

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)
Apr. 10	1945	*87,200	*14.72	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1930	3350	6750	e5600	5420	9250	37100	7960	3770	5550	e1500	e1100
2	1840	3090	6520	5920	7030	8250	26400	7360	3590	5130	e1400	e1100
3	1780	2900	6150	5300	7410	7760	22300	6810	3670	4800	e1300	e1000
4	1710	2770	5130	5340	6930	7440	22400	6370	3980	4320	1350	e1000
5	1790	2720	4400	5220	5930	6980	29300	5870	4690	4100	1320	e1100
6	2950	2690	3970	5480	5510	6480	39300	5400	5030	3730	e1300	e1100
7	8140	2650	3910	5320	5690	6560	52600	4820	4860	3550	e1500	e1000
8	8150	2600	4100	5230	5730	7110	65200	4420	4260	3540	e1400	e950
9	5870	2550	3880	5040	5490	6980	74400	4170	3780	3390	e1300	e900
10	4510	2650	3660	4740	10600	6530	84400	3910	3460	3240	e1200	e820
11	3860	4670	3760	4270	18300	6220	78200	3740	3230	2980	e1200	e790
12	3560	6340	4010	4240	16400	5850	69500	3560	3170	2800	e1200	e800
13	3310	6040	4580	4140	13800	6170	60900	3340	3200	2840	e1100	e820
14	3080	5250	5010	4140	12700	9390	51700	3200	3450	2670	e1100	e870
15	2820	4680	5070	4060	16000	12700	48600	3120	3580	2510	e1000	e1000
16	2650	4550	5110	4100	19300	13000	44100	3020	3350	2360	e1000	e1000
17	2570	4440	20700	4130	16900	12600	38100	2910	4610	2190	1250	e940
18	3370	4230	48600	4220	13100	13300	32000	2740	9360	2090	1300	e900
19	9420	3970	40500	4290	11100	12500	27000	2610	7120	2000	1350	e800
20	10300	3750	29600	4270	9760	12800	23600	2580	6020	1980	1370	e760
21	8270	3600	21400	4080	10400	15000	21800	2560	4410	1940	1220	e790
22	6370	3450	17400	e3700	10600	31000	22800	2540	3840	1860	e1100	e820
23	5340	3240	13500	e3600	9320	32600	20600	2660	11800	1760	e1100	e780
24	4720	3040	11300	3480	8310	33000	17400	3070	34200	1660	e1100	e800
25	4410	2890	8890	3420	8200	26400	15300	4140	26900	1610	e1000	5560
26	3990	2820	e7400	3370	9110	20400	13300	5300	20500	e1600	e1000	12500
27	3790	3230	e7000	3230	10600	16300	11700	4660	14400	e1700	e980	8570
28	3700	6800	e6600	3290	10700	14100	10600	4180	9870	e1600	e970	5190
29	3730	7470	e6200	3140	---	13100	9650	4580	7170	e1500	e980	3790
30	3550	7020	6410	3020	---	30800	8710	4360	5790	e1600	e980	3210
31	3410	---	5910	3460	---	59900	---	4090	---	e1700	e1000	---
TOTAL	134890	119450	327420	132840	290340	470470	1078960	130050	227060	84300	36870	60760
MEAN	4351	3982	10560	4285	10370	15180	35970	4195	7569	2719	1189	2025
MAX	10300	7470	48600	5920	19300	59900	84400	7960	34200	5550	1500	12500
MIN	1710	2550	3660	3020	5420	5850	8710	2540	3170	1500	970	760
CFSM	.56	.51	1.35	.55	1.33	1.95	4.61	.54	.97	.35	.15	.26
IN.	.64	.57	1.56	.63	1.39	2.24	5.15	.62	1.08	.40	.18	.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2001, BY WATER YEAR (WY)

MEAN	5326	9378	11090	10670	11790	23540	25370	13130	7104	4076	2977	3221
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1914 - 2001	
ANNUAL TOTAL	4745280		3093410		10620	
ANNUAL MEAN	12970		8475		16610	
HIGHEST ANNUAL MEAN					1978	
LOWEST ANNUAL MEAN					1965	
HIGHEST DAILY MEAN	99100	Feb 29	84400	Apr 10	283000	Jun 23 1972
LOWEST DAILY MEAN	1600	Sep 11	e 760	Sep 20	340	Sep 23 1964
ANNUAL SEVEN-DAY MINIMUM	1760	Sep 7	a 807	Sep 18	348	Sep 18 1964
MAXIMUM PEAK FLOW			87200	Apr 10	b 320000	Jun 24 1972
MAXIMUM PEAK STAGE			14.72	Apr 10	c 33.43	Jun 24 1972
INSTANTANEOUS LOW FLOW					334	Sep 23,24 1964
ANNUAL RUNOFF (CFSM)	1.66		1.09		1.36	
ANNUAL RUNOFF (INCHES)	22.64		14.76		18.51	
10 PERCENT EXCEEDS	30400		20500		25900	
50 PERCENT EXCEEDS	6600		4270		5450	
90 PERCENT EXCEEDS	2490		1100		1250	

- a** Computed using estimated daily discharges.
- b** From rating curve extended above 180,000 ft³/s.
- c** From floodmark.
- e** Estimated.

