

## 11399500 North Fork Feather River near Prattville, CA

Sacramento River Basin

LOCATION.--Lat 40°10'06", long 121°05'31" referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.28, T.27 N., R.8 E., Plumas County, CA, Hydrologic Unit 18020121, in Plumas National Forest, on left bank, 0.4 mi downstream from Almanor Dam, 4.5 mi southeast of Prattville, and 9 mi upstream from Butt Creek.

DRAINAGE AREA.--493 mi<sup>2</sup>.

### SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1905 to current year. Published as "below Prattville" prior to 1911. No record for January, February, or March 1911. Estimated mean discharge for water year 1911 published in WSP 1315-A.

REVISED RECORDS.--WSP 1245: 1951 (yearly summaries). WSP 1285: 1952 (yearly summaries). WDR CA-88-4: 1987 (monthly and yearly totals for Butt Valley Powerplant).

GAGE.--Water-stage recorder and broad-crested weir. Datum of gage is 4,390.09 ft above NGVD of 1929. Prior to Oct. 1, 1936, nonrecording gages or water-stage recorders at several sites within 0.5 mi of present site at various datums.

COOPERATION.--Records, including diversion to Butt Valley Powerplant (station 11400600), were collected by Pacific Gas and Electric Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2105.

REMARKS.--Flow regulated since 1913 by Lake Almanor (station 11399000) 0.5 mi upstream and since 1924 by Mountain Meadows Reservoir, capacity, 24,000 acre-ft, 12 mi upstream on Hamilton Branch. Water diverted from Lake Almanor to Butt Valley Reservoir (station 11401050) through old Almanor-Butt Creek Tunnel from May 1921 to December 1958, for use at Caribou Powerplant. Old tunnel closed Dec. 30, 1958, and diversion began Dec. 31, 1958, to Butt Valley Powerplant at upstream end of Butt Valley Reservoir. See schematic diagram of North Fork Feather River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,000 ft<sup>3</sup>/s, Mar. 19, 1907, before construction of dam, gage height, 16.2 ft, at former site, from rating curve extended above 3,700 ft<sup>3</sup>/s; no flow at times during 1914, 1919, 1923.

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**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	43	42	43	43	43	42	43	43	44	43	44	43
2	43	42	44	43	43	42	43	43	44	43	44	43
3	43	42	43	43	43	42	42	43	44	43	44	43
4	43	42	43	43	43	42	42	43	44	43	44	43
5	43	42	43	43	43	42	42	43	44	43	44	44
6	43	43	43	43	43	43	42	43	44	43	44	44
7	43	43	43	43	43	43	42	43	44	43	44	44
8	43	43	43	43	43	43	42	43	44	43	44	44
9	43	43	43	43	43	43	42	43	44	43	44	44
10	43	43	43	43	43	42	42	43	44	43	44	44
11	43	43	43	43	43	42	42	43	44	43	44	44
12	42	43	43	43	43	42	43	43	43	43	44	44
13	42	43	43	43	43	43	43	43	44	43	43	44
14	42	43	43	42	43	43	43	43	44	43	43	44
15	42	42	43	42	43	43	43	43	43	43	43	44
16	42	42	43	42	43	43	43	43	43	43	43	44
17	42	43	43	42	43	43	43	43	43	44	43	44
18	42	43	43	43	43	43	43	43	43	50	43	44
19	42	42	43	43	43	43	43	43	43	49	43	44
20	42	42	43	43	43	43	43	43	43	51	43	44
21	42	42	43	43	43	43	43	43	43	55	43	44
22	42	42	43	43	43	43	43	43	43	44	43	44
23	42	42	43	43	42	43	43	43	43	45	43	44
24	42	42	43	43	42	43	43	44	43	45	43	44
25	42	42	43	43	42	43	43	44	43	44	43	44
26	42	42	43	43	42	43	43	44	43	44	43	44
27	42	42	43	43	42	43	43	44	43	44	43	44
28	42	42	43	43	42	43	43	44	43	44	43	44
29	42	42	43	43	---	43	43	44	43	44	43	44
30	42	43	43	43	---	43	43	44	43	44	43	44
31	42	---	43	43	---	44	---	44	---	44	43	---
<b>Total</b>	1,313	1,272	1,334	1,329	1,198	1,326	1,281	1,341	1,303	1,379	1,345	1,316
<b>Mean</b>	42.4	42.4	43.0	42.9	42.8	42.8	42.7	43.3	43.4	44.5	43.4	43.9
<b>Max</b>	43	43	44	43	43	44	43	44	44	55	44	44
<b>Min</b>	42	42	43	42	42	42	42	43	43	43	43	43
<b>Ac-ft</b>	2,600	2,520	2,650	2,640	2,380	2,630	2,540	2,660	2,580	2,740	2,670	2,610
<b>Diversion, in acre-feet, to Butt Valley Powerplant</b>	86,100	65,810	45,000	78,590	46,230	16,020	19,780	40,010	56,680	82,050	81,740	31,900

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1958, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	498	393	371	282	349	272	318	327	349	479	602	569
<b>Max</b>	1,607	1,414	1,418	1,489	2,124	1,609	1,852	2,206	1,065	1,280	1,755	1,762
<b>(WY)</b>	(1931)	(1931)	(1938)	(1946)	(1938)	(1929)	(1938)	(1938)	(1935)	(1929)	(1929)	(1929)
<b>Min</b>	3.80	3.32	3.41	3.20	3.20	3.61	2.63	2.02	2.11	8.02	3.72	3.16
<b>(WY)</b>	(1942)	(1940)	(1937)	(1944)	(1944)	(1944)	(1939)	(1939)	(1939)	(1943)	(1937)	(1937)

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## SUMMARY STATISTICS

Water Years 1925 - 1958		
Annual mean	401	
Highest annual mean	1,061	1929
Lowest annual mean	27.1	1937
Highest daily mean	2,670	May 17, 1942
Lowest daily mean	.50	Apr 28, 1949
Annual seven-day minimum	.87	Apr 25, 1949
Maximum peak flow	2,710	May 22, 1941
Maximum peak stage	6.95	May 22, 1941
Annual runoff (ac-ft)	290,600	
10 percent exceeds	1,060	
50 percent exceeds	60	
90 percent exceeds	4.4	

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	45.3	43.1	34.4	69.8	68.5	37.8	41.6	57.4	69.4	57.6	56.8	43.1
Max	510	546	59.6	1,901	1,800	163	293	568	660	688	596	415
(WY)	(1997)	(1997)	(1997)	(1997)	(1997)	(1997)	(1983)	(2006)	(1996)	(1996)	(1996)	(1996)
Min	17.3	8.65	7.47	8.67	10.0	9.90	10.1	15.7	16.0	15.4	14.9	15.0
(WY)	(1978)	(1960)	(1960)	(1960)	(1962)	(1964)	(1964)	(1977)	(1977)	(1977)	(1977)	(1977)

## SUMMARY STATISTICS

	Calendar Year 2012	Water Year 2013	Water Years 1960 - 2013
Annual total	19,708	15,737	
Annual mean	53.8	43.1	52.0
Highest annual mean			459
Lowest annual mean			22.3
Highest daily mean	368	Aug 6	55
Lowest daily mean	41	Jan 1	42
Annual seven-day minimum	41	Jan 1	42
Maximum peak flow			96
Maximum peak stage			3.04
Annual runoff (ac-ft)	39,090	31,210	37,640
Annual diversion (ac-ft) <sup>a</sup>	433,700	649,900	
10 percent exceeds	43	44	41
50 percent exceeds	42	43	37
90 percent exceeds	41	42	34

<sup>a</sup> Diversion, in acre-feet, to Butt Valley Powerplant (station 11400600).

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