

11475000 Eel River at Fort Seward, CA

Eel River Basin

LOCATION.--Lat 40°13'06", long 123°37'53" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.8, T.3 S., R.5 E., Humboldt County, CA, Hydrologic Unit 18010105, Humboldt meridian, on right bank, downstream side of bridge, 1.0 mi southeast of Fort Seward, 1.9 mi upstream from Dobbyn Creek, and 11.8 mi northeast of Garberville.

DRAINAGE AREA.--2,107 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1955 to current year. Prior to October 1965, published as "at Alderpoint."

CHEMICAL ANALYSES: Water years 1972-75, 1977.

WATER TEMPERATURE: Water years 1961-79.

TURBIDITY: Water years 1966-68, 1971-73.

SEDIMENT DATA: Water years 1966-79.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 217.26 ft above NGVD of 1929. Prior to Dec. 22, 1964, at site 7.5 mi upstream at datum 46.55 ft higher. Feb. 2, to Sept. 30, 1965, at site 7.7 mi upstream at datum 49.42 ft higher.

REMARKS.--Records fair. Flow slightly regulated by Lake Pillsbury (station 11470000) 99 mi upstream and by diversion through Potter Valley Powerhouse Intake (station 11471000). See schematic diagram of Eel River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 561,000 ft³/s, Dec. 22, 1964, gage height, 82.6 ft, from floodmarks, present site and datum, 87.2 ft, from floodmarks, site and datum then in use, from rating curve extended above 110,000 ft³/s, on basis of slope-area measurement at gage height 72.5 ft; minimum daily, 1.2 ft³/s, Sept. 13, 1977.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 41,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 21	0815	49,500	25.06
Mar 28	0415	*60,700	*27.02

11475000 Eel River at Fort Seward, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	54	145	540	941	2,030	4,840	39,600	3,640	626	179	48	22
2	54	136	487	645	1,990	5,390	24,900	3,200	598	169	47	21
3	70	132	432	514	1,720	3,130	17,200	2,890	568	162	44	22
4	98	133	408	449	1,530	2,820	13,200	3,020	558	158	43	22
5	189	139	390	410	1,380	2,720	11,100	2,790	587	151	44	23
6	357	159	370	384	1,260	2,480	9,100	2,420	661	142	46	22
7	442	158	356	364	1,260	2,160	7,490	2,210	648	135	43	21
8	384	169	343	349	1,840	1,780	6,420	2,080	575	127	40	20
9	289	184	333	336	1,710	1,590	5,540	2,020	518	119	38	19
10	315	173	320	322	1,440	1,510	5,140	1,980	486	110	37	19
11	750	164	311	312	1,540	1,500	6,630	1,860	495	103	36	18
12	1,170	152	302	302	1,710	1,560	11,200	1,700	441	96	35	18
13	653	154	297	293	2,110	7,770	19,800	1,620	417	91	33	18
14	440	157	293	285	2,920	16,200	15,900	1,570	377	87	33	17
15	369	154	298	276	2,320	11,800	11,700	1,520	358	84	32	17
16	312	154	307	268	1,890	24,400	9,630	1,470	335	79	30	18
17	280	155	310	264	1,590	32,300	8,340	1,400	314	84	29	18
18	244	160	304	259	1,440	18,800	7,310	1,300	286	83	29	16
19	225	171	294	1,340	1,370	11,900	6,750	1,230	263	79	28	15
20	212	212	287	10,800	1,270	8,120	7,490	1,520	248	76	26	16
21	200	299	278	37,200	1,190	7,390	7,760	1,340	235	78	25	16
22	188	386	272	14,600	1,110	10,500	7,960	1,190	230	77	25	16
23	179	741	266	22,400	1,060	8,710	7,900	1,090	224	74	23	21
24	172	3,090	259	11,700	1,020	6,360	7,180	989	224	71	23	23
25	154	2,900	253	6,980	982	6,010	6,250	919	237	67	23	23
26	147	1,490	250	8,360	932	5,640	5,810	857	237	63	24	24
27	143	1,060	251	8,910	875	18,000	5,780	818	227	58	24	25
28	142	839	249	4,960	890	50,400	4,540	768	219	56	58	23
29	181	711	251	3,410	2,270	26,800	4,100	726	204	54	43	22
30	168	611	315	2,640	---	36,800	3,810	688	188	51	33	22
31	157	---	564	2,180	---	38,500	---	650	---	49	26	---
Total	8,738	15,288	10,190	142,453	44,649	377,880	305,530	51,475	11,584	3,012	1,068	597
Mean	282	510	329	4,595	1,540	12,190	10,180	1,660	386	97.2	34.5	19.9
Max	1,170	3,090	564	37,200	2,920	50,400	39,600	3,640	661	179	58	25
Min	54	132	249	259	875	1,500	3,810	650	188	49	23	15
Ac-ft	17,330	30,320	20,210	282,600	88,560	749,500	606,000	102,100	22,980	5,970	2,120	1,180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	345	2,490	8,917	12,570	12,030	9,804	5,575	2,549	758	154	53.6	50.0
Max	4,938	18,740	56,050	43,180	47,700	30,660	23,040	10,180	4,194	510	199	359
(WY)	(1963)	(1974)	(1965)	(1995)	(1986)	(1995)	(1982)	(2005)	(1993)	(1998)	(1983)	(1986)
Min	20.5	49.4	45.5	222	434	1,071	476	356	131	18.4	3.27	7.53
(WY)	(1965)	(1960)	(1977)	(1991)	(1977)	(1988)	(1977)	(1977)	(1977)	(1977)	(1977)	(2002)

11475000 Eel River at Fort Seward, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1955 - 2012	
Annual total	1,635,220		972,464			
Annual mean	4,480		2,657		4,578	
Highest annual mean					10,350	1983
Lowest annual mean					260	1977
Highest daily mean	51,300	Mar 16	50,400	Mar 28	434,000	Dec 22, 1964
Lowest daily mean	49	Sep 24	15	Sep 19	1.2	Sep 13, 1977
Annual seven-day minimum	51	Sep 21	16	Sep 16	1.4	Sep 7, 1977
Maximum peak flow			60,700	Mar 28	561,000	Dec 22, 1964
Maximum peak stage			27.02	Mar 28	82.60	Dec 22, 1964
Annual runoff (ac-ft)	3,243,000		1,929,000		3,316,000	
10 percent exceeds	13,200		7,760		11,900	
50 percent exceeds	1,000		340		748	
90 percent exceeds	71		25		35	

