Water-Data Report 2013

11336580 Morrison Creek near Sacramento, CA

Sacramento River Basin

LOCATION.--Lat 38°29′55″, long 121°27′06″ referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.32, T.8 N., R.5 E., Sacramento County, CA, Hydrologic Unit 18020109, on right bank, 750 ft upstream from Florin Road, 1.6 mi upstream from Elder Creek, and 3.8 mi south of State Capitol Building in Sacramento.

DRAINAGE AREA.--53.4 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1959 to September 1987, October 1997 to current year.

REVISED RECORDS.--WDR CA-72-2: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 10.08 ft above NGVD of 1988. Prior to June 29, 1960, at site 650 ft downstream at datum 1.55 ft higher. June 29, 1960, to Sept. 12, 1965, at site 475 ft upstream at datum 2.71 ft higher. Sept. 12, 1965, to Sept. 30, 2011, at different datum.

REMARKS.--Records fair. No regulation or diversion above station. Summer flow is sustained by wastewater from domestic and industrial use. During major storm events record can be affected by backwater from Beach Lake located 5.7 mi downstream from gage. Flow is diverted by pumps into the Sacramento River.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,860 ft^3/s, Dec. 31, 2005, gage height, 9.72 ft, maximum gage height, 10.40 ft, Feb. 17, 1986; no flow at times in 1960, 1962, 1965.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 2	1000	*1,540	*7.19
Dec 25	1900	871	5.41

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 11336580, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/11336580.2013.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9.7	33	232	18	9.5	9.6	21	4.4	6.4	4.7	6.8	e10
2	9.8	14	516	16	12	7.0	22	3.8	e7.4	4.3	7.7	e12
3	9.9	11	143	16	11	e3.3	12	3.7	7.4	4.1	9.7	e12
4	9.8	11	55	14	11	e3.5	73	3.6	8.5	4.1	7.4	e13
5	9.3	11	127	21	11	4.0	16	6.2	8.2	3.8	7.8	12
6	9.8	11	51	156	11	25	9.7	10	9.8	6.8	8.7	13
7	10	11	34	40	9.2	8.8	9.2	7.9	8.6	8.0	8.3	11
8	9.8	13	22	22	11	8.2	10	5.6	8.5	8.1	7.8	3.0
9	11	12	18	17	10	7.2	5.0	6.2	9.1	8.8	5.2	3.8
10	11	12	16	16	10	6.9	7.4	5.6	7.7	9.1	1.1	9.7
11	11	12	16	17	10	7.2	7.4	5.3	7.9	9.9	0.84	14
12	10	12	16	16	10	7.8	7.6	5.5	8.0	9.8	1.0	14
13	9.6	12	15	14	8.9	8.5	7.3	3.9	8.4	11	1.3	15
14	11	12	15	13	9.2	8.3	8.1	4.3	8.9	11	2.5	15
15	11	11	22	13	10	7.6	7.7	4.3	9.0	12	3.8	15
16	11	15	17	13	10	6.0	7.8	4.3	9.3	11	3.6	14
17	10	64	55	13	9.5	5.0	7.8	4.1	9.2	10	6.4	15
18	11	90	25	12	9.4	4.6	7.7	4.3	10	10	4.0	15
19	11	16	17	12	24	4.8	6.2	3.5	7.7	9.4	8.0	14
20	11	11	16	12	12	30	5.7	3.2	4.4	9.2	8.5	14
21	12	43	40	12	8.8	8.7	5.1	4.0	3.9	7.9	9.2	80
22	84	18	226	9.3	8.7	6.2	5.1	3.6	4.8	2.6	11	28
23	41	11	337	13	9.1	5.7	4.8	4.3	4.7	3.0	12	9.4
24	19	10	213	14	9.0	5.4	5.4	4.7	7.9	8.4	12	3.6
25	11	9.8	223	10	7.9	5.3	4.9	4.4	12	8.8	12	1.4
26	9.5	9.7	271	9.9	8.5	5.2	5.2	4.9	6.5	6.9	12	1.6
27	10	10	82	9.5	9.1	4.9	5.2	4.8	4.9	5.2	9.4	1.6
28	9.2	58	51	9.0	9.4	5.4	4.8	5.9	4.2	5.1	7.6	3.9
29	9.2	36	36	9.3	---	6.7	4.4	7.6	4.5	5.0	11	5.3
30	9.6	470	24	9.9	---	6.3	3.8	5.2	4.8	5.2	11	5.7
31	9.8	---	20	9.2	---	129	---	5.0	---	4.5	14	---
Total	431.0	1,069.5	2,951	586.1	289.2	362.1	307.3	154.1	222.6	227.7	231.64	385.0
Mean	13.9	35.6	95.2	18.9	10.3	11.7	10.2	4.97	7.42	7.35	7.47	12.8
Max	84	470	516	156	24	129	73	10	12	12	14	80
Min	9.2	9.7	15	9.0	7.9	3.3	3.8	3.2	3.9	2.6	0.84	1.4
Ac-ft	855	2,120	5,850	1,160	574	718	610	306	442	452	459	764

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	11.1	19.0	31.0	52.5	61.0	32.0	15.8	7.05	5.86	6.14	6.01	6.43
Max	77.8	67.5	106	212	415	213	91.4	19.5	11.4	17.6	12.4	21.9
(WY)	(1963)	(1982)	(1984)	(1969)	(1986)	(1983)	(1982)	(2011)	(2011)	(1974)	(1959)	(1981)
Min	2.59	3.16	3.06	4.24	6.26	6.72	2.45	3.68	2.62	2.09	2.37	3.00
(WY)	(1978)	(1960)	(2000)	(1976)	(1964)	(1960)	(1977)	(1979)	(1977)	(1977)	(1977)	(2000)

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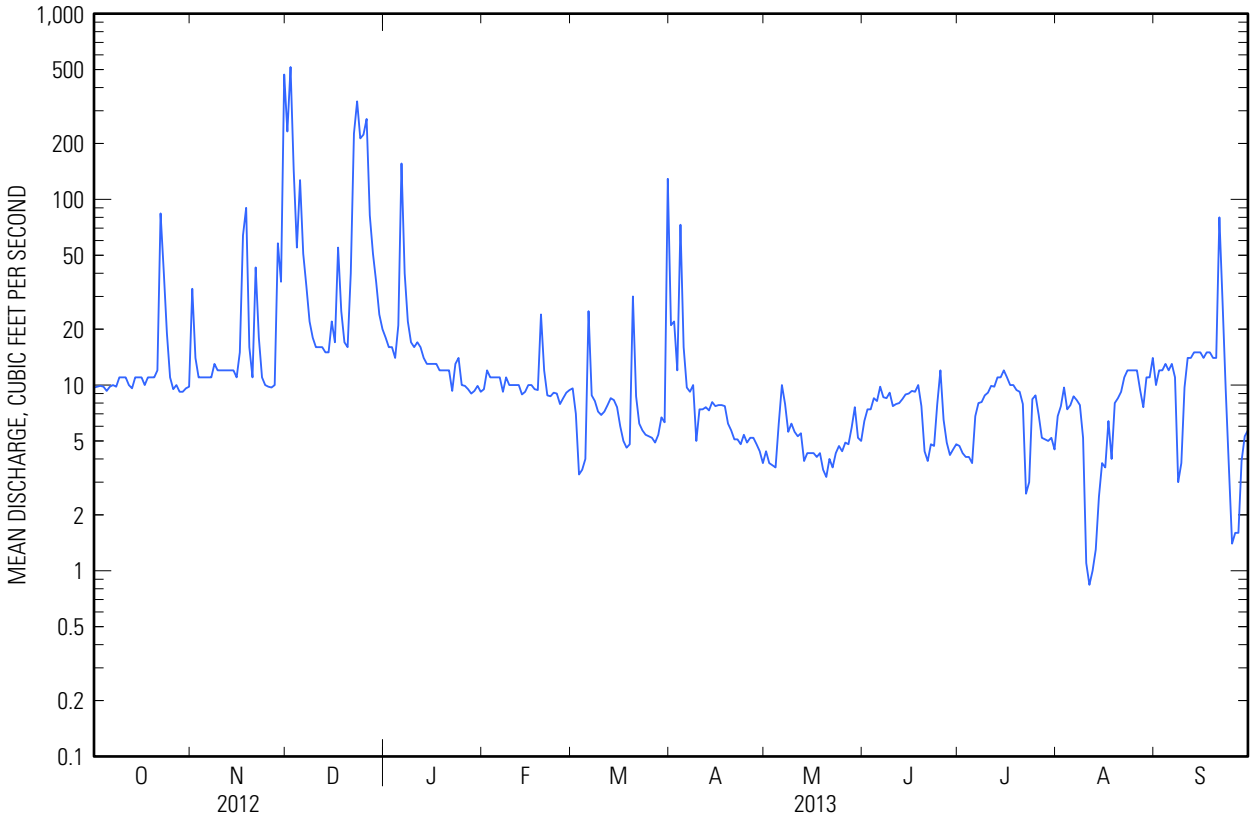
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1959 - 2013	
Annual total	8,983.0		7,217.24			
Annual mean	24.5		19.8		20.9	
Highest annual mean					59.6	1983
Lowest annual mean					4.76	1977
Highest daily mean	516	Dec 2	516	Dec 2	1,940	Jan 5, 1982
Lowest daily mean	1.5	Aug 24	0.84	Aug 11	0.00	Jul 12, 1960
Annual seven-day minimum	1.7	Aug 22	2.0	Aug 10	0.07	Jul 11, 1960
Maximum peak flow			1,540	Dec 2	2,860	Dec 31, 2005
Maximum peak stage			7.19	Dec 2	10.40	Feb 17, 1986
Annual runoff (ac-ft)	17,820		14,320		15,160	
10 percent exceeds	44		24		33	
50 percent exceeds	9.3		9.5		6.2	
90 percent exceeds	4.2		4.3		3.3