

## 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 mi<sup>2</sup>.

**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 National Geodetic Vertical Datum of 1929 (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 ft<sup>3</sup>/s, fair below, except those below 1,000 ft<sup>3</sup>/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 ft<sup>3</sup>/s.

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	1790	1220	2460	1940	8640	4350	22300	27700	2260	1540	3830	894
2	2100	1320	2120	1970	6300	2230	15800	21300	5190	2050	3590	974
3	1810	2230	3300	3430	6040	3510	16300	22600	3100	2060	1960	1280
4	1950	1010	3140	1610	8670	8590	16200	21800	3690	998	936	953
5	1680	2920	5310	1510	7490	5310	16200	18400	6230	1790	2730	771
6	1460	2110	2360	1340	4220	5480	9400	12700	9470	1120	1740	974
7	1650	1540	1490	1810	4030	3780	6440	12300	14300	1130	1280	1060
8	1550	1360	1360	1840	3690	5340	7640	15800	10600	1980	1530	897
9	1830	1200	3250	1670	2600	2820	5870	19800	6650	1240	978	890
10	1560	1240	5610	2640	2390	2660	5690	19300	6700	4330	1340	943
11	1420	1220	4290	12800	7280	5820	7250	23100	3930	9620	925	937
12	1670	1020	4390	17600	6830	3430	3970	19300	2980	6860	1420	1080
13	1480	924	3790	9520	6550	4630	4780	15000	3890	5300	1430	908
14	1290	1190	2440	9170	7320	2220	3980	17000	12300	5490	1220	781
15	1910	1110	2530	11000	8100	1980	14600	16100	8360	7930	1120	1200
16	1940	1060	3110	9050	4690	4820	24500	18800	6430	6990	1670	926
17	2130	1080	6620	8090	3950	7960	19700	16100	7280	5020	764	1400
18	1700	986	11400	8210	5650	11600	20700	22200	5580	4840	824	1270
19	1390	816	10600	7150	3840	13400	19200	26600	4300	3370	1800	1130
20	1620	976	9590	3700	3670	38800	12800	21200	3500	5200	1080	1100
21	1640	942	5650	5300	4730	53200	13000	15700	3540	4140	1910	1020
22	1470	1030	6410	4710	7760	26400	38500	12500	2070	4170	1110	714
23	1460	1090	5110	5290	3840	26300	34600	11900	1330	2180	1260	963
24	2060	1130	6390	15000	2550	22000	29000	6420	1490	4290	1370	1190
25	1390	1510	5530	35400	3770	21600	26600	7090	1490	3450	1700	1190
26	1350	2500	5140	26400	6530	22600	22300	5400	1970	3520	1670	2160
27	1410	2670	5530	21900	7740	31600	16600	4330	1590	8550	2420	2820
28	1150	2960	3770	18900	7010	17400	25800	5630	2250	12600	1300	6740
29	1140	3170	3830	17300	---	12300	46500	4180	1840	8730	974	5620
30	1540	2660	4100	13100	---	9380	28700	4150	1610	7330	1050	3450
31	1670	---	2810	12600	---	9410	---	4040	---	3660	1190	---
TOTAL	50210	46194	143430	291950	155880	390920	534920	468440	145920	141478	48121	46235
MEAN	1620	1540	4627	9418	5567	12610	17830	15110	4864	4564	1552	1541
MAX	2130	3170	11400	35400	8670	53200	46500	27700	14300	12600	3830	6740
MIN	1140	816	1360	1340	2390	1980	3970	4040	1330	998	764	714
(†)	-700	-384	-210	+41	+55	+1420	+1280	-1020	-40	+49	-434	-462

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2002, BY WATER YEAR (WY)

MEAN	3362	6481	10850	11830	14170	15980	11940	9111	5809	4081	3811	2731
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.

## MONONGAHELA RIVER BASIN

## 03072655 MONONGAHELA RIVER NEAR MASONTOWN, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1939 - 2002	
ANNUAL TOTAL	2485024		2463698			
ANNUAL MEAN	6808 † -9		6750 † -414		8310	
HIGHEST ANNUAL MEAN					13010	
LOWEST ANNUAL MEAN					4995	
HIGHEST DAILY MEAN	42600	Jan 31	53200	Mar 21	154000	Nov 5 1985
LOWEST DAILY MEAN	816	Nov 19	714	Sep 22	177	Sep 11 1988
ANNUAL SEVEN-DAY MINIMUM	984	Nov 16	919	Sep 8	267	Nov 4 1953
MAXIMUM PEAK FLOW			83400	Mar 20	<b>a</b> 220000	Nov 5 1985
MAXIMUM PEAK STAGE			20.65	Mar 20	<b>b</b> 39.39	Nov 5 1985
10 PERCENT EXCEEDS	17400		18800		20800	
50 PERCENT EXCEEDS	4000		3700		4720	
90 PERCENT EXCEEDS	1320		1090		1040	

† 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 ft<sup>3</sup>/s.

**b** From outside floodmarks, datum then in use.



