

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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10500	5430	16800	10700	38500	19300	70300	61300	29600	20800	4610	2980
2	8720	5270	23800	10100	52200	19100	62600	55300	29100	16800	4300	2950
3	7520	5150	25000	9140	64500	19500	54700	56100	27100	13600	4000	3010
4	6600	5020	23900	9020	63400	20100	47600	55700	24000	12000	4180	2890
5	5850	4920	21100	9150	54000	21000	41800	50500	20900	10500	3970	2670
6	5230	4840	18500	9780	43500	21500	37600	43200	23100	9490	3850	2500
7	4740	4830	16000	e9760	35900	22000	33900	37600	55400	8760	3800	2410
8	4400	4790	14300	e9870	30600	21200	30500	33400	113000	8200	3600	2350
9	9270	4730	13800	e9690	27300	19600	27500	32200	96400	7670	3370	2270
10	4710	4650	13500	e9430	24500	19300	25800	34600	69800	7240	3150	2230
11	4220	4550	12400	9250	28800	19500	24900	39200	49900	6840	3080	2180
12	3990	4480	11700	9610	44900	19000	23700	40800	39500	6710	2980	2050
13	4080	4400	11300	9910	60600	19000	22800	61500	32800	6550	2880	2050
14	3890	4300	11300	9640	58100	19000	22300	143000	29300	6550	2890	2060
15	4010	4220	12100	9540	47100	18700	26100	164000	33700	6080	3020	2200
16	4590	4130	14200	9560	38500	18100	41300	141000	48100	5630	2850	2350
17	5050	4100	17100	9190	33800	18900	57400	109000	68500	5260	2860	2560
18	5510	4030	22100	8840	31600	19800	54200	92600	71400	5020	2820	2740
19	5500	3930	38600	8620	29200	21400	45300	97700	57200	4920	2860	3380
20	5270	3860	56900	8090	26200	21300	39400	106000	46200	4990	2690	3250
21	5110	3890	50100	7870	23700	26000	34400	89800	35700	5340	2520	3000
22	4890	3830	39200	7440	22700	30700	30900	71800	29400	5060	2620	3590
23	4780	3800	31800	7460	22900	36300	28200	58200	24800	4780	2540	6520
24	4870	3780	27200	7960	23300	35800	25400	49100	21400	4870	2600	6930
25	5390	4090	24200	8780	23800	32300	23900	42600	19200	5010	2780	6440
26	6790	6590	21900	10900	22200	31000	22300	37300	18200	5040	2830	5420
27	7660	10800	19800	17400	20400	69600	21200	33000	17900	5020	3010	6420
28	6760	12900	18000	22500	19600	131000	21700	28700	17400	5100	3060	14200
29	6320	12400	16100	22900	---	124000	30300	29700	19500	5110	3240	15300
30	6010	12800	14100	23500	---	96500	53000	29900	27200	5070	3130	13500
31	5690	---	12700	28500	---	80300	---	29800	---	4970	3100	---
TOTAL	177920	166510	669500	354100	1011800	1090800	1081000	1954600	1195700	228980	99190	132400
MEAN	5739	5550	21600	11420	36140	35190	36030	63050	39860	7386	3200	4413
MAX	10500	12900	56900	28500	64500	131000	70300	164000	113000	20800	4610	15300
MIN	3890	3780	11300	7440	19600	18100	21200	28700	17400	4780	2520	2050
CFM	0.31	0.30	1.18	0.62	1.97	1.92	1.97	3.45	2.18	0.40	0.17	0.24
IN.	0.36	0.34	1.36	0.72	2.06	2.22	2.20	3.97	2.43	0.47	0.20	0.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2002, BY WATER YEAR (WY)

MEAN	13010	22030	29060	27530	32110	54110	58760	35500	20340	10640	7725	8504
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 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1938 - 2002	
ANNUAL TOTAL	6415590		8162500			
ANNUAL MEAN	17580		22360		26560	
HIGHEST ANNUAL MEAN					42520	1978
LOWEST ANNUAL MEAN					13420	1965
HIGHEST DAILY MEAN	129000	Apr 11	164000	May 15	609000	Jun 24 1972
LOWEST DAILY MEAN	2440	Sep 13,14	2050	Sep 12,13	1110	Sep 24 1964
ANNUAL SEVEN-DAY MINIMUM	2630	Sep 9	2150	Sep 9	1140	Sep 22 1964
MAXIMUM PEAK FLOW			169000	May 14	620000	Jun 24 1972
MAXIMUM PEAK STAGE			19.71	May 14	35.80	Jun 24 1972
INSTANTANEOUS LOW FLOW			1850	Sep 11	a964	Oct 16 1971
ANNUAL RUNOFF (CFSM)	0.96		1.22		1.45	
ANNUAL RUNOFF (INCHES)	13.04		16.59		19.72	
10 PERCENT EXCEEDS	45400		54400		60500	
50 PERCENT EXCEEDS	10400		13800		15600	
90 PERCENT EXCEEDS	3180		3070		3720	

a Result of shutoff at Fabridam.

