

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

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## **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 historical 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, 21.66 inches, 16.26 inches, and 11.52 inches, respectively, corresponds closely to the long-time period through 1995 mean precipitation of 22.00 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.

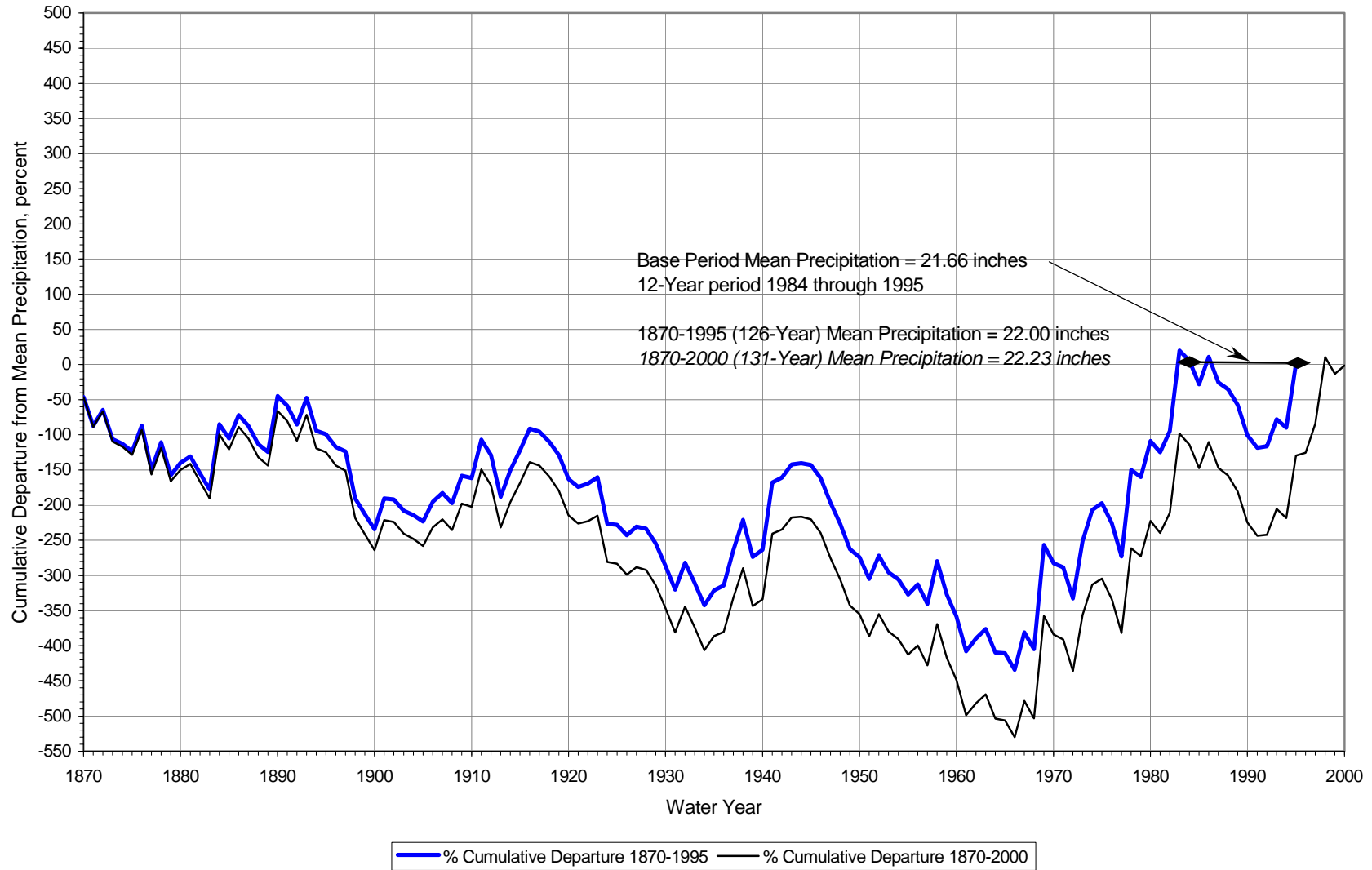
Figures B4 and B5 show annual discharge and long-term mean discharge for the period of record for the stations at Arroyo Grande Creek at Arroyo Grande and at Sisquoc River near Garey. The 12-year base period mean discharge of Arroyo Grande Creek at Arroyo Grande (1984-1995), which amounts to 5,851 AF, is about half of the long-term period mean discharge (1940-1995) of 12,727 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 42,955 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 46 percent and 80 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



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FIGURE B2 - CUMULATIVE DEPARTURE FROM MEAN PRECIPITATION  
NIPOMO 2NW

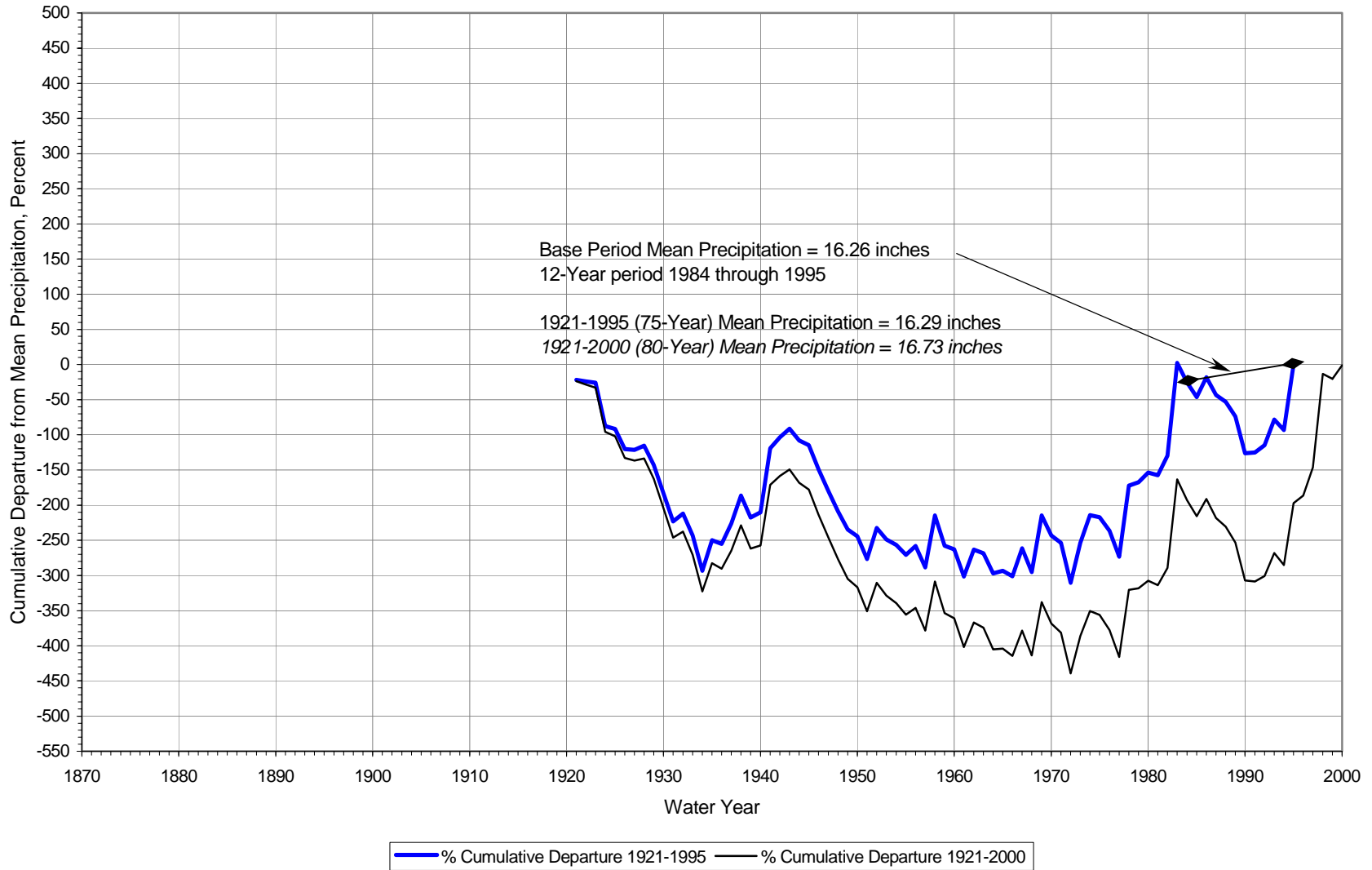
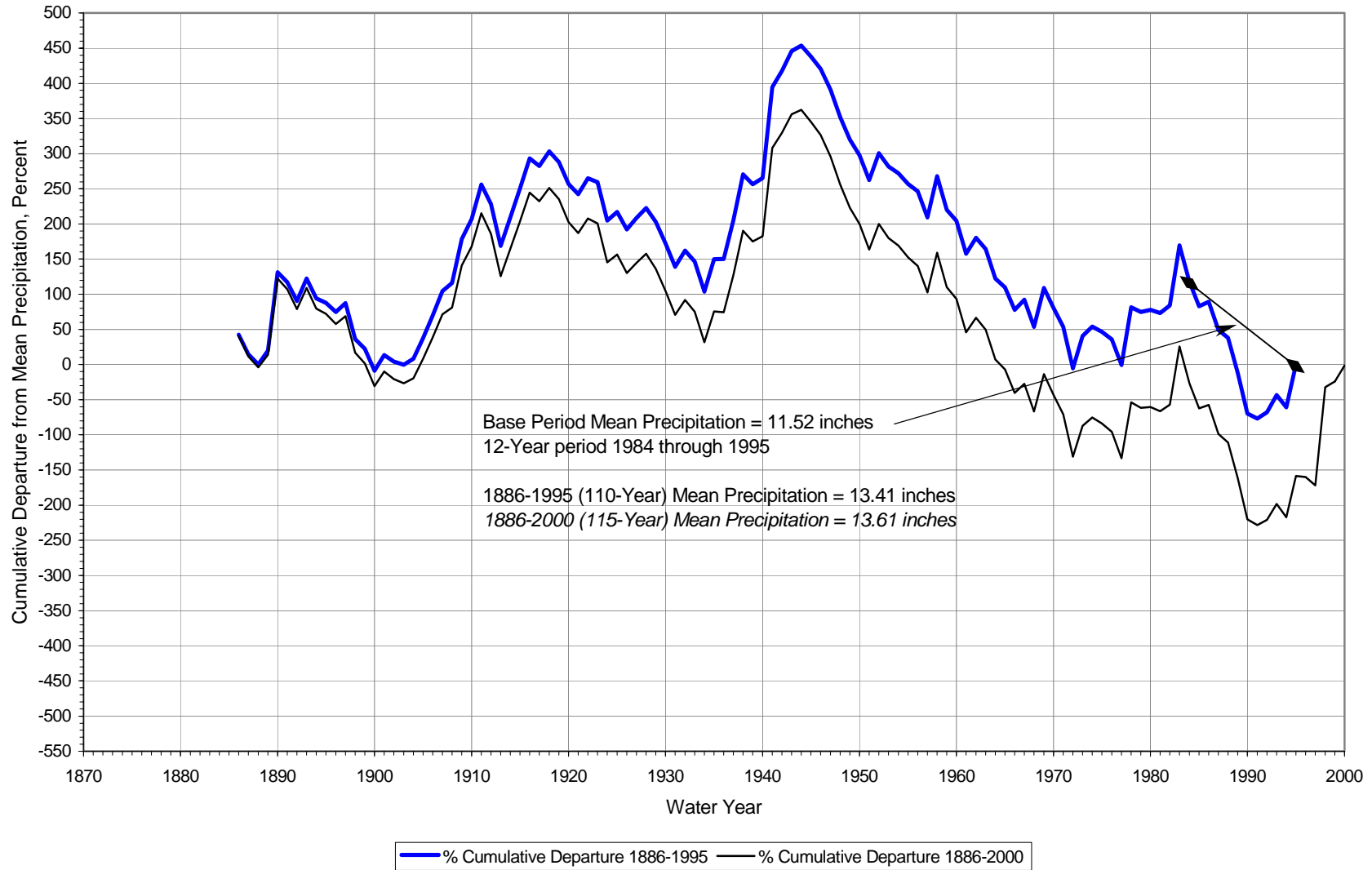


FIGURE B3 - CUMULATIVE DEPARTURE FROM MEAN PRECIPITATION  
CITY OF SANTA MARIA



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FIGURE B4 - ANNUAL DISCHARGE, ARROYO GRANDE CREEK AT ARROYO GRANDE AND PRECIPITATION AT HUASNA VALLEY AND LOPEZ DAM STATIONS

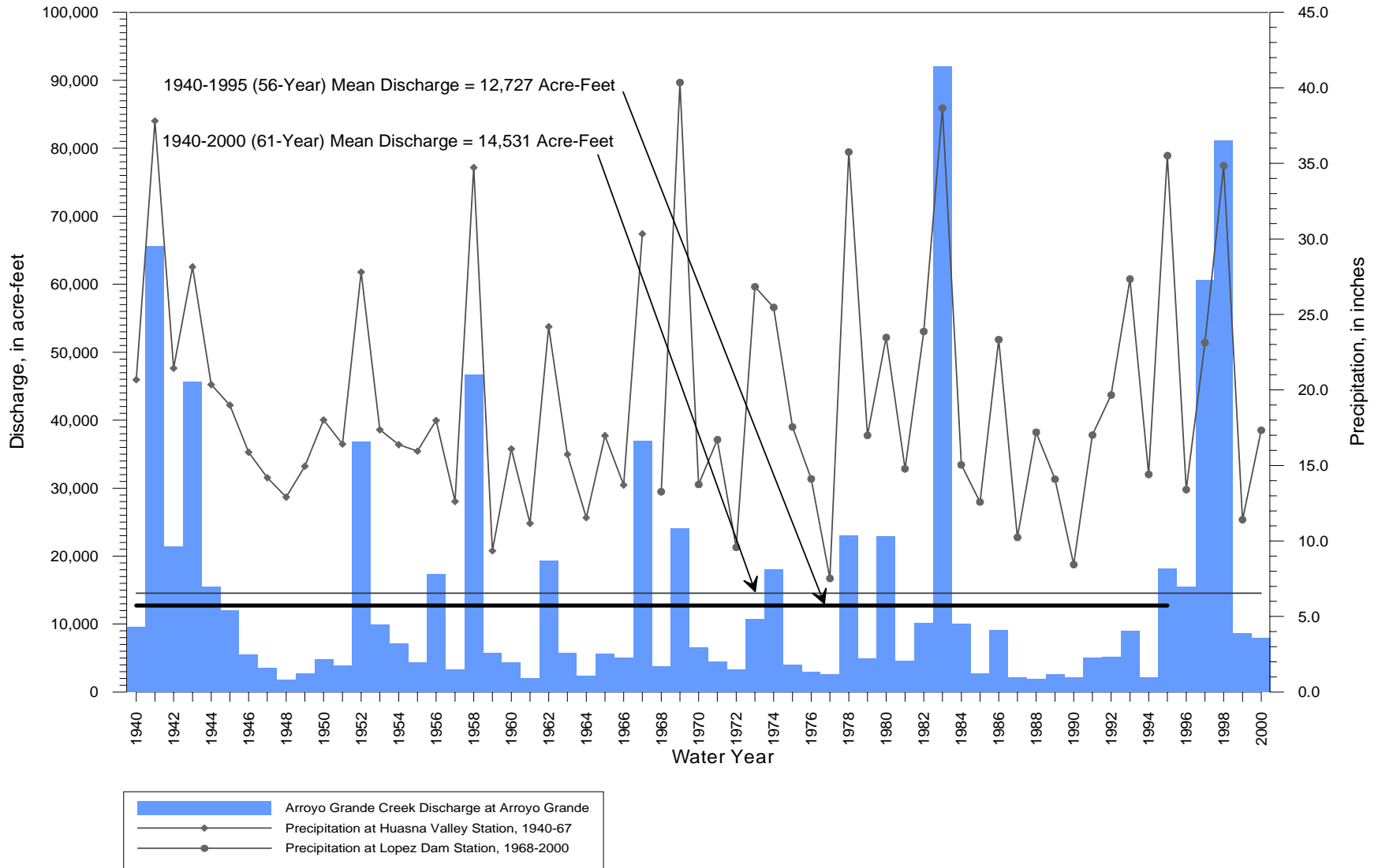
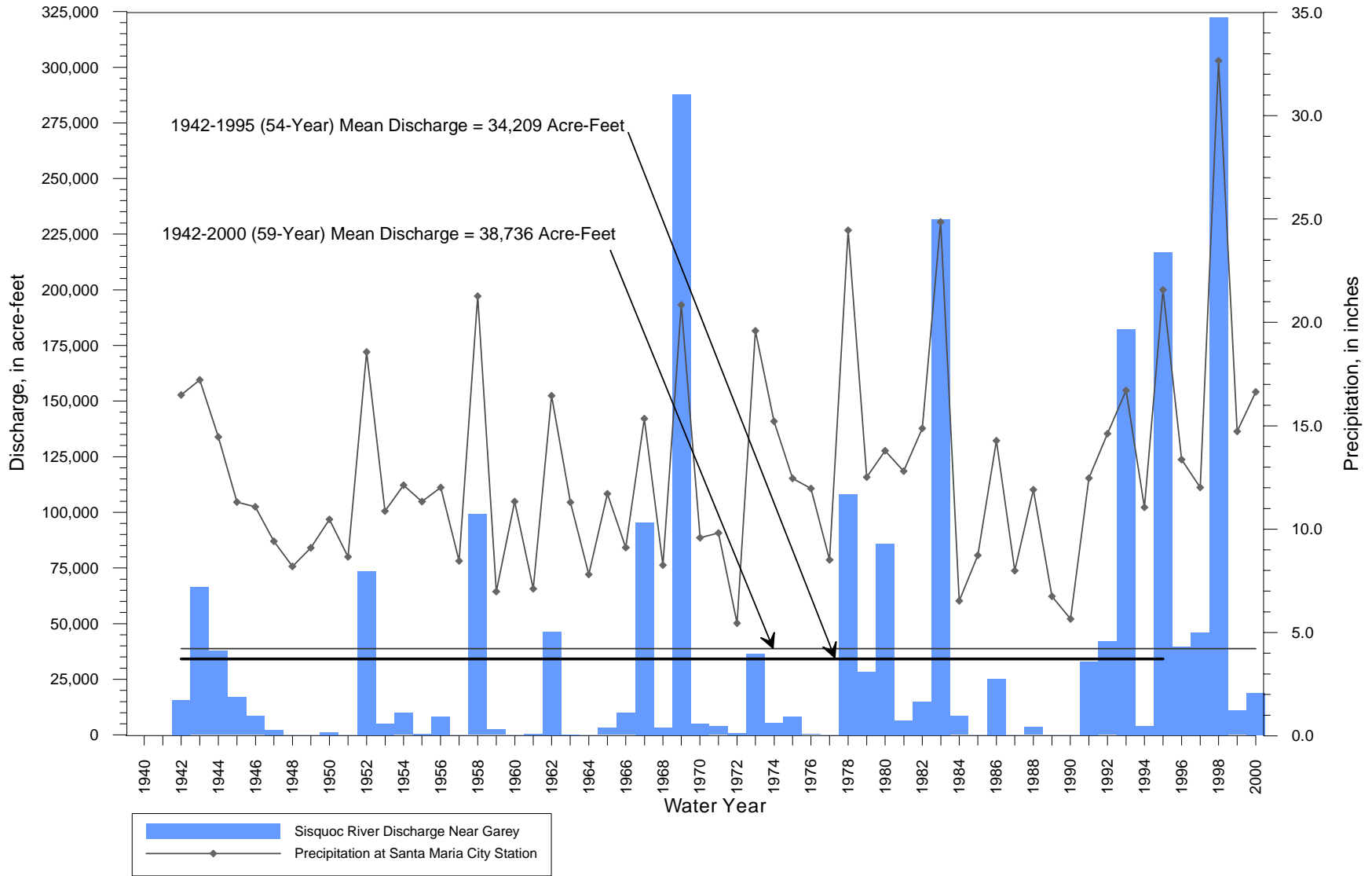




FIGURE B5 - ANNUAL DISCHARGE, SISQUOC RIVER NEAR GAREY AND PRECIPITATION AT SANTA MARIA CITY STATION



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

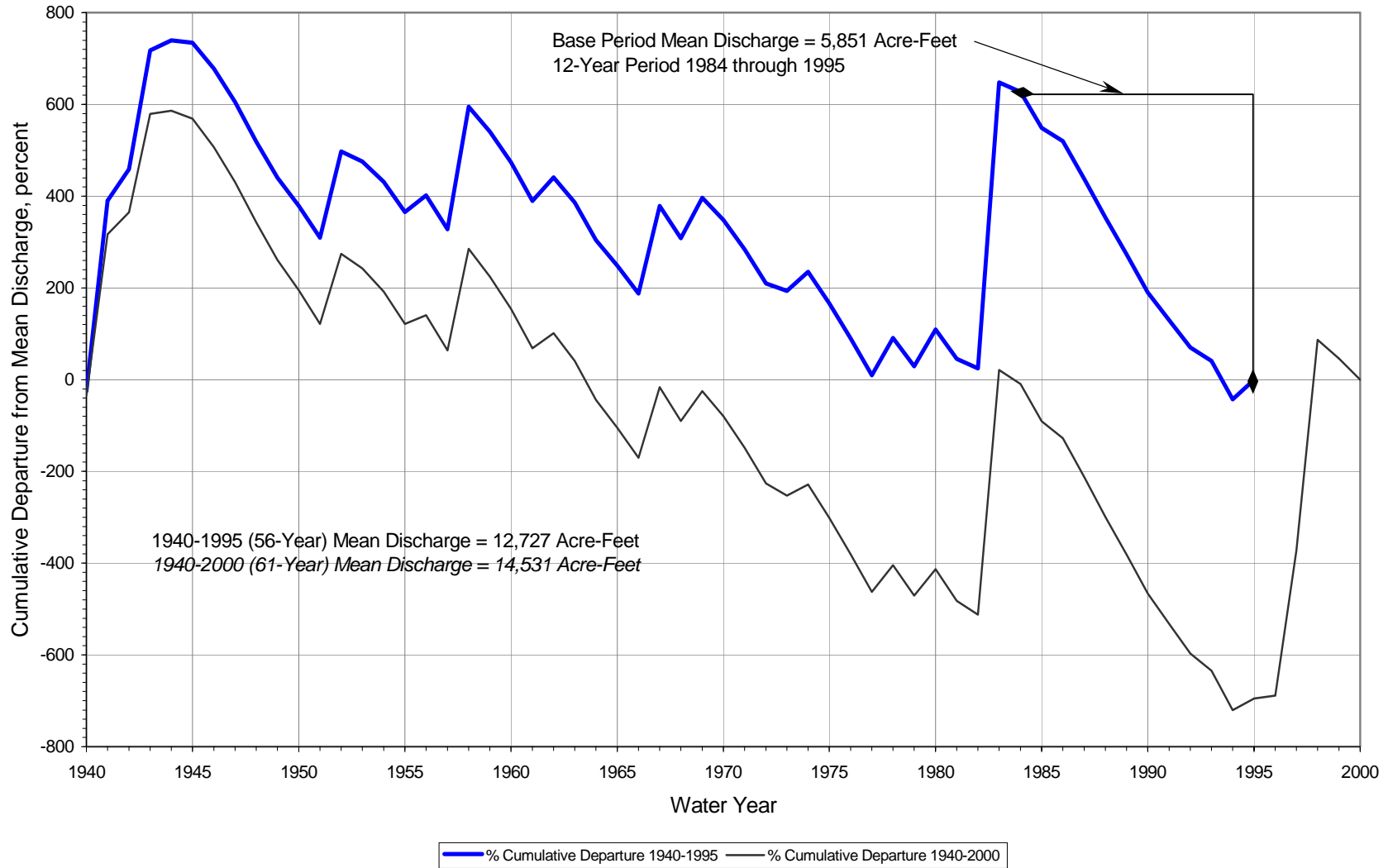
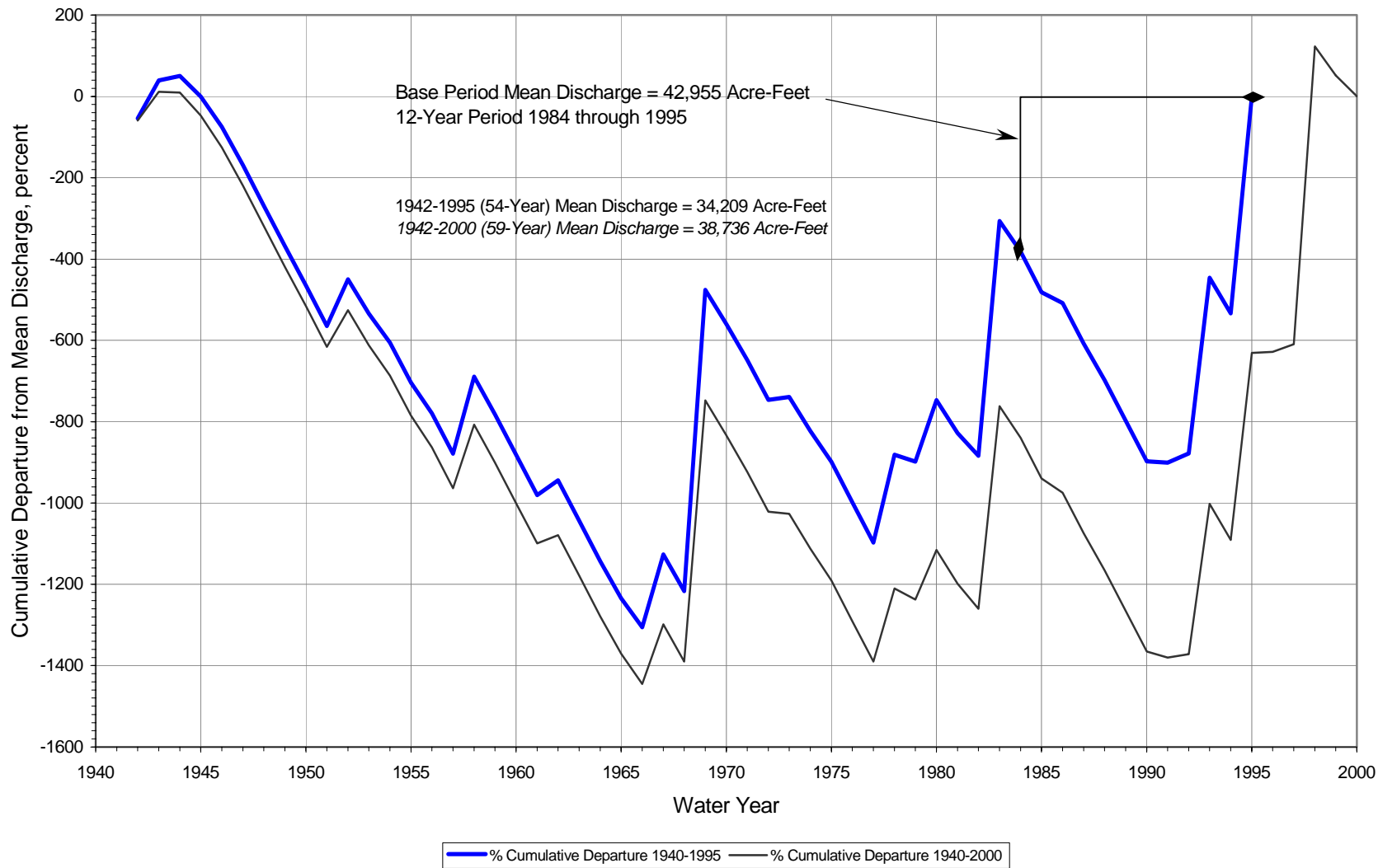


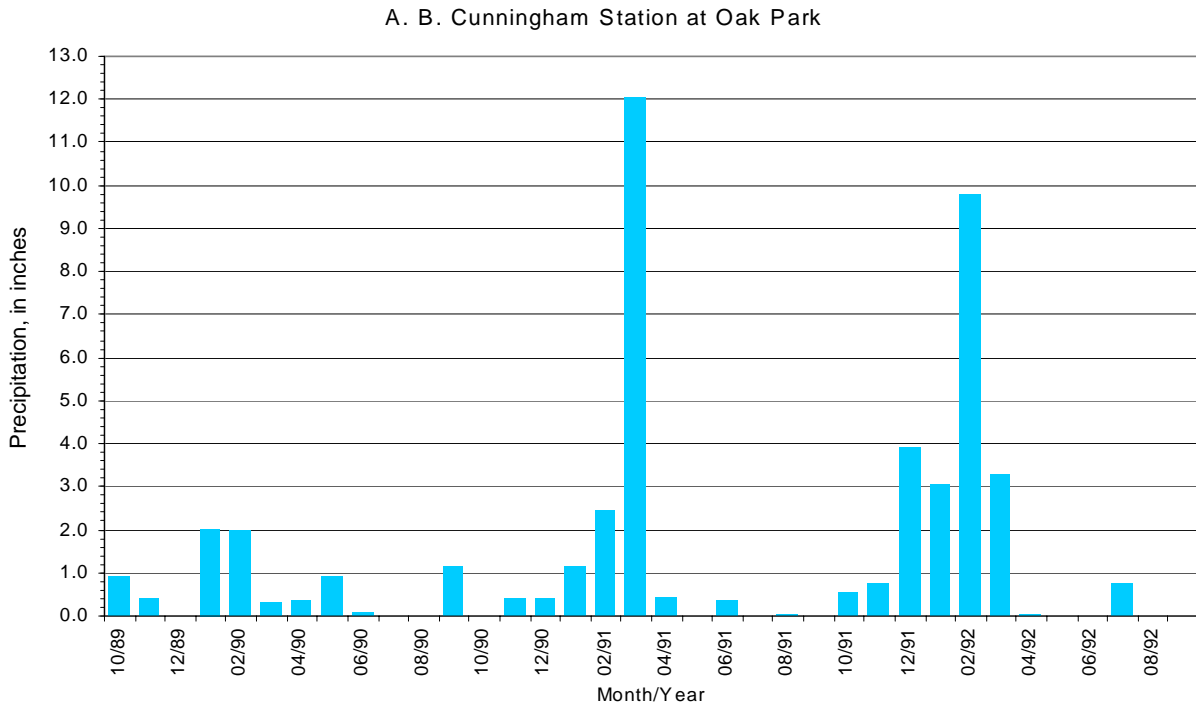
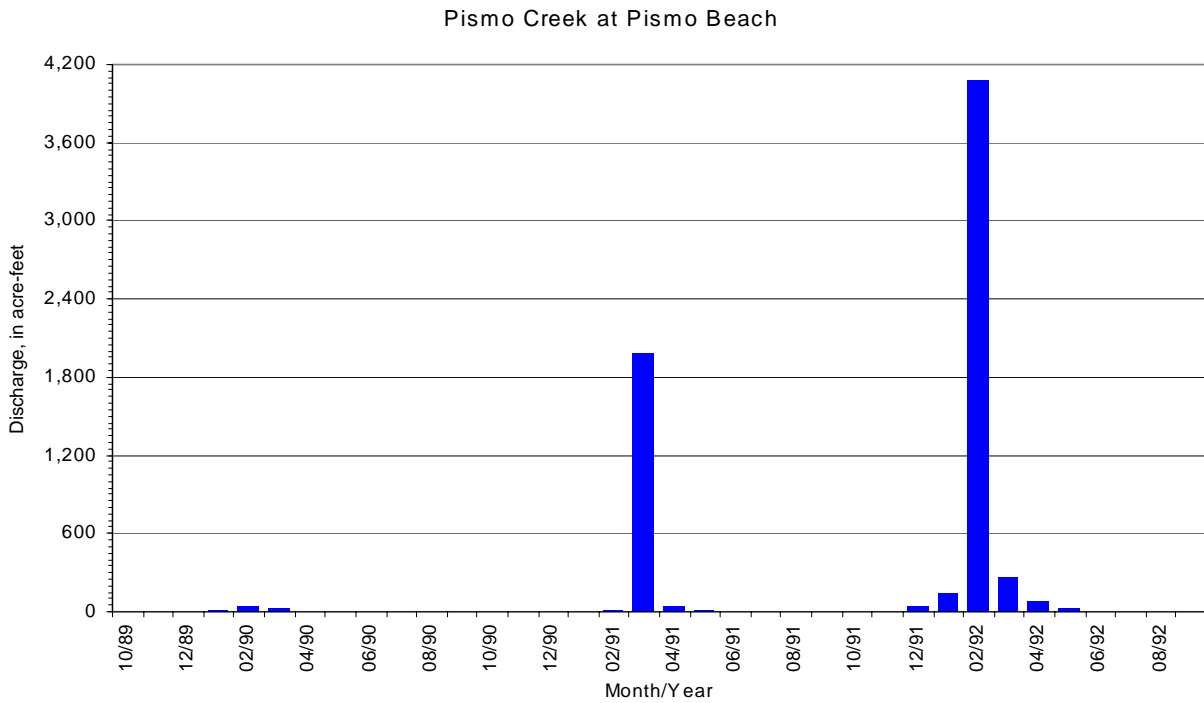
FIGURE B7 - CUMULATIVE DEPARTURE FROM MEAN DISCHARGE  
SISQUOC RIVER NEAR GAREY



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Appendix B

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



**Precipitation Data, 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	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
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

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 LATITUDE: 35-18-20  
 RECORD BEGAN: 1870

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
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
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

**Precipitation Data, 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	Total
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	0.07	0.00	18.06
1992	0.44	0.58	4.49	3.43	9.84	3.15	0.10	0.00	0.04	0.44	0.00	0.00	22.51
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	16.03	2.25	16.48	1.12	0.76	0.76	0.00	0.00	0.00	41.95

*For 1870-1995 Water Years*

Sum	110.96	247.78	490.08	613.91	539.62	460.84	198.24	57.13	12.70	1.97	5.05	33.91	2772.19
N	126	126	126	126	126	126	126	126	126	126	126	126	126
Mean	0.88	1.97	3.89	4.87	4.28	3.66	1.57	0.45	0.10	0.02	0.04	0.27	22.00
Mean for 1984-95													
Water Years*	1.00	2.00	3.40	3.98	4.49	4.99	0.79	0.31	0.16	0.04	0.01	0.49	21.66
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	4.32	3.59	3.08	1.61	0.80	0.32	0.06	0.18	0.63	8.72
1996	0.02	0.40	3.55	4.68	9.73	1.78	1.90	1.05	0.00	0.00	0.00	0.00	23.11
1997	2.23	4.43	10.88	13.31	0.46	0.00	0.05	0.00	0.00	0.05	0.01	0.00	31.42
1998	0.00	5.84	5.32	6.86	15.07	3.79	2.56	3.41	0.05	0.00	0.00	0.35	43.25
1999	0.37	1.88	1.22	3.82	2.37	5.19	2.07	0.00	0.00	0.00	0.00	0.13	17.05
2000	0.00	1.69	0.08	4.33	13.17	1.92	2.97	0.21	0.34	0.00	0.00	0.02	24.73

*For 1870-2000 Water Years*

Sum	113.58	262.02	511.13	646.91	580.42	473.52	207.79	61.80	13.09	2.02	5.06	34.41	2911.75
N	131	131	131	131	131	131	131	131	131	131	131	131	131
Mean	0.87	2.00	3.90	4.94	4.43	3.61	1.59	0.47	0.10	0.02	0.04	0.26	22.23
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	1.18	2.21	3.22	4.30	3.77	3.05	1.59	0.83	0.31	0.06	0.18	0.62	8.80

\*Hydrologic base period for this study

**Precipitation Data, 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	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	0.61	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
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



**Precipitation Data, 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	Total
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	6.93	1.66	0.00	0.00	0.00	0.76	0.00	0.00	15.58
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
<i>For 1910-95 Water Years</i>													
Sum	49.52	125.92	206.47	268.20	248.93	225.83	103.47	27.18	7.77	2.11	3.72	19.73	1288.85
N	86	86	86	86	86	86	86	86	86	86	86	86	86
Mean	0.58	1.46	2.40	3.12	2.89	2.63	1.20	0.32	0.09	0.02	0.04	0.23	14.99
<i>Mean for 1984-95</i>													
Water Years*	0.61	1.35	2.31	3.13	2.64	3.44	0.64	0.18	0.10	0.06	0.00	0.24	14.71
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	2.52	2.19	1.23	0.54	0.33	0.11	0.24	0.63	5.59
1996	0.02	0.40	2.08	3.83	9.14	1.79	0.97	0.47	0.01	0.00	0.00	0.00	18.71
1997	1.90	3.39	5.93	6.43	0.11	0.01	0.00	0.00	0.00	0.03	0.01	0.73	18.54
1998	0.00	4.90	3.24	5.01	14.12	3.01	2.90	3.46	0.06	0.00	0.00	0.48	37.18
1999	0.25	2.18	1.10	2.93	1.23	5.26	2.19	0.00	0.00				
<i>For 1910-99 Water Years</i>													
Sum	51.69	136.79	218.82	286.40	273.53	235.90	109.53	31.11	7.84	2.14	3.73	20.94	1363.28
N	90	90	90	90	90	90	90	90	90	89	89	89	89
Mean	0.57	1.52	2.43	3.18	3.04	2.62	1.22	0.35	0.09	0.02	0.04	0.24	15.32
Max	2.86	5.38	7.39	11.75	14.12	9.88	4.81	3.46	2.53	0.76	1.90	4.65	37.18
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	0.67	1.44	1.80	2.60	2.83	2.18	1.23	0.62	0.32	0.11	0.23	0.62	5.99

\*Hydrologic base period for this study

**Precipitation Data, 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	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
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

**Precipitation Data, 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	Total
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	0.05	0.00	16.47
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
<i>For 1921-95 Water Years</i>													
Sum	50.92	125.69	206.30	235.71	233.47	215.65	100.67	25.24	5.92	1.94	3.65	16.60	1221.76
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
<i>Mean for 1984-95</i>													
Water Years*	0.83	1.57	2.57	2.85	3.01	3.90	0.70	0.29	0.10	0.07	0.01	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
1996	0.03	0.58	2.37	3.65	8.54	1.68	1.03	0.69	0.00	0.00	0.00	0.00	18.57
1997	2.28	4.89	8.08	7.65	0.11	0.00	0.00	0.00	0.00	0.06	0.00	0.31	23.38
1998	0.03	5.42	3.39	5.42	13.67	4.09	3.68	2.99	0.06	0.00	0.00	0.30	39.05
1999	0.30	2.44	1.04	2.95	1.65	4.85	2.26	0.00	0.02	0.00	0.02	0.00	15.53
2000	0.00	1.73	0.04	2.55	10.04	1.81	3.34	0.08	0.30	0.00	0.00	0.04	19.93
<i>For 1921-2000 Water Years</i>													
Sum	53.56	140.75	221.22	257.93	267.48	228.08	110.98	29.00	6.30	2.00	3.62	17.25	1338.17
N	80	80	80	80	80	80	80	80	80	80	80	80	80
Mean	0.67	1.76	2.77	3.22	3.34	2.85	1.39	0.36	0.08	0.03	0.05	0.22	16.73
Max	2.72	7.49	8.57	12.57	13.67	12.04	5.92	2.99	1.65	0.84	1.09	3.30	39.05
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	0.71	1.65	2.01	2.47	2.98	2.38	1.42	0.63	0.23	0.11	0.17	0.51	6.69

\*Hydrologic base period for this study

**Precipitation Data, 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	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
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

**Precipitation Data, 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	Total
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 Data, 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	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 Data, 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	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
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

**Precipitation Data, 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	Total
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
For 1931-95 Water Years													
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
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
1996	0.00	0.00	3.50	7.40	6.93	1.70	1.60	0.85	0.00				



**Precipitation Data, 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	Total
1931	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
1932	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
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

**Precipitation Data, 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	Total
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
<i>For 1931-95 Water Years</i>													
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	64	64	64	64	64	64	64	64	64	64	64	64	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
<i>Mean for 1984-95 Water Years*</i>													
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
1996	0.42	0.00	2.38	4.72	8.33	1.31	1.37	0.37	0.00	0.28	0.00	0.00	19.18
1997	1.82	5.41	10.97	9.07	0.11	0.00	0.00	0.00	0.00	0.10	0.00	0.00	27.48
1998	0.05	4.82	6.31	5.34	11.68	6.34	1.56	2.47	0.00	0.00	0.00	0.19	38.76
1999	0.40	3.62	0.72	3.70	2.08	4.99	1.98	0.00	0.00				
<i>For 1931-99 Water Years</i>													
Sum	46.85	129.71	208.37	250.82	237.62	221.90	85.93	18.52	6.05	2.06	3.12	18.84	1212.30
N	68	68	68	68	68	68	68	68	68	67	67	67	67
Mean	0.69	1.91	3.06	3.69	3.49	3.26	1.26	0.27	0.09	0.03	0.05	0.28	18.09
Max	3.01	7.32	10.97	15.05	11.68	12.43	6.40	2.47	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	0.74	1.78	2.35	2.78	2.96	2.81	1.37	0.51	0.33	0.10	0.21	0.60	7.51

\*Hydrologic base period for this study

**Precipitation Data, 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	4.56	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	0.46	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 Data, 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	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 Data, 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	0.00	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	0.90	2.48	2.01	4.75	1.97	8.70	5.65	0.00	0.00	0.00	0.00	1.00	27.46
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	26.07	95.04	100.76	126.57	142.95	129.13	53.15	6.17	3.04	0.50	2.18	17.81	650.12
N	32	32	32	32	32	32	32	32	32	31	31	31	29
Mean	0.81	2.97	3.15	3.96	4.47	4.04	1.66	0.19	0.10	0.02	0.07	0.57	22.42
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	0.68	2.54	2.19	4.14	3.70	2.62	1.78	0.47	0.34	0.06	0.26	1.26	9.11

**Precipitation Data, 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	Total
1950	0.06	1.10	2.78	3.41	3.12	1.40	1.02	0.17	0.00	0.59	0.00	0.00	13.65
1951	1.29	3.27	2.49	2.23	2.36	0.52	1.08	0.00	0.03	0.00	0.03	0.08	13.38
1952	0.52	1.73	6.69	6.20	0.72	6.07	1.16	0.00	0.11	0.00	0.00	0.00	23.20
1953	0.08	3.06	3.00	2.11	0.00	0.96	1.92	0.20	0.00	0.00	0.00	0.07	11.40
1954	0.00	3.27	0.43	4.77	2.26	3.98	1.18	0.09	0.03	0.07	0.00	0.00	16.08
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	0.00	0.00	0.00	8.19
1978	0.06	1.10	7.20	11.16	6.52	6.04	3.84	0.00	0.00	0.00	0.00	1.23	37.15
1979	0.00	0.60	0.00	3.59	3.86	2.86	0.35	0.39	0.00	0.00	0.00	0.00	11.65
1980	1.03	0.38	1.69	8.62	6.52	1.77	0.00	0.00	0.00	0.00	0.00	0.01	20.02
1981	0.00	0.00	1.07	2.53	2.42	7.14	0.60	0.00	0.00	0.00	0.00	0.00	13.76
1982	0.62	1.60	1.75	4.37	3.16	6.40	5.82	0.00	0.11	0.00	0.05	0.55	24.43
1983	1.06	3.40	1.98	6.91	7.79	7.01	2.24	0.56	0.00	0.00	0.44	0.09	31.48
1984	0.00	2.77	4.77	0.00	0.33	0.73	0.63	0.00	0.00	0.00	0.03	0.02	9.28
1985	0.92	3.51	2.65	0.29	0.39	1.72	0.10	0.00	0.00	0.02	0.00	0.04	9.64
1986	0.48	3.46	0.00	1.46	5.45	3.36	0.00	0.00	0.00	0.00	0.00	0.00	14.21
1987	3.65	0.31	1.43	2.08	4.68	3.45	0.39	0.10	0.00	0.01	0.00	0.00	16.10
1988	0.00	0.00	3.86	1.83	2.25	0.50	2.06	0.09	0.00	0.00	0.00	0.00	10.59
1989	0.00	1.62	6.68	0.87	1.24	0.55	0.07	0.21	0.00	0.00	0.00	0.56	11.80
1990	0.61	0.38	0.00	1.90	1.76	0.31	0.55	0.80	0.01	0.00	0.00	0.82	7.14
1991	0.01	0.28	0.77	1.58	2.37	17.06	0.18	0.00	0.28	0.00	0.19	0.00	22.72
1992	0.56	0.87	3.47	2.92	8.99	3.20	0.05	0.00	0.05	0.73	0.00	0.00	20.84
1993	0.81	0.00	5.12	7.95	6.65	4.02	0.18	0.04	0.22	0.00	0.00	0.00	24.99
1994	0.53	2.09	0.37	2.48	4.41	1.64	0.78	0.22	0.00	0.00	0.02	1.19	13.73
1995	1.13	2.67	1.32	10.80	1.41	7.44	0.94	1.83	0.75				
Sum	31.31	84.89	114.21	164.85	145.48	134.03	61.92	12.98	2.45	1.56	1.01	13.59	739.99
N	46	46	46	46	46	46	46	46	46	45	45	45	45
Mean	0.68	1.85	2.48	3.58	3.16	2.91	1.35	0.28	0.05	0.03	0.02	0.30	16.44
Max	3.65	5.76	7.20	13.18	9.92	17.06	5.82	2.25	0.75	0.73	0.44	4.20	37.15
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	0.88	1.52	1.98	2.97	2.67	3.08	1.54	0.49	0.13	0.14	0.07	0.70	7.32

**Precipitation Data, 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	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	38	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 Data, 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	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	2.28	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	0.62	0.00	0.06	0.00	18.38
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

*For 1952-95 Water Years*

Sum	37.79	99.59	138.05	192.55	175.55	167.99	69.51	14.25	2.78	1.13	3.43	15.76	918.38
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*	0.96	1.81	3.19	3.65	4.03	4.53	0.72	0.34	0.13	0.05	0.11	0.35	19.88
Max	2.96	7.77	8.95	18.92	12.69	14.13	6.47	2.92	0.71	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

\*Hydrologic base period for this study



**Precipitation Data, 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	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
STD	0.89	1.98	2.52	4.00	3.68	3.44	1.75	0.65	0.15	0.10	0.27	0.75	9.86
1996	0.02	0.45	3.30	4.08	10.38	1.65	1.51	0.95	0.00	0.07	0.00	0.00	22.41
1997	2.71	4.81	12.47	12.90	0.46	0.00	0.00	0.00	0.00	0.08	0.04	0.00	33.47
1998	0.10	5.79	4.56	5.91	15.82	4.06	3.36	3.24	0.07	0.00	0.00	0.40	43.31
1999	0.28	1.64	0.91	3.48	2.14	4.48	2.24	0.00	0.00	0.00	0.00	0.14	15.31
2000	0.00	1.70	0.00	3.98	10.89	1.54	3.30	0.17	0.44	0	0	0.03	22.05
<i>For 1952-2000 Water Years</i>													
Sum	40.90	113.98	159.29	222.90	215.24	179.72	79.92	18.61	3.29	1.28	3.47	16.33	1054.93
N	47	47	47	47	47	47	47	47	47	47	47	47	47
Mean	0.87	2.43	3.39	4.74	4.58	3.82	1.70	0.40	0.07	0.03	0.07	0.35	22.45
Max	2.96	7.77	12.47	18.92	15.82	14.13	6.47	3.24	0.71	0.54	1.23	3.79	47.40
Min	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.70
STD	0.91	1.99	2.80	3.97	4.12	3.34	1.71	0.75	0.16	0.10	0.25	0.72	10.01

**Precipitation Data, 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	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	1.56	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

*For 1954-95 Water Years*

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

\*Hydrologic base period for this study

**Precipitation Data, 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	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
1996	0.00	0.60	2.37	5.19	9.22	1.79	1.20	0.68	0.00	0.00	0.00	0.00	21.05
1997	2.68	5.85	9.32	8.29	0.12	0.00	0.00	0.00	0.00	0.15	0.00	0.00	26.41
1998	0.05	6.29	4.50	5.90	14.38	4.56	3.60	3.24	0.00	0.00	0.00	0.27	42.79
1999	0.00	2.48	1.12	3.63	2.31	5.10	2.78	0.00	0.00	0.00	0.00	0.00	17.42
2000	0.00	1.13	0.00	3.44	9.70	2.15	3.53	0.25	0.22	0.00	0.00	0.05	20.47
<i>For 1954-2000 Water Years</i>													
Sum	32.49	117.18	133.93	195.22	195.67	160.21	75.18	17.82	2.53	1.36	2.35	17.37	951.31
N	47.00	47.00	47.00	47.00	47.00	47.00	47.00	47.00	47.00	47.00	47.00	47.00	47.00
Mean	0.69	2.49	2.85	4.15	4.16	3.41	1.60	0.38	0.05	0.03	0.05	0.37	20.24
Max	2.68	8.99	9.32	17.57	14.38	12.04	6.07	3.24	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	0.78	2.32	2.45	3.37	3.77	2.98	1.68	0.72	0.13	0.12	0.23	0.71	9.09

**Precipitation Data, 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	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	0.60	0.03	2.47	2.71	0.41	0.10	1.17	0.00	0.00	0.00	0.53	9.27
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	92.40	121.21	173.59	166.26	127.43	61.25	11.27	1.23	0.35	1.15	11.85	776.70
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	22.19
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	9.27
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	10.48

**Precipitation Data, 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	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	2.61	9.00	2.61	0.03	0.00	0.00	0.45	0.00	0.00	19.30
1993	0.43	0.00	3.94	6.68	6.17	4.69	0.09	0.19	0.09	0.00	0.00	0.00	22.28
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
<i>For 1956-95 Water Years</i>													
Sum	28.87	70.84	95.98	129.78	125.01	122.97	52.76	12.56	1.85	1.14	1.63	12.32	655.71
N	40	40	40	40	40	40	40	40	40	40	40	40	40
Mean	0.72	1.77	2.40	3.24	3.13	3.07	1.32	0.31	0.05	0.03	0.04	0.31	16.39
Mean for 1984-95													
Water Years*	0.68	1.34	2.49	2.70	3.08	3.62	0.54	0.36	0.08	0.04	0.01	0.33	15.27
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	2.60	2.70	2.70	1.48	0.58	0.11	0.08	0.18	0.59	6.45
1996	0.00	0.48	1.26	2.67	7.07	1.24	0.72	0.36	0.00	0.35	0.00	0.00	14.15
1997	2.24	4.03	6.50	6.30	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.12

\*Hydrologic base period for this study

**Precipitation Data, 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	Total
1998	0.00	3.83	4.89	3.87	11.16	4.52	2.44	1.94	0.00	0.00	0.00	0.16	32.81
1999	0.28	1.15	1.83	2.04	1.23	4.51	1.99	0.00	0.00	0.00	0.00	0.00	13.03
2000	0.00	1.31	0.03	2.35	8.88	1.37	3.21	0.05	0.11	0.00	0.00	0.04	17.35

*For 1956-2000 Water Years*

Sum	31.39	81.64	110.49	147.01	153.40	134.61	61.12	14.91	1.96	1.49	1.63	12.52	752.17
N	45	45	45	45	45	45	45	45	45	45	45	45	45
Mean	0.70	1.81	2.46	3.27	3.41	2.99	1.36	0.33	0.04	0.03	0.04	0.28	16.71
Max	2.97	6.40	7.08	10.87	11.16	10.58	5.20	2.41	0.63	0.45	1.11	3.13	32.81
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	0.78	1.61	1.85	2.51	3.04	2.63	1.46	0.60	0.11	0.09	0.17	0.56	6.59

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	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

**Precipitation Data, 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	Total
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
<i>For 1959-95 Water Years</i>													
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
<i>Mean for 1984-95 Water Years*</i>													
	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
1996	0.00	0.40	1.59	3.05	9.53	1.46	0.51	0.00	0.00	0.00	0.00	0.00	16.54
1997	2.20	4.51	7.16	6.37	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.23	20.50
1998	0.00	5.17	3.69	5.00	10.71	4.09	2.81	2.05	0.00	0.00	0.00	0.15	33.67
1999	0.15	1.80	0.85	2.21	1.35	4.78	1.84	0.00	0.00	0.00	0.00	0.00	12.98
2000	0.00	0.00	1.46	2.02	7.13	2.06	1.65	0.00	0.15				
<i>For 1959-2000 Water Years</i>													
Sum	26.58	69.45	91.01	131.95	151.02	117.38	44.50	9.85	1.11	0.88	1.82	10.41	641.49
N	42	42	42	42	42	42	42	42	42	41	41	41	41
Mean	0.63	1.65	2.17	3.14	3.60	2.79	1.06	0.23	0.03	0.02	0.04	0.25	15.65
Max	2.44	6.16	7.16	11.35	11.73	10.77	3.93	2.35	0.60	0.57	1.28	3.67	33.67
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	5.68
STD	0.74	1.62	1.66	2.61	3.12	2.37	1.14	0.51	0.10	0.09	0.21	0.63	6.60

\*Hydrologic base period for this study

**Precipitation Data, 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	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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

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



**Precipitation Data, 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
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	1.46	0.10	0.36	0.95	0.00	0.00	0.00	0.60	6.72
1991	0.00	0.22	0.30	0.82	2.02	9.86	0.38	0.00	0.13	0.00	0.00	0.00	13.73
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
<i>For 1960-95 Water Years</i>													
Sum	25.11	66.14	80.88	111.57	110.59	107.94	42.89	9.52	1.34	1.10	1.82	11.44	570.34
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
<i>Mean for 1984-95 Water Years*</i>													
	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	9.86	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
1996	0.00	0.45	2.13	2.50	7.21	1.53	0.83	0.45	0.00	0.00	0.00	0.00	15.10
1997	2.16	4.17	6.88	6.28	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	19.57
1998	0.00	5.48	3.80	4.39	11.23	3.87	3.37	2.46	0.00	0.00	0.00	0.13	34.73
1999	0.30	2.32	0.86	2.56	1.59	4.82	2.30	0.00	0.00	0.00	0.00	0.00	14.75
2000	0.00	1.42	0.03	2.65	8.39	1.17	3.05	0.15	0.20	0.00	0.00	0.14	17.20
<i>For 1960-2000 Water Years</i>													
Sum	27.57	79.98	94.58	129.95	139.01	119.33	52.44	12.58	1.54	1.18	1.82	11.71	671.69
N	41	41	41	41	41	41	41	41	41	41	41	41	41
Mean	0.67	1.95	2.31	3.17	3.39	2.91	1.28	0.31	0.04	0.03	0.04	0.29	16.38
Max	2.77	6.38	7.25	13.15	11.23	9.86	4.85	2.46	0.64	0.67	1.10	3.22	34.73
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	0.78	1.71	1.76	2.73	3.14	2.53	1.42	0.61	0.11	0.11	0.18	0.61	6.91

\*Hydrologic base period for this study

**Precipitation Data, 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	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	0.15	0.00	0.20	22.50
1987	0.00	0.30	2.15	2.45						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	0.30	0.00	5.10	8.73	7.93	4.72	0.00	0.00	0.00	0.48	0.00	0.00	27.26
1994	0.20	2.10	2.05	2.80	4.52	1.57	1.25	1.23	0.00	0.00	0.00	0.45	16.17
1995	1.10	2.14	0.85	14.35	2.66	11.60	0.31	1.10	1.00	0.00	0.00	0.00	35.11
<i>For 1966-95 Water Years</i>													
Sum	17.01	42.00	64.55	73.87	84.69	63.05	29.60	2.84	0.41	1.94	0.50	7.38	293.90
N	19	19	19	19	18	18	18	18	18	19	19	19	15
Mean	0.90	2.21	3.40	3.89	4.71	3.50	1.64	0.16	0.02	0.10	0.03	0.39	19.59
<i>Mean for 1984-95 Water Years*</i>													
Max	0.86	1.72	2.88	3.60	4.02	4.62	0.75	0.34	0.11	0.15	0.00	0.23	19.69
Min	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	1.04	1.70	2.83	2.90	3.77	3.90	2.06	0.38	0.07	0.27	0.11	0.48	8.37
1996	0.00	0.59	0.36	4.71	10.02	1.89	1.45	0.94	0.00	0.00	0.00	0.00	19.96
1997	3.35	5.38	8.90	10.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.05
1998	0.00	5.73	4.08	6.24	16.03	4.29	4.18	4.85	0.07				
<i>For 1966-98 Water Years</i>													
Sum	21.46	55.84	78.74	109.59	113.40	80.83	35.54	9.73	1.48	1.94	0.50	7.38	377.02
N	23	23	23	23	22	22	22	22	22	22	22	22	18
Mean	0.93	2.43	3.42	4.76	5.15	3.67	1.62	0.44	0.07	0.09	0.02	0.34	20.95
Max	3.35	5.73	12.95	14.35	16.03	14.63	7.36	4.85	1.00	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	1.11	1.85	2.94	3.61	4.45	4.01	1.99	1.05	0.21	0.25	0.10	0.46	8.60

\*Hydrologic base period for this study

**Precipitation Data, 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	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

*For 1967-95 Water Years*

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
1996	0.00	0.50	1.25	3.05	7.80	1.60	1.15	0.45	0.00	0.00	0.00	0.00	15.80
1997	2.10	4.65	7.45	3.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.65
1998	0.00	5.40	4.10	4.70	9.90	4.00	1.90	2.60	0.00	0.00	0.00	0.15	32.75
1999	0.30	3.00	0.70	3.05	1.35	4.45	2.20	0.00	0.00	0.00	0.00	0.00	15.05
2000	0.00	1.55	0.00	2.80	9.60	1.60	3.15	0.00	0.00	0.00	0.00	0.50	19.20

*For 1967-2000 Water Years*

Sum	13.68	46.39	58.41	88.39	91.78	68.90	25.45	7.02	0.10	0.69	1.15	6.08	393.32
N	24	24	24	24	24	24	24	24	24	24	24	24	24
Mean	0.57	1.93	2.43	3.68	3.82	2.87	1.06	0.29	0.00	0.03	0.05	0.25	17.10
Max	2.40	5.40	7.45	10.33	9.90	7.56	4.78	2.60	0.05	0.57	1.15	2.90	32.75
Min	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.55
STD	0.69	1.59	1.77	2.75	3.15	2.02	1.26	0.66	0.01	0.12	0.23	0.62	6.81

**Precipitation Data, 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	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	0.80	0.00	0.00	19.66
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	2.35	1.45	12.95	2.15	11.18	0.62	2.16	0.70	0.00	0.00	0.00	35.51

*For 1968-95 Water Years*

Sum	26.72	58.37	79.79	116.20	104.18	113.69	31.48	8.54	1.75	0.90	2.31	9.53	553.46
N	28	28	28	28	28	28	28	28	28	28	28	28	28
Mean	0.95	2.08	2.85	4.15	3.72	4.06	1.12	0.31	0.06	0.03	0.08	0.34	19.77
Mean for 1984-95 Water Years*	1.10	1.84	2.66	3.10	3.59	4.17	0.64	0.33	0.13	0.07	0.01	0.26	17.90
Max	3.00	6.60	7.93	18.39	9.93	12.52	5.32	2.29	0.70	0.80	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	0.15	0.23	0.82	8.96
1996	0.00	0.75	1.24	3.26	6.59	1.41	0.15	0.00	0.00	0.00	0.00	0.00	13.40
1997	2.51	4.65	7.93	7.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	23.13
1998	0.00	6.06	2.21	5.12	11.06	4.07	3.07	3.15	0.00	0.00	0.00	0.10	34.84
1999	0.23	1.15	0.97	3.11	1.45	3.20	1.30	0.00	0.00	0.00	0.00	0.00	11.41
2000	0.00	1.51	0.00	2.57	8.49	1.68	2.76	0.10	0.20	0.00	0.00	0.02	17.33

*For 1968-2000 Water Years*

Sum	29.46	72.49	92.14	138.20	131.77	124.05	38.76	11.79	1.95	0.90	2.31	9.75	653.57
N	33	33	33	33	33	33	33	33	33	33	33	33	33
Mean	0.89	2.20	2.79	4.19	3.99	3.76	1.17	0.36	0.06	0.03	0.07	0.30	19.81
Max	3.00	6.60	7.93	18.39	11.06	12.52	5.32	3.15	0.70	0.80	0.79	4.18	40.35
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	7.52
STD	0.92	1.92	2.12	3.93	3.30	3.11	1.35	0.75	0.15	0.14	0.21	0.76	8.88

\*Hydrologic base period for this study

**Precipitation Data, 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	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				
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	119.26
N	8	8	8	8	8	8	8	8	8	7	7	7	7
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	17.04
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	8.16
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	6.98

**Precipitation Data, 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	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	0.93	0.00	0.00	0.00	0.73	7.50
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	0.61	0.00	0.00	18.75
1993	2.11	0.00	4.29	6.87	6.51	4.75	0.12	0.27	0.47	0.00	0.00	0.00	25.39
1994	0.19	2.13	1.46	2.54	3.54	0.81	1.52	0.80	0.00	0.00	0.03	0.97	13.99
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
<i>For 1970-95 Water Years</i>													
Sum	21.33	46.31	65.64	83.25	79.63	100.29	24.53	9.09	1.73	0.92	2.23	9.32	444.27
N	26	26	26	26	26	26	26	26	26	26	26	26	26
Mean	0.82	1.78	2.52	3.20	3.06	3.86	0.94	0.35	0.07	0.04	0.09	0.36	17.09
<i>Mean for 1984-95 Water Years*</i>													
Max	2.30	5.31	6.79	10.85	9.15	12.92	4.85	3.03	0.65	0.61	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	7.50
STD	0.74	1.55	1.81	2.67	2.50	3.12	1.21	0.68	0.16	0.12	0.28	0.75	6.95
1996	0.03	0.70	1.88	4.13	9.01	2.05	1.05	0.80	0.00	0.15	0.00	0.03	19.83
1997	3.18	5.01	9.07	9.09	0.15	0.00	0.00	0.00	0.00	0.11	0.06	0.05	26.72
1998	0.00	5.47	3.21	5.28	10.80	5.48	3.80	3.39	0.03	0.00	0.00	0.23	37.69
1999	0.32	2.15	1.20	3.08	1.87	4.16	2.61	0.00	0.01	0.00	0.06	0.00	15.46
2000	0.00	1.68	0.09	3.27	8.65	1.84	3.36	0.12	0.15	0.00	0.00	0.07	19.23
<i>For 1970-2000 Water Years</i>													
Sum	24.86	61.32	81.09	108.10	110.11	113.82	35.35	13.40	1.92	1.18	2.35	9.70	563.20
N	31	31	31	31	31	31	31	31	31	31	31	31	31
Mean	0.80	1.98	2.62	3.49	3.55	3.67	1.14	0.43	0.06	0.04	0.08	0.31	18.17
Max	3.18	5.47	9.07	10.85	10.80	12.92	4.85	3.39	0.65	0.61	1.20	3.54	37.69
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	7.50
STD	0.84	1.67	2.10	2.68	3.07	2.99	1.32	0.83	0.14	0.12	0.26	0.70	7.52

\*Hydrologic base period for this study

**Precipitation Data, 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	1.64	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	3.09	1.79	0.65	0.36	0.96	0.00	0.00	0.00	0.70	9.24
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	0.45	2.00	1.80	2.51	5.06	1.31	1.67	0.92	0.00	0.00	0.01	0.62	16.35
1995	1.81	2.87	1.47	14.02	2.25	12.01	0.91	1.59	0.78	0.00	0.00	0.00	37.71
<i>For 1973-95 Water Years</i>													
Sum	24.42	50.54	68.07	96.97	95.75	115.87	27.59	7.35	1.85	0.62	2.06	10.08	501.17
N	23	23	23	23	23	23	23	23	23	23	23	23	23
Mean	1.06	2.20	2.96	4.22	4.16	5.04	1.20	0.32	0.08	0.03	0.09	0.44	21.79
<i>Mean for 1984-95 Water Years*</i>													
Water Years*	1.02	2.12	2.97	3.43	3.87	4.65	0.74	0.32	0.15	0.03	0.02	0.30	19.63
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	0.65	0.00	0.00	0.00	0.00	0.00	0.00	8.68
STD	0.80	2.03	2.13	3.56	2.97	3.53	1.48	0.63	0.21	0.09	0.26	0.90	8.82
1996	0.03	0.76	2.45	5.63	9.70	2.88	1.22	0.62	0.00	0.00	0.00	0.00	23.29
1997	3.75	5.28	10.15	11.43	0.26	0.00	0.00	0.00	0.00	0.10	0.00	0.46	31.43
1998	0.11	6.43	3.86	7.03	14.73	5.47	3.40	4.51	0.01	0.00	0.00	0.38	45.93
1999	0.27	2.37	1.83	4.79	2.01	4.08	2.55	0.00	0.00	0.00	0.00	0.00	17.90
2000	0.00	1.67	0.03	3.22	11.85	1.84	3.52	0.24	0.36	0.00	0.00	0.03	22.76
<i>For 1973-2000 Water Years</i>													
Sum	28.58	67.05	86.39	129.07	134.30	130.14	38.28	12.72	2.22	0.72	2.06	10.95	642.48
N	28	28	28	28	28	28	28	28	28	28	28	28	28
Mean	1.02	2.39	3.09	4.61	4.80	4.65	1.37	0.45	0.08	0.03	0.07	0.39	22.95
Max	3.75	6.94	10.15	14.02	14.73	13.98	5.76	4.51	0.78	0.40	1.06	4.15	45.93
Min	0.00	0.00	0.03	0.02	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.68
STD	0.95	2.10	2.44	3.54	3.84	3.40	1.50	0.97	0.20	0.08	0.24	0.83	9.35

\*Hydrologic base period for this study

**Precipitation Data, 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	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				
Sum	12.63	27.84	38.82	65.15	68.32	80.28	21.98	6.62	1.04	0.82	2.08	9.12	278.13
N	20	20	20	20	20	20	20	20	20	19	19	19	17
Mean	0.63	1.39	1.94	3.26	3.42	4.01	1.10	0.33	0.05	0.04	0.11	0.48	16.36
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	0.24	0.87	7.35



**Precipitation Data, 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	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	0.00	0.08	0.44	18.77
1983	1.21	2.86	2.19	6.13	8.09	7.30	2.15	1.16	0.00	0.00	0.63	0.09	31.81
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										0.00	0.00	0.60	
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	

*For 1974-95 Water Years*

Sum	12.07	27.30	44.01	46.56	51.65	69.05	19.86	3.98	0.22	0.11	1.75	6.95	255.38
N	19	19	19	18	18	18	18	18	18	19	19	19	16
Mean	0.64	1.44	2.32	2.59	2.87	3.84	1.10	0.22	0.01	0.01	0.09	0.37	15.96
Max	1.66	3.72	6.36	7.09	8.09	11.00	4.60	2.22	0.12	0.11	1.03	2.57	31.81
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	1.18	1.65	2.27	2.26	2.84	1.39	0.55	0.03	0.02	0.26	0.63	7.09
1996	0.00	0.48	0.00	3.05	7.45	1.41	0.88	0.53	0.00	0.00	0.00	0.00	13.80
1997	2.30	4.95	7.10	7.63	0.06	0.03	0.00	0.00	0.00	0.07	0.01	0.00	22.15
1998	0.08	2.77	4.35	4.77	7.22	1.57	2.05	1.68	0.00				

*For 1974-98 Water Years*

Sum	14.45	35.50	55.46	62.01	66.38	72.06	22.79	6.19	0.22	0.18	1.76	6.95	291.33
N	22	22	22	21	21	21	21	21	21	21	21	21	18
Mean	0.66	1.61	2.52	2.95	3.16	3.43	1.09	0.29	0.01	0.01	0.08	0.33	16.19
Max	2.30	4.95	7.10	7.63	8.09	11.00	4.60	2.22	0.12	0.11	1.03	2.57	31.81
Min	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.42
STD	0.68	1.36	1.94	2.39	2.56	2.83	1.32	0.61	0.03	0.03	0.25	0.61	6.86

**Precipitation Data, 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	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				
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	72.21
N	5	5	5	5	5	5	5	5	5	4	4	4	4
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	18.05
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	9.59

**Precipitation Data, In Inches**

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	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
1982	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
<i>For 1982-95 Water Years</i>													
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
<i>Mean for 1984-95 Water Years*</i>													
Max	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
Min	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
1996	0.00	0.50	1.28	3.85	7.71	1.34	1.02	0.52	0.00				
1997													
1998													
1999	0.30	2.71	0.63	3.02	1.51	4.91	2.30	0.00	0.00	0.00	0.00	0.00	15.38
2000	0.00	1.06	0.05	2.57	7.61	1.29	3.31	0.10	0.20				
<i>For 1982-2000 Water Years</i>													
Sum	8.79	19.75	29.05	42.79	52.75	45.90	17.90	4.26	0.25	0.94	0.43	3.96	189.06
N	16	16	16	16	16	16	16	16	16	14	14	14	13
Mean	0.55	1.23	1.82	2.67	3.30	2.87	1.12	0.27	0.02	0.07	0.03	0.28	14.54
Max	1.60	2.85	6.25	10.82	7.71	9.02	3.31	1.87	0.20	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	0.55	0.91	1.53	2.50	2.53	2.55	1.09	0.49	0.05	0.18	0.11	0.50	6.42

\*Hydrologic base period for this study

**Precipitation Data, 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	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
<i>For 1982-95 Water Years</i>													
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
<i>Mean for 1984-95</i>													
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
1996	0.00	0.25	2.05	3.50	9.00	2.00	1.05	0.55	0.00	0.00	0.00	0.00	18.40
1997	2.30	2.10	7.60	9.05	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.15
1998	0.00	5.50	4.05	4.60	13.40	4.10	2.85	3.00	0.00	0.00	0.00	0.17	37.67
1999	0.28	1.30	1.00	3.45	1.80	3.80	1.85	0.00	0.00	0.00	0.00	0.25	13.73
2000	0.00	0.90	0.10	3.35	7.95	1.90	2.20	0.25	0.15		0.00	0.00	
<i>For 1982-2000 Water Years</i>													
Sum	12.53	35.85	47.60	73.23	83.41	73.50	18.50	8.05	0.90	0.00	0.50	9.56	346.83
N	19	19	19	19	19	19	19	19	19	18	19	19	18
Mean	0.66	1.89	2.51	3.85	4.39	3.87	0.97	0.42	0.05	0.00	0.03	0.50	19.27
Max	2.30	5.85	7.60	12.70	13.40	13.90	2.85	3.00	0.35	0.00	0.45	2.60	37.67
Min	0.00	0.00	0.00	0.20	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.50
STD	0.71	1.68	2.00	3.22	3.86	3.81	1.04	0.73	0.10	0.00	0.10	0.73	8.68

\*Hydrologic base period for this study

**Precipitation Data, 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	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
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
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

**Precipitation Data, 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	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
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	16.86
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 Data, 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	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
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
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

**Precipitation Data, 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	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
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 Data, 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: 34-57-00  
 LATITUDE: 120-26-00  
 RECORD BEGAN 1886

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	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
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

**Precipitation Data, 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: 34-57-00  
 LATITUDE: 120-26-00  
 RECORD BEGAN 1940

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
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
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

**Precipitation Data, 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: 34-57-00  
 LATITUDE: 120-26-00  
 RECORD BEGAN 0

Water Year	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
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
<i>For 1886-1995 Water Years</i>													
Sum	70.85	132.90	233.22	303.32	278.02	266.61	106.75	35.12	7.52	1.78	3.37	24.56	1464.02
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
<i>Mean for 1984-95</i>													
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
1996	0.00	0.37	1.66	1.86	7.55	0.97	0.63	0.33	0.00	0.00	0.00	0.00	13.37
1997	1.36	2.35	4.03	3.90	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.30	12.01
1998	0.00	3.67	2.60	4.26	13.08	3.35	3.55	1.80	0.00	0.00	0.00	0.35	32.66
1999	0.30	1.65	0.30	2.02	1.07	6.61	2.77	0.00	0.00	0.00	0.00	0.00	14.72
2000	0.00	1.20	0.00	1.60	9.16	1.33	3.35	0.00	0.00	0.00	0.00	0.00	
<i>For 1886-2000 Water Years</i>													
Sum	72.69	142.37	243.34	320.21	311.13	281.26	117.27	37.28	7.52	1.78	3.37	26.71	1548.29
N	115	115	115	115	115	115	115	115	115	115	115	114	114
Mean	0.63	1.24	2.12	2.78	2.71	2.45	1.02	0.32	0.07	0.02	0.03	0.23	13.58
Max	7.53	8.80	7.50	10.31	13.08	8.72	4.27	2.39	1.96	0.62	1.20	3.47	32.66
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	0.96	1.36	1.68	2.21	2.44	1.96	1.05	0.51	0.24	0.07	0.14	0.55	5.16

\*Hydrologic base period for this study

**Precipitation Data, 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	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 Data, 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	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
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 Data, 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	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