

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

**STREAM GAGING DATA FOR ARROYO GRANDE CREEK AND TRIBUTARIES**

Station Name:	Arroyo Grande Creek at Arroyo Grande	Lopez Creek near Arroyo Grande	Tar Spring Creek near Arroyo Grande	Wittenberg Creek near Arroyo Grande	Los Berros Creek near Nipomo	Arroyo Grande Creek above Phoenix Creek, near Arroyo Grande
Gage No:	11141500	11141280	11141400	11141160	11141600	11141150
Elevation, feet:	98	580	180	560	312	560
Latitude (DD-MM-SS):	35-07-28	35-14-08	35-07-56	35-13-02	35-05-17	35-11-19
Longitude (DDD-MM-SS):	120-34-05	120-28-17	120-32-30	120-27-17	120-30-32	120-26-03
Record Began (Water Year):	1940	1968	1968	1968	1968	1968
Drainage Area (sq. mi.):	102	21	18	3	15	13
Water Year	Stream Discharge in Acre-Feet					
1940	9,569					
1941	65,560					
1942	21,460					
1943	45,689					
1944	15,527					
1945	12,038					
1946	5,511					
1947	3,480					
1948	1,790					
1949	2,680					
1950	4,860					
1951	3,887					
1952	36,758					
1953	9,897					
1954	7,112					
1955	4,324					
1956	17,320					
1957	3,320					
1958	46,750					
1959	5,770					
1960	4,310					
1961	1,999					
1962	19,260					
1963	5,710					
1964	2,320					
1965	5,630					
1966	5,030					
1967	36,960					
1968	3,750	3,110	170	50	20	980
1969	24,016	24,997	10,176	3,131	4,990	7,825
1970	6,565	4,616	797	326	530	1,482
1971	4,510	3,890	660	300	500	1,110
1972	3,300	1,908	131	106	90	607
1973	10,690	12,216	2,133	1,332	2,810	1,663
1974	18,020	8,910	3,210	920	1,870	1,790
1975	4,010	4,696	883	N/A	730	1,039
1976	2,940	1,810	310	N/A	270	780
1977	2,570	1,370	70	N/A	200	570
1978	23,030	15,100	7,530	N/A	3,920	4,850
1979	4,940	4,400	1,180	N/A	630	1,390
1980	22,850	12,618	N/A	N/A	1,590	3,630
1981	4,560	6,420	N/A	N/A	830	1,790
1982	10,130	8,430	N/A	N/A	790	2,360
1983	92,070	26,980	N/A	N/A	6,660	5,220
1984	10,050	6,480	N/A	N/A	1,080	1,750
1985	2,750	3,780	N/A	N/A	330	810
1986	9,110	10,030	N/A	N/A	560	4,590
1987	2,210	3,390	N/A	N/A	30	870
1988	1,950 *	2,840	N/A	N/A	0	670
1989	2,600 *	2,430	N/A	N/A	0	600
1990	2,120	1,440	N/A	N/A	0	360
1991	5,010	2,769	N/A	N/A	908	512
1992	5,130	3,559	N/A	N/A	317 *	1,317 E

N/A: Not Available; E: Estimated; \*Incomplete Record

**STREAM GAGING DATA FOR ARROYO GRANDE CREEK AND TRIBUTARIES**

Station Name:	Arroyo Grande Creek at Arroyo Grande	Lopez Creek near Arroyo Grande	Tar Spring Creek near Arroyo Grande	Wittenberg Creek near Arroyo Grande	Los Berros Creek near Nipomo	Arroyo Grande Creek above Phoenix Creek, near Arroyo Grande
Gage No:	11141500	11141280	11141400	11141160	11141600	11141150
Elevation, feet:	98	580	180	560	312	560
Latitude (DD-MM-SS):	35-07-28	35-14-08	35-07-56	35-13-02	35-05-17	35-11-19
Longitude (DDD-MM-SS):	120-34-05	120-28-17	120-32-30	120-27-17	120-30-32	120-26-03
Record Began (Water Year):	1940	1968	1968	1968	1968	1968
Drainage Area (sq. mi.):	102	21	18	3	15	13
Water Year	Stream Discharge in Acre-Feet					
1993	9,010	8,469	N/A	N/A	1,056	N/A
1994	2,160 *	2,598	N/A	N/A	N/A	N/A
1995	18,110 *	14,304	N/A	N/A	1,136 *	N/A
	<i>For 1940-95 Water Years</i>	<i>For 1968-95 Water Years</i>	<i>For 1968-95 Water Years</i>	<i>For 1968-95 Water Years</i>	<i>For 1968-95 Water Years</i>	<i>For 1968-95 Water Years</i>
Sum	683,405	203,561	27,250	6,165	29,655	48,565
N	53	28	12	7	25	25
Mean	12,894	7,270	2,271	881	1,186	1,943
Mean for 1984-95 Water Years	4,548	5,174	N/A	N/A	358	1,275
Max	92,070	26,980	10,176	3,131	6,660	7,825
Min	1,790	1,370	70	50	0	360
STD	17,310	6,506	3,117	1,014	1,693	1,857
1996	15,500 *	7,676			968	
1997	60,599 *	16,755			3,253 *	
1998	81,114 *	26,033			8,385 *	
1999	8,591 *	5,350			512 *	
2000	7,922	6,852			924 *	
	<i>For 1940-2000 Water Years</i>	<i>For 1968-2000 Water Years</i>			<i>For 1968-2000 Water Years</i>	
Sum	886,411	266,227			45,782	
N	61	33			33	
Mean	14,531	8,067			1,387	
Max	92,070	26,980			8,385	
Min	1,790	1,370			0	
STD	19,389	7,094			1,981	

N/A: Not Available; E: Estimated; \*Incomplete Record

### STREAM DISCHARGE DATA FOR PISMO CREEK

Station Name: Pismo Creek at Pismo Beach  
 Gage No: None  
 Elevation, feet: 18.0\*  
 Latitude (DD-MM-SS): 35-08-33  
 Longitude (DDD-MM-SS): 120-37-58  
 Record Began (Water Year): 1990  
 Drainage Area (sq. mi.): 25.00

Year	Month	Stream Discharge in Acre-Feet
1990	Oct	N/A
1990	Nov	N/A
1990	Dec	N/A
1990	Jan	19
1990	Feb	34
1990	Mar	22
1990	Apr	2
1990	May	N/A
1990	Jun	N/A
1990	Jul	N/A
1990	Aug	N/A
1990	Sep	N/A
1991	Oct	N/A
1991	Nov	N/A
1991	Dec	N/A
1991	Jan	N/A
1991	Feb	7
1991	Mar	1,982
1991	Apr	38
1991	May	7
1991	Jun	2
1991	Jul	2
1991	Aug	1
1991	Sep	1
1992	Oct	N/A
1992	Nov	N/A
1992	Dec	39
1992	Jan	148
1992	Feb	4,084
1992	Mar	263
1992	Apr	78
1992	May	25
1992	Jun	3
1992	Jul	1
1992	Aug	N/A
1992	Sep	N/A
Sum		6,760
N		21
Mean		322
Max		4,084
Min		0
STD		940

N/A: Data Not Available

\*Estimated from USGS Pismo Beach Quadrangle (1978)

**STREAM GAGING DATA FOR SANTA MARIA RIVER AND TRIBUTARIES**

Station Name:	Bradley Ditch near Donavan	Santa Maria River at		Cuyama River below Twitchell
	Road at Santa Maria	Guadalupe	Sisquoc River near Gary	Dam
Gage No:	11140600	11141000	11140000	11138100
Elevation, feet:	225	65	355	402
Latitude (DD-MM-SS):	35-00-42	34-58-35	34-53-38	34-56-40
Longitude (DDD-MM-SS):	120-16-43	120-34-15	120-18-20	120-17-30
Record Began (Water Year):	1971	1941	1942	1959
Drainage Area (sq. mi.):	----	1,741	471	1,132

Water Year	Stream Discharge in Acre-Feet			
1941		183,290		
1942		1,080	15,660	
1943		71,910	66,320	
1944		13,560	37,810	
1945		4,990	16,970	
1946		4,880	8,520	
1947		2,530	2,230	
1948		0	0	
1949		0	90	
1950		2,460	1,200	
1951		0	0	
1952		112,760	73,730	
1953		360	5,170	
1954		1,270	9,910	
1955		0	610	
1956		4,200	8,360	
1957		0	90	
1958		133,550	99,220	
1959		0	2,410	4300
1960		0	50	1060
1961		0	560	20
1962		24,280	46,440	58560
1963		0	280	2430
1964		0	0	1670
1965		0	3,190	3010
1966		930	9,870	5350
1967		32,040	95,450	75100
1968		100	3,280	44190
1969		179,660	287,760	149160
1970		780	5,180	111320
1971	340	0	3,930	5730
1972	280	0	1,020	0
1973	1,570	9,990	36,520	42190
1974	620	210	5,610	33330
1975	630	310	8,180	5820
1976	520	0	390	0
1977	390	10	60	0
1978	2,400	49,870	108,230	82630
1979	N/A	2,230	28,360	122560
1980	1,350	21,180	85,950	109990
1981	1,110	550	6,540	10280
1982	1,110	320	14,900	26580
1983	2,520	151,390	231,800	91630
1984	980	3,570	8,550	
1985	870	0	0	
1986	1,280	3,570	25,160	
1987	1,150	10	0	
1988	1,140		3,620	
1989	412		0	
1990	470		0	
1991	1,140		33,020	
1992	1,270		41,950	
1993	N/A		182,210	

N/A: Data Not Available

**STREAM GAGING DATA FOR SANTA MARIA RIVER AND TRIBUTARIES**

Station Name:	Bradley Ditch near Donavan Road at Santa Maria	Santa Maria River at Guadalupe	Sisquoc River near Gary	Cuyama River below Twitchell Dam
Gage No:	11140600	11141000	11140000	11138100
Elevation, feet:	225	65	355	402
Latitude (DD-MM-SS):	35-00-42	34-58-35	34-53-38	34-56-40
Longitude (DDD-MM-SS):	120-16-43	120-34-15	120-18-20	120-17-30
Record Began (Water Year):	1971	1941	1942	1959
Drainage Area (sq. mi.):	----	1,741	471	1,132
Water Year	Stream Discharge in Acre-Feet			
1994	N/A		4,140	
1995	N/A		216,810	
	<i>For 1971-92 Water Years</i>	<i>For 1941-87 Water Years</i>	<i>For 1942-95 Water Years</i>	<i>For 1959-83 Water Years</i>
Sum	23,748	1,021,587	12,990,078	990,403
N	23	50	58	28
Mean	1,033	21,656	223,967	35,372
Mean for 1984-95 Water Years	N/A	N/A	728,639	N/A
Max	2,520	183,290	11,140,000	149,160
Min	225	0	0	0
STD	638	47,077	1,459,786	45,872
1996			39,771	
1997			46,103	
1998	4,221		322,532	
1999	1,235		10,944	
2000			18,792	
	<i>For 1971-99 Water Years</i>		<i>For 1942-2000 Water Years</i>	
Sum	27,008		2,285,452	
N	23		59	
Mean	1,174		38,736	
Max	4,221		322,532	
Min	280		0	
STD	883		71,313	

N/A: Data Not Available

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

Water Year	Santa Maria River at Mouth	Arroyo Grande Creek at Arroyo Grande
	Stream Discharge in Acre-Feet	
1895	206,400	52,200
1896	8,700	6,200
1897	79,800	20,600
1898	100	1,100
1899	100	3,100
1900	500	4,200
1901	164,600	43,000
1902	2,400	5,100
1903	58,300	15,000
1904	24,400	8,100
1905	205,000	51,900
1906	161,100	42,100
1907	356,700	76,200
1908	158,700	41,600
1909	277,800	64,700
1910	125,600	33,100
1911	273,600	63,900
1912	45,600	12,000
1913	41,700	11,300
1914	278,200	64,700
1915	219,400	54,600
1916	167,000	43,500
1917	111,700	29,100
1918	190,400	48,900
1919	400	4,200
1920	49,900	13,000
1921	100	3,100
1922	142,300	37,200
1923	2,400	5,100
1924	100	1,100
1925	100	2,100
1926	72,400	22,900
1927	96,500	29,400
1928	27,100	8,500
1929	100	3,200
1930	3,500	2,100
1931	4,300	800
1932	108,000	32,500
1933	15,800	5,700
1934	10,700	7,300
1935	40,200	1,500
1936	43,300	11,000
1937	156,600	39,300
1938	214,500	51,700
1939	21,300	8,800
1940	16,500	9,000
1941	307,800	66,500
1942	40,900	21,500
1943	144,700	45,700
1944	71,100	15,500
1945	37,500	12,000
1946	20,300	5,500
1947	10,100	3,500
Sum	4,816,300	1,265,900
N	53	53
Mean	90,874	23,885
Max	356,700	76,200
Min	100	800
STD	95,727	21,810

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

This Page Intentionally Blank