

## MONONGAHELA RIVER BASIN

## 03085000 MONONGAHELA RIVER AT BRADDOCK, PA

**LOCATION.**--Lat 40°23'28", long 79°51'30", Allegheny County, Hydrologic Unit 05020005, near right bank on river guide wall 300 ft upstream from dam at lock 2 at Braddock, 1,700 ft downstream from Turtle Creek, and 11.2 mi upstream of confluence with Allegheny River.

**DRAINAGE AREA.**--7,337 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.

**GAGE.**--Water-stage recorder and fixed-crest concrete dam control with streamward lock chamber usable as floodway during high flow since 1951. Datum of gage is 709.66 ft above sea level (U.S. Army Corps of Engineers benchmark). Prior to Aug. 13, 1951, at site 700 ft upstream, and Aug. 13, 1951 to Nov. 8, 1990 at present site at datum 2.50 ft lower.

**REMARKS.**--No estimated daily discharges. Records good. Flow regulated by locks and hydroelectric plants, since January 1925 by Deep Creek Reservoir (station 03076000), since 1926 by Lake Lynn, since May 1938 by Tygart Lake (station 03055500), since December 1942 by Youghiogheny River Lake (station 03077000), and since April 1989 by Stonewall Jackson Lake, combined capacity, 779,000 acre-ft. Figures of daily discharge include slight diversion from Beaver Run Reservoir in the Kiskiminetas River Basin to the borough of Jeannette in the Monongahela River Basin. U.S. Army Corps of Engineers satellite telemetry at station. Other data for this station can be found on pages 189-190.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of Mar. 18, 1936 reached a stage of 38.8 ft from floodmarks, discharge, 210,000 ft<sup>3</sup>/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	11500	3370	8340	3610	48900	6480	15600	5480	9310	4700	18300	4050
2	9740	4640	7050	3200	32800	6290	13700	4810	9660	3860	16000	5420
3	9950	5000	6250	4220	27400	6080	13500	4060	15200	6490	11300	3870
4	7330	3470	6070	3980	23500	7040	12800	5030	11300	6890	6970	4400
5	5850	2380	4840	4360	21000	8960	12400	4260	9530	8020	6430	3580
6	6070	2530	5580	3550	15700	10700	14100	3820	12100	12800	3780	3510
7	5040	3440	6190	3740	16400	12000	24400	3550	29100	11300	4470	2390
8	4100	2510	4880	3990	14500	12800	26600	3990	41200	11500	4330	2640
9	2990	3030	3810	4410	12900	14100	23200	3830	28200	18300	3630	2110
10	3860	3250	3970	3550	12600	12900	27700	2650	22900	12500	3190	2250
11	4070	3710	3690	3850	22100	10900	36700	4290	20100	20400	3770	3030
12	2920	5470	3960	3990	17900	9390	56900	4520	16200	18400	3050	2520
13	3010	3410	4210	2940	16200	11300	40900	2860	10200	13500	10400	2320
14	2550	4990	5420	2980	14700	30500	27300	2890	10500	9600	11700	2610
15	2760	6370	17300	3150	16500	30500	18100	3780	8010	6890	6860	1850
16	2450	5390	17100	3650	33800	27800	23200	3530	8110	4870	5360	2270
17	2990	4360	19300	3610	50000	33500	21900	2140	8560	4120	5780	2550
18	4810	5680	29300	5530	45600	35100	21300	3590	7130	4010	3220	2460
19	8680	3720	23300	8270	33400	27300	19800	6180	6410	9490	2950	2500
20	7600	2900	17900	16200	31300	21300	16700	17600	5400	10800	2670	2660
21	5310	3380	15900	19600	26100	19200	13100	19900	5600	7790	2950	3360
22	3770	3560	13900	18400	24600	28100	10900	19900	5860	6980	2950	3810
23	4490	3820	11900	15800	16800	23700	11700	28800	7070	5410	4160	2740
24	3880	3090	7800	14100	14300	18500	13100	32300	11400	3770	3350	2360
25	3160	3140	5680	14100	12700	19000	8990	23800	9750	4420	3290	6650
26	3210	3060	4380	13000	11700	15600	6480	23900	9200	5980	2790	7960
27	3370	3570	5110	9780	9930	13400	5510	25200	6540	7050	3460	5080
28	3200	6940	5730	9090	8770	11500	6050	19200	4120	7100	6010	3620
29	2750	8010	5420	7930	---	10100	4380	13800	4470	9660	5840	4570
30	2580	6950	6400	15100	---	9450	4220	13100	3990	36400	5120	2860
31	3040	---	3720	64600	---	12500	---	9590	---	23400	4670	---
TOTAL	147030	125140	284400	294280	632100	515990	551230	322350	357120	316400	178750	102000
MEAN	4743	4171	9174	9493	22580	16640	18370	10400	11900	10210	5766	3400
MAX	11500	8010	29300	64600	50000	35100	56900	32300	41200	36400	18300	7960
MIN	2450	2380	3690	2940	8770	6080	4220	2140	3990	3770	2670	1850
CFSM	.65	.57	1.25	1.29	3.08	2.27	2.50	1.42	1.62	1.39	.79	.46
IN.	.75	.63	1.44	1.49	3.20	2.62	2.79	1.63	1.81	1.60	.91	.52

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

MEAN	5338	9292	15460	17170	20900	23950	18790	14060	9214	6324	5854	4651
MAX	23130	42130	37600	36150	43120	54500	39180	40310	30240	15620	23720	18290
(WY)	1980	1986	1973	1952	1956	1963	1940	1996	1981	1958	1956	1971
MIN	1200	971	2748	3389	6387	8042	6473	3352	2107	1765	1531	1005
(WY)	1954	1954	1954	1977	1954	1969	1971	1982	1965	1966	1957	1946

MONONGAHELA RIVER BASIN

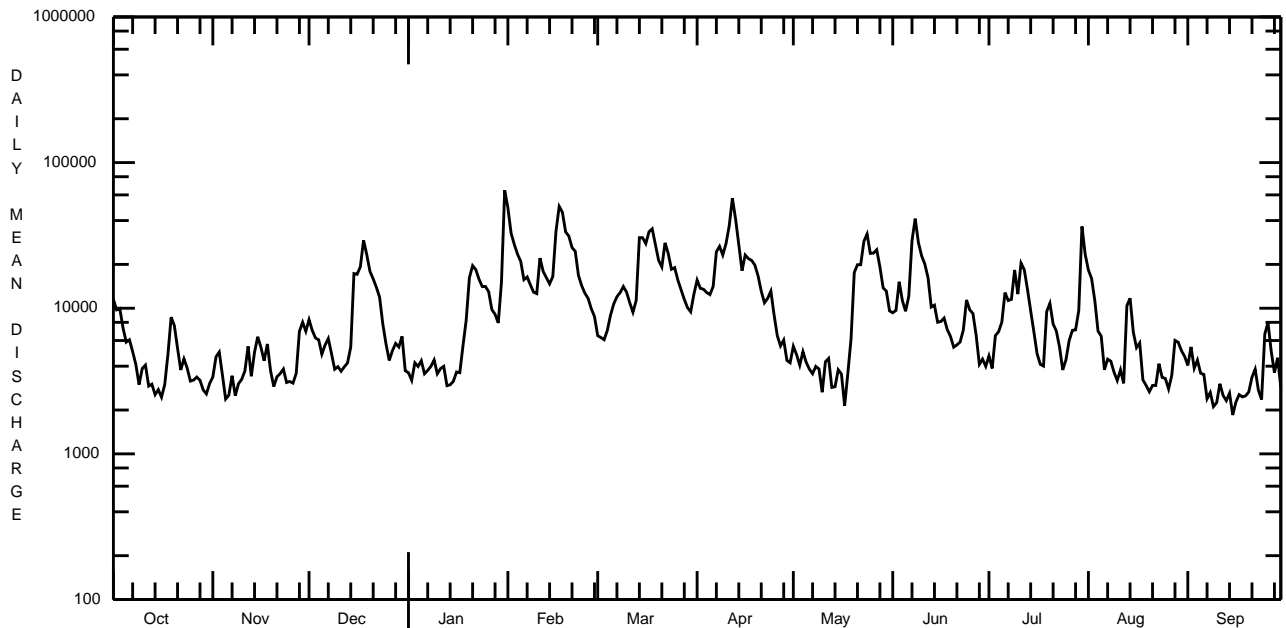
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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1939 - 2001	
ANNUAL TOTAL	3993890		3826790			
ANNUAL MEAN	10910		10480		12530	
HIGHEST ANNUAL MEAN					18440	
LOWEST ANNUAL MEAN					6946	
HIGHEST DAILY MEAN	112000	Feb 19	64600	Jan 31	188000	Jan 20 1996
LOWEST DAILY MEAN	2160	Feb 6	1850	Sep 15	703	Sep 3 1946 <sup>a</sup>
ANNUAL SEVEN-DAY MINIMUM	2940	Nov 4	2370	Sep 13	839	Nov 17 1953
MAXIMUM PEAK FLOW			74200	Jan 31	<sup>b</sup> 210000	Jan 20 1996
MAXIMUM PEAK STAGE			18.07	Jan 31	<sup>c</sup> 31.20	Jun 5 1941
ANNUAL RUNOFF (CFSM)	1.49		1.43		1.71	
ANNUAL RUNOFF (INCHES)	20.25		19.40		23.21	
10 PERCENT EXCEEDS	23000		23600		29300	
50 PERCENT EXCEEDS	6590		6480		7680	
90 PERCENT EXCEEDS	3370		2970		2250	

<sup>a</sup> Also Sept. 4, 22, 1946.

<sup>b</sup> From rating curve extended above 183,000 ft<sup>3</sup>/s.

<sup>c</sup> Maximum gage height, 31.39 ft, June 24, 1972 (backwater from Allegheny River). Datum then in use.



OCTOBER 1, 2000 TO SEPTEMBER 30, 2001