



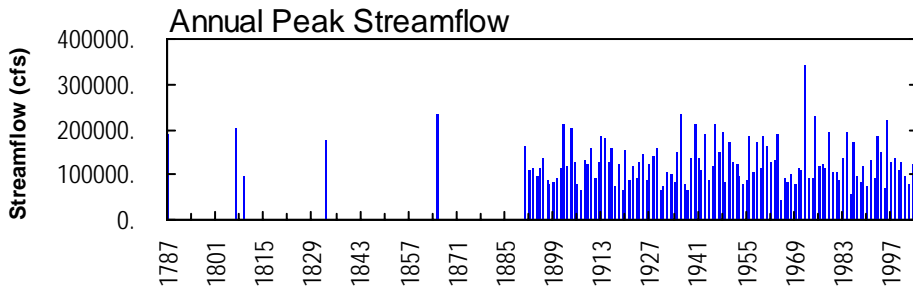
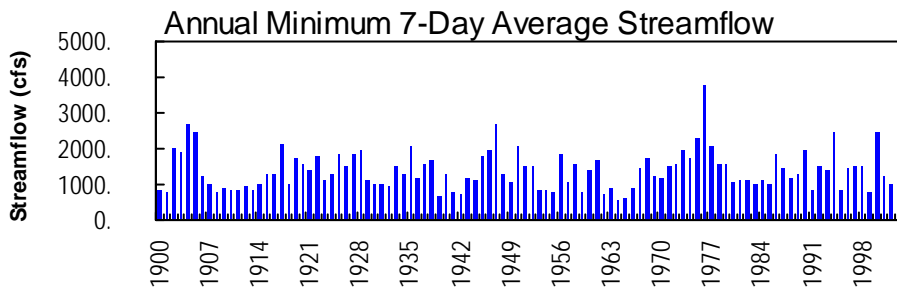
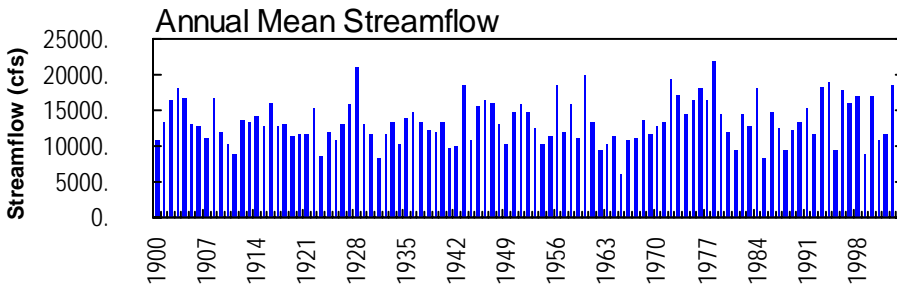
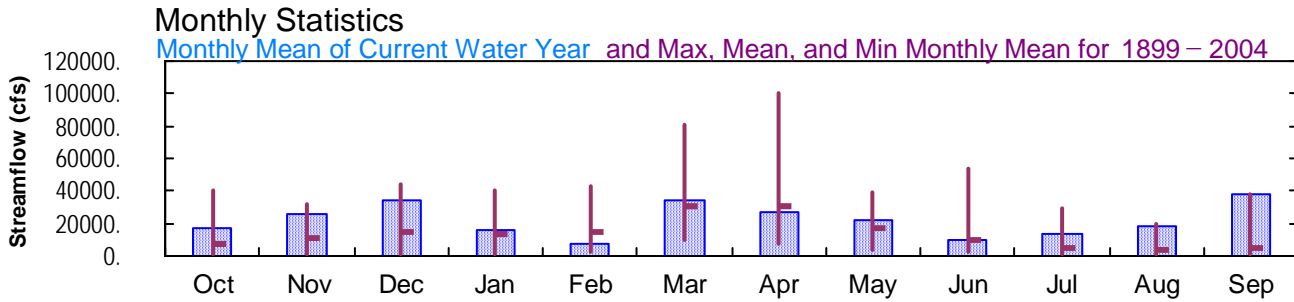
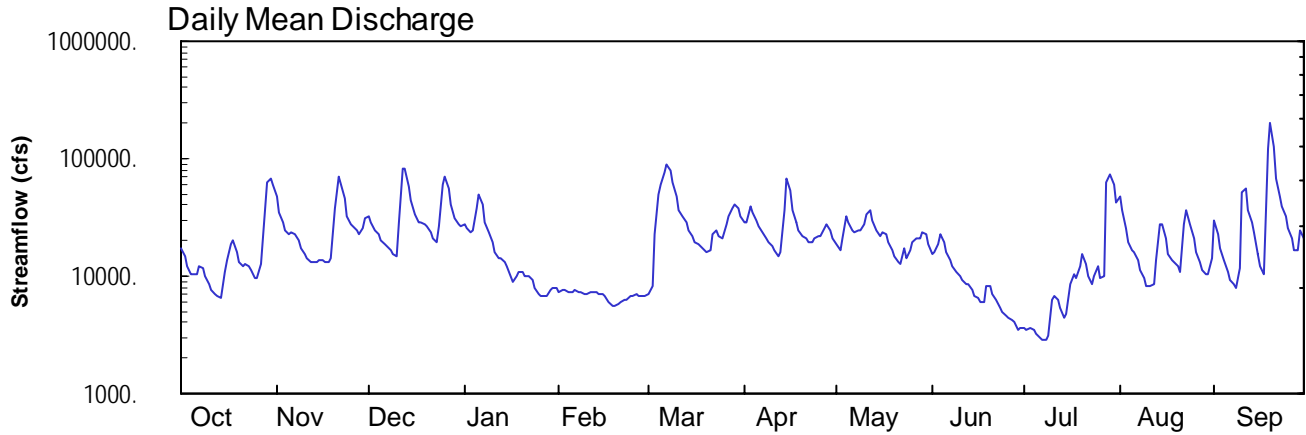
2004 Water Year SUSQUEHANNA RIVER BASIN

01536500 Susquehanna River at Wilkes-Barre, PA

Latitude: 41° 15 ' 03"
Luzerne County

Longitude: 075° 52 ' 52"
Datum: 510.86 feet

Hydrologic Unit Code: 02050107
Drainage Area: 9960. mi²



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 good except for period Oct. 1 to July 3, which is fair, and 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)
Dec. 13	0030	90,700	18.67	Sept. 19	0200	*227,000	*34.96
Mar. 7	0900	89,800	18.55				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17100	48100	32000	27300	e7400	6920	28200	18600	15600	e3650	47100	29400
2	14700	34900	28200	25100	e7500	8250	29100	16900	15700	e3520	36500	22700
3	12000	28200	24800	23500	e7600	23000	38800	21100	18300	e3570	25700	17300
4	10500	24900	22300	24200	e7200	50100	34300	32000	22900	3510	19700	13600
5	10300	23100	19900	37700	e7200	60500	30100	28600	19200	3260	16900	10900
6	10200	23200	18700	48700	e7600	75600	26200	24900	16000	2970	15700	9400
7	12100	22300	17900	40400	e7300	88500	23200	24000	13800	2860	13500	8400
8	11600	19800	16500	29200	7330	78600	20900	24700	12200	2830	11300	7960
9	9880	17400	15500	23300	e7100	61600	19300	24700	10800	3120	9620	11700
10	8550	15400	14700	19400	6960	47100	17800	27800	9910	6180	8300	51600
11	7560	14100	29200	16300	7340	36900	16300	33200	9220	6780	8380	56500
12	6990	13200	83200	14000	7440	31700	14900	36000	8710	6310	8690	36400
13	6710	13200	80800	e14000	7300	28300	15900	29600	8430	5260	13400	28700
14	6490	13000	58500	e13000	7120	24800	36600	24900	e7630	4480	27200	23300
15	11000	13500	44000	e12000	7020	21700	66800	22100	e6770	4830	27400	15100
16	13600	13600	33700	e10000	e6700	19200	53900	23900	e6500	8580	20900	12200
17	18600	13200	29100	e8800	e6100	18600	36800	22600	e6120	10400	15600	10500
18	20500	13100	28700	e10000	5580	17800	28100	19200	e6120	9620	13600	122000
19	16200	14200	28000	e11000	5680	16700	24100	16600	e8220	12000	13100	204000
20	13000	38400	26700	e11000	5870	15700	21800	14500	e8320	15200	12100	125000
21	12300	70500	24000	e10000	6020	16800	21300	12900	e7030	12500	11000	67000
22	12600	61400	21400	e10000	6270	22900	19600	12400	e6230	10100	27200	48400
23	12100	46200	19600	e9300	6310	24400	19400	17000	e5450	8490	36400	38800
24	11200	32700	26500	e7800	6710	21900	21100	14300	e4980	9950	27800	32100
25	9690	27900	59900	e7000	6750	20900	21500	16600	e4660	12000	21200	25500
26	9660	26000	69300	e6800	6920	27500	21500	19500	e4360	9800	16100	20700
27	12800	24400	54900	e6800	6810	32600	25500	20800	e4230	9830	13300	16600
28	35400	22600	41400	e6700	6690	37400	27700	21100	e4140	63500	11300	16600
29	61800	25600	31500	e7600	6670	41400	24800	23400	e3550	72100	10300	24700
30	67600	31300	27500	e7900	---	38100	21200	23100	e3630	60500	10200	21000
31	61200	---	26600	e7900	---	32400	---	18300	---	42300	14100	---
TOTAL	543930	785400	1055000	506700	198490	1047870	806700	685300	278710	430000	563590	1128060
MEAN	17550	26180	34030	16350	6844	33800	26890	22110	9290	13870	18180	37600
MAX (WY)	67600	70500	83200	48700	7600	88500	66800	36000	22900	72100	47100	204000
MIN	6490	13000	14700	6700	5580	6920	14900	12400	3550	2830	8300	7960
CFSM	1.76	2.63	3.42	1.64	0.69	3.39	2.70	2.22	0.93	1.39	1.83	3.78
IN.	2.03	2.93	3.94	1.89	0.74	3.91	3.01	2.56	1.04	1.61	2.10	4.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1899 - 2004, BY WATER YEAR (WY)

MEAN	6972	11220	14130	13960	14780	30320	31210	16600	9329	5491	4137	4641
MAX (WY)	39860	32130	44610	40740	43030	80560	100000	39590	54330	29010	19560	37600
MIN (WY)	1978	1928	1997	1996	1976	1936	1993	1943	1972	1902	1994	2004
MIN (WY)	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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1899 - 2004	
ANNUAL TOTAL	7867030		8029750			
ANNUAL MEAN	21550		21940		13570	
HIGHEST ANNUAL MEAN					21990	
LOWEST ANNUAL MEAN					6186	
HIGHEST DAILY MEAN	119000	Mar 22	204000	Sep 19	329000	Jun 24 1972
LOWEST DAILY MEAN	3580	Aug 31	2830	Jul 8	532	Sep 27 1964
ANNUAL SEVEN-DAY MINIMUM	3950	Aug 26	a3160	Jul 3	546	Sep 21 1964
MAXIMUM PEAK FLOW			227000	Sep 19	b345000	Jun 24 1972
MAXIMUM PEAK STAGE			34.96	Sep 19	c40.91	Jun 24 1972
INSTANTANEOUS LOW FLOW					528	Sep 27 1964
ANNUAL RUNOFF (CFSM)	2.16		2.20		1.36	
ANNUAL RUNOFF (INCHES)	29.38		29.99		18.51	
10 PERCENT EXCEEDS	48300		41700		32500	
50 PERCENT EXCEEDS	14700		16600		7250	
90 PERCENT EXCEEDS	6050		6700		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.