

Water-Data Report 2006

11433040 Pilot Creek below Mutton Canyon, near Georgetown, CA

Sacramento River Basin

LOCATION.--Lat 38°55'25", long 120°38'27" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.4, T.12 N., R.12 E., El Dorado County, Hydrologic Unit 18020128, Eldorado National Forest, on left bank, 450 ft downstream from Mutton Canyon, 500 ft downstream from Georgetown Divide Diversion Dam, 2.5 mi downstream from Stumpy Meadows Dam, and 10 mi east of Georgetown.

DRAINAGE AREA.--21.1 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1961 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 3,760 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. Flow regulated by Stumpy Meadows Lake 2.5 mi upstream, usable capacity, 20,000 acre-ft, completed in November 1961. Georgetown Irrigation District Ditch, capacity, about 60 ft³/s, diverts water out of Pilot Creek, 500 ft upstream from station. See schematic diagram of Middle Fork American and Rubicon River Basins.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,830 ft³/s, Jan. 2, 1997, gage height, 10.95 ft, from rating curve extended above 970 ft³/s, on basis of slope-area measurement at gage height 10.06 ft; minimum daily, 0.20 ft³/s, Sept. 24, Nov. 1-5, 1966.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4.2	4.3	29	866	93	194	150	384	38	7.1	5.7	3.7
2	4.2	4.3	25	800	158	169	132	343	36	7.0	5.4	3.7
3	4.2	4.4	7.3	477	162	154	435	307	35	7.0	5.3	3.7
4	4.1	5.9	6.1	311	172	122	1,020	271	33	6.9	5.2	3.5
5	4.0	4.9	5.7	226	166	108	780	247	32	6.8	5.1	3.5
6	4.1	4.7	5.5	181	140	126	505	223	29	6.9	5.0	3.4
7	4.1	4.5	5.3	160	123	127	401	200	26	6.8	5.0	3.3
8	4.0	4.7	5.4	134	111	103	421	185	25	6.8	5.1	3.3
9	4.0	4.5	5.3	114	103	102	353	168	23	6.7	5.0	3.2
10	4.1	4.5	5.1	100	95	103	369	152	22	6.6	4.9	3.2
11	4.2	4.5	5.1	100	89	96	411	140	21	6.6	4.8	3.2
12	4.2	4.5	4.9	91	82	85	471	128	21	6.5	4.8	3.2
13	4.2	4.3	4.9	84	77	79	466	116	20	6.4	4.8	3.8
14	4.1	4.3	4.9	111	73	94	479	105	20	6.4	4.7	4.2
15	4.3	4.3	4.9	98	68	77	540	96	19	6.4	4.6	4.2
16	4.2	4.3	4.8	70	64	70	723	88	18	6.3	4.6	4.2
17	3.9	4.3	4.7	65	61	87	572	80	17	6.2	4.7	4.2
18	4.2	4.3	19	115	65	70	451	73	16	6.2	4.6	4.0
19	4.4	4.2	16	88	60	63	386	67	15	6.1	4.5	3.8
20	4.3	4.2	7.7	69	56	63	354	68	14	6.1	4.5	3.7
21	4.3	4.2	15	63	52	64	349	72	13	6.1	4.4	3.7
22	4.3	4.2	57	64	50	56	379	84	12	6.1	4.3	3.6
23	4.3	4.2	32	57	48	55	363	68	11	6.1	4.3	3.5
24	4.2	4.2	18	55	47	56	347	58	10	6.1	4.3	3.4
25	4.3	5.6	24	52	45	151	352	54	9.8	6.0	4.2	3.4
26	4.7	5.2	54	59	48	140	362	50	9.2	5.9	4.2	3.3
27	5.2	4.5	35	56	125	123	395	49	8.4	5.9	4.2	3.4
28	4.7	4.5	78	58	366	147	407	48	7.9	5.8	4.0	3.4
29	4.7	11	233	75	---	149	420	44	7.3	5.8	4.0	3.3
30	4.6	6.8	402	80	---	136	420	42	7.1	5.8	3.8	3.2
31	4.5	---	2,510	96	---	151	---	40	---	5.8	3.8	---
Total	132.8	144.3	3,634.6	4,975	2,799	3,320	13,213	4,050	575.7	197.2	143.8	107.2
Mean	4.28	4.81	117	160	100	107	440	131	19.2	6.36	4.64	3.57
Max	5.2	11	2,510	866	366	194	1,020	384	38	7.1	5.7	4.2
Min	3.9	4.2	4.7	52	45	55	132	40	7.1	5.8	3.8	3.2
Ac-ft	263	286	7,210	9,870	5,550	6,590	26,210	8,030	1,140	391	285	213

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3.10	5.61	29.2	59.4	75.1	75.4	75.7	40.8	9.84	4.35	3.45	3.06
Max	7.19	28.6	340	621	585	370	440	171	54.4	15.6	13.4	8.54
(WY)	(1963)	(1984)	(1965)	(1997)	(1986)	(1983)	(2006)	(1995)	(1967)	(1983)	(1983)	(1983)
Min	0.46	0.46	0.54	0.53	0.89	1.21	0.98	1.12	0.66	0.45	0.38	0.37
(WY)	(1962)	(1962)	(1962)	(1962)	(1991)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)

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SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1961 - 2006	
Annual total	16,467.2		33,292.6			
Annual mean	45.1		91.2		31.9	
Highest annual mean					109	1983
Lowest annual mean					0.84	1977
Highest daily mean	2,510	Dec 31	2,510	Dec 31	5,210	Jan 2, 1997
Lowest daily mean	3.8	Aug 21	3.2	Sep 9	0.20	Sep 24, 1966
Annual seven-day minimum	3.9	Aug 18	3.3	Sep 6	0.23	Oct 30, 1966
Maximum peak flow			3,740	Dec 31	7,830	Jan 2, 1997
Maximum peak stage			9.43	Dec 31	10.95	Jan 2, 1997
Annual runoff (ac-ft)	32,660		66,040		23,090	
10 percent exceeds	119		324		87	
50 percent exceeds	7.4		16		4.5	
90 percent exceeds	4.1		4.1		1.3	

