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, 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^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to current year.
CHEMICAL DATA: Water years 1953-80, 1999-2000.
SEDIMENT DATA: Water year 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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,000 ft^3/s, Feb. 17, 1986, gage height, 21.60 ft, maximum gage height, 23.72 ft, Jan. 2, 1997; no flow at times.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	13	10	12	47	600	978	1,610	116	383	181	18	22
2	14	11	11	52	585	1,670	1,510	241	356	186	31	23
3	13	12	11	61	554	1,740	1,430	286	320	201	21	21
4	13	12	11	26	580	1,300	1,390	245	285	206	19	22
5	16	11	11	19	566	1,200	1,370	222	279	188	20	22
6	13	11	11	17	550	1,120	1,270	312	267	177	64	22
7	12	11	13	23	537	1,020	1,210	394	144	176	27	20
8	15	11	47	25	537	947	1,270	396	250	176	27	19
9	11	11	22	23	532	897	1,650	842	250	179	24	20
10	10	13	15	19	527	822	1,460	1,320	279	179	24	19
11	9.3	14	13	80	520	716	1,300	1,170	322	141	24	18
12	11	12	12	34	513	678	1,170	969	311	24	22	17
13	12	12	12	20	515	670	1,060	809	275	21	22	17
14	11	12	12	16	526	746	961	681	254	21	23	17
15	11	12	11	35	541	894	864	621	268	21	23	17
16	11	12	11	36	598	953	824	632	284	22	23	16
17	12	12	11	32	686	845	862	725	307	23	24	16
18	12	12	11	35	696	775	670	842	328	22	24	16
19	14	12	11	47	675	773	719	3,090	340	20	24	15
20	14	12	11	105	1,150	771	718	4,050	252	20	25	16
21	12	12	11	32	1,520	771	704	2,440	129	19	26	16
22	12	12	11	16	1,720	1,130	692	1,720	306	19	25	15
23	13	12	11	12	1,360	4,400	691	1,350	298	18	23	15
24	13	12	12	45	1,030	3,920	709	1,110	263	21	23	15
25	13	12	12	21	837	2,630	683	927	251	21	23	17
26	16	12	12	253	735	2,120	653	783	249	22	24	17
27	12	20	12	701	687	1,760	600	634	246	23	26	14
28	12	14	15	85	970	1,850	543	545	220	21	27	14
29	11	13	20	17	---	1,990	507	486	192	29	23	15
30	11	12	41	218	---	2,070	241	431	185	20	19	14
31	11	---	49	537	---	1,850	---	410	---	19	20	---
Total	383.3	366	485	2,689	20,847	44,006	29,341	28,799	8,093	2,416	768	527
Mean	12.4	12.2	15.6	86.7	745	1,420	978	929	270	77.9	24.8	17.6
Max	16	20	49	701	1,720	4,400	1,650	4,050	383	206	64	23
Min	9.3	10	11	12	513	670	241	116	129	18	18	14
Ac-ft	760	726	962	5,330	41,350	87,290	58,200	57,120	16,050	4,790	1,520	1,050

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)

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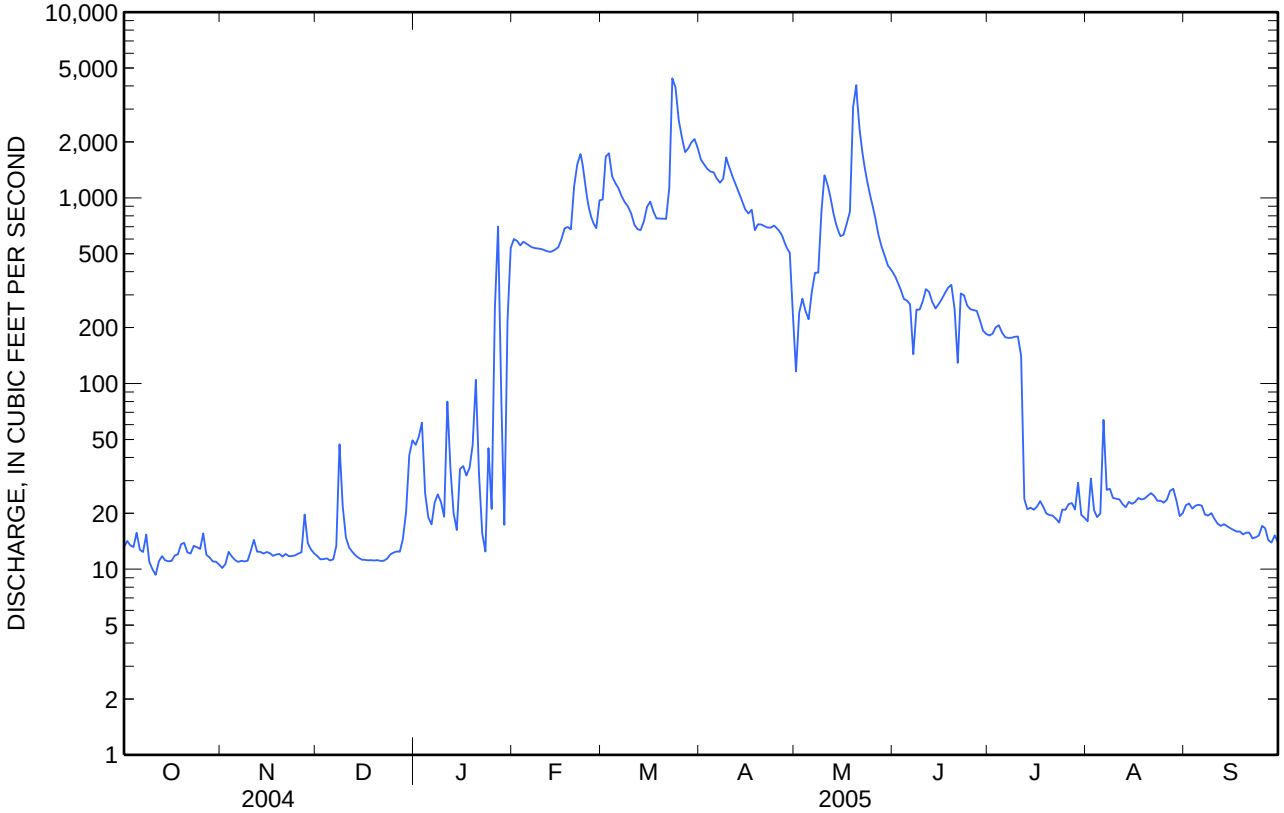
SUMMARY STATISTICS

	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 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	21.8	127	404	896	1,228	1,147	720	268	75.0	21.8	17.8	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 2004		Water Year 2005		Water Years 1966 - 2005	
Annual total	89,322.3		138,720.3			
Annual mean	244		380		408	
Highest annual mean					1,191	1983
Lowest annual mean					3.42	1977
Highest daily mean	3,130	Feb 27	4,400	Mar 23	35,900	Feb 17, 1986
Lowest daily mean	9.3	Oct 11	9.3	Oct 11	0.00	Oct 14, 1976
Annual seven-day minimum	11	Oct 9	11	Oct 9	0.00	Oct 29, 1976
Maximum peak flow			6,350	Mar 23	48,000	Feb 17, 1986
Maximum peak stage			10.18	Mar 23	23.72	Jan 2, 1997
Annual runoff (ac-ft)	177,200		275,200		295,300	
10 percent exceeds	907		1,140		1,190	
50 percent exceeds	19		32		23	
90 percent exceeds	11		12		9.0	

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