

Table 4-1. Summary of Hydrologic Data for Monitored Stations

DATE	STATION	LAND USE	ANTECEDENT DRY PERIOD (days)	TOTAL PRECIPITATION (in.)	RAINFALL DURATION (hrs)	AVG. RAINFALL INTENSITY (in./hr)	BASE FLOW VOLUME (acre-ft)	TOTAL RUNOFF VOLUME (acre-ft)
08-Nov-1998	Ballona Creek (S01)	ME	179	1.28	6.75	0.19	NA	NA
07-Nov-1998	Malibu Creek (S02)	ME	178	0.64	4.25	0.15	32.2	30.0
08-Nov-1998	Santa Monica Pier (S08)	COMM.	179	1.28	6.75	0.19	0.17	10.5
08-Nov-1998	Sawpit Creek (S11)	VAC.	66	0.60	4.75	0.13	2.3	0.63
08-Nov-1998	Coyote Creek (S13)	ME	110	0.60	1.50	0.40	40.9	1171
08-Nov-1998	San Gabriel River (S14)	ME	149	0.44	3.20	0.14	86.2	144
08-Nov-1998	Project 620 (S18)	HDSFR	145	0.36	2.75	0.13	NA	NA
08-Nov-1998	Dominguez Channel (S23)	TRAN.	179	1.28	6.75	0.19	0.25	91.2
08-Nov-1998	Project 1202 (S24)	LT. IND.	61	0.91	6.50	0.14	0.94	25.2
08-Nov-1998	Project 474 (S25)	EDU	59	0.52	5.25	0.10	0.07	1.9
08-Nov-1998	Project 404 (S26)	MFR	66.0	0.60	4.75	0.13	0.11	2.9
08-Nov-1998	Project 156 (S27)	MIX. RES.	145	0.36	2.75	0.13	NA	NA
28-Nov-1998	Ballona Creek (S01)	ME	16.8	0.40	10.50	0.04	NA	NA
28-Nov-1998	Malibu Creek (S02)	ME	16.9	0.76	9.25	0.08	62.7	157.6
28-Nov-1998	Santa Monica Pier (S08)	COMM.	16.8	0.40	10.50	0.04	0.03	2.63
28-Nov-1998	Sawpit Creek (S11)	VAC.	16.0	1.20	12.75	0.09	6.3	1.4
28-Nov-1998	Coyote Creek (S13)	ME	19.9	0.32	10.25	0.03	70.7	667
28-Nov-1998	San Gabriel River (S14)	ME	16.5	0.60	11.00	0.05	77.9	22
28-Nov-1998	Project 620 (S18)	HDSFR	19.9	0.52	10.25	0.05	NA	NA
28-Nov-1998	Dominguez Channel (S23)	TRAN.	16.8	0.40	10.50	0.04	0.10	15.6
28-Nov-1998	Project 1202 (S24)	LT. IND.	16.8	0.29	11.00	0.03	1.2	8.4
28-Nov-1998	Project 474 (S25)	EDU	16.8	0.76	10.50	0.07	0.09	0.63
28-Nov-1998	Project 404 (S26)	MFR	15.9	1.20	12.75	0.09	0.0	2.2
28-Nov-1998	Project 156 (S27)	MIX. RES.	19.9	0.52	10.25	0.05	0.0	50.5
01-Dec-1998	Ballona Creek (S01)	ME	2.9	0.16	5.00	0.03	27.6	334
01-Dec-1998	Malibu Creek (S02)	ME	2.9	0.44	7.75	0.06	38.8	22.7
01-Dec-1998	Santa Monica Pier (S08)	COMM.	2.9	0.16	5.00	0.03	0.46	1.95
01-Dec-1998	Sawpit Creek (S11)	VAC.	3.1	0.28	6.50	0.04	1.0	0.11
01-Dec-1998	Coyote Creek (S13)	ME	3.2	0.20	50.43	0.00	110.4	203
01-Dec-1998	San Gabriel River (S14)	ME	3.0	0.04	0.25	0.16	89.9	59.6
01-Dec-1998	Project 620 (S18)	HDSFR	3.0	0.12	1.25	0.10	NA	NA
01-Dec-1998	Dominguez Channel (S23)	TRAN.	2.9	0.16	5.00	0.03	0.28	4.9
01-Dec-1998	Project 1202 (S24)	LT. IND.	2.4	0.29	15.25	0.02	1.3	4.3
01-Dec-1998	Project 474 (S25)	EDU	2.8	0.24	5.65	0.04	NA	NA
01-Dec-1998	Project 404 (S26)	MFR	3.1	0.28	6.50	0.04	0.0	0.001
01-Dec-1998	Project 156 (S27)	MIX. RES.	3.0	0.12	1.25	0.10	0.0	24.8
06-Dec-1998	Ballona Creek (S01)	ME	1.2	0.44	1.75	0.25	15.0	443
06-Dec-1998	Malibu Creek (S02)	ME	1.2	0.24	11.50	0.02	55.8	0.26
06-Dec-1998	Santa Monica Pier (S08)	COMM.	1.2	0.44	1.75	0.25	0.18	2.74
06-Dec-1998	Sawpit Creek (S11)	VAC.	0.9	0.04	0.25	0.16	0.48	0.04
06-Dec-1998	Coyote Creek (S13)	ME	2.2	0.16	18.25	0.01	33.9	398
06-Dec-1998	San Gabriel River (S14)	ME	1.0	0.12	0.50	0.24	59.9	60
06-Dec-1998	Project 620 (S18)	HDSFR	4.5	0.16	0.75	0.21	NA	NA
06-Dec-1998	Dominguez Channel (S23)	TRAN.	1.2	0.44	1.75	0.25	0.03	15.1
06-Dec-1998	Project 1202 (S24)	LT. IND.	4.0	0.27	2.00	0.14	0.63	8.4
06-Dec-1998	Project 474 (S25)	EDU	2.5	0.24	10.25	0.02	NA	NA
06-Dec-1998	Project 404 (S26)	MFR	0.9	0.04	0.25	0.16	0.0	0.57
06-Dec-1998	Project 156 (S27)	MIX. RES.	4.5	0.16	0.75	0.21	0.0	10.6
20-Jan-1999	Ballona Creek (S01)	ME	44.8	0.16	1.75	0.09	29.2	146
19-Jan-1999	Malibu Creek (S02)	ME	44.4	0.08	1.75	0.05	5.3	1.9
20-Jan-1999	Santa Monica Pier (S08)	COMM.	44.8	0.16	1.75	0.09	0.32	2.0
20-Jan-1999	Sawpit Creek (S11)	VAC.	31.2	0.12	20.50	0.01	3.7	0.41
19-Jan-1999	Coyote Creek (S13)	ME	44.0	0.64	16.75	0.04	108.7	302

* Total Runoff Volume = Runoff Volume - Base Flow Volume
 JT: P:\EPPUB\WATER\MONITOR\98-99 MON RPT\Table_4-1

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DATE	STATION	LAND USE	ANTECEDENT DRY PERIOD (days)	TOTAL PRECIPITATION (in.)	RAINFALL DURATION (hrs)	AVG. RAINFALL INTENSITY (in./hr)	BASE FLOW VOLUME (acre-ft)	TOTAL RUNOFF VOLUME (acre-ft)
20-Jan-1999	San Gabriel River (S14)	ME	44.8	0.20	9.75	0.02	63.6	58
20-Jan-1999	Project 620 (S18)	HDSFR	44.8	0.16	10.00	0.02	NA	NA
20-Jan-1999	Dominguez Channel (S23)	TRAN.	44.8	0.16	1.75	0.09	0.03	6.0
20-Jan-1999	Project 1202 (S24)	LT. IND.	31.2	0.19	10.75	0.02	1.1	5.5
19-Jan-1999	Project 474 (S25)	EDU	44.4	0.24	27.25	0.01	NA	NA
20-Jan-1999	Project 404 (S26)	MFR	31.2	0.12	20.50	0.01	0.19	0.20
20-Jan-1999	Project 156 (S27)	MIX. RES.	44.8	0.16	10.00	0.02	0.0	17
25-Jan-1999	Ballona Creek (S01)	ME	4.9	1.00	44.75	0.02	66.8	2115
24-Jan-1999	Malibu Creek (S02)	ME	4.8	0.88	45.00	0.02	NA	NA
25-Jan-1999	Santa Monica Pier (S08)	COMM.	5.0	1.00	44.75	0.02	4.1	5.1
25-Jan-1999	Sawpit Creek (S11)	VAC.	4.0	2.16	44.08	0.05	4.8	1.6
25-Jan-1999	Coyote Creek (S13)	ME	4.4	1.44	52.38	0.03	NA	NA
25-Jan-1999	San Gabriel River (S14)	ME	4.7	1.28	40.75	0.03	NA	NA
25-Jan-1999	Project 620 (S18)	HDSFR	4.6	0.56	5.50	0.10	NA	NA
25-Jan-1999	Dominguez Channel (S23)	TRAN.	5.0	1.00	44.80	0.02	0.5	20.8
25-Jan-1999	Project 1202 (S24)	LT. IND.	4.5	0.47	6.75	0.07	0.95	10.6
24-Jan-1999	Project 474 (S25)	EDU	3.8	1.12	58.00	0.02	NA	NA
25-Jan-1999	Project 404 (S26)	MFR	4.0	2.16	44.25	0.05	0.0	7.9
25-Jan-1999	Project 156 (S27)	MIX. RES.	4.6	0.92	45.50	0.02	0.0	130.4
31-Jan-1999	Ballona Creek (S01)	ME	4.3	0.60	8.98	0.07	15.5	1074
31-Jan-1999	Malibu Creek (S02)	ME	4.4	0.52	2.00	0.26	NA	NA
31-Jan-1999	Santa Monica Pier (S08)	COMM.	4.3	0.60	9.00	0.07	0.87	3.9
31-Jan-1999	Sawpit Creek (S11)	VAC.	4.4	0.28	3.25	0.09	1.3	0.33
31-Jan-1999	Coyote Creek (S13)	ME	4.0	0.72	13.25	0.05	76.5	507
31-Jan-1999	San Gabriel River (S14)	ME	4.5	0.32	1.25	0.26	116.5	114
31-Jan-1999	Project 620 (S18)	HDSFR	4.3	0.60	2.25	0.27	NA	NA
31-Jan-1999	Dominguez Channel (S23)	TRAN.	4.3	0.60	9.00	0.07	0.03	5.7
31-Jan-1999	Project 1202 (S24)	LT. IND.	4.0	0.14	1.75	0.08	0.62	3.2
31-Jan-1999	Project 474 (S25)	EDU	3.9	0.44	2.25	0.20	NA	NA
31-Jan-1999	Project 404 (S26)	MFR	4.4	0.28	3.25	0.09	0.01	2.5
31-Jan-1999	Project 156 (S27)	MIX. RES.	4.3	0.60	2.25	0.27	0.0	34.7
04-Feb-1999	Ballona Creek (S01)	ME	4.3	0.20	14.00	0.01	22.1	249
04-Feb-1999	Malibu Creek (S02)	ME	4.6	0.48	5.25	0.09	8.4	3.1
04-Feb-1999	Santa Monica Pier (S08)	COMM.	4.3	0.20	14.00	0.01	1.3	0.52
04-Feb-1999	Sawpit Creek (S11)	VAC.	4.2	0.72	33.00	0.02	2.4	0.44
04-Feb-1999	Coyote Creek (S13)	ME	3.8	0.56	32.50	0.02	102.0	434
04-Feb-1999	San Gabriel River (S14)	ME	3.6	0.24	22.25	0.01	98.0	253
05-Feb-1999	Project 620 (S18)	HDSFR	4.7	0.12	9.75	0.01	NA	NA
04-Feb-1999	Dominguez Channel (S23)	TRAN.	4.3	0.20	14.00	0.01	0.10	7.1
04-Feb-1999	Project 1202 (S24)	LT. IND.	4.3	0.19	1.50	0.13	6.4	6.4
05-Feb-1999	Project 474 (S25)	EDU	4.7	0.20	8.75	0.02	NA	NA
04-Feb-1999	Project 404 (S26)	MFR	4.2	0.72	33.00	0.02	0.0	1.2
05-Feb-1999	Project 156 (S27)	MIX. RES.	4.6	0.12	9.75	0.01	0.0	22.5
09-Feb-1999	Ballona Creek (S01)	ME	3.9	0.20	5.00	0.04	7.1	498
09-Feb-1999	Malibu Creek (S02)	ME	4.3	0.92	5.25	0.18	NA	NA
09-Feb-1999	Santa Monica Pier (S08)	COMM.	3.9	0.20	5.00	0.04	0.61	2.6
09-Feb-1999	Sawpit Creek (S11)	VAC.	3.4	1.24	8.50	0.15	3.4	1.9
09-Feb-1999	Coyote Creek (S13)	ME	3.5	0.16	5.50	0.03	65.7	388
09-Feb-1999	San Gabriel River (S14)	ME	3.9	0.36	5.75	0.06	55.5	223
09-Feb-1999	Project 620 (S18)	HDSFR	4.0	0.68	8.00	0.09	NA	NA
09-Feb-1999	Dominguez Channel (S23)	TRAN.	3.9	0.20	5.00	0.04	0.14	4.7
09-Feb-1999	Project 1202 (S24)	LT. IND.	4.8	0.21	15.75	0.01	1.1	5.4
09-Feb-1999	Project 474 (S25)	EDU	4.0	0.68	6.00	0.11	NA	NA

* Total Runoff Volume = Runoff Volume - Base Flow Volume
 JT: P:\EPPUB\WATER\MONITOR\98-99 MON RPT\Table_4-1

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DATE	STATION	LAND USE	ANTECEDENT DRY PERIOD (days)	TOTAL PRECIPITATION (in.)	RAINFALL DURATION (hrs)	AVG. RAINFALL INTENSITY (in./hr)	BASE FLOW VOLUME (acre-ft)	TOTAL RUNOFF VOLUME (acre-ft)
09-Feb-1999	Project 404 (S26)	MFR	3.4	1.24	8.50	0.15	0.0	2.8
09-Feb-1999	Project 156 (S27)	MIX. RES.	4.0	0.68	8.00	0.09	0.0	34.4
09-Mar-1999	Ballona Creek (S01)	ME	27.7	0.08	0.50	0.16	12.9	53.4
09-Mar-1999	Malibu Creek (S02)	ME	28.0	0.04	0.25	0.16	NA	NA
09-Mar-1999	Santa Monica Pier (S08)	COMM.	27.7	0.08	0.50	0.16	0.0	0.72
09-Mar-1999	Sawpit Creek (S11)	VAC.	5.3	0.04	0.25	0.16	0.23	0.01
09-Mar-1999	Coyote Creek (S13)	ME	5.4	0.24	27.70	0.01	130.7	60.4
09-Mar-1999	Dominguez Channel (S23)	TRAN.	27.7	0.08	0.75	0.11	0.03	3.3
09-Mar-1999	Project 1202 (S24)	LT. IND.	27.2	0.11	3.50	0.03	0.42	1.5
09-Mar-1999	Project 474 (S25)	EDU	27.7	0.16	1.25	0.13	NA	NA
09-Mar-1999	Project 404 (S26)	MFR	5.3	0.04	0.25	0.16	0.01	0.03
15-Mar-1999	Ballona Creek (S01)	ME	5.9	0.72	3.50	0.21	16.2	1215
15-Mar-1999	Malibu Creek (S02)	ME	2.7	0.84	23.50	0.04	NA	NA
15-Mar-1999	Santa Monica Pier (S08)	COMM.	5.9	0.72	3.50	0.21	0.43	5.8
15-Mar-1999	Sawpit Creek (S11)	VAC.	4.0	0.40	3.50	0.11	1.6	0.55
15-Mar-1999	Coyote Creek (S13)	ME	4.7	0.24	25.70	0.01	126.2	778
15-Mar-1999	San Gabriel River (S14)	ME	33.6	0.48	3.75	0.13	NA	NA
15-Mar-1999	Project 620 (S18)	HDSFR	11.3	0.56	3.50	0.16	NA	NA
15-Mar-1999	Dominguez Channel (S23)	TRAN.	5.9	0.72	3.50	0.21	0.26	25.8
15-Mar-1999	Project 1202 (S24)	LT. IND.	5.7	0.23	12.25	0.02	0.86	21
15-Mar-1999	Project 474 (S25)	EDU	3.8	0.60	6.32	0.09	56.2	NA
15-Mar-1999	Project 404 (S26)	MFR	4.0	0.40	3.50	0.11	0.05	3.6
15-Mar-1999	Project 156 (S27)	MIX. RES.	11.3	0.56	3.50	0.16	0.0	10.5
20-Mar-1999	Ballona Creek (S01)	ME	4.7	0.32	4.25	0.08	18.5	517
20-Mar-1999	Malibu Creek (S02)	ME	3.7	0.48	7.00	0.07	NA	NA
20-Mar-1999	Santa Monica Pier (S08)	COMM.	4.7	0.32	4.25	0.08	0.54	2.6
20-Mar-1999	Sawpit Creek (S11)	VAC.	4.9	0.16	0.75	0.21	1.4	0.13
20-Mar-1999	Coyote Creek (S13)	ME	2.2	0.20	3.50	0.06	53.8	117
20-Mar-1999	San Gabriel River (S14)	ME	4.8	0.12	3.00	0.04	NA	NA
20-Mar-1999	Project 620 (S18)	HDSFR	4.9	0.08	1.50	0.05	NA	NA
20-Mar-1999	Dominguez Channel (S23)	TRAN.	4.7	0.32	4.25	0.08	0.09	7.1
20-Mar-1999	Project 1202 (S24)	LT. IND.	4.3	0.02	9.75	0.00	1.4	3.7
20-Mar-1999	Project 474 (S25)	EDU	4.5	0.48	5.50	0.09	NA	NA
20-Mar-1999	Project 404 (S26)	MFR	4.9	0.16	1.00	0.16	0.04	0.4
20-Mar-1999	Project 156 (S27)	MIX. RES.	4.9	0.08	1.50	0.05	NA	NA
25-Mar-1999	Ballona Creek (S01)	ME	4.9	1.08	20.75	0.05	NA	NA
25-Mar-1999	Malibu Creek (S02)	ME	3.7	0.96	13.20	0.07	NA	NA
25-Mar-1999	Santa Monica Pier (S08)	COMM.	4.9	1.08	20.75	0.05	2.0	11.2
25-Mar-1999	Sawpit Creek (S11)	VAC.	5.0	0.24	4.75	0.05	1.4	0.15
25-Mar-1999	Coyote Creek (S13)	ME	4.5	0.08	0.25	0.32	156.0	303
25-Mar-1999	San Gabriel River (S14)	ME	5.1	0.16	2.25	0.07	NA	NA
25-Mar-1999	Project 620 (S18)	HDSFR	5.0	0.56	5.75	0.10	0.0	1.45
25-Mar-1999	Dominguez Channel (S23)	TRAN.	4.9	1.08	20.75	0.05	0.08	34.7
25-Mar-1999	Project 1202 (S24)	LT. IND.	4.7	0.02	15.25	0.00	2.0	13.7
25-Mar-1999	Project 474 (S25)	EDU	1.7	0.76	12.25	0.06	NA	NA
25-Mar-1999	Project 404 (S26)	MFR	5.0	0.24	4.75	0.05	0.09	1.1
25-Mar-1999	Project 156 (S27)	MIX. RES.	5.0	0.56	5.75	0.10	NA	NA
06-Apr-1999	Ballona Creek (S01)	ME	4.7	1.40	32.90	0.04	47.1	2136
06-Apr-1999	Malibu Creek (S02)	ME	8.5	0.60	29.97	0.02	NA	NA
06-Apr-1999	Santa Monica Pier (S08)	COMM.	4.7	1.40	32.90	0.04	0.0	13.4
06-Apr-1999	Sawpit Creek (S11)	VAC.	3.7	1.56	27.00	0.06	1.8	1.4
06-Apr-1999	Coyote Creek (S13)	ME	4.7	0.24	31.50	0.01	279.2	1651

* Total Runoff Volume = Runoff Volume - Base Flow Volume
 JT: P:\EPPUB\WATER\MONITOR\98-99 MON RPT\Table_4-1

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DATE	STATION	LAND USE	ANTECEDENT DRY PERIOD (days)	TOTAL PRECIPITATION (in.)	RAINFALL DURATION (hrs)	AVG. RAINFALL INTENSITY (in./hr)	BASE FLOW VOLUME (acre-ft)	TOTAL RUNOFF VOLUME (acre-ft)
06-Apr-1999	San Gabriel River (S14)	ME	3.7	0.96	26.52	0.04	0.0	7579
06-Apr-1999	Project 620 (S18)	HDSFR	4.2	0.76	26.75	0.03	0.0	1.4
06-Apr-1999	Dominguez Channel (S23)	TRAN.	4.7	1.40	33.00	0.04	0.0	23.4
06-Apr-1999	Project 1202 (S24)	LT. IND.	6.1	0.32	22.50	0.01	2.3	14.9
06-Apr-1999	Project 474 (S25)	EDU	11.5	0.48	6.15	0.08	NA	NA
06-Apr-1999	Project 404 (S26)	MFR	3.7	1.56	27.00	0.06	2.0	9.6
06-Apr-1999	Project 156 (S27)	MIX. RES.	4.2	0.76	26.75	0.03	0.0	34.4
08-Apr-1999	Ballona Creek (S01)	ME	1.1	0.08	0.25	0.32	12.2	92.2
08-Apr-1999	Malibu Creek (S02)	ME	1.3	0.08	0.25	0.32	NA	NA
08-Apr-1999	Santa Monica Pier (S08)	COMM.	1.1	0.08	0.25	0.32	NA	NA
08-Apr-1999	Sawpit Creek (S11)	VAC.	1.3	0.20	1.75	0.11	0.5	0.04
08-Apr-1999	Coyote Creek (S13)	ME	1.2	0.08	0.25	0.32	109.7	79.7
08-Apr-1999	San Gabriel River (S14)	ME	1.3	0.04	0.25	0.16	0.0	241
08-Apr-1999	Project 620 (S18)	HDSFR	0.7	0.12	17.00	0.01	0.0	0.12
08-Apr-1999	Dominguez Channel (S23)	TRAN.	1.1	0.80	0.25	3.20	0.0	1.0
08-Apr-1999	Project 474 (S25)	EDU	1.6	0.08	2.00	0.04	NA	NA
08-Apr-1999	Project 404 (S26)	MFR	1.3	0.20	1.75	0.11	0.02	0.25
08-Apr-1999	Project 156 (S27)	MIX. RES.	0.7	0.12	17.00	0.01	0.0	7.4
11-Apr-1999	Ballona Creek (S01)	ME	2.8	1.36	9.79	0.14	12.3	1543
11-Apr-1999	Malibu Creek (S02)	ME	2.9	0.52	9.25	0.06	NA	NA
11-Apr-1999	Santa Monica Pier (S08)	COMM.	2.8	1.36	9.75	0.14	0.0	14.2
11-Apr-1999	Sawpit Creek (S11)	VAC.	2.7	0.76	22.25	0.03	3.8	1.24
11-Apr-1999	Coyote Creek (S13)	ME	2.7	0.76	10.50	0.07	304.7	2671
11-Apr-1999	San Gabriel River (S14)	ME	2.7	0.76	12.00	0.06	0.0	3265
11-Apr-1999	Project 620 (S18)	HDSFR	2.7	0.64	10.75	0.06	0.0	1.3
11-Apr-1999	Dominguez Channel (S23)	TRAN.	2.8	1.36	9.75	0.14	0.0	69.2
11-Apr-1999	Project 1202 (S24)	LT. IND.	4.2	1.16	25.50	0.05	1.7	64.7
11-Apr-1999	Project 474 (S25)	EDU	2.8	1.20	22.33	0.05	NA	NA
11-Apr-1999	Project 404 (S26)	MFR	2.7	0.76	22.35	0.03	0.02	4.5
11-Apr-1999	Project 156 (S27)	MIX. RES.	2.7	0.64	10.75	0.06	0.0	105.5

NA - No Flow Data Recorded At This Station

LAND USE CODES:

- ME - Mass Emission
- COMM. - Retail/Commercial
- VAC. - Vacant
- HDSFR - High Density Single Family Residential
- TRAN. - Transportation
- LT. IND. - Light Industrial
- EDU - Educational
- MFR - Multi-Family Residential
- MIX. RES. - Mixed Residential