

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 sea level.

REMARKS.--Records good except those for estimated daily discharges, 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8670	9230	16200	e18000	e14600	30300	110000	32700	18900	23800	5710	5280
2	8380	9160	19100	e18500	e16000	30200	121000	30500	18200	20100	5610	5500
3	7930	8840	19000	e16400	e18000	29200	93800	28300	17900	18300	4950	6540
4	7500	8640	18000	e16100	e25000	27800	76700	26300	18400	17200	5490	7360
5	7060	8420	16300	e15900	e24000	27500	66900	23900	20300	16900	5710	6960
6	7180	8150	15200	e16100	e23000	26700	62700	20800	19900	17000	5650	6550
7	7200	7960	13200	e15900	e20000	25700	69800	21900	18900	15800	5560	6390
8	6910	7680	12400	e16600	e24000	25600	86100	20300	17900	14700	5530	5690
9	7150	7470	12500	e16100	25600	25400	107000	18700	17300	13600	5210	5010
10	9070	8070	12100	e15300	26200	26000	125000	18600	16100	13300	4820	4680
11	15500	8320	11500	e15600	27400	27000	145000	17600	15200	12800	5400	4750
12	14900	9300	11900	e14600	33600	26700	156000	17000	14100	12000	5280	4310
13	12200	12600	10400	e12700	47100	28600	138000	16000	13100	11300	5850	4020
14	10200	14700	12300	e12500	47400	34800	122000	15400	12900	11600	5750	4200
15	9530	16500	13500	e13000	43800	45100	106000	14600	12900	10700	5980	3750
16	8780	16000	14100	e13000	42500	51300	95800	14500	12400	9670	5450	3820
17	8440	15000	37300	e13500	49800	57700	102000	13900	12600	9180	5130	3940
18	8780	13600	84000	e13200	60000	58500	112000	13400	12100	8540	4750	4380
19	11400	12900	111000	e13500	57200	61200	104000	12700	13900	8320	4470	4590
20	16400	12600	101000	e13500	48800	60900	88600	12500	16100	8130	5280	4840
21	19600	12000	80300	e13200	43200	58000	76000	12300	17200	8020	6240	5240
22	24400	11400	65500	e12500	39700	67200	67300	13400	19600	7390	6540	4820
23	23700	10400	47600	e12000	37100	86500	63900	14000	29500	6760	7570	4520
24	20400	10300	e38000	e12500	34900	112000	e63500	15200	36600	6300	7260	4580
25	17300	10100	e32000	e13200	33200	105000	e58800	14500	40600	6120	6440	10100
26	14900	10300	e28500	e11700	31700	93400	52900	15100	64100	6410	5850	11100
27	13300	10500	e21000	e12200	30800	79200	47300	20100	54100	6580	5390	29600
28	12000	11900	e21500	e11200	30400	65300	42700	22300	43400	7500	5090	30800
29	11200	13500	e19500	e11000	---	55500	38600	21800	35300	6240	4730	27800
30	10500	15100	e18500	e11000	---	63300	35500	22300	28800	5770	4700	22400
31	9780	---	e21000	e12200	---	82100	---	20600	---	5720	4500	---
TOTAL	370260	330640	954400	432700	955000	1593700	2634900	581200	688300	345750	171890	253520
MEAN	11940	11020	30790	13960	34110	51410	87830	18750	22940	11150	5545	8451
MAX	24400	16500	111000	18500	60000	112000	156000	32700	64100	23800	7570	30800
MIN	6910	7470	10400	11000	14600	25400	35500	12300	12100	5720	4470	3750
CFSM	.46	.42	1.18	.54	1.31	1.98	3.38	.72	.88	.43	.21	.33
IN.	.53	.47	1.37	.62	1.37	2.28	3.77	.83	.99	.49	.25	.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2001, BY WATER YEAR (WY)

MEAN	17640	29440	39440	40270	45100	76180	79790	48440	28190	15760	11900	12590
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

e Estimated.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR			FOR 2001 WATER YEAR			WATER YEARS 1932 - 2001	
ANNUAL TOTAL	13192600			9312260				
ANNUAL MEAN	36050			25510			37000	
HIGHEST ANNUAL MEAN							59900	
LOWEST ANNUAL MEAN							19060	
HIGHEST DAILY MEAN	217000	Mar 1		156000	Apr 12		1040000	Jun 24 1972
LOWEST DAILY MEAN	6150	Sep 11		3750	Sep 15		1380	Sep 26 1932
ANNUAL SEVEN-DAY MINIMUM	6750	Sep 6		4060	Sep 12		1720	Sep 26 1932
MAXIMUM PEAK FLOW				158000	Apr 12		a1080000	Jun 23 1972
MAXIMUM PEAK STAGE				44.12	Apr 12		b64.54	Jun 23 1972
INSTANTANEOUS LOW FLOW				3440	Sep 15		c618	Sep 26 1932
ANNUAL RUNOFF (CFSM)	1.39			.98			1.42	
ANNUAL RUNOFF (INCHES)	18.88			13.33			19.34	
10 PERCENT EXCEEDS	80700			63700			84400	
50 PERCENT EXCEEDS	19800			15100			22000	
90 PERCENT EXCEEDS	8630			5590			6000	

- 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.

