USGS Station Number 11478500

Station Name VAN DUZEN RIVER NEAR BRIDGEVILLE CA

SUMMARY OF DISCHARGE DATA

Mean Monthly Discharge
Cumulative Departure from Mean Annual Discharge
Timing of Runoff
Maximum and Minimum 7-Day, 30-Day, 90-Day Discharge
Recurrence Intervals and Flow Duration

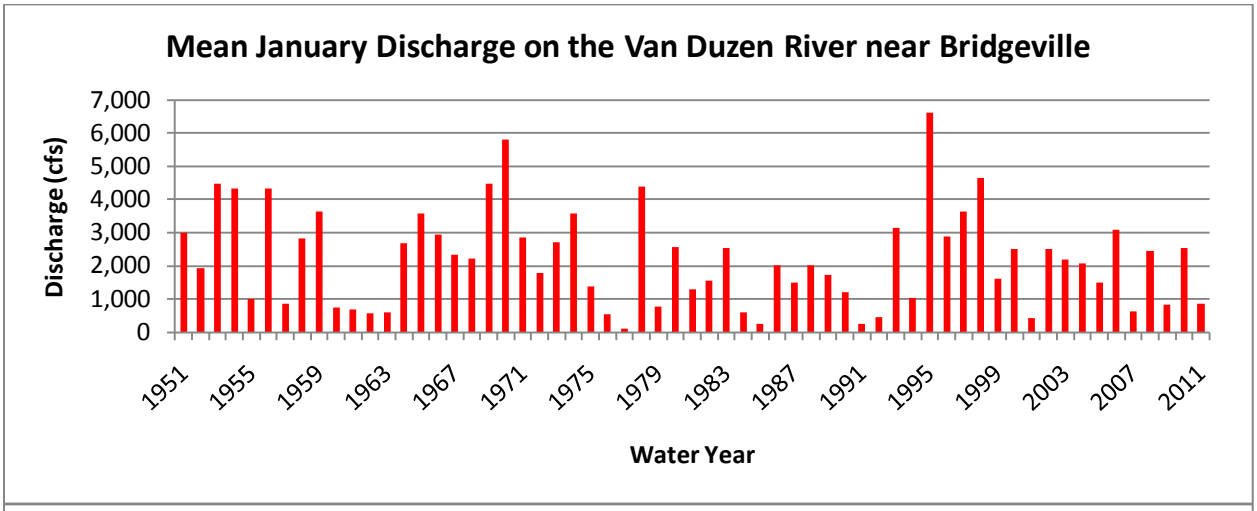
Data available at: http://waterdata.usgs.gov/ca/nwis/

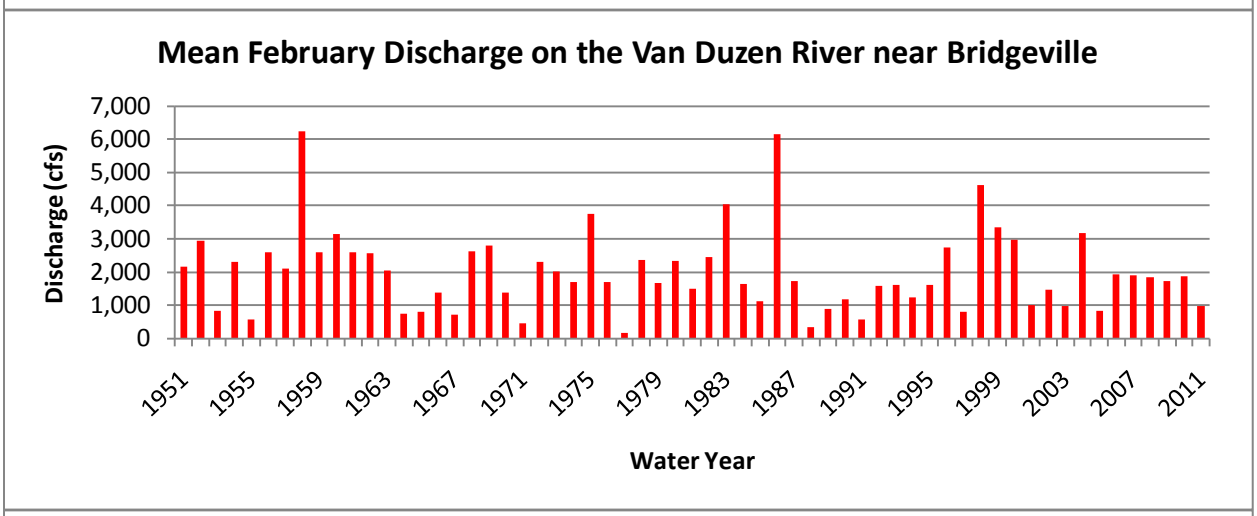
The U.S. Geological Survey's (USGS) National Water Information System (NWIS) is a comprehensive and distributed application that supports the acquisition, processing, and long-term storage of water data.

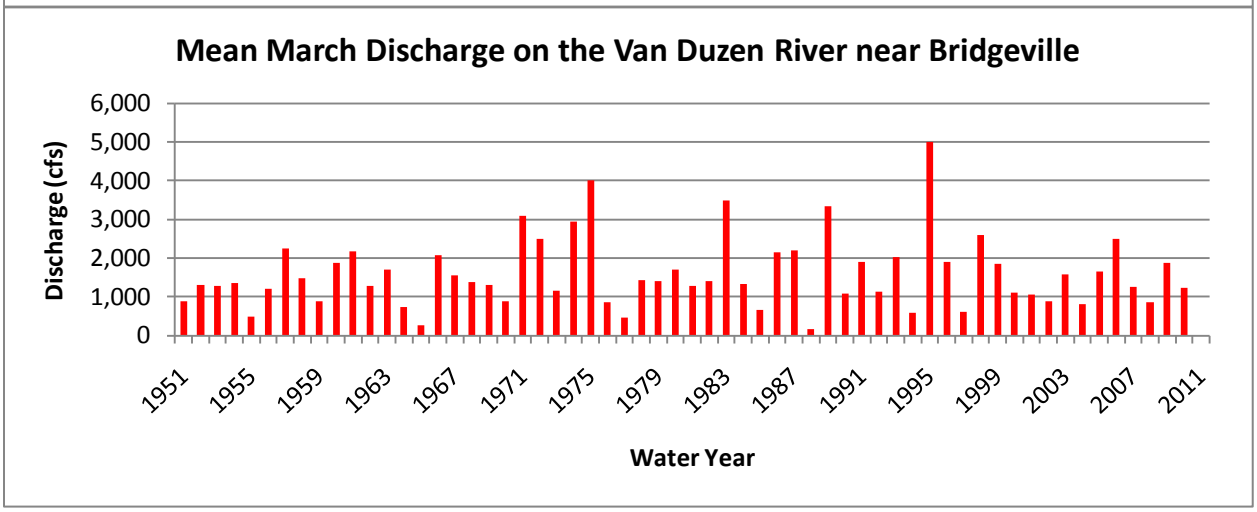
Descriptive Information

Period of Record	1951 to 2011
Latitude (degrees NAD83)	40.48041636
Longitude (degrees NAD83)	-123.89087609
Hydrologic unit code	18010105

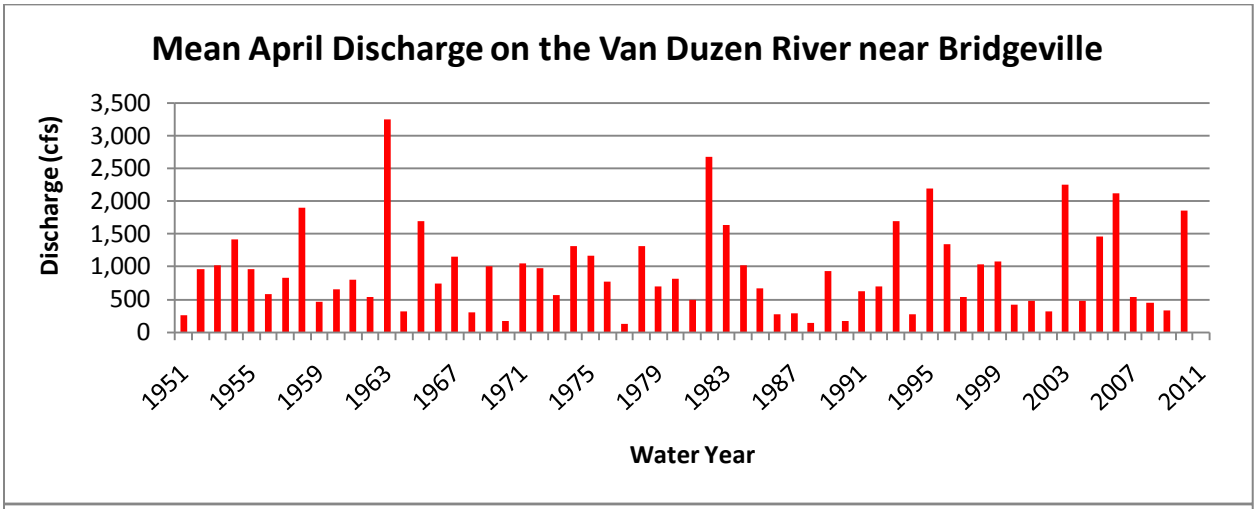
MONTHLY DISCHARGE

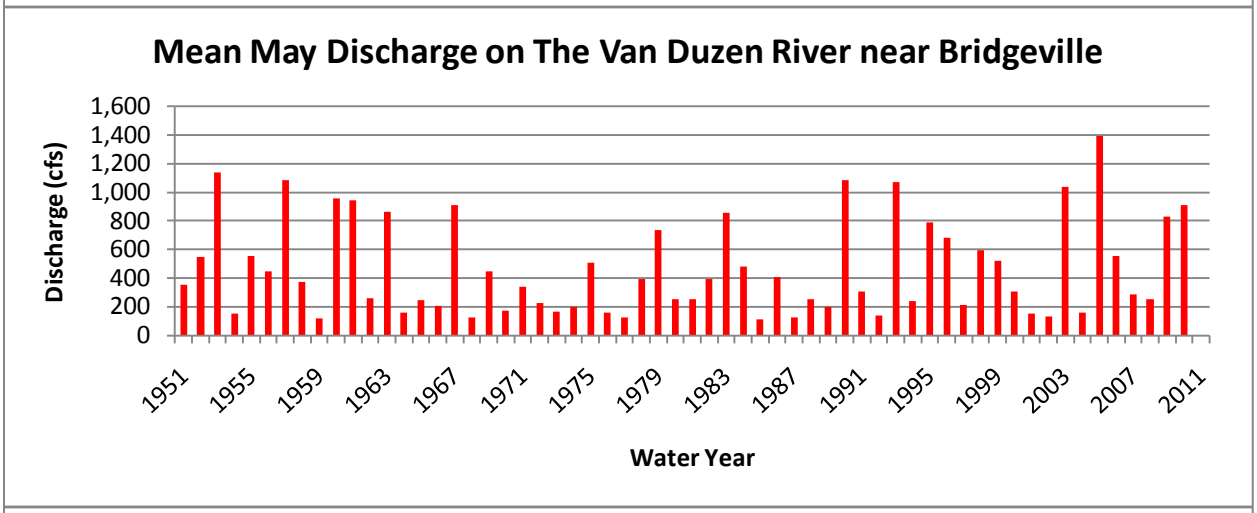


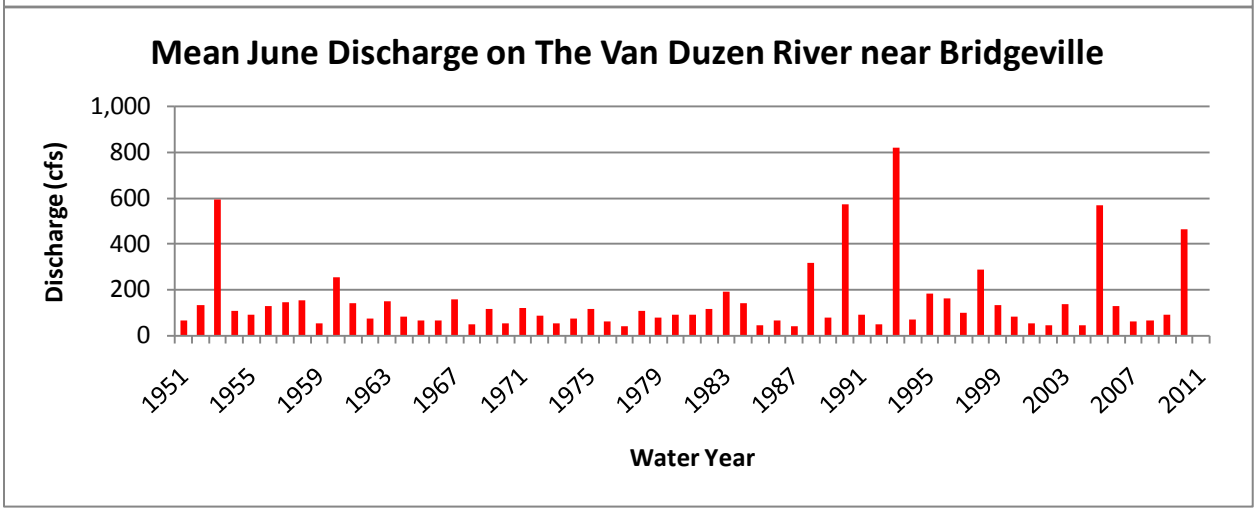




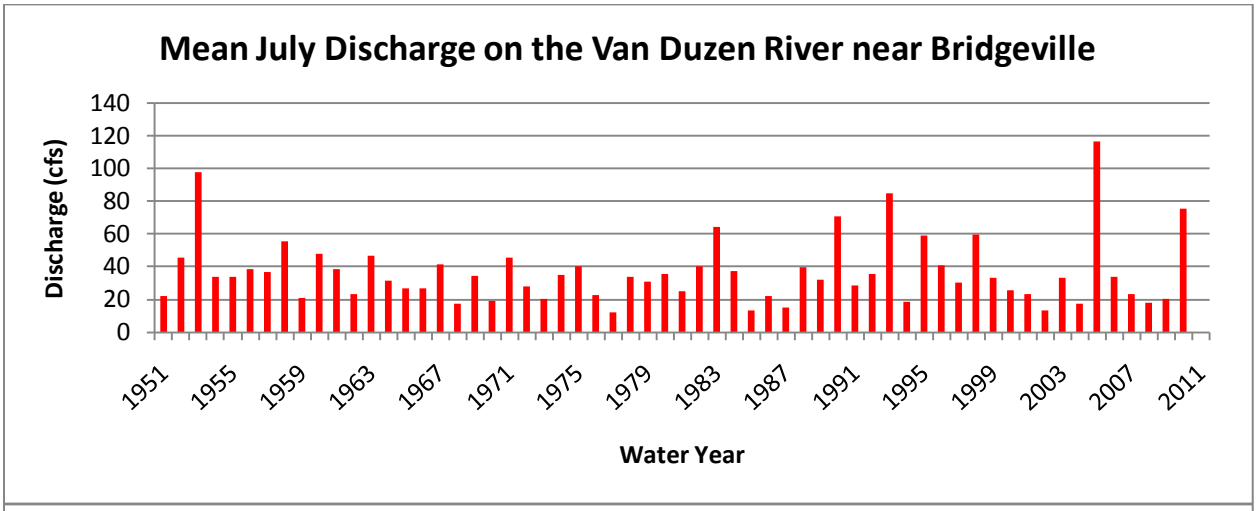
MONTHLY DISCHARGE

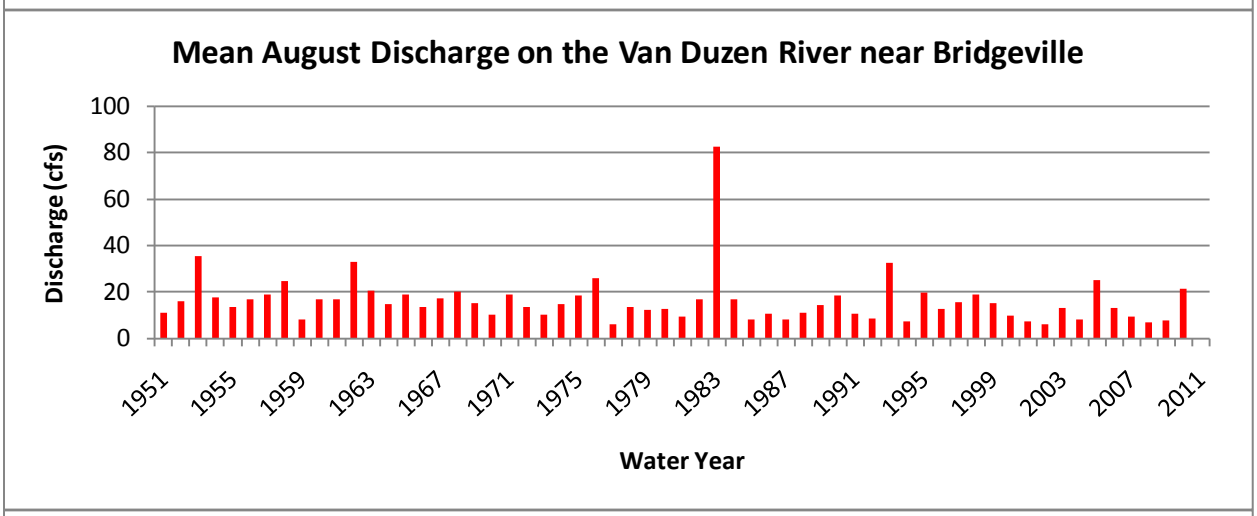


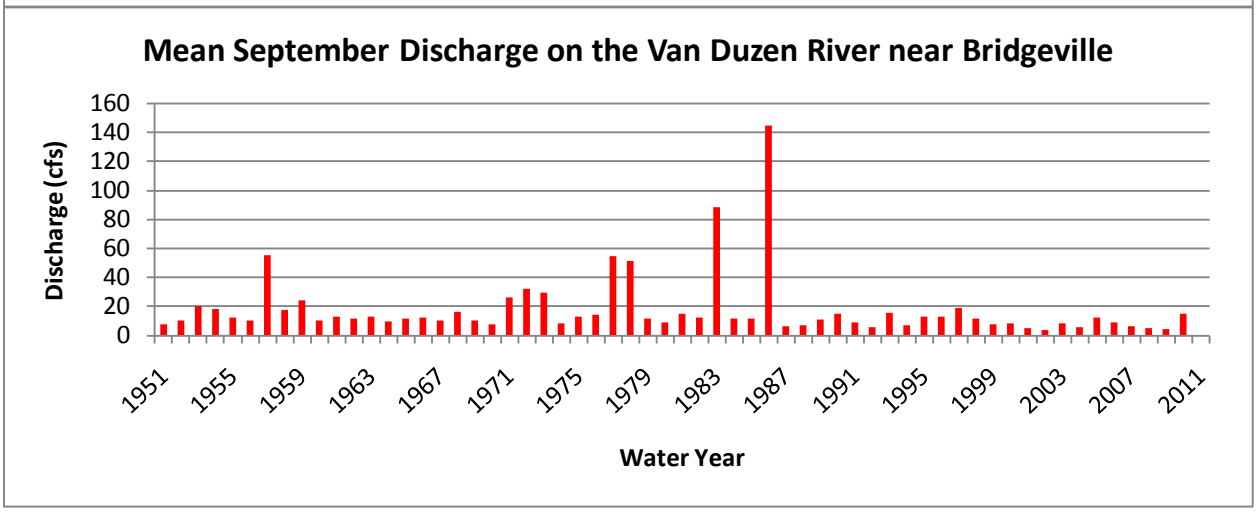




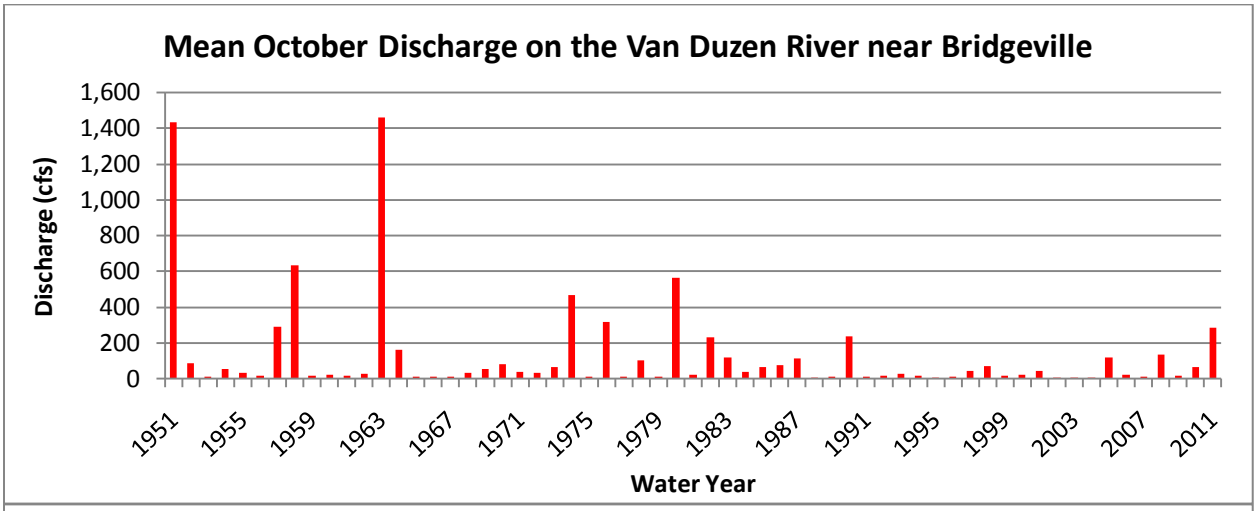
MONTHLY DISCHARGE

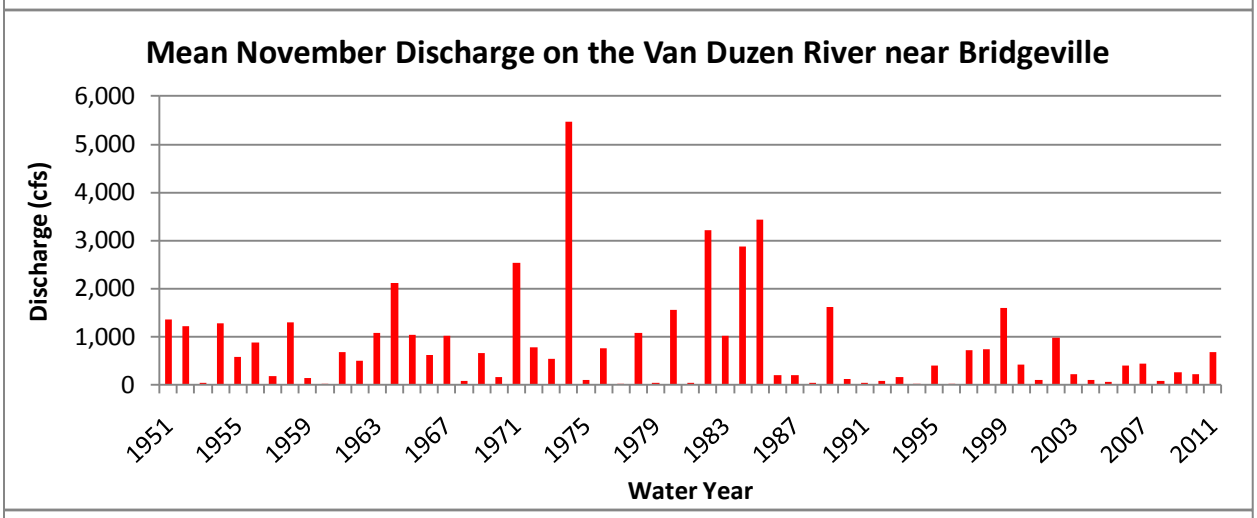


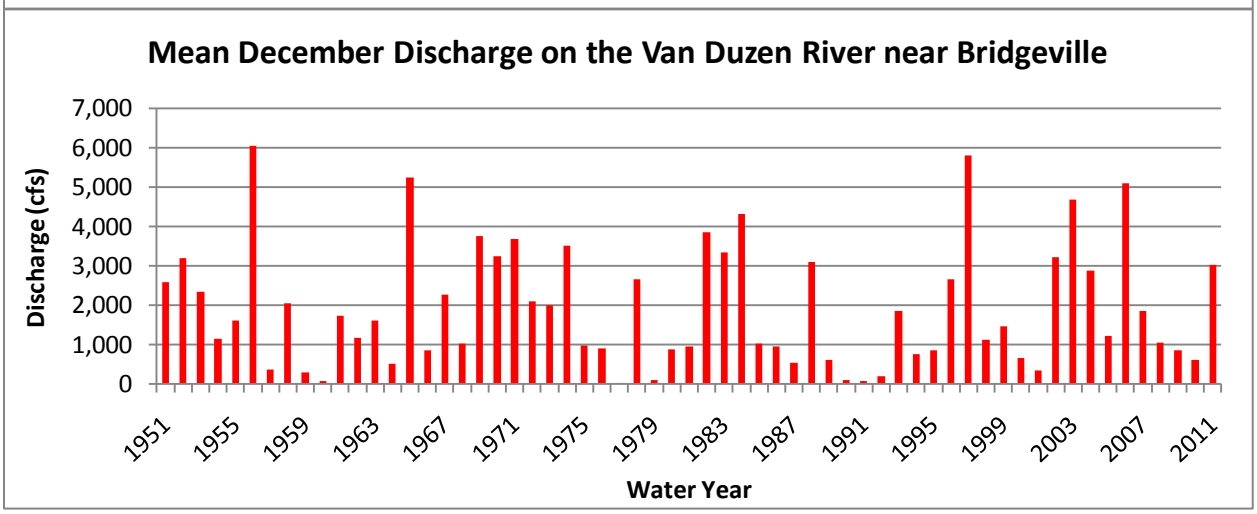


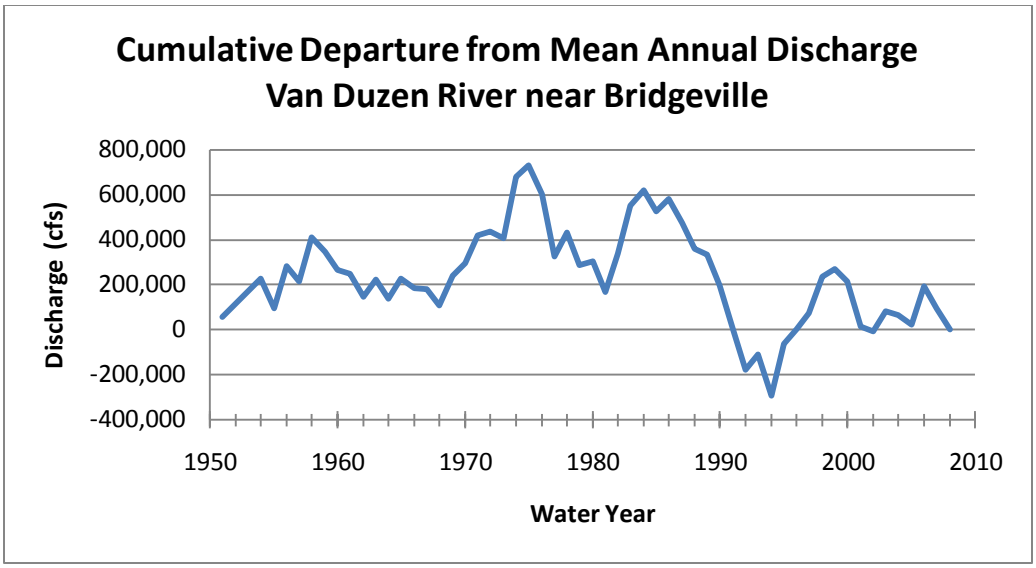


MONTHLY DISCHARGE

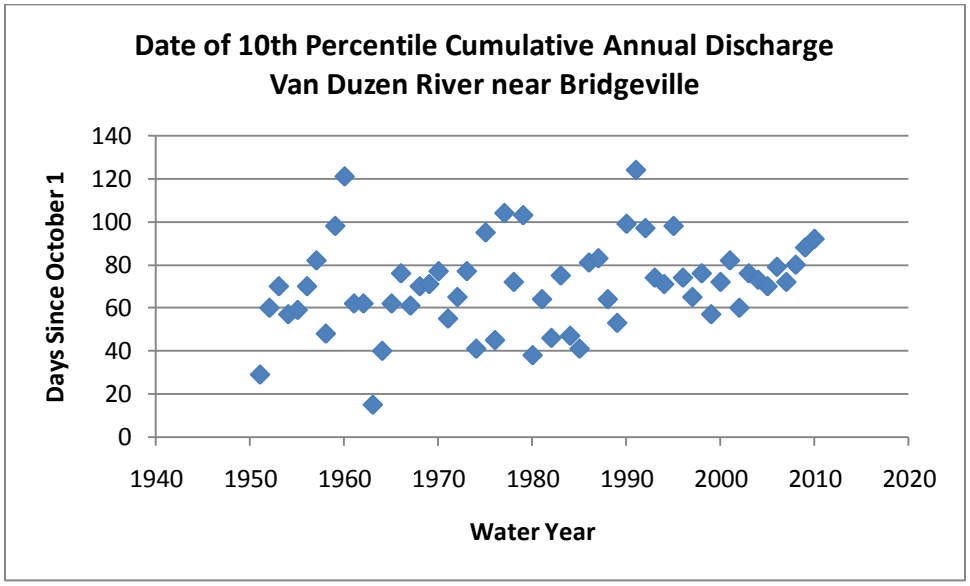


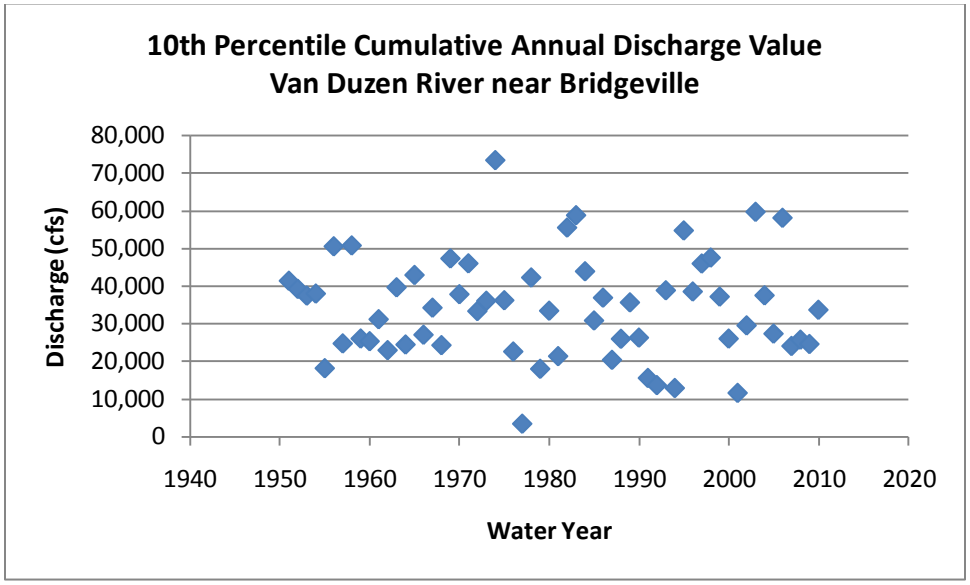




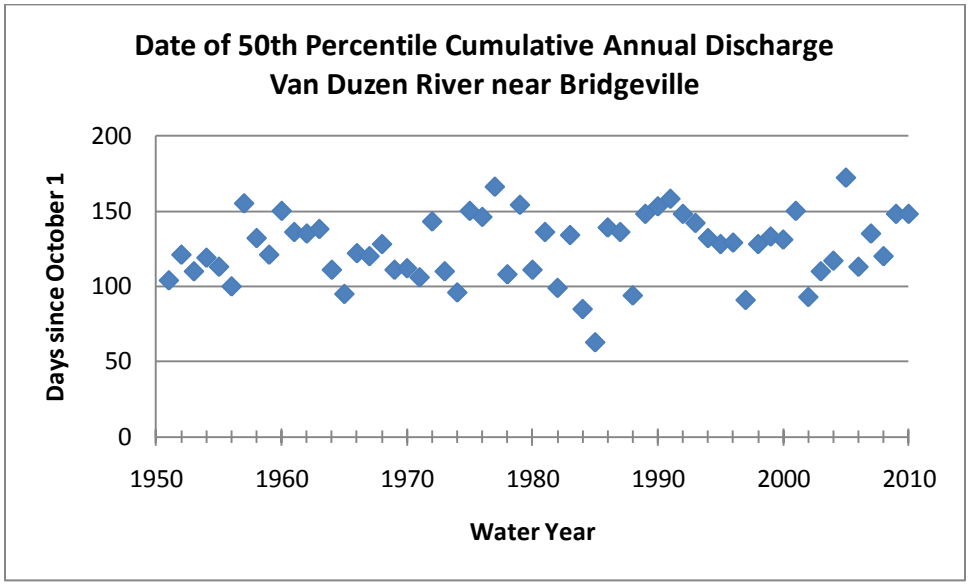

Cumulative Departure from Mean Annual Discharge
Van Duzen River near Bridgeville
Discharge (cfs)
800,000
600,000
400,000
200,000
0
-200,000
-400,000
1950
1960
1970
1980
1990
2000
2010
Water Year

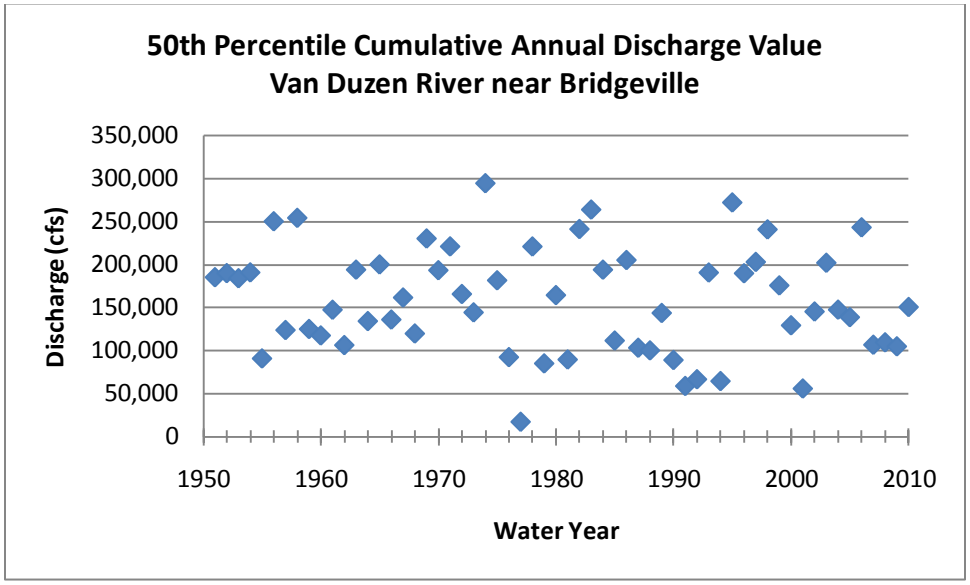
TIMING OF RUNOFF



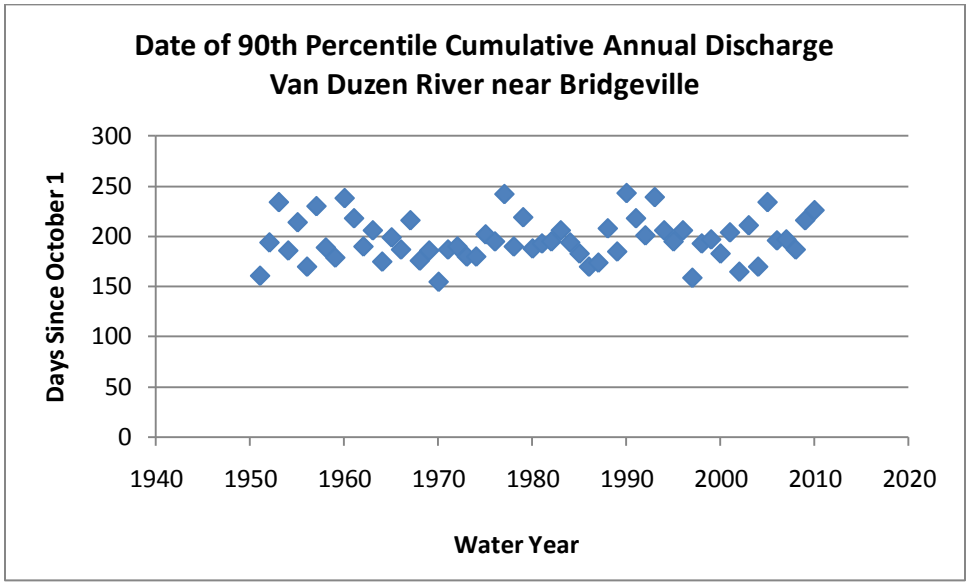


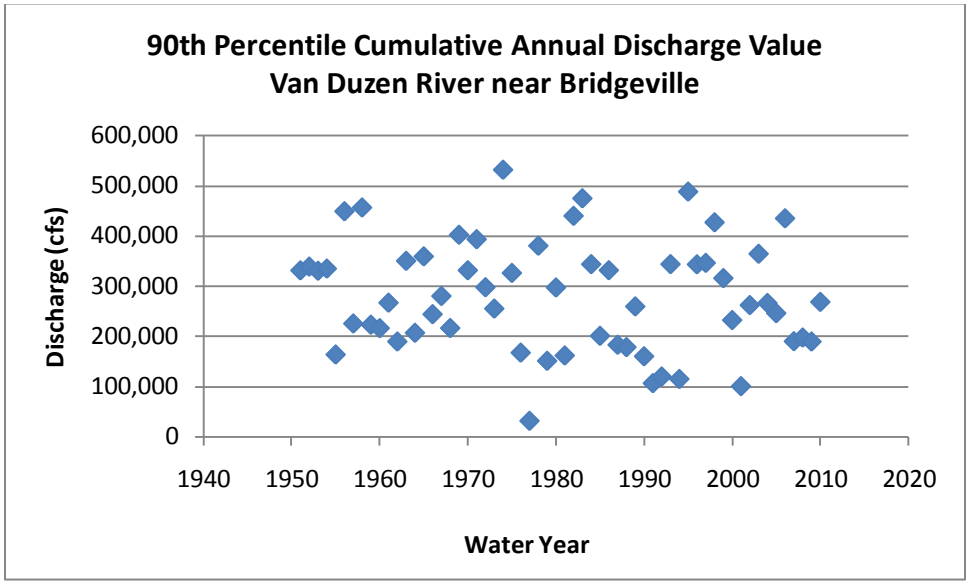
TIMING OF RUNOFF

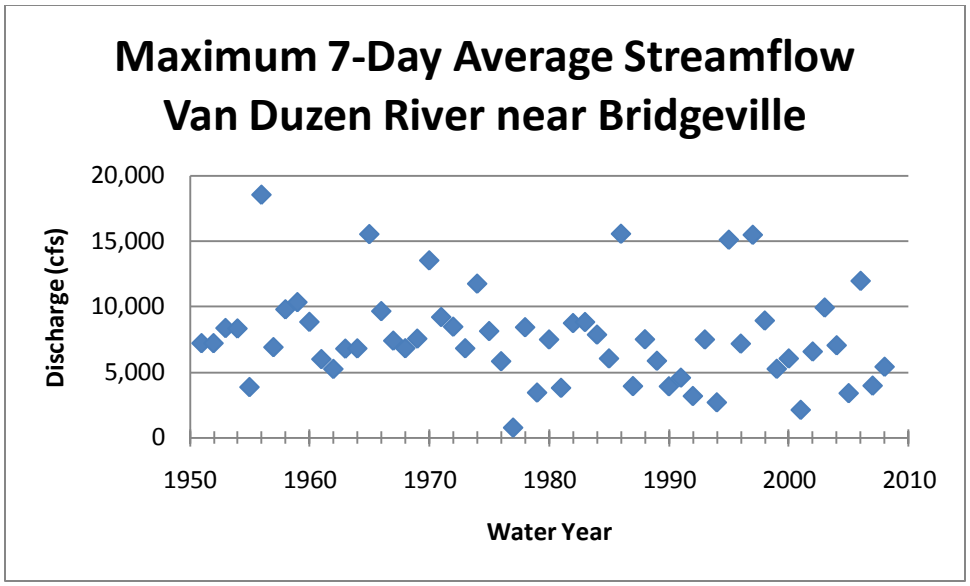


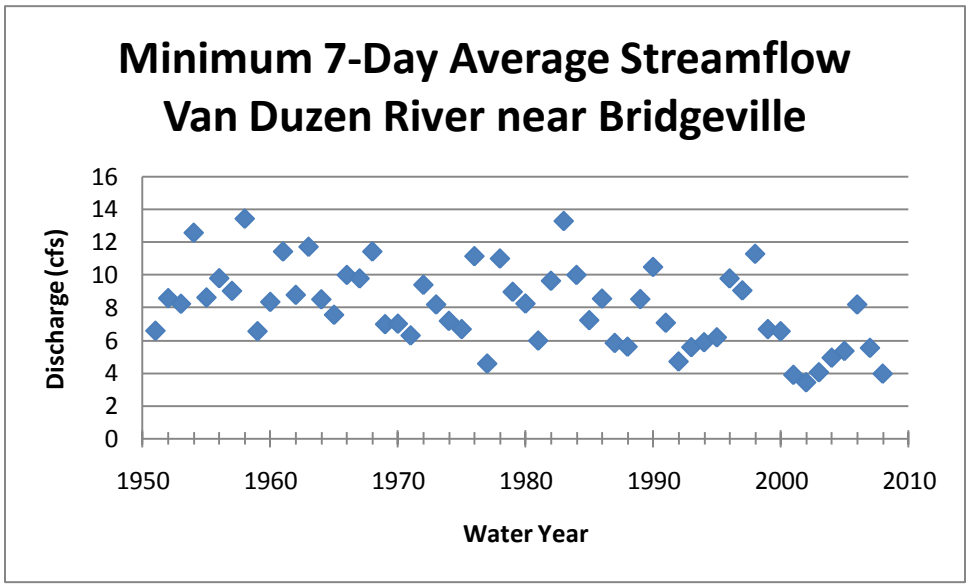


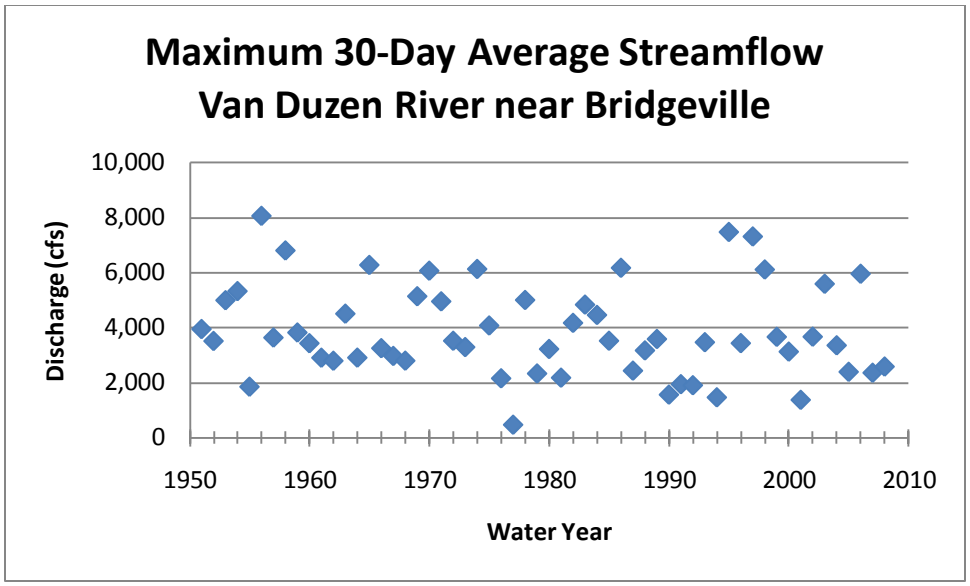
TIMING OF RUNOFF

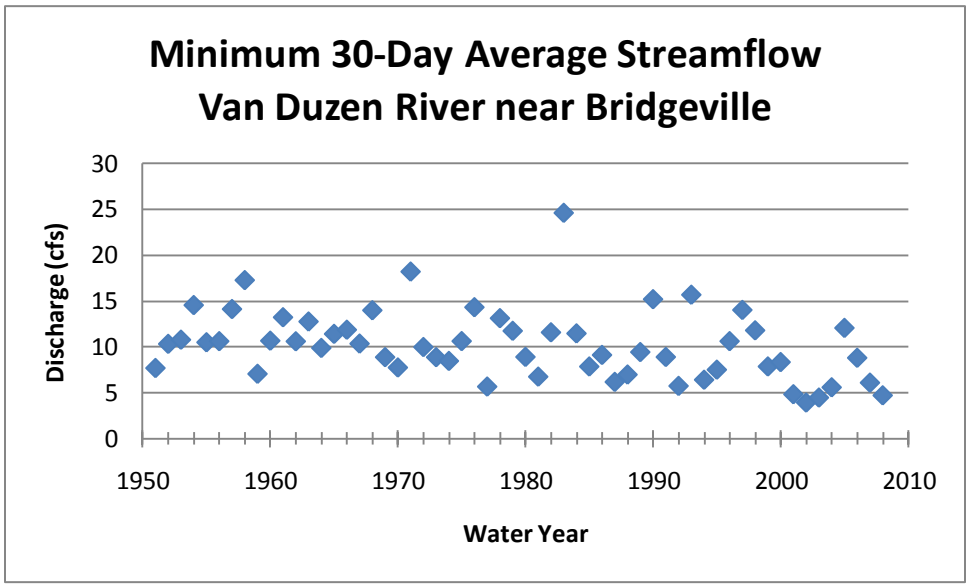


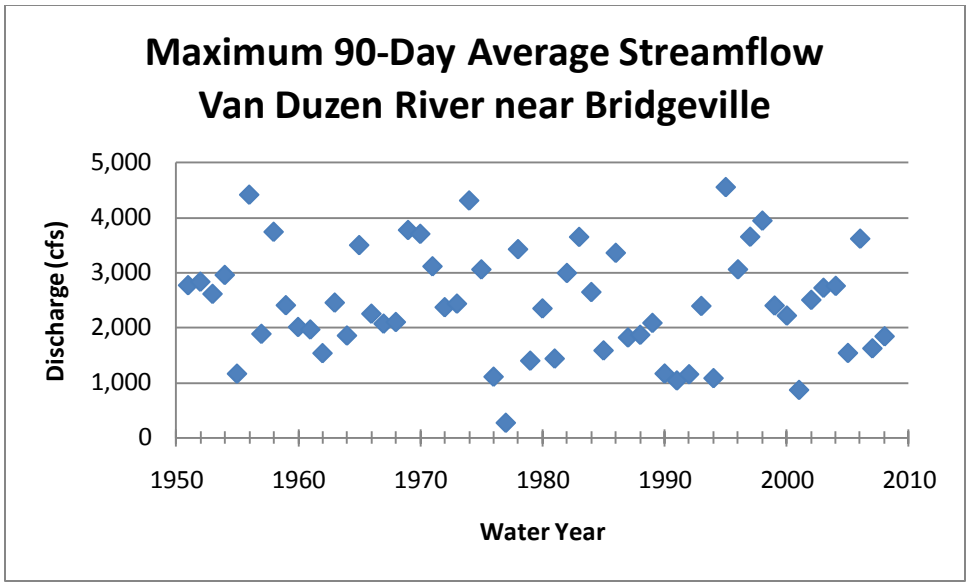


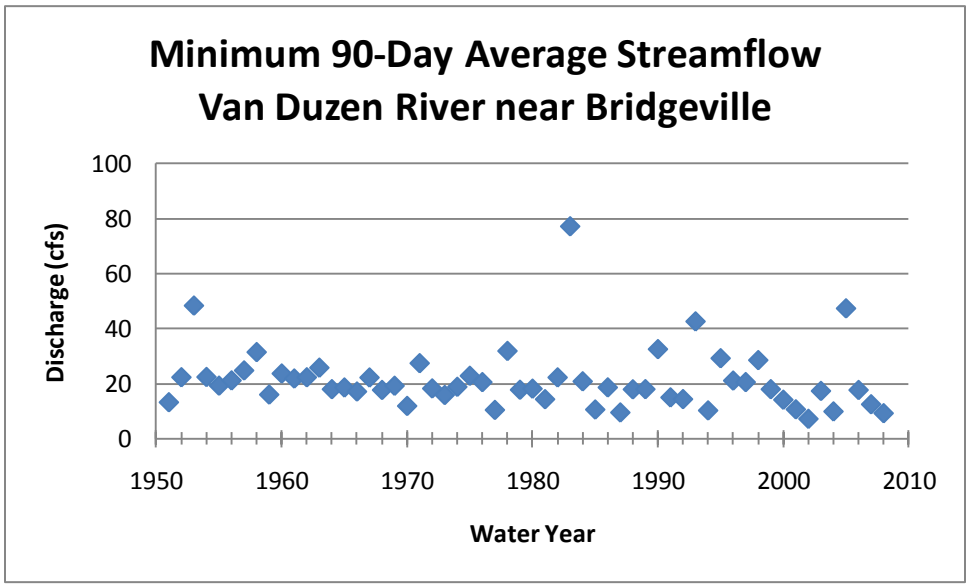

Maximum 7-Day Average Streamflow
Van Duzen River near Bridgeville
Discharge (cfs)
20,000
15,000
10,000
5,000
0
1950
1960
1970
1980
1990
2000
2010
Water Year


Minimum 7-Day Average Streamflow
Van Duzen River near Bridgeville
Discharge (cfs)
16
14
12
10
8
6
4
2
0
1950
1960
1970
1980
1990
2000
2010
Water Year


Maximum 30-Day Average Streamflow
Van Duzen River near Bridgeville
Discharge (cfs)
10,000
8,000
6,000
4,000
2,000
0
1950
1960
1970
1980
1990
2000
2010
Water Year


Minimum 30-Day Average Streamflow
Van Duzen River near Bridgeville
Discharge (cfs)
30
25
20
15
10
5
0
1950
1960
1970
1980
1990
2000
2010
Water Year


Maximum 90-Day Average Streamflow
Van Duzen River near Bridgeville
Discharge (cfs)
5,000
4,000
3,000
2,000
1,000
0
1950
1960
1970
1980
1990
2000
2010
Water Year


Minimum 90-Day Average Streamflow
Van Duzen River near Bridgeville
Discharge (cfs)
100
80
60
40
20
0
1950
1960
1970
1980
1990
2000
2010
Water Year

RECURRENCE INTERVALS AND FLOW DURATION

Physical Characteristics

Characteristic Name	Value	Units	Citation Number
Contributing_Drainage_Area	222.000	square miles	31
Drainage_Area	222	square miles	30
Elevation_of_10_and_85_points	1700.00	feet	31
Percent_above_5000_ft	3.4000	percent	31
Percent_above_6000_ft	0	percent	219
Latitude_of_Basin_Centroid	40.4222261412	decimal degrees	219
Longitude_of_Basin_Centroid	-123.632210747	decimal degrees	219
Main_Channel_Length	47.600	miles	31
Maximum_Basin_Elevation	5872.66171906	feet	219
Mean_Basin_Elevation	3031.883	feet	219
Percent_Forest	46.605	percent	219
Percent_Impervious	0.05	percent	219
Percent_Lakes_and_Ponds	0.359155239238	percent	219
Percent_Storage	0.0000	percent	31
Relative_Relief	44.0480429661	feet per mi	219
Relief	5504.96006039	feet	219
Stream_Slope_10_and_85_Method	62.000	feet per mi	31
Mean_Basin_Slope_from_30m_DEM	31.519	percent	219
Basin_Perimeter	124.976268877	miles	219
Elevation_of_Gage	368.489098647	feet	219

Streamflow Statistics

Statistic Name	Value	Units	Citation Number
Peak-Flow Statistics			
10_Year_Peak_Flood	35300	cubic feet per second	219
100_Year_Peak_Flood	50200	cubic feet per second	219
2_Year_Peak_Flood	21000	cubic feet per	219

		second	
200_Year_Peak_Flood	54100	cubic feet per second	219
25_Year_Peak_Flood	41700	cubic feet per second	219
5_Year_Peak_Flood	29900	cubic feet per second	219
50_Year_Peak_Flood	46100	cubic feet per second	219
500_Year_Peak_Flood	59100	cubic feet per second	219
Log_Mean_of_Annual_Peaks	4.3300	Log base 10	31
Log_Skew_of_Annual_Peaks	-0.3130	Log base 10	31
Log_STD_of_Annual_Peaks	0.1700	Log base 10	31
Mean_Annual_Flood	15500.0	cubic feet per second	31
Peak_years_with_historic_adjustment	67	years	219
Period_of_record_of_historic_peaks	1940-2006	years	219
Regional_skew	-0.365813121863635	Log base 10	219
Regional_skew_mean_squared_error	0.13	Log base 10 squared	219
Systematic_peak_years	67	years	219
WRC_Mean	4.30914	Log base 10	219
WRC_Skew	-0.513466	Log base 10	219
WRC_STD	0.195477	Log base 10	219
Flood-Volume Statistics			
1_Day_2_Year_Maximum	16728.0	cubic feet per second	31
1_Day_50_Year_Maximum	35518.0	cubic feet per second	31
15_Day_2_Year_Maximum	5767.00	cubic feet per second	31
15_Day_50_Year_Maximum	10216.0	cubic feet per second	31
3_Day_2_Year_Maximum	11917.0	cubic feet per second	31
3_Day_50_Year_Maximum	27187.0	cubic feet per second	31
7_Day_2_Year_Maximum	7823.00	cubic feet per second	31

7_Day_50_Year_Maximum	19093.0	cubic feet per second	31
Low-Flow Statistics			
30_Day_2_Year_Low_Flow	10.760	cubic feet per second	31
30_Day_20_Year_Low_Flow	7.2400	cubic feet per second	31
7_Day_2_Year_Low_Flow	9.3400	cubic feet per second	31
7_Day_20_Year_Low_Flow	6.5800	cubic feet per second	31
Flow-Duration Statistics			
1_Percent_Duration	10192	cubic feet per second	41
10_Percent_Duration	2140	cubic feet per second	41
20_Percent_Duration	1120	cubic feet per second	41
25_Percent_Duration	857	cubic feet per second	41
30_Percent_Duration	648.1	cubic feet per second	41
40_Percent_Duration	360	cubic feet per second	41
5_Percent_Duration	3840	cubic feet per second	41
50_Percent_Duration	179	cubic feet per second	41
60_Percent_Duration	78	cubic feet per second	41
70_Percent_Duration	35	cubic feet per second	41
75_Percent_Duration	24	cubic feet per second	41
80_Percent_Duration	18	cubic feet per second	41
90_Percent_Duration	11	cubic feet per second	41
95_Percent_Duration	8.6	cubic feet per second	41
99_Percent_Duration	5.6	cubic feet per second	41

Annual Flow Statistics			
Mean_Annual_Flow	937.000	cubic feet per second	31
Stand_Dev_of_Mean_Annual_Flow	262.900	cubic feet per second	31
Monthly Flow Statistics			
April_Mean_Flow	1033.00	cubic feet per second	31
April_STD	731.100	cubic feet per second	31
August_Mean_Flow	18.490	cubic feet per second	31
August_STD	7.0000	cubic feet per second	31
December_Mean_Flow	1951.00	cubic feet per second	31
December_STD	1648.00	cubic feet per second	31
February_Mean_Flow	2136.00	cubic feet per second	31
February_STD	1368.00	cubic feet per second	31
January_Mean_Flow	2387.00	cubic feet per second	31
January_STD	1426.00	cubic feet per second	31
July_Mean_Flow	39.290	cubic feet per second	31
July_STD	18.040	cubic feet per second	31
June_Mean_Flow	144.600	cubic feet per second	31
June_STD	126.000	cubic feet per second	31
March_Mean_Flow	1342.00	cubic feet per second	31
March_STD	574.000	cubic feet per second	31
May_Mean_Flow	548.100	cubic feet per second	31
May_STD	359.300	cubic feet per second	31

November_Mean_Flow	828.400	cubic feet per second	31
November_STD	562.600	cubic feet per second	31
October_Mean_Flow	253.600	cubic feet per second	31
October_STD	477.100	cubic feet per second	31
September_Mean_Flow	15.820	cubic feet per second	31
September_STD	11.060	cubic feet per second	31
General Flow Statistics			
Average_daily_streamflow	861.335	cubic feet per second	41
Maximum_daily_flow	33900	cubic feet per second	41
Minimum_daily_flow	3.3	cubic feet per second	41
Std_Dev_of_daily_flows	1960.802	cubic feet per second	41
Base Flow Statistics			
Average_BFI_value	0.334	dimensionless	42
Number_of_years_to_compute_BFI	53	years	42
Std_dev_of_annual_BFI_values	0.074	dimensionless	42
Precipitation Statistics			
24_Hour_2_Year_Precipitation	4.5000	inches	31
Mean_Annual_Precipitation	73.824	inches	219
Climate Characteristics			
Mean_Annual_Lake_Evaporation	40.000	inches	31
Temperature Statistics			
Mean_Min_January_Temperature	36.000	degrees F	31

Citations

Citation Number	Citation Name and URL
219	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.

30	Imported from NWIS file
31	Imported from Basin Characteristics file
41	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