Water-Data Report 2012

11464000 Russian River near Healdsburg, CA

Russian River Basin

LOCATION.--Lat 38°36′48″, long 122°50′07″ referenced to North American Datum of 1927, Sonoma County, CA, Hydrologic Unit 18010110, in Sotoyome Grant, on left bank, 2 mi east of Healdsburg, and 3.5 mi upstream from Dry Creek.

DRAINAGE AREA.--793 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.
CHEMICAL DATA: Water years 1951-66, 1980.
WATER TEMPERATURE: Water years 1966-2002.

REVISED RECORDS.--WSP 981: 1942. WSP 1929: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 77.01 ft above NGVD of 1929.

REMARKS.--Records good. Several diversions for irrigation of about 17,800 acres upstream from station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino, 63 mi upstream. See schematic diagram of Russian River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 73,000 ft^3/s, Jan. 9, 1995, gage height, 26.23 ft, maximum gage height, 30.0 ft, Feb. 28, 1940; minimum daily discharge, 12 ft^3/s, June 14, 1988.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 11, 1937, reached a stage of 30.8 ft, from floodmarks.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 11464000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/11464000.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	171	452	272	200	482	553	8,260	581	216	129	128	137
2	173	438	265	201	451	668	5,420	548	207	135	121	137
3	179	383	247	200	417	589	3,710	527	200	133	127	141
4	189	313	233	198	392	492	2,730	509	199	126	124	144
5	219	290	226	198	371	442	2,220	488	200	126	121	141
6	244	287	219	193	356	408	1,770	461	197	125	133	132
7	210	281	216	191	379	385	1,490	440	193	120	136	136
8	202	268	214	194	454	370	1,260	418	189	118	129	138
9	198	256	212	194	448	355	1,130	399	183	126	127	144
10	196	228	210	194	401	351	1,090	381	179	126	133	142
11	204	235	207	193	385	338	1,330	362	174	120	143	141
12	217	244	205	193	387	334	2,170	348	172	116	137	141
13	213	241	204	191	392	2,140	4,760	330	166	118	142	141
14	207	241	203	191	579	9,510	3,500	321	165	121	147	141
15	201	238	205	192	568	4,440	2,200	314	161	129	141	141
16	206	232	205	192	481	4,340	1,740	307	153	145	141	138
17	234	233	203	191	443	7,470	1,420	300	143	151	138	141
18	292	236	201	192	419	3,810	1,270	288	135	155	138	144
19	412	235	201	197	410	2,240	1,110	277	132	154	142	141
20	456	266	200	262	399	1,600	1,010	267	131	146	150	130
21	466	288	198	4,410	387	1,300	940	260	128	142	146	134
22	448	275	197	3,290	365	1,160	869	256	134	140	137	134
23	452	264	198	9,230	355	1,020	802	250	136	141	138	136
24	453	365	199	4,100	345	966	771	244	141	138	132	141
25	455	505	199	1,600	331	1,530	778	238	138	136	125	142
26	454	404	199	1,050	316	1,350	736	241	135	126	129	142
27	453	340	199	820	313	5,310	712	242	131	119	133	139
28	452	311	200	700	306	19,000	691	236	122	124	132	134
29	453	294	200	615	395	7,570	677	233	122	127	133	134
30	457	282	200	556	---	5,020	614	228	122	138	133	132
31	457	---	199	513	---	6,060	---	222	---	136	132	---
Total	9,623	8,925	6,536	30,841	11,727	91,121	57,180	10,516	4,804	4,086	4,168	4,159
Mean	310	298	211	995	404	2,939	1,906	339	160	132	134	139
Max	466	505	272	9,230	579	19,000	8,260	581	216	155	150	144
Min	171	228	197	191	306	334	614	222	122	116	121	130
Ac-ft	19,090	17,700	12,960	61,170	23,260	180,700	113,400	20,860	9,530	8,100	8,270	8,250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	262	702	2,452	3,922	3,930	2,809	1,495	580	269	184	180	185
Max	1,605	5,293	8,945	14,490	16,450	11,810	6,697	2,080	972	300	331	360
(WY)	(1958)	(1974)	(1956)	(1995)	(1998)	(1983)	(2006)	(2003)	(1998)	(1961)	(1974)	(1974)
Min	33.7	122	111	90.9	58.7	146	55.7	85.1	81.3	70.5	66.5	67.4
(WY)	(1978)	(1992)	(1991)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1947)	(2009)	(1977)

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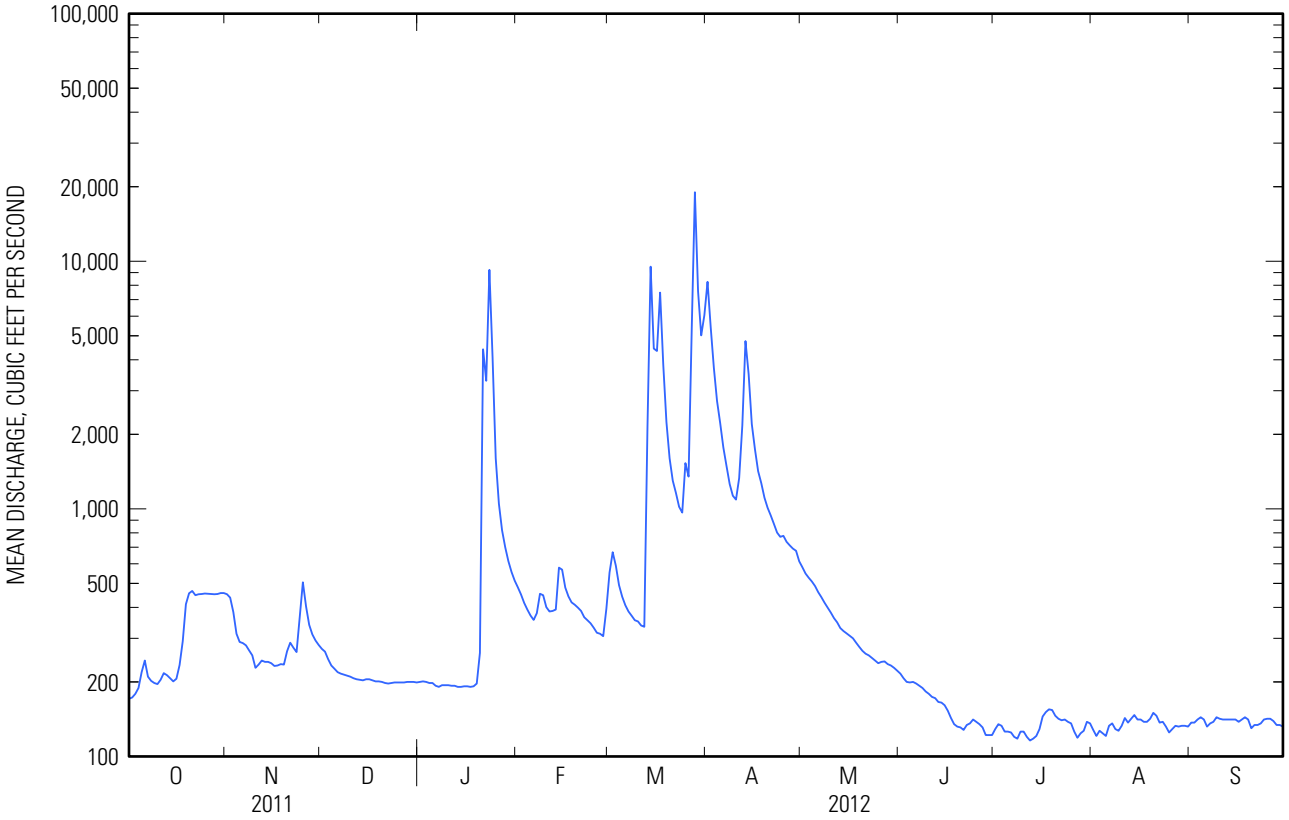
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1940 - 2012	
Annual total	464,339		243,686			
Annual mean	1,272		666		1,404	
Highest annual mean					3,277	1983
Lowest annual mean					101	1977
Highest daily mean	21,400	Mar 20	19,000	Mar 28	69,300	Jan 9, 1995
Lowest daily mean	125	Aug 18	116	Jul 12	12	Jun 14, 1988
Annual seven-day minimum	127	Aug 14	121	Jul 7	21	Apr 20, 1977
Maximum peak flow			23,200	Mar 28	73,000	Jan 9, 1995
Maximum peak stage			13.55	Mar 28	30.00	Feb 28, 1940
Annual runoff (ac-ft)	921,000		483,400		1,017,000	
10 percent exceeds	2,760		1,260		3,380	
50 percent exceeds	356		224		305	
90 percent exceeds	147		132		138