

**YOUGHIOGHENY RIVER BASIN**

**03083500 YOUGHIOGHENY RIVER AT SUTERSVILLE, PA**

**LOCATION.**--Lat 40°14'24", long 79°48'24", Allegheny County, Hydrologic Unit 05020006, on left bank 500 ft upstream from highway bridge at Sutersville, 2.1 mi downstream from Sewickley Creek, at mile 15.2.

**DRAINAGE AREA.**--1,715 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1920 to current year. Monthly discharge for 1926, 1930, part of 1931, 1937, 1938, and part of 1939, published in WSP 1305.

**REVISED RECORDS.**--WSP 743: Drainage area. WSP 1305: 1924, 1926 (M), 1931 (M). WSP 1435: 1935-36.

**GAGE.**--Water-stage recorder. Datum of gage is 733.36 ft above sea level. Prior to June 1, 1939, nonrecording gage at site 500 ft downstream at same datum.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Flow regulated since January 1925 by Deep Creek Reservoir (station 03076000), since December 1942 by Youghiogheny River Lake (station 03077000) 58 mi upstream, and by several smaller reservoirs above station. Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

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	1020	899	2610	e1400	9110	2110	3390	1570	2050	1220	1480	1320
2	993	867	2190	e1400	5630	1850	3430	1460	4150	1460	1410	1310
3	1620	852	1850	e1400	4180	1730	3330	1370	5330	1530	1390	1180
4	1800	834	1500	e1400	3310	1710	3270	1300	4130	1370	1490	1120
5	1870	814	1570	e1500	2950	2200	3130	1280	3260	1570	2250	1090
6	2130	801	1690	e1550	2720	2130	3350	1330	3090	2690	1880	1050
7	1750	808	1520	e1550	2550	1900	5110	1220	5730	2330	1550	1040
8	1300	818	1490	e1600	2380	1800	5260	1050	7540	1790	1370	1040
9	1080	817	1450	e1600	2570	2000	5420	1030	6380	2310	1380	1020
10	1090	978	1340	e1600	6570	1980	6560	1020	6240	2160	1440	1020
11	979	1720	1250	e1550	8750	1850	7370	992	6140	2760	1640	1020
12	820	1920	1500	e1500	5150	1810	8780	1080	5710	2500	1610	1000
13	777	1570	1900	e1400	3890	3580	7200	1270	3930	2190	1560	993
14	763	1410	2210	e1400	3400	11500	6400	1190	2810	2000	2050	1040
15	878	1310	2910	e1400	6600	e8500	5680	884	2510	1570	1720	1020
16	724	1230	2600	e1300	11000	e7400	7830	873	2100	1330	1590	1010
17	774	1150	4250	e1300	11900	10500	9650	882	2130	1300	1570	989
18	2680	1100	7300	e1350	8300	10900	8230	877	1810	1320	1470	983
19	3940	1050	4700	e1400	6620	8150	7040	1080	1510	1330	1470	1050
20	2470	1020	3680	e1600	5580	6460	5720	1460	1320	1270	1460	1140
21	1770	1000	2910	e1700	4960	5650	5160	1410	1710	1210	1480	1290
22	1470	964	e2200	e1600	4370	7220	4730	1320	1830	1140	1520	1220
23	1290	909	e1800	e1600	3880	6680	3670	1440	1970	1100	1550	1090
24	1140	887	e1700	e1550	3620	5690	3090	1780	3390	1140	1580	1110
25	1130	935	e1600	e1450	3390	5760	2780	1580	2420	1180	1290	1570
26	e1000	1110	e1500	e1400	3370	4950	2590	1820	1800	1170	1100	1450
27	e890	1870	e1400	e1350	3470	4040	2240	2530	1500	1210	1080	1160
28	908	3230	e1400	e1300	2570	3310	2000	2230	1330	1210	1190	1060
29	1000	2570	e1400	e1250	---	2870	1790	2190	1220	1210	1320	991
30	964	2760	e1400	e2000	---	2930	1650	2370	1290	1200	1040	868
31	937	---	e1400	12400	---	3750	---	2220	---	1340	1150	---
TOTAL	41957	38203	68220	56800	142790	142910	145850	44108	96330	49110	46080	33244
MEAN	1353	1273	2201	1832	5100	4610	4862	1423	3211	1584	1486	1108
MAX	3940	3230	7300	12400	11900	11500	9650	2530	7540	2760	2250	1570
MIN	724	801	1250	1250	2380	1710	1650	873	1220	1100	1040	868
(†)	-443	-162	+390	+21	+1240	+708	+113	+78	-80	-62	-772	-701

† 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.  
e Estimated.

YOUGHIOGHENY RIVER BASIN

03083500 YOUGHIOGHENY RIVER AT SUTERSVILLE, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2001, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1513	2114	3579	3963	4605	5910	4944	3622	2272	1566	1463	1361
MAX (WY)	7006	5818	9373	8488	9630	13720	10230	8012	7318	4853	5707	6382
MIN (WY)	1955	1922	1973	1974	1939	1936	1940	1996	1941	1985	1956	1971
MIN	107	209	412	611	716	1539	1637	1012	585	614	309	185
(WY)	1924	1923	1999	1925	1934	1990	1921	1982	1925	1942	1922	1922

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1921 - 2001	
ANNUAL TOTAL	1002282		905602			
ANNUAL MEAN	2738 † +102		2481 † +20		3072	
HIGHEST ANNUAL MEAN					4537 1996	
LOWEST ANNUAL MEAN					1496 1925	
HIGHEST DAILY MEAN	27100 Feb 19		12400 Jan 31		79000 Mar 18 1936	
LOWEST DAILY MEAN	e600 Feb 10		724 Oct 16		57 Sep 30 1922	
ANNUAL SEVEN-DAY MINIMUM	a664 Feb 4		816 Oct 11		64 Sep 24 1922	
MAXIMUM PEAK FLOW			13700 Jan 31		b108000 Oct 16 1954	
MAXIMUM PEAK STAGE			10.44 Jan 31		c32.50 Oct 16 1954	
INSTANTANEOUS LOW FLOW					d57 Sep 29 1922	
10 PERCENT EXCEEDS	5990		5700		6810	
50 PERCENT EXCEEDS	1760		1570		1910	
90 PERCENT EXCEEDS	900		997		688	

† 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 Computed using estimated daily discharges.
- b From rating curve extended above 100,000 ft<sup>3</sup>/s.
- c From floodmark.
- d Minimum observed.
- e Estimated.

