

SUSQUEHANNA RIVER BASIN

01536500 SUSQUEHANNA RIVER AT WILKES-BARRE, PA

LOCATION.--Lat 41°15'03", long 75°52'52", Luzerne County, Hydrologic Unit 02050107, on left bank at downstream side of North Street bridge in Wilkes-Barre, and 1.8 mi upstream from Toby Creek.

DRAINAGE AREA.--9,960 mi².

PERIOD OF RECORD.--April 1899 to current year. Gage-height records collected at same site since November 1890 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 109: 1900-1905. WSP 351: Drainage area. WSP 781: 1902(M). WSP 1302: 1916. WSP 1432: 1901-5, 1907, 1909, 1913, 1937(M). WDR PA-86-2: 1960(M), 1964(M), 1975(M), 1979(M). WDR PA-89-2: 1964(P). WDR PA-90-2: 1988(M) 1989(P).

GAGE.--Water-stage recorder. Datum of gage is 510.86 ft above sea level, using NAVD 1988 datum. See WSP 1722 for history of changes prior to Mar. 23, 1949. May 23, 1949 to Sept. 30, 1996, at site 800 ft downstream.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow slightly regulated by 8 flood-control reservoirs, which have a combined capacity of 368,800 acre-ft. Satellite and landline telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known prior to 1899, 33.1 ft, Mar. 18, 1865, from floodmarks, discharge, about 232,000 ft³/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 82,000 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Feb. 29	0915	*129,000	*23.66	Apr. 5	1645	97,100	19.50

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	8110	3340	17100	7860	e8700	106000	28600	18900	18500	e12000	9900	2800
2	8590	3460	14700	7730	e9000	85000	24400	17000	15900	e10000	8890	2720
3	8550	5270	12900	7580	e8400	67900	21500	15600	14600	e8800	8400	2650
4	8530	6070	11600	7580	e8200	51400	36200	14700	13000	e7700	8050	2800
5	9080	7210	11000	11400	e8000	41300	92100	13800	12600	e7200	7040	2590
6	7550	7740	11000	25200	e8100	35200	84700	12800	15600	e7500	5760	2540
7	6540	6850	11700	25500	e7900	30900	66900	12000	17400	7200	5530	2480
8	6110	5830	12100	20200	e7500	26800	51500	11300	16400	6430	5280	2610
9	5850	5210	11500	16500	e7200	24700	57300	10500	17200	5710	4660	2600
10	5790	4840	10500	15100	e7200	24500	70900	9980	16600	5220	4490	2420
11	6090	4550	9900	19700	e7100	25900	60500	21100	14000	e4800	4760	2280
12	5760	4330	9530	24500	e7100	35700	49800	35700	14400	4420	6820	2290
13	5400	4230	9290	28500	e7000	41600	41300	32400	17000	4150	7530	3500
14	5520	4380	9250	26300	e7600	39700	35600	42300	23600	3910	6090	3640
15	5600	4420	11200	19800	e10000	33600	31300	47200	36500	4320	5300	3700
16	5380	4270	18900	17400	e15000	28900	e28000	47700	32500	5220	7120	5880
17	6040	4110	22300	e15000	e17000	31300	e26000	41400	26300	6160	6090	5580
18	5890	3970	20300	e13000	e17000	34800	30500	31600	23300	10500	5090	4880
19	5490	3910	17500	e10000	e15000	32900	48900	28700	20500	9880	4590	4420
20	5140	3800	15100	e11000	e14000	28900	44600	45100	e24000	8440	4330	4090
21	4850	3720	13800	e11000	e13000	26100	36100	50500	e20000	6730	4140	3650
22	4570	3740	14600	e10000	e12000	26200	39100	42100	e18000	5680	3760	3270
23	4420	3710	15000	e10000	e12000	27900	46700	41700	e22000	5170	3550	2970
24	4220	3750	14100	e10000	e13000	24200	48800	49800	e20000	4870	3490	2810
25	4020	3970	11700	e10000	e24000	20800	42000	68900	e17000	4610	3390	2680
26	3900	4260	10600	e10000	e55000	19600	34600	66100	16400	4260	3250	2690
27	3830	7510	8800	e9400	76900	18800	29100	53100	18100	4030	3310	2820
28	3800	22700	8190	e9200	106000	22200	25400	40700	17200	3820	3940	3100
29	3760	23800	7930	e8800	127000	28900	23400	32000	e16000	3840	3710	3110
30	3620	20700	7470	e8500	---	34500	21300	25700	13100	5280	3320	2930
31	3470	---	7890	e8400	---	34100	---	21800	---	12600	2970	---
TOTAL	175470	195650	387450	435150	635900	1110300	1277100	1002180	567700	200450	164550	96500
MEAN	5660	6522	12500	14040	21930	35820	42570	32330	18920	6466	5308	3217
MAX	9080	23800	22300	28500	127000	106000	92100	68900	36500	12600	9900	5880
MIN	3470	3340	7470	7580	7000	18800	21300	9980	12600	3820	2970	2280
CFSM	.57	.65	1.25	1.41	2.20	3.60	4.27	3.25	1.90	.65	.53	.32
IN.	.66	.73	1.45	1.63	2.38	4.15	4.77	3.74	2.12	.75	.61	.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1899 - 2000, BY WATER YEAR (WY)

MEAN	6897	11170	13940	14080	14860	30360	31250	16550	9004	5396	3977	4246
MAX	39860	32130	44610	40740	43030	80560	100000	39590	54330	29010	19560	28680
(WY)	1978	1928	1997	1996	1976	1936	1993	1943	1972	1902	1994	1975
MIN	705	724	1357	1386	2710	10250	6918	3388	2137	1086	853	637
(WY)	1965	1965	1909	1931	1920	1965	1946	1903	1999	1962	1964	1964

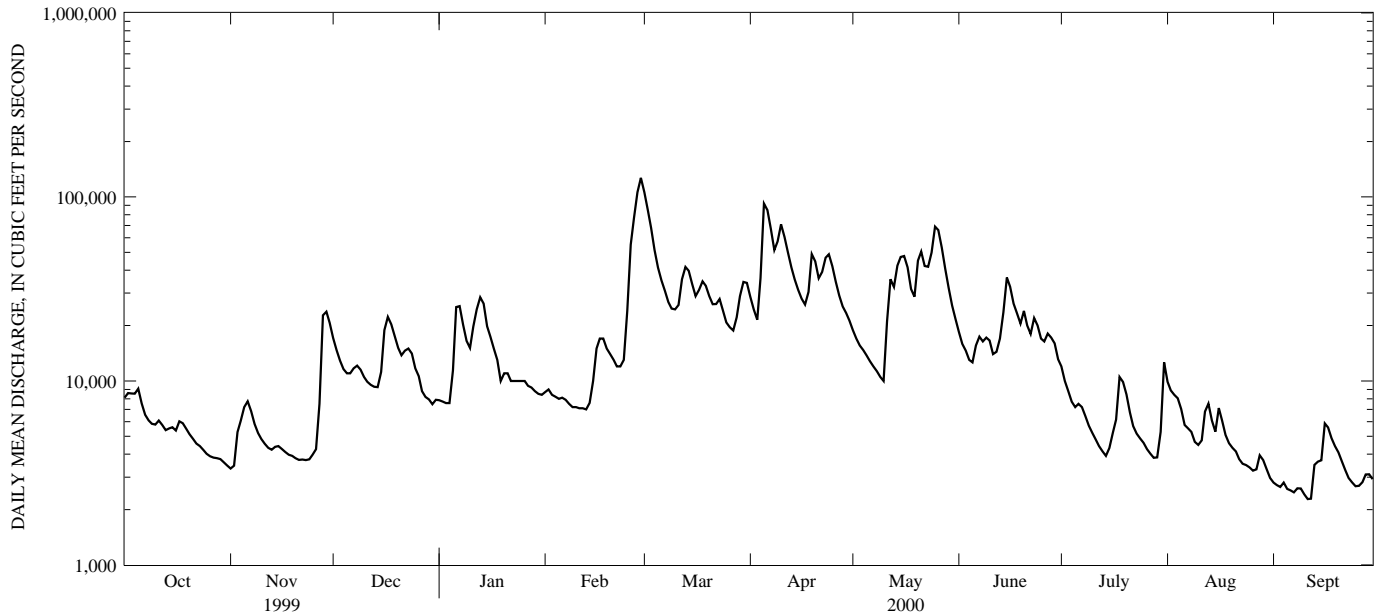
e Estimated.

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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1899 - 2000	
ANNUAL TOTAL	3805990		6248400			
ANNUAL MEAN	10430		17070		13480	
HIGHEST ANNUAL MEAN					21990	
LOWEST ANNUAL MEAN					6186	
HIGHEST DAILY MEAN	110000	Jan 25	127000	Feb 29	329000	Jun 24 1972
LOWEST DAILY MEAN	749	Sep 5	2280	Sep 11	532	Sep 27 1964
ANNUAL SEVEN-DAY MINIMUM	783	Aug 31	2460	Sep 6	546	Sep 21 1964
INSTANTANEOUS PEAK FLOW			129000	Feb 29	a 345000	Jun 24 1972
INSTANTANEOUS PEAK STAGE			23.66	Feb 29	b 40.91	Jun 24 1972
INSTANTANEOUS LOW FLOW					528	Sep 27 1964
ANNUAL RUNOFF (CFSM)	1.05		1.71		1.35	
ANNUAL RUNOFF (INCHES)	14.22		23.34		18.39	
10 PERCENT EXCEEDS	24600		40900		32400	
50 PERCENT EXCEEDS	5830		10000		7130	
90 PERCENT EXCEEDS	1050		3710		1660	

a From slope-area measurement of peak flow near West Pittston and adjusted for flow from intervening area.
b From floodmark.



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