

SUSQUEHANNA RIVER BASIN

01554000 SUSQUEHANNA RIVER AT SUNBURY, PA

LOCATION.--Lat 40°50'04", long 76°49'37", 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 poor. 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43300	20100	100000	27700	e21000	23300	153000	24600	8430	5130	3770	10900
2	36700	19700	114000	27700	e20500	23100	148000	23800	8100	5530	3590	9950
3	31900	18500	119000	27300	e19500	22300	260000	23400	7740	5630	3310	13600
4	28300	17600	98800	33400	18700	20700	295000	22600	7740	6270	3080	12000
5	25100	18800	78800	53300	18300	19100	251000	21100	7710	5740	2920	8850
6	22000	20500	62800	75900	18800	18300	200000	20200	7520	6990	2820	6850
7	19900	22600	52600	92300	18300	18100	160000	18400	8410	6930	2890	5690
8	17700	23400	49600	94700	18100	22000	122000	17100	8280	6600	2810	4970
9	16600	22700	50200	88500	19000	29300	95900	16200	8060	8180	2780	4190
10	15700	21300	57000	82100	26400	38400	79300	15300	7650	7650	2750	3810
11	14600	19500	79700	71200	57600	35900	67600	14400	7460	7560	2590	3370
12	14100	19000	111000	65000	63200	32400	58100	13500	6870	9790	2490	3110
13	13600	19400	115000	66900	51700	29300	49900	12800	7850	8390	2330	2980
14	12300	18600	92900	130000	43800	27200	43600	12100	9270	7520	2640	2760
15	12500	17700	73800	242000	41600	26200	38900	12100	8240	6810	2750	2690
16	13100	16900	60000	201000	47400	24500	34600	11700	7880	5960	2860	2590
17	15100	16100	50000	139000	64400	22300	31000	11400	8260	6320	2850	2630
18	14800	15500	43300	103000	71600	21600	27400	10900	9460	6560	2820	2600
19	16600	14900	39000	77000	60400	21600	24900	10600	9330	6210	3040	2620
20	25200	14400	e34000	e63000	49800	22400	23100	10300	8330	6020	3240	2480
21	34700	14200	e29000	e51300	43700	23900	21300	9970	8120	6230	2960	2440
22	36500	13900	e26000	e40200	39700	27100	19600	9350	7950	5600	2720	2340
23	32100	13600	26400	e34000	37000	32500	19800	8870	7300	4880	2610	2380
24	30400	13800	43300	e26500	34300	40400	22600	8720	7010	4440	2480	2230
25	28000	22000	57300	e24000	31700	44900	27800	8790	6360	4390	2410	2310
26	25000	34400	56700	e24200	28800	46300	37600	8590	6010	4020	2250	2390
27	22400	42200	47900	e27000	26600	46200	37700	8520	5410	4190	2140	2490
28	20500	51000	38300	e26000	24400	52700	32800	8510	5130	4130	2320	2410
29	19000	96400	33300	e22000	---	164000	28400	8490	5000	3990	2260	2690
30	19800	112000	29800	e21000	---	236000	25800	8640	4970	3930	2340	2760
31	20100	---	28400	e20200	---	191000	---	8680	---	3860	4470	---
TOTAL	697600	790700	1897900	2077400	1016300	1403000	2436700	419630	225850	185450	87290	133080
MEAN	22500	26360	61220	67010	36300	45260	81220	13540	7528	5982	2816	4436
MAX	43300	112000	119000	242000	71600	236000	295000	24600	9460	9790	4470	13600
MIN	12300	13600	26000	20200	18100	18100	19600	8490	4970	3860	2140	2230
CFM	1.23	1.44	3.35	3.66	1.98	2.47	4.44	0.74	0.41	0.33	0.15	0.24
IN.	1.42	1.61	3.86	4.22	2.07	2.85	4.95	0.85	0.46	0.38	0.18	0.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2005, BY WATER YEAR (WY)

MEAN	13550	22630	30090	28330	31690	54500	58910	35190	20620	10940	8408	9894
MAX	62760	54540	79050	77850	78120	115800	170900	69950	111600	38930	40040	78700
(WY)	1978	1978	1997	1996	1981	1945	1993	1989	1972	1972	1994	2004
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1938 - 2005	
ANNUAL TOTAL	14676220		11370900			
ANNUAL MEAN	40100		31150		27020	
HIGHEST ANNUAL MEAN					43380	2004
LOWEST ANNUAL MEAN					13420	1965
HIGHEST DAILY MEAN	406000	Sep 19	295000	Apr 4	609000	Jun 24 1972
LOWEST DAILY MEAN	6990	Jul 5	2140	Aug 27	1110	Sep 24 1964
ANNUAL SEVEN-DAY MINIMUM	7290	Jul 2	2310	Aug 24	1140	Sep 22 1964
MAXIMUM PEAK FLOW			312000	Apr 4	620000	Jun 24 1972
MAXIMUM PEAK STAGE			26.15	Apr 4	35.80	Jun 24 1972
INSTANTANEOUS LOW FLOW			1790	Aug 27	a964	Oct 16 1971
ANNUAL RUNOFF (CFSM)	2.19		1.70		1.48	
ANNUAL RUNOFF (INCHES)	29.83		23.11		20.06	
10 PERCENT EXCEEDS	83200		72500		61000	
50 PERCENT EXCEEDS	29900		19000		16000	
90 PERCENT EXCEEDS	11500		2840		3780	

a Result of shutoff at Fabridam.

