



## 1999 California Hydrologic Data Report

11427760 MIDDLE FORK AMERICAN RIVER ABOVE MIDDLE FORK POWERPLANT, NEAR FORESTHILL, CA

LOCATION.-Lat 39°01'31", long 120°35'40", in NW 1/4 NW 1/4 sec.36, T.14 N., R.12 E., Placer County, Hydrologic Unit 18020128, Tahoe National Forest, on right bank, 300 ft upstream from Middle Fork Powerplant, 3.7 mi upstream from Big Mosquito Creek, and 11 mi east of Foresthill.

DRAINAGE AREA.-87.8 mi<sup>2</sup>.

PERIOD OF RECORD.-August 1965 to current year.

GAGE.-Water-stage recorder. Elevation of gage is 2,540 ft above sea level, from topographic map. Prior to May 15, 1980, at datum 5.00 ft higher. May 15, 1980, to Oct. 11, 1984, at datum 4.00 ft higher.

REMARKS.-Considerable regulation by French Meadows Reservoir (station 11427400) 11 mi upstream. Transbasin diversions from French Meadows Reservoir to Hell Hole Reservoir (station 11428700) through French Meadows Powerplant (station 11427200). See schematic diagram of Middle Fork American and Rubicon River Basins.

COOPERATION.-Records provided by Placer County Water Agency, under general supervision of the U.S. Geological Survey, in connection with a Federal Energy Regulatory Commission project.

EXTREMES FOR PERIOD OF RECORD.-Maximum discharge, 13,900 ft<sup>3</sup>/s, Jan. 2, 1997, gage height, 14.6 ft, from floodmark, from rating curve extended above 4,200 ft<sup>3</sup>/s; minimum daily, 5.3 ft<sup>3</sup>/s, Sept. 11, 1977.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

### DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	26	116	48	123	417	149	637	248	45	24	18
2	22	25	85	48	117	345	143	646	90	44	24	18
3	22	22	188	47	113	442	141	662	88	43	24	18
4	21	21	129	46	114	384	134	645	83	43	24	18
5	21	22	92	46	111	329	140	642	81	43	24	18
6	21	22	80	45	117	294	134	650	77	41	24	18
7	21	37	70	45	481	264	128	656	74	39	23	18
8	21	35	70	44	552	245	136	651	72	38	23	18
9	21	25	65	43	963	235	126	638	70	37	23	18
10	21	24	61	42	529	210	122	627	68	36	24	19
11	21	29	60	42	386	197	132	625	67	35	23	19
12	20	25	59	42	322	186	140	628	65	33	22	19
13	20	24	61	41	276	180	154	623	63	33	22	18

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14	21	24	63	41	247	176	181	615	62	33	21	18
15	21	24	61	51	221	169	195	608	60	32	21	18
16	20	24	64	89	246	166	209	598	59	31	21	18
17	20	35	67	102	535	167	233	594	57	31	21	18
18	20	30	66	305	401	169	249	593	56	30	20	18
19	20	26	63	384	350	173	260	590	55	29	19	18
20	20	25	63	753	312	177	264	480	54	29	19	18
21	20	24	57	447	289	172	258	376	53	28	19	19
22	20	44	57	290	257	165	245	376	52	28	19	18
23	20	66	54	445	240	163	228	377	51	27	19	18
24	24	107	55	308	225	161	221	390	50	27	19	18
25	27	50	54	248	239	159	219	447	49	27	18	18
26	23	43	53	212	214	164	231	435	48	27	18	18
27	22	43	52	182	207	169	224	422	47	26	20	18
28	21	46	51	163	231	165	206	400	47	25	19	18
29	22	68	50	148	---	160	190	376	46	25	19	17
30	22	177	50	138	---	160	388	362	45	24	18	17
31	21	---	50	134	---	161	---	358	---	23	19	---
TOTAL	659	1193	2166	5019	8418	6724	5780	16727	2037	1012	653	542
MEAN	21.3	39.8	69.9	162	301	217	193	540	67.9	32.6	21.1	18.1
MAX	27	177	188	753	963	442	388	662	248	45	24	19
MIN	20	21	50	41	111	159	122	358	45	23	18	17
AC-FT	1310	2370	4300	9960	16700	13340	11460	33180	4040	2010	1300	1080

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1999, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	27.6	47.3	91.5	181	176	213	181	186	100	37.2	19.6	17.4
MAX	270	262	446	781	969	696	601	600	451	184	33.2	29.5
(WY)	1966	1984	1997	1997	1986	1986	1982	1982	1995	1983	1983	1982
MIN	7.43	12.9	12.2	15.7	18.4	21.7	19.3	21.5	15.4	8.64	6.35	6.59
(WY)	1978	1978	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977

SUMMARY STATISTICS

FOR 1998 CALENDAR YEAR

FOR 1999 WATER YEAR

WATER YEARS 1966 - 1999

ANNUAL TOTAL	53566			50930			106			1982		
ANNUAL MEAN	147			140			14.3			1977		
HIGHEST ANNUAL MEAN							271			1982		
LOWEST ANNUAL MEAN							14.3			1977		
HIGHEST DAILY MEAN	1270	Mar 24		963	Feb 9		7600	Jan 2				
1997												
LOWEST DAILY MEAN	20	Sep 17		17	Sep 29		5.3	Sep 11				

1977							
ANNUAL SEVEN-DAY MINIMUM	20	Sep 17	18	Sep 24	5.5	Sep 8	
1977							
INSTANTANEOUS PEAK FLOW			1270	Feb 9	13900	Jan 2	
1997							
INSTANTANEOUS PEAK STAGE			8.07	Feb 9	14.60	Jan 2	
1997							
ANNUAL RUNOFF (AC-FT)	106200		101000		76820		
10 PERCENT EXCEEDS	322		389		257		
50 PERCENT EXCEEDS	85		54		39		
90 PERCENT EXCEEDS	21		19		15		

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