

Water-Data Report 2013

11424000 Bear River near Wheatland, CA

Sacramento River Basin

LOCATION.--Lat 39°00'01", long 121°24'20" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.3, T.13 N., R.5 E., Placer County, CA, Hydrologic Unit 18020108, on right bank, 200 ft downstream from bridge on State Highway 65, 1 mi southeast of Wheatland, 6.5 mi downstream from Camp Far West Reservoir, and 12 mi upstream from mouth.

DRAINAGE AREA.--292 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1928 to current year.

CHEMICAL DATA: Water years 1953-80, 1999-2000.

SEDIMENT DATA: Water years 1999-2000.

REVISED RECORDS.--WSP 1931: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 71.92 ft above NGVD of 1929. See WSP 2131 for history of changes prior to May 28, 1970.

REMARKS.--Records good except for period of beaver activity, Sept. 9-29, which are fair. Natural flow of stream affected by inflow from Yuba and American River Basins. Flow regulated by Lake Combie, usable capacity, 7,840 acre-ft, since 1928; Rollins Reservoir (station 11421800), since December 1964; and Camp Far West Reservoir, usable capacity, 102,200 acre-ft, since October 1963. Many diversions for irrigation and power. See schematic diagrams of Bear River Basin and lower Sacramento River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,000 ft³/s, Feb. 17, 1986, gage height, 21.60 ft, maximum gage height, 24.28 ft, Dec. 31, 2005; no flow at times.

11424000 Bear River near Wheatland, CA—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	13	13	53	1,050	763	412	471	41	37	49	45	24
2	13	11	176	1,010	758	410	401	39	33	67	57	26
3	14	11	370	933	759	413	273	34	31	66	53	25
4	13	11	844	850	699	409	40	33	29	61	52	18
5	13	34	876	805	636	256	36	32	28	57	52	8.4
6	13	31	849	806	635	12	36	30	28	59	53	8.5
7	11	32	841	792	637	8.7	35	31	33	61	52	9.9
8	11	18	1,020	776	637	7.8	34	32	40	58	55	11
9	11	12	1,190	771	636	8.1	29	36	40	55	53	10
10	11	12	1,090	770	636	8.3	32	35	40	55	56	9.1
11	11	11	1,020	771	637	8.2	36	35	37	58	56	9.3
12	11	12	915	769	631	8.1	31	35	39	58	55	10
13	11	12	825	769	634	7.7	29	34	42	58	58	11
14	11	12	811	769	635	8.3	33	34	43	61	59	14
15	11	12	809	769	635	8.4	44	33	42	59	60	18
16	11	12	808	769	635	8.5	42	34	42	59	60	14
17	11	14	816	767	635	8.1	33	35	41	59	60	10
18	11	14	808	767	637	8.3	33	34	74	59	56	11
19	11	12	806	767	602	9.0	44	33	37	63	60	13
20	11	12	806	766	531	291	60	30	38	63	62	20
21	13	14	811	765	531	765	46	31	41	61	60	15
22	15	12	1,090	765	532	547	43	31	43	59	57	11
23	11	12	2,610	765	533	18	37	30	40	59	57	10
24	11	12	3,470	765	534	15	29	31	42	61	57	10
25	10	12	2,130	765	533	333	34	34	40	59	57	10
26	10	13	3,010	765	534	585	38	37	41	60	59	10
27	9.3	13	2,300	764	533	365	36	40	43	60	59	10
28	10	14	1,650	767	488	180	32	47	43	56	44	11
29	9.3	13	1,360	766	---	387	32	46	43	56	23	11
30	10	52	1,210	764	---	500	38	41	42	54	23	11
31	11	---	1,120	764	---	510	---	39	---	53	26	---
Total	352.6	475	36,494	24,661	17,226	6,515.5	2,137	1,087	1,192	1,823	1,636	389.2
Mean	11.4	15.8	1,177	796	615	210	71.2	35.1	39.7	58.8	52.8	13.0
Max	15	52	3,470	1,050	763	765	471	47	74	67	62	26
Min	9.3	11	53	764	488	7.7	29	30	28	49	23	8.4
Ac-ft	699	942	72,390	48,920	34,170	12,920	4,240	2,160	2,360	3,620	3,250	772

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1963, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	92.8	184	565	826	1,240	1,033	770	306	79.0	12.6	16.7	18.4
Max	1,348	1,980	3,501	3,004	3,360	2,918	2,553	939	245	55.4	148	215
(WY)	(1963)	(1951)	(1956)	(1956)	(1936)	(1938)	(1958)	(1942)	(1932)	(1952)	(1935)	(1935)
Min	2.05	9.14	21.3	68.0	156	192	11.3	.57	.71	.53	.65	.30
(WY)	(1961)	(1960)	(1960)	(1947)	(1933)	(1933)	(1959)	(1959)	(1959)	(1959)	(1939)	(1939)

11424000 Bear River near Wheatland, CA—Continued

SUMMARY STATISTICS

Water Years 1930 - 1963		
Annual mean	424	
Highest annual mean	891	1951
Lowest annual mean	70.0	1933
Highest daily mean	22,100	Dec 23, 1955
Lowest daily mean	.00	Sep 18, 1939
Annual seven-day minimum	.00	Sep 18, 1939
Maximum peak flow	33,000	Dec 22, 1955
Maximum peak stage	20.83	Nov 21, 1950
Annual runoff (ac-ft)	307,500	
10 percent exceeds	1,060	
50 percent exceeds	77	
90 percent exceeds	3.6	

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	20.7	112	430	834	1,122	1,154	768	278	80.3	26.9	25.9	19.4
Max	263	1,606	2,668	3,954	5,201	3,845	3,796	1,035	484	99.7	150	81.7
(WY)	(1999)	(1984)	(1984)	(1997)	(1986)	(1983)	(1982)	(1983)	(1998)	(2010)	(2008)	(2009)
Min	0.00	0.06	0.00	0.14	0.62	1.07	0.60	4.05	3.17	2.95	4.72	1.31
(WY)	(1978)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)

SUMMARY STATISTICS

	Calendar Year 2012	Water Year 2013	Water Years 1966 - 2013
Annual total	146,049.6	93,988.3	
Annual mean	399	258	402
Highest annual mean			1,191
Lowest annual mean			3.42
Highest daily mean	12,600	Mar 17	3,470
Lowest daily mean	9.3	Oct 27	7.7
Annual seven-day minimum	9.9	Oct 24	8.1
Maximum peak flow			4,320
Maximum peak stage			8.19
Annual runoff (ac-ft)	289,700	186,400	291,500
10 percent exceeds	1,370	773	1,180
50 percent exceeds	16	42	24
90 percent exceeds	12	11	10

1142400 Bear River near Wheatland, CA—Continued

