

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 sea level. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5630	7310	14700	12800	e9820	21900	100000	20800	11300	13000	3060	4740
2	5180	6950	13900	12900	e9700	20900	78900	19300	11000	11900	2990	5080
3	4800	6790	13100	11700	e12200	19300	59500	17500	12000	11700	2980	4720
4	4590	6580	12100	11500	e15800	18000	50300	14000	13400	11600	2880	4620
5	4510	6270	11200	11300	e15900	17700	46500	15500	13000	10700	2980	4310
6	4580	6010	10300	11500	e14400	17100	51100	14600	12500	9640	2920	3690
7	5150	5730	9570	11300	e13300	16200	65900	12600	11700	8860	2680	3290
8	6860	5580	e8990	11800	e12200	15500	85000	12600	11000	8160	2580	3060
9	11700	5550	e8320	11500	e12800	16000	103000	11800	10400	7820	2550	2920
10	13500	5990	e8320	10900	e14200	16500	116000	11000	9380	7430	2780	2790
11	10500	7850	e7830	11100	e17500	16200	129000	10600	8360	7420	2760	2610
12	8820	10000	e7660	10300	e30200	15400	119000	10100	7870	7670	2720	2500
13	7990	12500	e8320	9110	37200	18500	104000	9620	7600	7010	2890	2440
14	7190	13100	e8660	9030	33400	24300	91200	9250	7340	6260	2820	2440
15	6950	12600	e8490	9110	31300	30000	77600	8930	6990	5730	2830	2710
16	6640	11400	e9820	9100	36900	36500	72100	8370	6700	5420	2630	3290
17	6300	10700	e28000	9360	46400	37400	71600	7970	7730	5150	2740	3180
18	7870	10200	e78100	9260	45300	39800	72800	7620	10100	5040	3660	3110
19	12000	9750	e85800	9300	37500	42600	65300	7460	11400	5090	3600	2920
20	14700	9300	74300	9510	32100	40200	55700	7160	12900	4550	4630	2810
21	20300	8910	58200	9280	29000	38600	48600	6860	11800	4190	4850	2750
22	17800	8500	41200	8900	26700	50100	46100	7040	12500	3930	4250	2990
23	14800	8120	34300	8340	25000	79200	48500	7300	21900	3750	4050	2860
24	12400	7660	27200	8680	23100	85300	45600	7530	28700	3530	3580	3220
25	10900	7170	23200	9410	21500	76500	39800	9680	55600	3590	3250	16200
26	9870	7150	19600	8130	21200	64400	35000	11000	46700	3710	3020	26200
27	9330	8380	15900	8460	21500	51000	31200	11500	35000	3350	3010	27300
28	8810	9370	16200	7890	21900	41500	27800	13200	26500	3240	2880	23200
29	8190	11100	14600	7700	---	35500	25100	14200	20200	3300	2970	17300
30	7790	13100	13900	e7520	---	41200	22800	13300	15500	3250	3210	12800
31	7490	---	14100	e8180	---	73300	---	12300	---	3180	3440	---
TOTAL	283140	259620	705880	304870	668020	1116600	1985000	350690	477070	199170	98190	202050
MEAN	9134	8654	22770	9835	23860	36020	66170	11310	15900	6425	3167	6735
MAX	20300	13100	85800	12900	46400	85300	129000	20800	55600	13000	4850	27300
MIN	4510	5550	7660	7520	9700	15400	22800	6860	6700	3180	2550	2440
CFM	.50	.47	1.24	.54	1.30	1.97	3.62	.62	.87	.35	.17	.37
IN.	.58	.53	1.43	.62	1.36	2.27	4.04	.71	.97	.40	.20	.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2001, BY WATER YEAR (WY)

MEAN	13130	22290	29180	27790	32050	54400	59110	35070	20040	10700	7796	8568
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1938 - 2001	
ANNUAL TOTAL	9876690		6650300			
ANNUAL MEAN	26990		18220		26630	
HIGHEST ANNUAL MEAN					42520	1978
LOWEST ANNUAL MEAN					13420	1965
HIGHEST DAILY MEAN	185000	Feb 29	129000	Apr 11	609000	Jun 24 1972
LOWEST DAILY MEAN	4090	Sep 12	2440	Sep 13,14	1110	Sep 24 1964
ANNUAL SEVEN-DAY MINIMUM	4650	Sep 4	2630	Sep 9	1140	Sep 22 1964
MAXIMUM PEAK FLOW			130000	Apr 11	620000	Jun 24 1972
MAXIMUM PEAK STAGE			17.68	Apr 11	35.80	Jun 24 1972
INSTANTANEOUS LOW FLOW			2210	Sep 14	a964	Oct 16 1971
ANNUAL RUNOFF (CFSM)	1.47		1.00		1.45	
ANNUAL RUNOFF (INCHES)	20.08		13.52		19.77	
10 PERCENT EXCEEDS	61800		46200		60600	
50 PERCENT EXCEEDS	14000		10500		15600	
90 PERCENT EXCEEDS	6000		3180		3730	

a Result of shutoff at Fabridam.

