



Water-Data Report 2009

11476500 South Fork Eel River near Miranda, CA

Eel River Basin

LOCATION.--Lat 40°10'55", long 123°46'30" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.30, T.3 S., R.4 E., Humboldt County, CA, Hydrologic Unit 18010106, on right bank, 0.5 mi upstream from Rocky Glen Creek, 2 mi south of Phillipsville, 4.3 mi southeast of Miranda, and 20 mi upstream from mouth.

DRAINAGE AREA.--537 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

WATER TEMPERATURE: Water years 1960-83.

SEDIMENT DATA: Water year 1981.

REVISED RECORDS.--WSP 1395: Drainage area. WSP 2129: 1955.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 217.57 ft above NGVD of 1929. Prior to Nov. 2, 1940, nonrecording gage at site 200 ft upstream at datum 0.8 ft higher. Nov. 2, 1940, to Oct. 31, 1944, nonrecording gage at present site and datum.

REMARKS.--Records fair. Occasional storage and release for recreational use during summer months at Benbow Reservoir, capacity, 1,060 acre-ft, 16 mi upstream. No diversion upstream from station. See schematic diagram of Eel River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 199,000 ft³/s, Dec. 22, 1964, gage height, 46.0 ft, from floodmarks, and from rating curve extended above 53,000 ft³/s, on basis of slope-area measurement at gage height 42.7 ft; minimum daily, 10 ft³/s, Aug. 30, 1964.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 15,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 24	0200	15,000	15.75
May 5	0845	*16,100	*16.11

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	12	102	70	1,750	219	2,800	1,000	295	341	117	45	24
2	18	689	69	2,460	209	7,440	941	506	332	113	44	25
3	36	900	68	2,900	202	9,060	882	935	324	109	44	27
4	122	1,120	67	1,970	196	8,510	816	1,790	325	106	44	26
5	169	744	66	1,730	208	5,820	759	11,000	318	102	45	26
6	137	435	65	1,660	536	4,130	708	5,060	310	100	46	25
7	88	337	64	1,380	728	3,100	670	3,360	295	101	47	25
8	64	273	62	1,230	513	2,470	673	2,390	281	99	48	25
9	51	365	61	1,110	462	2,060	691	1,930	267	96	47	24
10	43	374	61	978	452	1,770	750	1,640	261	94	45	24
11	38	280	60	869	1,210	1,580	679	1,440	254	92	42	24
12	35	228	60	778	2,020	1,420	595	1,290	245	90	41	23
13	33	192	65	698	2,610	1,290	546	1,170	236	88	38	23
14	32	164	72	626	3,420	1,180	510	1,060	229	84	36	25
15	31	143	113	567	3,660	1,230	484	972	224	81	34	29
16	30	127	149	517	4,400	3,900	461	887	217	77	32	32
17	29	115	149	471	3,980	4,990	439	810	209	73	32	32
18	29	105	182	434	2,920	3,330	421	743	198	68	31	30
19	29	98	483	403	2,210	2,520	403	687	188	65	30	30
20	29	96	741	376	1,800	2,070	385	638	181	61	29	29
21	28	97	928	354	1,550	1,870	366	598	178	59	28	28
22	28	97	2,920	347	5,060	2,770	350	561	172	57	27	26
23	28	92	1,590	335	11,700	2,600	333	529	166	56	27	25
24	28	88	1,810	324	11,800	2,160	320	500	159	55	26	24
25	28	84	6,430	309	6,310	1,890	311	473	151	54	26	22
26	28	82	3,130	294	6,100	1,700	302	447	145	53	26	21
27	28	79	1,890	275	4,450	1,530	295	422	141	52	26	21
28	28	76	3,870	258	3,310	1,390	290	401	134	49	25	20
29	28	74	5,290	245	---	1,270	282	380	126	47	24	19
30	28	72	3,750	237	---	1,170	274	362	121	45	24	18
31	40	---	2,440	228	---	1,080	---	350	---	45	24	---
Total	1,375	7,728	36,775	26,113	82,235	90,100	15,936	43,626	6,728	2,388	1,083	752
Mean	44.4	258	1,186	842	2,937	2,906	531	1,407	224	77.0	34.9	25.1
Max	169	1,120	6,430	2,900	11,800	9,060	1,000	11,000	341	117	48	32
Min	12	72	60	228	196	1,080	274	295	121	45	24	18
Ac-ft	2,730	15,330	72,940	51,800	163,100	178,700	31,610	86,530	13,340	4,740	2,150	1,490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	237	1,332	4,130	5,256	4,740	3,500	1,824	724	304	111	58.4	56.7
Max	3,332	10,130	17,260	17,530	16,640	13,000	8,425	2,580	1,754	361	131	221
(WY)	(1963)	(1974)	(1965)	(1970)	(1986)	(1983)	(1982)	(2005)	(1993)	(2005)	(1983)	(1986)
Min	17.3	25.0	74.6	207	284	304	176	122	52.7	20.4	18.0	13.5
(WY)	(2003)	(1940)	(1977)	(1977)	(1977)	(1988)	(1977)	(1977)	(1977)	(1977)	(1977)	(2008)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1940 - 2009	
Annual total	389,739		314,839			
Annual mean	1,065		863		1,845	
Highest annual mean					4,393	1983
Lowest annual mean					156	1977
Highest daily mean	23,100	Feb 3	11,800	Feb 24	161,000	Dec 22, 1964
Lowest daily mean	11	Sep 30	12	Oct 1	10	Aug 30, 1964
Annual seven-day minimum	12	Sep 10	21	Sep 24	12	Sep 10, 2008
Maximum peak flow			16,100	May 5	199,000	Dec 22, 1964
Maximum peak stage			16.11	May 5	46.00	Dec 22, 1964
Annual runoff (ac-ft)	773,000		624,500		1,337,000	
10 percent exceeds	2,600		2,490		4,830	
50 percent exceeds	146		228		339	
90 percent exceeds	17		28		42	

