

11141280 Lopez Creek near Arroyo Grande, CA

Arroyo Grande Basin

LOCATION.--Lat 35°14'08", long 120°28'17" referenced to North American Datum of 1927, in SE ¼ sec.19, T.31 S., R.14 E., San Luis Obispo County, CA, Hydrologic Unit 18060006, on left bank, 3.4 mi north of Lopez Lake Spillway, and 9.2 mi northeast of Arroyo Grande.

DRAINAGE AREA.--20.9 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1967 to current year.

CHEMICAL DATA: Water year 1977.

WATER TEMPERATURE: Water years 1968-72.

SEDIMENT DATA: Water years 1968-72.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 580 ft above NGVD of 1929, from topographic map. Prior to Oct. 31, 1984, at site 0.4 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Small diversions upstream from station for domestic use.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,830 ft³/s, Jan. 25, 1969, gage height, 9.26 ft in gage well, 10.8 ft from floodmarks, site and datum then in use, from rating curve extended above 300 ft³/s, on basis of slope-area measurement of peak flow, maximum gage height, 12.42 ft, Dec. 31, 2004; minimum daily discharge, 0.30 ft³/s, Aug. 1, 1977.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 19	1130	*857	*12.28
Dec 22	1215	224	9.17
Dec 25	2200	100	8.14
Feb 19	0115	138	8.66
Feb 25	1845	231	9.31
Mar 20	1030	325	9.86
Mar 25	0015	309	9.77

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.7	1.7	2.5	e37	6.7	30	44	10	6.1	4.4	3.9	3.2
2	1.9	1.7	2.4	60	6.5	28	39	10	6.0	4.4	3.1	3.2
3	1.8	1.8	2.4	68	6.2	25	36	9.8	5.9	4.4	3.4	3.3
4	1.4	1.8	2.4	45	6.0	23	33	9.3	6.2	4.2	3.3	3.2
5	1.5	1.8	2.8	36	5.9	22	32	9.1	7.0	4.0	3.1	3.2
6	2.2	1.9	3.3	e30	5.7	20	29	9.1	7.0	3.9	3.2	3.0
7	1.8	2.1	2.9	e25	5.6	19	26	9.1	6.3	3.9	3.3	2.9
8	1.6	2.2	2.7	e21	5.6	17	25	8.8	6.2	3.9	3.4	2.9
9	1.5	2.0	2.7	e18	5.4	e16	24	8.6	6.0	3.9	3.6	3.1
10	1.4	2.0	2.6	e16	5.4	e16	22	8.5	5.9	3.9	3.8	3.6
11	1.5	1.9	2.6	14	5.3	e15	21	8.4	5.8	3.9	3.9	3.9
12	1.5	1.8	2.6	13	5.1	e15	20	8.2	5.8	3.9	3.9	3.6
13	1.5	1.8	2.7	12	5.1	e14	18	8.0	5.7	3.9	3.9	3.3
14	1.6	1.6	2.8	12	5.3	e13	18	8.0	5.7	3.8	3.8	3.3
15	1.7	1.6	2.8	11	5.2	e12	17	8.2	5.8	3.9	3.9	3.3
16	1.7	1.6	2.8	11	9.7	11	16	7.9	5.9	3.8	4.0	3.2
17	1.8	1.6	3.2	10	7.8	11	15	9.7	5.8	3.7	3.9	3.0
18	1.9	1.6	48	9.7	11	11	14	9.1	5.7	3.6	4.1	2.8
19	1.8	1.8	402	9.1	67	13	14	7.9	5.6	3.5	3.5	2.8
20	1.8	3.6	86	8.8	38	201	13	7.5	5.4	3.6	3.0	2.9
21	1.9	4.8	49	8.5	26	112	13	7.3	5.3	3.7	3.0	3.1
22	1.9	2.9	105	8.3	20	64	12	7.1	5.2	3.7	3.1	3.1
23	2.0	2.8	58	8.0	17	55	12	6.8	5.1	3.7	3.0	3.1
24	2.4	2.8	e41	7.7	16	68	12	6.7	5.1	3.6	2.9	3.2
25	2.2	2.7	e48	7.5	82	149	12	6.6	5.0	3.7	2.9	3.1
26	2.3	2.7	64	7.3	82	94	12	6.5	4.9	3.6	3.0	2.9
27	2.4	2.7	46	7.1	47	99	11	6.4	4.6	3.8	2.9	2.9
28	2.5	2.6	e38	7.0	36	73	11	6.3	4.7	3.8	2.9	2.8
29	2.8	2.5	63	6.9	---	63	11	6.3	4.6	4.0	2.9	3.0
30	3.7	2.5	52	8.1	---	56	10	6.1	4.6	4.1	3.1	3.0
31	1.9	---	e43	7.1	---	48	---	6.1	---	4.2	3.2	---
Total	59.6	66.9	1,189.2	550.1	544.5	1,413	592	247.4	168.9	120.4	104.9	93.9
Mean	1.92	2.23	38.4	17.7	19.4	45.6	19.7	7.98	5.63	3.88	3.38	3.13
Max	3.7	4.8	402	68	82	201	44	10	7.0	4.4	4.1	3.9
Min	1.4	1.6	2.4	6.9	5.1	11	10	6.1	4.6	3.5	2.9	2.8
Ac-ft	118	133	2,360	1,090	1,080	2,800	1,170	491	335	239	208	186

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3.14	4.15	8.01	20.8	27.5	25.5	13.8	7.30	4.77	3.52	2.94	2.74
Max	9.12	13.6	38.4	145	169	133	65.2	46.1	21.3	14.7	10.2	9.40
(WY)	(1984)	(1984)	(2011)	(1969)	(1998)	(1983)	(1983)	(1983)	(1998)	(1998)	(1998)	(1998)
Min	1.03	1.23	1.58	2.00	2.00	2.46	2.08	1.75	1.38	0.72	0.44	0.82
(WY)	(1978)	(1978)	(1991)	(1991)	(1991)	(1977)	(1977)	(1990)	(1972)	(1977)	(1977)	(1977)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1967 - 2011	
Annual total	3,602.7		5,150.8			
Annual mean	9.87		14.1		10.3	
Highest annual mean					37.3	1983
Lowest annual mean					1.89	1977
Highest daily mean	402	Dec 19	402	Dec 19	1,360	Jan 25, 1969
Lowest daily mean	1.2	Sep 25	1.4	Oct 4	0.30	Aug 1, 1977
Annual seven-day minimum	1.4	Sep 22	1.5	Oct 8	0.34	Jul 28, 1977
Maximum peak flow			857	Dec 19	2,830	Jan 25, 1969
Maximum peak stage			12.28	Dec 19	12.42	Dec 31, 2004
Instantaneous low flow			0.99	Oct 3	0.99	Oct 3, 2010
Annual runoff (ac-ft)	7,150		10,220		7,430	
10 percent exceeds	18		37		17	
50 percent exceeds	3.0		5.3		3.8	
90 percent exceeds	1.6		1.9		1.6	

