



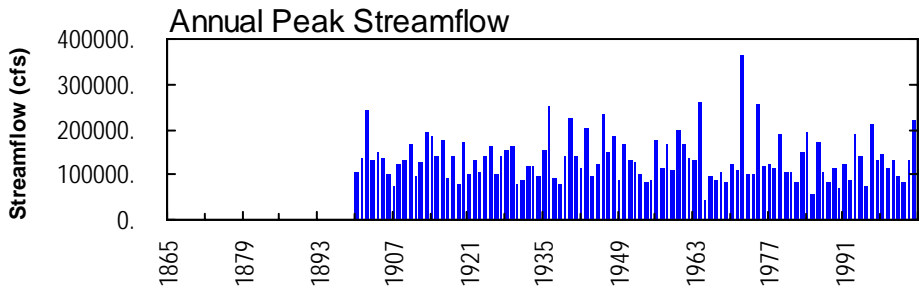
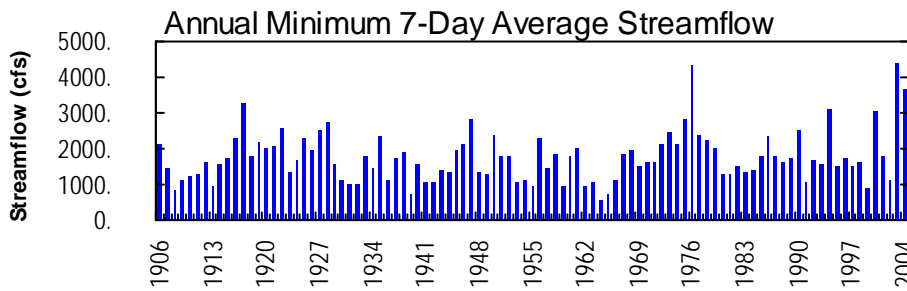
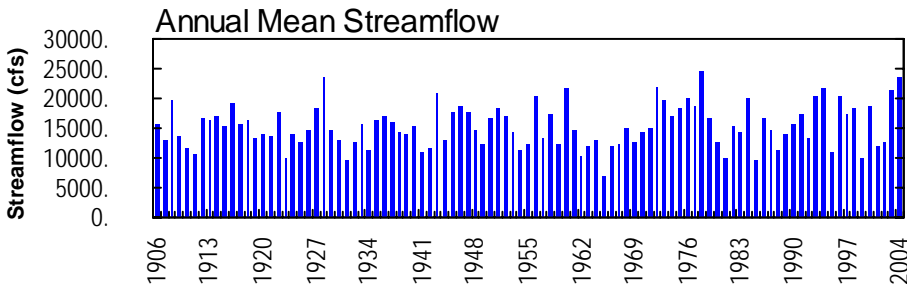
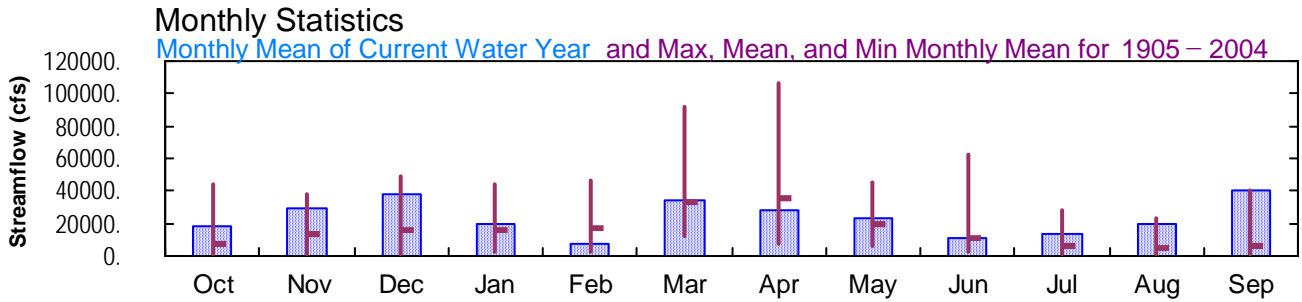
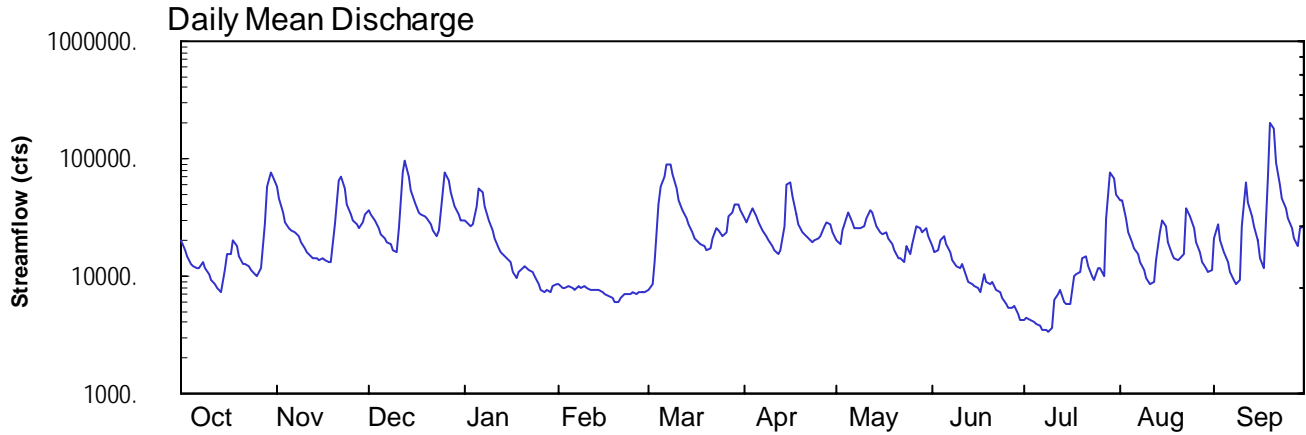
2004 Water Year SUSQUEHANNA RIVER BASIN

01540500 Susquehanna River at Danville, PA

Latitude: 40° 57' 29"
Montour County

Longitude: 076° 37' 10"
Datum: 431.29 feet

Hydrologic Unit Code: 02050107
Drainage Area: 11220 mi²



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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19900	57900	36300	30300	e8500	7530	31000	20500	18200	4200	44400	21100
2	16900	45400	34000	29000	e7900	8420	28200	18400	16000	4390	44800	27800
3	14500	35200	29300	26600	7860	13100	34700	24100	16800	4320	31400	20300
4	12500	29200	25600	27700	8170	41000	38100	31400	20400	4090	23600	16200
5	12100	25300	22800	39900	7940	58400	32500	34300	21700	3970	19100	12900
6	11600	24100	20800	55200	7670	70100	28200	29000	18900	3740	17000	10700
7	11700	23600	19600	51800	8270	89300	24600	26000	15900	3480	15600	9360
8	12900	21800	18300	39300	e7800	89600	21700	25800	13700	3450	13100	8520
9	11900	19400	16800	30400	8120	72200	19900	26000	12100	3350	11100	9250
10	10400	17300	16000	24500	7770	56600	18200	26900	11500	3630	9550	26200
11	9340	15800	25000	21300	7490	44100	16800	30700	12600	6320	8710	63300
12	8490	14700	75400	17200	7740	35900	15400	36200	10200	7080	8920	43200
13	7810	14200	95300	15800	7700	31400	16400	34700	9060	7550	13500	32400
14	7440	14000	71500	e15000	7530	27500	26200	27000	8670	6120	23200	26200
15	11000	13700	54400	e14000	7440	23900	60400	24000	8210	5730	33000	20300
16	15600	14200	42300	e13000	7080	20900	63500	23000	7850	5790	26100	14000
17	15200	13900	35100	e11000	e6800	19300	46900	24000	7230	10200	19600	11800
18	19800	13100	33500	e9500	e6400	18500	33600	21300	10600	10600	15600	74600
19	18200	13300	32300	e11000	6010	17600	27100	18500	8830	10700	14300	205000
20	14900	27800	30700	11700	6080	16600	23500	16300	8550	14100	13600	179000
21	12700	64900	28000	e12000	6410	17600	21800	14400	9010	15000	14300	93500
22	12500	69600	24500	11300	6950	21200	20800	e14000	7600	12100	15600	61000
23	12300	55800	22100	e11000	7020	25500	19400	e13000	7440	10000	37600	46600
24	11400	41400	25000	e10000	7080	24200	20100	e18000	6520	9390	32400	38000
25	10400	33900	50500	e8500	7200	21800	21400	15100	5900	11900	25700	31100
26	9930	30000	74900	7610	7170	23800	22000	18500	5420	11600	19700	25200
27	11600	27700	64200	7440	7250	31700	26100	27000	5380	10100	15700	20800
28	27600	25800	50700	7480	7180	35200	28700	25900	5620	30900	13300	18100
29	59000	28500	39400	e7400	7290	41100	28100	24000	4730	76500	11500	25700
30	75300	33500	33200	8270	---	40800	23900	25400	4290	66500	10900	26700
31	70200	---	30300	e8500	---	36200	---	21800	---	50500	11200	---
TOTAL	575110	865000	1177800	593700	213820	1081050	839200	735200	318910	427300	611380	1218830
MEAN	18550	28830	37990	19150	7373	34870	27970	23720	10630	13780	19720	40630
MAX	75300	69600	95300	55200	8500	89600	63500	36200	21700	76500	44800	205000
MIN	7440	13100	16000	7400	6010	7530	15400	13000	4290	3350	8710	8520
CFSM	1.65	2.57	3.39	1.71	0.66	3.11	2.49	2.11	0.95	1.23	1.76	3.62
IN.	1.91	2.87	3.91	1.97	0.71	3.58	2.78	2.44	1.06	1.42	2.03	4.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2004, BY WATER YEAR (WY)

MEAN	7857	12910	16210	16110	16810	32700	34980	19470	10950	6401	4821	5520
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1905 - 2004	
ANNUAL TOTAL	8770280		8657300			
ANNUAL MEAN	24030		23650		15380	
HIGHEST ANNUAL MEAN					24670	1978
LOWEST ANNUAL MEAN					6948	1965
HIGHEST DAILY MEAN	129000	Mar 22	205000	Sep 19	335000	Jun 25 1972
LOWEST DAILY MEAN	4340	Aug 29	3350	Jul 9	558	Sep 24 1964
ANNUAL SEVEN-DAY MINIMUM	4640	Aug 26	3670	Jul 4	579	Sep 21 1964
MAXIMUM PEAK FLOW			220000	Sep 19	a 363000	Jun 25 1972
MAXIMUM PEAK STAGE			b 26.22	Sep 19	b 32.32	Jun 24 1972
INSTANTANEOUS LOW FLOW					508	Sep 27 1964
ANNUAL RUNOFF (CFSM)	2.14		2.11		1.37	
ANNUAL RUNOFF (INCHES)	29.08		28.70		18.63	
10 PERCENT EXCEEDS	53900		45800		36200	
50 PERCENT EXCEEDS	16400		18200		8600	
90 PERCENT EXCEEDS	7690		7280		2120	

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

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.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unfltrd lab, µS/cm 25 degC (90095)	Specif. conductance, wat unfltrd lab, µS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water unfltrd recover -able, mg/L (00916)	Magnesium, water, unfltrd recover -able, mg/L (00927)
OCT 2003 21...	1445	1028	9813	12400	11.0	7.5	7.3	202	208	11.3	73	20.8	5.1
DEC 17...	1230	1028	9813	34800	11.3	6.4	7.2	160	165	1.3	58	16.5	4.0
FEB 2004 18...	1500	1028	9813	E6400	13.9	7.4	7.9	323	332	1.0	110	31.8	7.6
APR 21...	1030	1028	9813	21800	9.7	7.3	7.5	194	128	13.5	67	19.9	4.1
JUN 07...	1500	1028	9813	15500	8.7	7.4	7.3	206	215	18.3	77	23.2	4.7
AUG 17...	1415	1028	9813	19000	8.2	7.7	7.1	190	192	21.0	66	19.2	4.4

Date	ANC, wat unfltrd fixed end pt, lab, mg/L as CaCO3 (00417)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 105degC, wat fltrd, mg/L (00515)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia water, unfltrd mg/L as N (00610)	Nitrate water, unfltrd mg/L as N (00620)	Nitrite water, unfltrd mg/L as N (00615)	Ortho-phosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfltrd mg/L (00600)	Organic carbon, water, unfltrd mg/L (00680)	Aluminum, water, unfltrd recover -able, µg/L (01105)	Copper, water, unfltrd recover -able, µg/L (01042)
OCT 2003 21...	48	21.8	128	<2	<.020	.52	<.040	.02	.040	.81	3.4	300	<10
DEC 17...	37	16.9	120	16	.030	.75	<.040	.05	.055	.78	2.8	1100	<10
FEB 2004 18...	67	33.6	186	10	.130	1.33	<.040	.03	.043	1.7	1.8	<200	<10
APR 21...	44	17.6	132	12	<.020	.76	<.040	.03	.048	1.1	2.4	600	<10
JUN 07...	52	18.3	122	38	<.020	.73	<.040	.03	.070	1.0	3.2	1100	<10
AUG 17...	52	14.6	136	28	<.020	.46	<.040	.03	.054	.90	3.6	1000	<10

Date	Iron, water, unfltrd recover -able, µg/L (01045)	Lead, water, unfltrd recover -able, µg/L (01051)	Manganese, water, unfltrd recover -able, µg/L (01055)	Nickel, water, unfltrd recover -able, µg/L (01067)	Zinc, water, unfltrd recover -able, µg/L (01092)	Gross alpha radioac water unfltrd pCi/L (01519)	Gross beta radioac water unfltrd pCi/L (85817)	Tritium water unfltrd pCi/L (07000)
OCT 2003 21...	820	<1.0	100	<50	<10	--	1	27
DEC 17...	1430	<1.0	100	<50	10	--	--	--
FEB 2004 18...	670	<1.0	140	<50	10	--	2	153
APR 21...	1160	<1.0	80	<50	10	--	2	--
JUN 07...	1780	1.5	140	<50	<10	.48	2	--
AUG 17...	1440	1.4	120	<50	<10	1.07	2	20

SUSQUEHANNA RIVER BASIN

01540500 SUSQUEHANNA RIVER AT DANVILLE, PA--Continued

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATES

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

Date	10/21/03
Benthic Macroinvertebrate	Count
Platyhelminthes	
Turbellaria (FLATWORMS)	
Tricladida	
Planariidae	1
Nematoda (NEMATODES)	1
Mollusca	
Gastropoda (SNAILS)	
Basommatophora	
Ancylidae	
<i>Ferrissia</i>	1
Bivalvia (CLAMS)	
Veneroida	
Corbiculidae	
<i>Corbicula fluminea</i>	19
Sphaeriidae	
<i>Pisidium</i>	1
<i>Sphaerium</i>	10
Annelida	
Oligochaeta (AQUATIC EARTHWORMS)	
Lumbriculida	
Lumbriculidae	2
Tubificida	
Naididae	1
Tubificidae	9
Arthropoda	
Crustacea	
Amphipoda (SCUDS)	
Gammaridae	
<i>Gammarus</i>	2
Insecta	
Ephemeroptera (MAYFLIES)	
Ephemerellidae	1
<i>Serratella</i>	1
Heptageniidae	
<i>Leucrocuta</i>	2
<i>Stenonema</i>	3
Potamanthidae	
<i>Anthopotamus</i>	5
Plecoptera (STONEFLIES)	
Taeniopterygidae	
<i>Taeniopteryx</i>	10
Trichoptera (CADDISFLIES)	
Glossosomatidae	
<i>Protoptila</i>	2
Hydropsychidae	
<i>Cheumatopsyche</i>	18
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
<i>Optioservus</i>	2
<i>Oulimnius</i>	1
<i>Stenelmis</i>	18

SUSQUEHANNA RIVER BASIN

01540500 SUSQUEHANNA RIVER AT DANVILLE, PA--Continued

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATES--Continued

Date	10/21/03
Benthic Macroinvertebrate	Count
Diptera (TRUE FLIES)	
Ceratopogonidae (BITING MIDGES)	1
Chironomidae (MIDGES)	14
Empididae (DANCE FLIES)	
<i>Hemerodromia</i>	1
Total Organisms	126
Total Taxa	24