

**YOUGHIOGHENY RIVER BASIN**

**03081000 YOUGHIOGHENY RIVER BELOW CONFLUENCE, PA**

**LOCATION.**--Lat 39°49'39", long 79°22'22", Fayette County, Hydrologic Unit 05020006, on left bank 1.0 mi downstream from Casselman River, 1.5 mi northwest of Confluence, at mile 72.0.

**DRAINAGE AREA.**--1,029 mi<sup>2</sup>.

**PERIOD OF RECORD.**--June 1940 to current year. Monthly discharge only for June 1940, published in WSP 1305.

**GAGE.**--Water-stage recorder. Datum of gage is 1,302.77 ft above sea level.

**REMARKS.**--No estimated daily discharges. Records good. Flow regulated since January 1925 by Deep Creek Reservoir (station 03076000) and since December 1942 by Youghiogheny River Lake (03077000) 1.7 mi upstream. 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 Mar. 17, or 18, 1936 reached a stage of 21.6 ft, from floodmarks, discharge, 85,000 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	703	570	811	1030	612	2770	1200	1420	2730	859	2190	822
2	640	579	951	1060	606	2480	1150	1800	1990	786	1340	816
3	605	779	1050	1130	598	2000	1280	1680	1420	873	1400	814
4	603	747	1030	1220	612	1670	3180	1350	1360	1150	1670	848
5	632	699	1020	1330	609	1530	4150	1200	1350	1070	1500	1250
6	619	693	987	1230	598	1400	4030	1140	5810	957	9460	1580
7	599	667	942	1160	511	1310	3470	1070	8590	905	12100	1420
8	575	673	894	1110	397	1140	3300	1010	7510	901	4700	1270
9	606	673	865	1140	371	1030	3570	965	6460	865	3190	1220
10	768	650	946	1170	395	1020	3300	924	4560	927	2670	1240
11	1050	636	1390	1230	894	1060	3120	885	2130	1310	2480	1690
12	724	624	1280	1230	2100	1930	3200	837	1380	1200	2240	1850
13	613	612	1200	1170	1680	1660	3200	830	1360	981	2040	1870
14	633	602	2330	1180	4620	1520	2710	871	1300	932	1980	1790
15	656	531	3470	1010	5500	1500	1760	703	1250	1240	1930	1700
16	613	337	2190	1140	3420	1440	2040	557	1210	1100	1990	1750
17	619	424	1630	971	3470	1620	3530	554	983	1020	1620	1070
18	627	588	1360	884	3520	1390	5030	604	905	984	1310	1300
19	610	584	1200	980	16500	1230	3980	894	1010	870	1320	1060
20	607	586	1060	994	8550	1160	3510	3140	959	1040	1280	1520
21	599	595	998	826	6690	1930	4050	2360	907	1020	1240	1410
22	589	603	913	753	5900	2970	6300	1760	1150	944	1200	1400
23	587	600	899	824	5680	3290	6300	1640	1000	950	1100	1380
24	588	596	1000	848	5850	2820	4970	2370	856	963	1050	1240
25	597	730	1030	794	5400	2330	4140	2510	784	971	1040	1190
26	633	2480	1000	769	4110	1960	3330	2110	779	950	1010	2640
27	639	3150	1070	685	3420	1640	2570	1920	1160	916	997	2640
28	620	1600	1060	613	3940	1530	2020	2580	2080	902	1140	2350
29	598	1060	1050	610	3370	1540	1720	4570	1220	1130	1010	1530
30	582	832	1060	611	---	1480	1540	3360	999	1360	872	705
31	574	---	1070	611	---	1320	---	2850	---	2710	841	---
TOTAL	19708	24500	37756	30313	99923	53670	97650	50464	65202	32786	69910	43365
MEAN	636	817	1218	978	3446	1731	3255	1628	2173	1058	2255	1446
MAX	1050	3150	3470	1330	16500	3290	6300	4570	8590	2710	12100	2640
MIN	574	337	811	610	371	1020	1150	554	779	786	841	705
(†)	-354	+72	+140	-77	+1410	+524	+263	+76	-70	-292	-579	-925

† Change in contents, equivalent in cubic feet per second, in Deep Creek Reservoir and Youghiogheny River Lake. Records of contents in Deep Creek Reservoir furnished by Reliant Energy. Records of contents in Youghiogheny River Lake furnished by U.S. Army Corps of Engineers.

YOUGHIOGHENY RIVER BASIN

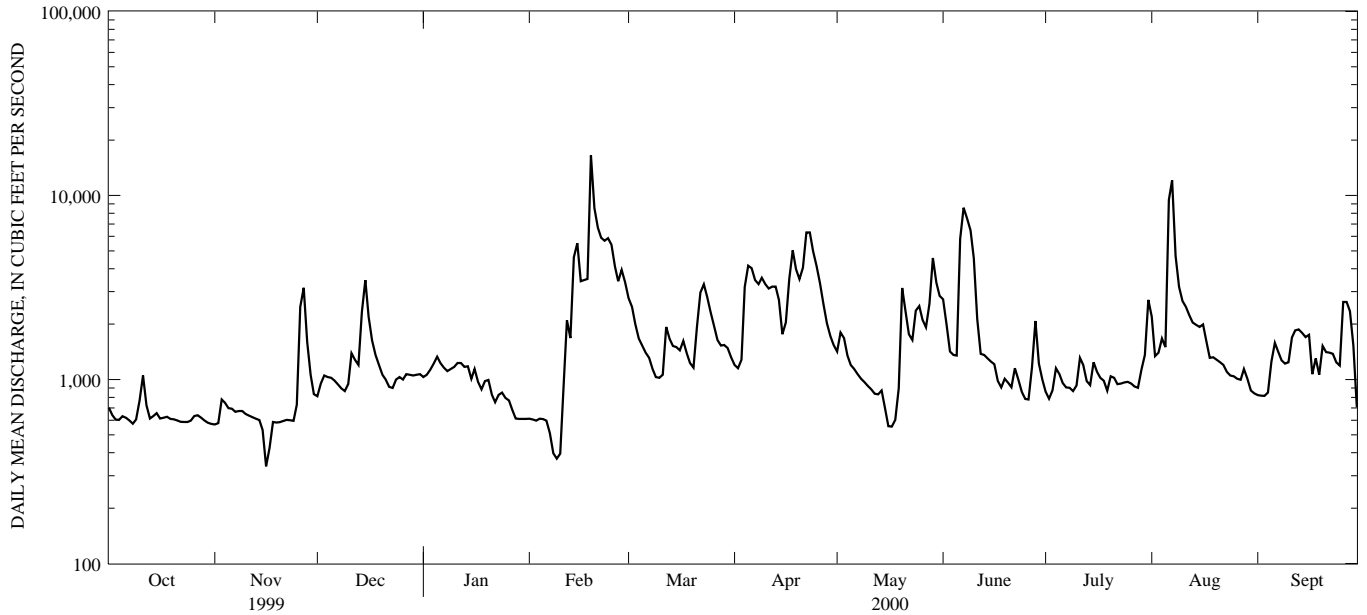
03081000 YOUGHIOGHENY RIVER BELOW CONFLUENCE, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2000, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1183	1538	2341	2490	2878	3630	3069	2332	1501	1109	1077	1090
MAX (WY)	4699	5065	6171	5441	5204	7868	6984	5052	4137	2950	3565	3882
MIN (WY)	1980	1986	1973	1974	1956	1963	1993	1996	1941	1985	1956	1971
MIN (WY)	287	433	246	496	903	778	1157	602	491	384	290	214
MIN (WY)	1948	1954	1999	1981	1954	1990	1963	1982	1965	1942	1944	1946

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1941 - 2000	
ANNUAL TOTAL	577017		625247		2016	
ANNUAL MEAN	1581	† +44	1708	† +9	2910	
HIGHEST ANNUAL MEAN					1996	
LOWEST ANNUAL MEAN					1074	
HIGHEST DAILY MEAN	11700	Apr 10	16500	Feb 19	34600	Oct 16 1954
LOWEST DAILY MEAN	241	Jan 2	337	Nov 16	121	Sep 27 1943
ANNUAL SEVEN-DAY MINIMUM	264	Jan 1	499	Feb 4	175	Sep 16 1946
INSTANTANEOUS PEAK FLOW			a26400	Aug 6	a69500	Oct 15 1954
INSTANTANEOUS PEAK STAGE			12.48	Aug 6	19.92	Oct 15 1954
10 PERCENT EXCEEDS	4170		3440		4450	
50 PERCENT EXCEEDS	722		1150		1270	
90 PERCENT EXCEEDS	497		607		609	

† Change in contents, equivalent in cubic feet per second, in Deep Creek Reservoir and Youghiogheny River Lake. Records of contents in Deep Creek Reservoir furnished by Reliant Energy. Records of contents in Youghiogheny River Lake furnished by U.S. Army Corps of Engineers.  
 a From rating curve extended above 25,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.



1-YEAR HYDROGRAPH  
 OCTOBER 1, 1999 TO SEPTEMBER 30, 2000