

Station	Elev. (ft msl)	Period of Record		Avg (in/yr)	Min	Max	Observer	Data Source	see Table:
		(WY's)	(no. yrs)						
Santa Cruz	130	1868 - 2008	141	29	10	61	NOAA	<a href="http://www.wrcc.dri.edu/summary/climsmnca.html">http://www.wrcc.dri.edu/summary/climsmnca.html</a>	3-5
		1931 - 2008	78	31	15	61			3-2
Ben Lomond 4	450	1973 - 2008	36	49	20	96			3-3
San Gregorio 2 SE	275	1954 - 2007	54	29	14	55			
Lockheed	2,350	1889 - 2007	119	55	20	124	Lockheed Corp. (formerly Boulder Creek Locatelli)	3-5	
		1959 - 2007	49	59	24	106		3-2	
Ben Lomond (BLO)	2,630	2002 - 2007	6	56	43	88	CDF	<a href="http://cdec.water.ca.gov/snow_rain.html">http://cdec.water.ca.gov/snow_rain.html</a>	3-7
SLVWD Office		1981 - 2008	28	49	19	114	SLVWD	3-6	
North Boulder Creek		2007 - 2008	2					3-8	
Lyon WTP		2007 - 2008	2						
Quail Hollow Tank		2007 - 2008	2						
Olympia Well		2007 - 2008	2						
Pasatiempo Well 6		2007 - 2008	2						
El Pueblo Yard		1946 - 2007	62	43	20	86	SVWD		3-9

**Table 3-1**  
**Summary of Selected Rainfall Stations**

WY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total	Percent of Avg.
1931				3.90	1.60	1.80	0.45	1.10	0.50	0.00	0.00	0.00		
1932	0.85		11.90	4.15	5.22	0.93	0.71	1.31	0.03	0.05	0.02	0.01		
1933	0.02	1.13		3.75	9.98	1.51	3.35	0.30	1.47	0.06	0.02	0.03	0.08	21.70 71%
1934	1.43	0.00	7.48	0.61	6.54	0.02	0.40	0.32	1.32	0.00	0.02	0.25	18.39	60%
1935	1.33	3.90	5.95	6.23	0.79	1.60	6.40	0.05	0.00	0.00	0.69	0.06	27.00	88%
1936	2.74	0.66	4.68	6.30	11.98	1.55	1.69	1.72	0.84	0.53	0.00	0.00	32.69	106%
1937	1.10	0.06	7.20	7.39	7.49	9.49	0.92	0.08	0.31	0.00	0.00	0.01	34.05	111%
1938	0.93	2.82	9.31	7.35	11.92	8.10	2.02	0.23	0.02	0.00	0.00	0.12	42.82	139%
1939	3.02	1.36	1.36	4.71	4.06	3.93	0.25	1.21	0.00	0.00	0.00	1.32	21.22	69%
1940	1.07	0.68	1.61	19.13	10.85	8.21	0.71	1.15	0.02	0.12	0.00	0.24	43.79	142%
1941	2.09	1.06	12.83	13.61	14.41	7.61	7.66	1.77	0.22	0.00	0.00	0.03	61.29	199%
1942	0.86	2.22	15.02	6.96	7.28	3.04	4.34	2.50	0.00	0.00	0.00	0.07	42.29	138%
1943	1.62	7.97	7.00	8.80	4.23	7.87	2.01	0.00	0.00	0.00	0.00	0.00	39.50	129%
1944	1.58	0.81	3.33	7.90	8.13	1.41	2.17	1.55	0.51	0.00	0.00	0.00	27.39	89%
1945	2.59	8.58	3.62	2.22	8.58	5.95	0.44	1.13	0.08	0.00	0.00	0.00	33.19	108%
1946	2.15	3.43	13.48	1.73	3.96	3.64	0.00	1.72	0.00	0.04	0.00	0.11	30.26	98%
1947	0.38	6.47	2.89	0.94	3.20	4.01	0.22	0.55	0.40	0.00	0.00	0.00	19.06	62%
1948	5.22	1.37	2.61	1.38	2.77	4.71	5.07	1.39	0.05	0.00	0.04	0.00	24.61	80%
1949	0.74	0.70	10.49	4.23	5.13	8.19	0.02	0.36	0.00	0.03	0.07	0.08	30.04	98%
1950	0.05	2.11	4.91	11.72	7.11	2.48	1.87	0.76	0.03	0.01	0.00	0.35	31.40	102%
1951	1.97	11.39	9.35	5.31	4.20	3.60	1.46	1.00	0.03	0.00	0.04	0.00	38.35	125%
1952	1.49	2.11	15.79	13.60	3.24	5.87	1.38	0.33	0.77	0.00	0.00	0.00	44.58	145%
1953	0.00	2.86	7.82	3.53	0.00	4.10	4.97	0.69	0.22	0.00	0.22	0.00	24.41	79%
1954	0.33	3.73	0.73	4.60	3.79	6.65	2.56	0.64	0.47	0.00	0.34	0.00	23.84	78%
1955	0.10	5.61	4.82	6.58	1.88	0.48	3.58	0.83	0.00	0.00	0.00	0.00	23.88	78%
1956	0.05	3.74	21.07	9.34	1.46	0.26	1.89	1.49	0.00	0.07	0.02	0.28	39.67	129%
1957	1.83	0.02	0.96	5.90	4.90	2.03	1.96	4.03	0.16	0.06	0.05	0.29	22.19	72%
1958	5.34	0.97	5.48	7.70	13.86	10.06	5.75	0.43	0.18	0.00	0.00	0.32	50.09	163%
1959	0.06	0.37	0.75	10.40	7.13	1.01	0.56	0.00	0.00	0.00	0.09	4.40	24.77	81%
1960	0.00	0.00	0.78	8.98	7.03	2.44	1.67	0.39	0.02	0.02	0.02	0.08	21.43	70%
1961	0.31	4.35	1.76	3.92	1.27	3.97	0.98	0.80	0.15	0.00	0.11	0.16	17.78	58%
1962	0.17	3.66	2.08	3.68	11.96	4.70	0.80	0.02	0.04	0.00	0.05	0.31	27.47	89%
1963	2.95	0.99	3.70	7.15	4.91	5.81	7.41	0.55	0.03	0.02	0.06	0.16	33.74	110%
1964	1.85	6.72	0.33	5.33	0.20	3.26	0.16	0.44	0.37	0.00	0.17	0.20	19.03	62%
1965	1.67	3.81	13.06	3.78	1.71	2.98	3.43	0.02	0.07	0.00	0.11	0.00	30.64	100%
1966	0.12	6.93	4.54	2.47	4.72	0.39	0.79	0.10	0.15	0.32	0.10	0.15	20.48	67%
1967	0.05	6.17	6.87	8.74	0.74	7.26	8.26	0.40	1.51	0.00	0.00	0.00	40.00	130%
1968	0.13	2.14	3.10	3.82	4.93	5.64	0.97	0.18	0.00	0.00	0.55	0.00	21.46	70%
1969	1.50	4.31	7.27	14.80	12.01	1.99	2.87	0.08	0.04	0.00	0.00	0.07	44.94	146%
1970	1.77	1.34	6.75	13.03	3.11	3.39	0.23	0.03	0.53	0.00	0.00	0.00	30.18	98%
1971	1.24	9.55	8.18	2.44	1.02	2.45	1.74	0.24	0.00	0.00	0.06	0.32	27.24	89%
1972	0.48	3.74	7.48	1.79	1.81	0.32	1.92	0.03	0.14	0.04	0.00	1.33	19.08	62%
1973	3.41	10.54	3.38	7.84	12.99	5.01	0.05	0.04	0.00	0.00	0.00	0.41	43.67	142%
1974	2.71	9.56	6.27	5.99	2.00	7.35	4.86	0.02	0.31	2.89	0.00	0.00	41.96	137%
1975	1.94	1.07	3.91	1.28	5.72	6.65	2.63	0.00	0.10	0.14	0.85	0.00	24.29	79%
1976	3.65	0.49	0.30	0.32	3.89	1.93	2.11	0.00	0.20	0.01	1.25	1.22	15.37	50%
1977	0.46	3.80	2.63	1.75	1.55	2.24	0.21	0.74	0.07	0.01	0.00	1.35	14.81	48%
1978	0.26	1.72	6.09	11.40	6.13	5.98	5.30	0.01	0.08	0.00	0.00	0.62	37.59	122%
1979	0.00	4.48	1.08	10.06	7.55	3.83	1.29	0.66	0.00	0.20	0.00	0.00	29.15	95%
1980	3.45	2.52	6.79	9.97	8.69	2.02	2.21	0.61	0.17	0.71	0.00	0.00	37.14	121%
1981	0.04	0.17	2.57	7.05	2.62	8.51	0.26	0.35	0.00	0.00	0.00	0.17	21.74	71%
1982	1.26	7.05	4.36	13.38	6.63	7.84	6.05	0.05	0.27	0.00	0.06	1.19	48.14	157%
1983	2.50	6.47	2.99	9.16	9.74	15.16	5.08	0.60	0.00	0.00	0.23	2.00	53.93	175%
1984	1.07	8.58	8.14	0.33	2.40	1.94	1.18	0.11	0.15	0.00	0.00	0.11	24.01	78%
1985	3.59	11.06	2.39	1.71	3.28	6.60	0.42	0.20	0.14	0.13	0.02	0.14	29.68	97%
1986	0.92	5.68	3.91	6.93	12.20	8.24	0.77	0.60	0.00	0.00	0.00	1.74	40.99	133%
1987	0.05	0.05	1.68	3.47	5.28	4.48	0.84	0.00	0.00	0.00	0.00	0.00	15.85	52%
1988	0.94	3.05	7.16	4.44	0.74	0.05	1.74	0.59	0.02	0.00	0.00	0.00	18.73	61%
1989	0.30	4.46	7.78	1.36	1.52	7.00	0.72	0.10	0.02	0.00	0.07	0.87	24.20	79%
1990	2.19	1.12	0.05	2.64	3.33	2.65	0.43	4.11	0.03	0.00	0.00	0.21	16.76	55%
1991	0.67	0.47	1.65	0.81	4.92	10.60	0.80	0.06	0.26	0.02	0.04	0.06	20.36	66%
1992	2.26	1.51	4.25	3.19	11.10	4.35	0.28	0.00	0.55	0.00	0.02	0.00	27.51	90%
1993	1.18	0.23	7.10	13.85	8.02	3.44	1.37	0.94	0.56	0.00	0.00	0.00	36.69	119%
1994	0.61	2.73	4.00	2.59	8.18	0.74	1.82	1.98	0.00	0.00	0.00	0.06	22.71	74%
1995	0.36	4.88	3.24	17.56	0.47	8.49	5.13	1.34	1.54	0.00	0.00	0.00	43.01	140%
1996	0.00	0.19	6.54	8.40	9.20	3.15	1.58	2.43	0.00	0.00	0.00	0.00	31.49	102%
1997	2.44	7.33	13.74	10.12	0.29	1.26	0.70	0.07	0.19	0.00	0.45	0.01	36.60	119%
1998	0.47	9.59	3.67	15.58	18.63	4.68	3.11	3.87	0.14	0.00	0.08	0.08	59.82	195%
1999	0.88	5.30	1.74	7.44	10.66	4.08	2.97	0.04	0.34	0.00	0.02	0.18	33.65	109%
2000	0.29	3.41	0.77	11.86	14.06	2.41	1.60	1.27	0.19	0.00	0.22	0.31	36.39	118%
2001	4.84	1.28	1.04	5.92	7.00	3.29	1.76	0.00	0.10	0.00	0.02	0.20	25.45	83%
2002	0.70	6.28	11.07	3.73	2.28	3.52	0.35	0.81	0.00	0.01	0.04	0.00	28.79	94%
2003	0.00	4.27	15.21	1.85	1.86	1.47	3.50	0.90	0.07	0.00	0.01	0.00	29.14	95%
2004	0.31	3.38	9.93	3.27	5.64	1.34	0.43	0.09	0.01	0.06	0.00	0.02	24.48	80%
2005	5.80	2.20	10.28	5.98	6.26	7.65	3.03	1.34	1.05	0.01	0.02	0.01	43.63	142%
2006	0.12	1.86	12.62	6.37	2.76	10.99	7.00	0.78	0.00	0.00	0.00	0.00	42.50	138%
2007	0.14	3.26	4.73	0.80	5.86	0.33	1.53	0.55	0.00	0.00	0.00	0.00	17.20	56%
2008	1.40	0.54	3.83	12.16	6.10	0.51	0.48	0.00	0.00	0.00	0.00	0.01	25.03	81%
Avg	1.36	3.56	5.83	6.49	5.67	4.31	2.14	0.75	0.20	0.07	0.08	0.28	30.73	101%
Min	0.00	0.00	0.05	0.32	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	14.81	48%
Max	5.80	11.39	21.07	19.13	18.63	15.16	8.26	4.11	1.54	2.89	1.25	4.40	61.29	199%
% of Avg WY	4.4%	12%	19%	21%	18%	14%	6.9%	2.4%	0.7%	0.2%	0.3%	0.9%	100%	

Sources: www.ncdc.noaa.gov/coop-precip/california.txt; www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?cabeni+nca

Record appears to be affected by one or more changes in station location.

Station elevation 130 ft msl.

See station location in Figure 3-1.

Table 3-2

Monthly Rainfall Record for Santa Cruz NOAA Station,  
WYs 1931-2008 (inches)

WY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total	Percent of Avg.	
1973				14.55	19.08	5.57	0.13	0.00	0.00	0.00	0.00	0.33			
1974	4.62	14.73	9.11	7.55	2.40	13.00	4.15	0.00	0.35	1.66	0.00	0.00	57.57	118%	102%
1975	2.78	2.30	7.26	1.70	10.80	12.25	3.68	0.04	0.19	0.13	0.79	0.03	41.95	86%	
1976	6.76	0.67	0.81	0.31	4.56	2.12	2.60	0.03	0.20	0.03	1.73	1.78	21.60	44%	43%
1977	0.45	2.97	3.65	2.87	1.99	3.83	0.37	1.29	0.03	0.05	0.00	2.47	19.97	41%	
1978	0.59	5.76	10.61	24.77	10.27	9.89	6.95	0.02	0.04	0.02	0.00	1.79	70.71	145%	121%
1979	0.00	5.50	1.82	12.88	13.26	6.13	1.60	1.14	0.00	0.30	0.04	0.02	42.69	87%	
1980	5.65	3.47	11.02	13.55	19.20	2.90	3.98	0.71	0.27	0.66	0.01	0.02	61.44	126%	
1981	0.08	0.25	6.31	12.14	3.89	9.85	0.15	0.13	0.00	0.00	0.00	0.22	33.02	68%	
1982	2.83	13.33	10.42	23.02	6.91	13.98	8.34	0.04	0.26	0.01	0.08	1.27	80.49	165%	
1983	4.07	13.14	9.20	15.16	20.35	22.61	8.62	1.05	0.04	0.00	0.34	1.07	95.65	196%	
1984	1.29	16.50	13.34	0.77	3.08	3.10	1.47	0.16	0.34	0.03	0.00	0.17	40.25	82%	
1985	3.60	14.81	3.65	1.46	5.56	9.61	0.68	0.16	0.27	0.17	0.03	0.68	40.68	83%	
1986	1.31	7.73	6.13	10.64	24.20	14.43	0.76	0.51	0.00	0.05	0.06	1.38	67.20	138%	
1987	0.14	0.11	3.12	5.85	9.86	7.02	0.63	0.00	0.11	0.02	0.00	0.00	26.86	55%	
1988	1.58	4.33	12.07	5.64	0.88	0.06	4.30	1.31	0.11	0.02	0.00	0.01	30.31	62%	
1989	0.39	6.95	9.44	1.16	2.23	11.34	1.20	0.25	0.07	0.00	0.11	1.15	34.29	70%	
1990	3.75	2.03	0.06	4.61	4.89	2.52	0.42	5.76	0.01	0.00	0.08	0.17	24.30	50%	
1991	0.67	0.47	2.52	0.70	5.32	20.52	0.99	0.17	0.46	0.02	0.11	0.05	32.00	66%	
1992	3.53	2.24	6.55	3.92	16.95	6.16	0.68	0.06	0.93	0.02	0.05	0.02	41.11	84%	
1993	4.08	0.51	13.36	20.98	12.24	3.06	1.73	1.03	0.66	0.00	0.00	0.05	57.70	118%	
1994	0.75	3.78	6.65	3.86	11.36	0.97	3.23	2.42	0.04	0.00	0.00	0.03	33.09	68%	
1995	1.32	10.61	5.54	26.51	1.17	15.88	5.14	1.78	1.11	0.01	0.00	0.00	69.07	141%	
1996	0.00	0.39	12.24	17.48	16.39	5.61	3.64	5.35	0.04	0.00	0.00	0.00	61.14	125%	128%
1997	2.64	9.23	24.51	18.41	0.29	1.66	0.82	0.16	0.25	0.00	0.73	0.00	58.70	120%	
1998	0.81	13.08	5.55	19.34	27.98	5.89	4.05	6.00	0.07	0.00	0.00	0.03	82.80	170%	
1999	1.14	8.59	2.45	11.04	11.79	6.84	3.82	0.04	0.29	0.00	0.04	0.27	46.31	95%	
2000	0.44	6.06	0.95	19.14	20.77	2.93	3.86	1.22	0.20	0.00	0.13	0.54	56.24	115%	91%
2001	6.34	1.68	1.26	10.22	11.38	3.85	2.36	0.00	0.12	0.00	0.01	0.07	37.29	76%	
2002	1.19	10.87	20.21	4.93	3.23	5.41	0.45	1.00	0.00	0.00	0.03	0.00	47.32	97%	
2003	0.00	7.43	24.77	2.52	3.15	2.44	7.52	1.10	0.08	0.00	0.00	0.00	49.01	100%	
2004	0.00	4.49	19.39	6.14	11.33	1.65	0.80	0.05	0.00	0.01	0.00	0.20	44.06	90%	145%
2005	8.70	4.24	15.49	11.83	8.05	10.36	4.35	2.47	1.26	0.00	0.00	0.11	66.86	137%	
2006	0.22	4.02	25.95	7.20	5.90	16.84	13.58	0.91	0.00	0.00	0.00	0.00	74.62	153%	
2007	1.19	3.90	7.12	1.31	11.59	0.43	2.43	0.66	0.00	0.00	0.00	0.40	29.03	59%	69%
2008	2.31	0.39	6.70	20.57	7.64	0.41	0.75	0.00	0.00	0.00	0.00	0.02	38.79	79%	
2009	1.56	5.79	5.34	0.95											
Avg	2.13	5.90	9.02	9.88	9.72	7.25	3.06	1.03	0.22	0.09	0.12	0.40	48.82	100%	96%
Min	0.00	0.11	0.06	0.31	0.29	0.06	0.13	0.00	0.00	0.00	0.00	0.00	19.97	41%	43%
Max	8.70	16.50	25.95	26.51	27.98	22.61	13.58	6.00	1.26	1.66	1.73	2.47	95.65	196%	145%
% of Avg WY	4.4%	12%	18%	20%	20%	15%	6.3%	2.1%	0.4%	0.2%	0.2%	0.8%	100%		

Italics indicate estimates

Sources: [www.ncdc.noaa.gov/coop-precip/california.txt](http://www.ncdc.noaa.gov/coop-precip/california.txt); [www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?cabnl+nca](http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?cabnl+nca)

Station elevation 450 ft msl.

See station location in Figure 3-1.

**Table 3-3**  
**Monthly Rainfall Record for Ben Lomond 4 NOAA Station, WYs 1973-2007**  
**(inches)**

WY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total	Percent of Avg.	
1959	0.00	2.00	2.00	20.00	12.00	1.00	1.00	0.00	0.00	0.00	0.00	12.00	50.00	85%	89%
1960	0.00	0.00	2.00	14.00	12.00	6.00	3.00	1.00	0.00	0.00	0.00	0.00	38.00	65%	
1961	2.00	11.00	4.00	4.00	5.00	8.00	3.00	2.00	0.00	0.00	0.00	0.00	39.00	66%	
1962	1.00	4.00	8.00	6.00	23.00	10.00	1.00	1.00	0.00	0.00	0.00	1.00	55.00	93%	
1963	19.00	2.00	8.00	14.00	12.00	10.00	12.00	0.00	0.00	0.00	0.00	1.00	78.00	133%	
1964	4.00	15.00	1.00	11.00	0.00	6.00	1.00	2.00	3.00	0.00	0.00	0.00	43.00	73%	
1965	3.00	12.00	26.00	15.00	3.00	2.00	13.00	0.00	0.00	0.00	0.00	0.00	74.00	126%	
1966	0.00	10.00	9.00	14.00	7.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	44.00	75%	
1967	1.00	12.00	15.00	26.00	2.00	15.00	16.00	0.00	0.00	0.00	0.00	0.00	87.00	148%	
1968	1.00	3.00	9.00	15.00	8.00	7.00	1.00	2.29	0.00	0.00	1.00	0.00	47.29	80%	
1969	4.00	6.00	17.00	41.00	9.00	15.00	9.00	5.32	0.00	0.00	0.00	0.00	106.32	181%	
1970	6.00	2.00	22.00	27.00	5.00	5.00	0.00	1.47	0.00	0.00	0.00	0.00	68.47	116%	
1971	3.00	18.00	15.00	4.00	1.00	8.00	3.45	0.00	0.00	0.00	0.00	0.00	52.45	89%	
1972	1.00	5.00	14.00	3.00	5.00	2.00	5.00	0.00	0.00	0.00	0.00	3.00	38.00	65%	
1973	7.00	17.00	5.00	17.00	19.00	10.75	0.00	0.00	0.00	0.00	0.00	1.00	76.75	130%	
1974	7.00	20.00	14.00	7.00	6.00	16.00	11.90	0.00	0.00	3.00	0.00	4.50	89.40	152%	
1975	3.50	7.00	3.00	15.00	13.50	5.47	0.00	0.00	0.00	0.00	0.00	0.00	47.47	81%	
1976	6.80	2.20	2.00	0.20	1.80	7.00	5.90	0.00	0.00	0.00	3.00	1.90	30.80	52%	
1977	0.38	3.20	2.65	3.05	3.85	5.20	0.48	2.80	0.12	0.00	0.00	2.65	24.38	41%	
1978	1.45	8.33	13.20	24.32	10.57	9.24	8.88	0.12	0.00	0.00	0.00	2.15	78.26	133%	
1979	0.00	4.68	2.32	13.00	14.81	7.16	2.02	1.22	0.00	0.13	0.11	0.00	45.45	77%	
1980	7.03	4.87	9.95	14.47	15.39	3.52	5.14	1.35	0.36	0.50	0.00	0.00	62.58	106%	
1981	0.20	0.10	5.16	13.19	4.72	11.62	0.35	0.58	0.00	0.00	0.00	0.36	36.28	62%	
1982	4.40	16.72	15.65	24.30	10.54	15.37	12.81	0.00	0.29	0.00	0.00	1.60	101.68	173%	
1983	5.37	14.10	11.94	16.89	21.33	24.46	8.44	1.90	0.15	0.00	0.01	1.04	105.63	180%	
1984	2.93	20.42	18.05	0.71	5.13	3.85	1.91	0.34	0.78	0.00	0.00	0.01	54.13	92%	
1985	5.72	16.07	4.43	2.08	7.25	10.28	0.79	0.63	0.44	0.18	0.08	1.38	49.33	84%	
1986	1.75	9.56	6.49	12.78	26.64	14.51	1.10	0.59	0.00	0.00	0.00	2.02	75.44	128%	
1987	0.15	0.34	3.27	7.54	10.92	10.36	1.10	0.29	0.00	0.00	0.00	0.01	33.98	58%	
1988	2.53	4.58	16.54	6.43	0.99	0.36	5.62	2.19	0.19	0.00	0.00	0.00	39.43	67%	
1989	0.34	11.53	9.40	3.07	2.55	16.54	1.55	0.48	0.07	0.00	0.04	1.37	46.94	80%	
1990	4.38	2.92	0.19	6.96	4.85	3.64	1.54	8.12	0.00	0.00	0.18	0.26	33.04	56%	
1991	0.48	0.83	3.15	0.83	5.85	22.80	1.47	0.52	1.36	0.00	0.09	0.03	37.41	64%	
1992	4.86	2.64	7.89	4.28	19.18	8.29	1.12	0.00	2.23	0.00	0.07	0.00	50.56	86%	
1993	5.38	0.89	15.23	23.71	13.49	3.70	0.00	0.00	0.00	0.00	0.03	0.04	62.47	106%	
1994	1.12	6.08	8.77	4.42	9.69	1.17	3.83	1.57	0.00	0.00	0.00	0.00	36.65	62%	
1995	0.69	17.66	6.42	30.38	0.78	17.59	7.47	2.58	1.47	0.00	0.00	0.00	85.04	145%	
1996	0.00	0.30	14.16	16.94	17.83	4.71	4.80	5.54	0.00	0.00	0.00	0.00	64.28	109%	
1997	3.34	10.44	24.29	23.96	0.81	2.82	1.55	0.06	0.23	0.00	0.00	0.00	67.50	115%	
1998	1.71	14.13	5.87	27.26	31.45	7.43	4.28	7.95	0.49	0.05	0.00	0.30	100.92	172%	
1999	1.70	8.19	5.37	18.63	17.09	8.25	4.22	0.28	0.49	0.00	0.29	0.23	64.74	110%	
2000	1.05	7.25	1.34	24.15	26.34	4.60	5.31	3.45	0.53	0.01	0.00	0.72	74.75	127%	
2001	7.00	1.92	2.31	9.92	12.54	5.37	4.18	0.00	0.26	0.00	0.00	0.10	43.60	74%	
2002	1.64	12.85	20.52	7.03	4.87	5.44	0.96	1.87	0.03	0.00	0.00	0.01	55.22	94%	
2003	0.00	5.34	24.03	3.19	5.13	2.83	10.95	1.70	0.12	0.00	0.00	0.11	53.40	91%	
2004	0.07	4.36	8.42	17.45	12.40	2.03	1.53	0.09	0.05	0.00	0.00	0.20	46.60	79%	
2005	8.12	3.63	17.14	12.12	8.68	11.75	3.80	4.55	0.56	0.00	0.00	0.23	70.58	120%	
2006	0.80	4.35	15.69	22.64	4.95	18.55	12.45	0.90	0.05	0.00	0.00	0.00	80.38	137%	
2007	0.40	5.66	7.86	1.85	15.98	1.20	2.41	0.69					36.05	61%	
2008															
Avg	2.94	7.59	9.87	13.28	10.02	8.18	4.29	1.38	0.28	0.08	0.10	0.82	58.84	100%	100%
Min	0.00	0.00	0.19	0.20	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	24.38	41%	58%
Max	19.00	20.42	26.00	41.00	31.45	24.46	16.00	8.12	3.00	3.00	3.00	12.00	106.32	181%	130%
% of Avg WY	5.0%	13%	17%	23%	17%	14%	7.3%	2.3%	0.5%	0.1%	0.2%	1.4%	100%		

Source: LMMS electroic communication.

Station is 4.5 mi W-NW of Boulder Creek at elevation 2,350 ft msl.

See station location in Figure 3-1.

**Table 3-4**  
**Monthly Rainfall Record for Lockheed Station, WYs 1959-2007**  
**(inches)**

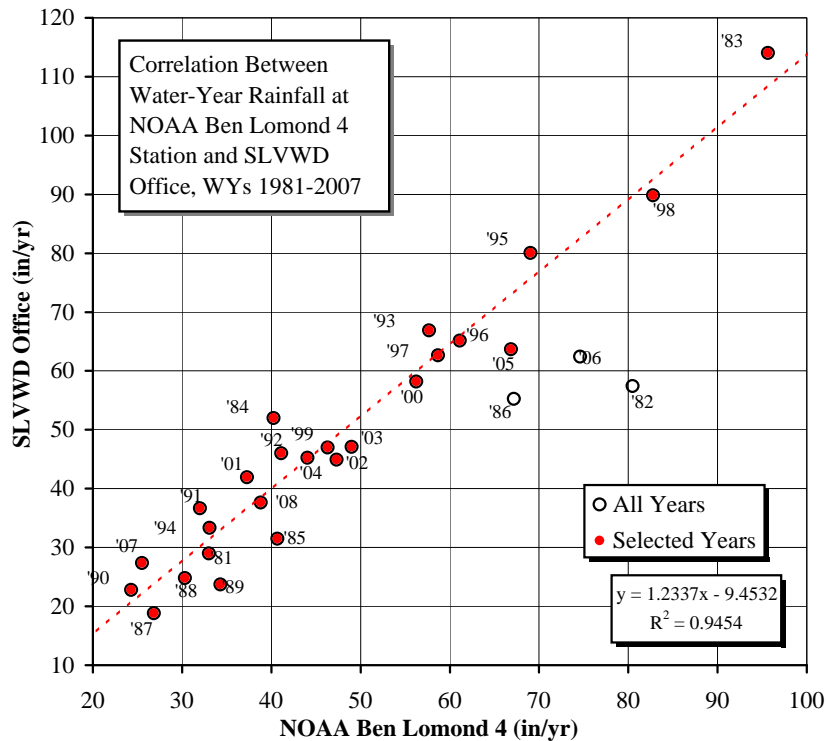
WYs 1868-1935						
Water Year	Santa Cruz		Lockheed		(yrs)	
	in/yr	Percent of Avg	(in/yr)	(% of Avg)		
1868	30.08	105%				
1869	18.08	63%				
1870	20.49	71%				
1871	14.95	52%				
1872	32.17	112%				
1873	16.27	57%				
1874	25.28	88%				
1875	20.25	71%				
1876	33.67	117%				
1877	11.58	40%				
1878	36.57	127%				
1879	20.84	73%				
1880	18.22	64%				
1881	31.03	108%				
1882	23.09	80%				
1883	20.51	72%				
1884	30.57	107%				
1885	16.22	57%				
1886	32.60	114%				
1887	17.59	61%				
1888	22.86	80%				
1889	22.98	80%	49.05	89%		
1890	54.95	192%	124.26	225%		
1891	20.48	71%	61.27	111%		
1892	24.20	84%	47.73	87%		
1893	35.89	125%	77.15	140%		
1894	32.88	115%	46.68	85%		
1895	37.42	130%	82.45	150%		
1896	23.90	83%	50.41	91%		
1897	27.81	97%	52.36	95%		
1898	14.78	52%	24.25	44%		
1899	22.89	80%	55.84	101%		
1900	28.51	99%	45.44	82%		
1901	26.78	93%	54.49	99%		
1902	28.71	100%	54.40	99%		
1903	26.70	93%	48.47	88%		
1904	33.60	117%	57.61	105%		
1905	30.70	107%	62.25	113%		
1906	32.54	113%	73.89	134%		
1907	35.95	125%	64.25	117%		
1908	23.32	81%	33.49	61%		
1909	42.85	149%	73.49	133%		
1910	29.82	104%	42.45	77%		
1911	33.46	117%	57.83	105%		
1912	20.59	72%	31.54	57%		
1913	13.75	48%	21.92	40%		
1914	34.43	120%	69.34	126%		
1915	42.45	148%	68.25	124%		
1916	30.35	106%	53.02	96%		
1917	18.37	64%	38.77	70%		
1918	18.58	65%	22.01	40%		
1919	21.66	76%	45.29	82%		
1920	20.45	71%	31.44	57%		
1921	29.79	104%	55.04	100%		
1922	28.13	98%	44.89	81%		
1923	28.12	98%	49.32	89%		
1924	10.20	36%	20.15	37%		
1925	30.70	107%	41.65	76%		
1926	25.67	89%	39.63	72%		
1927	29.25	102%	39.77	72%		
1928	22.00	77%	41.80	76%		
1929	17.60	61%	26.55	48%		
1930	21.87	76%	40.62	74%		
1931	14.28	50%	20.58	37%		
1932	33.09	115%	62.46	113%		
1933	21.70	76%	34.00	62%		
1934	18.39	64%	36.75	67%		
1935	27.00	94%	50.16	91%		

Sources: see Tables 3-1 through 3-3. Also, DWR microfiche.  
Pre-1959 Lockheed water year is July to June.  
Santa Cruz record affected by one or more station-location changes.

WYs 1936-2007										
Water Year	Santa Cruz		Lockheed		Ben Lomond 4			(yrs)		
	in/yr	Percent of Avg	in/yr	Percent of Avg	in/yr	Percent of Avg				
1936	32.69	114%	57.27	104%						
1937	34.05	119%	54.04	98%						
1938	42.82	149%	81.86	148%						
1939	21.22	74%	28.22	51%						
1940	43.79	153%	80.77	147%						
1941	61.29	214%	98.02	178%						
1942	42.29	147%	73.93	134%						
1943	39.50	138%	55.74	101%						
1944	27.39	95%	41.34	75%						
1945	33.19	116%	52.81	96%						
1946	30.26	105%	40.26	73%						
1947	19.06	66%	34.60	63%						
1948	24.61	86%	39.75	72%						
1949	30.04	105%	44.92	81%						
1950	31.40	109%	44.58	81%						
1951	38.35	134%	67.93	123%						
1952	44.58	155%	87.52	159%						
1953	24.41	85%	56.85	103%						
1954	23.84	83%	45.82	83%						
1955	23.88	83%	47.29	86%						
1956	39.67	138%	72.00	131%						
1957	22.19	77%	42.05	76%						
1958	50.09	175%	87.46	159%						
1959	24.77	86%	50.00	91%						
1960	21.43	75%	38.00	69%						
1961	17.78	62%	39.00	71%						
1962	27.47	96%	55.00	100%						
1963	33.74	118%	78.00	141%						
1964	19.03	66%	43.00	78%						
1965	30.64	107%	74.00	134%						
1966	20.48	71%	44.00	80%						
1967	40.00	139%	87.00	158%						
1968	21.46	75%	47.29	86%						
1969	44.94	157%	106.32	193%						
1970	30.18	105%	68.47	124%						
1971	27.24	95%	52.45	95%						
1972	19.08	67%	38.00	69%						
1973	43.67	152%	76.75	139%						
1974	41.96	146%	89.40	162%	57.57	118%				
1975	24.29	85%	47.47	86%	41.95	86%				
1976	15.37	54%	30.80	56%	21.60	44%	57%			
1977	14.81	52%	24.38	44%	19.97	41%				
1978	37.59	131%	78.26	142%	70.71	144%				
1979	29.15	102%	45.45	82%	42.69	87%				
1980	37.14	129%	62.58	114%	61.44	125%				
1981	21.74	76%	36.28	66%	33.02	67%				
1982	48.14	168%	101.68	184%	80.49	164%	121%			
1983	53.93	188%	105.63	192%	95.65	195%				
1984	24.01	84%	54.13	98%	40.25	82%				
1985	29.68	103%	49.33	89%	40.68	83%				
1986	40.99	143%	75.44	137%	67.20	137%				
1987	15.85	55%	33.98	62%	26.86	55%				
1988	18.73	65%	39.43	72%	30.31	62%				
1989	24.20	84%	46.94	85%	34.29	70%				
1990	16.76	58%	33.04	60%	24.30	50%	71%			
1991	20.36	71%	37.41	68%	32.00	65%				
1992	27.51	96%	50.56	92%	41.11	84%				
1993	36.69	128%	62.47	113%	57.70	118%				
1994	22.71	79%	36.65	66%	33.09	68%				
1995	43.01	150%	85.04	154%	69.07	141%				
1996	31.49	110%	64.28	117%	61.14	125%				
1997	36.60	128%	67.50	122%	58.70	120%				
1998	59.74	208%	100.92	183%	82.80	169%	127%			
1999	33.65	117%	64.74	117%	46.31	95%				
2000	36.39	127%	74.75	136%	56.24	115%				
2001	25.45	89%	43.6	79%	37.22	76%				
2002	28.79	100%	55.22	100%	47.32	97%				
2003	29.14	102%	53.4	97%	49.01	100%				
2004	25.34	88%	46.6	85%	43.86	90%				
2005	43.63	152%	70.58	128%	66.86	137%				
2006	42.50	148%	80.38	146%	74.62	152%	144%			
2007	17.20	60%			29.03	59%	69%			
2008	25.03	87%			38.81	79%				
No.	141	21	118	19	35	7				
Avg	28.7	100%	101%	55.1	100%	102%	49.0	100%	97%	7
Min	10.2	36%	60%	20.2	37%	48%	20.0	41%	57%	2
Max	61.3	214%	112%	124.3	225%	128%	95.7	195%	144%	22

**Table 3-5**  
**Periods of Above and Below Average Annual**  
**Rainfall, Selected Stations, WYs 1868-2006**

WY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total	Percent of Avg.
1981	0.05	0.04	6.00	13.68	2.65	6.45	0.05	0.00	0.00	0.00	0.00	0.08	29.00	59%
1982	3.35	12.69	4.83	23.20	0.00	9.15	2.46	0.00	0.44	0.00	0.00	1.31	57.43	116%
1983	4.55	14.11	12.55	17.57	21.40	32.10	9.60	1.20	0.00	0.00	0.24	0.72	114.04	231%
1984	0.00	23.06	18.70	0.70	4.10	3.70	1.10	0.20	0.40	0.00	0.00	0.00	51.96	105%
1985	0.00	12.30	3.80	1.20	5.00	8.00	0.50	0.10	0.20	0.10	0.00	0.30	31.50	64%
1986	1.10	5.90	5.00	10.00	20.80	10.50	0.60	0.20	0.00	0.04	0.00	1.10	55.24	112%
1987	0.00	0.00	1.80	4.50	7.00	5.00	0.40	0.10	0.00	0.00	0.00	0.00	18.80	38%
1988	1.20	2.20	11.40	5.10	0.50	0.10	3.50	0.80	0.00	0.00	0.00	0.00	24.80	50%
1989	0.10	4.60	5.40	2.50	1.70	7.80	1.00	0.00	0.00	0.00	0.00	0.60	23.70	48%
1990	2.70	1.60	0.00	4.00	5.87	2.18	0.52	5.56	0.00	0.00	0.13	0.20	22.76	46%
1991	0.45	0.62	2.83	0.67	6.23	24.17	0.98	0.19	0.39	0.06	0.05	0.03	36.67	74%
1992	3.88	2.30	8.29	3.78	19.04	7.15	0.72	0.00	0.85	0.00	0.00	0.00	46.01	93%
1993	4.39	0.41	15.47	24.72	14.52	3.30	1.77	1.52	0.75	0.00	0.00	0.00	66.85	135%
1994	0.72	4.33	6.99	4.21	11.51	0.99	2.81	1.79	0.00	0.00	0.00	0.00	33.35	67%
1995	1.12	12.81	5.09	30.80	0.77	21.52	2.87	4.06	1.02	0.00	0.00	0.00	80.06	162%
1996	0.00	0.27	13.60	18.75	18.25	5.49	3.82	4.96	0.00	0.00	0.00	0.00	65.14	132%
1997	2.12	9.48	23.60	23.37	0.42	1.47	0.78	0.29	0.28	0.00	0.83	0.00	62.64	127%
1998	1.09	12.61	5.48	19.86	33.25	6.13	4.78	6.53	0.09	0.00	0.00	0.00	89.82	182%
1999	1.10	7.45	3.95	11.66	11.45	6.58	4.22	0.10	0.17	0.00	0.06	0.22	46.96	95%
2000	0.46	6.00	0.93	19.92	21.91	3.05	3.65	1.27	0.00	0.00	1.00	0.00	58.19	118%
2001	6.94	1.55	1.47	11.36	12.26	3.85	4.30	0.00	0.12	0.00	0.01	0.07	41.93	85%
2002	1.19	10.87	20.21	3.54	2.92	4.82	0.50	0.85	0.00	0.00	0.00	0.00	44.90	91%
2003	0.01	6.68	22.01	2.25	3.36	2.66	8.95	1.13	0.02	0.00	0.00	0.03	47.10	95%
2004	0.20	5.78	19.23	5.71	11.61	1.80	0.60	0.09	0.00	0.01	0.00	0.19	45.22	91%
2005	7.67	3.40	16.44	12.30	7.43	8.96	3.92	2.68	0.74	0.01	0.02	0.12	63.69	129%
2006	0.24	2.68	22.81	4.72	3.36	15.78	12.16	0.00	0.62	0.00	0.01	0.02	62.40	126%
2007	0.35	3.85	7.15	1.14	11.33	0.55	2.08	0.47	0.00	0.01	0.00	0.42	27.35	55%
2008	2.27	0.47	5.47	22.44	6.23	0.40	0.32	0.00	0.00	0.00	0.00	0.01	37.61	76%
2009	1.98	5.56	5.55											
Avg	1.69	6.00	9.66	10.84	9.46	7.27	2.82	1.22	0.22	0.01	0.08	0.19	49.47	100%
Min	0.00	0.00	0.00	0.67	0.00	0.10	0.05	0.00	0.00	0.00	0.00	0.00	18.80	38%
Max	7.67	23.06	23.60	30.80	33.25	32.10	12.16	6.53	1.02	0.10	1.00	1.31	114.04	231%
Avg % of Yr	9.0%	32%	51%	58%	50%	39%	15.0%	6.5%	1.2%	0.0%	0.4%	1.0%	100%	



**Table 3-6**  
**Monthly Rainfall Record for**  
**SLVWD Office, Boulder Creek,**  
**WYs 1981-2007**  
**(inches)**

WY*	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
North Boulder Creek Echo Booster (1700 Hwy 9)													
2007	0.61	2.98	5.35	1.30	6.94	0.39	1.22	0.33	0.00	0.01	0.00	0.03	19.16
2008	1.53	0.27	3.47	17.60	4.92	0.35	0.21	0.00	0.00	0.00	0.00	0.00	28.35
2009	0.94	3.69	4.12										
Lyon Water Treatment Plant													
2007	0.70	4.00	5.34	1.21	12.28	0.69	1.93	0.51	0.00	0.03	0.00	0.33	27.02
2008	2.26	0.36	3.28	23.42	6.55	0.36	0.37	0.00	0.00	0.00	0.00	0.00	36.60
2009	2.10	5.46	5.92										
Quail Hollow Tank													
2007	0.35	3.47	6.50	1.13	9.73	0.44	2.07	0.46	0.00	0.00	0.00	0.19	24.34
2008	2.09	0.50	2.59	3.57		0.00	0.19	0.03	0.00	0.01	0.00	0.00	8.98
2009													
Olympia Well													
2007	0.35	3.85	7.15	1.14	7.33	0.06	0.00	0.35	0.00	0.00	0.01	0.01	20.25
2008	1.52	0.35	3.97	12.36	3.06	1.45	0.29	0.00	0.00	0.00	0.00	0.05	23.05
2009	1.18	3.41											
Pasatiempo Well 6													
2007	0.31	3.52	6.44	0.73	8.79	0.36	2.13	0.51	0.01	0.02	0.04	0.37	23.23
2008	2.21	0.01	0.20	18.63	6.58	0.41	0.39	0.01	0.00	0.03	0.03	0.09	28.59
2009	1.37	4.65	4.50										

WY 2007 is from October 1, 2006 through September 30, 2007.

**Table 3-7**  
**Monthly Rainfall Record for Other SLVWD Stations, WY 2007 (inches)**

WY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total
2002		10.42					0.94	1.53	0.01	0.00	0.00	0.01	
2003	0.01	5.85	16.52	2.92	4.51	2.65	9.05	1.50	0.09	0.00	0.00	0.09	43.19
2004	0.08	4.80	18.61	6.08	9.93	1.77	1.15	0.05	0.04	0.02	0.02	0.25	42.80
2005	6.97	3.52	14.41	9.33	6.29	1.23	3.38	4.40	1.43	0.00	0.22	0.14	51.32
2006	0.65	4.60	28.88	11.69	6.48	20.97	14.10	0.90	0.11	0.00	0.00	0.01	88.39
2007	0.64	7.03	10.43	1.89	17.55	0.95	2.67	0.90					
2008													
Min	0.01	3.52	10.43	1.89	4.51	0.95	0.94	0.05	0.01	0.00	0.00	0.01	42.80
Max	6.97	10.42	28.88	11.69	17.55	20.97	14.10	4.40	1.43	0.02	0.22	0.25	88.39
Avg	1.67	6.04	17.77	6.38	8.95	5.51	5.22	1.55	0.34	0.00	0.05	0.10	56.43

Elevation: 2,630 ft msl.

Source: [http://cdec.water.ca.gov/snow\\_rain.html](http://cdec.water.ca.gov/snow_rain.html)

**Table 3-8**  
**Monthly Rainfall Record for CDF Ben Lomond Station (BLO), WYs 2002-2007 (inches)**

WY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total	Percent of Avg.
1946										0.00	0.00	0.05		
1947	9.33	1.00	4.35	1.12	4.80	5.34	0.35	0.91	0.68	0.00	0.00	0.00	27.88	65%
1948	0.80	1.10	11.20	2.50	2.59	6.01	8.62	2.12	0.55	0.00	0.00	0.10	35.59	83%
1949	0.10	4.00	5.51	4.47	7.57	12.71	0.00	0.60	0.00	0.00	0.00	1.25	36.21	85%
1950	<i>6.58</i>	<i>23.68</i>	<i>12.87</i>	<i>17.52</i>	<i>15.83</i>	<i>5.53</i>	<i>2.72</i>	<i>1.12</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>85.85</i>	<i>200%</i>
1951	2.35	4.10	20.56	6.63	2.95	3.66	1.89	1.44	0.00	0.00	0.00	0.15	43.73	102%
1952	0.00	4.83	14.38	19.74	4.78	11.35	1.98	0.56	2.02	0.00	0.00	0.00	59.64	139%
1953	0.80	4.82	0.51	9.61	0.00	5.75	5.95	1.54	0.00	0.00	0.42	0.00	29.40	69%
1954	<i>0.00</i>	<i>7.80</i>	<i>9.98</i>	<i>7.27</i>	<i>5.75</i>	<i>8.66</i>	<i>3.30</i>	<i>0.75</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>43.51</i>	<i>102%</i>
1955	<i>0.10</i>	<i>3.42</i>	<i>25.46</i>	<i>8.19</i>	<i>3.14</i>	<i>1.00</i>	<i>5.63</i>	<i>0.80</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.45</i>	<i>48.19</i>	<i>113%</i>
1956	<i>3.18</i>	<i>0.00</i>	<i>1.19</i>	<i>13.61</i>	<i>3.85</i>	<i>0.15</i>	<i>3.25</i>	<i>1.83</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.65</i>	<i>27.71</i>	<i>65%</i>
1957	<i>6.85</i>	<i>1.10</i>	<i>7.15</i>	<i>8.29</i>	<i>11.35</i>	<i>3.68</i>	<i>3.05</i>	<i>7.66</i>	<i>0.15</i>	<i>0.00</i>	<i>0.20</i>	<i>0.50</i>	<i>49.98</i>	<i>117%</i>
1958	0.00	0.25	2.50	10.18	22.17	14.42	9.80	0.70	0.63	0.00	0.25	9.50	70.40	164%
1959	<i>0.00</i>	<i>0.00</i>	<i>0.75</i>	<i>8.05</i>	<i>12.22</i>	<i>0.50</i>	<i>1.10</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>22.62</i>	<i>53%</i>
1960	0.18	7.80	2.91	12.35	11.72	3.33	2.42	0.40	0.00	0.00	0.00	0.15	41.26	96%
1961	0.10	5.93	4.27	5.01	1.95	4.92	1.30	0.75	0.00	0.00	0.23	0.00	24.46	57%
1962	6.99	0.81	5.00	4.60	20.33	6.77	0.35	0.00	0.00	0.00	0.00	0.18	45.03	105%
1963	3.34	9.84	0.34	9.15	8.75	6.88	9.24	1.60	0.00	0.00	0.00	0.18	49.32	115%
1964	2.79	5.66	17.51	5.99	0.15	3.43	0.81	0.46	0.82	0.00	0.00	0.00	37.62	88%
1965	<i>0.08</i>	<i>9.05</i>	<i>7.00</i>	<i>6.15</i>	<i>2.00</i>	<i>3.29</i>	<i>4.83</i>	<i>0.00</i>	<i>0.00</i>	<i>0.32</i>	<i>0.05</i>	<i>0.27</i>	<i>33.04</i>	<i>77%</i>
1966	0.00	9.14	9.03	3.39	4.83	0.40	1.25	0.16	0.15	0.00	0.00	0.00	28.35	66%
1967	0.47	2.22	4.51	17.33	0.70	9.84	9.52	0.24	1.80	0.00	0.40	0.05	47.08	110%
1968	2.27	4.55	12.89	7.10	5.63	6.15	1.05	0.57	0.00	0.00	0.00	0.10	40.31	94%
1969	3.92	2.16	12.89	22.93	16.57	2.36	4.22	0.03	0.02	0.00	0.00	0.00	65.10	152%
1970	1.05	12.69	10.74	17.58	3.48	3.99	1.11	0.02	0.42	0.00	0.11	0.37	51.56	120%
1971	<i>0.02</i>	<i>3.54</i>	<i>9.47</i>	<i>2.85</i>	<i>0.65</i>	<i>4.19</i>	<i>2.25</i>	<i>0.38</i>	<i>0.00</i>	<i>0.25</i>	<i>0.00</i>	<i>1.41</i>	<i>25.01</i>	<i>58%</i>
1972	4.52	13.15	3.75	3.36	2.79	0.42	3.08	0.08	0.29	0.00	0.00	0.29	31.73	74%
1973	3.67	13.18	7.47	12.22	15.21	5.28	0.23	0.04	0.00	3.00	0.00	0.00	60.30	141%
1974	<i>2.36</i>	<i>1.93</i>	<i>5.66</i>	<i>7.63</i>	<i>1.82</i>	<i>10.18</i>	<i>4.16</i>	<i>0.02</i>	<i>0.38</i>	<i>0.12</i>	<i>0.57</i>	<i>0.08</i>	<i>34.91</i>	<i>82%</i>
1975	5.72	0.55	0.98	0.86	10.26	9.72	4.11	0.00	0.07	0.00	1.89	1.68	35.84	84%
1976	0.61	2.90	3.06	0.37	1.74	5.00	3.24	0.00	0.30	0.00	0.00	2.67	19.89	46%
1977	0.53	3.62	8.08	2.66	1.84	2.99	4.88	1.25	0.09	0.00	0.00	1.50	27.44	64%
1978	<i>0.00</i>	<i>5.44</i>	<i>1.27</i>	<i>18.16</i>	<i>8.66</i>	<i>9.26</i>	<i>6.56</i>	<i>0.00</i>	<i>0.00</i>	<i>0.34</i>	<i>0.00</i>	<i>0.00</i>	<i>49.69</i>	<i>116%</i>
1979	<i>5.70</i>	<i>2.99</i>	<i>10.28</i>	<i>11.98</i>	<i>10.71</i>	<i>5.42</i>	<i>2.15</i>	<i>1.03</i>	<i>0.00</i>	<i>0.84</i>	<i>0.00</i>	<i>0.00</i>	<i>51.10</i>	<i>119%</i>
1980	<i>0.03</i>	<i>0.18</i>	<i>4.59</i>	<i>13.45</i>	<i>13.12</i>	<i>2.74</i>	<i>3.19</i>	<i>0.91</i>	<i>0.04</i>	<i>0.00</i>	<i>0.00</i>	<i>0.28</i>	<i>38.53</i>	<i>90%</i>
1981	<i>2.47</i>	<i>12.29</i>	<i>7.88</i>	<i>11.21</i>	<i>3.06</i>	<i>9.72</i>	<i>0.47</i>	<i>0.64</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>0.00</i>	<i>47.74</i>	<i>111%</i>
1982	0.14	11.20	5.90	28.80	6.88	8.26	8.40	0.03	0.00	0.00	0.04	1.28	70.93	166%
1983	5.35	10.50	7.74	13.90	18.00	19.90	7.80	0.98	0.00	0.00	0.17	1.91	86.25	201%
1984	1.70	12.70	12.90	0.54	2.49	2.62	1.13	0.02	0.18	0.01	0.00	0.25	34.54	81%
1985	2.80	13.80	2.95	1.72	4.20	7.92	0.73	0.11	0.15	0.09	0.02	0.54	35.03	82%
1986	1.12	7.14	2.62	7.38	22.40	15.00	0.48	0.83	0.00	0.00	0.00	1.30	58.27	136%
1987	0.03	0.05	2.47	4.51	9.06	6.31	0.70	0.00	0.02	0.00	0.00	0.00	23.15	54%
1988	1.19	2.30	10.70	4.58	0.68	0.00	3.13	1.07	0.16	0.00	0.00	0.00	23.81	56%
1989	0.19	5.90	8.89	2.06	1.39	10.60	0.67	0.08	0.03	0.00	0.03	0.83	30.67	72%
1990	3.53	1.58	0.01	3.42	3.69	2.13	0.16	5.79	0.00	0.00	0.12	0.15	20.58	48%
1991	0.50	0.24	1.65	0.61	5.39	17.19	0.51	0.06	0.40	0.00	0.02	0.07	26.64	62%
1992	2.37	1.46	5.42	3.03	15.30	4.65	0.45	0.00	0.82	0.00	0.05	0.00	33.55	78%
1993	3.41	0.20	11.54	18.51	10.22	3.17	1.37	0.96	0.68	0.00	0.00	0.00	50.06	117%
1994	0.73	2.74	5.52	3.51	9.72	0.68	2.75	2.10	0.01	0.00	0.00	0.05	27.81	65%
1995	1.79	8.29	4.78	23.88	0.65	13.62	3.79	0.89	1.04	0.01	0.00	0.00	58.74	137%
1996	0.00	0.32	10.03	13.52	11.35	5.14	2.38	4.31	0.03	0.00	0.00	0.00	47.08	110%
1997	2.89	6.95	22.43	12.33	0.17	1.50	0.58	0.16	0.12	0.00	0.54	0.00	47.67	111%
1998	0.68	10.12	4.06	14.21	21.81	6.17	2.85	3.65	0.01	0.00	0.01	0.17	63.74	149%
1999	1.02	9.11	1.85	9.25	11.08	5.22	2.58	0.03	0.36	0.00	0.02	0.14	40.66	95%
2000	0.35	5.69	0.53	18.02	17.57	2.77	2.69	1.01	0.18	0.00	0.20	0.40	49.41	115%
2001	5.14	1.38	0.94	8.68	10.65	4.05	2.67	0.00	0.07	0.00	0.00	0.16	33.74	79%
2002	1.13	9.93	16.45	4.97	2.69	4.66	0.52	0.90	0.00	0.00	0.05	0.00	41.30	96%
2003	0.00	5.80	21.40	2.77	2.95	2.54	5.75	1.09	0.16	0.00	0.00	0.00	42.46	99%
2004	0.19	3.93	17.55	4.44	9.69	0.35	0.65	0.07	0.00	0.00	0.00	0.00	36.87	86%
2005	7.24	3.25	14.39	8.30	7.20	10.01	3.79	2.13	0.94	0.02	0.00	0.08	57.35	134%
2006	0.19	2.84	21.73	6.55	5.26	15.29	10.44	1.01	0.01	0.00	0.01	0.00	63.33	148%
Avg	2.01	5.39	8.01	8.88	7.56	6.08	3.08	0.93	0.23	0.08	0.09	0.48	42.83	100%
Min	0.00	0.00	0.01	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.89	46%
Max	9.33	23.68	25.46	28.80	22.40	19.90	10.44	7.66	2.02	3.00	1.89	9.50	86.25	201%
% of Avg WY	4.7%	13%	19%	21%	18%	14%	7.2%	2.2%	0.5%	0.2%	0.2%	1.1%	100%	

Shaded italics indicate questionable values relative to records presented in preceding tables.

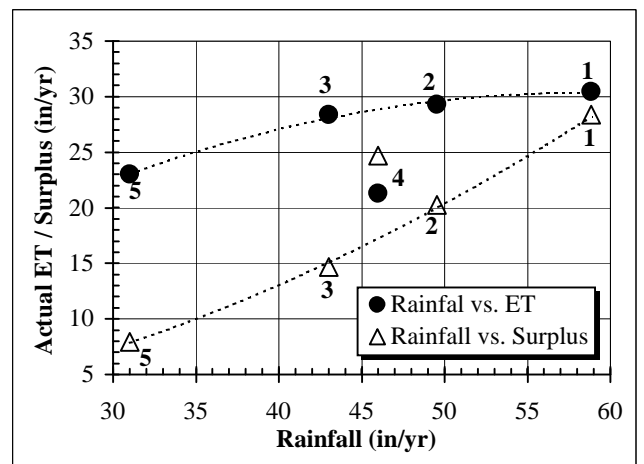
Source: ETIC, 2007.

**Table 3-9**  
**Monthly Rainfall Recrd for El Pueblo Yard SVWD Station, WYs 1946-2006 (inches)**

Water Balance Parameter		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
<b>1 Ben Lomond Mountain</b>		(inches)												
	a. Rainfall -- Lockheed (Table 3-3)	13.3	10.0	8.2	4.3	1.4	0.3	0.1	0.1	0.8	2.9	7.6	9.9	58.8
	b. ETo Avg Zones 2 & 3 (Fig. 3-10)	1.6	2.0	3.4	4.4	5.0	5.4	5.3	5.0	4.1	3.1	2.1	1.6	42.7
	c. Rainfall minus Potential ET	11.7	8.1	4.8	-0.1	-3.6	-5.1	-5.2	-4.9	-3.2	-0.2	5.5	8.3	16.2
	d. Change in Soil Moisture	0.0	0.0	0.0	-0.1	-3.6	-5.1	-1.2	0.0	0.0	0.0	5.5	4.5	
	e. Remaining Soil Moisture (Table 3-11)	10.0	10.0	10.0	9.9	6.4	1.2	0.0	0.0	0.0	0.0	5.5	10.0	
	f. Actual ET	1.6	2.0	3.4	4.4	5.0	5.4	1.3	0.1	0.8	2.9	2.1	1.6	<b>30.5</b>
	g. Rainfall Surplus (Runoff & Recharge)	11.7	8.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	<b>28.4</b>
<b>2 Ben Lomond</b>	a. Rainfall -- Ben Lomond 4 (Table 3-2)	9.8	9.8	7.4	3.1	1.1	0.2	0.1	0.1	0.4	2.1	6.1	9.2	49.5
	b. ETo Zone 3 (Fig. 3-10)	1.9	2.2	3.7	4.8	5.3	5.7	5.6	5.3	4.2	3.4	2.4	1.9	46.3
	c. Rainfall minus Potential ET	8.0	7.5	3.7	-1.7	-4.2	-5.5	-5.5	-5.1	-3.8	-1.3	3.7	7.3	3.2
	d. Change in Soil Moisture	0.0	0.0	0.0	-1.7	-4.2	-4.1	0.0	0.0	0.0	0.0	3.7	6.3	
	e. Remaining Soil Moisture (Table 3-11)	10.0	10.0	10.0	8.3	4.1	0.0	0.0	0.0	0.0	0.0	3.7	10.0	
	f. Actual ET	1.9	2.2	3.7	4.8	5.3	4.4	0.1	0.1	0.4	2.1	2.4	1.9	<b>29.3</b>
	g. Rainfall Surplus (Runoff & Recharge)	8.0	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	<b>20.2</b>
	<b>3 Loch Lomond watershed</b>	a. Rainfall -- proportion of BL4	8.5	8.5	6.5	2.7	0.9	0.2	0.1	0.1	0.4	1.9	5.3	8.0
b. ETo Zone 3 (Fig. 3-10)		1.9	2.2	3.7	4.8	5.3	5.7	5.6	5.3	4.2	3.4	2.4	1.9	46.3
c. Rainfall minus Potential ET		6.7	6.2	2.7	-2.1	-4.3	-5.5	-5.5	-5.2	-3.8	-1.5	2.9	6.1	-3.3
d. Change in Soil Moisture		1.0	0.0	0.0	-2.1	-4.3	-3.6	0.0	0.0	0.0	0.0	2.9	6.1	
e. Remaining Soil Moisture (Table 3-11)		10.0	10.0	10.0	7.9	3.6	0.0	0.0	0.0	0.0	0.0	2.9	9.0	
f. Actual ET		1.9	2.2	3.7	4.8	5.3	3.8	0.1	0.1	0.4	1.9	2.4	1.9	<b>28.4</b>
g. Rainfall Surplus (Runoff & Recharge)		5.7	6.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<b>14.7</b>
<b>4 Quail Hollow, Zayante Soils</b>		a. Rainfall -- proportion of BL4	9.1	9.1	6.9	2.9	1.0	0.2	0.1	0.1	0.4	2.0	5.6	8.5
	b. ETo Zone 3 (Fig. 3-10)	1.9	2.2	3.7	4.8	5.3	5.7	5.6	5.3	4.2	3.4	2.4	1.9	46.3
	c. Rainfall minus Potential ET	7.3	6.8	3.2	-1.9	-4.3	-5.5	-5.5	-5.2	-3.8	-1.4	3.2	6.7	-0.3
	d. Change in Soil Moisture	0.0	0.0	0.0	-1.9	-0.6	0.0	0.0	0.0	0.0	0.0	2.5	0.0	
	e. Remaining Soil Moisture (Table 3-11)	2.5	2.5	2.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	
	f. Actual ET	1.9	2.2	3.7	4.8	1.6	0.2	0.1	0.1	0.4	2.0	2.4	1.9	<b>21.3</b>
	g. Rainfall Surplus (Runoff & Recharge)	7.3	6.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	6.7	<b>24.7</b>
	<b>5 Santa Cruz</b>	a. Rainfall -- Santa Cruz (Table 3-1)	6.5	5.7	4.4	2.2	0.8	0.2	0.1	0.1	0.3	1.4	3.6	5.9
b. ETo Zone 2 (Fig. 3-10)		1.2	1.7	3.1	3.9	4.7	5.1	5.0	4.7	3.9	2.8	1.8	1.2	39.0
c. Rainfall minus Potential ET		5.3	4.0	1.3	-1.7	-3.9	-4.9	-4.9	-4.6	-3.6	-1.4	1.8	4.6	-8.0
d. Change in Soil Moisture		2.6	0.0	0.0	-1.7	-3.9	-3.4	0.0	0.0	0.0	0.0	1.8	4.6	
e. Remaining Soil Moisture (Table 3-11)		9.0	9.0	9.0	7.3	3.4	0.0	0.0	0.0	0.0	0.0	1.8	6.4	
f. Actual ET		1.2	1.7	3.1	3.9	4.7	3.6	0.1	0.1	0.3	1.4	1.8	1.2	<b>23.0</b>
g. Rainfall Surplus (Runoff & Recharge)		2.7	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<b>7.9</b>

**Row Notes:**

- b. ETo Zones: 1. Coastal fog belt; 2. Coastal mixed fog; 3. Coastal valleys (see Figure 3-10).
- c. Assumes native vegetation has a crop coefficient of 1.0, i.e., potential ET equals ETo.
- d. Assumes available soil moisture depleted at rate needed to satisfy ET; precipitation in excess of ET replenishes soil moisture up to capacity.
- e. Soil water storage capacities selected from Table 3-11; e.g., 10-inch capacity assumes sandy loam with high storage capacity.
- f. Equals ETo satisfied by rainfall and/or by changes in soil moisture.
- g. Rainfall not used by ET or soil moisture replenishment.



**Table 3-10**  
**Estimated Average Monthly Soil-Water Budgets**

Soil Name	Available Water Capacity*		Soil Description
	Summed from Table J1a	Stated in text	
	(inches)		
<b>Hill and Mountain Slopes, Ridges, and Drainageways</b>			
Aptos loam	3.8 - 4.8	3.5 - 5.0	Moderately deep, well-drained soil on hills and mountains. Formed in material weathered from sandstone, siltstone, or shale.
Ben Lomond sandy loam	4.3 - 6.3	4.0 - 8.5	Deep, well-drained soil on ridgetops, on short side slopes, and in rolling areas in Santa Cruz and Ben Lomond mountains. Formed in residuum derived from sandstone or granitic rock. Slopes Convex.
Ben Lomond-Catelli-Sur complex			On mountains. Mostly extends from ridgetops to drainageways, but also mountainsides. Slopes long and complex.
Ben Lomond-Felton complex			Concave areas near drainageways.
Catelli sandy loam	3.7 - 4.8	2.0 - 5.0	Moderately deep, well drained, on mountains.
Felton sandy loam	8.4 - 10.3	5.5 - 10.0	Deep, well drained soil on ridgetops and in rolling areas on mountains. Short slopes. Formed in residuum derived from sandstone, shale, siltstone, or schist. Areas generally concave.
Lompico loam	5.5 - 6.6	3.0 - 7.0	Moderately deep, well drained, on mountains.
Lompico-Felton complex			On foot slopes and wide ridges. Slopes are dominantly complex.
Maymen Variant sandy loam	1.7 - 2.3	1.0 - 2.5	Shallow, somewhat excessively-drained soil on mountains. Formed in material weathered from granite or schist.
Nisene laom	8.1 - 9.9	5.5 - 10.5	Deep, well drained, on mountains.
Nisene-Aptos complex			On foot slopes and wide ridges in Santa Cruz Mountains. Slopes complex.
Sur stoney sandy loam	2.3 - 3.2	1.0 - 3.5	Moderately deep, somewhat excessively drained soils on mountains.
Sur-Catelli complex			On mountainsides from ridges to drainageways. Slopes complex.
Zayante coarse sand	2.4 - 5.4	2.5 - 5.0	Very deep, somewhat excessively drained soil on hills and mountains. Formed in residuum weathered from consolidated marine sediment or sandstone (e.g., Santa Margarita Sandstone).
Average	4.2 - 5.6	3.0 - 6.1	
<b>Mountain and Hill Ridges</b>			
Lompico Variant loam	3.9 - 4.5	3.0 - 6.5	Moderately deep, well-drained soil on terraces and mountains. Mainly on ridges and in small, bench-like areas. Formed in residuum derived from sandstone, shale, or mudstone. Slopes slightly convex.
Maymen stoney loam	1.4 - 1.8	1.0 - 2.5	Shallow, somewhat excessively-drained soil mainly on ridgetops. Formed in residuum derived from shale, sandstone, or granitic rock. Slopes mostly convex.
Average	2.6 - 3.1	2.0 - 4.5	
<b>Hills and Terraces</b>			
Elkhorn-Pfeiffer complex			On dissected marine terraces and hills.
Elkhorn sandy loam	8.5 - 10.1	8.5 - 10.0	Very deep, well-drained soil on old alluvial fans and plains and on marine terraces.
Pfeiffer gravelly sandy loam	4.6 - 6.6	3.0 - 6.0	Deep, well-drained soil on hills and dissected terraces. Formed in material weathered from granitic rock or sandstone or in marine sediment.
Average	6.6 - 8.4	5.8 - 8.0	
<b>Alluvial and Eolian</b>			
Baywood loamy sand	3.8 - 5.7	3.5 - 5.0	Very deep, somewhat excessively drained soil in narrow valleys. Formed in eolian deposits.
Danville laom	8.1 - 10.9	7.5 - 10.0	Very deep, well-drained soil on alluvial fans and in narrow valleys. Formed in alluvium.
Elder sandy loam	6.0 - 9.0	6.0 - 9.0	Very deep, well-drained soil on alluvial fans and plains and in narrow valleys. Formed in mixed alluvium.
Fluvaquentic	3.0 - 12.6		Deep, moderately well-drained soils formed in alluvium.
Soquel loam	9.0 - 11.0	8.5 - 10.5	Very deep, moderately well-drained soil on plains and in narrow valleys. Formed in alluvium.
Watsonville loam	3.9 - 5.3	4.0 - 5.0	Very deep, somewhat poorly drained soil on coastal terraces. Formed in alluvium.
Average	5.6 - 9.1	5.9 - 7.9	

\*Adopted from *Soil Survey of Santa Cruz County, California* by Bowman, R.H., and Estrada, D.C., U.S. Department of Agriculture, Soil Conservation Service in cooperation with University of California, Agricultural Experiment Station, 1980.

**Table 3-11**  
**Water Storage Capacities of Study Area Soils**

Station Name	Drain- age Area <sup>a</sup> (sq. mi.)	Est. Water- shed Avg. Rainfall (in/yr)	Period of Record (through WY 1996)				Adjusted <sup>b</sup>		ET <sup>c</sup>
			Whole Water Years (WY's)	No. of Whole WY's	Average Stream- flow (ac-ft/yr)	SLRBT % of Avg. Discharge for Period	Average Stream- flow (ac-ft/yr)	Unit Stream- flow (in/yr)	
<b>Western Slope San Mateo and Northern Santa Cruz County</b>									
Pilarcitos Ck at Half Moon Bay <sup>d</sup>	27.1	32.9	1967 - 1996	30	10,400	100.6%	11,400	7.9	25
Purisima Ck near Half Moon Bay	4.75	37.0	1959 - 1969	11	2,410	90.1%	2,680	10.6	26
San Gregorio Ck at San Gregorio	50.0	35.4	1970 - 1994	25	25,900	90.0%	28,800	10.8	25
Pescadero Ck near Pescadero	45.9	39.9	1952 - 1996	45	30,300	98.5%	30,800	12.6	27
Butano Ck near Pescadero	18.5	41.3	1963 - 1974	12	16,000	112.2%	14,300	14.5	27
Scott Ck above Little Ck	25.2	47.1	1940 - 1941	2	57,800	225.9%	25,600	19.0	28
Scott Ck near Davenport	27.3	46.6	1959 - 1973	15	22,200	92.7%	23,900	16.4	30
San Vicente Ck near Davenport	5.93	50.9	1970 - 1985	16	6,780	108.5%	6,250	19.7	31
Laguna Ck near Davenport	3.36	53.3	1970 - 1976	7	3,620	92.5%	3,920	21.9	31
Majors Ck near Santa Cruz	3.84	44.6	1970 - 1976	7	3,060	92.5%	3,310	16.2	28
<b>San Lorenzo River Watershed</b>									
San Lorenzo R at Waterman Switch	6.22	44.6	1969 - 1992	24	4,540	96.3%	4,710	14.2	30
Boulder Ck at Boulder Creek	11.4	52.8	1977 - 1992	16	11,600	90.8%	12,800	21.1	32
Bear Ck at Boulder Creek	15.9	44.6	1978 - 1992	15	11,600	96.1%	12,100	14.2	30
Newell Ck at Ben Lomond	8.96	42.9	1958 - 1960	3	7,060	103.8%	6,800	14.2	29
Zayante Ck at Zayante	11.1	43.8	1958 - 1992	35	8,000	94.3%	8,480	14.3	29
Bean Ck near Scotts Valley	9.00	43.7	1990 - 1996	7	7,200	83.5%	8,600	17.9	26
San Lorenzo R at Big Trees <sup>e</sup> (SLRBT)	106.6	46.0	1937 - 1996	60	94,900	100.0%	96,900	17.1	29
Carbonera Ck at Scotts Valley	3.62	43.4	1986 - 1996	11	3,010	76.4%	3,950	20.4	23
Branciforte Ck at Santa Cruz	17.2	40.9	1953 - 1968	16	12,100	89.5%	13,500	14.7	26
<b>Western Slope Southern Santa Cruz County</b>									
W Br Soquel Ck near Soquel	12.2	44.1	1959 - 1972	14	8,980	86.7%	10,350	15.9	28
Soquel Ck near Soquel	32.0	43.3	1969 - 1972	4	26,100	108.7%	24,000	14.1	29
Soquel Ck at Soquel	40.2	41.4	1952 - 1996	45	32,400	98.5%	32,900	15.3	26
Aptos Ck near Aptos	10.2	38.6	1972 - 1985	14	7,410	109.9%	6,740	12.4	26
Aptos Ck at Aptos	12.0	37.5	1959 - 1972	14	5,520	86.7%	6,360	10.0	27
Corralitos Ck near Corralitos <sup>d</sup>	10.7	40.0	1958 - 1972	15	6,210	95.1%	7,530	13.2	27
Corralitos Ck at Freedom <sup>b</sup>	27.6	34.9	1957 - 1996	40	10,900	95.6%	12,400	8.4	27
<b>Eastern Slope Santa Clara County</b>									
San Francisquito Ck at Stanford U. <sup>d</sup>	36.7	32.6	1951 - 1996	46	14,900	99.3%	15,800	8.1	25
Saratoga Ck at Saratoga <sup>d</sup>	8.77	45.0	1934 - 1996	63	6,520	100.0%	7,520	16.1	29
Los Gatos Ck at Los Gatos <sup>d</sup>	39.6	43.6	1954 - 1971	18	25,600	97.1%	33,900	16.1	28
Guadalupe Ck at Guadalupe	12.8	38.1	1931 - 1959	29	8,980	108.6%	8,270	12.1	26
Uvas Ck above Uvas Res	21.4	40.6	1962 - 1982	21	20,500	103.6%	19,800	17.4	23
Bodfish Ck near Gilroy	10.2	29.1	1960 - 1982	23	2,770	97.0%	2,860	5.3	24
Pescadero Ck near Chittenden	10.6	26.8	1971 - 1981	11	2,200	85.3%	2,580	4.5	22

<sup>a</sup>As shown in Figure 3-11.

<sup>b</sup>Adjusted to 1937-1996 average conditions based on adjusted record for San Lorenzo River at Big Trees (Table 3-13).

<sup>c</sup>Estimated as watershed average rainfall minus adjusted unit streamflow.

<sup>d</sup>Adjusted for major diversions as reported in diversion records by USGS.

<sup>e</sup>Adjusted for Loch Lomond and Felton diversion as indicated in Table 3-13.

**Table 3-12**  
**Estimated Average Rainfall and Unit Streamflow of USGS Gaged Watersheds**  
(from Geomatrix, 1999)

WY	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total	Adjusted Total*	% of Avg.
	(ac-ft)														% of Avg.
1937	738	893	1,686	4,157	27,769	33,818	9,521	4,026	2,339	1,494	1,059	962	88,462		90%
1938	1,093	1,714	16,088	14,420	68,394	52,126	14,666	6,807	3,626	2,263	1,543	1,269	184,008		187%
1939	1,492	1,501	1,722	2,696	4,439	5,119	1,912	1,410	844	645	589	626	22,994		23%
1940	714	762	938	29,147	69,164	40,360	18,428	5,667	3,227	2,037	1,367	1,291	173,101		176%
1941	1,295	1,418	17,262	45,794	74,009	43,952	56,045	11,409	5,574	3,515	2,569	2,047	264,888		269%
1942	1,928	2,210	14,846	42,740	35,355	16,336	21,834	9,763	5,353	3,366	2,374	1,987	158,092		160%
1943	1,916	4,009	5,179	37,662	15,683	30,032	9,832	5,443	3,491	2,424	1,708	1,392	118,770		120%
1944	1,609	1,698	2,063	3,546	12,389	14,283	4,104	3,170	2,073	1,488	1,164	1,041	48,627		49%
1945	1,297	3,540	4,590	3,554	40,042	15,209	7,902	4,403	2,654	1,716	1,258	1,079	87,245		89%
1946	1,722	2,342	22,473	10,495	5,653	5,760	6,343	3,265	2,041	1,420	1,061	952	63,527		64%
1947	992	3,971	2,588	1,954	4,778	5,986	3,515	1,781	1,345	938	720	613	29,181		30%
1948	1,743	1,345	2,063	1,734	1,829	4,044	9,096	4,941	2,067	1,297	936	748	31,843		32%
1949	902	906	3,420	2,705	5,758	34,005	5,756	2,957	1,654	1,194	1,006	877	61,140		62%
1950	920	1,390	1,978	12,635	23,113	4,929	3,900	2,531	1,664	1,121	889	839	55,908		57%
1951	1,339	27,426	41,439	17,304	10,897	15,903	5,693	5,032	2,575	1,819	1,377	1,131	131,933		134%
1952	1,416	1,956	30,061	76,344	23,228	46,520	11,679	5,601	3,600	2,781	1,898	1,515	206,600		210%
1953	1,464	2,116	20,218	30,843	6,367	9,390	6,893	5,347	3,049	1,980	1,537	1,242	90,444		92%
1954	1,291	2,229	1,662	6,143	10,665	13,837	9,431	3,981	2,251	1,462	1,109	1,002	55,063		56%
1955	1,020	2,811	12,746	11,278	5,379	4,310	5,504	3,767	1,966	1,305	982	883	51,949		53%
1956	952	1,630	81,114	48,462	23,937	11,621	6,549	5,062	3,146	2,251	1,561	1,246	187,531		190%
1957	1,662	1,648	1,698	3,499	9,003	6,615	3,654	7,672	3,037	1,664	1,353	1,012	42,516		43%
1958	1,747	1,626	5,361	10,445	63,943	42,732	59,790	8,513	4,500	3,080	2,069	1,559	205,366		208%
1959	1,456	1,448	1,646	16,554	21,596	6,240	3,453	2,340	1,557	1,214	998	3,100	61,603		62%
1960	1,541	1,208	1,301	4,588	14,838	3,548	2,588	1,950	1,182	829	664	647	34,885		35%
1961	811	2,005	2,376	1,985	2,517	3,289	1,767	1,309	966	591	522	526	18,665	20,395	21%
1962	603	1,150	2,745	2,102	30,902	17,478	3,775	2,122	1,375	1,016	781	819	64,868	69,033	70%
1963	10,822	1,749	4,072	23,774	33,269	14,335	28,564	9,148	4,219	2,535	2,142	1,521	136,149	142,150	144%
1964	1,726	7,029	2,832	8,936	3,636	3,374	2,186	1,682	1,353	916	688	795	35,153	37,101	38%
1965	1,018	3,142	29,272	36,746	8,081	5,445	18,438	5,288	3,007	1,946	1,377	1,099	114,857	119,730	121%
1966	1,101	4,185	5,925	8,598	11,625	4,483	2,541	1,728	1,311	964	758	736	43,954	46,226	47%
1967	701	3,540	15,346	43,597	14,995	30,058	33,437	10,499	5,068	2,906	2,134	1,603	163,883	169,063	171%
1968	1,464	1,547	3,035	12,250	11,691	10,941	4,663	2,485	1,476	1,117	887	811	52,366	54,990	56%
1969	1,109	1,583	6,004	67,373	69,933	28,399	12,258	5,464	3,483	2,463	1,684	1,416	201,169	205,115	208%
1970	1,997	1,843	11,300	49,537	14,701	23,272	6,220	4,013	2,565	1,547	1,450	1,154	119,599	124,215	126%
1971	1,202	7,597	21,596	9,870	4,203	7,160	4,481	2,813	1,825	1,420	938	839	63,943	67,077	68%
1972	924	1,507	6,460	3,364	4,046	1,827	1,964	1,222	805	640	561	648	23,969	25,262	26%
1973	1,987	13,412	3,314	37,444	63,021	27,755	7,010	3,814	2,192	1,545	1,137	1,006	163,636	170,215	173%
1974	1,692	11,000	15,586	23,609	7,014	36,478	27,304	6,145	3,293	2,767	1,894	1,388	138,171	143,870	146%
1975	1,668	2,206	5,215	4,241	17,726	27,191	8,660	4,046	2,489	1,712	1,373	1,172	77,698	82,020	83%
1976	1,920	1,440	1,422	1,260	1,275	1,732	1,468	992	701	551	657	592	14,009	14,725	15%
1977	708	865	1,006	1,392	924	1,315	734	716	558	410	400	541	9,568	10,225	10%
1978	508	1,330	4,307	52,635	29,774	28,070	16,296	6,482	3,070	2,049	1,301	1,246	147,068	153,675	156%
1979	914	1,605	1,498	8,166	19,829	13,412	7,256	3,275	1,795	1,242	1,263	859	61,113	63,753	65%
1980	1,622	1,515	8,642	35,127	53,336	15,755	7,908	4,213	2,759	2,190	1,480	1,293	135,840	139,910	142%
1981	1,099	1,196	2,402	7,860	3,499	11,954	4,013	1,950	1,025	795	680	668	37,141	38,860	39%
1982	980	6,071	10,356	71,774	28,996	35,635	54,791	8,166	3,673	2,644	2,051	1,549	226,687	230,849	234%
1983	1,785	7,501	19,037	40,364	60,811	91,200	27,237	19,809	6,694	4,048	2,703	2,005	283,196	288,194	292%
1984	1,995	12,184	29,669	11,332	7,252	5,948	3,699	2,670	1,989	1,527	1,206	904	80,376	83,935	85%
1985	1,583	6,801	5,526	2,820	6,662	9,064	4,504	2,384	1,573	1,087	900	885	43,791	45,889	47%
1986	905	2,061	3,195	7,363	85,105	50,416	8,951	4,439	2,523	1,777	1,339	1,365	169,439	175,439	178%
1987	1,210	1,208	1,503	2,097	6,474	5,286	1,668	1,303	1,059	809	662	650	23,930	25,236	26%
1988	770	1,109	4,913	5,066	1,609	1,377	1,652	1,228	783	645	583	495	20,229	21,390	22%
1989	570	1,353	3,160	1,847	1,357	9,671	2,108	1,345	904	633	754	716	24,417	25,745	26%
1990	1,840	2,450	1,763	2,563	2,739	1,749	1,279	1,801	1,077	839	702	586	19,389	21,388	22%
1991	620	676	906	849	1,160	19,549	2,596	1,345	918	655	519	493	30,287	32,286	33%
1992	936	859	2,444	2,233	25,807	8,882	2,545	1,672	1,073	803	617	520	48,391	50,674	51%
1993	1,104	700	5,472	44,392	30,718	13,501	5,778	3,418	2,323	1,533	1,188	932	111,060	115,843	118%
1994	1,021	1,380	3,316	2,311	10,504	2,735	2,178	1,859	1,039	775	662	676	28,458	29,944	30%
1995	827	2,822	2,789	58,508	11,425	65,272	13,503	11,944	4,691	2,820	1,837	1,390	177,830	184,828	187%
1996	1,212	1,168	5,619	19,214	48,395	24,714	8,678	7,747	3,848	2,382	1,620	1,361	125,958	131,336	133%
1997	1,474	3,971	30,972	72,089	14,773	6,946	4,042	2,698	2,001	1,484	1,261	1,006	142,717	148,764	151%
1998	1,063	3,844	5,197	26,410	102,896	21,548	16,155	11,008	7,815	4,026	2,499	1,835	203,234	212,758	216%
1999	1,770	3,190	3,330	11,010	25,250	15,380	13,040	5,460	3,260	2,180	1,720	1,330	86,910	90,740	92%
2000	1,283	2,053	1,603	16,933	48,415	22,036	7,910	4,491	2,021	2,021	1,468	1,347	110,977	117,042	119%
2001	2,112	1,593	1,644	6,230	13,123	12,514	4,338	2,577	1,555	1,252	1,027	891	48,855	51,158	52%
2002	940	3,493	22,659	15,523	5,885	7,279	4,026	2,749	1,730	1,363	1,129	982	66,817	70,777	72%
2003	938	2,350	28,893	11,334	4,998	5,330	10,074	6,532	2,676	1,646	1,287	1,023	77,082	80,509	82%
2004	938	1,579	16,955	17,022	25,091	11,601	4,011	2,378	1,620	1,240	998	859	84,292	88,008	89%
2005	2,511	1,714	16,019	28,360	18,464	27,449	13,777	7,478	3,872	2,174	1,384	936	124,138	129,444	131%
2006	1,371	1,565	28,684	26,163	9,902	45,913	62,360	10,188	5,034	3,216	2,214	1,720	198,330	206,596	210%
2007	1,574	1,839	3,283	2,078	8,269	3,954	2,249	1,629	1,142	922	781	750	28,472	29,960	30%
2008	990	875	1,795	23,728	13,540	4,950	2,315	1,629	1,077	879	762	684	53,225	55,702	57%
Avg	1,419	3,051	9,850	19,558	22,276	18,199	10,757	4,530	2,483	1,667	1,247	1,079	96,069	98,579	100%
Min	508	676	906	849	924	1,315	734	716	558	410	400	493	9,568	10,225	10%
Max	10,822	27,426	81,114	76,344	102,896	91,200	62,360	19,809	7,815	4,048	2,703	3,100	283,196	288,194	292%
% of avg Yr	1.5%	3.2%	10.3%	20%	23%	19%	11%	4.7%	2.6%	1.7%	1.3%	1.1%	100%		

Water Year	USGS Gaged Streamflow														Gaged Precipitation (Table 3-4)*										
	San Lorenzo R at Big Trees		Pescadero Ck near Pescadero		San Lorenzo R at Waterman Switch		Boulder Ck at Boulder Creek		San Vicente Ck near Davenport		Zayante Ck at Zayante		Bean Ck		Santa Cruz	Lockheed									
	ac-ft/yr	percent of avg	ac-ft/yr	percent of avg	ac-ft/yr	percent of avg	ac-ft/yr	percent of avg	ac-ft/yr	percent of avg	ac-ft/yr	percent of avg	ac-ft/yr	percent of avg	percent of avg	percent of avg									
1937	87,723	88%													108%	92%									
1938	184,008	184%													136%	140%									
1939	22,994	23%													67%	48%									
1940	173,101	173%	144%											129%	138%	115%									
1941	264,888	264%													194%	167%									
1942	158,092	158%													134%	126%									
1943	118,770	119%													125%	95%									
1944	48,627	49%													87%	71%									
1945	87,245	87%													105%	90%									
1946	63,527	63%													96%	69%									
1947	29,181	29%	54%												60%	89%									
1948	31,843	32%													78%	59%									
1949	61,140	61%			3,825	80%									95%	68%									
1950	55,908	56%													100%	77%									
1951	131,933	132%	169%												122%	76%									
1952	206,600	206%		66,929	219%										141%	132%									
1953	90,444	90%		31,897	104%										77%	116%									
1954	55,063	55%	66%	16,513	54%	53%									76%	97%									
1955	51,949	52%		15,658	51%										76%	78%									
1956	187,531	187%		66,972	219%										126%	85%									
1957	42,516	42%	145%	13,088	43%	169%									70%	118%									
1958	205,366	205%		74,788	244%					17,689	203%				159%	149%									
1959	61,603	62%		11,976	39%					5,681	65%				79%	70%									
1960	34,885	35%		7,404	24%					2,798	32%				68%	69%									
1961	18,665	20%		3,957	13%					832	10%				56%	53%									
1962	64,868	69%		16,595	54%					5,307	61%				87%	89%									
1963	136,149	142%		47,775	156%					13,704	157%				107%	131%									
1964	35,153	37%		7,487	24%					2,262	26%				60%	64%									
1965	114,857	120%		37,695	123%					8,636	99%				97%	128%									
1966	43,954	46%		13,011	43%					2,296	26%				65%	76%									
1967	163,883	169%		50,374	165%					16,551	190%				127%	149%									
1968	52,366	55%		15,870	52%					3,832	44%				68%	81%									
1969	201,169	205%		62,044	203%		9,366	196%		21,858	250%				143%	173%									
1970	119,599	124%	120%	30,417	99%	115%	5,176	108%		8,272	131%				96%	117%									
1971	63,943	67%		18,537	61%		2,895	60%		4,013	63%				86%	93%									
1972	23,969	25%		4,664	15%		913	19%		1,474	23%				61%	60%									
1973	163,636	170%		51,826	169%		9,367	196%		9,652	153%				143%	135%									
1974	138,171	144%		47,292	154%		7,525	157%		13,643	216%				108%	140%									
1975	77,698	82%		25,782	84%		4,059	85%		4,862	77%				77%	94%									
1976	14,009	15%	36%	2,986	10%	33%	642	13%	35%	1,147	18%	35%			49%	58%									
1977	9,568	10%		1,248	4%		308	6%		832	6%				43%	44%									
1978	147,068	153%		45,619	149%		7,927	165%		21,921	170%				119%	135%									
1979	61,113	64%		16,603	54%		2,510	52%		8,905	69%				92%	81%									
1980	135,840	140%		41,522	136%		7,317	153%		20,890	162%				118%	106%									
1981	37,141	39%		9,637	31%		1,290	27%		5,197	40%				69%	62%									
1982	226,687	230%	135%	71,786	235%	145%	10,664	223%	144%	27,882	216%	137%			153%	114%									
1983	283,196	288%		118,899	388%		16,852	352%		35,867	278%				171%	173%									
1984	80,376	84%		36,118	118%		5,333	111%		11,844	92%				76%	181%									
1985	43,791	46%		14,219	46%		1,612	34%		6,292	49%				94%	94%									
1986	169,439	175%		46,060	150%		8,375	175%		20,149	156%				130%	81%									
1987	23,930	25%		5,448	18%		832	17%		3,372	26%				50%	128%									
1988	20,229	21%		4,486	15%		628	13%		3,052	24%				59%	62%									
1989	24,417	26%		7,105	23%		739	15%		4,553	35%				77%	67%									
1990	19,389	21%		7,514	25%		1,696	35%		2,236	17%				77%	78%									
1991	30,287	32%	40%	9,742	32%	41%	1,042	22%	24%	5,115	40%	34%			53%	58%									
1992	48,391	51%		19,249	63%		1,832	38%		8,275	64%				65%	72%									
1993	111,060	116%		37,352	122%										116%	64%									
1994	28,458	30%		9,018	29%										107%	86%									
1995	177,830	185%		57,056	186%										136%	107%									
1996	125,958	131%		33,939	111%										100%	111%									
1997	142,717	149%	147%	36,947	121%	142%									116%	115%									
1998	203,234	212%		56,879	186%										189%	172%									
1999	86,910	91%		34,295	112%										107%	111%									
2000	110,977	117%		41,115	134%										115%	128%									
2001	48,855	51%		14,620	48%										81%	74%									
2002	66,817	71%	72%	19,265	63%	62%									91%	94%									
2003	77,082	80%		19,140	63%										92%	91%									
2004	84,292	88%		23,293	76%										80%	80%									
2005	124,138	129%		36,960	121%										138%	121%									
2006	198,330	206%	168%	66,955	219%	170%									135%	137%									
No.	70	13		55	10		25	4		16	2		16	3	35	5									
Avg.	97,636	100%	105%	30,611	100%	99%	4,509	94%	81%	11,649	90%	86%	6,784	107%	93%	8,001	92%	77%	8,923	102%	105%	100%	102%	100%	101%
Min.	9,568	10%	36%	1,248	4%	33%	308	6%	24%	832	6%	34%	602	10%	35%	439	5%	24%	2,172	25%	59%	47%	58%	44%	61%
Max.	283,196	288%	169%	118,899	388%	170%	16,852	352%	144%	35,867	278%	137%	17,849	282%	128%	31,367	359%	147%	18,829	215%	145%	194%	137%	181%	133%

Source: <http://nwis.waterdata.usgs.gov/ca/nwis/sw> \*Percentages of 1937-2006 average.

"Percent of average" reflects the following approximate adjustments:

1. San Lorenzo River at Big Trees adjusted for WY's 1961-2006 as summarized in Table 3-9.
2. Other streams adjusted for partial record length relative to San Lorenzo River at Big Trees and Pescadero Creek.

Table 3-14

Periods of Above and Below Average Gaged Streamflow, Selected Stations, 1937-2006