

11478500 Van Duzen River near Bridgeville, CA

Eel River Basin

LOCATION.--Lat 40°28'50", long 123°53'23" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.12, T.1 N., R.2 E., Humboldt County, CA, Hydrologic Unit 18010105, Humboldt meridian, on left bank, downstream side of bridge on State Highway 36, 0.9 mi upstream from Grizzly Creek, 5 mi west of Bridgeville, and 18 mi east of Alton (junction of State Highway 36 and U.S. Highway 101).

DRAINAGE AREA.--222 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1950 to current year.

CHEMICAL DATA: Water years 1958-81.

WATER TEMPERATURE: Water years 1955-79.

TURBIDITY: Water years 1964-67.

SEDIMENT DATA: Water years 1955-67.

REVISED RECORDS.--WSP 1735: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 358.18 ft above NGVD of 1929. Prior to Oct. 1, 1965, at site 2.4 mi upstream at different datum.

REMARKS.--Records good. No storage or large 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, 48,700 ft³/s, Dec. 22, 1964, gage height, 24.0 ft, from floodmarks, present site and datum, from rating curve extended above 20,000 ft³/s, on basis of slope-area measurement at gage height 21.3 ft, former site and datum; minimum daily, 2.9 ft³/s, Sept. 30, 2009.

EXTREMES OUTSIDE PERIOD OF RECORD.--Peak of Jan. 21, 1943, had a discharge estimate of 22,900 ft³/s, based on method in WRI 77-21.

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)
Dec 2	0715	*31,900	*16.57

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5.7	60	7,050	818	603	344	585	148	63	41	7.2	4.7
2	5.5	98	19,200	730	549	331	454	137	59	37	7.3	4.7
3	5.5	70	5,120	674	513	334	392	130	56	33	7.3	4.5
4	5.4	52	3,850	624	484	331	789	124	53	31	7.2	4.5
5	5.4	42	6,950	607	467	366	1,670	118	49	28	7.2	4.6
6	5.4	37	3,020	587	453	1,960	1,270	115	47	26	6.8	4.6
7	5.5	33	1,730	567	498	1,430	1,150	131	44	25	6.4	4.7
8	5.8	35	1,280	619	499	1,060	1,700	123	41	23	6.1	4.8
9	6.3	42	1,030	761	448	920	1,200	112	39	21	6.1	4.7
10	6.7	45	850	916	415	850	954	105	37	20	6.1	4.5
11	7.0	42	741	802	393	836	826	99	36	18	6.0	4.3
12	7.5	38	819	718	367	900	734	93	35	17	6.0	4.1
13	7.9	38	674	639	346	864	644	88	35	16	5.9	3.9
14	8.5	51	586	571	336	803	556	84	34	15	5.8	3.8
15	8.5	72	558	525	333	726	502	81	34	15	5.6	3.9
16	10	59	800	528	328	646	464	80	32	13	5.5	3.9
17	11	60	4,120	593	323	569	422	80	31	13	5.2	4.1
18	11	341	2,030	642	311	509	350	77	30	12	5.1	4.3
19	11	229	1,340	630	333	471	315	74	30	12	5.0	4.4
20	10	2,280	3,150	602	329	772	296	71	30	11	5.1	5.5
21	9.4	3,160	6,060	574	324	1,110	278	69	30	11	5.2	14
22	17	1,040	7,960	560	316	742	262	71	29	10	5.1	35
23	29	548	6,130	1,030	381	601	244	68	29	9.9	5.1	36
24	44	361	4,060	2,630	347	520	225	66	33	9.3	4.9	27
25	49	270	2,740	1,510	319	471	207	64	37	8.9	5.1	22
26	36	217	3,590	1,570	302	435	194	63	52	8.6	5.1	19
27	28	180	2,320	1,250	291	409	181	72	108	8.2	5.0	16
28	25	503	1,660	1,040	316	408	171	98	82	7.6	5.1	14
29	27	4,390	1,330	880	---	380	163	93	59	7.3	5.0	17
30	28	11,600	1,100	761	---	368	156	77	48	7.3	4.7	792
31	32	---	944	674	---	446	---	68	---	7.3	4.8	---
Total	474.0	25,993	102,792	25,632	10,924	20,912	17,354	2,879	1,322	522.4	178.0	1,080.5
Mean	15.3	866	3,316	827	390	675	578	92.9	44.1	16.9	5.74	36.0
Max	49	11,600	19,200	2,630	603	1,960	1,700	148	108	41	7.3	792
Min	5.4	33	558	525	291	331	156	63	29	7.3	4.7	3.8
Ac-ft	940	51,560	203,900	50,840	21,670	41,480	34,420	5,710	2,620	1,040	353	2,140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	128	786	1,916	2,165	1,942	1,629	962	457	148	37.4	16.1	17.6
Max	1,464	5,476	6,046	6,608	6,232	5,015	3,255	1,394	821	117	82.4	144
(WY)	(1963)	(1974)	(1956)	(1995)	(1958)	(1995)	(1963)	(2005)	(1993)	(2005)	(1983)	(1986)
Min	4.48	16.8	18.8	103	156	172	131	92.9	40.4	12.2	5.74	3.89
(WY)	(2003)	(1960)	(1977)	(1977)	(1977)	(1988)	(1977)	(2013)	(1987)	(1977)	(2013)	(2002)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1951 - 2013	
Annual total	352,587.8		210,062.9			
Annual mean	963		576		846	
Highest annual mean					1,610	1974
Lowest annual mean					95.7	1977
Highest daily mean	19,200	Dec 2	19,200	Dec 2	33,900	Dec 22, 1964
Lowest daily mean	5.4	Oct 4	3.8	Sep 14	2.9	Sep 30, 2009
Annual seven-day minimum	5.5	Oct 1	4.0	Sep 11	3.0	Sep 27, 2009
Maximum peak flow			31,900	Dec 2	48,700	Dec 22, 1964
Maximum peak stage			16.57	Dec 2	24.00	Dec 22, 1964
Annual runoff (ac-ft)	699,400		416,700		613,000	
10 percent exceeds	2,970		1,130		2,110	
50 percent exceeds	145		84		182	
90 percent exceeds	7.5		5.4		11	

