



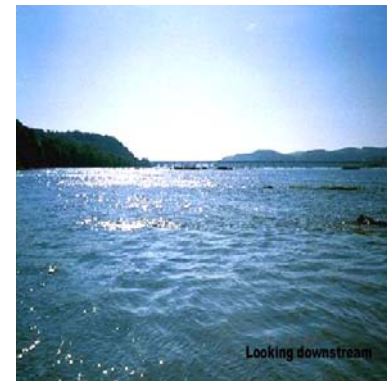
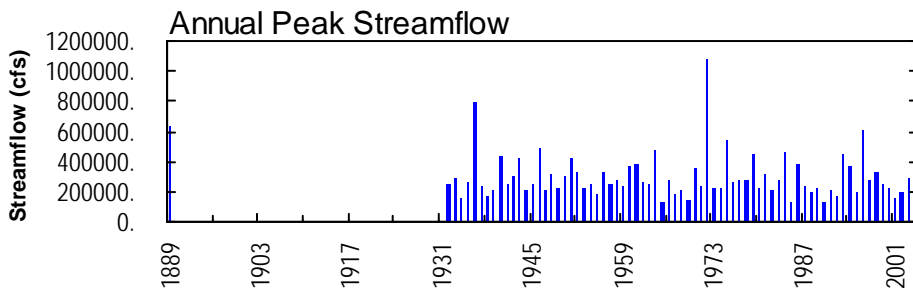
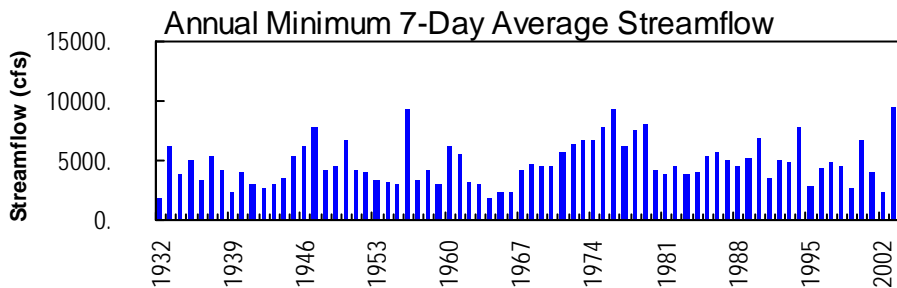
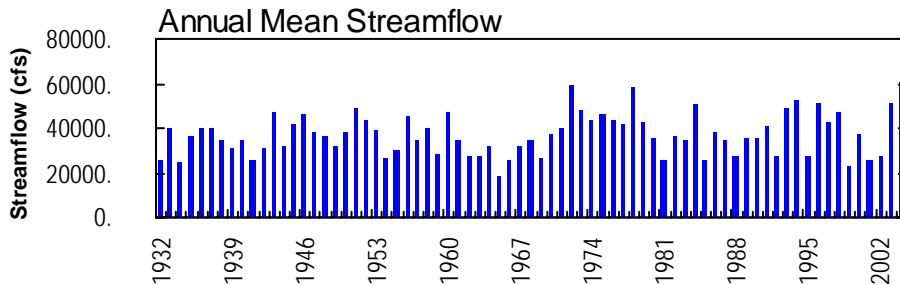
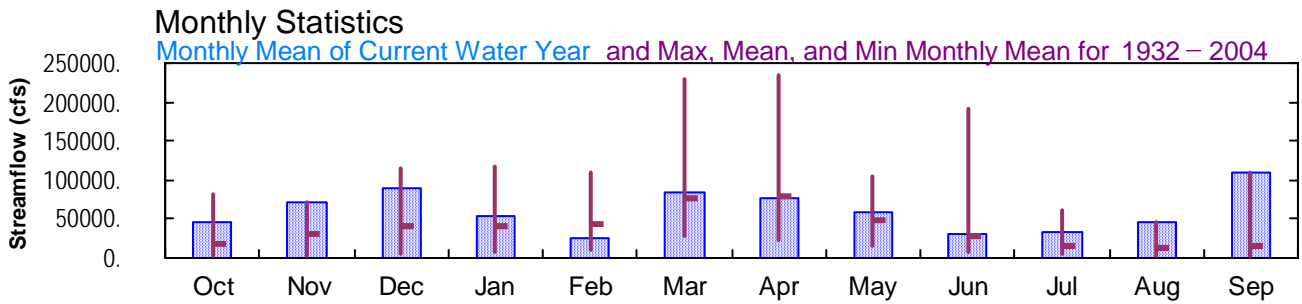
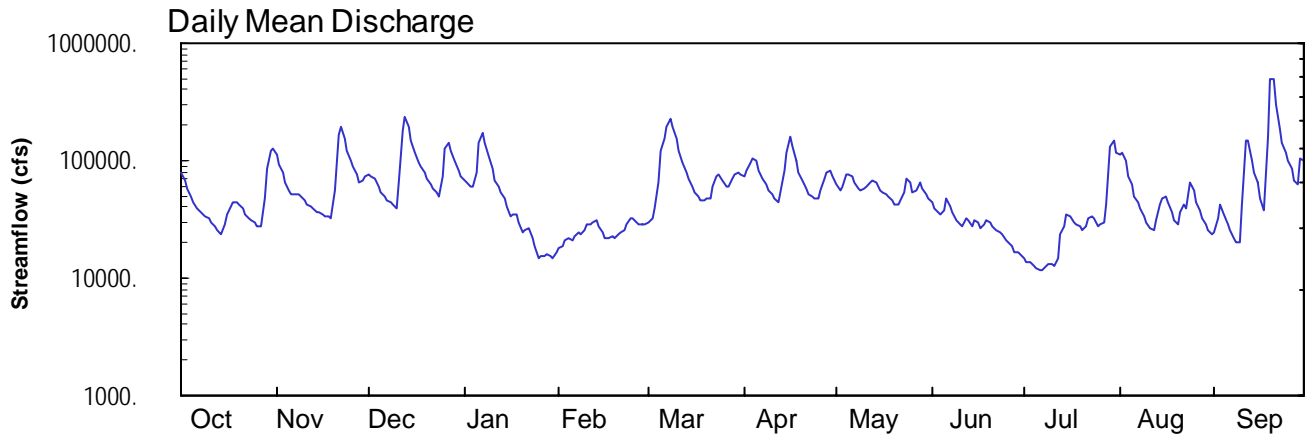
2004 Water Year SUSQUEHANNA RIVER BASIN

01576000 Susquehanna River at Marietta, PA

Latitude: 40° 03 ' 16"
Lancaster County

Longitude: 076° 31 ' 52"
Datum: 200.56 feet

Hydrologic Unit Code: 02050306
Drainage Area: 25990 mi²



01576000-Susquehanna River at Marietta

SUSQUEHANNA RIVER BASIN

01576000 SUSQUEHANNA RIVER AT MARIETTA, PA

LOCATION.--Lat 40°03'16", long 76°31'52", Lancaster County, Hydrologic Unit 02050306, on left bank 420 ft upstream from Chickies Creek, and 1.0 mi downstream from Marietta. Records include flow of Chickies Creek.

DRAINAGE AREA.--25,990 mi², approximately, includes that of Chickies Creek.

PERIOD OF RECORD.--October 1931 to current year.

REVISED RECORDS.--WSP 781: 1933(M). WSP 1502: 1937.

GAGE.--Water-stage recorder. Datum of gage is 200.56 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for period Jan. 15 to Feb. 17, which are fair. Flow slightly regulated by 16 flood-control reservoirs which have a combined capacity of 1,599,000 acre-ft. Some diurnal fluctuation below 8,000 ft³/s caused by hydroelectric plant 9.7 mi upstream. Several measurements of water temperature were made during the year. Satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 2, 1889, reached a stage of 58.2 ft, from floodmark, discharge, about 630,000 ft³/s.

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	78800	111000	75900	67100	e18000	29500	71800	62700	43700	14500	111000	24700
2	68100	93600	74200	63900	e19000	32400	82000	55300	39500	13900	119000	32000
3	57200	78100	69500	60800	e21000	39900	96400	61200	36400	13500	98400	42400
4	49400	65200	60800	59700	e22000	65700	104000	75000	35300	12800	72300	34300
5	43700	56700	54100	78900	e21000	121000	98600	77300	37500	12300	61700	29100
6	39900	52000	50000	144000	e23000	154000	81500	73400	47200	11800	50500	25100
7	38100	52100	45700	174000	e25000	194000	70800	64200	40700	11800	44700	21900
8	35500	51800	44100	145000	e24000	223000	62100	58700	35700	e12500	39300	20200
9	33800	50000	41800	110000	e26000	194000	56300	56300	31400	e13000	34100	20200
10	32600	45900	39100	85100	e29000	152000	51600	58600	28300	13300	30000	41100
11	30300	42200	68500	68900	e29000	121000	47500	60200	28100	12800	26900	149000
12	27700	40000	181000	61000	e30000	96600	43600	65800	32700	14900	25800	147000
13	25700	39000	232000	54200	e31000	79700	54000	68800	30600	23500	31600	101000
14	23900	36600	198000	47200	e28000	70000	82100	64800	27600	27100	41600	80200
15	28200	35600	148000	e40000	e25000	60900	116000	55700	31000	34500	48100	64400
16	34300	34700	115000	e34000	e22000	53900	157000	54600	29600	33200	50300	48000
17	41500	33900	96500	e35000	e22000	49600	133000	52300	26100	30000	43800	38200
18	43600	33300	88300	e35000	22900	46300	102000	48700	29000	28300	36200	158000
19	44200	32800	78200	e30000	21900	46100	80300	45500	31400	27600	31100	e495000
20	42500	55600	70700	e25000	23500	46800	66800	42700	29600	25800	28400	e497000
21	38500	166000	63800	e26000	24900	47200	58400	42700	27500	28000	35800	297000
22	34400	197000	58000	e27000	26000	61300	52400	46400	25400	31700	41900	184000
23	32400	153000	52500	e22000	29200	74600	49200	53200	24300	33900	39200	140000
24	30900	121000	50000	e19000	31700	76400	47700	70100	23200	31700	64700	117000
25	29400	99200	72500	e15000	31600	68900	48100	64200	21400	27300	55400	100000
26	27500	87800	128000	e15500	30100	60600	55700	54100	19800	28200	44700	85100
27	27600	74700	144000	e15500	29100	60900	70700	55400	18600	30000	37100	68400
28	48200	65400	121000	e16000	29000	69700	80700	65000	16700	42000	31800	63800
29	86100	68400	98200	e15500	28500	76300	81700	58300	16400	131000	28600	104000
30	121000	74000	80800	e15000	---	80400	73100	50600	16100	148000	25900	98700
31	126000	---	72200	e16500	---	76000	---	47600	---	117000	23800	---
TOTAL	1421000	2146600	2772400	1621800	743400	2628700	2275100	1809400	880800	1035900	1453700	3326800
MEAN	45840	71550	89430	52320	25630	84800	75840	58370	29360	33420	46890	110900
MAX	126000	197000	232000	174000	31700	223000	157000	77300	47200	148000	119000	497000
MIN	23900	32800	39100	15000	18000	29500	43600	42700	16100	11800	23800	20200
CFSM	1.76	2.75	3.44	2.01	0.99	3.26	2.92	2.25	1.13	1.29	1.80	4.27
IN.	2.03	3.07	3.97	2.32	1.06	3.76	3.26	2.59	1.26	1.48	2.08	4.76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2004, BY WATER YEAR (WY)

MEAN	18010	29860	40020	40200	44510	76290	79180	48920	29150	16080	12710	14380
MAX	81330	71930	114300	116900	109300	229100	235100	103400	190700	61480	47180	110900
(WY)	1977	1978	1997	1996	1984	1936	1993	1989	1972	1972	1994	2004
MIN	2699	3041	6216	6635	10730	28120	22450	14240	6974	3957	3627	2296
(WY)	1964	1965	1999	1981	1934	1960	1946	1941	1999	1965	1966	1964

e Estimated.

SUSQUEHANNA RIVER BASIN

01576000 SUSQUEHANNA RIVER AT MARIETTA, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1932 - 2004	
ANNUAL TOTAL	21625100		22115600			
ANNUAL MEAN	59250		60430		37380	
HIGHEST ANNUAL MEAN					60430	
LOWEST ANNUAL MEAN					19060	
HIGHEST DAILY MEAN	284000	Mar 22	e 497000	Sep 20	1040000	Jun 24 1972
LOWEST DAILY MEAN	13400	Jul 21	11800	Jul 6,7	1380	Sep 26 1932
ANNUAL SEVEN-DAY MINIMUM	15300	Jul 16	12500	Jul 4	1720	Sep 26 1932
MAXIMUM PEAK FLOW			577000	Sep 20	a 1080000	Jun 23 1972
MAXIMUM PEAK STAGE			b 56.28	Sep 20	b 64.54	Jun 23 1972
INSTANTANEOUS LOW FLOW			11500	Jul 6	618	Sep 26 1932
ANNUAL RUNOFF (CFSM)	2.28		2.32		1.44	
ANNUAL RUNOFF (INCHES)	30.95		31.65		19.54	
10 PERCENT EXCEEDS	116000		118000		84800	
50 PERCENT EXCEEDS	46400		47000		22500	
90 PERCENT EXCEEDS	19300		22000		6010	

a From rating curve extended above 961,000 ft³/s.

b From floodmarks.

e Estimated.