

MONONGAHELA RIVER BASIN

03072655 MONONGAHELA RIVER NEAR MASONTOWN, PA

LOCATION.--Lat 39°49'30", long 79°55'23", Greene County, Hydrologic Unit 05020005, on left bank, 84 ft upstream from Lock and Dam at Grays Landing, 0.9 mi upstream from Masontown, 1.2 mi upstream from Whitley Creek, 5.3 mi downstream from Dunkard Creek, 7.6 mi downstream from Cheat River, at mile 81.9.

DRAINAGE AREA.--4,440 mi².

PERIOD OF RECORD.--October 1938 to current year. Published as "at Greensboro" (Station 03072500) October 1938 to September 1995. Prior to January 1939 monthly discharge only, published in WSP 1305.

REVISED RECORDS.--WSP 1113: 1939 (M), 1941 (M). WSP 1435: 1939. WSP 1907: 1936 (M), 1955 (M).

GAGE.--Water-stage recorder and concrete dam control. Datum of gage is 769.00 ft above sea level (U.S. Army Corps of Engineers bench mark). Prior to Nov. 9, 1990, at datum 1.45 ft lower.

REMARKS.--No estimated daily discharges. Records good above 5,000 ft³/s, fair below, except those below 1,000 ft³/s, which are poor. Flow regulated since 1926 by Lake Lynn 11 mi upstream, since May 1938 by Tygart Lake (station 03055500) 69 mi upstream, and since April 1989 by Stonewall Jackson Lake 120.6 mi upstream, combined capacity, 432,000 acre-ft. Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1888 reached a stage of about 36 ft, from high-water profile by U.S. Army Corps of Engineers. Flood of Mar. 18, 1936, reached a stage of 28.4 ft, discharge, 130,000 ft³/s.

DAY	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000											
	DAILY MEAN VALUES											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1270	1760	6920	2930	2760	15600	7200	5140	10900	5090	4970	2750
2	751	3270	4720	2190	1810	13700	5320	5840	6380	3450	4850	1640
3	941	8890	4170	3300	2150	10300	9180	6590	3760	3130	4710	2270
4	2170	9420	3410	3420	2430	6660	22500	5480	3270	5040	4340	4270
5	1600	6180	2190	5040	1370	6730	35000	5850	4000	4640	4110	2900
6	2740	2450	4670	5480	1130	5680	28600	5170	10300	2970	7950	3180
7	3080	4920	2900	5490	1630	5440	26000	5130	17000	3510	7880	2550
8	1120	3960	2840	5930	2780	3380	19200	5810	12000	1300	4390	3380
9	1100	3120	3410	3200	2720	2760	17100	4420	7190	1470	3410	1980
10	3500	3720	3920	4010	3370	2040	15000	2840	7880	2560	3190	1670
11	9700	2950	11400	4110	6620	2920	13300	3800	2870	17500	3960	2760
12	4980	1820	12800	4310	16900	8060	15500	3790	4510	9960	2090	2510
13	4440	1950	13100	5080	13900	8760	14200	2200	1900	5060	2150	5160
14	3080	2410	23500	8850	34900	11400	13900	3300	2890	4350	2380	5310
15	3780	1840	34600	4070	39100	7980	10200	2640	2560	3180	3490	4240
16	1680	2110	21900	4230	24800	10700	7150	1880	4020	2150	1910	3790
17	1810	1980	18500	5970	25100	13300	12300	1700	3080	3410	1370	3520
18	1980	1530	13300	4480	33900	12400	28700	2580	2530	3010	1710	2950
19	2340	1710	13300	4440	106000	8560	21500	2730	3810	3300	4600	3190
20	1350	1520	13800	4580	50500	11500	24000	5810	6170	11300	8900	2470
21	1860	1560	6560	4870	31600	12900	15900	6700	8540	9640	10100	1940
22	2120	1570	4000	4570	28500	17100	18400	5120	11600	7610	8690	1690
23	1640	1560	3590	1980	26600	13900	18600	4990	12600	5030	3360	2280
24	943	1840	2180	2700	26700	12400	16900	14200	11000	5010	4040	2340
25	1450	2030	2010	4380	18300	10900	16500	12500	6610	3220	5000	3700
26	1630	16100	2080	2300	13900	7770	11600	11400	7220	2150	3340	18400
27	1010	20400	1870	2740	15600	9800	10800	7750	5170	2130	4960	17600
28	1620	10600	1670	2370	18200	7800	8060	7240	8130	2160	4260	18000
29	2590	8600	2330	1540	15800	8390	7100	14800	7370	1770	3410	14700
30	1210	5090	2470	1530	---	9470	3720	13400	5280	1390	2920	12300
31	1190	---	2700	2450	---	8880	---	13500	---	4140	2640	---
TOTAL	70675	136860	246810	122540	569070	287180	473430	194300	200540	140630	135080	155440
MEAN	2280	4562	7962	3953	19620	9264	15780	6268	6685	4536	4357	5181
MAX	9700	20400	34600	8850	106000	17100	35000	14800	17000	17500	10100	18400
MIN	751	1520	1670	1530	1130	2040	3720	1700	1900	1300	1370	1640
(†)	-102	-267	+39	-94	+768	+783	+172	+150	-70	-107	+16	+158

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2000, BY WATER YEAR (WY)

	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950
MEAN	3397	6624	11020	11940	14280	16120	11860	9030	5800	4010	3844	2757
MAX	15260	29580	26520	24690	30880	37830	23180	29230	22100	13240	15120	12470
(WY)	1980	1986	1973	1952	1994	1963	1940	1996	1981	1958	1956	1971
MIN	439	369	1648	1840	3781	6192	3781	1836	926	676	592	482
(WY)	1954	1954	1966	1977	1941	1987	1946	1982	1965	1966	1965	1946

† Change in contents, equivalent in cubic feet per second, in Tygart Lake, Stonewall Jackson Lake and Lake Lynn. Records of contents in Lake Lynn furnished by Allegheny Energy Supply. Records of contents in Tygart Lake and Stonewall Jackson Lake furnished by U.S. Army Corps of Engineers.

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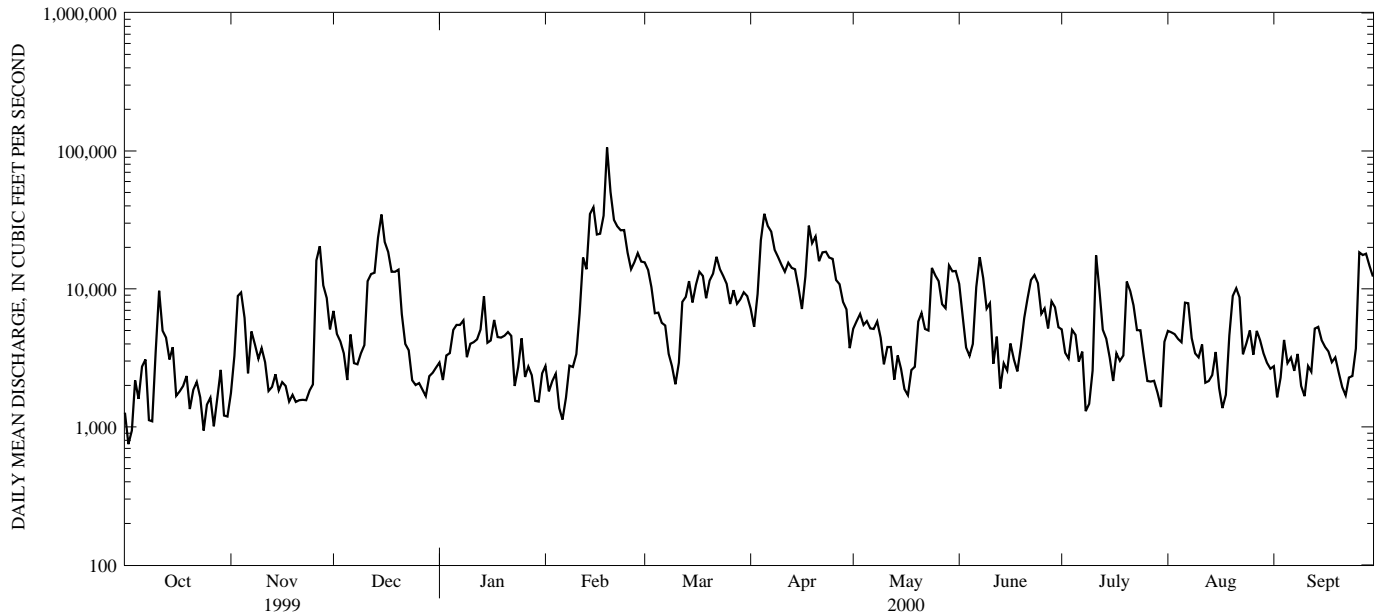
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SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1939 - 2000	
ANNUAL TOTAL	2413892		2732555			
ANNUAL MEAN	6613	† +9.5	7466	† +117	8354	
HIGHEST ANNUAL MEAN					13010	1994
LOWEST ANNUAL MEAN					4995	1966
HIGHEST DAILY MEAN	44700	Jan 15	106000	Feb 19	154000	Nov 5 1985
LOWEST DAILY MEAN	331	Sep 4	751	Oct 2	177	Sep 11 1988
ANNUAL SEVEN-DAY MINIMUM	597	Jul 13	1490	Oct 22	267	Nov 4 1953
INSTANTANEOUS PEAK FLOW			128000	Feb 19	a 220000	Nov 5 1985
INSTANTANEOUS PEAK STAGE			24.51	Feb 19	b 39.39	Nov 5 1985
10 PERCENT EXCEEDS	19400		16900		20900	
50 PERCENT EXCEEDS	2840		4380		4750	
90 PERCENT EXCEEDS	699		1710		1020	

† Change in contents, equivalent in cubic feet per second, in Tygart Lake, Stonewall Jackson Lake and Lake Lynn. Records of contents in Lake Lynn furnished by Allegheny Energy Supply. Records of contents in Tygart Lake and Stonewall Jackson Lake furnished by U.S. Army Corps of Engineers.

a From rating curve extended above 131,000 ft³/s.

b From outside floodmarks, datum then in use.



1-YEAR HYDROGRAPH
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000