

**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 National Geodetic Vertical Datum of 1929.

**REMARKS.**--No estimated daily discharges. Records good. Flow regulated since January 1925 by Deep Creek Reservoir (station 03076000) 28 mi upstream 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 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	679	1290	2270	6280	1010	2000	1500	775	6920	823	1190	1390
2	667	1220	2120	10200	1010	1870	2330	738	6310	786	1260	2680
3	730	1060	2070	6140	1000	1750	1940	694	7370	870	1250	3670
4	808	938	1340	5660	1410	1520	1970	707	12800	1060	1470	2350
5	821	892	1320	5190	2000	1760	3730	877	8710	1040	1310	2020
6	773	2260	1940	4220	1420	5460	4260	2380	7880	1040	1260	1910
7	740	2430	1880	3320	1270	5440	4760	2450	8290	1200	1230	1860
8	722	1790	1940	2720	1080	3820	5900	4260	7930	2170	1320	1970
9	714	1410	1320	2560	1000	6740	5920	7670	7670	3890	1910	2080
10	712	1240	536	2670	1020	5820	5660	10900	7030	3420	1430	2020
11	761	1270	1460	2450	960	4620	5360	8710	5780	5670	1190	1960
12	1030	1310	1950	2300	924	4150	5310	5810	4990	5860	1220	1780
13	936	1970	2010	2160	827	5340	4560	9650	4630	5520	1050	1480
14	791	1560	2280	2270	848	8300	4590	8950	3330	5280	894	1610
15	768	1290	1880	2300	901	7790	4680	7830	2470	3810	1080	1900
16	896	1160	1900	2050	800	9460	4440	7600	2990	2600	1230	1910
17	1430	1900	2030	2170	669	11500	3470	7150	3200	2280	1320	1900
18	907	2330	2170	2010	838	11700	2180	6990	4730	1620	1260	1690
19	841	1860	2140	2010	899	9640	1760	6280	4410	1270	1230	8640
20	826	2080	4550	2020	908	7470	1670	4290	3080	1240	1260	7530
21	839	2010	5040	1670	895	9250	1500	2970	3280	1200	1280	6100
22	845	1970	3720	1340	1460	9240	1330	2420	3050	1170	1270	5760
23	811	1830	3090	1320	4970	8280	1180	2900	2820	1190	1260	7460
24	785	1630	2170	1300	4770	7490	1020	2840	2350	1230	1260	6760
25	808	1620	2170	1310	3250	5550	912	2240	1710	1220	1240	5060
26	1050	1760	2190	1310	2670	3440	893	2530	1360	1180	1240	3740
27	1220	2180	2000	1270	2580	3150	880	2160	1150	1150	1660	3470
28	1020	2230	1890	1240	2320	2570	824	1900	991	995	1830	5670
29	996	2150	1840	1140	---	2200	770	1860	930	980	1160	4480
30	2230	2220	1730	1030	---	2090	740	1720	868	1040	1210	3770
31	1670	---	1570	1020	---	1710	---	1820	---	1040	1380	---
TOTAL	28826	50860	66516	84650	43709	171120	86039	130071	139029	63844	40154	104620
MEAN	930	1695	2146	2731	1561	5520	2868	4196	4634	2059	1295	3487
MAX	2230	2430	5040	10200	4970	11700	5920	10900	12800	5860	1910	8640
MIN	667	892	536	1020	669	1520	740	694	868	786	894	1390
(†)	-276	+479	-33	-185	+526	+950	+97	+110	-70	-257	-321	+196

† 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 - 2003, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1168	1514	2295	2450	2833	3623	3065	2379	1557	1117	1078	1118
MAX	4699	5065	6171	5441	5204	7868	6984	5052	4634	2950	3565	3882
(WY)	1980	1986	1973	1974	1956	1963	1993	1996	2003	1985	1956	1971
MIN	287	433	246	496	903	778	1157	602	491	384	290	214
(WY)	1948	1954	1999	1981	1954	1990	1963	1982	1965	1942	1944	1946

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1941 - 2003	
ANNUAL TOTAL	614717		1009438		2013	
ANNUAL MEAN	1684 † +78		2766 † +97		1074	
HIGHEST ANNUAL MEAN					2910	
LOWEST ANNUAL MEAN					1074	
HIGHEST DAILY MEAN	8620	Mar 21	12800	Jun 4	34600	Oct 16 1954
LOWEST DAILY MEAN	471	Sep 5	536	Dec 10	121	Sep 27 1943
ANNUAL SEVEN-DAY MINIMUM	551	Mar 9	745	Oct 1	175	Sep 16 1946
MAXIMUM PEAK FLOW			17100	Jun 4	<sup>a</sup> 69500	Oct 15 1954
MAXIMUM PEAK STAGE			9.90	Jun 4	19.92	Oct 15 1954
10 PERCENT EXCEEDS	3880		6290		4470	
50 PERCENT EXCEEDS	1010		1900		1260	
90 PERCENT EXCEEDS	639		869		612	

† 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.

