

**USGS Station Number** 11532500  
**Station Name** SMITH RIVER NEAR CRESCENT CITY CA

## **SUMMARY OF DISCHARGE DATA**

[Peak Flows](#)

[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:**

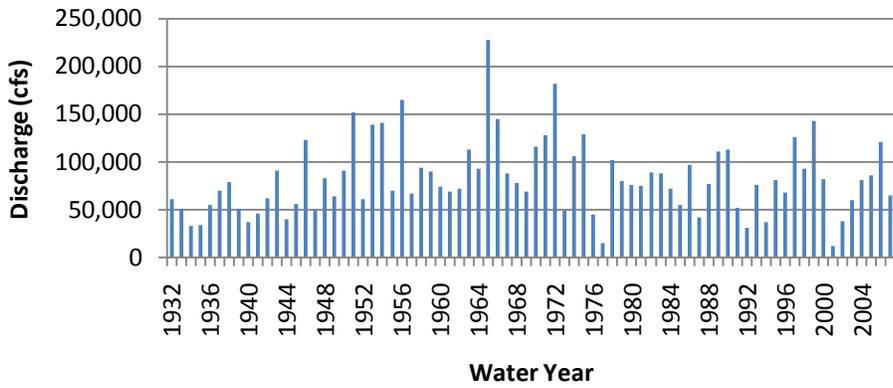
<http://waterdata.usgs.gov/ca/nwis/>

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**

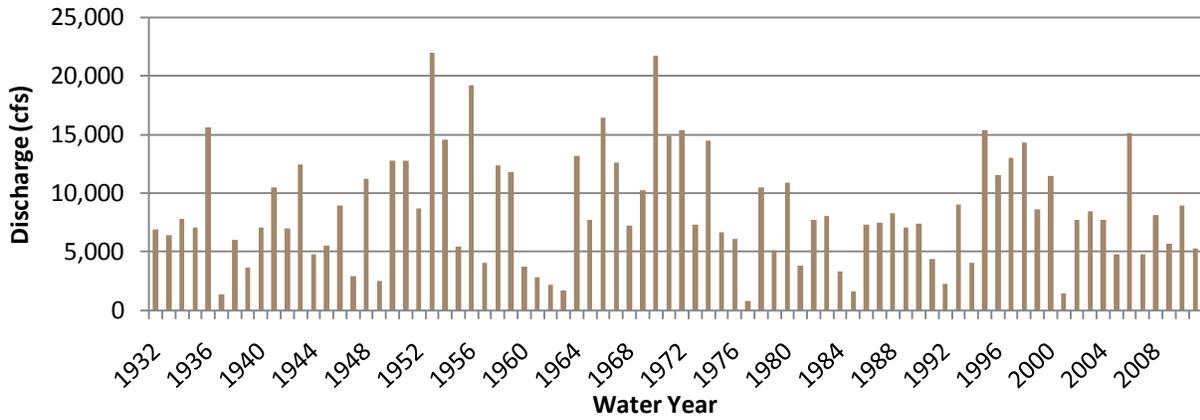
Period of Record	1932 to 2011
Latitude (degrees NAD83)	41.7915
Longitude (degrees NAD83)	-124.0762
Hydrologic unit code	18010101

# Annual Peak Flows Smith River near Crescent City

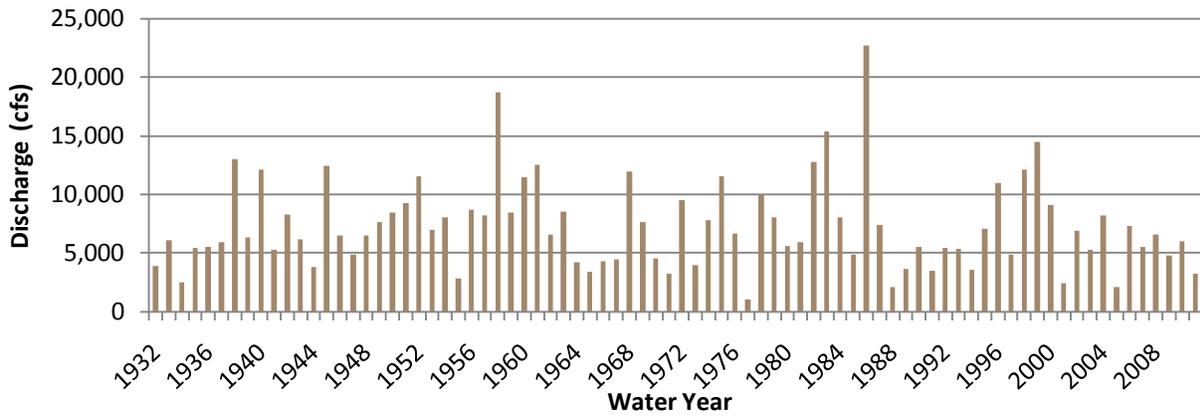


# MONTHLY DISCHARGE

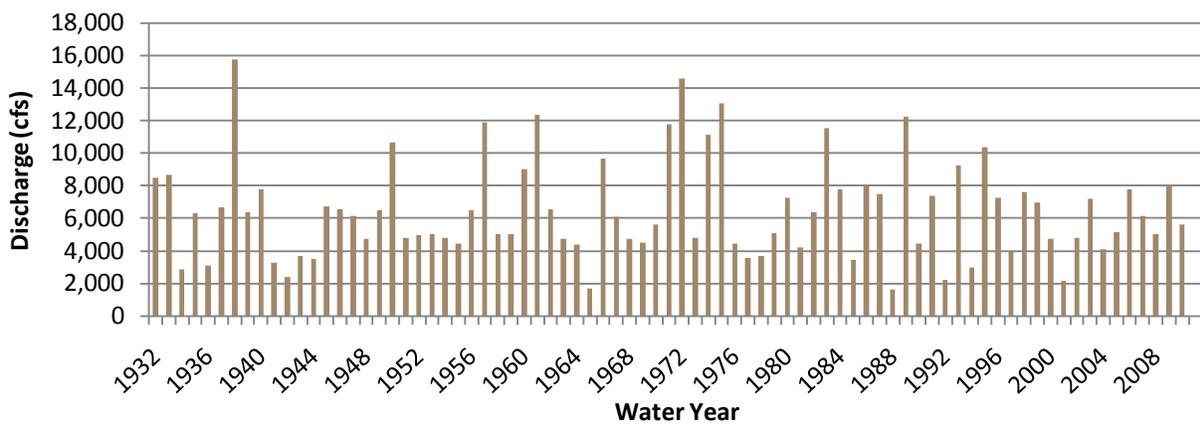
## Mean January Discharge on the Smith River near Crescent City



## Mean February Discharge on the Smith River near Crescent City

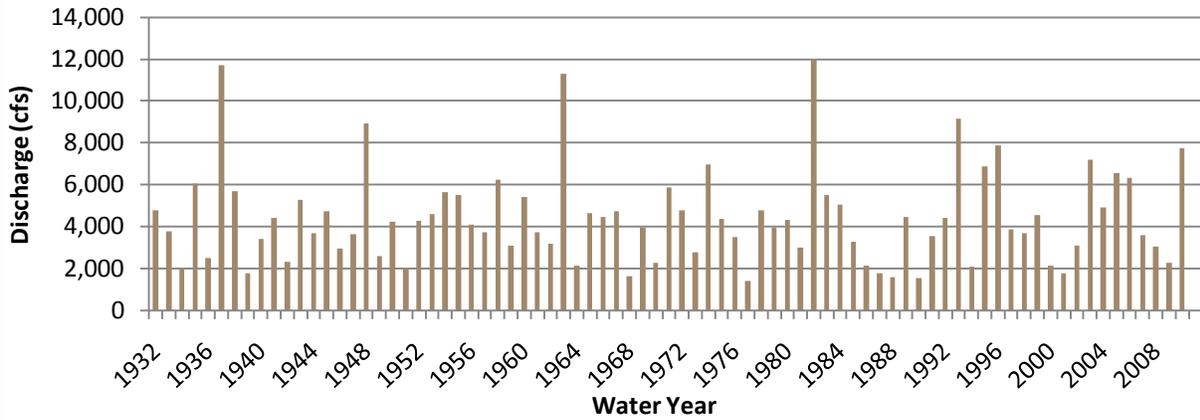


## Mean March Discharge on the Smith River near Crescent City

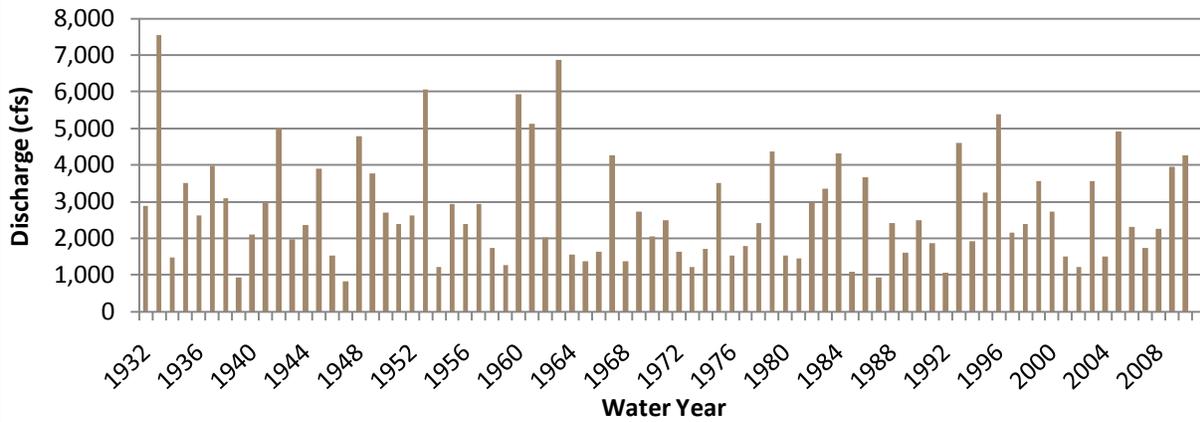


# MONTHLY DISCHARGE

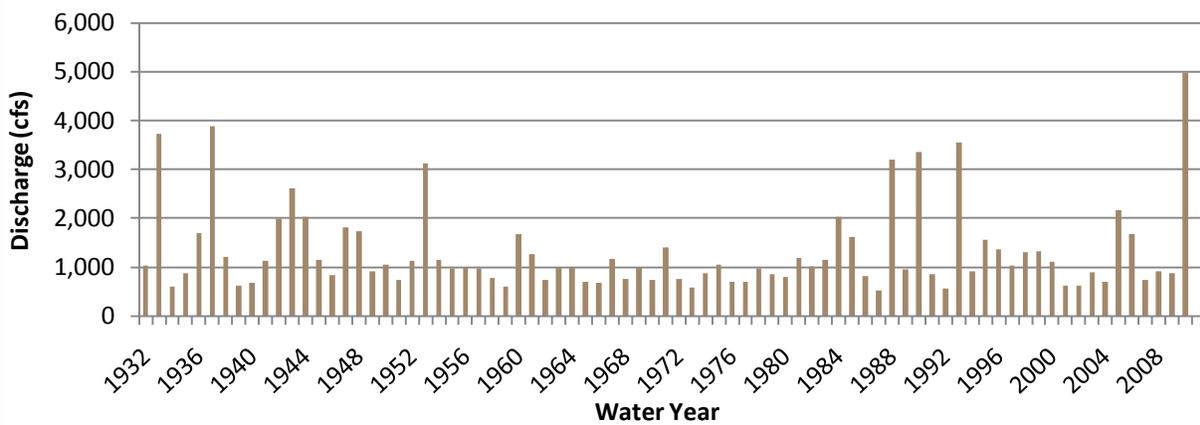
## Mean April Discharge on the Smith River near Crescent City



## Mean May Discharge on the Smith River near Crescent City

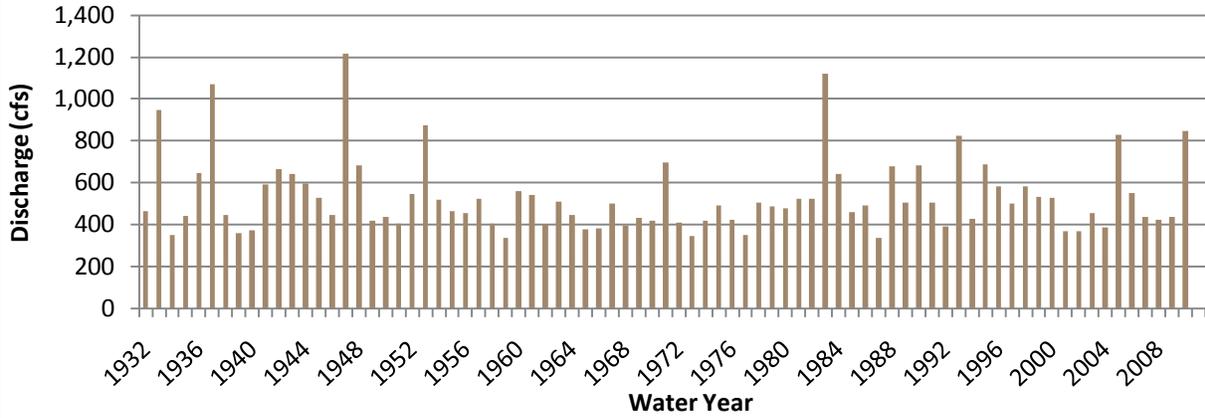


## Mean June Discharge on the Smith River near Crescent City

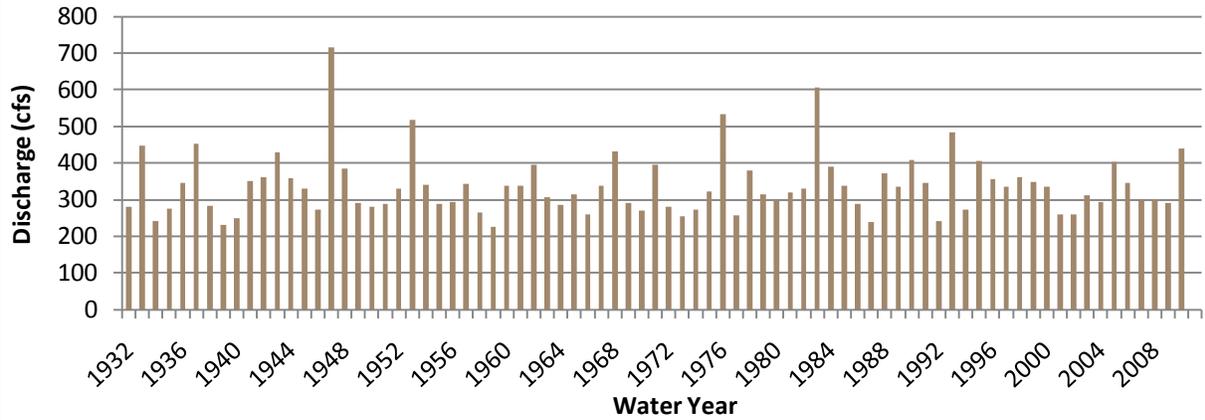


# MONTHLY DISCHARGE

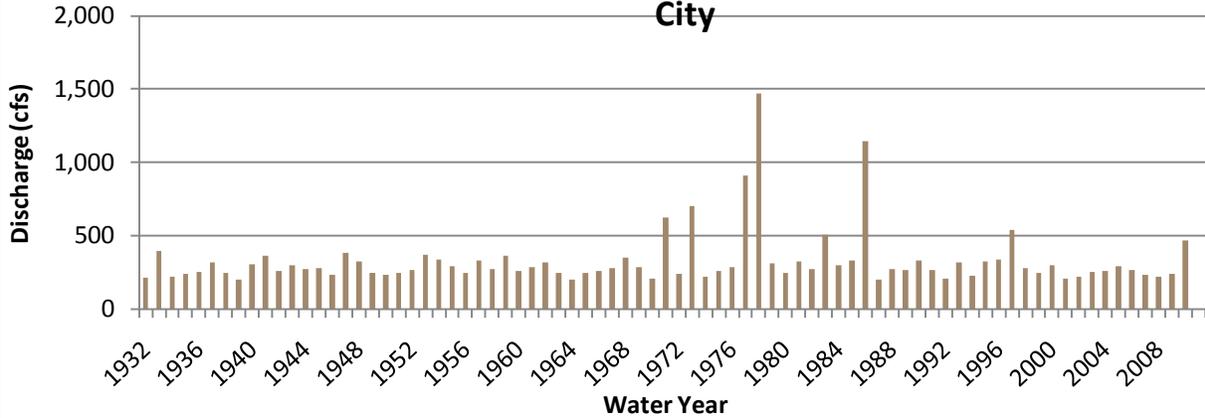
## Mean July Discharge on the Smith River near Crescent City



## Mean August Discharge on the Smith River near Crescent City

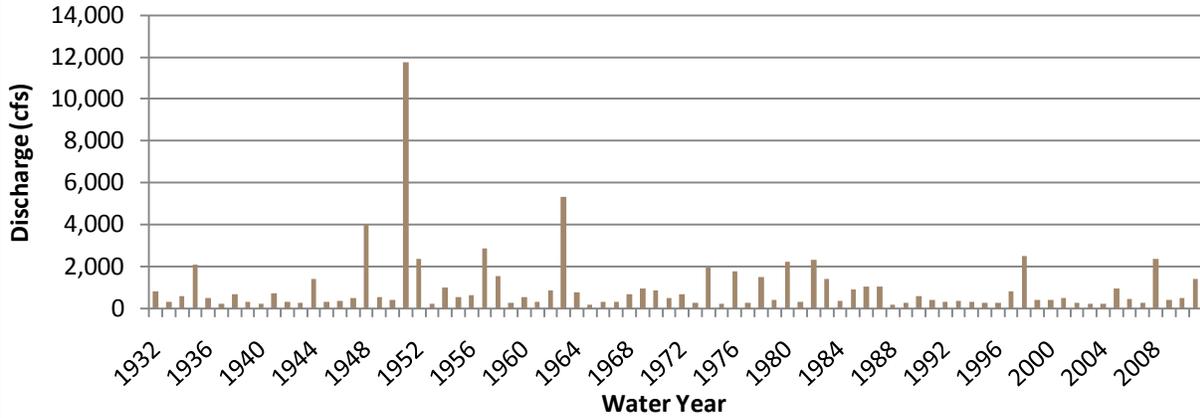


## Mean September Discharge on the Smith River near Crescent City

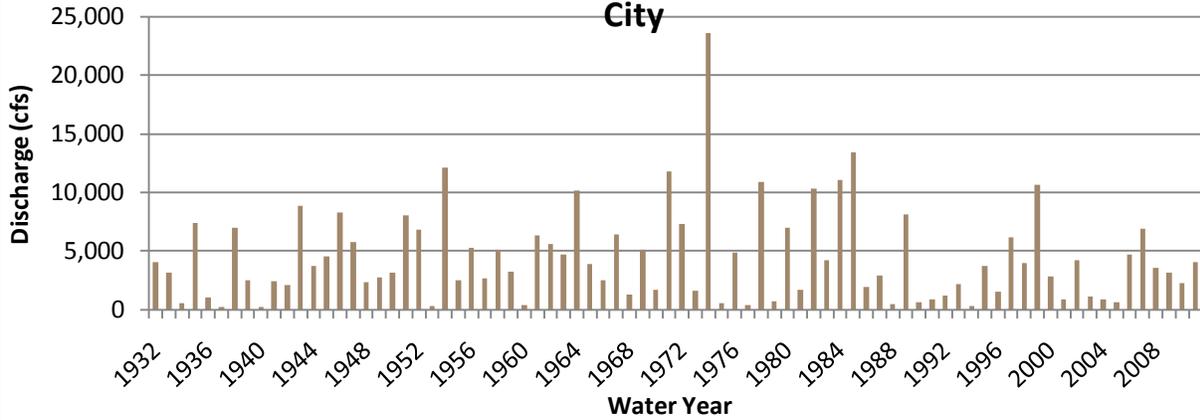


# MONTHLY DISCHARGE

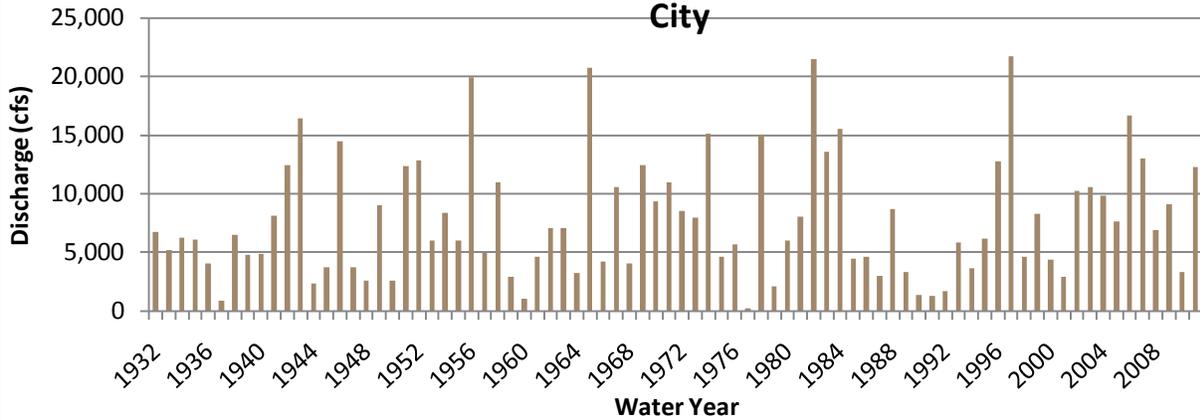
## Mean October Discharge on the Smith River near Crescent City



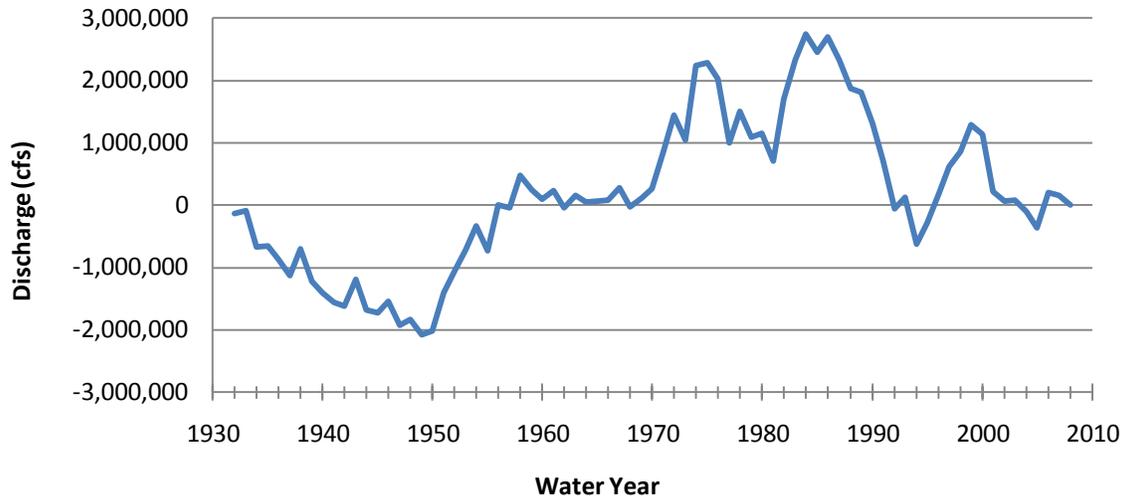
## Mean November Discharge on the Smith River near Crescent City



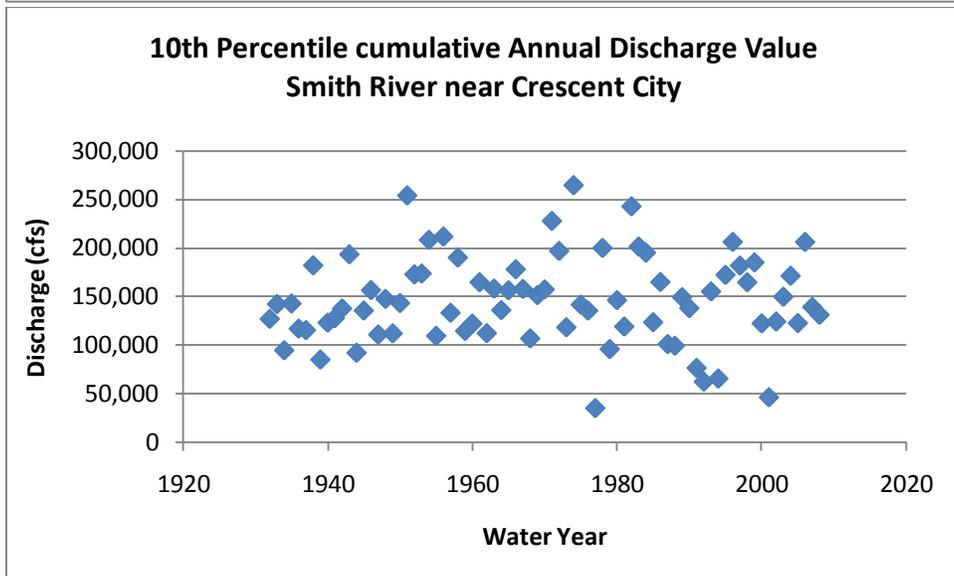
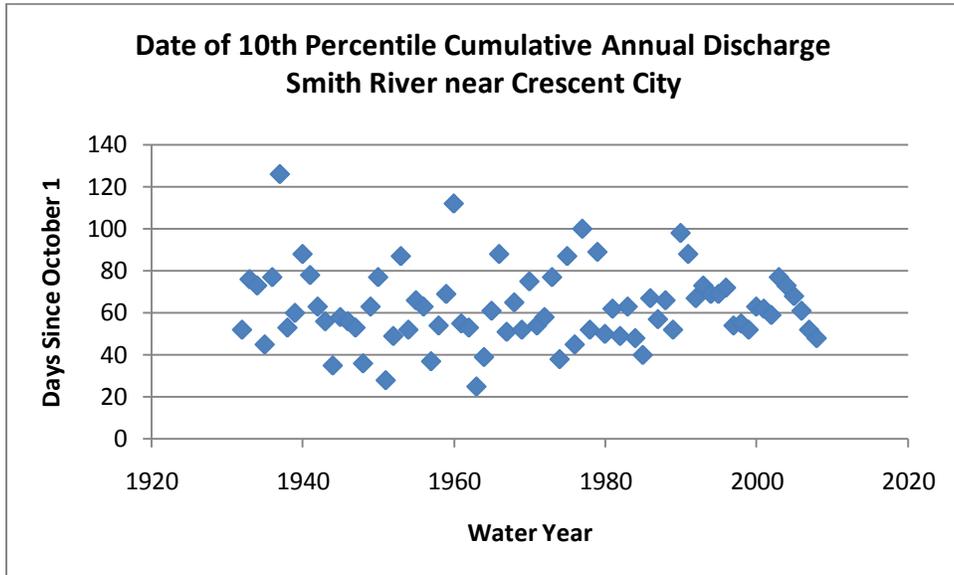
## Mean December Discharge on the Smith River near Crescent City



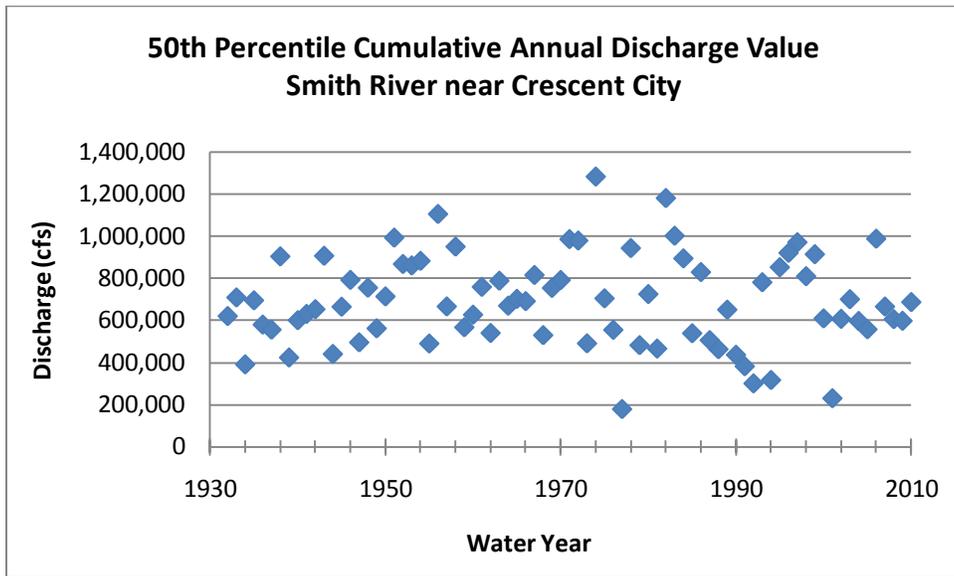
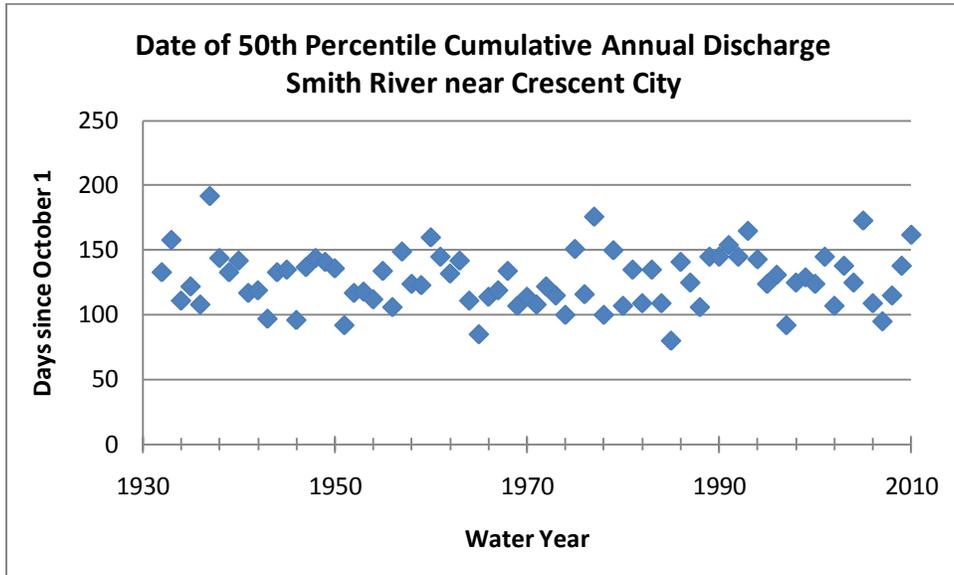
### Cumulative Departure from the Mean for Annual Discharge Smith River at Crescent City



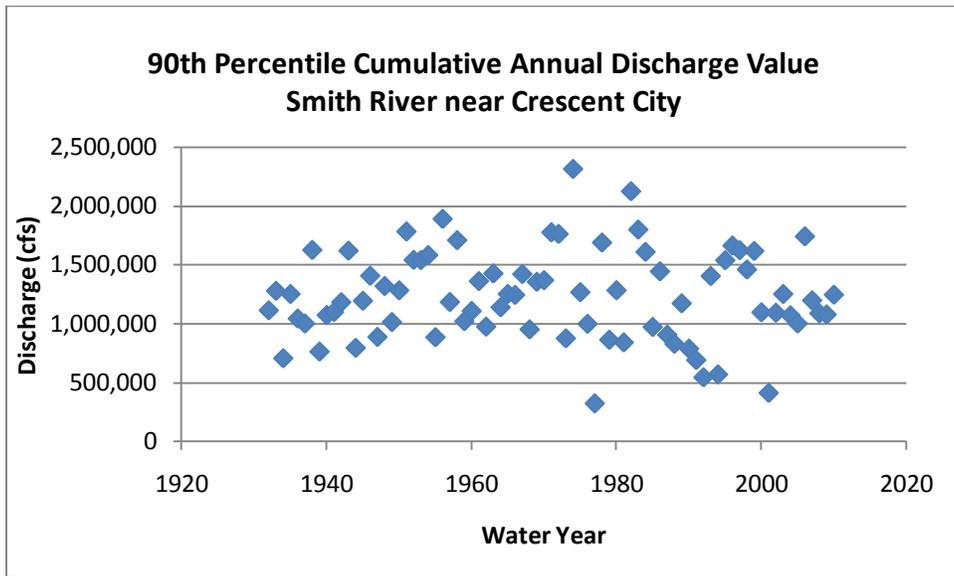
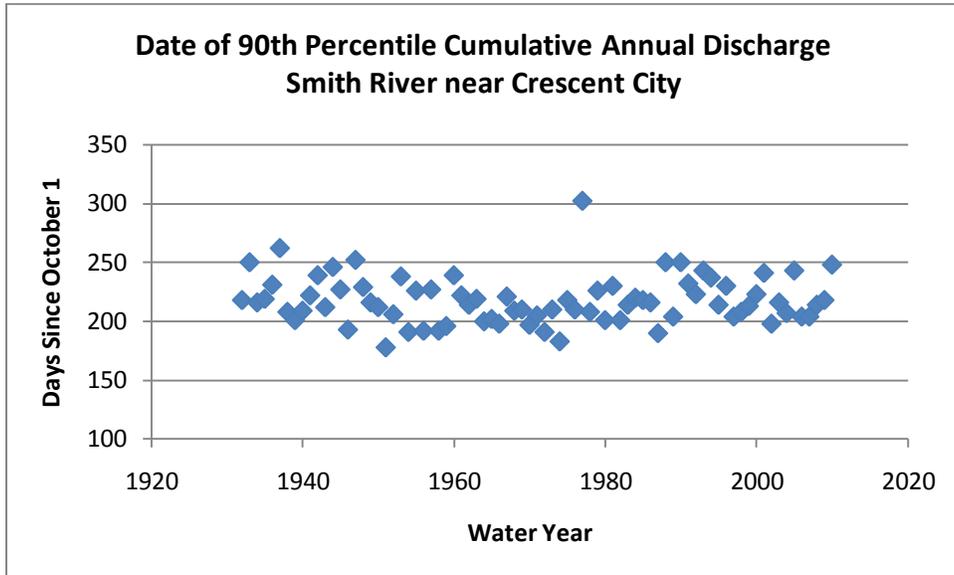
# TIMING OF RUNOFF

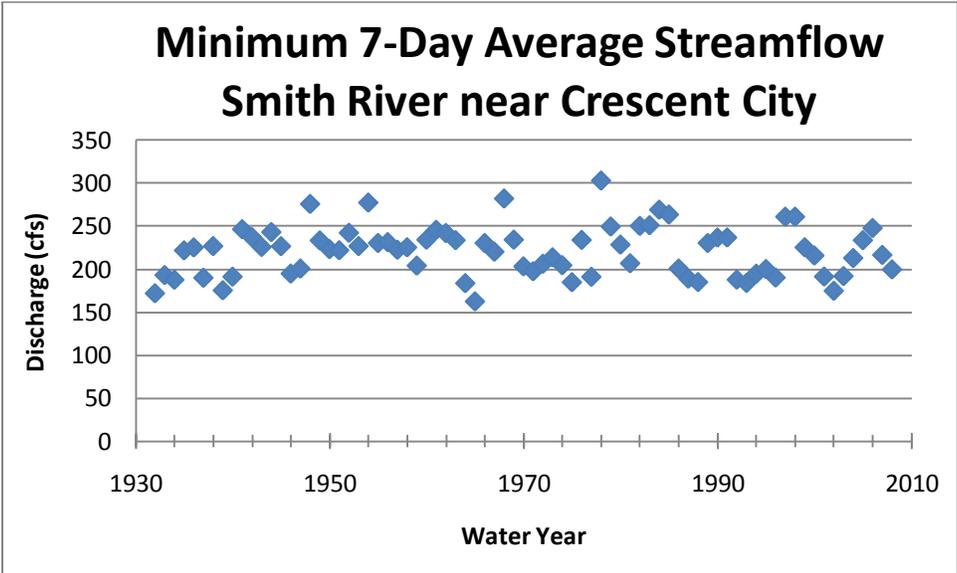
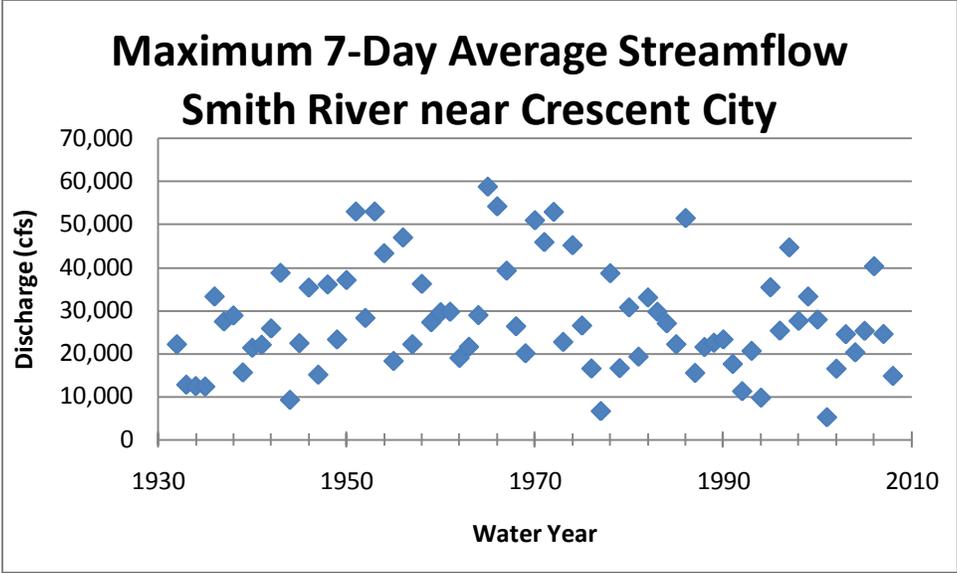


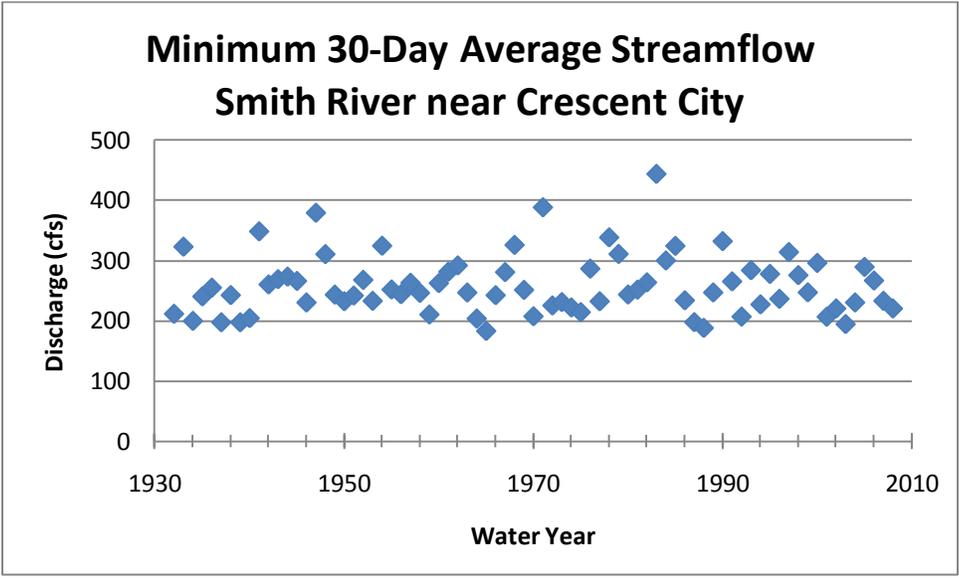
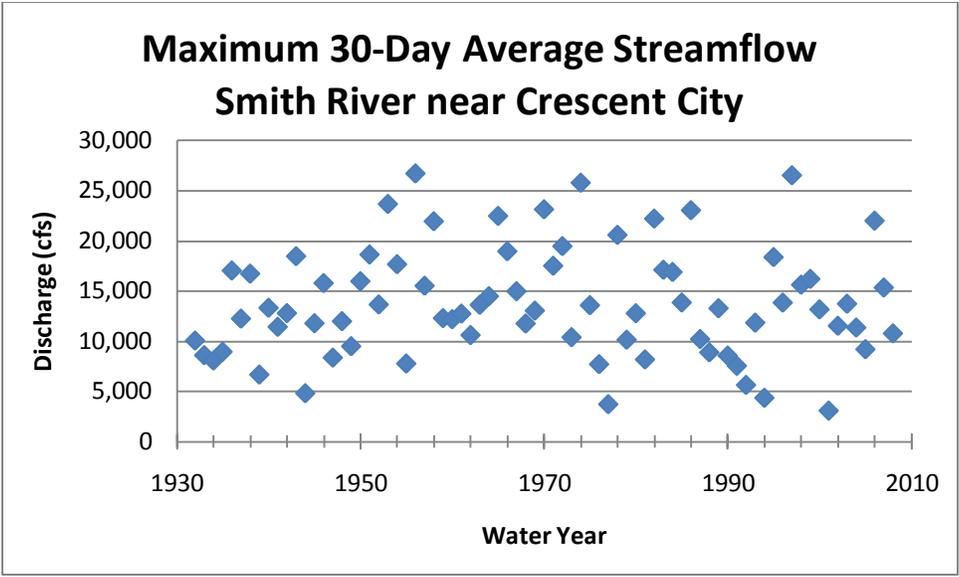
# TIMING OF RUNOFF

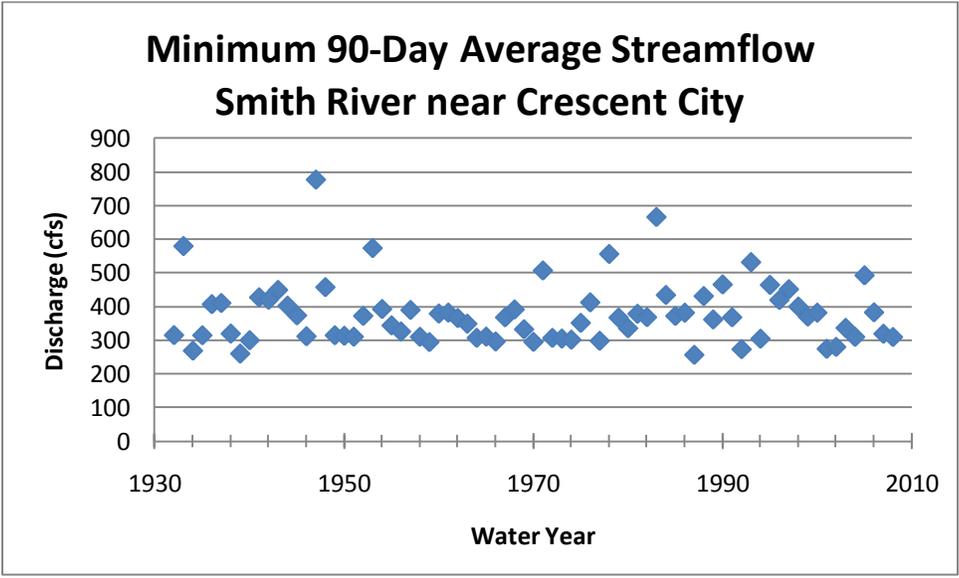
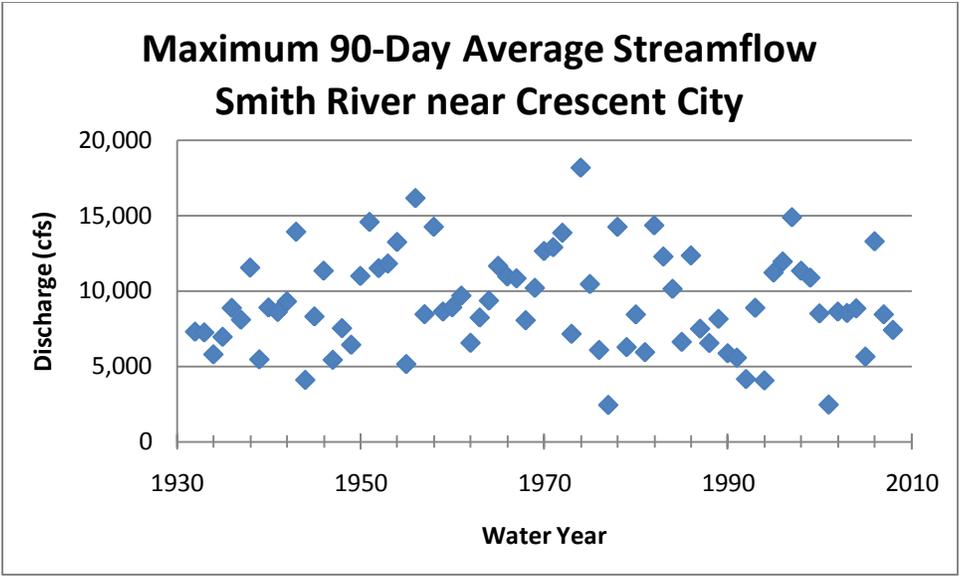


# TIMING OF RUNOFF









## RECURRENCE INTERVALS AND FLOW DURATION

### Physical Characteristics

Characteristic Name	Value	Units	Citation Number
Available_Water_Capacity	0.099	in per in	44
Average_Soil_Permeability	1.13	inches per hour	44
Contributing_Drainage_Area	609	square miles	31
Depth_to_Rock	3.258333333	feet	44
Drainage_Area	609	square miles	31
Elevation_of_10_and_85_points	1500	feet	31
Percent_above_5000_ft	0	percent	31
Main_Channel_Length	39.5	miles	31
Mean_Basin_Elevation	1500	feet	31
Percent_Forest	100	percent	31
Percent_Storage	0.02	percent	31
Relief	6310	feet	44
Stream_Slope_10_and_85_Method	83.7	feet per mi	31
Mean_Basin_Slope_degrees	23.7	degrees	44

### Streamflow Statistics

Statistic Name	Value	Units	Citation Number
<b>Peak-Flow Statistics</b>			
10_Year_Peak_Flood	135000	cubic feet per second	44
100_Year_Peak_Flood	214000	cubic feet per second	44
2_Year_Peak_Flood	77400	cubic feet per second	44
200_Year_Peak_Flood	247000	cubic feet per second	31
25_Year_Peak_Flood	166000	cubic feet per second	44
5_Year_Peak_Flood	112000	cubic feet per second	44
50_Year_Peak_Flood	190000	cubic feet per second	44
500_Year_Peak_Flood	273000	cubic feet per second	44
Log_Mean_of_Annual_Peaks	4.898	Log base 10	31
Log_Skew_of_Annual_Peaks	0.193	Log base 10	31
Log_STD_of_Annual_Peaks	0.2	Log base 10	31
Mean_Annual_Flood	53800	cubic feet per second	31
WRC_Mean	4.898	Log base 10	31
WRC_Skew	-0.102	Log base 10	31
WRC_STD	0.2	Log base 10	31
<b>Flood-Volume Statistics</b>			
1_Day_2_Year_Maximum	53854	cubic feet per second	31
1_Day_50_Year_Maximum	163220	cubic feet per second	31

15_Day_2_Year_Maximum	18628	cubic feet per second	31
15_Day_50_Year_Maximum	38085	cubic feet per second	31
3_Day_2_Year_Maximum	39490	cubic feet per second	31
3_Day_50_Year_Maximum	106700	cubic feet per second	31
7_Day_2_Year_Maximum	27404	cubic feet per second	31
7_Day_50_Year_Maximum	63370	cubic feet per second	31
<b>Low-Flow Statistics</b>			
30_Day_2_Year_Low_Flow	247.8	cubic feet per second	31
30_Day_20_Year_Low_Flow	192.7	cubic feet per second	31
7_Day_2_Year_Low_Flow	229.3	cubic feet per second	31
7_Day_20_Year_Low_Flow	180.6	cubic feet per second	31
<b>Flow-Duration Statistics</b>			
1_Percent_Duration	32800	cubic feet per second	41
10_Percent_Duration	8860	cubic feet per second	41
20_Percent_Duration	5220	cubic feet per second	41
25_Percent_Duration	4310	cubic feet per second	41
30_Percent_Duration	3550	cubic feet per second	41
40_Percent_Duration	2430	cubic feet per second	41
5_Percent_Duration	14060	cubic feet per second	41
50_Percent_Duration	1570	cubic feet per second	41
60_Percent_Duration	924	cubic feet per second	41
70_Percent_Duration	519	cubic feet per second	41
75_Percent_Duration	412	cubic feet per second	41
80_Percent_Duration	348	cubic feet per second	41
90_Percent_Duration	265	cubic feet per second	41
95_Percent_Duration	233	cubic feet per second	41
99_Percent_Duration	195	cubic feet per second	41
<b>Annual Flow Statistics</b>			
Mean_Annual_Flow	3891	cubic feet per second	31
Stand_Dev_of_Mean_Annual_Flow	890	cubic feet per second	31
<b>Monthly Flow Statistics</b>			
April_Mean_Flow	4537	cubic feet per second	31
April_STD	2245	cubic feet per second	31
August_Mean_Flow	334.9	cubic feet per second	31
August_STD	92.21	cubic feet per second	31
December_Mean_Flow	7330	cubic feet per second	31
December_STD	4933	cubic feet per second	31
February_Mean_Flow	7470	cubic feet per second	31
February_STD	3463	cubic feet per second	31
January_Mean_Flow	8660	cubic feet per second	31
January_STD	5150	cubic feet per second	31
July_Mean_Flow	543.6	cubic feet per second	31
July_STD	200.8	cubic feet per second	31

June_Mean_Flow	1339	cubic feet per second	31
June_STD	828.6	cubic feet per second	31
March_Mean_Flow	6308	cubic feet per second	31
March_STD	2994	cubic feet per second	31
May_Mean_Flow	3066	cubic feet per second	31
May_STD	1707	cubic feet per second	31
November_Mean_Flow	4333	cubic feet per second	31
November_STD	2947	cubic feet per second	31
October_Mean_Flow	1231	cubic feet per second	31
October_STD	2125	cubic feet per second	31
September_Mean_Flow	280.5	cubic feet per second	31
September_STD	51.75	cubic feet per second	31
<b>General Flow Statistics</b>			
Average_daily_streamflow	3752.285	cubic feet per second	41
Maximum_daily_flow	180000	cubic feet per second	41
Minimum_daily_flow	160	cubic feet per second	41
Std_Dev_of_daily_flows	6847.619	cubic feet per second	41
<b>Base Flow Statistics</b>			
Average_BFI_value	0.444	dimensionless	42
Number_of_years_to_compute_BFI	72	years	42
Std_dev_of_annual_BFI_values	0.086	dimensionless	42
<b>Precipitation Statistics</b>			
24_Hour_2_Year_Precipitation	6	inches	31
Mean_Annual_Precipitation	101	inches	31
Mean_January_Precipitation	17.3	inches	44
Mean_July_Precipitation	0.588	inches	44
<b>Climate Characteristics</b>			
Mean_Annual_Lake_Evaporation	30	inches	31
Mean_Annual_Snowfall	77.2	inches	44
<b>Temperature Statistics</b>			
Mean_Max_July_Temperature	79.9	degrees F	44
Mean_Maximum_January_Temperature	51.9	degrees F	44
Mean_Min_January_Temperature	38	degrees F	31
Mean_Minimum_July_Temperature	47.4	degrees F	44

## Citations

Citation Number	Citation Name and URL
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, available on World Wide Web at URL  
<http://water.usgs.gov/lookup/getspatial?qsitesdd>

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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, available on World Wide Web at URL  
<http://water.usgs.gov/lookup/getspatial?bfi48grd>

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Cooper, R.M., 2005, Estimation of Peak Discharges for Rural, Unregulated Streams in Western Oregon: U.S. Geological Survey Scientific Investigations Report 2005-5116, 76 p.