11469000 MATTOLE RIVER NEAR PETROLIA, CA

Mattole River Basin

LOCATION.--Lat 40°18′48″, long 124°16′56″ referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.10, T.2 S., R.2 W., Humboldt County, Hydrologic Unit 18010107, in Humboldt meridian, on downstream side of bridge, on left bank, 0.2 mi downstream from Mill Creek, 0.5 mi southeast from Petrolia Post Office, 0.6 mi upstream from North Fork, 0.8 mi south of Petrolia, and 20.6 mi south of town of Fernbridge.

DRAINAGE AREA.--245 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1911 to December 1913, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.
CHEMICAL ANALYSES: Water years 1959-79.
WATER TEMPERATURE: Water years 1966-78, 2001-03 (storm season only).
SEDIMENT DATA: Water years 2001-03 (storm season only).

REVISED RECORDS.--WSP 1285: 1912-13. WSP 1929: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 49.41 ft above NGVD of 1929. November 1911 to December 1913, nonrecording gages at several sites upstream within 0.3 mi of present site at various datums. Dec. 11, 1950, to July 14, 1955, at site 0.3 mi upstream at datum 7.48 ft higher. July 15, 1955, to Oct. 26, 1967, at site 0.4 mi downstream at different datum. Oct. 27, 1967, to Oct. 30, 1996, at site 1.1 mi upstream at datum 7.00 ft higher.

REMARKS.--Records fair. Diversions for irrigation of about 350 acres upstream from station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,400 ft^3/s, Dec. 22, 1955, gage height, 36.60 ft, site and datum then in use, from rating curve extended above 26,000 ft^3/s, on basis of slope-area measurement of peak flow; minimum daily, 14 ft^3/s, Sept. 26-30, and several days in October 2002.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 08	0845	*19,400	*21.36
No other peak greater than base discharge			

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	21	126	88	5,630	1,720	1,860	2,590	472	617	493	140	62
2	21	111	81	4,860	1,460	2,240	2,100	424	571	444	134	61
3	21	108	76	3,790	1,300	1,860	3,420	380	520	401	130	61
4	21	103	73	e2,940	1,140	1,610	3,800	369	466	372	125	60
5	21	99	75	2,110	1,030	1,310	2,540	536	424	368	120	59
6	21	95	1,390	1,720	884	1,190	2,090	428	396	375	116	58
7	21	92	5,000	2,960	744	1,020	2,840	347	375	388	113	57
8	23	87	13,000	3,760	706	870	3,980	744	439	399	110	57
9	34	85	5,060	3,640	594	762	6,420	1,780	567	390	106	55
10	34	96	2,550	3,530	549	694	4,670	1,800	388	371	102	53
11	31	105	1,820	3,510	481	651	3,740	1,190	288	352	97	53
12	29	98	1,490	2,800	395	614	3,150	926	244	332	93	53
13	27	94	1,490	2,250	399	582	2,770	783	210	315	90	52
14	24	89	1,760	1,960	630	552	2,410	680	187	298	89	50
15	23	86	1,550	1,690	492	523	1,990	619	168	285	88	49
16	23	85	1,370	1,460	408	500	1,680	608	203	271	88	49
17	30	85	1,220	1,320	402	475	1,440	554	2,170	256	85	49
18	74	80	1,110	1,230	375	445	1,180	7,260	9,110	245	82	49
19	712	75	1,010	1,110	429	1,510	990	6,300	7,570	233	82	49
20	543	72	936	957	2,450	3,790	986	3,880	3,930	227	82	47
21	245	69	884	855	2,450	4,900	1,130	2,950	2,590	216	80	46
22	150	66	832	775	1,620	6,300	1,130	2,340	1,830	209	78	45
23	266	64	792	693	1,310	6,020	1,030	1,940	1,300	203	74	44
24	401	63	755	633	1,180	4,150	936	1,640	1,120	189	72	44
25	243	73	710	720	1,030	3,140	838	1,420	940	180	71	44
26	939	88	998	1,540	886	2,210	750	1,200	874	174	69	44
27	513	104	1,930	e1,430	1,180	2,780	680	1,010	757	167	69	43
28	307	110	2,670	4,000	2,230	4,490	624	856	680	160	69	42
29	218	100	2,260	3,100	---	5,990	553	759	644	155	65	42
30	176	93	3,740	2,340	---	5,100	492	657	563	149	63	41
31	147	---	5,370	2,020	---	3,640	---	635	---	145	62	---
Total	5,359	2,701	62,090	71,333	28,474	71,778	62,949	45,487	40,141	8,762	2,844	1,518
Mean	173	90.0	2,003	2,301	1,017	2,315	2,098	1,467	1,338	283	91.7	50.6
Max	939	126	13,000	5,630	2,450	6,300	6,420	7,260	9,110	493	140	62
Min	21	63	73	633	375	445	492	347	168	145	62	41
Ac-ft	10,630	5,360	123,200	141,500	56,480	142,400	124,900	90,220	79,620	17,380	5,640	3,010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	212	1,330	2,954	3,586	3,079	2,247	1,217	559	227	84.7	49.7	57.1
Max	1,900	7,159	8,340	8,928	10,710	7,929	5,225	1,842	1,338	283	164	237
(WY)	(1951)	(1974)	(1956)	(1970)	(1958)	(1983)	(1963)	(1960)	(2005)	(2005)	(1983)	(1977)
Min	16.2	41.8	39.7	135	243	187	166	151	68.9	31.3	22.9	17.1
(WY)	(2003)	(1960)	(1977)	(1977)	(1977)	(1988)	(1988)	(1970)	(1977)	(1977)	(1977)	(2002)

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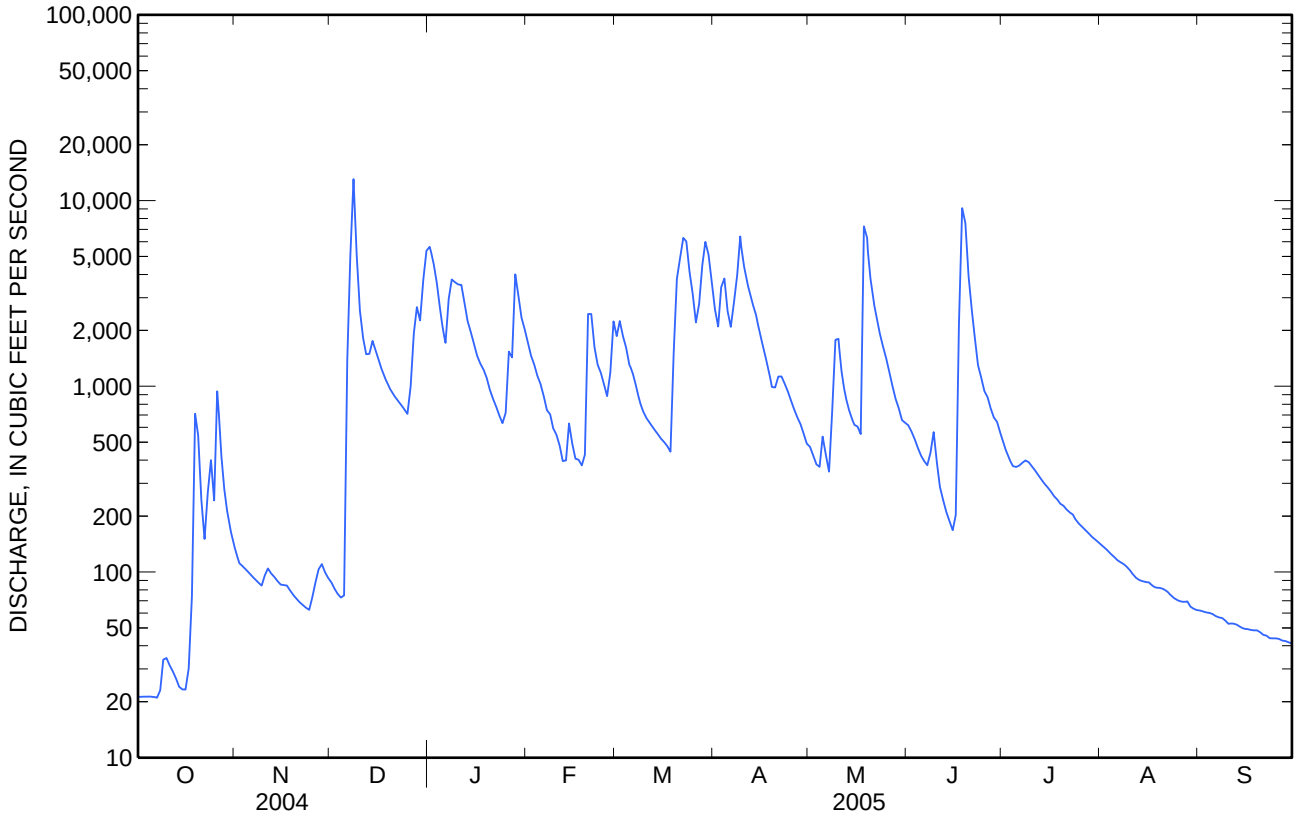
SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1912 - 2005	
Annual total	364,804		403,436			
Annual mean	997		1,105		1,293	
Highest annual mean					2,642	1983
Lowest annual mean					157	1977
Highest daily mean	21,600	Feb 17	13,000	Dec 8	55,200	Dec 22, 1964
Lowest daily mean	18	Sep 10	21	Oct 1	14	Sep 26, 2002
Annual seven-day minimum	18	Sep 10	21	Oct 1	14	Sep 26, 2002
Maximum peak flow			19,400	Dec 8	90,400	Dec 22, 1955
Maximum peak stage			21.36	Dec 8	36.60	Dec 22, 1955
Annual runoff (ac-ft)	723,600		800,200		937,000	
10 percent exceeds	2,740		3,120		3,380	
50 percent exceeds	188		493		274	
90 percent exceeds	23		53		35