



## StreamStats Data-Collection Station Report

**USGS Station Number** 11378000  
**Station Name** SACRAMENTO R NR RED BLUFF CA

[Click here to link to available data on NWIS-Web for this site.](#)

### Descriptive Information

Station Type	Streamgage, continuous record
Location	
Gage	
Regulation and Diversions	
Regulated?	Unknown
Period of Record	
Remarks	
Latitude (degrees NAD83)	40.2318222
Longitude (degrees NAD83)	-122.18166329
Hydrologic unit code	18020103
County	-
HCDN2009	No

### Physical Characteristics

Characteristic Name	Value	Units	Citation Number
<b>Descriptive Information</b>			
Datum_of_Latitude_Longitude	NAD83	dimensionless	<a href="#">30</a>
District_Code	06	dimensionless	<a href="#">30</a>
Begin_date_of_record	10/1/1902	days	<a href="#">41</a>
End_date_of_record	9/30/1968	days	<a href="#">41</a>
Number_of_days_of_record	24107	days	<a href="#">41</a>
Number_of_days_GT_0	24107	days	<a href="#">41</a>
<b>Precipitation Statistics</b>			
24_Hour_2_Year_Precipitation	4.5000	inches	<a href="#">31</a>
Mean_Annual_Precipitation	37.000	inches	<a href="#">31</a>
<b>Climate Characteristics</b>			
Mean_Annual_Lake_Evaporation	46.000	inches	<a href="#">31</a>
<b>Temperature Statistics</b>			
Mean_Min_January_Temperature	37.000	degrees F	<a href="#">31</a>
<b>Topographical Characteristics</b>			
Elevation_of_10_and_85_points	2350.00	feet	<a href="#">31</a>
Percent_above_5000_ft	30.000	percent	<a href="#">31</a>
Mean_Basin_Elevation	4079.568	feet	<a href="#">219</a>
<b>Land Cover Characteristics</b>			
Percent_Forest	71.000	percent	<a href="#">31</a>
Percent_Storage	0.5800	percent	<a href="#">31</a>
<b>Stream Channel Properties</b>			
Main_Channel_Length	298.000	miles	<a href="#">31</a>
Stream_Slope_10_and_85_Method	17.700	feet per mi	<a href="#">31</a>
<b>Basin Dimensional Characteristics</b>			
Contributing_Drainage_Area	9020.00	square miles	<a href="#">31</a>
Drainage_Area	9020.00	square miles	<a href="#">31</a>

### Streamflow Statistics

Citation	Years of	Standard Error, Variance	Lower 95%	Upper 95% Confidence	Start Date	End D
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Statistic Name	Value	Units	Number Preferred?	Record	percent	log-10	Confidence Interval
<b>Peak-Flow Statistics</b>							
42_9_percent_AEP_flood	70000.0	cubic feet per second	<a href="#">31</a>	Y			
50_percent_AEP_flood	94600	cubic feet per second	<a href="#">219</a>	Y			
20_percent_AEP_flood	148000	cubic feet per second	<a href="#">219</a>	Y			
10_percent_AEP_flood	186000	cubic feet per second	<a href="#">219</a>	Y			
4_percent_AEP_flood	234000	cubic feet per second	<a href="#">219</a>	Y			
2_percent_AEP_flood	271000	cubic feet per second	<a href="#">219</a>	Y			
1_percent_AEP_flood	308000	cubic feet per second	<a href="#">219</a>	Y			
0_5_percent_AEP_flood	346000	cubic feet per second	<a href="#">219</a>	Y			
0_2_percent_AEP_flood	397000	cubic feet per second	<a href="#">219</a>	Y			
WRC_Mean	4.967595	Log base 10	<a href="#">219</a>	Y			
WRC_STD	0.239923	Log base 10	<a href="#">219</a>	Y			
WRC_Skew	-0.211556	Log base 10	<a href="#">219</a>	Y			
Systematic_peak_years	87	years	<a href="#">219</a>	Y			
Peak_years_with_historic_adjustment	90	years	<a href="#">219</a>	Y			
Regional_skew	-0.196735491370851	Log base 10	<a href="#">219</a>	Y			
Regional_skew_mean_squared_error	0.13	Log base 10 squared	<a href="#">219</a>	Y			
Period_of_record_of_historic_peaks	1879-1968	years	<a href="#">219</a>	Y			
<b>Flood-Volume Statistics</b>							
1_Day_2_Year_Maximum	97900.0	cubic feet per second	<a href="#">31</a>	Y			
1_Day_50_Year_Maximum	269000	cubic feet per second	<a href="#">31</a>	Y			
3_Day_2_Year_Maximum	73700.0	cubic feet per second	<a href="#">31</a>	Y			
3_Day_50_Year_Maximum	202000	cubic feet per second	<a href="#">31</a>	Y			
7_Day_2_Year_Maximum	55300.0	cubic feet per second	<a href="#">31</a>	Y			
7_Day_50_Year_Maximum	148000	cubic feet per second	<a href="#">31</a>	Y			
15_Day_2_Year_Maximum	41300.0	cubic feet per second	<a href="#">31</a>	Y			
15_Day_50_Year_Maximum	108000	cubic feet per second	<a href="#">31</a>	Y			
<b>Flow-Duration Statistics</b>							
1_Percent_Duration	70200	cubic feet per second	<a href="#">325</a>	Y	66		10/1/1902 9/30/19
2_Percent_Duration	53800	cubic feet per second	<a href="#">325</a>	Y	66		10/1/1902 9/30/19
3_Percent_Duration	43200	cubic feet per second	<a href="#">325</a>	Y	66		10/1/1902 9/30/19
5_Percent_Duration	32000	cubic feet per second	<a href="#">325</a>	Y	66		10/1/1902 9/30/19
10_Percent_Duration	20900	cubic feet per second	<a href="#">325</a>	Y	66		10/1/1902 9/30/19
15_Percent_Duration	16300	cubic feet per second	<a href="#">325</a>	Y	66		10/1/1902 9/30/19
20_Percent_Duration	13600	cubic feet per second	<a href="#">325</a>	Y	66		10/1/1902 9/30/19
25_Percent_Duration	11700	cubic feet per second	<a href="#">325</a>	Y	66		10/1/1902 9/30/19
30_Percent_Duration	10600	cubic feet per second	<a href="#">325</a>	Y	66		10/1/1902 9/30/19
35_Percent_Duration	9720	cubic feet per second	<a href="#">325</a>	Y	66		10/1/1902 9/30/19
40_Percent_Duration	8910	cubic feet per second	<a href="#">325</a>	Y	66		10/1/1902 9/30/19
45_Percent_Duration	8270	cubic feet per	<a href="#">325</a>	Y	66		10/1/1902 9/30/19

second

50_Percent_Duration	7480	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
55_Percent_Duration	6730	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
60_Percent_Duration	6120	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
65_Percent_Duration	5720	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
70_Percent_Duration	5340	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
75_Percent_Duration	4950	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
80_Percent_Duration	4590	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
85_Percent_Duration	4200	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
90_Percent_Duration	3700	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
95_Percent_Duration	3180	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
97_Percent_Duration	2980	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
98_Percent_Duration	2860	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
99_Percent_Duration	2700	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19

**Annual Flow Statistics**

Mean_Annual_Flow	11200	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
Stand_Dev_of_Mean_Annual_Flow	4370	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
Maximum_Annual_Mean_Flow	22200	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
Minimum_Annual_Mean_Flow	4100	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19

**Monthly Flow Statistics**

January_Mean_Flow	19000.0	cubic feet per second	<a href="#">31</a>	Y		
January_STD	14700.0	cubic feet per second	<a href="#">31</a>	Y		
February_Mean_Flow	25100.0	cubic feet per second	<a href="#">31</a>	Y		
February_STD	16400.0	cubic feet per second	<a href="#">31</a>	Y		
March_Mean_Flow	22100.0	cubic feet per second	<a href="#">31</a>	Y		
March_STD	13200.0	cubic feet per second	<a href="#">31</a>	Y		
April_Mean_Flow	17800.0	cubic feet per second	<a href="#">31</a>	Y		
April_STD	8060.00	cubic feet per second	<a href="#">31</a>	Y		
November_Mean_Flow	7510.00	cubic feet per second	<a href="#">31</a>	Y		
November_STD	4650.00	cubic feet per second	<a href="#">31</a>	Y		
December_Mean_Flow	11400.0	cubic feet per second	<a href="#">31</a>	Y		
December_STD	6870.00	cubic feet per second	<a href="#">31</a>	Y		

**General Flow Statistics**

Minimum_daily_flow	2010	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
Maximum_daily_flow	261000	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
Std_Dev_of_daily_flows	13100	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
Average_daily_streamflow	11206.719	cubic feet per second	<a href="#">41</a>	Y	66	
Harmonic_Mean_Streamflow	6730	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
Mean_of_Logs_of_Daily_Values	3.915056	Log base 10	<a href="#">325</a>	Y	66	10/1/1902 9/30/19

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Std_Dev_of_Logs_of_Daily_Values	0.304392	Log base 10	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
Skew_of_Logs_of_Daily_Values	0.948053	Log base 10	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
Non_Zero_Adjusted_Harmonic_Mean_Flow	6730	cubic feet per second	<a href="#">325</a>	Y	66	10/1/1902 9/30/19
<b>Base Flow Statistics</b>						
Number_of_years_to_compute_BFI	66	years	<a href="#">42</a>	Y	66	
Average_BFI_value	0.744	dimensionless	<a href="#">42</a>	Y	66	
Std_dev_of_annual_BFI_values	0.098	dimensionless	<a href="#">42</a>	Y	66	
<b>Probability Statistics</b>						
Probability_flow_durations_are_zero	0	dimensionless	<a href="#">325</a>	Y	66	10/1/1902 9/30/19

### Citations

<b>Citation Number</b>	<b>Citation Name and URL</b>
31	Imported from Basin Characteristics file
41	<a href="#">Wolock, D.M., 2003, Flow characteristics at U.S. Geological Survey streamgages in the conterminous United States: U.S. Geological Survey Open-File Report 03-146, digital data set</a>
42	<a href="#">Wolock, D.M., 2003, Base-flow index grid for the conterminous United States: U.S. Geological Survey Open-File Report 03-263, digital data set</a>
219	<a href="#">Parrett, C., Veilleux, A., Stedinger, J.R., Barth, N.A., Knifong, D.L., and Ferris, J.C., 2011, Regional skew for California, and flood frequency for selected sites in the Sacramento-San Joaquin River Basin, based on data through water year 2006: U.S. Geological Survey Scientific Investigations Report 2010-5260, 94 p.</a>
325	<a href="#">Granato G.E., Ries, K.G., III, and Steeves, P.A., 2017, Compilation of streamflow statistics calculated from daily mean streamflow data collected during water years 1901-2015 for selected U.S. Geological Survey streamgages: U.S. Geological Survey Open-File Report 2017-1108, 17 p.</a>