



Water-Data Report 2010

11475800 South Fork Eel River at Leggett, CA

Eel River Basin

LOCATION.--Lat 39°52'29", long 123°43'10" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.3, T.23 N., R.17 W., Mendocino County, CA, Hydrologic Unit 18010106, Mt. Diablo Meridian, on right bank, near Standish Hickey State Park, 0.2 mi upstream from Rock Creek, and 0.7 mi northwest of Leggett.

DRAINAGE AREA.--248 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1965 to June 1995, October 1997 to April 1999 (seasonal records only). July 1995 to September 1997, October 2004 to June 2007 (stage only). October 1999 to September 2004, July 2007 to current year.

CHEMICAL ANALYSES: Water year 1977.

WATER TEMPERATURE: Water year 1966 to June 1979.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 684.72 ft above NGVD of 1929. Prior to July 29, 1988, at datum 8.60 ft higher. July 30, 1988, to July 28, 2003, at datum 6.60 ft higher. Datum lowered July 28, 2003 due to channel scour.

REMARKS.--Records good. No regulation or 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, 72,700 ft³/s, Jan. 4, 1966, gage height, 27.4 ft, from floodmarks, present datum, from rating curve extended above 21,000 ft³/s, on basis of slope-area measurement at gage height 28.13 ft; minimum daily, 7.3 ft³/s, Aug. 4-6, 12, 1977, Sept. 14, 2008.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1964, reached a stage of 28.13 ft, from floodmarks, present datum, discharge, 78,700 ft³/s, by slope-area measurement of peak flow.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 8,500 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 21	0715	9,000	15.42
Jan 25	2045	*11,100	*16.52

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	13	27	73	2,550	1,050	1,290	1,920	1,610	394	175	65	28
2	13	27	67	1,710	1,070	1,540	2,910	1,310	374	172	62	27
3	13	26	61	950	1,120	2,120	3,190	1,090	383	168	61	26
4	13	26	57	668	1,280	1,770	2,720	934	836	162	59	25
5	13	26	53	516	2,670	1,450	3,060	826	977	157	57	24
6	14	36	50	424	1,920	1,230	2,660	742	754	153	56	24
7	14	44	48	360	1,630	1,070	2,160	671	650	150	54	23
8	13	48	46	317	1,370	973	1,740	615	574	140	52	24
9	13	41	44	281	1,200	909	1,430	572	537	136	49	25
10	14	37	43	253	1,030	886	1,230	678	498	131	49	25
11	14	35	49	232	931	859	1,240	704	454	125	48	25
12	14	33	155	1,550	950	2,050	2,690	570	416	118	48	25
13	36	32	532	2,760	813	2,490	2,250	519	386	114	47	24
14	308	31	272	1,550	733	1,740	1,790	480	357	111	46	24
15	242	31	277	1,030	673	1,380	1,490	450	337	108	46	24
16	104	30	2,130	779	616	1,160	1,250	421	317	104	44	23
17	65	44	822	777	566	1,020	1,100	411	299	99	43	24
18	48	93	483	2,430	525	919	988	431	287	94	42	26
19	45	80	353	5,450	488	830	896	403	277	89	42	34
20	48	195	292	5,350	456	759	929	422	265	87	40	41
21	51	420	705	7,350	430	703	888	389	254	85	36	41
22	47	334	877	4,030	399	656	803	383	242	83	35	37
23	42	295	564	3,190	468	601	740	367	234	81	33	34
24	37	170	409	3,110	1,350	563	677	343	224	79	32	32
25	34	122	317	7,830	747	683	627	349	217	76	30	31
26	32	96	261	6,750	2,420	721	591	469	209	73	28	30
27	30	109	331	3,330	2,720	612	3,970	492	201	73	27	29
28	28	114	385	2,200	1,680	559	3,900	557	194	73	26	29
29	27	98	300	1,630	---	1,010	2,820	500	186	72	26	27
30	27	83	424	1,380	---	2,810	2,080	453	179	70	26	26
31	27	---	383	1,180	---	2,370	---	416	---	68	28	---
Total	1,439	2,783	10,863	71,917	31,305	37,733	54,739	18,577	11,512	3,426	1,337	837
Mean	46.4	92.8	350	2,320	1,118	1,217	1,825	599	384	111	43.1	27.9
Max	308	420	2,130	7,830	2,720	2,810	3,970	1,610	977	175	65	41
Min	13	26	43	232	399	559	591	343	179	68	26	23
Ac-ft	2,850	5,520	21,550	142,600	62,090	74,840	108,600	36,850	22,830	6,800	2,650	1,660

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	64.5	646	1,571	2,273	2,120	1,687	817	318	130	49.5	28.4	27.1
Max	272	4,050	6,072	7,278	7,294	5,515	3,528	1,140	630	129	65.4	87.8
(WY)	(1980)	(1974)	(1984)	(1970)	(1986)	(1983)	(1982)	(2003)	(1993)	(1993)	(1993)	(1986)
Min	12.3	40.2	32.9	98.1	137	147	78.4	59.5	26.7	9.96	9.67	10.2
(WY)	(2002)	(1994)	(1977)	(1977)	(1977)	(1988)	(1977)	(1977)	(1977)	(1977)	(1977)	(2008)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1966 - 2010	
Annual total	141,546		246,468			
Annual mean	388		675		774	
Highest annual mean					1,778	1983
Lowest annual mean					69.5	1977
Highest daily mean	5,810	May 5	7,830	Jan 25	49,800	Jan 4, 1966
Lowest daily mean	13	Sep 28	13	Oct 1	7.3	Aug 4, 1977
Annual seven-day minimum	13	Sep 28	13	Oct 1	7.5	Jul 31, 1977
Maximum peak flow			11,100	Jan 25	72,700	Jan 4, 1966
Maximum peak stage			16.52	Jan 25	27.40	Jan 4, 1966
Annual runoff (ac-ft)	280,800		488,900		560,900	
10 percent exceeds	1,070		1,840		1,990	
50 percent exceeds	125		299		138	
90 percent exceeds	16		27		21	

