

Water-Data Report 2007

**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 mi<sup>2</sup>.

**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. 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 ft<sup>3</sup>/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 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	15	16	15	13	14	1,360	85	35	44	34	63	13
2	12	19	15	13	14	1,160	79	39	42	42	62	14
3	13	17	14	13	13	990	74	37	38	65	63	14
4	17	16	14	13	13	886	62	35	37	64	60	16
5	16	16	14	13	13	821	60	35	35	62	56	13
6	14	17	14	13	13	769	59	34	35	63	57	14
7	14	17	14	13	14	761	58	34	36	64	57	13
8	14	20	14	13	16	750	50	33	35	65	57	13
9	13	16	18	13	18	741	48	40	34	66	59	11
10	13	15	18	13	25	738	41	35	35	65	58	14
11	13	16	15	13	33	688	35	33	37	65	55	15
12	12	17	17	13	16	612	33	36	38	64	54	16
13	15	18	16	13	341	612	33	38	36	66	54	14
14	15	18	15	13	793	514	36	38	34	68	55	14
15	15	17	14	12	779	290	35	38	32	70	53	14
16	15	18	14	11	778	53	35	36	32	69	53	15
17	16	18	14	13	775	14	34	35	33	70	53	15
18	21	16	15	13	771	13	77	36	32	70	52	15
19	13	17	16	13	770	37	226	36	31	67	54	15
20	12	26	14	13	766	99	225	37	31	68	54	16
21	14	21	16	12	764	120	217	38	31	68	54	15
22	15	18	15	12	577	94	376	40	31	64	53	15
23	15	16	14	13	323	81	875	40	32	61	54	14
24	17	15	14	14	753	73	637	40	32	59	54	16
25	18	15	14	13	762	68	320	38	32	59	54	19
26	17	15	15	13	763	63	172	40	32	59	55	18
27	17	15	17	13	813	90	102	40	33	61	58	15
28	17	14	25	14	1,300	104	32	41	32	60	45	13
29	17	15	16	15	---	89	31	44	33	62	24	13
30	17	15	14	14	---	91	31	43	35	61	26	12
31	17	---	14	14	---	98	---	43	---	61	23	---
<b>Total</b>	469	509	474	404	12,030	12,879	4,178	1,167	1,030	1,942	1,629	434
<b>Mean</b>	15.1	17.0	15.3	13.0	430	415	139	37.6	34.3	62.6	52.5	14.5
<b>Max</b>	21	26	25	15	1,300	1,360	875	44	44	70	63	19
<b>Min</b>	12	14	14	11	13	13	31	33	31	34	23	11
<b>Ac-ft</b>	930	1,010	940	801	23,860	25,550	8,290	2,310	2,040	3,850	3,230	861

**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
<b>Mean</b>	92.8	184	565	826	1,240	1,033	770	306	79.0	12.6	16.7	18.4
<b>Max</b>	1,348	1,980	3,501	3,004	3,360	2,918	2,553	939	245	55.4	148	215
<b>(WY)</b>	(1963)	(1951)	(1956)	(1956)	(1936)	(1938)	(1958)	(1942)	(1932)	(1952)	(1935)	(1935)
<b>Min</b>	2.05	9.14	21.3	68.0	156	192	11.3	.57	.71	.53	.65	.30
<b>(WY)</b>	(1961)	(1960)	(1960)	(1947)	(1933)	(1933)	(1959)	(1959)	(1959)	(1959)	(1939)	(1939)

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## 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 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	21.5	122	408	902	1,217	1,162	764	270	76.4	22.7	18.6	16.8
Max	263	1,606	2,668	3,954	5,201	3,845	3,796	1,035	484	77.9	55.8	73.2
(WY)	(1999)	(1984)	(1984)	(1997)	(1986)	(1983)	(1982)	(1983)	(1998)	(2005)	(2001)	(1998)
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 2006	Water Year 2007	Water Years 1966 - 2007
Annual total	306,317	37,145	
Annual mean	839	102	413
Highest annual mean			1,191
Lowest annual mean			3.42
Highest daily mean	9,790	Apr 4	1,360
Lowest daily mean	12	Oct 2	11
Annual seven-day minimum	13	Oct 6	12
Maximum peak flow			1,410
Maximum peak stage			4.64
Annual runoff (ac-ft)	607,600	73,680	298,900
10 percent exceeds	2,730	225	1,210
50 percent exceeds	36	32	24
90 percent exceeds	15	13	9.4

11424000 Bear River near Wheatland, CA—Continued

