

SUSQUEHANNA RIVER BASIN

01554000 SUSQUEHANNA RIVER AT SUNBURY, PA

LOCATION.--Lat 40°51'15", long 76°48'21", Snyder County, Hydrologic Unit 02050301, on right bank in borough of Shamokin Dam, on grounds of Pennsylvania Power and Light Company generating plant, 1.0 mi downstream from Shamokin Creek, 1.5 mi downstream from Sunbury Fabridam, and 1.8 mi south of Sunbury.

DRAINAGE AREA.--18,300 mi², approximately (excluding that of Shamokin Creek).

PERIOD OF RECORD.--October 1937 to current year. June 1918 to September 1918 (gage heights only), in reports of Pennsylvania Department of Forests and Waters.

REVISED RECORDS.--WSP 891: 1936(M). WDR PA-79-2: 1978(M).

GAGE.--Water-stage recorder. Datum of gage is 408.61 ft above National Geodetic Vertical Datum of 1929. See WSP 1903 for history of changes prior to Dec. 13, 1937. Dec. 13, 1937, to Mar. 23, 1967, water-stage recorder at site 1.7 mi upstream at datum 11.05 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow slightly regulated by 14 flood-control reservoirs which have a capacity of about 809,000 acre-ft, and during low flow by Fabridam. Satellite and landline telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14000	19800	26000	28200	13400	30900	75900	23700	46600	18200	21300	12900
2	13500	18000	23900	53700	13400	28500	73000	21900	107000	16300	37300	21900
3	10500	17200	22300	101000	13600	27500	72300	24700	109000	14600	51300	37100
4	8560	15800	20400	96100	15300	25600	75200	27900	83600	12800	52100	73300
5	7600	14600	18000	73600	18400	24300	71500	26400	67200	12100	56500	90300
6	6640	14600	16600	59100	17600	24200	85600	24600	58500	11100	60900	76800
7	6080	15300	15700	49600	20800	23400	116000	22500	53900	10200	51000	55600
8	5700	15500	15400	43600	22300	22800	98600	22000	53700	9720	42400	41700
9	5560	15900	15400	40700	21900	23100	81100	21800	51700	9600	36400	31700
10	5450	16400	14100	40700	20600	26100	70300	23100	45900	9540	42300	26300
11	6590	16700	12300	41100	18100	27300	67400	22700	41400	12200	58900	21900
12	28300	16600	20300	38900	17000	27900	76300	22900	39000	13500	81900	18900
13	50100	19600	22600	34900	14700	27800	74000	24000	37400	15300	62900	16900
14	28600	20800	30800	e28500	14200	30700	65600	24500	37200	12700	52400	15800
15	18400	20300	45300	e26500	13400	34900	57500	26500	40000	11300	40900	15000
16	18100	20200	56700	e23300	12200	41100	50700	28600	39900	9850	31900	16000
17	38900	23200	53700	e21500	13300	53500	45100	27800	35700	8850	31800	19200
18	44900	36600	45200	e18200	13800	96600	40600	27700	31000	8260	27000	18500
19	35300	56300	36200	16700	19200	154000	37200	27400	28600	8320	22100	17600
20	32000	54900	32200	e15200	17900	169000	33700	25900	26300	7830	18800	21500
21	26400	46400	44400	e14500	15000	196000	29900	24400	60700	7880	16400	23400
22	21700	40500	65700	e13800	16300	214000	29200	22900	110000	11500	14700	22700
23	19500	40500	67800	e12800	23000	196000	27900	22600	117000	19600	12800	38900
24	17000	42200	56400	e12400	32100	172000	26900	23300	82000	51500	11900	65300
25	14600	44300	47700	e12400	35000	152000	24800	26600	58300	55400	10400	58500
26	15500	42500	42500	e12800	40400	132000	25300	29000	43800	51800	9800	52900
27	20300	38500	37600	e12400	38500	114000	26600	34400	35000	41000	9130	43500
28	20600	34700	33300	e12000	33600	102000	25700	35700	28700	35500	8630	38400
29	23400	31400	28900	e12400	---	88600	26100	35400	24200	41100	9490	54300
30	23500	28300	27100	e12000	---	81000	26000	33900	20800	35300	11000	60300
31	22400	---	26200	e12400	---	78100	---	30500	---	26600	9550	---
TOTAL	609680	837600	1020700	991000	565000	2444900	1636000	815300	1614100	609450	1003900	1107100
MEAN	19670	27920	32930	31970	20180	78870	54530	26300	53800	19660	32380	36900
MAX	50100	56300	67800	101000	40400	214000	116000	35700	117000	55400	81900	90300
MIN	5450	14600	12300	12000	12200	22800	24800	21800	20800	7830	8630	12900
CFM	1.07	1.53	1.80	1.75	1.10	4.31	2.98	1.44	2.94	1.07	1.77	2.02
IN.	1.24	1.70	2.07	2.01	1.15	4.97	3.33	1.66	3.28	1.24	2.04	2.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2003, BY WATER YEAR (WY)

MEAN	13110	22120	29120	27600	31930	54480	58690	35370	20850	10780	8099	8934
MAX	62760	54540	79050	77850	78120	115800	170900	69950	111600	38930	40040	55820
(WY)	1978	1978	1997	1996	1981	1945	1993	1989	1972	1972	1994	1975
MIN	1607	1673	4608	4510	7500	21370	14560	9826	4386	2390	2533	1372
(WY)	1965	1965	1999	1981	1980	1969	1946	1941	1999	1965	1939	1964

e Estimated.

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1938 - 2003	
ANNUAL TOTAL	9616550		13254730			
ANNUAL MEAN	26350		36310		26710	
HIGHEST ANNUAL MEAN					42520	
LOWEST ANNUAL MEAN					13420	
HIGHEST DAILY MEAN	164000	May 15	214000	Mar 22	609000	Jun 24 1972
LOWEST DAILY MEAN	2050	Sep 12,13	5450	Oct 10	1110	Sep 24 1964
ANNUAL SEVEN-DAY MINIMUM	2150	Sep 9	6230	Oct 5	1140	Sep 22 1964
MAXIMUM PEAK FLOW			217000	Mar 22	620000	Jun 24 1972
MAXIMUM PEAK STAGE			22.06	Mar 22	35.80	Jun 24 1972
INSTANTANEOUS LOW FLOW			5330	Oct 9,10	a964	Oct 16 1971
ANNUAL RUNOFF (CFSM)	1.44		1.98		1.46	
ANNUAL RUNOFF (INCHES)	19.55		26.94		19.83	
10 PERCENT EXCEEDS	55900		72600		60600	
50 PERCENT EXCEEDS	20800		26600		15900	
90 PERCENT EXCEEDS	3070		12400		3760	

a Result of shutoff at Fabridam.

