11466320 Santa Rosa Creek at Willowside Road, near Santa Rosa, CA

Russian River Basin

LOCATION.--Lat 38°26′43″, long 122°48′22″ referenced to North American Datum of 1927, in NW ¼ sec.13, T.7 N., R.9 W., Sonoma County, CA, Hydrologic Unit 18010110, on right bank, upstream side of Willowside Road bridge, 1.6 mi upstream of the confluence of Laguna de Santa Rosa, and 5.4 mi west of Santa Rosa.

DRAINAGE AREA.--77.6 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1998 to current year.

REVISED RECORDS.--WRD CA-01-2: 1999-2000 (peaks above base).

GAGE.--Water-stage and recorder. Datum of gage is NGVD of 1929.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Backwater conditions from Laguna de Santa Rosa can occur during periods of heavy rainfall. Diversions upstream from station for irrigation of about 5,000 acres. See schematic diagram of Russian River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,410 ft^3/s, Dec. 31, 2005, gage height, 72.67 ft; minimum daily, 0.82 ft^3/s, Sept. 4, 2008.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 4	1300	*4,790	*71.10
Jan 25	2030	4,380	70.93
Jan 31	1930	2,510	68.39

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.6	6.4	7.6	26	622	63	16	9.6	6.7	3.3	1.5	0.91
2	1.6	6.4	10	24	687	56	16	9.4	6.5	3.2	1.4	0.87
3	1.6	6.3	8.0	451	1,110	50	16	9.3	6.3	3.1	1.4	0.87
4	1.6	6.5	136	2,780	373	46	15	9.5	6.2	3.1	1.4	0.82
5	1.5	7.0	15	1,360	222	43	14	9.4	5.8	2.9	1.4	0.83
6	2.6	6.9	29	673	171	39	14	9.0	5.6	2.8	1.3	0.83
7	1.8	7.4	304	361	140	36	14	8.9	5.4	2.8	1.3	0.91
8	1.7	8.1	22	686	112	35	14	8.7	5.3	2.6	1.3	0.92
9	1.6	7.1	14	386	87	33	13	8.6	5.3	2.5	1.3	1.0
10	177	24	12	249	73	32	13	8.4	5.2	2.4	1.2	1.0
11	8.1	85	10	e184	65	31	13	8.2	4.8	2.4	1.2	1.0
12	258	12	9.8	127	58	30	12	8.0	4.5	2.5	1.2	1.0
13	36	9.5	9.4	87	53	30	12	8.1	4.4	2.4	1.1	1.1
14	11	8.6	9.3	69	48	29	11	8.0	4.4	2.4	1.1	1.1
15	8.7	10	9.1	e58	44	29	11	7.7	4.4	2.4	1.1	1.1
16	60	11	9.2	e50	41	29	11	7.1	4.3	2.5	1.1	1.1
17	44	11	38	43	39	26	11	7.0	4.2	2.4	1.2	1.0
18	13	11	465	37	38	25	11	7.0	4.0	2.3	1.3	1.1
19	22	11	92	35	44	24	11	7.2	3.8	2.3	1.3	1.1
20	37	11	616	33	55	23	11	7.2	3.5	2.3	1.2	1.2
21	11	11	84	58	65	22	11	7.1	3.3	2.3	1.1	1.3
22	8.7	10	42	55	109	21	11	6.7	3.3	2.2	1.2	1.1
23	7.7	9.8	33	38	106	20	27	6.7	3.3	2.1	1.2	1.0
24	7.2	8.6	28	41	898	19	13	7.0	3.3	2.0	1.2	0.98
25	6.8	8.3	26	1,460	285	18	12	8.0	3.4	1.9	1.1	0.93
26	6.8	8.1	25	2,160	163	18	11	7.5	3.4	1.8	1.1	0.95
27	6.6	7.8	25	986	128	17	10	7.9	3.3	1.6	0.99	0.98
28	6.6	7.7	58	483	105	18	9.9	7.6	3.4	1.7	0.95	0.97
29	6.3	7.6	48	327	77	26	9.6	7.0	3.4	1.6	0.92	1.0
30	6.3	7.6	32	247	---	18	9.4	6.9	3.3	1.6	0.96	1.1
31	6.4	---	27	810	---	17	---	6.9	---	1.5	0.96	---
Total	770.8	352.7	2,253.4	14,384	6,018	923	382.9	245.6	134.0	72.9	36.98	30.07
Mean	24.9	11.8	72.7	464	208	29.8	12.8	7.92	4.47	2.35	1.19	1.00
Max	258	85	616	2,780	1,110	63	27	9.6	6.7	3.3	1.5	1.3
Min	1.5	6.3	7.6	24	38	17	9.4	6.7	3.3	1.5	0.92	0.82
Ac-ft	1,530	700	4,470	28,530	11,940	1,830	759	487	266	145	73	60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	15.0	43.4	336	234	285	151	78.0	35.6	9.96	5.37	4.30	4.07
Max	30.3	190	846	464	587	460	338	142	22.3	9.62	7.18	6.96
(WY)	(2001)	(2002)	(2003)	(2008)	(1999)	(2006)	(2006)	(2005)	(2005)	(2005)	(2006)	(2006)
Min	3.23	11.8	13.3	20.7	70.2	29.8	12.8	7.92	4.47	2.35	1.19	1.00
(WY)	(2003)	(2008)	(2000)	(2007)	(2002)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)

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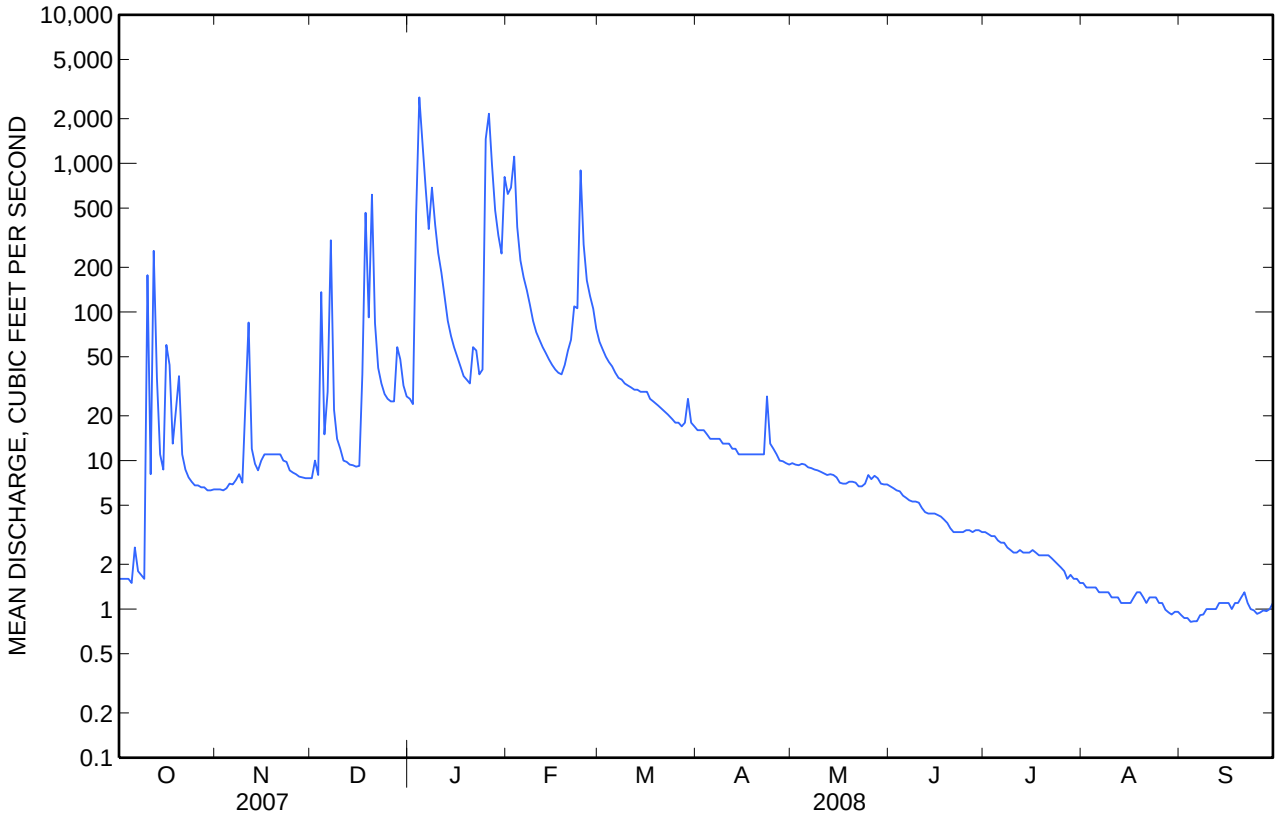
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1999 - 2008	
Annual total	15,705.1		25,604.35			
Annual mean	43.0		70.0		97.3	
Highest annual mean					185	2006
Lowest annual mean					43.2	2001
Highest daily mean	1,470	Feb 10	2,780	Jan 4	5,200	Dec 31, 2005
Lowest daily mean	1.5	Sep 5	0.82	Sep 4	0.82	Sep 4, 2008
Annual seven-day minimum	1.6	Sep 27	0.86	Sep 1	0.86	Sep 1, 2008
Maximum peak flow			4,790	Jan 4	6,410	Dec 31, 2005
Maximum peak stage			71.10	Jan 4	72.67	Dec 31, 2005
Annual runoff (ac-ft)	31,150		50,790		70,480	
10 percent exceeds	60		107		211	
50 percent exceeds	9.8		8.6		11	
90 percent exceeds	1.9		1.1		3.4	



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WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2006 to May 2008 (storm season only) (discontinued).
SEDIMENT DATA: November 2006 to May 2008 (storm season only) (discontinued).

REMARKS.--Periodic suspended sediment sampling only.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Date	Time	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspnd. sediment, sieve diametr percent <.125mm (70332)	Suspnd. sediment, sieve diametr percent <.25mm (70333)	Suspnd. sediment, sieve diametr percent <.5 mm (70334)
Oct									
04...	1210	1.7	13.5	2	.01	84	--	--	--
Dec									
05...	1020	15	12.5	4	.16	81	--	--	--
05...	1350	14	13.0	3	.11	100	--	--	--
21...	1245	80	8.5	26	5.6	97	99	99	100
Jan									
04...	1645	4,020	10.0	456	4,950	98	100	--	--
10...	1210	310	9.5	18	15	98	--	--	--
26...	1305	1,540	10.5	106	441	99	100	--	--
Feb									
12...	1345	58	12.0	12	1.9	86	--	--	--
25...	1500	239	12.5	35	23	95	99	100	--
Apr									
16...	1435	11	16.5	2	.06	79	--	--	--
May									
01...	1145	9.8	16.0	2	.05	90	--	--	--