

11459150 Petaluma River at Copeland Pumping Station, at Petaluma, CA

Petaluma River Basin

LOCATION.--Lat 38°14'18", long 122°38'21" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.33, T.5 N., R.7 W., Sonoma County, CA, Hydrologic Unit 18050002, on left bank, 0.1 mi upstream from Washington Street Bridge, at Copeland Pumping Station, in Petaluma.

DRAINAGE AREA.--45.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1998 to September 2008, October 2009 to current year. Tidally filtered daily mean flows only since October 2010.

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

REMARKS.--Records fair. No records computed below 20 ft³/s. Streamflow at this site are affected significantly by astronomical tides. Daily mean discharge was computed using the Godin low-pass filter to remove tidal effects from instantaneous values. By convention, the U. S. Geological Survey has established ebb (seaward) flows as positive flows and flood (landward) flows as negative flows.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,620 ft³/s, Dec. 31, 2005, gage height, 10.04 ft, from backwater.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft³/s and (or) maximum (*):

(a, affected by backwater)

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 23	0715	*967	0.35
Jan 23	1345	a	*4.88

11459150 Petaluma River at Copeland Pumping Station, at Petaluma, CA—Continued

DISCHARGE, TIDALLY FILTERED, 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	---	---	---	---	---	---	81	---	---	---	---	---
2	---	---	---	---	---	---	38	---	---	---	---	---
3	---	---	---	---	---	---	26	---	---	---	---	---
4	20	---	---	---	---	---	21	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	46	---	---	---	---	---
13	---	---	---	---	---	59	71	---	---	---	---	---
14	---	---	---	---	---	163	42	---	---	---	---	---
15	---	---	---	---	---	139	---	---	---	---	---	---
16	---	---	---	---	---	287	---	---	---	---	---	---
17	---	---	---	---	---	257	---	---	---	---	---	---
18	---	---	---	---	---	68	---	---	---	---	---	---
19	---	---	---	---	---	28	---	---	---	---	---	---
20	---	---	---	121	---	21	---	---	---	---	---	---
21	---	---	---	139	---	---	---	---	---	---	---	---
22	---	---	---	179	---	---	---	---	---	---	---	---
23	---	---	---	311	---	---	---	---	---	---	---	---
24	---	---	---	95	---	63	---	---	---	---	---	---
25	---	---	---	26	---	124	---	---	---	---	---	---
26	---	---	---	---	---	61	---	---	---	---	---	---
27	---	---	---	---	---	129	---	---	---	---	---	---
28	---	---	---	---	---	193	---	---	---	---	---	---
29	---	---	---	---	---	75	---	---	---	---	---	---
30	---	---	---	---	---	37	---	---	---	---	---	---
31	---	---	---	---	---	77	---	---	---	---	---	---

11459150 Petaluma River at Copeland Pumping Station, at Petaluma, CA—Continued

