

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 1925 by Deep Creek Reservoir (station 03076000), since 1943 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 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	727	778	339	e300	2880	2980	5140	3300	1060	819	944	629
2	693	777	332	e220	2760	3570	5150	2840	821	749	852	516
3	736	762	321	e270	3110	3490	5020	2300	1000	873	763	505
4	1080	751	323	e360	3010	6950	4580	1750	946	688	732	495
5	982	751	321	e480	2660	6200	4870	1510	893	602	691	613
6	811	749	321	e430	2420	6810	4730	1430	1110	539	661	645
7	743	755	319	e430	2750	7730	4350	1340	1020	520	662	671
8	949	759	335	e440	6620	5750	3360	1470	720	568	806	742
9	1270	770	406	e990	7570	4780	4090	1770	665	555	872	805
10	1240	788	478	e1600	5330	3930	23800	1530	623	616	877	666
11	1120	657	437	e1500	4230	3360	13200	1160	592	631	859	613
12	997	603	400	e1250	3640	3050	13000	1060	586	624	815	629
13	850	581	378	e1400	3410	2860	11700	1040	891	593	811	614
14	803	601	354	e4500	3240	2700	10900	1100	880	583	1050	622
15	764	590	339	9370	3330	2810	9290	1110	623	563	851	634
16	746	583	323	5490	3190	2870	8970	1360	585	544	815	617
17	754	575	316	4710	3170	2960	8800	1180	597	531	794	718
18	970	583	337	5940	3120	6060	6990	900	675	527	767	701
19	948	631	339	9070	2380	11600	5960	1730	726	523	752	699
20	771	644	328	6280	2090	7770	7190	1170	950	532	745	690
21	744	597	345	4480	1970	7590	8600	983	874	536	756	729
22	775	557	865	5560	1830	11700	7480	945	597	535	810	706
23	821	555	966	6950	1600	10500	7230	1970	586	525	760	688
24	841	548	737	16300	1520	8100	10300	2710	566	540	751	653
25	1030	421	512	15300	1580	6890	8510	3150	557	560	685	669
26	975	369	e380	8170	1560	5890	6790	2410	551	527	675	656
27	800	362	e370	5530	1370	5430	5910	1750	543	527	660	648
28	770	365	e400	4370	1540	5440	5160	1420	592	1010	688	671
29	763	348	e400	4930	---	5530	4620	1260	624	2200	748	712
30	733	331	e370	4160	---	5770	3640	1270	781	1620	733	1500
31	777	---	e370	3330	---	5530	---	1180	---	1230	650	---
TOTAL	26983	18141	12761	134110	83880	176600	229330	50098	22234	21990	24035	20456
MEAN	870	605	412	4326	2996	5697	7644	1616	741	709	775	682
MAX	1270	788	966	16300	7570	11700	23800	3300	1110	2200	1050	1500
MIN	693	331	316	220	1370	2700	3360	900	543	520	650	495
(†)	-533	-361	+2.1	+1370	+286	+813	+26	-137	-335	-339	-522	-494

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1999, BY WATER YEAR (WY)

MEAN	1525	2134	3618	4028	4580	5964	4939	3666	2248	1567	1435	1359
MAX	7006	5818	9373	8488	9630	13720	10230	8012	7318	4853	5707	6382
(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

† 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 Sithe Northeast. Records of contents in Youghiogheny River Lake furnished by U.S. Army Corps of Engineers.
e Estimated.

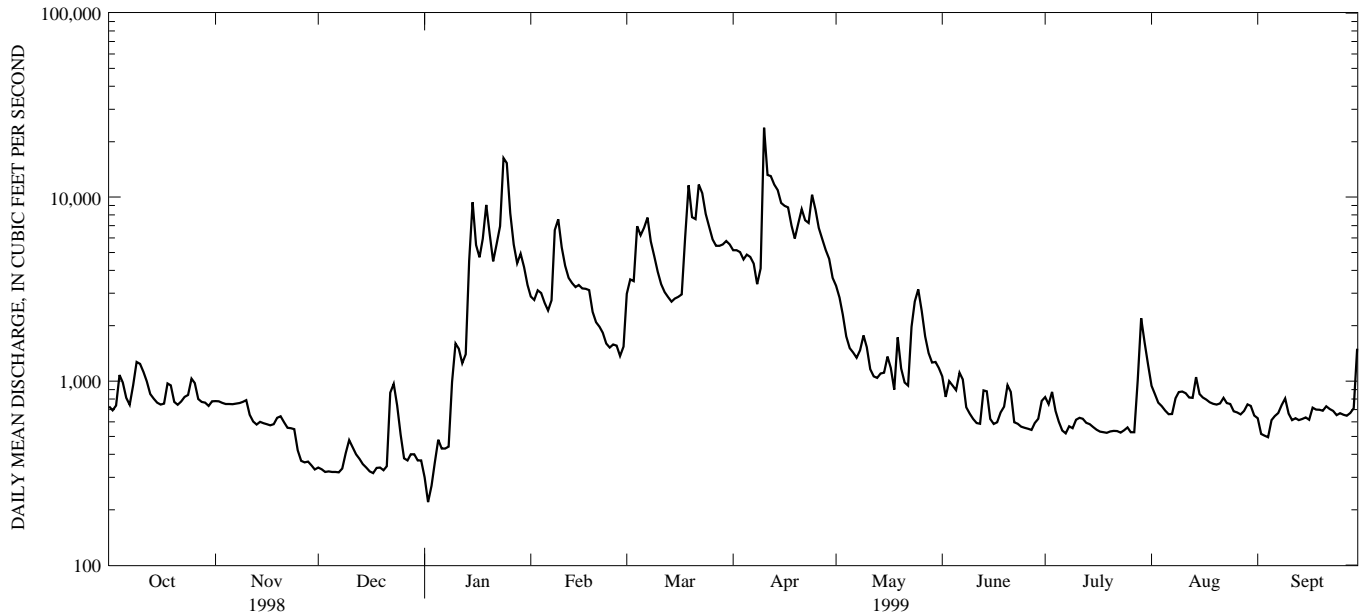
YOUGHIOGHENY RIVER BASIN

03083500 YOUGHIOGHENY RIVER AT SUTERSVILLE, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1921 - 1999	
ANNUAL TOTAL	1062781		820618			
ANNUAL MEAN	2912	† -103	2248	† -18	3085	
HIGHEST ANNUAL MEAN					4537	1996
LOWEST ANNUAL MEAN					1496	1925
HIGHEST DAILY MEAN	16700	Apr 10	23800	Apr 10	79000	Mar 18 1936
LOWEST DAILY MEAN	316	Dec 17	e220	Jan 2	57	Sep 30 1922
ANNUAL SEVEN-DAY MINIMUM	325	Dec 2	325	Dec 2	64	Sep 24 1922
INSTANTANEOUS PEAK FLOW			29100	Apr 10	a108000	Oct 16 1954
INSTANTANEOUS PEAK STAGE			15.17	Apr 10	b32.50	Oct 16 1954
INSTANTANEOUS LOW FLOW					c57	Sep 29 1922
10 PERCENT EXCEEDS	6840		6120		6840	
50 PERCENT EXCEEDS	1440		821		1930	
90 PERCENT EXCEEDS	556		430		682	

† 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 Sithe Northeast. Records of contents in Youghiogheny River Lake furnished by U.S. Army Corps of Engineers.

- a From rating curve extended above 100,000 ft³/s.
- b From floodmark.
- c Minimum observed.
- e Estimated.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999