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^2.

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 ft^3/s, fair below, except those below 1,000 ft^3/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^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8790	3210	6100	1490	25900	4450	10000	2940	5710	1500	17100	3500
2	9100	4180	3550	2220	23400	4060	9510	2220	6950	3530	12600	2940
3	7530	2730	4520	2830	19900	4440	9090	2340	5780	5500	7610	3110
4	4050	1370	3530	2720	19500	5110	8580	2550	5820	4080	4680	3050
5	3220	1560	3380	2320	15900	6410	9380	2460	5210	7550	2740	2770
6	2800	2290	3720	1800	11400	8330	9980	1800	8100	8980	2600	1580
7	2520	1640	4090	1080	14000	9130	19700	1900	26100	6860	3050	1660
8	1900	1720	2640	3270	9900	11600	17300	2050	23900	8690	2870	1230
9	1850	1750	2230	1640	8430	11300	17000	1680	19100	13600	1820	1100
10	2930	1880	2140	2540	9610	8350	20100	2250	14600	7920	2180	1920
11	2050	2970	2020	2060	12100	7100	31400	2960	13300	19400	1350	1540
12	1790	2250	2120	2210	12100	6510	36500	1750	7210	12400	2660	1200
13	2170	2990	1550	1300	11600	11800	25000	1040	6030	10400	11300	1310
14	1580	4040	5770	1650	9280	18400	15200	1520	5270	4750	7580	1230
15	1540	4550	16000	1630	13900	18100	11100	2250	5820	3670	4070	1230
16	1600	2950	14200	1890	23700	18600	12700	1020	5340	2310	4670	1060
17	1770	4240	16800	3650	35800	20100	10400	1960	3720	2320	2560	1210
18	2820	3050	20500	4290	26600	18300	11500	2480	5630	3450	1530	1630
19	4550	1890	16800	9150	23900	15600	11500	8500	3070	10600	1030	1660
20	4270	2200	13900	16600	23100	11900	8710	17100	2980	7610	1620	2410
21	2090	2300	12400	16800	19500	11400	5130	17600	3380	5980	1130	2670
22	2730	2890	11400	14800	17700	17000	4940	18900	2000	4140	2440	1900
23	2410	1890	8300	12900	10000	13100	7450	27800	3950	3220	1900	1170
24	2000	2000	4900	13100	9740	11100	5750	24900	7880	1350	1910	2900
25	1830	1760	2830	10500	9160	9720	4820	19700	5980	4290	1830	5840
26	2140	1550	2830	10700	7110	8610	2200	22300	6450	4230	1760	5800
27	2050	3230	4870	7460	5670	7390	3440	18600	2500	7480	3750	3310
28	1730	4680	3540	6350	4220	6220	1960	14500	2960	4580	4630	3490
29	1610	4170	3820	6310	---	5420	1870	10600	1440	16500	4210	2780
30	1670	3750	3100	22000	---	6100	2220	9140	2450	30900	4000	2080
31	2120	---	1730	42600	---	9930	---	5530	---	18800	2180	---
TOTAL	91210	81680	205280	229860	433120	325580	344430	252340	218630	246590	125360	69280
MEAN	2942	2723	6622	7415	15470	10500	11480	8140	7288	7955	4044	2309
MAX	9100	4680	20500	42600	35800	20100	36500	27800	26100	30900	17100	5840
MIN	1540	1370	1550	1080	4220	4060	1870	1020	1440	1350	1030	1060
(†)	-108	-113	-284	+316	+609	+584	+295	+172	-96	-107	+22	+155

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2001, BY WATER YEAR (WY)

MEAN	3390	6561	10950	11860	14300	16030	11850	9016	5824	4073	3847	2750
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 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL TOTAL	2656380		2623360			
ANNUAL MEAN	7258	† -30	7187	† +119	8335	
HIGHEST ANNUAL MEAN					13010	1994
LOWEST ANNUAL MEAN					4995	1966
HIGHEST DAILY MEAN	106000	Feb 19	42600	Jan 31	154000	Nov 5 1985
LOWEST DAILY MEAN	1130	Feb 6	1020	May 16	177	Sep 11 1988
ANNUAL SEVEN-DAY MINIMUM	1740	Nov 4	1250	Sep 11	267	Nov 4 1953
MAXIMUM PEAK FLOW			50400	Jan 31	**a**220000	Nov 5 1985
MAXIMUM PEAK STAGE			17.29	Jan 31	**b**39.39	Nov 5 1985
10 PERCENT EXCEEDS	16200		17600		20800	
50 PERCENT EXCEEDS	4260		4220		4730	
90 PERCENT EXCEEDS	1880		1640		1030	

† 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^3/s.

b From outside floodmarks, datum then in use.