



2005 Water Year  
SUSQUEHANNA RIVER BASIN  
01536500 Susquehanna River at Wilkes-Barre, PA

Latitude: 41° 15 ' 03"

Longitude: 075° 52 ' 52"

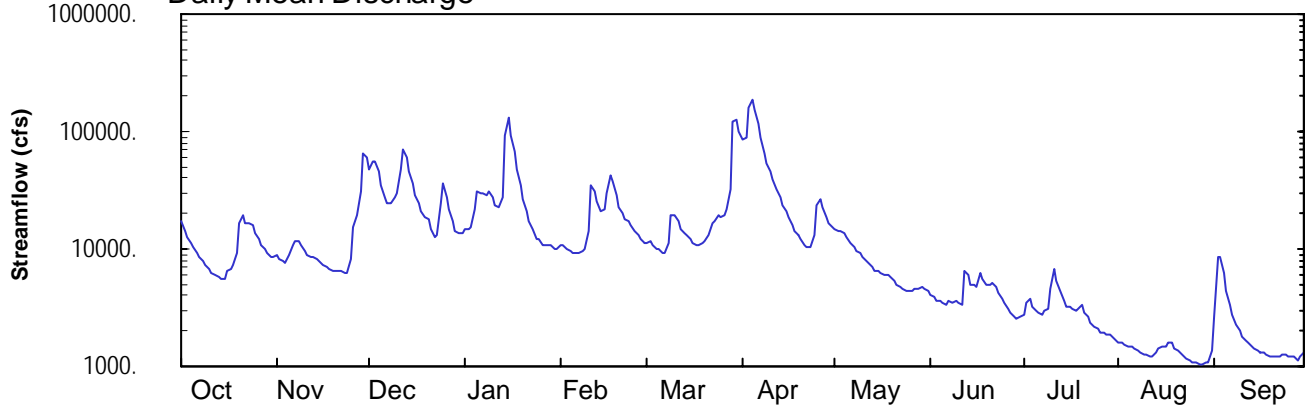
Hydrologic Unit Code: 02050107

Luzerne County

Datum: 510.86 feet

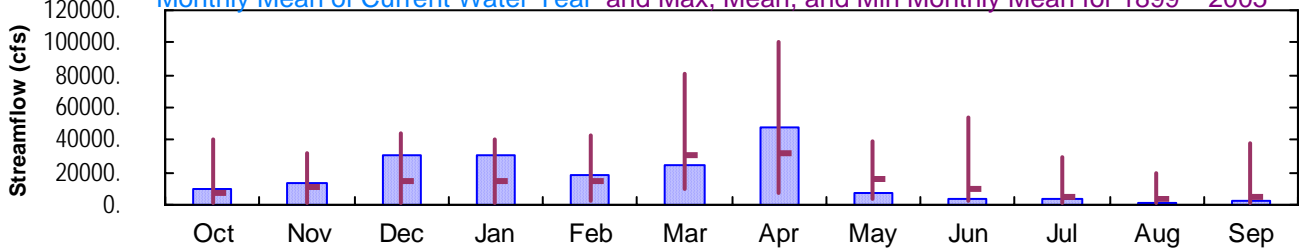
Drainage Area: 9960. mi<sup>2</sup>

### Daily Mean Discharge

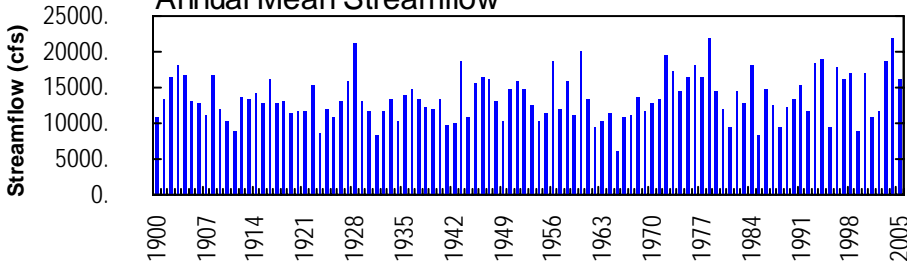


### Monthly Statistics

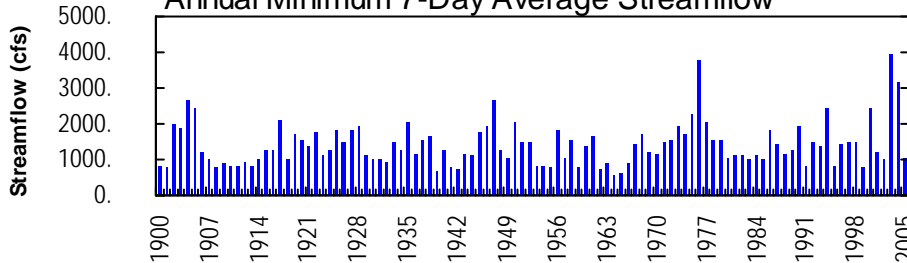
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1899 – 2005



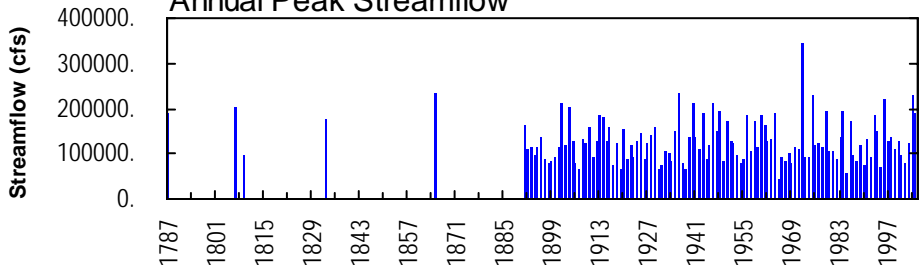
### Annual Mean Streamflow



### Annual Minimum 7-Day Average Streamflow



### Annual Peak Streamflow



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

**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 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 ft<sup>3</sup>/s.

**PEAK DISCHARGES FOR CURRENT YEAR.**--Peak discharges greater than a base discharge of 82,000 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)
Jan. 15	0230	137,000	24.74	Apr. 4	0630	*189,000	*30.88
Mar. 29	2100	148,000	26.05				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17400	8850	47800	14700	e11000	11400	85500	14600	4100	2720	1620	2630
2	14400	8320	56100	14800	e11000	11500	87600	14500	3880	3520	1580	8540
3	12500	7800	56500	15200	e10000	10800	163000	14200	3660	3810	1510	8520
4	11200	7660	45000	22000	e9500	10200	187000	13500	3660	3280	1490	6220
5	10200	8810	35300	31100	e9300	9840	156000	12400	3470	3020	1470	4470
6	9410	10600	27800	29600	e9200	9370	119000	11300	3360	2830	1440	3390
7	8620	11900	24100	29500	e9200	9230	88800	10500	3570	2780	1340	2730
8	7860	11700	24600	29000	e9600	11400	66200	9790	3530	2990	1300	2310
9	7220	10900	27600	30900	e10000	19100	53600	9080	3620	3160	1280	2010
10	6750	9800	29400	27600	e14000	19400	45400	8490	3500	4580	1240	1800
11	6340	9000	47200	24000	e35000	17200	38800	8040	3370	6700	1200	1660
12	6000	8590	70800	22500	30600	14900	32300	7550	6540	5460	1200	1570
13	5710	8470	60600	27900	25000	13900	27300	6960	5970	4470	1300	1480
14	5580	8160	46400	93200	20900	13200	23900	6480	5010	3650	1440	1420
15	5560	7790	36700	132000	21600	12300	21100	6430	4980	3250	1460	1360
16	6600	7380	29200	92500	29700	11500	18600	6290	4740	3210	1490	1310
17	6840	7000	24100	66900	41700	11000	16200	6100	6270	3140	1600	1310
18	7300	6800	21200	48500	37800	10800	14100	5940	5620	2960	1600	1250
19	9230	6630	19000	35000	28200	11200	13000	5690	4960	3150	1410	1230
20	16900	6530	e18000	26000	23100	11800	12000	5380	4990	3350	1340	1210
21	19100	6440	e15000	e21000	20200	13300	10700	5030	5210	2900	1290	1200
22	16800	6390	12600	e17000	18300	16900	10200	4740	4800	2620	1210	1210
23	16800	6340	13000	e15000	17200	17600	10300	4530	4240	2400	1150	1250
24	15700	6380	25000	e12000	16000	19600	13100	4400	3810	2180	1110	1240
25	13700	8090	35700	e12000	14500	19000	23300	4350	3440	2090	1080	1190
26	11900	15600	27700	e11000	13300	19600	26500	4400	3040	1980	1070	1190
27	10700	19500	21900	e11000	12200	22100	22900	4500	2820	1940	1050	1200
28	9850	31000	17000	e11000	11400	31900	18800	4570	2670	1880	1050	1140
29	9080	64000	14300	e11000	---	121000	16400	4770	2600	1870	1060	1200
30	8580	61100	13500	e10000	---	129000	15100	4640	2600	1800	1060	1290
31	8460	---	13800	e10000	---	99400	---	4350	---	1680	1380	---
TOTAL	322290	397530	956900	953900	519500	759440	1436700	233500	124030	95370	40820	68530
MEAN	10400	13250	30870	30770	18550	24500	47890	7532	4134	3076	1317	2284
MAX	19100	64000	70800	132000	41700	129000	187000	14600	6540	6700	1620	8540
MIN	5560	6340	12600	10000	9200	9230	10200	4350	2600	1680	1050	1140
CFSM	1.04	1.33	3.10	3.09	1.86	2.46	4.81	0.76	0.42	0.31	0.13	0.23
IN.	1.20	1.48	3.57	3.56	1.94	2.84	5.37	0.87	0.46	0.36	0.15	0.26

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1899 - 2005, BY WATER YEAR (WY)

MEAN	7004	11240	14290	14120	14820	30260	31370	16520	9280	5468	4111	4619
MAX	39860	32130	44610	40740	43030	80560	100000	39590	54330	29010	19560	37600
(WY)	1978	1928	1997	1996	1976	1936	1993	1943	1972	1902	1994	2004
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.

## SUSQUEHANNA RIVER BASIN

## 01536500 SUSQUEHANNA RIVER AT WILKES-BARRE, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1899 - 2005	
ANNUAL TOTAL	7322140		5908510			
ANNUAL MEAN	20010		16190		13600	
HIGHEST ANNUAL MEAN					21990	
LOWEST ANNUAL MEAN					6186	
HIGHEST DAILY MEAN	204000	Sep 19	187000	Apr 4	329000	Jun 24 1972
LOWEST DAILY MEAN	2830	Jul 8	1050	Aug 27,28	532	Sep 27 1964
ANNUAL SEVEN-DAY MINIMUM	<b>a</b> 3160	Jul 3	1070	Aug 24	546	Sep 21 1964
MAXIMUM PEAK FLOW			189000	Apr 4	<b>b</b> 345000	Jun 24 1972
MAXIMUM PEAK STAGE			30.88	Apr 4	<b>c</b> 40.91	Jun 24 1972
INSTANTANEOUS LOW FLOW					528	Sep 27 1964
ANNUAL RUNOFF (CFSM)	2.01		1.63		1.37	
ANNUAL RUNOFF (INCHES)	27.35		22.07		18.55	
10 PERCENT EXCEEDS	38300		33400		32500	
50 PERCENT EXCEEDS	14400		9230		7250	
90 PERCENT EXCEEDS	6330		1420		1670	

**a** Computed using estimated daily discharges.

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

**c** From floodmark.

