Water-Data Report 2008

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 mi^2.

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 fair. 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 ft^3/s, Dec. 22, 1964, gage height, 24.0 ft, from floodmarks, present site and datum, from rating curve extended above 20,000 ft^3/s, on basis of slope-area measurement at gage height 21.3 ft, former site and datum; minimum daily, 3.3 ft^3/s, Sept. 26, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Peak of Jan. 21, 1943, had a discharge estimate of 22,900 ft^3/s, based on method in WRI 77-21.

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)
Jan 4	1300	*20,900	*12.54
No other peak greater than base discharge			

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9.5	45	51	859	3,200	1,320	543	397	117	32	9.5	5.2
2	10	43	55	715	2,400	1,110	497	360	110	31	9.5	5.2
3	9.8	40	1,130	2,110	5,270	928	461	343	106	29	9.1	5.2
4	11	38	3,790	13,600	2,810	838	437	347	106	28	8.9	5.3
5	13	36	1,020	7,160	1,910	754	416	348	100	27	8.9	5.3
6	13	35	717	3,590	1,750	672	410	362	95	27	8.4	5.1
7	12	34	883	2,320	1,570	620	392	367	91	26	8.1	4.9
8	11	33	576	3,030	1,490	591	360	343	87	25	7.6	4.7
9	12	31	422	3,400	1,450	574	338	317	83	22	7.3	4.3
10	28	32	333	4,730	1,520	580	317	294	78	20	7.0	4.3
11	42	34	272	3,430	1,550	638	307	289	75	19	6.9	4.2
12	38	41	224	2,910	1,770	611	331	272	73	18	7.1	4.2
13	42	119	192	2,570	1,840	904	384	253	68	17	7.2	4.2
14	39	119	171	1,910	1,480	1,210	429	251	64	17	7.1	4.1
15	43	88	158	1,570	1,250	1,500	401	275	61	16	6.7	3.9
16	62	72	153	1,330	1,230	1,240	343	303	58	16	6.3	3.8
17	65	70	317	1,150	1,240	1,020	313	294	57	15	5.9	3.9
18	102	64	2,470	1,030	1,220	971	322	273	54	14	5.7	3.8
19	1,260	362	1,990	963	1,200	1,070	320	250	52	14	5.6	4.2
20	1,010	360	4,100	915	1,200	1,150	302	229	50	14	5.6	4.4
21	405	194	1,650	856	1,090	925	281	210	47	13	6.4	4.4
22	218	137	1,030	761	1,180	809	428	192	45	13	6.5	5.0
23	144	110	1,190	684	1,110	731	1,190	177	44	12	6.7	5.3
24	111	92	1,500	662	2,830	684	796	172	42	12	6.6	5.1
25	92	80	1,070	613	3,480	693	597	166	41	12	6.4	4.8
26	78	72	861	1,830	2,060	697	507	152	40	11	6.2	5.2
27	68	69	713	2,040	1,610	725	492	146	39	11	5.8	5.4
28	61	64	749	2,140	1,410	703	488	143	38	11	5.8	5.1
29	55	58	1,960	1,580	1,320	927	488	139	36	10	5.7	5.1
30	52	54	1,830	1,410	---	716	465	133	34	10	5.6	4.9
31	49	---	1,130	4,030	---	604	---	127	---	9.8	5.5	---
Total	4,165.3	2,626	32,707	75,898	53,440	26,515	13,355	7,924	1,991	551.8	215.6	140.5
Mean	134	87.5	1,055	2,448	1,843	855	445	256	66.4	17.8	6.95	4.68
Max	1,260	362	4,100	13,600	5,270	1,500	1,190	397	117	32	9.5	5.4
Min	9.5	31	51	613	1,090	574	281	127	34	9.8	5.5	3.8
Ac-ft	8,260	5,210	64,870	150,500	106,000	52,590	26,490	15,720	3,950	1,090	428	279

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	131	815	1,945	2,241	2,016	1,593	934	451	142	36.2	16.2	17.9
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	109	40.4	12.2	5.88	3.89
(WY)	(2003)	(1960)	(1977)	(1977)	(1977)	(1988)	(1977)	(1985)	(1987)	(1977)	(2002)	(2002)

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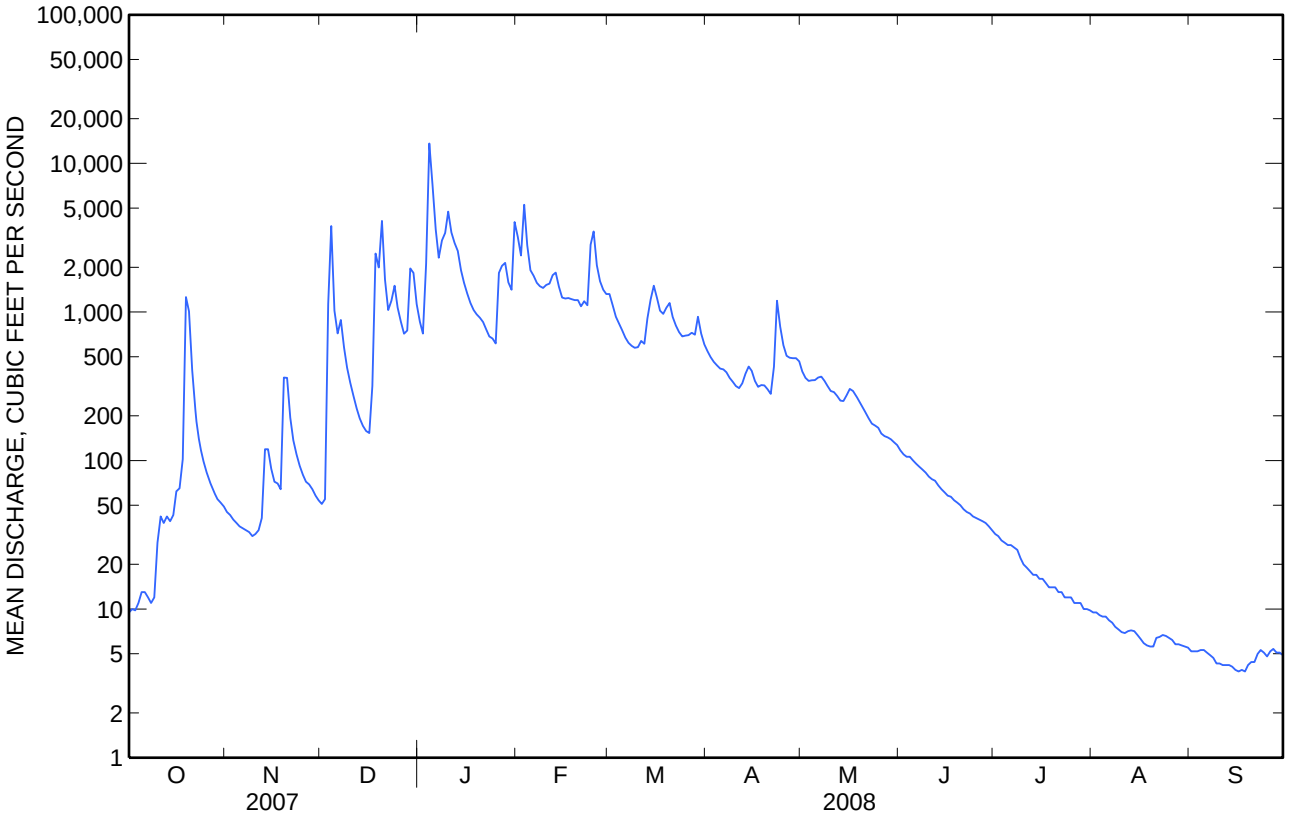
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1951 - 2008	
Annual total	179,322.4		219,529.2			
Annual mean	491		600		857	
Highest annual mean					1,610	1974
Lowest annual mean					95.7	1977
Highest daily mean	5,650	Feb 25	13,600	Jan 4	33,900	Dec 22, 1964
Lowest daily mean	5.5	Sep 1	3.8	Sep 16	3.3	Sep 26, 2002
Annual seven-day minimum	5.6	Sep 6	4.0	Sep 12	3.5	Sep 23, 2002
Maximum peak flow			20,900	Jan 4	48,700	Dec 22, 1964
Maximum peak stage			12.54	Jan 4	24.00	Dec 22, 1964
Annual runoff (ac-ft)	355,700		435,400		620,900	
10 percent exceeds	1,500		1,570		2,130	
50 percent exceeds	125		149		181	
90 percent exceeds	7.5		5.8		11