Water-Data Report 2008

11465000 Dry Creek below Warm Springs Dam, near Geyserville, CA

Russian River Basin

LOCATION.--Lat 38°43′11″, long 122°59′58″ referenced to North American Datum of 1927, Sonoma County, CA, Hydrologic Unit 18010110, in Tzabaco Grant, on right bank of outlet channel, 500 ft downstream from Warm Springs Dam, 500 ft upstream from county road bridge, and 5.0 mi west of Geyserville.

DRAINAGE AREA.--131 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1939 to September 1942 (published as "Dry Creek near Healdsburg"), October 1981 to current year.
WATER TEMPERATURE: Water years 1981-94.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 188.21 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Sept. 30, 1942, nonrecording gage at site 500 ft downstream at different datum.

REMARKS.--Records good. Flow affected by storage in Lake Sonoma, capacity, 380,600 acre-ft, beginning October 1983. See schematic diagram of Russian River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,500 ft^3/s, Feb. 28, 1940, gage height, 16.9 ft, datum then in use; no flow Oct. 1 to Dec. 8, 1939.
Maximum discharge since regulation by Lake Sonoma, 5,590 ft^3/s, Feb. 11, 1998, gage height, 10.38 ft; minimum daily, 6.1 ft^3/s, Oct. 21, 22, 1983.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of December 1937 reached a stage of 21.8 ft from floodmarks, discharge about 25,000 ft^3/s.

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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	102	108	116	107	164	1,000	156	102	84	138	110	115
2	102	115	115	92	167	1,000	156	102	84	138	110	115
3	102	115	115	79	165	778	138	102	83	137	110	109
4	102	115	116	92	1,120	354	120	102	83	136	116	105
5	102	115	116	75	2,060	162	120	94	87	137	119	106
6	102	115	118	74	2,050	161	119	86	89	136	119	106
7	102	115	117	75	2,010	161	111	88	89	135	119	106
8	102	116	116	78	1,600	161	104	89	90	134	118	106
9	101	115	116	76	1,100	160	105	80	90	133	117	107
10	101	115	116	76	1,100	159	105	81	97	132	116	108
11	101	115	116	76	740	159	105	82	110	130	116	108
12	102	115	117	78	252	160	105	83	129	130	115	108
13	102	113	117	79	195	158	106	85	140	131	115	108
14	103	114	118	80	161	157	106	85	140	131	115	108
15	102	114	119	81	161	159	106	85	141	131	115	108
16	103	114	119	81	161	159	106	86	141	125	114	108
17	102	114	119	80	160	159	106	86	133	120	114	108
18	102	114	123	80	161	156	103	86	130	120	113	109
19	102	117	122	80	161	157	101	86	130	121	107	109
20	102	113	119	79	160	157	101	86	130	121	104	109
21	102	113	119	79	161	158	102	86	139	113	105	108
22	102	113	120	79	160	158	101	85	143	108	106	70
23	102	113	119	78	162	157	102	84	144	109	107	45
24	102	113	122	78	167	156	102	84	124	108	107	41
25	102	113	127	91	162	158	102	84	143	108	107	60
26	102	113	127	85	163	158	102	83	142	111	107	101
27	102	113	113	83	854	157	102	84	141	112	107	101
28	102	113	103	347	1,710	157	100	83	140	113	107	101
29	103	115	107	1,630	1,430	156	102	84	140	112	114	101
30	103	116	107	2,080	---	155	102	83	139	112	115	101
31	103	---	107	1,040	---	155	---	84	---	111	115	---
Total	3,164	3,422	3,621	7,288	18,817	7,402	3,296	2,700	3,595	3,833	3,479	2,995
Mean	102	114	117	235	649	239	110	87.1	120	124	112	99.8
Max	103	117	127	2,080	2,060	1,000	156	102	144	138	119	115
Min	101	108	103	74	160	155	100	80	83	108	104	41
Ac-ft	6,280	6,790	7,180	14,460	37,320	14,680	6,540	5,360	7,130	7,600	6,900	5,940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	90.1	139	178	464	521	466	226	113	113	115	112	97.7
Max	128	524	1,501	1,986	2,583	1,494	1,262	335	276	274	169	129
(WY)	(2003)	(1984)	(1984)	(1997)	(1998)	(1995)	(2006)	(2003)	(1998)	(1987)	(1987)	(2002)
Min	7.70	50.8	49.8	49.3	73.3	25.0	23.0	26.1	25.1	27.0	42.0	39.0
(WY)	(1984)	(1986)	(1986)	(1986)	(1988)	(1985)	(1985)	(1985)	(1985)	(1985)	(1985)	(1985)

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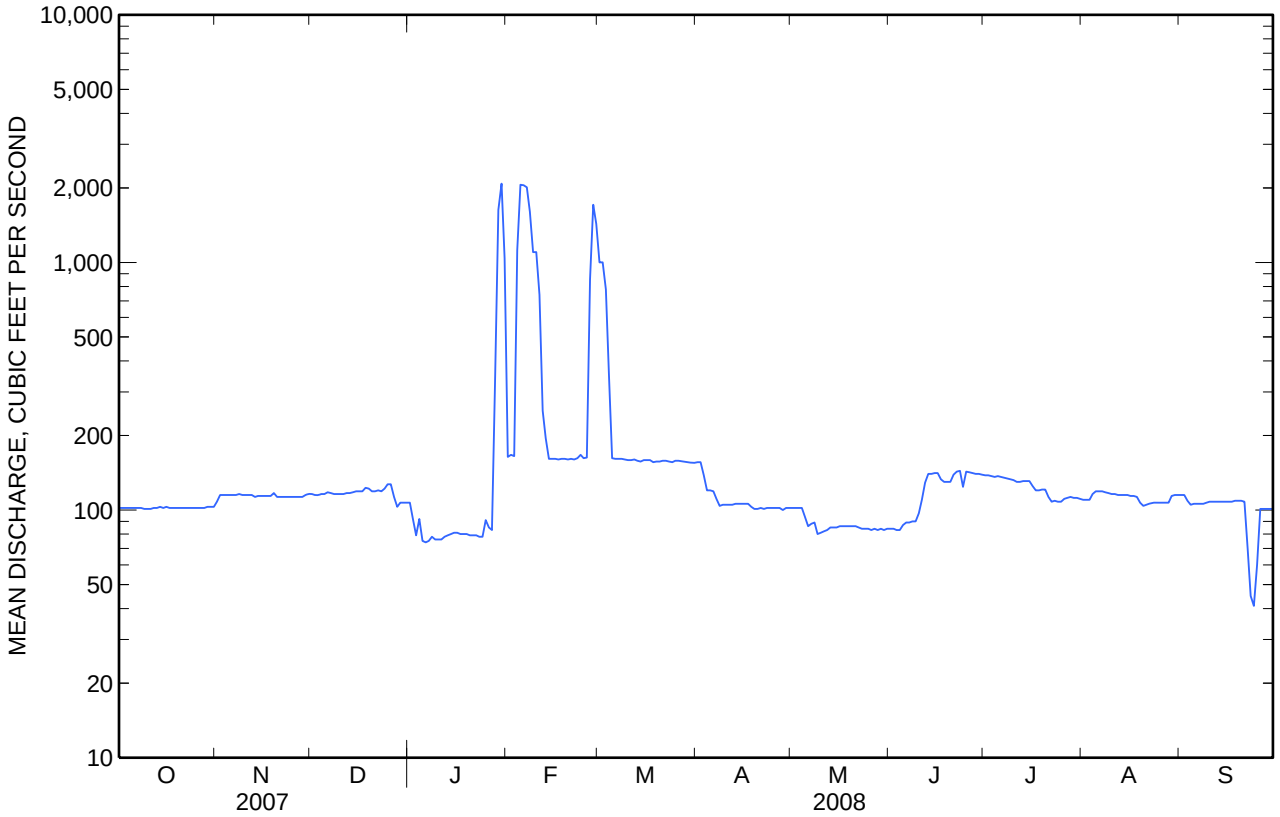
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1984 - 2008	
Annual total	39,654		63,612			
Annual mean	109		174		218	
Highest annual mean					512	1995
Lowest annual mean					46.0	1985
Highest daily mean	759	Mar 1	2,080	Jan 30	5,300	Feb 11, 1998
Lowest daily mean	73	Sep 26	41	Sep 24	6.1	Oct 21, 1983
Annual seven-day minimum	84	May 24	74	Sep 22	6.3	Oct 18, 1983
Maximum peak flow			2,240	Jan 29	5,590	Feb 11, 1998
Maximum peak stage			8.35	Jan 29	10.38	Feb 11, 1998
Annual runoff (ac-ft)	78,650		126,200		158,100	
10 percent exceeds	125		161		256	
50 percent exceeds	101		113		106	
90 percent exceeds	85		84		58