Water-Data Report 2013

11466200 Santa Rosa Creek at Santa Rosa, CA

Russian River Basin

LOCATION.--Lat 38°26′12″, long 122°43′25″ referenced to North American Datum of 1927, Sonoma County, CA, Hydrologic Unit 18010110, in Cabeza de Santa Rosa Grant, on left bank, 10 ft downstream of Pierson Street Bridge, in Santa Rosa.

DRAINAGE AREA.--57.0 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1939 to September 1941, October 2001 to current year (seasonal records only). Stage only October 2004 to May 2005.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 100.00 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are fair. Water is diverted from Santa Rosa Creek into Spring Lake, 5.9 mi upstream, during flood events beginning in 1965. 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, 9,080 ft^3/s, Feb. 27, 1940, gage height, 19.2 ft from floodmarks, from rating curve extended above 5,000 ft^3/s, site and datum then in use, maximum gage height, 40.35 ft, Dec. 31, 2005; minimum daily, no flow Oct. 1 to Dec. 7, 1939.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,200 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 2	0845	*3,950	*33.16
Dec 23	1230	3,470	32.33

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 11466200, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/11466200.2013.pdf

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e0.58	32	483	70	14	8.4	23	---	---	---	---	---
2	e0.55	4.5	1,550	59	14	8.5	12	---	---	---	---	---
3	e0.55	2.9	337	51	14	8.7	9.9	---	---	---	---	---
4	e0.50	2.4	191	45	13	8.5	95	---	---	---	---	---
5	0.45	2.2	422	58	13	11	43	---	---	---	---	---
6	0.51	2.0	200	63	13	27	22	---	---	---	---	---
7	0.58	2.0	150	47	20	12	18	---	---	---	---	---
8	0.57	2.0	112	41	14	9.9	17	---	---	---	---	---
9	0.60	2.2	76	39	13	9.2	14	---	---	---	---	---
10	0.64	2.0	60	36	12	8.7	12	---	---	---	---	---
11	0.66	1.9	50	31	12	8.4	11	---	---	---	---	---
12	0.78	1.9	45	28	11	8.3	10	---	---	---	---	---
13	0.80	1.9	34	26	11	8.2	9.8	---	---	---	---	---
14	0.74	1.9	30	24	10	8.0	8.8	---	---	---	---	---
15	0.76	2.1	28	23	10	7.9	8.5	---	---	---	---	---
16	0.72	19	32	22	10	7.8	8.4	---	---	---	---	---
17	0.65	133	126	21	9.8	7.6	7.9	---	---	---	---	---
18	e0.66	26	68	20	9.6	7.5	7.4	---	---	---	---	---
19	e0.65	7.4	41	19	18	7.9	7.5	---	---	---	---	---
20	e0.72	81	35	18	12	34	7.3	---	---	---	---	---
21	e0.64	64	1,030	18	11	14	6.9	---	---	---	---	---
22	e65	14	758	17	10	10	6.9	---	---	---	---	---
23	e6.0	8.2	1,670	40	10	8.8	6.4	---	---	---	---	---
24	4.6	6.3	612	31	9.6	8.4	6.5	---	---	---	---	---
25	2.4	5.4	645	23	9.4	8.3	6.4	---	---	---	---	---
26	1.7	4.9	498	19	9.1	8.7	6.2	---	---	---	---	---
27	1.5	4.4	237	17	8.8	8.7	6.0	---	---	---	---	---
28	1.3	152	177	16	8.5	9.2	5.7	---	---	---	---	---
29	1.2	136	145	15	---	8.9	5.5	---	---	---	---	---
30	1.2	1,780	114	15	---	8.3	5.1	---	---	---	---	---
31	34	---	84	15	---	32	---	---	---	---	---	---
Total	132.21	2,505.5	10,040	967	329.8	342.8	414.1	---	---	---	---	---
Mean	4.26	83.5	324	31.2	11.8	11.1	13.8	---	---	---	---	---
Max	65	1,780	1,670	70	20	34	95	---	---	---	---	---
Min	0.45	1.9	28	15	8.5	7.5	5.1	---	---	---	---	---
Ac-ft	262	4,970	19,910	1,920	654	680	821	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7.21	27.8	207	170	181	153	82.6	29.1	3.44	0.97	0.40	2.24
Max	33.6	150	524	446	518	436	292	68.8	4.61	1.28	0.56	6.25
(WY)	(2011)	(2002)	(2006)	(1941)	(1940)	(2011)	(1941)	(2003)	(1941)	(1941)	(1941)	(2002)
Min	0.00	0.00	0.22	4.44	11.8	11.1	7.98	9.45	2.26	0.65	0.25	0.20
(WY)	(1940)	(1940)	(1940)	(2009)	(2013)	(2013)	(2008)	(1940)	(1940)	(1940)	(1940)	(1940)

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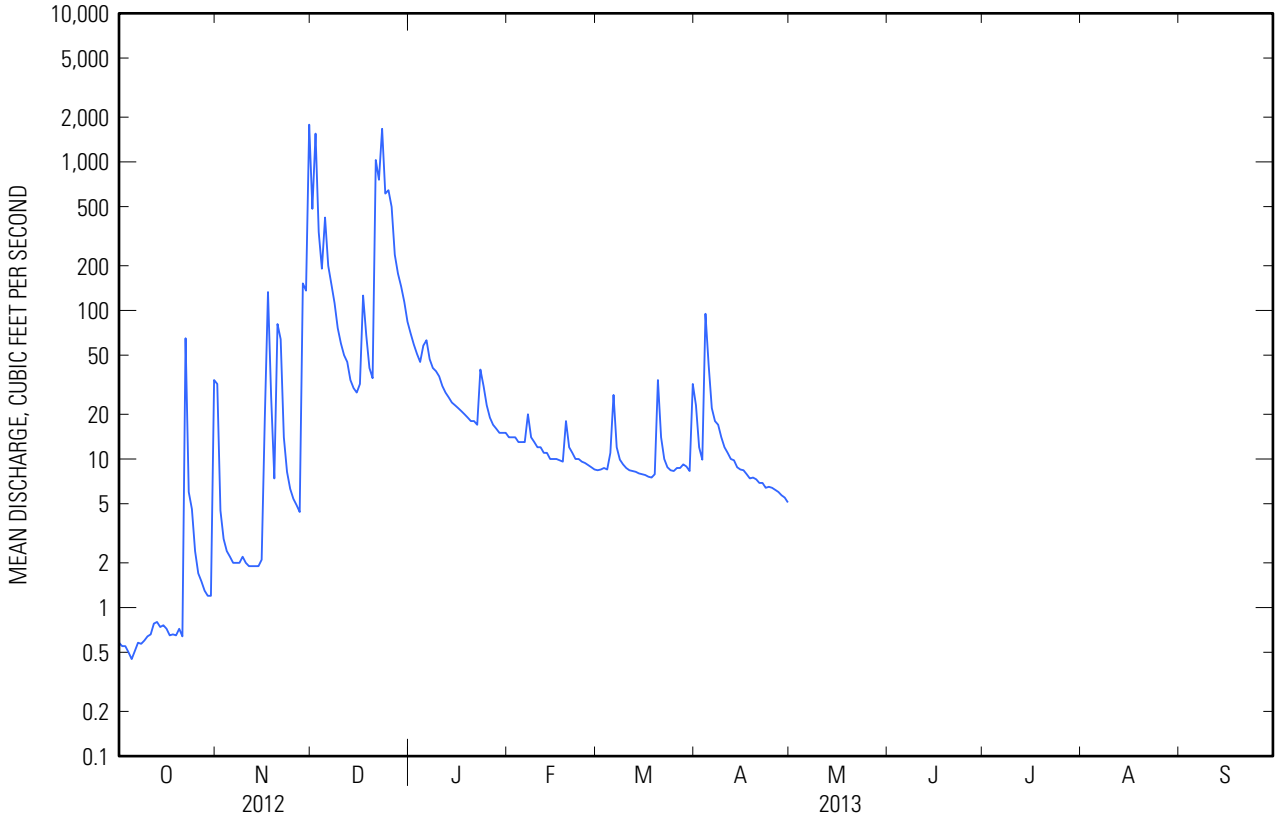
SUMMARY STATISTICS

	Water Years 1940 - 2013	
Annual mean	111	
Highest annual mean	130	1941
Lowest annual mean	91.3	1940
Highest daily mean	4,830	Feb 27, 1940
Lowest daily mean	0.00	Oct 1, 1939
Annual seven-day minimum	0.00	Oct 1, 1939
Maximum peak flow	9,080	Feb 27, 1940
Maximum peak stage	40.35	Dec 31, 2005
Annual runoff (ac-ft)	80,310	
10 percent exceeds	254	
50 percent exceeds	2.2	
90 percent exceeds	0.10