

## 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 mi<sup>2</sup>.

**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 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Feb. 28	2315	*111,000	*17.62	Apr. 5	0245	85,000	14.69

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4810	e2100	11300	5530	4990	77400	19500	13200	12500	7040	3390	1850
2	5740	e2100	9790	5160	5050	62800	16700	11900	10900	6230	4580	1760
3	5140	2380	8620	5140	4790	46400	17600	11200	9720	5750	4640	1760
4	4330	5080	8100	7330	4960	35800	58800	10600	9490	5650	4130	1810
5	3680	5340	8160	19800	4800	29800	79700	9670	9170	5950	3430	1770
6	3570	4480	8780	22300	4790	25800	62400	8970	8760	5340	2950	1910
7	3570	3700	9330	17500	4620	22000	48400	8370	10100	4750	2690	2000
8	3460	3300	9010	13500	4380	19300	36000	7900	12300	4190	2590	1850
9	3140	e3000	8140	11700	4280	19000	54600	7320	13000	3790	2850	1690
10	2910	e2700	7570	10800	4220	19900	50900	10700	10600	3510	3450	1620
11	2810	e2500	7420	15600	4260	21600	41900	29900	8890	3290	5680	1600
12	2990	e2600	7260	21400	4580	28000	33800	26300	10300	3120	5670	1680
13	3040	e2700	6960	21500	5020	31500	28900	34500	17900	2970	4280	1890
14	2980	e2700	6790	16600	5530	27100	25300	40400	28000	2830	4130	3220
15	3260	e2600	11300	12800	9500	22800	22700	43500	30600	2900	5770	4780
16	4030	e2500	16100	11400	13000	19800	21000	40200	22700	4430	4540	4200
17	3890	e2500	15400	10200	13300	22500	19600	30100	20100	9130	3780	3650
18	3590	e2500	13200	7710	11500	25300	26000	22900	15900	8340	3390	3290
19	3280	e2400	11100	7180	9640	22200	34900	28300	19300	6940	3340	2860
20	3080	e2300	9490	7710	8950	19600	28300	42700	19000	5210	3050	2520
21	2870	e2300	9720	8300	8610	18100	24700	36500	14900	4240	2710	2300
22	2750	e2300	10900	7210	8300	20400	32600	30800	16800	3910	2480	2110
23	e2500	e2400	10500	6670	8700	18800	39800	30300	17900	3800	2340	1990
24	e2400	e2400	8990	6820	14400	15700	36200	40000	15000	3510	2280	1960
25	e2400	e2600	7410	6600	29800	14200	29700	55700	11800	3280	2300	1960
26	e2400	e3000	5770	6310	54200	13800	24300	47500	10600	3010	2740	2280
27	e2400	e14000	6000	6170	64600	13500	20300	36400	11000	2690	3140	2390
28	e2400	19200	5590	5500	97400	15800	18300	27800	10700	2570	2690	2350
29	e2300	16700	5550	5590	99100	25300	16900	21600	9150	2500	2310	2130
30	e2200	13500	5580	5430	---	28300	15100	17900	7940	2480	2080	1950
31	e2100	---	5570	5390	---	23800	---	15000	---	3230	1940	---
TOTAL	100020	137880	275400	320850	517270	806300	984900	798130	425020	136580	105340	69130
MEAN	3226	4596	8884	10350	17840	26010	32830	25750	14170	4406	3398	2304
MAX	5740	19200	16100	22300	99100	77400	79700	55700	30600	9130	5770	4780
MIN	2100	2100	5550	5140	4220	13500	15100	7320	7940	2480	1940	1600
CFSM	.41	.59	1.14	1.33	2.29	3.34	4.21	3.30	1.82	.57	.44	.30
IN.	.48	.66	1.31	1.53	2.47	3.85	4.70	3.81	2.03	.65	.50	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2000, BY WATER YEAR (WY)

MEAN	5338	9440	11090	10740	11810	23630	25250	13230	7098	4092	2998	3235
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

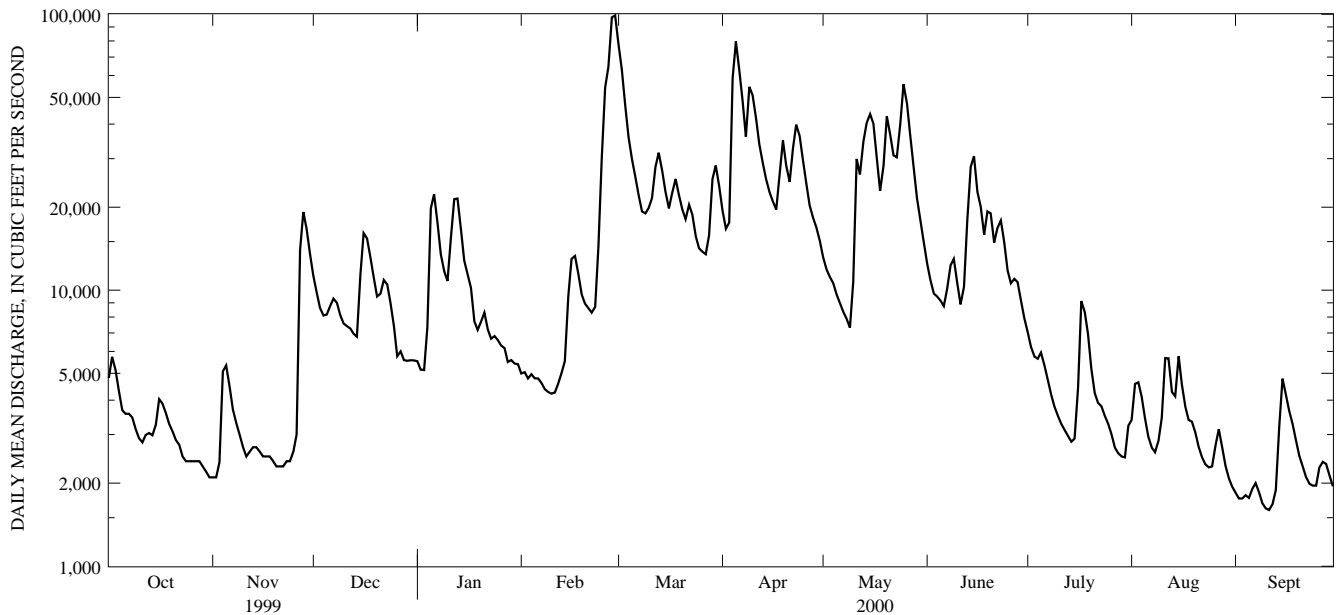
e Estimated.

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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR			FOR 2000 WATER YEAR			WATER YEARS 1914 - 2000	
ANNUAL TOTAL	2681475			4676820			10650	
ANNUAL MEAN	7347			12780			16610	
HIGHEST ANNUAL MEAN							1978	
LOWEST ANNUAL MEAN							5104	
HIGHEST DAILY MEAN	84400	Jan 25		99100	Feb 29		283000	Jun 23 1972
LOWEST DAILY MEAN	552	Sep 6		1600	Sep 11		340	Sep 23 1964
ANNUAL SEVEN-DAY MINIMUM	590	Aug 31		1760	Sep 7		348	Sep 18 1964
INSTANTANEOUS PEAK FLOW				111000	Feb 28		<b>a</b> 320000	Jun 24 1972
INSTANTANEOUS PEAK STAGE				17.62	Feb 28		<b>b</b> 33.43	Jun 24 1972
INSTANTANEOUS LOW FLOW							334	Sep 23,24 1964
ANNUAL RUNOFF (CFSM)	.94			1.64			1.37	
ANNUAL RUNOFF (INCHES)	12.79			22.31			18.56	
10 PERCENT EXCEEDS	18000			30000			25900	
50 PERCENT EXCEEDS	3400			7240			5490	
90 PERCENT EXCEEDS	765			2370			1250	

**a** From rating curve extended above 180,000 ft<sup>3</sup>/s.  
**b** From floodmark.



1-YEAR HYDROGRAPH  
 OCTOBER 1, 1999 TO SEPTEMBER 30, 2000