

SUSQUEHANNA RIVER BASIN

01531500 SUSQUEHANNA RIVER AT TOWANDA, PA

LOCATION.--Lat 41°45'55", long 76°26'28", Bradford County, Hydrologic Unit 02050106, on right bank at Bridge Street in Towanda, and 1.8 mi upstream from Towanda Creek.

DRAINAGE AREA.--7,797 mi².

PERIOD OF RECORD.--October 1913 to current year. Gage-height records collected at same site since October 1892 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 756: Drainage area. WSP 1302: 1922, 1929.

GAGE.--Water-stage recorder. Datum of gage is 694.38 ft above sea level. Prior to Oct. 18, 1938, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow slightly regulated by 7 flood-control reservoirs which have a combined capacity of 356,800 acre-ft. Several measurements of water temperature were made during the year. Satellite and landline telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 68,000 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Jan. 25	0330	*90,900	*15.38	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1180	1220	2080	e1700	11800	6160	24300	7830	2300	1910	992	608
2	1080	1180	2120	e1800	11400	7680	25900	7150	2120	1720	958	608
3	988	1150	2050	e1900	18000	8670	26300	6590	2010	1480	880	600
4	954	1150	2000	e2000	23600	38700	25400	6090	1980	1480	851	586
5	943	1130	1990	e2100	22200	38400	27000	5660	1850	1440	815	564
6	925	1120	1990	e2100	18800	29900	24100	5300	1750	1260	761	552
7	896	1120	1950	e2900	15800	20100	19200	4990	1680	2030	716	622
8	1000	1120	1930	e2500	13900	14600	16500	4880	1670	3030	699	686
9	1270	1120	1910	e2300	12400	12500	14900	5380	1600	2360	671	754
10	1900	1120	1890	e2200	11600	11700	18200	6260	1480	2100	643	846
11	2770	1190	1890	e2200	11600	11100	17200	6500	1410	1990	643	770
12	2620	1220	1890	e2500	11900	10200	16200	5710	1320	1820	643	677
13	2120	1300	1890	e3000	16400	9290	17900	4910	1230	1630	644	626
14	1910	1440	1850	e3600	17100	8730	16100	4380	1180	1500	684	634
15	1790	1560	1810	e3600	14300	8260	13700	3970	1170	1400	792	633
16	1840	1540	1770	e3400	12100	8030	12200	3640	1150	1290	739	830
17	1900	1520	1730	e3200	12200	8770	12900	3340	1150	1200	711	5230
18	1890	1390	1680	e3000	13900	16400	14000	3120	1150	1230	696	14100
19	1860	1370	1630	e4500	13900	22700	13900	2950	1140	1090	698	11400
20	1750	1400	1630	e6200	12300	19300	13000	2860	1120	1060	768	7700
21	1640	1400	1610	e11000	10600	17000	11900	2900	1050	1010	783	5200
22	1570	1410	1700	e12000	9000	17300	10900	3070	1030	1000	727	4280
23	1490	1420	2730	e15000	e7400	18000	10600	3050	1030	973	701	6970
24	1440	1440	4730	e6400	e6400	19200	18000	2870	985	945	737	8890
25	1400	1430	5000	84400	6350	21400	18300	2800	946	943	676	7530
26	1380	1440	3790	65500	6130	19900	15000	2960	954	940	648	5640
27	1360	1460	3120	49200	5780	18700	12800	3090	946	883	620	4380
28	1340	1600	e2800	32600	5610	18500	11100	3150	1040	856	621	3580
29	1340	1810	e2800	25100	---	20100	9730	3090	1170	864	649	3030
30	1320	1970	e2300	19600	---	22700	8730	2790	1830	845	622	3170
31	1270	---	e1900	15200	---	24600	---	2500	---	862	609	---
TOTAL	47136	40740	70160	448700	352470	528590	495960	133780	41441	43141	22397	101696
MEAN	1521	1358	2263	14470	12590	17050	16530	4315	1381	1392	722	3390
MAX	2770	1970	5000	84400	23600	38700	27000	7830	2300	3030	992	14100
MIN	896	1120	1610	1700	5610	6160	8730	2500	946	845	609	552
CFSM	.20	.17	.29	1.86	1.61	2.19	2.12	.55	.18	.18	.09	.43
IN.	.22	.19	.33	2.14	1.68	2.52	2.37	.64	.20	.21	.11	.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 1999, BY WATER YEAR (WY)

MEAN	5362	9496	11120	10740	11740	23610	25160	13090	7016	4088	2993	3246
MAX	31270	28940	32550	31200	35700	60780	76640	34770	41150	23840	16210	23200
(WY)	1978	1928	1997	1996	1976	1936	1993	1943	1972	1915	1915	1977
MIN	507	495	1459	1273	1821	8417	4975	3297	1381	783	571	432
(WY)	1965	1965	1931	1931	1920	1981	1946	1985	1999	1962	1964	1964

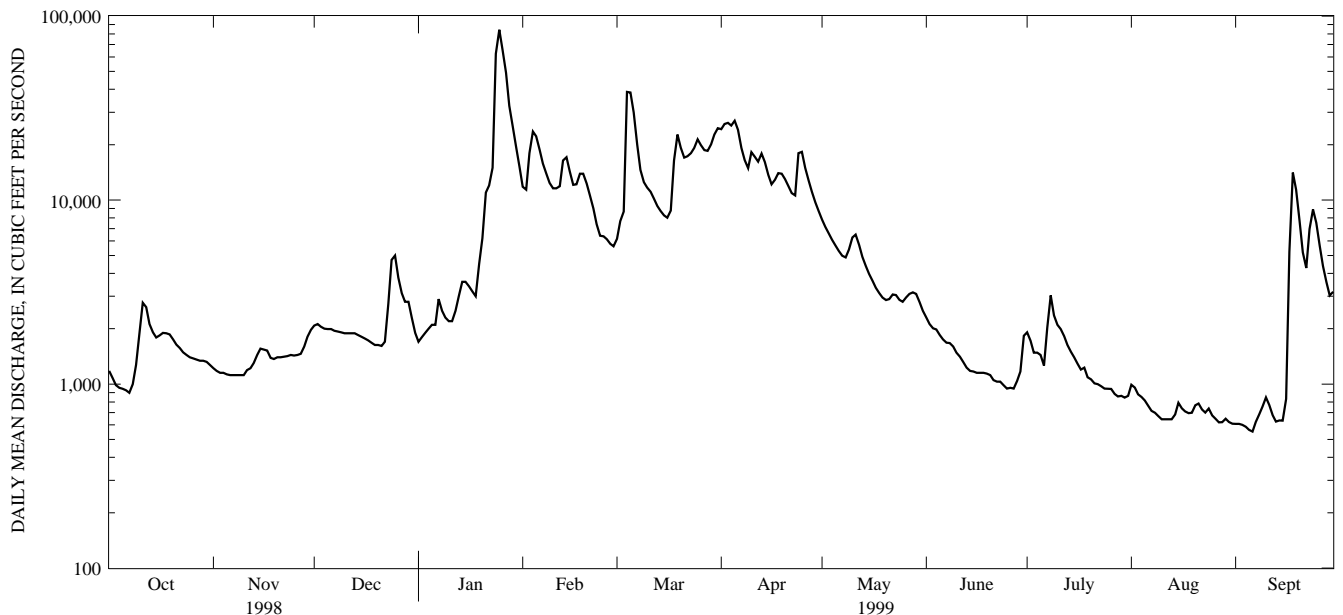
e Estimated.

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SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1914 - 1999	
ANNUAL TOTAL	4231403		2326211		10620	
ANNUAL MEAN	11590		6373		16610	
HIGHEST ANNUAL MEAN					1978	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	109000	Jan 9	84400	Jan 25	283000	Jun 23 1972
LOWEST DAILY MEAN	896	Oct 7	552	Sep 6	340	Sep 23 1964
ANNUAL SEVEN-DAY MINIMUM	969	Oct 2	590	Aug 31	348	Sep 18 1964
INSTANTANEOUS PEAK FLOW			90900	Jan 25	a 320000	Jun 24 1972
INSTANTANEOUS PEAK STAGE			15.38	Jan 25	b 33.43	Jun 24 1972
INSTANTANEOUS LOW FLOW					334	Sep 23,24 1964
ANNUAL RUNOFF (CFSM)	1.49		.82		1.36	
ANNUAL RUNOFF (INCHES)	20.19		11.10		18.51	
10 PERCENT EXCEEDS	31500		17900		25800	
50 PERCENT EXCEEDS	5600		2000		5460	
90 PERCENT EXCEEDS	1150		765		1240	

a From rating curve extended above 180,000 ft³/s.
b From floodmark.



1-YEAR HYDROGRAPH
 OCTOBER 1, 1998 TO SEPTEMBER 30, 1999