

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.--No estimated daily discharges. Records good. 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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17900	7820	16400	11700	32100	23100	88600	67700	37600	30200	6730	4070
2	14700	7490	17800	13300	41200	22900	78500	73200	36800	26300	6630	4010
3	12700	7310	25100	12400	56000	24500	70000	72500	36000	22100	6130	3820
4	11100	6900	27900	12100	68000	25100	60800	71600	33700	19100	5900	3680
5	9890	6790	27300	12400	64500	25600	53400	67000	31000	16600	5380	3430
6	9020	6370	24800	12900	55100	26100	47100	59700	28400	14900	5190	3350
7	7990	6250	22400	12600	45600	26400	42900	52100	31100	13400	5710	3180
8	7300	6270	20300	12400	39000	26500	39500	45800	82100	12600	4300	2910
9	6680	6310	19000	12400	34300	26000	36500	42300	125000	11800	4430	2690
10	6450	6130	17900	13800	31400	24900	34200	41900	99000	11500	4570	2580
11	10800	6110	17800	15200	29100	23700	32200	49100	72400	10700	4300	2530
12	6650	5850	17300	15700	31800	24100	31000	53900	54000	9970	4030	2280
13	5650	5880	16300	15700	48700	23700	29700	54200	44400	9310	3760	2150
14	5350	5950	15700	16500	64000	23500	29000	98600	39000	9300	3640	2220
15	6020	5820	15700	16600	59700	23400	32400	190000	36200	8960	3480	2220
16	5700	5840	15800	15000	48900	23200	39000	181000	40800	8830	3450	2480
17	6440	5640	17000	15100	41100	22500	53200	148000	58300	8080	3450	2650
18	6440	5560	20200	14100	36900	23800	67000	124000	77500	7410	3770	2680
19	7140	5550	24800	13800	34900	25500	62000	134000	75000	7000	3450	2730
20	7550	5990	41000	12800	32900	29300	53400	137000	60300	6740	3470	2880
21	7700	5580	58500	12500	30400	36600	47900	130000	49700	6720	3060	3090
22	7240	5700	51000	12700	27900	44000	43400	105000	39900	7510	3130	3910
23	6970	5510	41300	12000	26600	45100	39900	84300	34200	7460	3190	4980
24	6630	5540	35200	12200	26500	46100	37500	69500	29800	7340	3240	5730
25	6580	5700	30900	14100	26800	43900	34800	59300	26900	6730	3570	9670
26	6350	7290	28100	15300	27300	40400	33200	51700	24600	6800	3190	9350
27	6450	7740	25800	16300	26200	46500	31100	46100	23100	6780	3120	11200
28	8230	11900	23700	20200	24100	114000	30000	42200	24100	7320	3350	12000
29	9750	16200	22000	26700	---	155000	33700	38200	23600	7420	4160	16300
30	8710	16800	18900	27700	---	130000	43600	37100	22200	7250	4170	21300
31	8180	---	15400	28200	---	104000	---	37500	---	7120	3890	---
TOTAL	254260	213790	771300	474400	1111000	1299400	1355500	2464500	1396700	343250	129840	156070
MEAN	8202	7126	24880	15300	39680	41920	45180	79500	46560	11070	4188	5202
MAX	17900	16800	58500	28200	68000	155000	88600	190000	125000	30200	6730	21300
MIN	5350	5510	15400	11700	24100	22500	29000	37100	22200	6720	3060	2150
CFSM	0.32	0.27	0.96	0.59	1.53	1.61	1.74	3.06	1.79	0.43	0.16	0.20
IN.	0.36	0.31	1.10	0.68	1.59	1.86	1.94	3.53	2.00	0.49	0.19	0.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2002, BY WATER YEAR (WY)

MEAN	17500	29130	39230	39910	45020	75700	79310	48880	28450	15690	11790	12490
MAX	81330	71930	114300	116900	109300	229100	235100	103400	190700	61480	47180	78650
(WY)	1977	1978	1997	1996	1984	1936	1993	1989	1972	1972	1994	1975
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

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01576000 SUSQUEHANNA RIVER AT MARIETTA, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1932 - 2002	
ANNUAL TOTAL	8896310		9970010			
ANNUAL MEAN	24370		27320		36860	
HIGHEST ANNUAL MEAN					59900	1972
LOWEST ANNUAL MEAN					19060	1965
HIGHEST DAILY MEAN	156000	Apr 12	190000	May 15	1040000	Jun 24 1972
LOWEST DAILY MEAN	3750	Sep 15	2150	Sep 13	1380	Sep 26 1932
ANNUAL SEVEN-DAY MINIMUM	4060	Sep 12	2350	Sep 10	1720	Sep 26 1932
MAXIMUM PEAK FLOW			197000	May 15	a1080000	Jun 23 1972
MAXIMUM PEAK STAGE			45.62	May 15	b64.54	Jun 23 1972
INSTANTANEOUS LOW FLOW			2130	Sep 13	c618	Sep 26 1932
ANNUAL RUNOFF (CFSM)	0.94		1.05		1.42	
ANNUAL RUNOFF (INCHES)	12.73		14.27		19.27	
10 PERCENT EXCEEDS	60400		59900		83800	
50 PERCENT EXCEEDS	15400		17800		22000	
90 PERCENT EXCEEDS	5520		3900		5950	

- a From rating curve extended above 961,000 ft³/s.
- b From floodmarks.
- c York Haven powerplant shut down to obtain current-meter measurements of low flow.

