



2005 Water Year
MONONGAHELA RIVER BASIN
03072655 Monongahela River near Masontown, PA

Latitude: 39° 49 ' 30"

Longitude: 079° 55 ' 23"

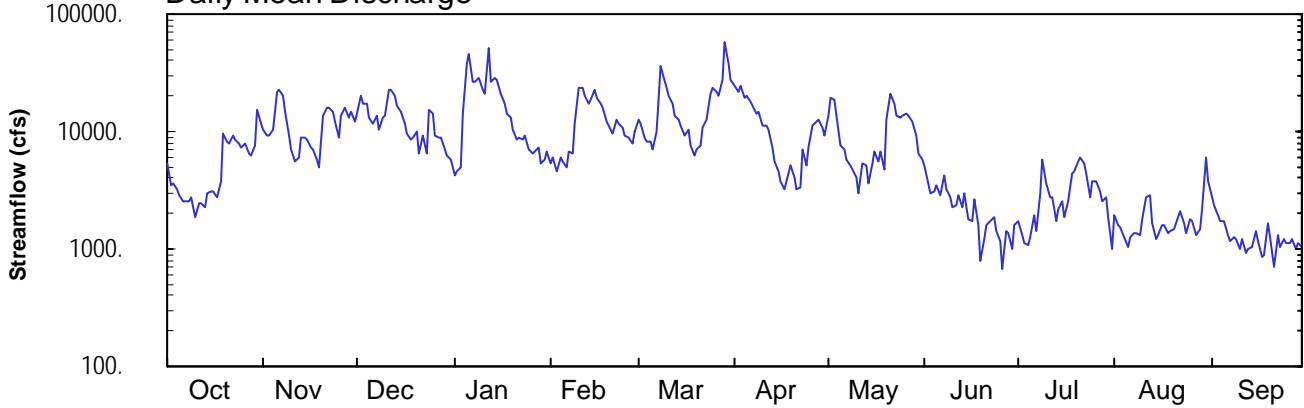
Hydrologic Unit Code: 05020005

Greene County

Datum: 769 feet

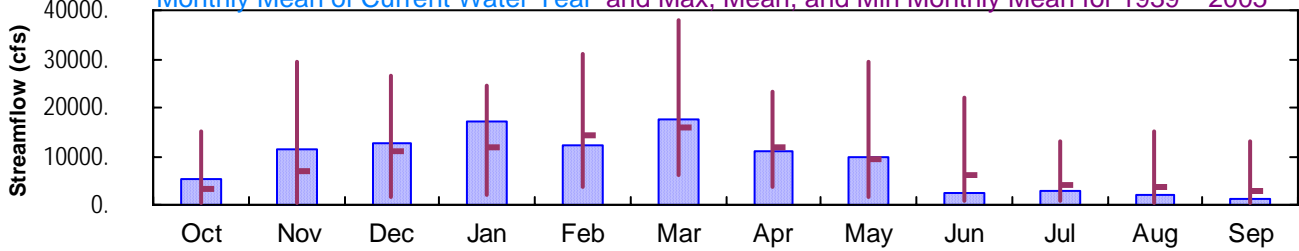
Drainage Area: 4440. mi²

Daily Mean Discharge

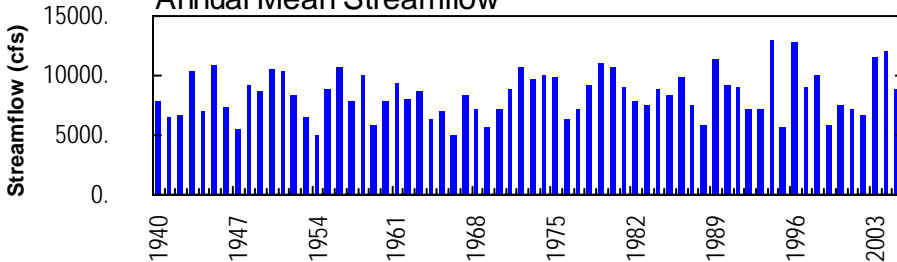


Monthly Statistics

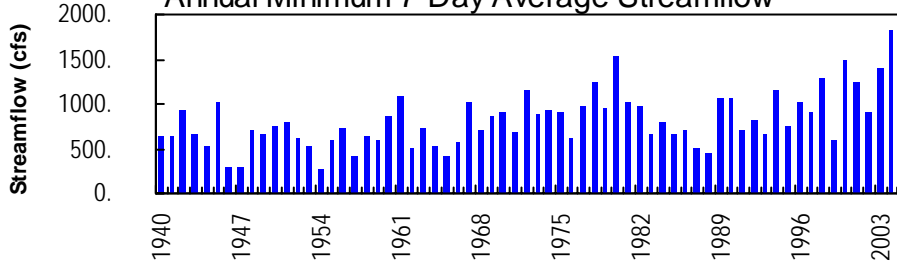
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1939 – 2005



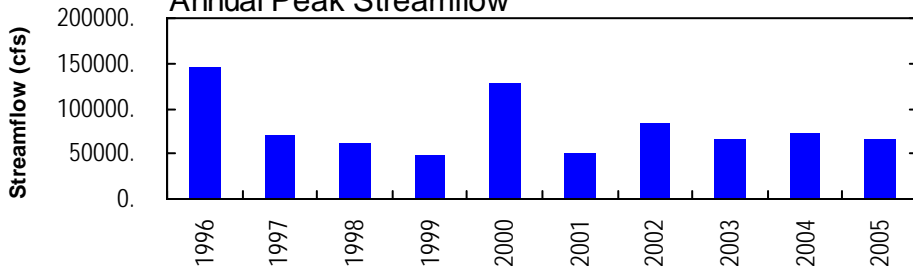
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



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 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 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.

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	5310	10300	14300	4260	5370	12500	24900	13500	5160	1730	1930	2770
2	3540	9250	20400	4510	5950	11700	21800	19700	3640	1300	1610	2330
3	3690	9210	17400	5040	4670	8900	24600	18900	3000	1120	1540	1970
4	3240	10400	17100	14000	5920	8220	19600	13800	3120	1100	1280	1720
5	2880	21900	12900	38100	5470	8130	19900	7660	3460	1260	1060	1730
6	2590	22600	11800	45300	4930	6970	18200	6930	2830	1910	1250	1300
7	2570	19800	13900	26400	6670	10100	16300	5830	4220	1440	1380	1190
8	2510	14600	10400	26800	6560	36100	14200	5070	3200	2940	1360	1290
9	2800	9270	13100	28800	11800	30900	14500	4800	2780	5890	1300	1200
10	1880	7050	13500	23100	23900	24000	11200	4040	2240	3670	1790	1000
11	2430	5490	22800	21300	23700	20400	11100	3020	2350	2770	2760	1240
12	2440	6060	22600	50800	20500	17500	10600	5460	2880	2760	2860	934
13	2300	8920	20200	26600	17300	13400	7250	5150	2230	1710	1680	981
14	3030	9020	16700	28700	18400	12700	5670	3620	3010	2170	1220	1040
15	3140	8420	14600	27900	23000	11400	4500	5440	1780	2570	1330	1420
16	3130	7380	11800	20700	19700	9240	3760	6860	1700	1860	1600	1160
17	2750	7160	9790	17000	17000	10200	3260	5500	2630	2570	1590	844
18	3780	5780	8530	14500	16000	7470	4490	6650	1600	4380	1380	900
19	9610	4910	8940	13100	12300	6180	5180	4850	779	4650	1410	1640
20	8230	13500	10100	10300	10400	7170	4060	12600	1190	5650	1470	1270
21	8030	15700	6520	8410	9760	7700	3170	20600	1580	6120	1870	713
22	9110	15900	9250	8990	12500	10600	3350	17600	1700	5360	2080	1310
23	8490	14500	6560	8590	11700	12400	6910	13400	1900	4490	1660	1050
24	7790	12200	15500	9430	11000	20600	5130	13200	1440	2720	1370	1220
25	7430	8740	14100	6970	9370	23800	7380	13700	1190	3740	1800	1130
26	7890	13700	9280	6470	8950	21700	11100	14400	677	3820	1720	1140
27	6540	16000	8870	6780	7890	20100	12100	13500	1450	3090	1310	1220
28	6270	13300	8970	7280	9900	27800	12700	12300	1350	2530	1500	995
29	7600	14600	7160	5450	---	57200	10700	9170	1020	2810	2170	1120
30	15100	12200	6300	5810	---	38000	9400	6610	1620	1880	6120	1040
31	11700	---	5900	6770	---	27700	---	5690	---	984	3700	---
TOTAL	167800	347860	389270	528160	340610	540780	327010	299550	67726	90994	57100	38867
MEAN	5413	11600	12560	17040	12160	17440	10900	9663	2258	2935	1842	1296
MAX	15100	22600	22800	50800	23900	57200	24900	20600	5160	6120	6120	2770
MIN	1880	4910	5900	4260	4670	6180	3170	3020	677	984	1060	713
(†)	-364	-277	-459	-124	+144	+1320	+254	+1.9	-120	+31	-344	-486

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005, BY WATER YEAR (WY)

MEAN	3463	6841	10940	11870	14170	16090	11990	9263	5987	4118	3809	2926
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.

MONONGAHELA RIVER BASIN

03072655 MONONGAHELA RIVER NEAR MASONTOWN, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939 - 2005	
ANNUAL TOTAL	3981860		3195727			
ANNUAL MEAN	10880	† -18	8755	† -43	8421	
HIGHEST ANNUAL MEAN					13010	1994
LOWEST ANNUAL MEAN					4995	1966
HIGHEST DAILY MEAN	58500	Apr 14	57200	Mar 29	154000	Nov 5 1985
LOWEST DAILY MEAN	1010	Aug 16	677	Jun 26	177	Sep 11 1988
ANNUAL SEVEN-DAY MINIMUM	1830	Jul 20	1040	Sep 12	267	Nov 4 1953
MAXIMUM PEAK FLOW			66600	Mar 29	a 220000	Nov 5 1985
MAXIMUM PEAK STAGE			18.96	Mar 29	b 39.39	Nov 5 1985
10 PERCENT EXCEEDS	22600		20300		20900	
50 PERCENT EXCEEDS	8270		6520		4860	
90 PERCENT EXCEEDS	2390		1300		1060	

† 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.

