	382
12N/35W-33J01 S	640618	7.1	244	206	8	5	28	2.0	24	3	46	17.0	0.04	0.0	41
12N/35W-33J01 S	671031	7.0	229	162	4	6	28	2.0	20	4	44	17.0	0.00	0.1	35
12N/35W-33B02 S	671031	8.1	534	327	32	14	53	3.0	120	36		21.0	0.00	0.1	136
12N/35W-32R04 S	910918	6.9	624	355	32	18	49	1.6	112	48	62	19.0		0.2	156
12N/35W-32R02 S	930317	7.3	740	450	50	28	51	3.0	180	84	61	8.0		0.3	110
12N/35W-32Qx S	950202	6.6	340	220	7	4	53	1.0	32	12	65	30.0		nd	33
12N/35W-32P01 S	640619	7.6	370	210	13	4	65	2.0	52	11	76	20.0	0.15	0.2	49
12N/35W-32P01 S	671101	7.4	380	216	6	4	58	2.0	38	9	69	27.0	0.02	0.1	32
12N/35W-32N01 S	671101	7.2	426	246	6	8	66	2.0	43	9	87	27.0	0.04	0.2	48
12N/35W-32Gx S	960408	6.8	700	480	52	27	70		160	21	70	8.8		0.2	240
12N/35W-32F01 S	671102	7.8	796	487	55	31	68	3.0	185	106	81	13.0	0.08	0.3	265
12N/35W-32D01 S	610302	7.6	790		67	28	68	4.0	220	96	77	0.0	0.26	0.1	282
12N/35W-31H01 S	610302	7.5	1020		91	39	71	4.0	226	217	81	0.0	0.20	0.2	388
12N/35W-31H01 S	620823	7.4	980	718	97	35	64	5.0	208	232	67	0.0	0.12	0.4	386
12N/35W-31H01 S	640619	7.4	980	638	64	47	72	4.0	202	198	69	3.0	0.18	0.2	353
12N/35W-31G01 S	761004	7.7	1774	1351	196	98	76	4.3	338	552	110	2.7	0.11	0.8	896
12N/35W-31G01 S	771018	7.7	1821	1346	210	96	72	3.3	363	526	106	2.2	0.11	0.6	919
12N/35W-30P02 S	701020	7.8	2128	1705	230	153	58	3.0	413	693	128	38.0	0.07	0.9	1204
12N/35W-30M02 S	741108	8.2	1633	1144	152	102	57	2.0	244	491	98	52.0	0.07	0.8	799
12N/35W-30M01 S	610926	8.0	1985	1214	165	117	63	3.0	500	365	106	3.1	0.01	0.4	893
12N/35W-30M01 S	620713	7.7	1600	1140	151	105	61	5.0	492	355	59	0.0	0.00	0.1	809

FL6

AM 01702

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	FI mg/L	Total Hardness mg/L
12N/35W-30M01 S	640619	7.8	1775	1334	89	178	70	3.0	462	487	109	0.0	0.17	0.2	955
12N/35W-30L02 S	630707	7.7	1280	1398	128	162	67	1.0	471	519	89	18.0	0.12	0.2	986
12N/35W-30K03 S	711022	8.0	2347	1836	272	137	78	2.6	378	737	134	90.0	0.09	0.5	1242
12N/35W-29R03 S	691008	7.7	252	117	7	3	37	0.0	41	8	26	34.0	0.04	0.2	30
12N/35W-29R03 S	711026	7.0	244	155	4	4	37	1.0	38	10	26	31.5	0.04	0.1	25
12N/35W-29R01 S	620821	7.0	236	155	7	3	35	1.0	26	4	25	49.0	0.02	0.1	30
12N/35W-29R01 S	640414	6.2	205	174	8	2	36	1.0	30	4	23	46.0	0.07	0.2	28
12N/35W-29R01 S	640618	7.4	240	177	8	2	34	1.0	23	3	27	52.0	0.13	0.1	28
12N/35W-29N03 S	620712	7.5	705	428	49	27	62	4.0	164	84	75	4.0	0.10	0.2	234
12N/35W-29N02 S	610302	7.5	1460		158	89	69	2.0	334	389	120	0.0	0.10	0.3	761
12N/35W-29N02 S	630708	8.0	1860	1554	204	135	67	3.0	338	611	158	0.0	0.01	0.6	1065
12N/35W-29N01 S	640618	7.2	1727	1474	206	91	66	2.0	347	480	112	0.0	0.00	0.7	889
12N/35W-29N01 S	811015	7.9	2190	1680	264	129	77	3.0	400	645	137	110.0	0.00	0.6	1190
12N/35W-29N01 S	871105	8.5	1830	1630	201	132	68	2.4	319	639	127	36.6	0.10	0.6	1040
12N/35W-29M01 S	501112	7.4	1430	988	156	72	79	6.0	407	320	74	0.2	0.06		686
12N/35W-29L01 S	711022	8.0	1789	1317	184	101	80	2.1	333	463	112	94.5	0.06	0.5	874
12N/35W-28L01 S	671030	7.0	319	234	12	9	33	2.0	13	4	26	102.5	0.00	0.1	67
12N/35W-28J06 S	771014	7.0	516	309	30	13	39	1.7	40	23	41	113.0	0.00	0.2	129
12N/35W-28J02 S	771014	6.6	1015	649	72	29	58	2.3	16	60	101	243.0	0.01	0.1	299
12N/35W-28J02 S	871105	7.3	662	570	54	21	50	2.6	30	94	62	153.0	0.10	0.2	221
12N/35W-27N03 S	771006	8.1	1231	741	107	61	58	3.0	305	167	93	37.8	0.04	0.5	518
12N/34W-31M01 S	620711	8.0	1550	1190	182	83	55	2.0	356	405	109	0.0	0.07	0.2	796
12N/34W-31F01 S	751007	8.2	1382	924	144	67	58	4.3	281	338	102	0.0	0.51	0.6	638
11N/36W-13R01 S	520425	8.2	1220		114	57	82	4.0	133	502	43				519
11N/36W-13R01 S	570829	7.8	1332	957	131	56	78	4.0	204	463	45	2.1	0.50	0.1	558
11N/36W-13R01 S	580505	8.0	1299	819	140	57	80	4.0	210	465	58	0.9	0.30	0.4	584
11N/36W-13R01 S	580917	8.0	1195	927	113	60	70	8.0	133	467	43	13.0	0.09		529
11N/36W-13R01 S	590421	7.5	1307	983	161	44	77	4.0	204	468	47	2.0	0.34	0.1	583
11N/36W-13R01 S	600406	8.1	1208	856	114	58	73	3.0	158	440	48	0.0	0.10	0.2	523
11N/36W-13R01 S	610309	8.0	1280		140	52	69	4.0	201	449	45	1.4	0.23	0.1	564
11N/36W-13R01 S	620614	7.7	1260	992	142	55	68	4.0	210	451	45	0.0	0.24	0.1	581
11N/36W-13R01 S	620822	7.6	1266	993	137	56	72	4.0	204	452	40	0.5	0.21	0.5	573
11N/36W-13R01 S	630718	7.5	1279	985	138	55	84	4.0	210	456	42	2.2	0.20	0.4	571
11N/36W-13R01 S	631014	7.6	1160	1016	101	73	79	9.0	201	461	42	0.0	0.25	0.1	552
11N/36W-13R01 S	640506	7.9	1180	840	62	102	81	3.0	209	467	43	0.8	0.20	0.2	574
11N/36W-13R01 S	641006	8.3	1200	1005	141	54	78	4.0	219	452	41	2.0	0.16	0.5	574
11N/36W-13R01 S	650709	7.5	1313	1018	136	59	80	4.0	205	449	47	0.5	0.16	0.5	582
11N/36W-13R01 S	651108	8.0	1282	970	132	60	78	4.0	208	461	41	1.0	0.16	0.5	576
11N/36W-13R01 S	660412	8.1	1215	861	112	54	78	4.0	137	446	47	2.5	0.17	0.5	502

F17

AM 01703

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	FI mg/L	Total Hardness mg/L
11N/36W-13R01 S	661019	8.2	1280	1000	127	53	73	3.0	176	447	41	1.8	0.20		535
11N/36W-13R01 S	670523	8.0	1265	1064	125	56	72	4.0	180	447	40	1.8	0.17	0.4	543
11N/36W-13R01 S	671013	7.9	1170	983	113	53	78	4.0	146	443	45	1.0	0.15	0.4	500
11N/36W-13R01 S	680503	8.2	1340	1000	135	58	80	4.0	204	460	41	2.2	0.10	0.2	576
11N/36W-13R01 S	680920	7.7	1290	1002	127	59	75	3.0	199	460	40	1.5	0.15	0.4	560
11N/36W-13R01 S	690516	8.1	1138	900	107	55	76	3.0	130	446	41	0.4	0.17	0.5	494
11N/36W-13R01 S	690924	8.0	1271	1016	139	59	68	4.0	194	456	43	2.0	0.15	0.5	590
11N/36W-13R01 S	700409	8.1	1207	913	116	57	75	3.0	154	449	40	2.0	0.18	0.5	524
11N/36W-13R01 S	700916	8.1	1271	963	134	55	75	3.0	190	456	41	3.4	0.15	0.4	561
11N/36W-13R01 S	710324	7.9	1255	884	130	61	69	4.0	190	442	45	0.0	0.16	0.4	576
11N/36W-13R01 S	710920	8.1	1245	967	138	55	77	3.2	208	451	40	1.4	0.17	0.4	571
11N/36W-13R01 S	720321	8.1	1120	878	102	55	72	3.7	110	450	41	1.8	0.17	0.5	481
11N/36W-13R01 S	721106	7.9	1214	938	120	55	77	3.3	168	444	41	0.7	0.21	0.4	526
11N/36W-13R01 S	730524	8.0	1225	931	126	48	73	3.4	152	441	41	1.7	0.21	0.5	513
11N/36W-13R01 S	731018	7.8	1203	895	111	55	76	3.3	142	448	39	2.0	0.18	0.4	503
11N/36W-13R01 S	740527	8.5	1256	996	143	52	74	3.1	191	450	44	3.5	0.16	0.5	568
11N/36W-13R01 S	741024	9.5	1256	973	127	53	76	3.1	168	443	41	2.4	0.14	0.5	534
11N/36W-13R01 S	750515	8.1	1148	869	99	52	77	3.1	112	436	40	0.0	0.09	0.4	459
11N/36W-13R01 S	760922		1240		130	51	74	4.0	204	440	39	2.3	0.18	0.2	530
11N/36W-13R01 S	771020		1250	872	130	53	75	0.9	189	440	38		0.20		550
11N/35W-34E02 S	750925		1550	1040	180	64	70	3.3	312	410	52	48.7	0.23	0.4	710
11N/35W-33G01 S	850722	7.9	1300	990	153	54	66	3.5	258	364	44	52.0	0.30	0.5	604
11N/35W-33F02 S	271012			1040	146	53	71		176	466	41				580
11N/35W-33F01 S	531217	7.8	1650		229	51	89	4.0	207		88				782
11N/35W-33F01 S	560327		1530		134	79	101	4.3	93		96				660
11N/35W-33F01 S	580505	7.8	1872	1553	236	93	93	4.0	386	634	93	12.2	0.18	0.4	972
11N/35W-33F01 S	590526	7.9	1596	1173	144	82	89	4.0	162	588	86	15.0	0.34	0.3	697
11N/35W-33F01 S	590929	7.4	1895	1446	229	85	91	4.0	363	591	110	12.0	0.00	0.4	922
11N/35W-33F01 S	601013	7.6	1890	1460	228	91	97	4.0	385	618	92	15.0	0.08	2.3	944
11N/35W-33F01 S	610309	7.7	1675		180	84	90	4.0	214	627	96	9.7	0.31	0.1	795
11N/35W-33F01 S	611009	6.8	1920		206	120	91	4.0	395	602	98	8.0	0.32	0.1	1008
11N/35W-33F01 S	630719	7.0	1969	1585	253	90	110	5.0	418	662	93	6.7	0.28	0.7	1002
11N/35W-33F01 S	640506	7.9	1961	1559	256	92	99	4.0	406	628	101	10.0	0.27	0.5	1018
11N/35W-33F01 S	650709	7.1	2009	1618	234	103	103	4.0	404	637	102	8.5	0.24	0.6	1008
11N/35W-33F01 S	670523	8.1	2111	1784	162	99	184	4.0	192	834	105	2.8	0.33	0.8	812
11N/35W-33F01 S	671013	7.7	1841	1518	159	104	124	7.0	204	732	115	3.0	0.26	0.5	825
11N/35W-33F01 S	680503	8.2	2110	1590	250	94	106	5.0	422	655	93	7.5	0.30	0.3	1011
11N/35W-33F01 S	700916	7.7	1857	1458	186	98	115	4.0	263	873	111	8.0	0.28	0.6	868
11N/35W-33F01 S	710921	7.8	1744	1349	190	91	101	4.1	326	587	90	8.1	0.22	0.8	848

FL8

AM 01704

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	FI mg/L	Total Hardness mg/L
11N/35W-33F01 S	850722	7.9	1840	1440	220	80	98	4.9	328	564	72	80.0	0.20	0.6	878
11N/35W-29R01 S	520425	8.2	1180		107	58	74	4.0	115	466	48				506
11N/35W-28Q01 S	420415		1270	968	140	56	64	4.0	171	481	35			0.5	580
11N/35W-28L01 S	530423	8.1	1170		131	48	67	5.0	184		34	6.0			525
11N/35W-28L01 S	590929	8.2	1077	775	94	52	63	3.0	143	362	37	10.0	0.48	0.3	449
11N/35W-28L01 S	611005	7.9	1060		102	58	57	2.0	186	352	39	8.5	0.21	0.4	493
11N/35W-28L01 S	620615	7.8	1080	822	114	51	56	4.0	194	347	39	12.0	0.19	0.8	494
11N/35W-28L01 S	630718	7.5	1092	815	118	46	62	3.0	202	346	35	12.0	0.15	0.7	484
11N/35W-28L01 S	631014	8.2	990	808	137	30	61	3.0	195	344	35	10.0	0.19	0.2	466
11N/35W-28L01 S	641006	7.9	1088	810	121	49	58	3.0	202	346	37	13.0	0.18	0.8	504
11N/35W-28F02 S	640206	7.7	2663	2372	326	123	221	8.0	432	1145	140	3.6	0.50	0.8	1321
11N/35W-28F01 S	620822	7.6	1127	858	122	51	57	3.0	186	380	36	8.4	0.13	0.7	514
11N/35W-28B01 S	520910	7.8	1020		104	41	62	4.0	166		38		0.11		428
11N/35W-28B01 S	570405	7.1	898		93	38	54	3.0	161		37				389
11N/35W-28B01 S	590421	7.9	731	516	67	24	47	2.0	120	179	44	10.0	0.38	0.2	266
11N/35W-28B01 S	600406	8.1	873	620	82	32	52	3.0	141	234	44	10.0	0.01	0.3	336
11N/35W-28B01 S	611005	6.8	530		35	13	44	3.0	85	80	46	2.6	0.24	0.6	141
11N/35W-28B01 S	630718	7.8	872	625	84	37	54	3.0	156	254	37	8.3	0.18	0.5	362
11N/35W-28B01 S	631014	8.1	1020	840	127	38	63	3.0	179	370	37	8.6	0.19	0.4	474
11N/35W-28B01 S	641006	8.0	943	670	98	38	57	3.0	163	290	42	10.0	0.14	0.6	401
11N/35W-27Q01 S	570829	8.0	1135	799	113	48	59	3.0	182	365	40	5.5	0.80	0.2	480
11N/35W-27Q01 S	581218	7.9	1105	821	120	46	50	3.0	176	369	35	6.6	0.12	0.4	489
11N/35W-27Q01 S	601117	7.5	1069		111	47	58	3.0	178	361	39	5.7	0.19	1.0	471
11N/35W-27Q01 S	620822	7.7	1065	772	148	29	53	4.0	177	361	40	7.0	0.14	0.6	489
11N/35W-26M01 S	580917	8.7	855	711	99	50	55	3.0	165	332	46	12.0	0.08	0.2	453
11N/35W-26M01 S	590421	8.2	985	715	103	37	61	3.0	154	301	35	12.0	0.41	0.6	409
11N/35W-26M01 S	610309	8.0	815		74	56	54	2.0	108	299	63	18.0	0.19	0.2	415
11N/35W-26M01 S	611005	7.8	940		75	50	53	2.0	165	261	44	13.0	0.18	0.3	393
11N/35W-26M01 S	620920	8.0	830	646	95	31	50	2.0	167	234	45	14.0	0.11	0.2	365
11N/35W-26M01 S	630718	7.3	857	600	78	34	56	2.0	142	234	43	13.0	0.06	0.4	335
11N/35W-26M01 S	650709	7.5	793	548	68	31	50	2.0	122	193	51	9.0	0.07	0.4	297
11N/35W-26M01 S	651108	8.0	693	440	66	23	44	2.0	127	148	45	19.0	0.06	0.3	259
11N/35W-26M01 S	660412	8.3	872	570	88	32	51	2.0	150	222	50	18.0	0.06	0.0	351
11N/35W-26M01 S	661019	8.4	937	651	95	33	53	3.0	157	241	49	16.0	0.10		373
11N/35W-26M01 S	671013	8.1	767	517	72	27	48	2.0	130	178	50	21.0	0.06	0.3	291
11N/35W-26M01 S	680503	8.6	952	661	105	27	55	2.0	154	244	44	19.0	0.10	0.3	373
11N/35W-26M01 S	690516	8.3	1398	1123	153	57	84	3.0	119	505	77	67.5	0.11	0.5	617
11N/35W-25L01 S	570829	7.5	1056	728	95	64	54	3.0	158	365	49	9.8	0.20	0.2	500
11N/35W-25L01 S	601118	7.4	929		101	48	53	3.0	157	279	48	13.0	0.13	0.5	450

F19

AM 01705

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	FI mg/L	Total Hardness mg/L
11N/35W-24L03 S	910801	7.5	520	298	44	11	38	1.6	70	107	34	26.6	<	0.1	156
11N/35W-24L03 S	931019	7.6	910	587	94	32	55	2.3	130	279	34	12.8		0.6	366
11N/35W-24L02 S	870716	7.3	160		10	1	24	1.1	19	2	29	28.1		0.1	30
11N/35W-24L02 S	881012	6.8	210	124	10	4	28	3.0	61	< 1	31	< 1.0	<	0.1	41
11N/35W-24L02 S	900122	7.2	430	254	32	17	32	1.6	81	67	32	23.1	<	0.1	149
11N/35W-24L02 S	930117	7.1	260	174	14	3	41	1.1	23	23	52	28.3		0.2	50
11N/35W-24L02 S	930301	6.7	210	113	10	3	26	1.1	19	6	32	25.7		0.1	36
11N/35W-24L02 S	930420	6.8	240	138	11	3	33	1.4	26	16	31	27.4	<	0.1	40
11N/35W-24L02 S	931019	7.4	390	219	27	10	35	1.4	76	52	26	21.7	<	0.1	108
11N/35W-24L01 S	880628	6.7	200	118	7	2	31	1.5	24	4	31	28.5	<	0.1	24
11N/35W-24L01 S	900129	7.3	320	182	23	7	34	1.7	43	53	35	26.6	<	0.1	86
11N/35W-24L01 S	930118	7.2	210	122	8	1	32	1.2	19	7	32	31.2		0.1	24
11N/35W-24L01 S	930222	7.2	240	144	9	11	30	1.1	60	3	30	30.9		0.1	66
11N/35W-24L01 S	931018	7.2	190	123	8	2	33	1.2	33	5	28	27.0	<	0.1	27
11N/35W-24J01 S	800701	7.8	800		53	28	67	1.6	172	116	75	1.0		0.2	250
11N/35W-24J01 S	820503	7.4	710	414	50	17	71	3.8	156	77	81	2.0		0.2	196
11N/35W-24J01 S	850703	5.7	990	725	83	39	69	2.6	178	241	67	4.5		0.2	388
11N/35W-24J01 S	870715	8.0	1120	710	132	26	58	2.5	178	303	47	7.9		0.4	434
11N/35W-24J01 S	900122	7.48	1100	649	114	34	59	2.7	225	236	52	11.9		0.7	426
11N/35W-24J01 S	930117	7.6	930	558	92	32	53	2.3	156	213	67	21.2		0.3	360
11N/35W-24J01 S	931019	7.7	1060	696	107	40	66	2.6	186	298	50	19.3		0.7	434
11N/35W-24D01 S	620821	7.9	191	130	4	3	29	1.0	26	2	39	6.5	0.01	0.1	23
11N/35W-24A01 S	891030	7.2	1130	667	91	34	85	3.0	250	157	106	3.6		0.9	368
11N/35W-24A01 S	930118	7.6	1090	599	80	39	82	2.8	221	172	111	3.2		0.1	
11N/35W-24A01 S	931019	7.6	1000	574	64	39	87	2.6	230	136	102	3.9		0.4	320
11N/35W-22D01 S	620821	7.4	776	545	88	21	52	3.0	118	240	38	1.0	0.02	0.3	306
11N/35W-21K01 S	640619	7.8	615	376	53	15	54	2.0	128	104	55	3.0	0.13	0.2	194
11N/35W-21K01 S	731011	7.4	1326	1081	137	62	81	3.5	182	513	43	1.6	0.18	0.4	596
11N/35W-21K01 S	741112	8.2	1372	1032	139	58	50	4.3	142	500	45	1.5	0.20	0.6	587
11N/35W-21K01 S	751010	8.0	1365	1086	155	53	81	3.1	206	505	44	2.4	0.18	0.7	604
11N/35W-21K01 S	761007	7.7	1338	1028	142	55	83	3.5	175	501	48	2.0	0.21	0.7	581
11N/35W-21K01 S	771024	8.1	1269	950	141	43	76	2.8	185	433	41	0.6	0.22	0.5	529
11N/35W-21K01 S	791106	7.8	1070	726	115	38	62	2.9	160	349	41	2.8	0.10	0.3	443
11N/35W-21K01 S	871019	8.2	440	317	40	13	35	1.6	86	85	38	4.8	0.00	0.1	154
11N/35W-20K03 S	640206	7.3	1165	832	122	42	74	4.0	246	221	124	3.2	0.12	0.7	477
11N/35W-20E01 S	620822	7.4	730	514	70	25	48	3.0	133	187	41	11.0	0.13	0.1	278
11N/35W-19K02 S	791102	7.7	297	198	13	6	34	2.5	44	6	54	9.7	0.00	0.3	57
11N/35W-19E02 S	520425		1260		140	52	80	4.9	213	410	49				550
11N/35W-19E02 S	540920	7.3	1240		49	108	85	4.0	213	426	50	2.0	0.26	0.3	567

F20

AM 01706

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	FI mg/L	Total Hardness mg/L
11N/35W-19E02 S	570405		1260		140	57	79	3.4	213		44				580
11N/35W-19E02 S	580917	8.1	1209	906	105	58	73	4.0	130	446	50	5.0	0.05		501
11N/35W-19E02 S	590610	8.0	1308	960	136	52	76	3.0	208	429	48	3.0	0.54	0.1	554
11N/35W-19E02 S	611005	6.8	2100		226	92	160	14.0	347	761	112	2.6	0.36	0.4	943
11N/35W-19E02 S	620614	8.2	1285	1014	147	52	72	4.0	218	451	51	2.0	0.17	0.1	581
11N/35W-19E02 S	630718	7.5	1211	900	130	49	80	4.0	214	407	43	2.8	0.15	0.4	526
11N/35W-19E02 S	650709	7.5	1322	1000	133	58	85	4.0	215	433	52	1.0	0.16	0.5	571
11N/35W-19E02 S	671013	7.9	1234	965	113	56	86	5.0	175	443	53	1.5	0.15	0.4	513
11N/35W-19E02 S	680503	8.4	1290	927	129	53	81	4.0	205	423	44	2.9	0.10	0.2	540
11N/35W-19E02 S	690516	8.1	1061	825	89	52	78	3.0	102	415	45	3.2	0.15	0.4	436
11N/35W-19C02 S	640206	7.4	2139	1738	215	119	152	5.0	409	767	113	5.2	0.40	1.0	1027
11N/35W-18M01 S	570405	7.2	1280		123	66	83	4.0	154		47				579
11N/35W-18M01 S	580505	8.1	1368	1000	150	59	86	5.0	190	517	63	0.9	0.29	0.2	617
11N/35W-18M01 S	580917	8.2	1335	1090	145	63	78	4.0	178	528	46	4.4	0.27	0.2	621
11N/35W-18M01 S	590930	7.9	1307	983	135	60	82	4.0	166	514	53	0.0	0.24	0.0	584
11N/35W-18M01 S	600406	8.3	1389	1020	134	62	84	4.0	173	514	56	0.0	0.00	0.0	590
11N/35W-18M01 S	620920	8.0	1280	1140	141	60	74	4.0	193	485	14	0.0	0.20	0.1	599
11N/35W-18M01 S	631014	8.2	1220	1034	143	52	85	4.0	171	517	48	0.0	0.21	0.1	571
11N/35W-18M01 S	640506	8.0	1290	1168	83	101	88	4.0	198	538	50	0.0	0.16	0.2	623
11N/35W-18M01 S	641006	8.3	1380	1110	148	64	80	4.0	193	516	48	1.0	0.17	0.6	633
11N/35W-18M01 S	660412	8.3	1388	1026	142	64	81	4.0	177	509	53	1.0	0.14	0.0	618
11N/35W-18M01 S	661018	8.0	1430	1130	150	60	75	4.0	189	526	48	1.5	0.20		621
11N/35W-18M01 S	671013	8.1	1353	1087	146	57	87	5.0	183	582	50	1.0	0.14	0.4	599
11N/35W-18M01 S	680503	8.3	1420	1090	143	74	81	5.0	183	520	47	0.4	0.10	0.1	662
11N/35W-18M01 S	680920	8.1	1350	1110	147	61	82	4.0	188	521	45	0.5	0.16	0.4	618
11N/35W-18M01 S	690516	8.4	1336	1064	152	62	79	4.0	197	521	48	0.5	0.14	0.5	635
11N/35W-18M01 S	690924	8.0	1384	1081	138	74	71	4.0	189	528	48	1.0	0.15	0.4	649
11N/35W-18M01 S	700409	7.7	1386	1065	149	63	82	4.0	194	517	46	0.6	0.16	0.5	631
11N/35W-18M01 S	700916	8.3	1379	1096	148	66	105	8.0	268	455	84	5.0	0.20	0.7	641
11N/35W-18M01 S	710324	7.9	1570	1077	151	75	106	6.6	262	476	98	0.0	0.20	0.6	683
11N/35W-18M01 S	730524	8.7	1734	1329	176	78	128	5.5	311	550	103	2.0	0.21	0.7	762
11N/35W-18M01 S	731018	7.8	1173	900	118	54	66	2.3	180	331	50	73.0	0.96	0.5	517
11N/35W-17D01 S	611106	7.6	1300	1025	150	56	67	4.0	196	471	45	3.5	0.16	0.6	605
11N/35W-17D01 S	620712	7.7	1270	980	139	57	64	3.0	193	460	45	2.0	0.20	0.2	582
11N/35W-14Q01 S	620822	8.1	1344	1020	138	71	78	3.0	232	461	55	29.0	0.17	0.6	637
11N/35W-14Q01 S	640618	7.9	568	395	40	19	42	2.0	108	75	56	8.5	0.05	0.1	178
11N/35W-13K01 S	761006	8.0	827	503	54	34	68	2.3	206	106	81	0.0	0.04	0.2	275
11N/35W-13G01 S	771021	8.1	525	292	33	14	47	1.6	112	40	54	14.4	0.02	0.3	140
11N/35W-13F01 S	920220	7.6	700	410	41	22	58	3.0	139	72	74	7.1		< 0.1	210

F21

AM 01707

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No	Date yr/mo/da	pH	EC		TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	FI mg/L	Total Hardness mg/L
			lab	µmhos/cm												
11N/35W-13D01 S	620711	7.6	lab	1145	752	81	47	96	4.0	285	171	111	0.0	0.10	0.1	396
11N/35W-13D01 S	640618	7.5		1143	724	77	50	91	3.0	264	174	106	1.5	0.00	0.1	398
11N/35W-13C01 S	620802	6.8		260	170	10	6	31	2.0	40	2	42	19.0	0.02	0.1	50
11N/35W-13C01 S	761006	7.5		343	214	19	6	35	1.6	53	13	47	23.0	0.01	0.3	72
11N/35W-13C01 S	811021	8.0		589	362	36	18	51	2.2	132	48	58	12.2	0.00	0.3	164
11N/35W-12F01 S	791031	7.6		220	85	7	4	33	1.3	29	4	49	6.6	0.00	0.2	34
11N/35W-12E02 S	731012	7.8		706	474	51	25	65	2.7	184	59	95	0.1	0.00	0.0	228
11N/35W-12E02 S	761006	8.0		881	540	65	30	68	3.1	190	75	124	1.3	0.06	0.3	285
11N/35W-12E02 S	791105	7.1		295	188	8	4	42	1.4	32	4	52	27.0	0.00	0.3	36
11N/35W-12E01 S	531029	7.3		236	173	6	7	32	1.0	43	6	44	3.0	0.00	0.3	44
11N/35W-12E01 S	601006	7.0		256		10	6	27	1.0	40	7	46	1.6	0.00	0.2	50
11N/35W-12E01 S	611117	7.6		236	170	8	6	28	1.0	35	5	46	4.3	0.01	0.3	45
11N/35W-12E01 S	620711	6.8		313	190	15	6	35	2.0	52	7	54	1.0	0.02	0.1	62
11N/35W-12E01 S	621010	7.1		257	158	11	4	29	1.0	40	4	46	4.2	0.00	0.5	44
11N/35W-12E01 S	630927	7.1		339	242	21	6	39	2.0	60	11	60	3.1	0.14	0.2	77
11N/35W-12E01 S	631206	7.1		230	166	11	4	32	1.0	43	7	44	0.9	0.03	0.2	44
11N/35W-12E01 S	640618	6.9		447	295	27	10	42	2.0	68	17	82	2.0	0.06	0.3	109
11N/35W-12E01 S	651008	8.2		528	290	37	13	48	2.0	104	30	84	2.2	0.05	0.2	146
11N/35W-11J03 S	881004	7.5		500	320	32	15	49	4.0	100	47	71	5.8		< 0.1	130
11N/35W-11J03 S	920220	7.5		800	480	44	28	65	< 3.0	148	84	91	3.9		< 0.1	240
11N/35W-11J02 S	811120	8.2		900	630	59	32	85		164	140	92	13.0		0.1	320
11N/35W-11J01 S	620801	6.8		240	164	9	4	31	1.0	39	4	46	4.0	0.00	0.1	39
11N/35W-11J01 S	640618	6.8		254	192	9	5	30	1.0	30	5	48	6.5	0.00	0.1	43
11N/35W-11J01 S	731012	6.5		233	188	11	3	30	1.2	30	4	49	9.3	0.00	0.2	39
11N/35W-11J01 S	761006	7.5		247	150	9	4	30	1.2	28	6	48	6.2	0.02	0.3	38
11N/35W-11J01 S	771021	7.6		261	157	10	3	33	1.0	30	7	47	7.4	0.02	0.3	38
11N/35W-11J01 S	791105	7.3		244	174	10	4	31	1.3	30	6	48	6.6	0.00	0.4	42
11N/35W-11J01 S	811021	7.3		262	183	8	5	30	1.1	30	4	47	5.9	0.00	0.3	40
11N/35W-11J01 S	871016	8.2		878	750	89	47	52	2.8	147	302	43	4.4	0.10	0.4	415
11N/35W-11C01 S	761006	8.0		792	471	54	25	70	3.1	185	74	96	1.8	0.07	0.3	238
11N/35W-11C01 S	771021	8.3		850	469	57	28	74	2.4	187	72	108	3.0	0.03	0.2	257
11N/35W-11B01 S	620801	6.9		243	156	11	2	30	1.0	36	2	46	3.0	0.00	0.1	36
11N/35W-10R02 S	741108	7.5		350	232	15	10	34	2.0	42	36	46	17.0	0.00	0.3	78
11N/35W-10R01 S	620822	7.0		229	150	7	2	35	2.0	26	4	48	7.0	0.01	0.1	26
11N/35W-10R01 S	640618	7.9		236	168	7	3	32	1.0	25	5	47	7.5	0.00	0.0	30
11N/35W-10R01 S	731012	6.6		241	161	5	3	32	1.6	20	8	44	8.2	0.00	0.0	25
11N/35W-10R01 S	741108	7.2		232	153	5	3	32	2.0	18	6	45	8.8	0.00	0.3	22
11N/35W-10R01 S	811021	7.0		198	172	6	3	33	2.3	24	4	47	7.8	0.00	0.1	28
11N/35W-10M01 S	620821	6.9		270	160	9	4	39	2.0	42	3	53	5.0	0.02	0.1	39

F22

AM 01708

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	Fl mg/L	Total Hardness mg/L
11N/35W-10M01 S	640618	7.3	280	180	9	4	36	2.0	43	2	51	6.5	0.00	0.1	39
11N/35W-10J02 S	920220	7.1	800	510	60	34	70	7.0	170	24	68	22.0		< 0.1	270
11N/35W-10G05 S	890627	6.0	720	480	33	29	58	< 3.0	90	170	42	4.0		0.0	290
11N/35W-10G05 S	900524	7.2	401	264	21	11	48		64	70	46	8.0			99
11N/35W-10G05 S	910805	7.0	288	248	18	11	39		59	45	41	11.2			91
11N/35W-10G05 S	920806	6.7	364	282	22	9	41	2.0	56	58	49	8.4			94
11N/35W-10G04 S	880812	7.1	698	474	57	29	60		143	167	48				261
11N/35W-10G04 S	890503	7.4	700	475	50	26	60		123	150	51	6.2			231
11N/35W-10G04 S	900524	7.3	639	470	55	28	54		114	167	50	5.3			251
11N/35W-10G04 S	901107	7.6	646	490	57	28	45		133	155	44	5.3			259
11N/35W-10G04 S	910805	7.0	549	492	55	29	51		134	170	41	6.1			256
11N/35W-10G04 S	920806	6.9	637	468	48	23	52	2.0	82	177	47	6.6			214
11N/35W-10G03 S	860429	8.3	824	522	53	29	77		178	105	83	2.6		0.3	252
11N/35W-10G03 S	870618	7.9	734	554	53	26	53		120	153	48				238
11N/35W-10G03 S	880812	7.5	781	487	53	28	78		216	92	78				248
11N/35W-10G03 S	890503	8.0	930	568	55	32	96		251	108	94	1.8			270
11N/35W-10G03 S	891106	8.0	957	610	58	36	100		263	104	84	0.4			293
11N/35W-09P01 S	590727	6.6	286	213	11	5	34	2.0	35	4	53	8.0	0.16	0.0	48
11N/35W-09P01 S	620712	6.8	285	190	11	5	34	2.0	39	2	52	8.0	0.00	0.1	48
11N/35W-09P01 S	621011	7.2	265	206	16	4	35	4.0	48	11	48	7.0	0.05	0.2	57
11N/35W-09P01 S	630927	7.3	292	180	10	7	35	2.0	46	3	52	9.5	0.02	0.2	54
11N/35W-09P01 S	631206	7.0	250	179	14	3	36	2.0	39	15	48	4.4	0.05	0.1	48
11N/35W-09P01 S	641015	7.2	289	207	12	6	33	2.0	39	8	53	12.0	0.00	0.0	55
11N/35W-09P01 S	651011	7.8	293	206	12	5	34	2.0	40	11	50	11.0	0.01	0.1	51
11N/35W-09P01 S	701019	7.9	304	210	11	7	35	2.0	36	14	50	13.0	0.00	0.0	56
11N/35W-09P01 S	711026	7.2	290	171	11	6	35	2.1	38	11	50	12.0	0.00	0.0	54
11N/35W-09P01 S	850419	7.9	308	204	13	7	35	2.6	44	16	50	12.9	0.00	0.1	62
11N/35W-09K05 S	811120	7.3	250	175	11	5	35		33	10	48	22.0		0.1	80
11N/35W-09K04 S	741107	6.9	316	126	10	7	34	2.3	44	7	52	9.2	0.00	0.1	54
11N/35W-09K04 S	761006	7.5	337	197	23	5	33	2.3	65	6	54	9.1	0.02	0.1	77
11N/35W-09K04 S	811019	7.3	290	208	10	7	34	2.2	42	5	52	10.2	0.00	0.1	54
11N/35W-09K02 S	761005	7.4	308	186	15	5	35	2.3	43	4	57	8.7	0.02	0.1	57
11N/35W-09K02 S	771020	7.6	317	159	12	5	35	2.0	46	5	54	9.3	0.01	0.0	51
11N/35W-09K02 S	771020	7.4	303	182	12	5	35	1.7	43	4	52	10.1	0.02	0.1	51
11N/35W-09K02 S	871105	7.3	311	210	16	8	33	2.2	49	15	54	8.5	0.00	0.2	73
11N/35W-09K01 S	620712	6.9	300	206	13	6	38	2.0	51	6	53	6.0	0.05	0.2	57
11N/35W-09J02 S	921027	6.5	300	200	7	4	38	< 3.0	34	7	50	9.3		< 0.1	30
11N/35W-09J02 S	940510	7.2	460	340	18	9	56	3.0	52	47	71	20.0		0.1	82
11N/35W-09G01 S	651013	7.8	626	381	42	24	45	2.0	114	107	56	4.0	0.06	0.2	204

F23

AM 01709

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	Fl mg/L	Total Hardness mg/L
11N/35W-09Cx S	960304	6.8	390	240	14	7	48		50	30	56	18.0		nd	65
11N/35W-07R01 S	640618	7.5	1241	986	138	50	66	3.0	190	421	46	2.3	0.15	0.5	550
11N/35W-07R01 S	651008	8.0	1178	880	125	49	70	4.0	146	443	43	2.8	0.18	0.4	514
11N/35W-07R01 S	741107	7.9	1359	1005	138	60	76	3.4	192	477	43	2.4	0.17	0.5	591
11N/35W-07A01 S	531029	7.8	1070		121	46	62	4.0	183	360	46	1.9	0.32	0.2	491
11N/35W-07A01 S	540405	7.5			122	43	60		187	355	39				482
11N/35W-07A01 S	611106	7.7	1148	860	124	50	64	3.0	190	386	41	2.0	0.14	0.4	515
11N/35W-07A01 S	620712	7.5	1180	808	110	46	62	4.0	182	360	41	0.0	0.20	0.2	464
11N/35W-06H01 S	620712	6.9	475	302	9	8	70	4.0	41	22	86	27.0	0.10	0.1	56
11N/35W-06C01 S	601103	8.0	1025	758	118	39	55	3.0	178	331	35	4.2	0.12	0.7	455
11N/35W-06C01 S	620822	7.6	850	580	85	31	56	3.0	148	232	49	9.5	0.10	0.4	340
11N/35W-05R01 S	771020	7.2	306	174	13	5	35	1.6	60	5	48	3.3	0.00	0.1	53
11N/35W-05N02 S	750315	8.0	1070	809	112	42	65	3.5	176	349	38	3.1	0.13	0.4	454
11N/35W-05N01 S	611106	7.1	315	220	9	6	42	1.0	30	5	50	48.0	0.04	0.2	47
11N/35W-05N01 S	620712	6.9	475	270	9	7	69	2.0	43	16	86	28.0	0.10	0.2	52
11N/35W-05L02 S	671101	7.0	363	222	5	5	56	1.0	33	12	69	12.0	0.03	0.2	33
11N/35W-05L01 S	621019	7.4	690	570	64	24	48	3.0	138	148	48	6.0	0.12	0.2	258
11N/35W-05L01 S	630927	8.1	704	475	59	27	52	3.0	136	159	49	5.0	0.08	0.3	258
11N/35W-05L01 S	641015	7.8	711	485	60	28	47	3.0	129	158	53	6.7	0.03	0.2	265
11N/35W-05L01 S	651011	8.0	700	430	57	27	50	3.0	124	156	52	6.0	0.06	0.3	253
11N/35W-05L01 S	691008	7.6	690	396	55	26	43	2.0	114	150	51	7.0	0.06	0.3	245
11N/35W-05L01 S	701019	8.1	692	480	56	25	50	3.0	115	147	51	8.0	0.06	0.2	243
11N/35W-05L01 S	711026	7.9	670	440	56	26	48	2.6	119	153	50	7.0	0.06	0.1	247
11N/35W-05L01 S	741104	7.3	752	441	53	26	48	2.8	118	150	48	7.2	0.03	0.2	239
11N/35W-05L01 S	771020	8.3	718	447	57	24	48	2.1	121	146	48	7.1	0.05	0.3	241
11N/35W-05L01 S	791102	7.8	672	433	55	23	48	2.9	119	144	48	7.7	0.10	0.4	232
11N/35W-05L01 S	850419	8.2	650	459	53	23	46	2.8	122	136	48	0.9	0.10	0.3	226
11N/35W-05J01 S	871105	8.0	1170	764	63	68	96	2.7	226	187	145	33.0	0.10	0.6	436
11N/35W-05G02 S	771020	7.0	494	252	13	8	64	1.1	37	12	70	69.8	0.09	0.2	66
11N/35W-05G02 S	811019	7.4	398	303	8	7	58	1.2	34	8	66	47.2	0.00	0.2	49
11N/35W-05G02 S	871105	7.5	327	197	6	4	62	1.3	46	6	62	33.0	0.10	0.2	32
11N/35W-05F01 S	910918	6.8	760	458	55	22	45	2.0	106	135	56	13.5		0.2	228
11N/35W-05D06 S	671101	7.1	485	264	3	7	82	1.0	46	9	101	28.0	0.05	0.3	37
11N/35W-05B02 S	930317	6.8	380	230	8	5	53	2.0	41	7	65	29.0		< 0.3	20
11N/35W-05B01 S	930317	6.7	360	210	7	5	52	1.0	30	9	64	29.0		0.2	10
11N/35W-03C01 S	620801	6.8	250	154	8	2	35	2.0	28	3	52	6.0	0.02	0.1	28
11N/35W-03C01 S	771014	7.3	364	182	7	4	50	1.0	39	6	65	13.5	0.00	0.1	32
11N/35W-02N01 S	931109	7.6	720	420	59	23	51	2.3	106	167	49	5.8		0.3	240
11N/35W-02N01 S	931214	7	250	142	9	5	35	1.5	35	11	48	12.1		< 1.0	44

nd = nondetect

F24

AM 01710

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	FI mg/L	Total Hardness mg/L
11N/35W-02F01 S	761001	7.2	288	161	15	4	34	1.6	49	8	45	8.0	0.03	0.2	53
11N/35W-02F01 S	771014	7.2	264	147	9	4	35	1.0	39	7	42	9.3	0.00	0.1	38
11N/35W-01N01 S	620711	6.9	310	190	13	5	39	1.0	48	0	61	8.0	0.05	0.1	53
11N/34W-33K01 S	750928		1375		150	50	86	4.2	251	350	88	0.9	0.29	0.3	580
11N/34W-33J01 S	750926		1600		160	77	75	3.2	311	340	160	21.3	0.16	0.4	720
11N/34W-31C01 S	750925		1500		160	61	53	3.2	187	400	51	128.5	0.14	0.3	650
11N/34W-30Q01 S	620822	7.4	1260	1028	158	52	57	3.0	212		37	105.0	0.11	0.1	608
11N/34W-30Q01 S	850724	7.9	970	687	105	40	56	2.9	180	292		4.2	0.10	0.6	426
11N/34W-30D02 S	731011	8.2	1210	890	117	56	62	2.7	185	396	40	3.4	0.00	0.6	521
11N/34W-30D02 S	761007	8.0	1174	886	127	49	65	3.1	181	404	42	4.0	0.14	0.8	519
11N/34W-30D02 S	791106	8.1	1140	834	126	48	64	3.1	185	396	41	4.7	0.10	0.8	512
11N/34W-30D02 S	811020	7.7	1050	875	127	48	63	4.4	186	387	41	4.7	0.10	0.6	514
11N/34W-29P02 S	420415		1190	863	123	51	65	3.0	176	368	68	2.0		0.3	517
11N/34W-29P02 S	580916	7.7	977	715	97	41	64	3.0	178	251	76	16.0	0.10	0.6	411
11N/34W-29P02 S	590421	8.1	1006	715	95	39	61	2.0	167	240	69	16.0	0.19	0.3	398
11N/34W-29P02 S	620614	7.9	1050	764	105	41	61	2.0	179	244	73	45.0	0.14	0.2	431
11N/34W-29P02 S	620822	7.3	925	676	84	35	63	3.0	197	189	60	12.0	0.06	0.1	354
11N/34W-29P02 S	620919	8.0	1020	832	104	41	59	2.0	193	266	70	39.0	0.16	0.2	428
11N/34W-29P02 S	631014	7.8	1040	844	83	63	70	2.0	170	293	66	67.0	0.13	0.2	466
11N/34W-29P02 S	641006	7.4	1149	907	115	48	65	3.0	173	295	66	66.0	0.12	0.6	485
11N/34W-29P02 S	650709	7.4	1099	772	102	47	65	2.0	184	258	66	49.0	0.08	0.6	448
11N/34W-29P02 S	660412	8.0	1078	769	95	42	64	2.0	137	264	73	51.0	0.08	0.5	410
11N/34W-29P02 S	670516		1050	678	90	49	68	2.0	129	285	65		0.06	0.5	426
11N/34W-29P02 S	671012	7.9	1128	783	99	51	70	3.0	145	288	80	73.0	0.09	0.5	457
11N/34W-29P02 S	671019		1250	892	102	61	68	2.9	168	301	79		0.00		504
11N/34W-29P02 S	680920	7.7	1526	848	118	49	64	2.0	192	276	69	60.0	0.11	0.5	496
11N/34W-29P02 S	690516	8.0	1054	678	90	49	68	2.0	128	285	65	64.5	0.06	0.5	426
11N/34W-29P02 S	690924	7.5	1174	826	114	50	57	2.0	193	291	55	55.0	0.11	0.5	490
11N/34W-29P02 S	700409	8.1	962	661	80	44	62	2.0	148	264	45	36.0	0.11	0.6	381
11N/34W-29P02 S	700916	8.3	942	692	98	42	60	2.0	185	269	44	30.0	0.10	0.6	418
11N/34W-29P02 S	710324	7.7	1011	661	104	46	61	3.0	177	285	42	92.0	0.06	0.5	449
11N/34W-29P02 S	710920	8.1	996	724	102	43	63	2.3	176	298	40	34.0	0.11	0.5	430
11N/34W-29P02 S	720320	8.2	1028	785	111	45	62	2.7	172	315	44	45.0	0.10	0.6	462
11N/34W-29P02 S	730524	8.0	1072	789	100	47	59	2.4	128	323	48	56.0	0.09	0.6	444
11N/34W-29P02 S	740527	8.2	983	741	98	46	51	2.3	161	312	34	12.0	0.15	0.6	436
11N/34W-29P02 S	741030	8.0	1155	923	128	49	66	2.3	183	337	56	70.0	0.11	0.5	522
11N/34W-29P02 S	750515	8.3	1216	915	131	49	64	2.7	188	332	54	76.0	0.06	0.6	528
11N/34W-29P02 S	751204		1240		130	48	67	2.6	189	310	58	75.3	0.11	0.3	520
11N/34W-29P02 S	760922		1220		130	53	66	2.9	189	360	57	88.6	0.11	0.4	540

F25

AM 01711

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	Fl mg/L	Total Hardness mg/L
11N/34W-29P02 S	771020		1230	952	130	53	68	2.5	189	350	55		0.10		540
11N/34W-27G02 S	751008	8.3	1467	879	115	59	110	2.7	313	140	184	62.0	0.99	0.2	528
11N/34W-27E01 S	751008	8.2	961	472	46	38	90	5.9	219	76	126	0.0	0.60	0.4	270
11N/34W-27D01 S	680731	7.3	752	405	36	22	87	2.0	162	69	80	32.0	0.04	0.2	180
11N/34W-20J01 S	620822	7.4	1350	900	94	62	122	3.0	322	232	137	1.0	0.06	0.4	490
11N/34W-20E03 S	710521	7.9	781	473	52	28	66	3.0	190	95	71	0.0	0.05	0.1	245
11N/34W-19Q01 S	580917	8.6	1025	743	100	45	58	3.0	165	291	64	8.9	0.06	0.2	435
11N/34W-19Q01 S	590421	8.0	1051	755	98	45	64	3.0	174	284	66	3.0	0.81	0.3	430
11N/34W-19Q01 S	590911	7.6	1085	770	99	45	64	3.0	176	282	66	6.0	0.18	0.3	432
11N/34W-19Q01 S	600408	8.0	1082	770	98	47	62	3.0	176	289	68	6.0	0.12	0.4	438
11N/34W-19Q01 S	601013	8.3	925	630	89	36	56	2.0	166	220	67	6.8	0.08	0.5	370
11N/34W-19Q01 S	611005	7.6	755		74	26	51	2.0	152	148	65	6.0	0.14	0.3	292
11N/34W-19Q01 S	620920	8.1	780	584	72	33	52	3.0	160	176	64	4.0	0.13	0.2	315
11N/34W-19L04 S	890814	7.9	970	592	82	23	83	3.9	230	114	98	< 1.0		0.2	342
11N/34W-19L03 S	670805		714	404	46	16	69		149	81	77	1.2		0.1	181
11N/34W-19L03 S	670909	7.4	634	417	41	20	61		138	68	81	4.0		0.1	181
11N/34W-19L03 S	750630	7.3	1030	565	77	30	76	4.8	216	130	95	0.4		0.2	318
11N/34W-19L03 S	781016	8.1	940		62	33	80	4.2	212	135	75	1.0	<	0.1	287
11N/34W-19L03 S	820127	7.3	950	558	76	28	72	5.0	204	122	105	1.0		0.1	305
11N/34W-19L03 S	850703	7.4	910	638	64	29	82	3.6	197	125	94	0.1	<	0.1	295
11N/34W-19L03 S	900122	7.3	960	566	84	26	74	3.5	233	110	91	1.0	<	0.1	318
11N/34W-19L03 S	930117	7.2	910	506	77	26	70	2.9	192	134	98	2.4		0.1	298
11N/34W-19L03 S	931018	7.5	920	522	62	36	81	3.0	202	121	96	2.7		0.4	301
11N/34W-19L02 S	660619	7.4	754	462	45	26	70		182	82	83			0.1	217
11N/34W-19L02 S	750610	7.3	960	543	74	23	76	4.8	211	105	86	0.1		0.4	278
11N/34W-19L02 S	781016	7.5	950		65	32	85	4.1	228	122	88	1.0	<	0.1	292
11N/34W-19F01 S	620821	7.5	1005	720	97	43	63	3.0	174	278	62	6.0	0.10	0.5	419
11N/34W-19E01 S	850703	7.5	1100	826	106	42	67	2.7	162	318	49	43.4		0.4	430
11N/34W-19E01 S	900122	7.5	1120	661	116	36	55	2.9	190	253	45	45.2		0.8	438
11N/34W-19E01 S	930118	7.7	650	357	54	21	45	1.8	124	107	52	14.4		0.2	220
11N/34W-19E01 S	931018	7.7	850	526	75	34	57	2.2	140	203	46	26.6		0.5	324
11N/34W-18P02 S	710323	7.5	778	444	53	24	73	5.0	195	88	75	0.0	0.04	0.1	232
11N/34W-18P02 S	710920	8.0	879	547	59	31	78	2.7	211	115	83	1.0	0.05	0.2	277
11N/34W-18P01 S	711026	8.1	869	535	62	34	79	3.3	229	120	87	0.0	0.03	0.1	294
11N/34W-18H03 S	620821	7.4	937	590	70	35	90	4.0	264	125	89	0.5	0.08	0.3	319
11N/34W-18D01 S	620821	7.0	221	160	10	3	29	1.0	34	3	42	6.0	0.01	0.1	38
11N/34W-17N03 S	640717	7.1	220	168	13	2	32	1.0	42	7	35	15.0	0.00	0.1	41
11N/34W-17B05 S	920220	7.5	1500	910	87	66	110	9.0	400	200	140	3.5	<	0.1	510
11N/34W-17B01 S	691010	7.2	1276	831	108	63	97	2.0	366	171	120	34.8	0.04	0.7	529

nd = nondetect

AM 01712

F26

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	Fl mg/L	Total Hardness mg/L
11N/34W-17A02 S	850110			850			90			180	130				
11N/34W-09P01 S	751007	8.1	1309	731	90	68	91	1.6	346	155	128	8.7	0.62	0.7	504
11N/34W-09P01 S	771025	8.3	1246	747	68	59	106	4.0	273	202	115	1.4	0.07	0.5	412
11N/34W-08R02 S	691010	7.1	1461	898	128	74	104	2.0	494	126	154	11.2	0.09	0.5	624
11N/34W-08R01 S	751007	8.2	2052	1210	148	86	170	2.3	565	137	258	54.0	0.80	0.4	726
11N/34W-08G01 S	940811	7.7	1300	860	78	51	150	2.0	320	240	160	2.4	0.10	1.7	410
11N/34W-06G01 S	751007	8.1	1353	778	101	61	94	4.3	276	217	149	0.0	0.56	0.5	505
11N/34W-06F01 S	620711	8.0	1400	878	95	57	118	5.0	325	178	152	0.0	0.12	0.2	472
11N/34W-06F01 S	640717	8.0	1290	856	84	67	106	4.0	281	228	151	0.0	0.12	0.2	485
11N/34W-05x S	950828	7.5	1120	750	86	63	63	8.4	311	221	64	0.4		0.5	
11N/34W-05N01 S	691010	7.2	1380	912	83	69	138	9.0	365	285	99	0.5	0.04	0.3	491
11N/34W-05H01 S	640717	8.2	1120	748	109	57	66	1.0	347	159	81	15.0	0.05	0.4	507
11N/34W-04Q01 S	640717	7.9	1110	846	72	45	137	3.0	338	219	54	21.0	0.10	0.2	365
11N/34W-04J01 S	770121	7.3	917		56	62	64		280	199	41			0.6	395
11N/34W-04J01 S	770728	7.9		670	66	50	60	1.4	264	159	47	3.5		0.7	370
11N/34W-04J01 S	780707	8.4	800		74	46	50	2.3	230	182	46	18.0		0.7	374
10N/36W-02G02 S	640206	8.0	1800	1365	206	74	94	5.0	310	296	291	3.2	0.22	0.5	819
10N/36W-02G02 S	650408	7.4	1495	930	123	46	125	5.0	290	180	201	16.0	0.34	0.7	496
10N/36W-02G01 S	611009	7.0	1350		192	36	86	3.0	212	498	67	0.0	0.30	0.4	628
10N/36W-02G01 S	611107	7.3	1398	1052	139	62	87	3.0	204	462	64	6.3	0.19	0.8	602
10N/36W-02G01 S	620424	7.3	1440	1041	148	58	84	4.0	193	464	67	11.0	0.07	0.7	608
10N/36W-02G01 S	630501	7.7	1065	766	70	53	87	4.0	90	377	67	0.6	0.14	0.5	393
10N/36W-02G01 S	631017	8.1	1270	1032	135	59	90	3.0	195	467	69	5.1	0.30	0.2	580
10N/36W-02G01 S	640206	7.4	1347	1070	142	60	94	3.0	212	465	69	12.4	0.22	0.6	601
10N/36W-02G01 S	640326	8.0	750	570	32	26	96	3.0	60	236	69	0.0	0.11	0.1	187
10N/36W-02G01 S	650408	7.3	1389	1030	134	63	89	4.0	202	471	68	5.0	0.24	0.8	594
10N/36W-02G01 S	700417	7.8	617	345	18	11	86	5.0	78	97	70	4.0	0.08	0.2	90
10N/36W-02G01 S	700917	7.8	566	260	7	8	91	2.0	69	83	67	5.0	0.10	0.2	50
10N/36W-02G01 S	710401	7.6	582	322	8	14	84	4.3	67	91	70	6.0	0.08	0.2	81
10N/36W-02G01 S	710922	8.1	652	334	8	18	89	5.1	74	118	68	6.0	0.09	0.0	92
10N/36W-02G01 S	720309	7.8	626	317	3	22	94	3.6	75	122	70	6.0	0.10	0.1	99
10N/36W-02G01 S	760922		670		5	20	89	5.3	93	100	74	1.0	0.15	0.1	96
10N/36W-01H01 S	610328	8.1	1600		173	72	96	3.0	200	580	111	9.1	0.25	0.4	728
10N/36W-01H01 S	611009	7.7	1570		192	71	90	3.0	202	583	111	0.0	0.26	0.4	772
10N/36W-01H01 S	611107	7.8	1642	1270	180	81	94	4.0	208	572	112	14.0	0.18	0.8	783
10N/36W-01H01 S	620614	8.0	1550	1252	171	72	92	6.0	153	571	117	0.0	0.25	0.6	723
10N/36W-01H01 S	620920	7.8	1550	1332	176	74	83	3.0	185	536	116	8.0	0.20	0.4	744
10N/36W-01H01 S	630719	7.5	1704	1340	187	77	100	4.0	217	596	114	10.0	0.24	0.7	784
10N/36W-01H01 S	631015	7.4	1550	1300	239	38	99	4.0	203	597	112	8.2	0.26	0.2	754

F27

AM 01713

nd = nondetect

APPENDIX F (continued)
ARROYO GRANDE - NIPOMO MESA AREA
SELECTED WATER QUALITY DATA

State Well No.	Date yr/mo/da	pH lab	EC lab µmhos/cm	TDS @180° mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Total Alk (CaCO3) mg/L	SO4 mg/L	Cl mg/L	NO3 mg/L	B mg/L	Fl mg/L	Total Hardness mg/L
10N/36W-01H01 S	640506	8.0	1600	1400	97	134	105	3.0	208	604	116	10.0	0.22	0.2	792
10N/36W-01H01 S	650408	7.3	1760	1340	183	84	98	6.0	210	619		12.0	0.10	0.8	803
10N/35W-06A03 S	640206	8.2	1130	878	127	49	70	3.0	208	379	46	2.4	0.16	0.6	519
10N/35W-06A01 S	640206	8.1	1800	1455	78	148	154	4.0	407	591	76	9.8	0.40	0.8	804
10N/35W-05J01 S	271018			1000	126	50	96		176	443	45				520
10N/35W-05J01 S	531217	7.7	1340		144	62	77	4.0	174		68				615
10N/35W-05J01 S	570405	7.1	1360		146	69	81	3.0	199		64				649
10N/35W-05J01 S	580507	7.8	1381	1075	140	68	80	3.0	198	467	71	25.2	0.10	0.6	630
10N/35W-05J01 S	580917	8.0	1388	1048	144	70	71	4.0	185	473	71	22.0	0.09	0.4	648
10N/35W-05J01 S	590526	7.8	1589	1065	132	65	78	3.0	164	483	67	27.0	0.46	0.3	597
10N/35W-05J01 S	601117	7.9	1378		140	68	76	3.0	194	491	67	17.0	0.31	1.0	630
10N/35W-05J01 S	620614	8.1	1480	1016	123	75	78	6.0	193	475	71	23.0	0.09	0.4	616
10N/35W-05J01 S	620920	8.1	1330	1124	132	73	70	3.0	190	475	67	22.0	0.20	0.6	630
10N/35W-05J01 S	630719	7.2	1414	1100	145	70	82	4.0	208	481	70	24.0	0.20	0.7	651
10N/35W-05J01 S	750925		4000		160	64	77	3.8	216	480	65	38.5	0.18	0.4	660
10N/35W-04C01 S	520425		1710		191	85	96	4.5	256	660	60				826
10N/35W-04C01 S	570405		1740		209	94	99	3.7	263		60				910
10N/35W-04C01 S	571121	7.5	1710	1350	175	88	84	4.0	165	709	66	7.4	0.17	0.0	799
10N/35W-04C01 S	580507	7.2	1824	1167	216	86	101	4.0	270	695	83	10.7	0.58	0.4	893
10N/35W-04C01 S	581119	7.8	1694	1472	206	91	96	5.0	254	709	68	12.0	0.16	0.8	889
10N/35W-04C01 S	590421	7.7	1684	1291	190	83	98	4.0	193	706	76	10.0	0.23	0.4	816
10N/35W-04C01 S	590911	7.3	1831	1385	212	89	91	4.0	263	687	74	11.0	0.20	0.7	896
10N/35W-04C01 S	620614	8.0	1770	1480	155	119	84	4.0	251	695	70	12.0	0.23	0.4	877
10N/35W-04C01 S	650709	7.9	1887	1581	221	97	99	4.0	286	721	74	19.0	0.21	0.6	951
10N/35W-04C01 S	651108	7.9	1776	1400	197	89	98	4.0	227	708	69	20.0	0.28	0.7	858
10N/35W-04C01 S	661019	8.3	1920	1460	245	54	99	4.0	244	691	72	16.0	0.20		834
10N/35W-04C01 S	670523	7.8	1746	1424	151	92	106	4.0	188	635	97	8.5	0.23	0.5	756
10N/35W-04C01 S	680503	8.3	1960	1600	224	95	109	4.0	283	752	73	17.0	0.20	0.4	950
10N/35W-04C01 S	680920	7.6	1886	1542	223	94	100	4.0	278	741	73	16.3	0.20	0.8	944
10N/35W-04C01 S	710913	7.8	1752	1420	191	90	93	2.7	238	674	87	19.5	0.20	0.6	845
10N/35W-04C01 S	720309	8.0	1670	1377	192	87	95	3.9	258	641	72	21.8	0.20	0.5	837
10N/35W-04C01 S	750515	8.1	1689	1350	146	81	108	3.9	128	662	91	20.0	0.22	0.6	735
10N/35W-04C01 S	771020		1780	1370	210	83	93	3.9		640	71		0.20		860

F28

AM 01714

nd = nondetect

**APPENDIX G
CUMULATIVE WATER SUPPLY SURPLUS OR DEFICIENCY**

G1

AM 01715

WATER BUDGET
PISMO/OCEANO HSAs
(Thousands of Acre-Feet)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	2000	2010	2020	BASE PERIOD	
INFLOW																										
DEEP PERCOLATION OF																										
PRECIPITATION	8.4	1.2	0.0	47.1	8.5	6.8	0.9	31.3	54.4	1.2	1.3	32.0	1.6	1.5	1.4	0.0	8.0	10.1	32.7	2.2	45.3	10.6	9.9	9.2	10.9	
URBAN RETURN	1.0	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.5	1.6	1.7	1.7	1.7	1.6	1.6	1.6	1.6	1.6	1.6	1.5	1.5	2.0	2.1	2.3	1.6	
AGRICULTURE RETURN	3.0	2.9	2.8	2.7	2.6	2.5	2.5	2.4	2.3	2.2	2.1	2.1	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.4	2.4	2.3	2.0	2.0	2.2	
OTHER RETURN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
CREEK INFILTRATION	3.5	2.9	0.0	12.7	4.3	7.2	4.0	6.8	14.6	2.5	2.7	6.1	2.2	3.1	2.6	0.0	4.4	3.5	7.8	2.1	12.2	4.6	4.6	4.6	4.6	
SUBSURFACE INFLOW FROM NIPOMO MESA HSA	1.3	0.4	0.4	4.3	1.3	4.3	1.3	4.3	4.3	0.4	0.4	4.3	0.4	0.4	0.4	0.4	1.3	1.3	1.3	0.4	4.3	1.3	1.3	1.3	1.3	
TOTAL INFLOW	17.2	8.4	4.3	68.0	18.0	22.1	10.0	46.2	77.1	7.9	8.2	46.3	8.0	8.8	8.3	4.3	17.6	18.8	45.8	8.6	65.7	20.7	19.9	19.4	20.6	
OUTFLOW																										
URBAN GROUNDWATER																										
EXTRACTIONS	1.1	1.3	1.5	1.6	1.8	2.0	2.2	2.4	2.5	2.7	2.9	2.9	2.9	2.9	2.8	2.8	2.8	2.7	2.7	2.7	2.6	3.3	3.6	4.7	2.8	
AGRICULTURAL GROUNDWATER																										
EXTRACTIONS	9.0	8.7	8.4	8.1	7.8	9.1	7.3	7.0	6.7	6.4	6.1	6.0	5.9	5.9	5.8	5.7	6.0	6.3	6.7	7.0	7.3	6.9	6.4	6.2	6.2	
OTHER GROUNDWATER																										
EXTRACTIONS	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
SUBSURFACE OUTFLOW TO OCEAN	3.2	3.2	1.0	9.7	3.2	9.7	3.2	9.7	9.7	0.9	2.8	9.2	0.9	2.8	2.8	0.9	3.2	9.7	9.7	3.2	9.7	4.7	4.7	4.7	4.7	
TOTAL OUTFLOW	13.4	13.2	10.9	19.5	12.9	20.9	12.7	19.1	19.0	10.1	11.9	18.2	9.8	11.6	11.5	9.5	12.1	18.9	19.1	12.9	19.7	15.0	14.8	15.7	13.8	
INFLOW MINUS OUTFLOW	3.9	-4.8	-6.6	48.4	5.1	1.3	-2.7	27.1	58.1	-2.2	-3.7	28.1	-1.8	-2.8	-3.3	-5.2	5.5	-0.1	26.6	-4.3	46.0	5.7	5.1	3.7	6.8	
CUMULATIVE SURPLUS/DEFICIENCY		-1.0	-7.7	40.7	45.8	47.1	44.3	71.5	129.6	127.4	123.7	151.8	150.0	147.2	143.9	138.7	144.2	144.0	170.7	166.4	212.4					

G2

AM 01716

WATER BUDGET
NIPOMO MESA HSA
(Thousands of Acre-Feet)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	2000	2010	2020	BASE PERIOD	
INFLOW																										
DEEP PERCOLATION OF																										
PRECIPITATION	1.0	1.3	0.0	19.7	6.7	7.3	1.6	8.2	22.8	1.2	1.3	8.2	1.2	1.5	1.3	0.0	1.1	7.1	13.4	1.4	19.0	4.7	4.7	4.7	4.7	4.7
URBAN RETURN	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	1.0	1.3	0.6	0.6
AGRICULTURE RETURN	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
OTHER RETURN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RECHARGE OF RECLAIMED WATER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.7	1.1	1.1	0.2
SUBSURFACE INFLOW FROM																										
GUADALUPE HA	0.5	0.2	0.2	1.6	0.5	1.6	0.5	1.6	1.6	0.2	0.2	1.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.2	4.4	1.5	1.5	1.5	1.5	1.5
TOTAL INFLOW	2.1	2.1	0.8	22.0	7.9	9.7	2.9	10.7	25.2	2.3	2.4	10.8	2.7	2.9	2.8	1.8	2.5	8.6	14.8	3.5	24.6	8.1	8.6	8.9	7.3	
OUTFLOW																										
URBAN GROUNDWATER																										
EXTRACTIONS	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	3.0	3.2	3.4	3.5	3.7	3.9	3.7	3.6	3.4	3.3	3.1	4.5	5.2	6.6	3.4	3.4
AGRICULTURAL GROUNDWATER																										
EXTRACTIONS	1.5	1.5	1.6	1.6	1.7	1.7	1.7	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9
OTHER GROUNDWATER																										
EXTRACTIONS	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SUBSURFACE OUTFLOW TO																										
OCEANO HSA	1.3	0.4	0.4	4.3	1.3	4.3	1.3	4.3	4.3	0.4	0.4	4.3	0.4	0.4	0.4	0.4	1.3	4.3	4.3	0.4	4.3	1.3	1.3	1.3	1.3	1.3
SUBSURFACE OUTFLOW TO OCEAN	0.4	0.1	0.1	1.3	0.4	1.3	0.4	1.3	1.3	0.1	0.1	1.3	0.1	0.1	0.1	0.1	0.4	0.4	0.4	0.1	0.8	0.3	0.3	0.3	0.3	0.3
TOTAL OUTFLOW	5.7	4.7	4.9	10.1	6.4	10.5	6.8	10.9	11.1	6.2	6.4	11.6	6.7	6.9	7.1	7.2	8.2	11.0	10.9	6.6	11.0	8.9	9.6	11.0	7.9	
INFLOW MINUS OUTFLOW	-3.6	-2.6	-4.0	11.9	1.5	-0.8	-3.9	-0.2	14.2	-3.9	-4.0	-0.9	-4.0	-4.0	-4.3	-5.5	-5.7	-2.5	4.0	-3.1	13.6	-0.8	-1.0	-2.1	-0.6	
CUMULATIVE SURPLUS/																										
DEFICIENCY		-6.1	-10.2	1.7	3.2	2.4	-1.5	-1.8	12.4	8.5	4.5	3.6	-0.4	-4.4	-8.7	-14.2	-19.8	-22.3	-18.3	-21.4	-7.8					

53

AM 01717

WATER BUDGET
GUADALUPE HA
(Thousands of Acre-Feet)

	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	2000	2010	2020	BASE PERIOD	
INFLOW																										
DEEP PERCOLATION OF																										
PRECIPITATION	8.3	5.0	0.0	40.2	8.7	9.6	5.7	21.5	44.0	3.9	4.3	18.5	1.2	1.6	1.2	0.0	1.1	9.7	27.4	1.5	37.3	8.3	6.9	5.7	9.0	
URBAN RETURN	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	
AGRICULTURE RETURN	4.4	4.3	4.2	4.1	4.0	3.9	3.8	3.7	3.6	3.5	3.4	3.3	3.2	3.2	3.1	3.0	3.0	2.9	2.8	2.8	2.7	2.8	2.2	2.7	3.1	
OTHER RETURN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
CREEK INFILTRATION	3.4	0.0	0.0	35.2	37.2	43.7	4.1	10.3	43.0	34.8	0.0	10.0	0.0	3.4	0.0	0.0	10.0	10.0	36.0	10.0	40.0	12.9	12.9	12.9	12.9	
SUBSURFACE INFLOW FROM																										
OUTSIDE THE STUDY AREA	1.3	0.4	0.4	6.1	1.9	6.1	1.9	6.1	6.1	0.6	0.8	8.1	0.6	0.6	0.6	0.6	1.9	4.1	4.1	0.6	4.1	2.2	2.2	2.2	2.2	
TOTAL INFLOW	17.5	9.7	4.7	85.6	51.9	63.3	15.6	41.7	96.8	42.9	8.6	40.0	5.1	8.9	5.0	3.7	16.1	26.8	70.4	15.0	84.2	26.2	24.3	23.6	27.2	
OUTFLOW																										
URBAN GROUNDWATER																										
EXTRACTIONS	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.7	0.7	0.9	0.5	
AGRICULTURAL GROUNDWATER																										
EXTRACTIONS	20.4	20.0	19.5	19.1	18.6	18.2	17.7	17.3	16.8	16.4	15.9	15.7	15.5	15.3	15.1	14.9	14.7	14.5	14.3	14.1	13.9	14.2	13.1	13.7	15.0	
OTHER GROUNDWATER																										
EXTRACTIONS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	
SUBSURFACE OUTFLOW TO																										
NIPOMO MESA HSA	0.5	0.2	0.2	1.6	0.5	1.6	0.5	1.6	1.6	0.2	0.2	1.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.2	4.4	1.5	1.5	1.5	1.5	
SUBSURFACE OUTFLOW TO																										
OCEAN	5.7	2.1	2.1	17.6	17.6	17.6	6.0	17.6	17.6	17.6	6.3	18.5	6.0	2.1	2.1	2.1	6.0	17.6	17.6	6.0	16.7	9.9	9.9	9.9	9.9	
TOTAL OUTFLOW	26.9	22.6	22.1	38.6	37.1	37.8	24.7	36.9	36.5	34.6	22.9	36.4	22.6	18.5	18.3	18.2	21.8	33.2	33.0	21.8	35.6	26.3	25.2	26.0	27.0	
INFLOW MINUS OUTFLOW	-9.4	-12.8	-17.5	47.0	14.8	25.5	-9.1	4.8	60.3	8.3	-14.3	3.6	-17.4	-9.6	-13.3	-14.4	-5.8	-6.5	37.4	-6.9	48.6	-0.1	-0.9	-2.4	0.2	
CUMULATIVE SURPLUS/																										
DEFICIENCY		-22.2	-39.7	7.3	22.1	47.7	38.6	43.4	103.6	111.9	97.6	101.2	83.8	74.2	60.8	46.4	40.6	34.2	71.6	64.7	113.3					

G4

AM 01718