Water-Data Report 2012

11467510 South Fork Gualala River near The Sea Ranch, CA

Gualala River Basin

LOCATION.--Lat 38°42′33″, long 123°25′32″ referenced to North American Datum of 1927, Sonoma County, CA, Hydrologic Unit 18010109, in German Grant, on left bank, 0.8 mi downstream of Wheatfield Fork Gualala River, and 2.0 mi north of The Sea Ranch.

DRAINAGE AREA.--161 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1991 to September 1992 (low flow only) and October 2007 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 40.0 ft above NGVD of 1929, from levels.

REMARKS.--Records good. Some diversion for agriculture and domestic use.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,800 ft^3/s, Jan. 4, 2008, gage height 27.42 ft, from rating curve extended above 1,840 ft^3/s and upper end adjustment of rating from discontinued gage, South Fork Gualala River near Annapolis (staiton 11467500). No flow for many days during water year 2008, and Oct. 1, 2, 2008.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 24.57 ft, former site and datum, South Fork Gualala River near Annapolis (station 11467500), from slope-area measurement, discharge 55,000 ft^3/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 13,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 27	2045	*20,400	*24.36

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 11467510, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/11467510.2012.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	6.4	12	31	19	109	297	1,860	127	37	13	4.4	1.2
2	7.2	12	28	18	99	270	1,080	120	35	13	4.1	1.2
3	9.5	12	25	17	90	199	791	135	32	13	3.8	1.2
4	27	11	23	16	82	160	629	201	34	12	3.4	1.4
5	110	12	22	15	75	136	504	142	38	10	3.2	1.2
6	69	18	21	15	70	120	416	124	37	9.0	3.2	1.2
7	37	25	20	15	112	104	356	113	32	8.3	3.1	1.2
8	25	19	20	14	249	94	311	104	30	8.0	2.9	1.2
9	19	16	19	14	156	84	277	95	28	7.9	2.9	1.2
10	32	15	19	13	131	78	290	89	26	7.6	2.9	1.2
11	101	14	19	13	193	78	289	83	25	7.2	2.8	1.2
12	57	14	19	13	177	78	483	79	23	6.7	2.7	1.2
13	35	15	18	13	211	1,650	1,210	75	21	6.1	2.5	1.1
14	25	15	18	13	232	2,580	735	73	20	5.7	2.2	1.1
15	21	15	20	12	184	962	538	71	19	5.3	2.0	1.0
16	18	14	22	12	152	2,210	437	69	18	5.4	2.0	1.0
17	16	14	21	11	130	2,800	374	67	17	6.1	1.9	1.0
18	15	15	19	11	115	991	330	63	15	6.8	1.7	0.93
19	15	16	18	25	102	595	292	60	15	7.5	1.6	0.88
20	14	37	17	1,360	94	444	261	57	15	8.2	1.5	0.91
21	14	60	17	4,300	88	365	233	54	14	8.1	1.5	0.85
22	14	37	17	1,080	81	316	212	52	15	7.5	1.5	0.92
23	13	30	17	5,960	75	265	194	51	17	6.8	1.4	0.88
24	13	681	16	1,030	69	584	197	49	19	6.2	1.2	0.76
25	13	211	16	497	64	519	192	47	18	5.7	1.2	0.77
26	12	95	16	344	59	413	201	47	17	5.2	1.2	0.75
27	12	64	16	262	58	8,150	182	46	16	4.7	1.2	0.71
28	12	50	16	200	58	6,440	158	45	15	4.5	1.1	0.73
29	12	41	16	161	337	1,940	147	43	14	4.5	1.1	0.69
30	12	36	18	136	---	1,260	137	42	13	4.6	1.1	0.71
31	12	---	19	119	---	1,950	---	40	---	4.7	1.2	---
Total	798.1	1,626	603	15,728	3,652	36,132	13,316	2,463	675	229.3	68.5	30.29
Mean	25.7	54.2	19.5	507	126	1,166	444	79.5	22.5	7.40	2.21	1.01
Max	110	681	31	5,960	337	8,150	1,860	201	38	13	4.4	1.4
Min	6.4	11	16	11	58	78	137	40	13	4.5	1.1	0.69
Ac-ft	1,580	3,230	1,200	31,200	7,240	71,670	26,410	4,890	1,340	455	136	60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	73.5	72.6	469	974	842	961	414	143	35.1	10.8	3.59	1.77
Max	298	233	1,654	2,107	1,304	2,169	1,268	295	77.9	21.7	8.55	4.54
(WY)	(2011)	(2011)	(2011)	(2010)	(2008)	(2011)	(2010)	(2009)	(2011)	(2010)	(2010)	(2010)
Min	2.75	14.3	19.5	57.9	126	158	51.0	21.5	6.43	3.49	0.87	0.07
(WY)	(2009)	(2008)	(2012)	(2009)	(2012)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)	(2008)

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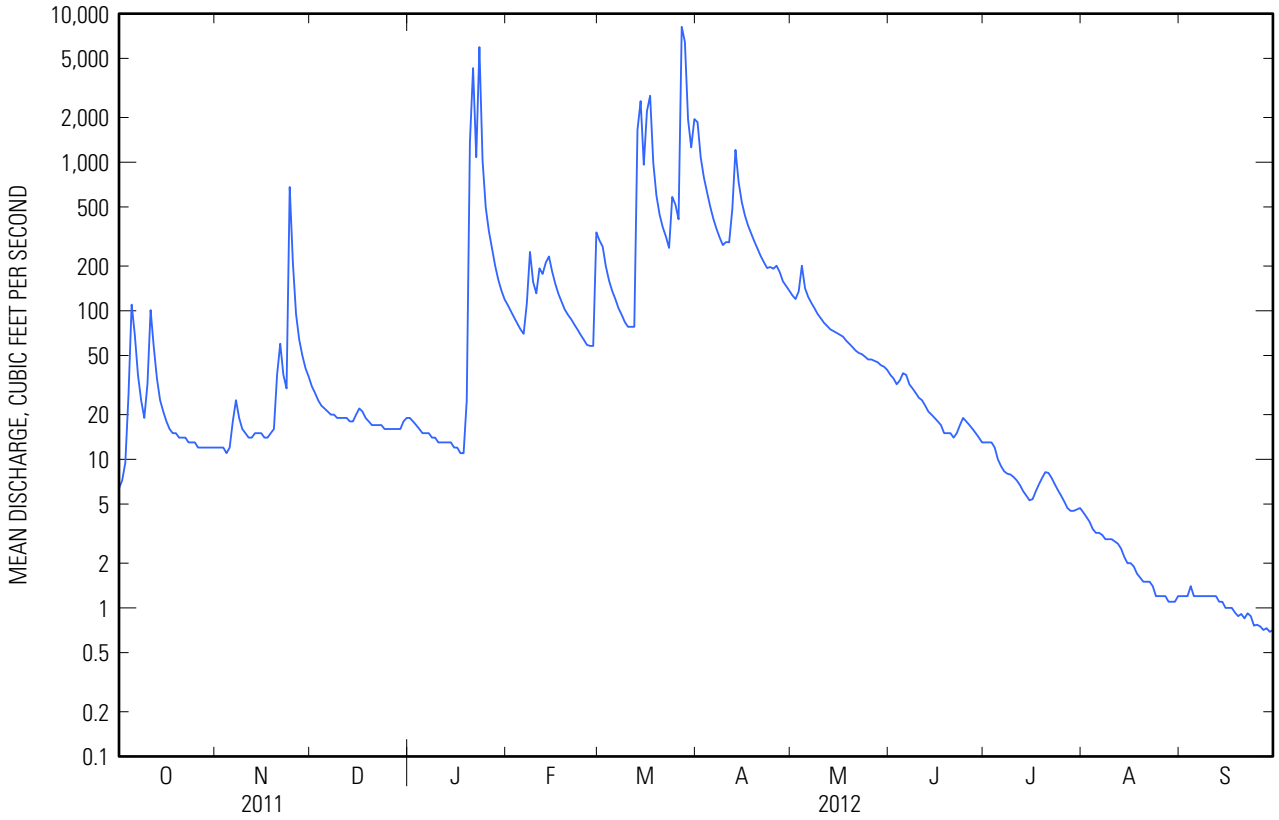
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1991 - 2012	
Annual total	113,268.6		75,321.19			
Annual mean	310		206		333	
Highest annual mean					487	2011
Lowest annual mean					194	2009
Highest daily mean	7,880	Mar 24	8,150	Mar 27	14,000	Jan 4, 2008
Lowest daily mean	4.0	Sep 12	0.69	Sep 29	0.00	Oct 1, 2007
Annual seven-day minimum	4.2	Sep 9	0.73	Sep 24	0.00	Sep 15, 2008
Maximum peak flow			20,400	Mar 27	26,800	Jan 4, 2008
Maximum peak stage			24.36	Mar 27	27.42	Jan 4, 2008
Annual runoff (ac-ft)	224,700		149,400		240,900	
10 percent exceeds	633		359		725	
50 percent exceeds	41		19		34	
90 percent exceeds	6.1		1.2		1.9