



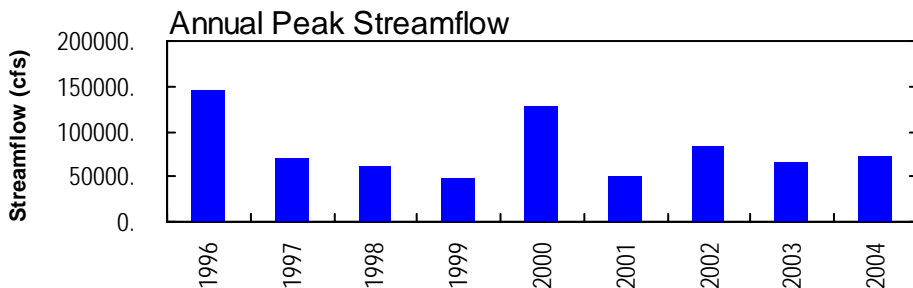
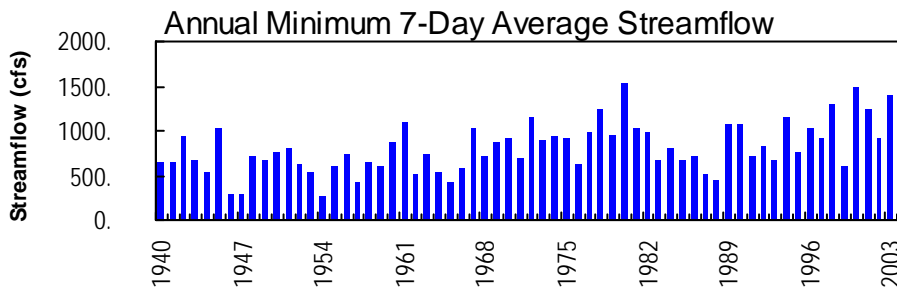
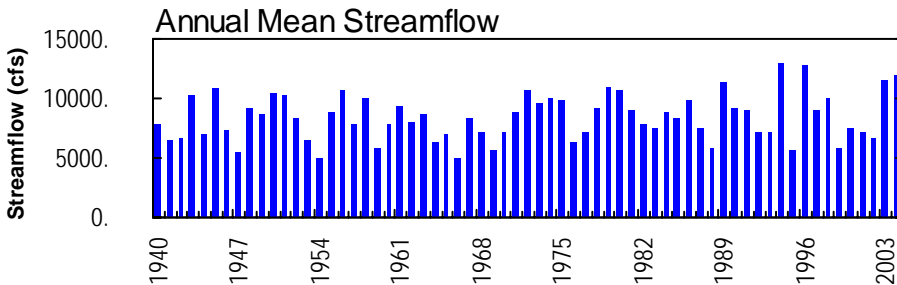
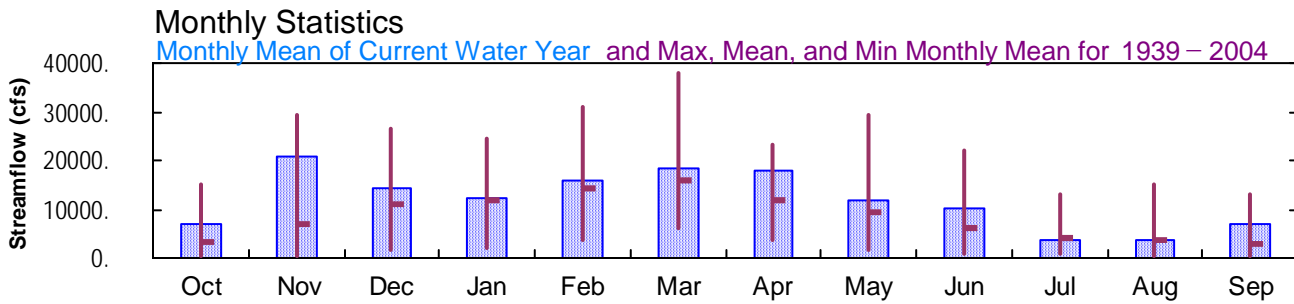
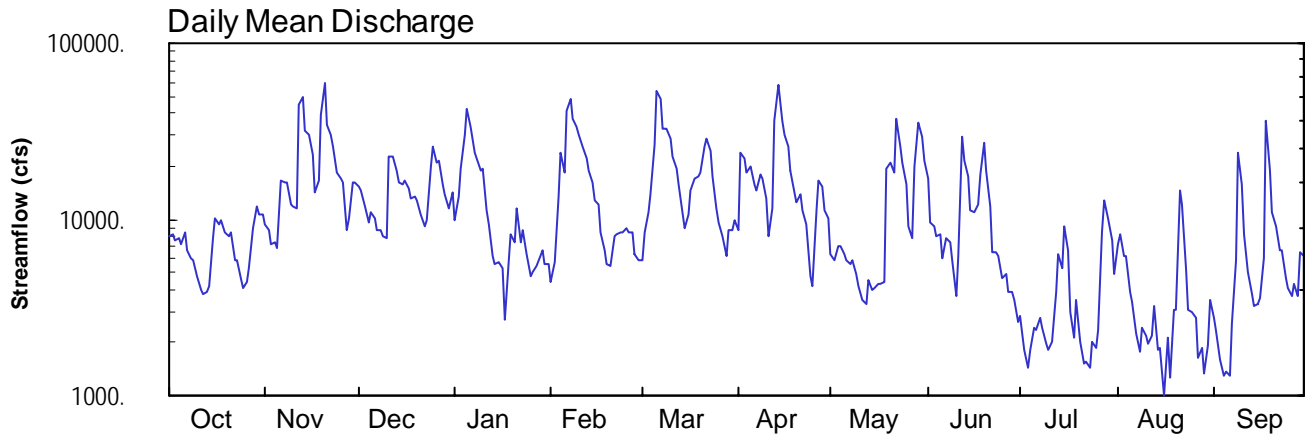
# 2004 Water Year MONONGAHELA RIVER BASIN

## 03072655 Monongahela River near Masontown, PA

Latitude: 39° 49' 30"  
Greene County

Longitude: 079° 55' 23"  
Datum: 769 feet

Hydrologic Unit Code: 05020005  
Drainage Area: 4440. mi<sup>2</sup>



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.**--Records good above 5,000 ft<sup>3</sup>/s, fair below, except those below 1,000 ft<sup>3</sup>/s, and those for estimated daily discharges, 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 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8100	9330	15500	9790	4390	5830	8690	e6400	17100	2840	7250	2730
2	8170	8720	14700	13500	5700	8510	24100	e5860	9730	1840	8280	2390
3	7570	7260	11700	19600	13700	10800	22200	7020	9160	1430	6180	1600
4	7720	7440	9590	30400	23800	13900	18500	7020	8080	1840	6140	1310
5	7130	6850	11100	42000	18700	26400	20100	6330	8170	2420	3840	1380
6	8450	16600	10300	33900	41300	53700	15900	5790	5980	2360	3410	1310
7	6670	16000	8740	24000	48700	48600	14700	5500	7880	2750	2260	2520
8	5970	16200	8770	22200	36800	32700	18100	5800	7450	2390	1750	5930
9	5860	12200	8060	18700	33200	32500	17000	4940	5930	1970	2440	24100
10	4730	11900	7730	19600	29800	28400	13200	4150	3640	1810	2190	15700
11	4000	11700	22800	11100	25800	22700	8030	3480	6210	2010	1970	8310
12	3810	44600	22900	9260	21900	19200	11600	3320	29300	3830	2160	4980
13	3870	49700	19100	6200	18900	15700	36400	4580	21800	6410	3250	3810
14	4130	31900	16200	5540	16200	10800	58500	3920	17700	5340	1810	3190
15	7720	29900	15900	5720	12900	8950	36200	4120	11300	9090	1850	3280
16	10100	23300	16700	5240	12300	10700	30400	4310	11000	6650	1010	3600
17	9280	14300	14900	2700	8380	14700	26000	4340	12200	3000	2120	6070
18	9770	16700	13200	5660	6600	17000	19100	4390	18100	2150	1270	36200
19	8480	39500	13500	8260	5610	17300	14100	19600	27200	3440	3080	18700
20	7960	59300	12700	7360	5400	18300	12600	20700	18800	2010	3030	10900
21	8490	34700	10600	11700	8100	25800	13700	18500	11800	1530	14400	9090
22	5820	30100	9190	7320	8320	28500	11100	37300	6450	1550	12200	6750
23	5830	25800	9800	8580	8470	24200	9490	25700	6570	1450	5130	6620
24	4590	18400	19700	6290	8410	17600	4820	20800	6130	2040	3040	4580
25	4040	17200	26200	4770	8870	11600	4160	15600	4620	1870	2950	4110
26	4440	16100	21100	5040	8470	9550	11400	9180	4900	2360	2730	3700
27	5260	8710	21400	5440	8390	8020	16600	7770	3880	8500	1660	4320
28	8940	10200	15700	5930	6290	6120	15300	19800	3820	12700	1890	3680
29	11900	16000	13900	6700	5830	8670	11200	35400	3480	10100	1350	6530
30	10600	16300	11600	5620	---	8620	10200	29200	2610	7560	1930	6240
31	10600	---	14300	5580	---	9880	---	21700	---	4900	3510	---
TOTAL	220000	626910	447580	373700	461230	575250	533390	372520	310990	120140	116080	213630
MEAN	7097	20900	14440	12050	15900	18560	17780	12020	10370	3875	3745	7121
MAX	11900	59300	26200	42000	48700	53700	58500	37300	29300	12700	14400	36200
MIN	3810	6850	7730	2700	4390	5830	4160	3320	2610	1430	1010	1310
(†)	-518	-276	-50	-97	+119	-74	+1440	+249	-222	+127	-287	+188

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2004, BY WATER YEAR (WY)

	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	3433	6768	10920	11790	14200	16060	12010	9257	6043	4136	3839	2951																																																						
MAX	15260	29580	26520	24690	30880	37830	23180	29230	22100	13240	15120	12870																																																						
(WY)	1980	1986	1973	1952	1994	1963	1940	1996	1981	1958	1956	2003																																																						
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.

e Estimated.

## MONONGAHELA RIVER BASIN

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

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1939 - 2004	
ANNUAL TOTAL	4689550		4371420			
ANNUAL MEAN	12850	† +12	11940	† +3.8	8416	
HIGHEST ANNUAL MEAN					13010	1994
LOWEST ANNUAL MEAN					4995	1966
HIGHEST DAILY MEAN	59300	Nov 20	59300	Nov 20	154000	Nov 5 1985
LOWEST DAILY MEAN	1440	Jul 27	1010	Aug 16	177	Sep 11 1988
ANNUAL SEVEN-DAY MINIMUM	2640	Jun 29	1830	Jul 20	267	Nov 4 1953
MAXIMUM PEAK FLOW			72600	Apr 14	<b>a</b> 220000	Nov 5 1985
MAXIMUM PEAK STAGE			19.58	Apr 14	<b>b</b> 39.39	Nov 5 1985
10 PERCENT EXCEEDS	25900		25800		21000	
50 PERCENT EXCEEDS	9770		8500		4840	
90 PERCENT EXCEEDS	3530		2430		1050	

† 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.