

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 North American Vertical Datum of 1988. 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 fair 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)
Mar. 22	1100	*122,000	*22.84	June 22	1530	86,400	18.05

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8720	8250	15000	16900	e6000	14700	51300	13900	37900	8310	6670	3960
2	6690	7380	13700	41500	e6000	13700	48500	15300	76800	7480	7050	10700
3	5630	6720	12800	51900	e6000	13000	49400	21800	57400	6840	16600	33100
4	4930	6430	10900	40700	e6200	12200	47500	19700	40600	6420	16700	46800
5	4440	6260	9670	31600	e6600	11400	44300	18900	31600	6030	19600	44900
6	4210	6350	9150	26400	e9900	11600	65000	15900	27400	5500	18600	33300
7	4050	6890	8320	22800	13100	10900	63400	14200	24600	5170	17700	22600
8	3940	7180	8740	20700	e13000	10200	50600	13300	24900	5000	14200	15700
9	3740	8230	8340	19500	11500	11200	43000	12600	22700	5020	13200	11600
10	3480	8930	7160	20800	9860	11700	38600	11600	19300	4730	15100	9020
11	4820	8260	6650	21700	9030	12400	36500	10700	16200	6130	32300	7410
12	18900	7870	8330	19100	7660	10900	38600	10800	14900	7530	32800	6720
13	17000	9560	e10000	15300	7570	10600	35500	11800	14300	5810	25900	6120
14	8230	10000	14200	14100	6590	10400	31700	14100	18200	5710	21300	5710
15	6680	10500	30500	11500	5990	10900	27900	17700	21100	5190	15000	6430
16	7500	10800	34400	10200	6070	13200	25100	16000	20700	4750	12500	9520
17	26500	13000	29700	e9400	5820	33600	22400	14100	16200	4340	10300	8590
18	23100	28400	22500	e8900	4950	65700	20400	13300	13200	4080	8300	9220
19	22700	34400	17000	e8700	5010	88000	18800	12700	11700	4410	7180	10400
20	18900	29200	17400	e9700	5660	85700	17200	11100	11400	4480	6630	9030
21	14100	23700	34000	e9100	6370	107000	15700	9810	41700	4850	6110	7860
22	12600	21800	42000	e8400	6700	119000	15200	9140	81200	6450	5690	7030
23	10500	25400	35900	e7500	8380	108000	14900	8820	63400	25500	5270	16000
24	8180	30200	28600	e6400	14700	99300	14700	8720	41800	40700	4790	22700
25	6910	31000	23600	e6600	23500	89600	15100	9750	29000	35100	4410	25500
26	7760	27800	20700	e6800	22700	76600	15300	14100	20800	30100	4200	20500
27	9560	24300	18300	e6600	19100	69100	16000	15700	16100	18400	4190	15300
28	12000	21600	15100	e6500	16900	62200	16700	14600	13100	13300	4090	13900
29	12900	18800	13900	e6400	---	54500	17300	14000	10900	11700	3780	17400
30	11900	16500	13700	e6200	---	50900	16000	13300	9310	9870	3840	22400
31	9710	---	13600	e6000	---	52000	---	11700	---	7690	3580	---
TOTAL	320280	475710	553860	497900	270860	1350200	932600	419140	848410	316590	367580	479420
MEAN	10330	15860	17870	16060	9674	43550	31090	13520	28280	10210	11860	15980
MAX	26500	34400	42000	51900	23500	119000	65000	21800	81200	40700	32800	46800
MIN	3480	6260	6650	6000	4950	10200	14700	8720	9310	4080	3580	3960
CFSM	1.04	1.59	1.79	1.61	0.97	4.37	3.12	1.36	2.84	1.03	1.19	1.60
IN.	1.20	1.78	2.07	1.86	1.01	5.04	3.48	1.57	3.17	1.18	1.37	1.79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1899 - 2003, BY WATER YEAR (WY)

MEAN	6871	11080	13940	13940	14860	30280	31250	16550	9329	5411	4003	4327
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1899 - 2003	
ANNUAL TOTAL	5183297		6832550			
ANNUAL MEAN	14200		18720		13490	
HIGHEST ANNUAL MEAN					21990	1978
LOWEST ANNUAL MEAN					6186	1965
HIGHEST DAILY MEAN	76900	Mar 28	119000	Mar 22	329000	Jun 24 1972
LOWEST DAILY MEAN	924	Sep 14	3480	Oct 10	532	Sep 27 1964
ANNUAL SEVEN-DAY MINIMUM	977	Sep 8	3950	Aug 26	546	Sep 21 1964
MAXIMUM PEAK FLOW			122000	Mar 22	a 345000	Jun 24 1972
MAXIMUM PEAK STAGE			22.84	Mar 22	b 40.91	Jun 24 1972
INSTANTANEOUS LOW FLOW					528	Sep 27 1964
ANNUAL RUNOFF (CFSM)	1.43		1.88		1.35	
ANNUAL RUNOFF (INCHES)	19.36		25.52		18.40	
10 PERCENT EXCEEDS	32500		40600		32400	
50 PERCENT EXCEEDS	10900		13200		7180	
90 PERCENT EXCEEDS	1330		5710		1670	

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

b From floodmark.

