

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 mi².

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.

DAY	DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000											
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	979	656	1610	e1280	e720	4480	2240	2270	3660	1470	3380	1030
2	865	681	1390	e1280	e700	3930	2070	2930	3420	1240	2080	1020
3	752	3520	1440	e1300	e700	3510	2160	3210	2520	1180	1650	1320
4	745	2440	1530	e1500	e700	2820	6120	2610	2030	1700	2450	1200
5	782	1630	1500	1890	e700	2530	9140	2210	1950	1760	2160	1110
6	759	1320	1510	1880	e700	2310	7460	2030	3490	1480	9070	1540
7	721	1180	1470	1700	e700	2110	6070	1850	11700	1290	26200	1820
8	685	1070	1380	1610	e640	1980	5470	1710	9860	1180	11600	1600
9	659	999	1290	1550	e610	1760	6320	1590	7920	1140	6610	1460
10	911	987	1300	1600	e600	1650	5590	1490	6880	1130	4630	1410
11	1420	939	1900	1680	e1100	1670	5010	1400	3860	1760	3900	1880
12	1410	896	2210	1690	e2800	2340	6360	1330	2510	1910	3380	2220
13	995	853	2030	1640	4030	3050	5550	1260	2230	1510	2900	2430
14	938	823	3610	1580	12600	2440	5440	1300	2260	1280	2630	2160
15	966	802	8320	1460	13800	2360	3980	1260	2060	1680	2450	2040
16	897	779	5370	1400	8140	2300	3220	1070	2000	2110	2360	2040
17	796	643	3620	1510	6300	3560	4100	893	1740	1710	2360	2080
18	761	465	2730	1270	5970	3400	7080	859	1610	1490	1880	1280
19	764	674	2260	1260	27100	2770	6180	1430	2060	1360	1770	1530
20	736	734	2050	1340	20200	2460	5240	3420	1740	1300	1690	1350
21	724	778	1840	1210	10500	4720	5070	4240	1580	1410	1580	1800
22	709	782	1670	e900	8440	7340	7210	2900	2110	1340	1510	1680
23	693	772	1500	e1000	7480	6040	9950	2600	1930	1220	1470	1620
24	708	763	1410	e960	7270	5290	8000	4670	1520	1190	1370	1760
25	706	780	e1400	e900	7290	4430	6480	4260	1290	1190	1310	1620
26	714	3050	e1380	e820	6060	3710	5440	3560	1270	1180	1270	2250
27	731	7450	e1350	e740	4830	3130	4330	2900	1270	1130	1210	3710
28	756	5080	e1320	e680	5300	2860	3500	3400	3300	1110	1340	3140
29	734	2860	e1300	e680	5220	2870	2870	6680	2650	1160	1400	2640
30	700	2010	e1300	e700	---	2820	2510	5330	1810	1370	1220	1680
31	669	---	e1300	e720	---	2540	---	4560	---	1880	1070	---
TOTAL	25385	46416	64290	39730	171200	99180	160160	81222	94230	43860	109900	54420
MEAN	819	1547	2074	1282	5903	3199	5339	2620	3141	1415	3545	1814
MAX	1420	7450	8320	1890	27100	7340	9950	6680	11700	2110	26200	3710
MIN	659	465	1290	680	600	1650	2070	859	1270	1110	1070	1020
(†)	-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.
e Estimated.

YOUGHIOGHENY RIVER BASIN

03083500 YOUGHIOGHENY RIVER AT SUTERSVILLE, PA--Continued

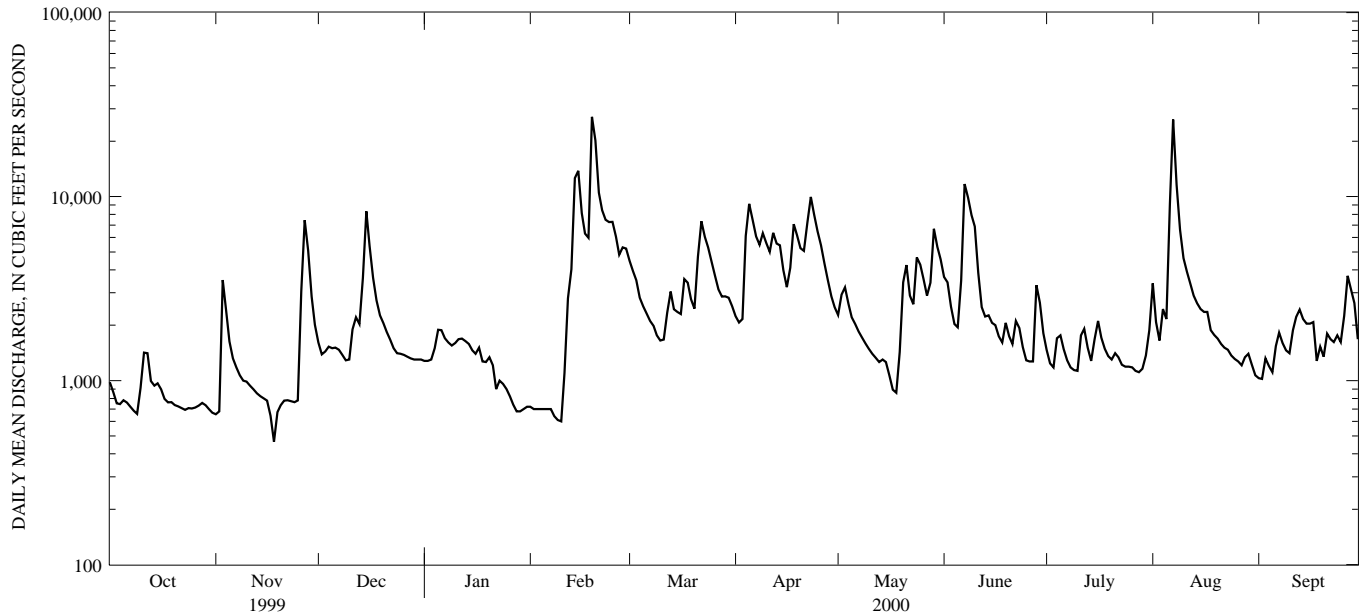
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2000, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1515	2126	3598	3991	4598	5927	4945	3652	2259	1565	1462	1365
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 (WY)	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1921 - 2000	
ANNUAL TOTAL	898824		989993			
ANNUAL MEAN	2463	† +44	2705	† +9	3080	
HIGHEST ANNUAL MEAN					4537	1996
LOWEST ANNUAL MEAN					1496	1925
HIGHEST DAILY MEAN	23800	Apr 10	27100	Feb 19	79000	Mar 18 1936
LOWEST DAILY MEAN	e220	Jan 2	465	Nov 18	57	Sep 30 1922
ANNUAL SEVEN-DAY MINIMUM	a356	Jan 1	664	Feb 4	64	Sep 24 1922
INSTANTANEOUS PEAK FLOW			37000	Feb 19	b108000	Oct 16 1954
INSTANTANEOUS PEAK STAGE			18.92	Aug 7	c32.50	Oct 16 1954
INSTANTANEOUS LOW FLOW					d57	Sep 29 1922
10 PERCENT EXCEEDS	6420		6050		6830	
50 PERCENT EXCEEDS	1110		1680		1920	
90 PERCENT EXCEEDS	586		750		685	

† 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 ft³/s.
- c From floodmark.
- d Minimum observed.
- e Estimated.



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