

**03072655 MONONGAHELA RIVER NEAR MASONTOWN, PA**

Monongahela Basin  
Lower Monongahela Subbasin

LOCATION.--Lat 39°49'30", long 79°55'23" referenced to North American Datum of 1927, Greene County, PA, 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 river mile 81.9.

DRAINAGE AREA.--4,440 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

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. Satellite telemetry at station.

COOPERATION.--Station established and maintained by the U.S. Geological Survey. Funding for this station is provided by the U.S. Army Corps of Engineers, Pittsburgh District, the Pennsylvania Department of Environmental Protection and the U.S. Geological Survey through the Cooperative Water Program and the National Streamflow Information Program.

REMARKS.--Record good. No estimated daily discharges. Flow regulated since 1926 by Lake Lynn 11 mi upstream, since May 1938, by Tygart Lake 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jul 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(from floodmark), discharge, 130,000 ft<sup>3</sup>/s.

## 03072655 MONONGAHELA RIVER NEAR MASONTOWN, PA—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,090	17,900	1,110	8,330	40,400	8,610	12,000	3,520	2,240	9,990	2,860	12,200
2	2,220	17,800	1,010	11,100	29,100	9,500	14,700	2,650	1,540	12,000	2,010	6,010
3	2,790	15,900	1,270	10,800	25,700	8,120	13,500	3,790	2,190	9,060	1,830	6,830
4	2,060	14,200	3,360	7,310	21,800	8,160	14,800	2,530	1,380	6,290	1,770	4,910
5	2,170	13,900	6,450	4,420	17,300	6,920	11,500	1,860	1,850	5,000	2,600	3,440
6	1,660	11,400	3,730	2,920	14,500	8,560	7,810	3,070	2,260	2,640	2,740	3,540
7	1,650	10,300	3,440	4,870	12,900	12,900	5,020	2,190	1,580	2,280	1,590	2,750
8	1,890	8,490	9,770	4,960	14,700	10,300	9,050	5,660	2,490	4,000	2,410	2,040
9	1,420	8,690	13,600	4,710	10,600	10,200	9,150	11,200	2,190	3,310	10,600	3,550
10	1,170	6,580	18,900	4,870	10,400	8,890	9,140	10,600	2,720	17,000	19,000	1,700
11	1,180	3,210	26,800	5,960	15,800	10,400	10,600	11,900	2,340	15,800	12,900	2,460
12	1,770	12,700	24,900	12,300	15,900	15,000	10,100	20,100	2,900	11,000	7,210	2,260
13	1,420	22,500	21,100	17,800	17,300	17,900	12,200	14,900	8,510	13,700	21,800	2,200
14	1,270	20,300	20,600	17,400	16,600	18,300	8,570	12,300	35,100	9,950	22,200	1,740
15	1,560	16,200	9,070	17,700	16,500	17,000	9,100	9,260	20,800	6,480	17,500	2,420
16	1,740	12,100	7,100	27,900	11,200	11,700	6,820	8,940	15,600	3,500	12,700	2,450
17	1,790	4,660	8,080	38,800	6,990	9,460	5,550	8,410	11,300	4,140	7,150	1,650
18	1,710	3,860	18,700	26,500	9,120	15,500	8,060	7,170	7,160	4,560	5,350	2,090
19	2,130	6,490	13,800	25,500	6,990	21,100	9,600	6,620	6,700	3,300	5,070	1,940
20	1,810	3,830	11,700	17,700	7,270	18,000	8,270	6,240	4,600	5,110	4,650	1,590
21	1,980	3,140	23,400	16,500	6,760	16,400	9,580	4,280	4,360	5,780	3,800	2,590
22	2,260	1,590	21,200	11,300	4,960	10,200	11,600	3,330	2,990	5,190	5,330	5,210
23	2,220	2,620	15,500	9,090	5,750	8,590	8,520	5,050	1,410	6,270	11,000	4,220
24	2,640	1,670	14,200	8,350	4,300	7,370	6,060	6,310	3,180	11,200	11,500	3,060
25	2,430	1,510	9,190	7,960	5,480	7,500	3,970	4,940	1,630	11,300	9,850	2,530
26	1,870	4,920	15,200	3,670	6,850	7,490	5,300	5,180	2,230	7,260	6,550	2,530
27	1,750	2,650	26,000	2,760	12,600	8,460	3,860	4,380	3,020	5,830	6,220	1,860
28	2,010	1,750	23,000	4,770	10,600	8,510	3,070	3,850	4,680	8,890	13,000	1,300
29	3,840	1,870	14,400	12,700	---	8,260	4,980	3,330	11,500	7,670	46,200	1,590
30	25,400	2,630	13,800	19,200	---	5,970	3,020	2,660	10,300	4,440	31,200	1,560
31	21,300	---	10,200	63,500	---	6,950	---	2,770	---	2,750	22,100	---
<b>Total</b>	103,200	255,360	410,580	431,650	378,370	342,220	255,500	198,990	180,750	225,690	330,690	94,220
<b>Mean</b>	3,329	8,512	13,240	13,920	13,510	11,040	8,517	6,419	6,025	7,280	10,670	3,141
<b>Max</b>	25,400	22,500	26,800	63,500	40,400	21,100	14,800	20,100	35,100	17,000	46,200	12,200
<b>Min</b>	1,170	1,510	1,010	2,760	4,300	5,970	3,020	1,860	1,380	2,280	1,590	1,300

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2013, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	3,567	6,868	11,180	12,030	13,950	15,940	12,000	9,398	5,939	4,138	3,792	2,877
<b>Max</b>	15,260	29,580	26,520	24,690	30,880	37,830	26,540	29,230	22,100	13,240	15,120	12,870
<b>(WY)</b>	(1980)	(1986)	(1973)	(1952)	(1994)	(1963)	(2011)	(1996)	(1981)	(1958)	(1956)	(2003)
<b>Min</b>	439	369	1,648	1,840	3,781	4,887	3,716	1,836	926	676	592	482
<b>(WY)</b>	(1954)	(1954)	(1966)	(1977)	(1941)	(2009)	(2012)	(1982)	(1965)	(1966)	(1965)	(1946)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1939 - 2013	
<b>Annual total</b>	2,506,632		3,207,220			
<b>Annual mean</b>	6,849		8,787		8,441	
<b>Highest annual mean</b>					13,010	1994
<b>Lowest annual mean</b>					4,995	1966
<b>Highest daily mean</b>	67,400	Mar 1	63,500	Jan 31	154,000	Nov 5, 1985
<b>Lowest daily mean</b>	598	Jun 16	1,010	Dec 2	177	Sep 11, 1988
<b>Annual seven-day minimum</b>	840	Jul 5	1,400	Oct 9	267	Nov 4, 1953
<b>Maximum peak flow</b>			82,900	Jan 31	<sup>a</sup> 220,000 Nov 5, 1985	
<b>Maximum peak stage</b>			19.46	Jan 31	<sup>b</sup> 39.39 Nov 5, 1985	
<b>10 percent exceeds</b>	17,400		17,900		21,000	
<b>50 percent exceeds</b>	3,770		6,830		4,920	
<b>90 percent exceeds</b>	1,020		1,840		1,070	

<sup>a</sup> From rating curve extended above 131,000 ft<sup>3</sup>/s, based on non-linear extension at site 03072500 "at Greensboro".

<sup>b</sup> From outside floodmarks, datum then in use.

