



2005 Water Year
SUSQUEHANNA RIVER BASIN
01540500 Susquehanna River at Danville, PA

Latitude: 40° 57' 29"

Longitude: 076° 37' 10"

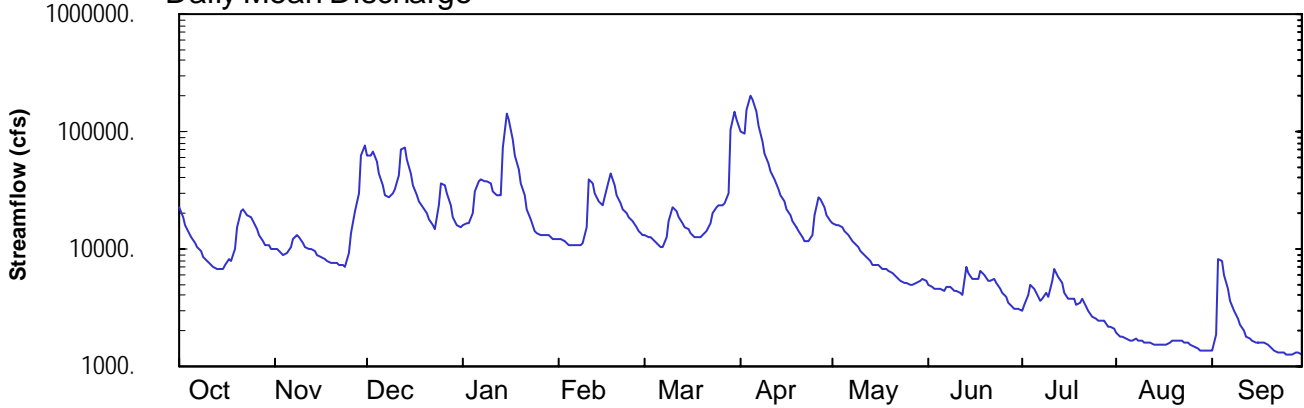
Hydrologic Unit Code: 02050107

Montour County

Datum: 431.29 feet

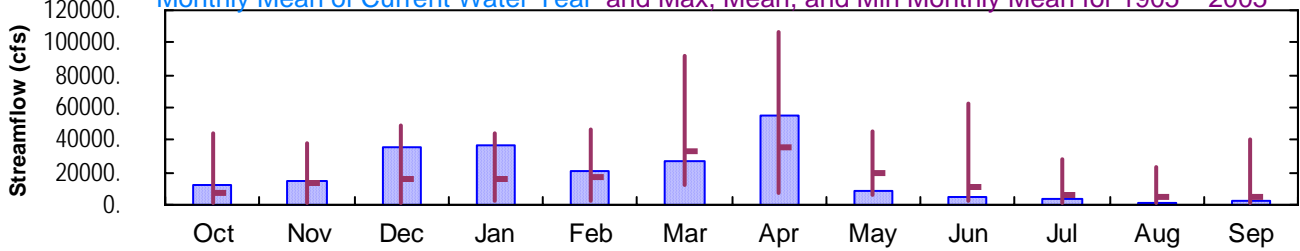
Drainage Area: 11220 mi²

Daily Mean Discharge

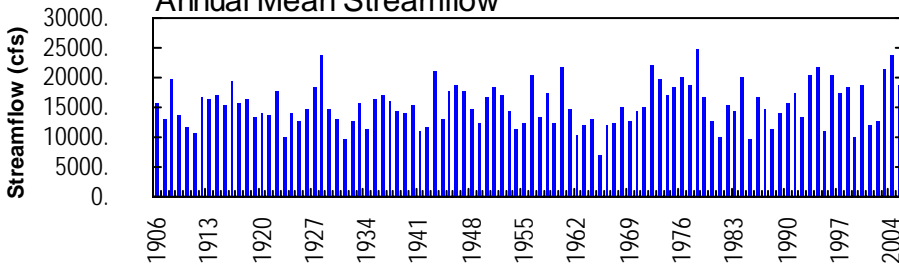


Monthly Statistics

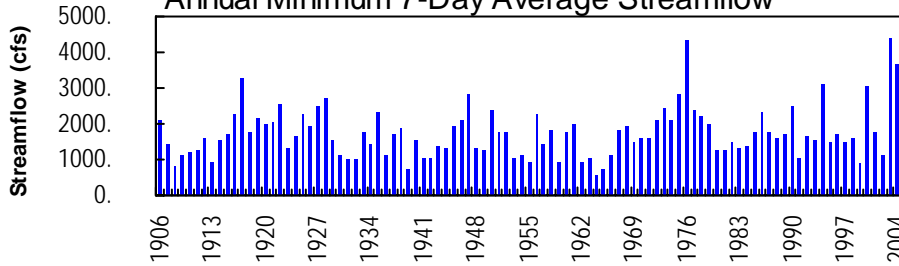
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1905 – 2005



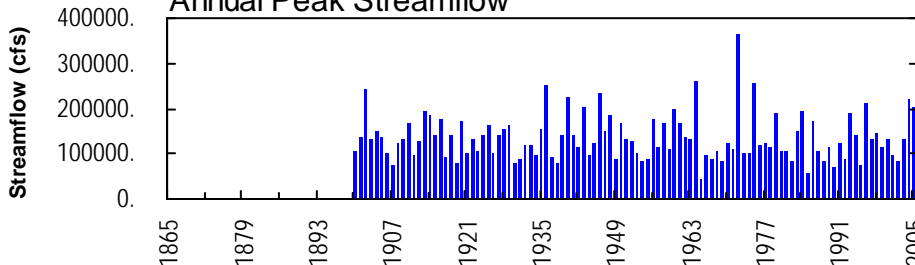
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



SUSQUEHANNA RIVER BASIN

01540500 SUSQUEHANNA RIVER AT DANVILLE, PA
(Pennsylvania Water-Quality Network Station)

LOCATION.--Lat 40°57'29", long 76°37'10", Montour County, Hydrologic Unit 02050107, on right bank 800 ft upstream from State Route 54 bridge at Danville, and 0.8 mi upstream from Mahoning Creek.

DRAINAGE AREA.--11,220 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1899 to current year. Prior to April 1905 monthly discharge only, published in WSP 1302.

REVISED RECORDS.--WSP 756: Drainage area. WSP 1302: 1904, 1914-17, 1923. WSP 1432: 1900-03, 1905-06, 1908-10, 1912-13, 1933.

GAGE.--Water-stage recorder. Datum of gage is 431.29 ft above National Geodetic Vertical Datum of 1929. Prior to June 29, 1939, nonrecording gage at or near Mill Street bridge at same datum. Since Oct. 1, 1971, water-stage recorder for Susquehanna River at Sunbury (station 01553990), used as an auxiliary gage.

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.--Flood of Mar. 18, 1865, reached a stage of 28 ft, discharge not determined.

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	22400	9890	61400	16100	e12000	12900	100000	16500	5050	e3000	1930	1340
2	18400	9920	63000	16600	e12000	12800	95800	15900	4760	e3400	1810	1900
3	15700	9270	67000	16800	11600	12500	155000	15700	4560	e4000	1770	8370
4	13800	8820	55800	20500	e11000	11600	199000	15100	4630	e5000	1710	7880
5	12400	9400	44600	30900	e11000	11000	188000	14200	4590	e4600	1650	6050
6	11300	10500	34600	38200	e11000	10600	148000	13000	4340	4270	1670	4640
7	10400	12200	29100	39500	10900	10300	113000	11900	4740	3630	1720	3680
8	9470	13000	27500	37400	10800	12600	82800	11100	4670	3760	1630	3030
9	8680	12400	29300	37500	11400	17200	64300	10300	4460	4210	1640	2570
10	8050	11400	32500	36000	15300	23000	54100	9570	4450	3940	1620	2240
11	7530	10300	42000	31100	39100	20700	46300	9030	4310	5280	1610	1990
12	7110	9970	70000	28700	36300	18600	38800	8560	4150	6700	1580	1820
13	6760	10000	73000	28600	29700	16300	32500	7970	7130	5760	1550	1700
14	6740	9500	56900	73400	25000	15400	28200	7420	6200	5110	1520	1630
15	6720	9030	44500	142000	23500	14600	25000	7390	5550	4240	1520	1620
16	7190	8640	35400	126000	27600	13600	22000	7220	5470	3760	1530	1610
17	8160	8220	29100	85600	38400	12800	19600	6900	5560	3790	1560	1600
18	7920	7860	25100	63500	43300	12400	17000	6680	6600	3720	1580	1570
19	9850	7660	22400	48100	35100	12500	15400	6460	5950	3410	1630	1540
20	15300	7530	20200	36900	28500	13100	14200	6300	5400	3490	1690	1420
21	21000	7470	17900	28500	24200	14200	12800	6010	5420	3710	1690	1360
22	21800	7320	15700	e22000	21500	16800	11600	5670	5550	3270	1660	1330
23	19400	7210	14800	e18000	20000	19800	11700	5390	5160	2960	1620	1310
24	19000	7170	24000	e14000	18700	22400	13200	5210	4650	2700	1570	1290
25	17100	9370	36500	13700	17300	23600	19300	5110	4250	2520	1520	1280
26	14900	13600	34700	13000	15600	23400	27700	5040	3890	2450	1470	1280
27	13100	21100	29300	e13000	14500	24700	27000	5020	3490	2420	1420	1280
28	11800	29400	23400	e13000	13400	29900	22800	5120	3240	2410	1390	1310
29	10900	62000	18700	e13000	---	103000	19200	5300	3070	2220	1360	1300
30	10700	74800	16000	12100	---	149000	17200	5460	3110	2140	1360	1280
31	10200	---	15500	e12000	---	124000	---	5380	---	2070	1340	---
TOTAL	383780	434950	1109900	1125700	588700	835300	1641500	265910	144400	113940	49320	71220
MEAN	12380	14500	35800	36310	21020	26950	54720	8578	4813	3675	1591	2374
MAX	22400	74800	73000	142000	43300	149000	199000	16500	7130	6700	1930	8370
MIN	6720	7170	14800	12000	10800	10300	11600	5020	3070	2070	1340	1280
CFSM	1.10	1.29	3.19	3.24	1.87	2.40	4.88	0.76	0.43	0.33	0.14	0.21
IN.	1.27	1.44	3.68	3.73	1.95	2.77	5.44	0.88	0.48	0.38	0.16	0.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2005, BY WATER YEAR (WY)

MEAN	7903	12930	16400	16310	16850	32640	35170	19370	10890	6374	4789	5489
MAX	43890	38540	49410	44410	46420	91900	106900	44980	62370	28490	23110	40630
(WY)	1978	1927	1997	1996	1976	1936	1993	1943	1972	1915	1915	2004
MIN	868	852	1602	1853	2841	11740	7664	5643	2427	1308	1087	740
(WY)	1965	1965	1909	1931	1920	1965	1946	1941	1999	1965	1999	1964

e Estimated.

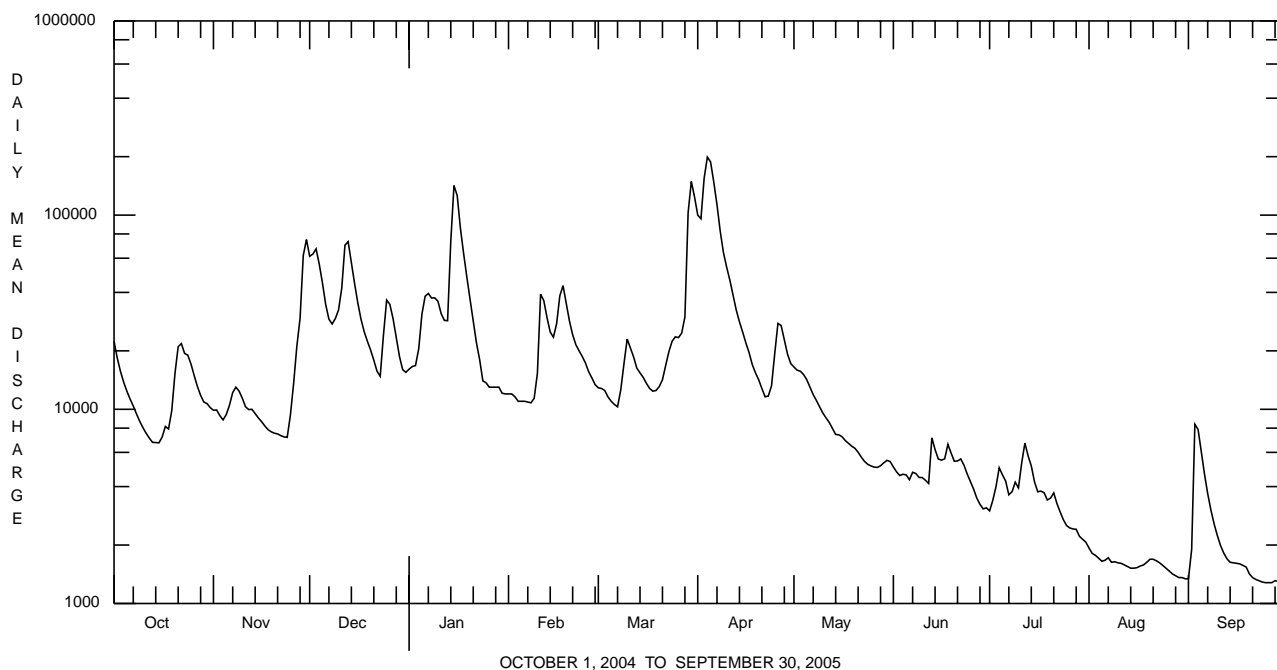
SUSQUEHANNA RIVER BASIN

01540500 SUSQUEHANNA RIVER AT DANVILLE, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1905 - 2005	
ANNUAL TOTAL	7968020		6764620			
ANNUAL MEAN	21770		18530		15420	
HIGHEST ANNUAL MEAN					24670	1978
LOWEST ANNUAL MEAN					6948	1965
HIGHEST DAILY MEAN	205000	Sep 19	199000	Apr 4	335000	Jun 25 1972
LOWEST DAILY MEAN	3350	Jul 9	1280	Sep 25-27,30	558	Sep 24 1964
ANNUAL SEVEN-DAY MINIMUM	3670	Jul 4	1290	Sep 24	579	Sep 21 1964
MAXIMUM PEAK FLOW			202000	Apr 4	^a 363000	Jun 25 1972
MAXIMUM PEAK STAGE			^b 24.28	Apr 4	^b 32.32	Jun 24 1972
INSTANTANEOUS LOW FLOW					508	Sep 27 1964
ANNUAL RUNOFF (CFSM)	1.94		1.65		1.37	
ANNUAL RUNOFF (INCHES)	26.42		22.43		18.67	
10 PERCENT EXCEEDS	42400		38600		36200	
50 PERCENT EXCEEDS	15800		10700		8600	
90 PERCENT EXCEEDS	7170		1630		2110	

a From rating curve extended above 250,000 ft³/s.

b Adjusted for backwater from West Branch Susquehanna River.



SUSQUEHANNA RIVER BASIN

01540500 SUSQUEHANNA RIVER AT DANVILLE, PA--Continued
(Pennsylvania Water-Quality Network Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--Samples were collected using a D-Frame net with a mesh size of 500 µm. Samples represent counts per 100 animal (approximate) subsamples.

COOPERATION.--Samples were collected as part of the Pennsylvania Department of Environmental Protection Water-Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATES

Date	10/25/04
Benthic macroinvertebrate	Count
Mollusca	
Gastropoda (SNAILS)	
Basommatophora	
Physidae	
<i>Physa</i>	1
Pleuroceridae	
<i>Elimia</i>	2
<i>Leptoxis carinata</i>	1
Bivalvia (CLAMS)	
Veneroida	
Corbiculidae	
<i>Corbicula fluminea</i>	8
Sphaeriidae	
<i>Sphaerium</i>	3
Annelida	
Oligochaeta (AQUATIC EARTHWORMS)	
Tubificida	
Tubificidae	46
Arthropoda	
Crustacea	
Amphipoda (SCUDS)	
Gammaridae	
<i>Gammarus</i>	9
Decapoda	
Cambaridae (CRAYFISH)	
<i>Orconectes</i>	1
Insecta	
Ephemeroptera (MAYFLIES)	
Ephemerellidae	
<i>Serratella</i>	1
Heptageniidae	1
<i>Leucrocuta</i>	1
<i>Stenonema</i>	5
Isonychiidae	
<i>Isonychia</i>	3
Potamanthidae	
<i>Anthopotamus</i>	1
Plecoptera (STONEFLIES)	
Perlidae	
<i>Agnatina</i>	1
Taeniopterygidae	
<i>Taeniopteryx</i>	10
Trichoptera (CADDISFLIES)	
Hydropsychidae	
<i>Cheumatopsyche</i>	7
<i>Hydropsyche</i>	2
<i>Macrostemum</i>	1

SUSQUEHANNA RIVER BASIN

01540500 SUSQUEHANNA RIVER AT DANVILLE, PA--Continued

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATES--Continued

Date	10/25/04
Benthic macroinvertebrate	Count
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
<i>Macronychus</i>	1
<i>Optioservus</i>	2
<i>Stenelmis</i>	13
Diptera (TRUE FLIES)	
Simuliidae (BLACK FLIES)	
<i>Simulium</i>	1
Total Organisms	121
Total Taxa	23