



StreamStats Data-Collection Station Report

USGS Station Number 11453000
Station Name YOLO BYPASS NR WOODLAND CA

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

Descriptive Information

Station Type Streamgage, continuous record
 Location Lat 38°40'40", long 121°38'35" referenced to North American Datum of 1927, Yolo County, CA, Hydrologic Unit 18020163, unsurveyed, on left bank, 300 ft upstream from Sacramento and Woodland Railroad Bridge, 6 mi upstream from Sacramento Bypass, 6 mi downstream from Fremont Weir, and 7 mi east of Woodland.
 Gage Water-stage recorder. Datum of gage is 3.41 ft below NGVD of 1929. Prior to Dec. 17, 1941, nonrecording gage, and Dec. 18-31, 1941, water-stage recorder, at datum 0.73 ft higher. Prior to Sept. 30, 1977, a supplementary water-stage recorder 6 mi downstream at different datum recorded low flow.
 Regulation and Diversions Flow is regulated by discharge from Cache Creek, Ridge Cut, overflow over Fremont weir from Sacramento River, all of which are regulated by several dams.
 Diversion and return flow from irrigation in summer months. Discharge for the Sacramento weir (6 mi downstream) must be added in all high water measurements as the control is approximately 10 mi downstream.
 Regulated? Unknown
 Period of Record
 Remarks
 Latitude (degrees NAD83) 38.67768173
 Longitude (degrees NAD83) -121.64412663
 Hydrologic unit code 18020109
 County -
 HCDN2009 No

Physical Characteristics

Characteristic Name	Value	Units	Citation Number
Descriptive Information			
Datum_of_Latitude_Longitude	NAD83	dimensionless	30
District_Code	06	dimensionless	30
Begin_date_of_record	10/1/1939	days	41
End_date_of_record	5/14/2003	days	41
Number_of_days_of_record	16069	days	41
Number_of_days_GT_0	15028	days	41

Streamflow Statistics

Statistic Name	Value	Units	Citation Number	Years of Record Preferred?	Standard Error, Variance percent log-10	Lower 95% Confidence Interval	Upper 95% Confidence Interval	Start Date	End Date	Remarks
Flow-Duration Statistics										
1_Percent_Duration	96000	cubic feet per second	325	Y	40			10/1/1939	9/30/2015	
2_Percent_Duration	60300	cubic feet per second	325	Y	40			10/1/1939	9/30/2015	
3_Percent_Duration	41700	cubic feet per second	325	Y	40			10/1/1939	9/30/2015	
5_Percent_Duration	21800	cubic feet per second	325	Y	40			10/1/1939	9/30/2015	
10_Percent_Duration	4180	cubic feet per second	325	Y	40			10/1/1939	9/30/2015	

15_Percent_Duration	1490	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
20_Percent_Duration	716	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
25_Percent_Duration	296	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
30_Percent_Duration	140	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
35_Percent_Duration	82	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
40_Percent_Duration	63	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
45_Percent_Duration	51	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
50_Percent_Duration	41	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
55_Percent_Duration	32	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
60_Percent_Duration	25	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
65_Percent_Duration	20	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
70_Percent_Duration	15	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
75_Percent_Duration	11	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
80_Percent_Duration	7.2	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
85_Percent_Duration	4.5	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
90_Percent_Duration	2.1	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
95_Percent_Duration	0.06	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
97_Percent_Duration	0	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
98_Percent_Duration	0	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
99_Percent_Duration	0	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
Annual Flow Statistics						
Mean_Annual_Flow	4030	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
Stand_Dev_of_Mean_Annual_Flow	4800	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
Maximum_Annual_Mean_Flow	17600	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
Minimum_Annual_Mean_Flow	1.5	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
General Flow Statistics						
Minimum_daily_flow	0	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
Maximum_daily_flow	259000	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
Std_Dev_of_daily_flows	17700	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
Average_daily_streamflow	5693.277	cubic feet per second	41	Y	44	
Harmonic_Mean_Streamflow	4.2	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
Mean_of_Logs_of_Daily_Values	1.895852	Log base 10	325	Y	40	10/1/1939 9/30/2015
Std_Dev_of_Logs_of_Daily_Values	1.194832	Log base 10	325	Y	40	10/1/1939 9/30/2015
Skew_of_Logs_of_Daily_Values	0.64828	Log base 10	325	Y	40	10/1/1939 9/30/2015
Non_Zero_Adjusted_Harmonic_Mean_Flow	4.4	cubic feet per second	325	Y	40	10/1/1939 9/30/2015
Base Flow Statistics						
Number_of_years_to_compute_BFI	43	years	42	Y	44	
Average_BFI_value	0.161	dimensionless	42	Y	44	
Std_dev_of_annual_BFI_values	0.127	dimensionless	42	Y	44	
Probability Statistics						
Probability_flow_durations_are_zero	0.048597	dimensionless	325	Y	40	10/1/1939 9/30/2015

Citations

Citation Number	Citation Name and URL
41	<u>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</u>
42	<u>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</u>
325	<u>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.</u>
