

YOUGHIOGHENY RIVER BASIN

**03083500 YOUGHIOGHENY RIVER AT SUTERSVILLE, PA
(Pennsylvania Water-Quality Network Station)**

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.

WATER-DISCHARGE RECORDS

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 National Geodetic Vertical Datum of 1929. 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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	878	798	1110	969	2630	1160	4990	8620	2680	1120	834	859
2	1000	801	929	1030	2260	1090	5320	6380	e2340	1050	792	847
3	949	954	788	986	1900	1340	4630	10300	e1980	1150	835	846
4	922	1160	860	1000	1690	1930	4190	8670	e1780	1010	914	823
5	923	1060	1100	1030	1540	1850	3780	7630	1650	1060	914	683
6	982	947	896	1010	1550	1580	3300	6970	2540	972	1110	493
7	979	895	613	979	1670	1550	2780	6090	4010	886	1190	707
8	961	863	637	883	1650	1430	2560	7050	3380	822	1100	697
9	987	868	854	985	1530	1290	2260	e11900	2480	847	982	687
10	1020	867	1180	1040	1430	1200	2230	e10200	1890	1030	926	683
11	1000	847	1100	2220	2670	1110	2190	8560	1530	964	898	682
12	1030	811	850	4710	3800	1010	1990	e7800	1420	880	977	674
13	1050	796	750	3030	2810	955	1830	e8480	1600	891	1210	637
14	1050	787	747	2220	2310	948	1800	10800	3780	965	1040	694
15	1150	768	901	1770	1910	918	2810	9550	3780	961	1010	741
16	1080	709	1120	1630	1740	1660	3850	e8160	3760	900	993	824
17	973	602	1190	1430	1640	2140	3430	e8000	3260	851	953	758
18	905	598	2910	1290	1720	4250	3860	11900	2710	860	985	733
19	845	595	4650	1170	1620	6170	3680	13200	1960	1120	1000	782
20	814	641	2990	1060	1540	9550	3020	10700	1560	998	1170	815
21	779	682	2160	982	1930	18100	3010	9460	1370	891	1070	716
22	680	664	1690	994	2260	9980	4350	7400	1240	841	1060	724
23	749	640	1390	955	1910	6180	5650	5580	1140	836	1100	714
24	901	625	1560	1150	1640	4610	6450	4370	1070	1100	2010	700
25	850	749	1660	6680	1480	3720	6000	3740	1050	859	1970	708
26	801	1510	1500	4870	1400	6210	5600	3470	1050	875	1530	724
27	779	1390	1330	3240	1430	12900	3760	3040	1260	1070	1110	1480
28	794	1350	1250	2550	1340	8740	e7500	2740	2790	1350	880	1830
29	791	1280	1220	2140	---	6500	e11100	2760	1830	1200	828	1560
30	788	1120	1180	2020	---	5260	e8910	3270	1300	1000	822	937
31	804	---	973	2490	---	4430	---	2670	---	884	831	---
TOTAL	28214	26377	42088	58513	53000	129761	126830	229460	64190	30243	33044	24758
MEAN	910	879	1358	1888	1893	4186	4228	7402	2140	976	1066	825
MAX	1150	1510	4650	6680	3800	18100	11100	13200	4010	1350	2010	1830
MIN	680	595	613	883	1340	918	1800	2670	1050	822	792	493
(†)	-630	-346	+188	+686	+476	+1096	+417	-296	-190	-272	-633	-489

† 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 - 2002, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1505	2098	3550	3936	4570	5887	4934	3671	2270	1558	1458	1354
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

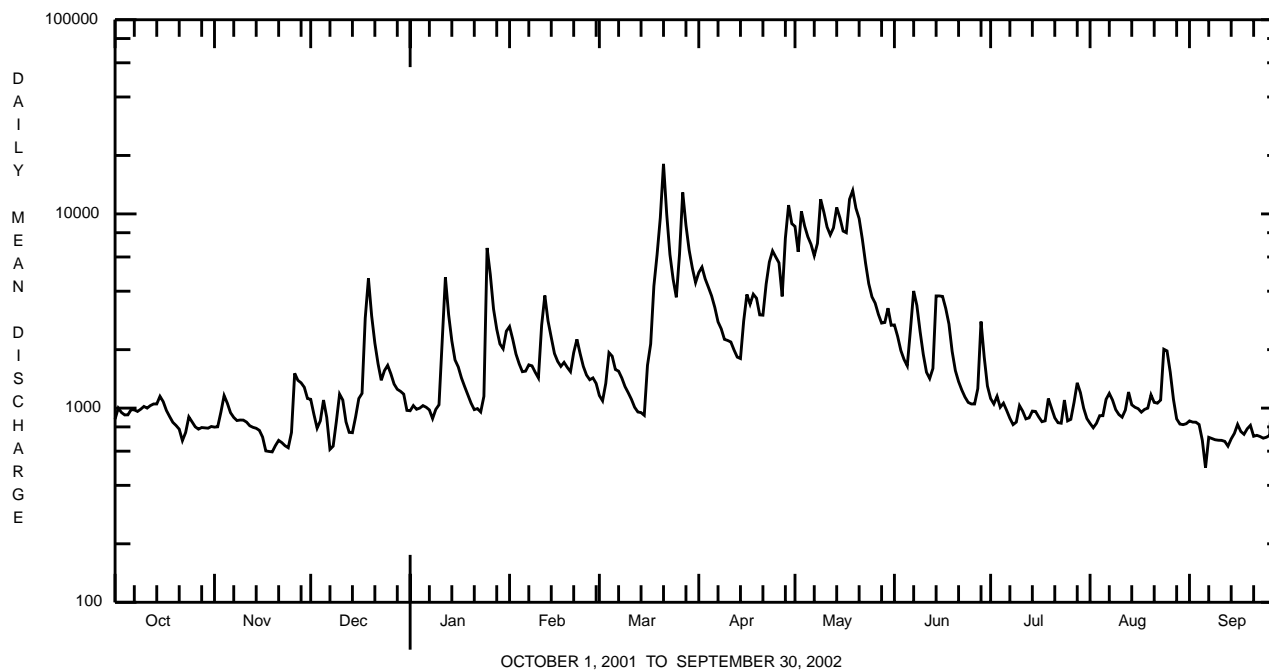
SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1921 - 2002	
ANNUAL TOTAL	853901		846478			
ANNUAL MEAN	2339	† +68	2319	† -2	3061	
HIGHEST ANNUAL MEAN					4537	1996
LOWEST ANNUAL MEAN					1496	1925
HIGHEST DAILY MEAN	12400	Jan 31	18100	Mar 21	79000	Mar 18 1936
LOWEST DAILY MEAN	595	Nov 19	493	Sep 6	57	Sep 30 1922
ANNUAL SEVEN-DAY MINIMUM	632	Nov 17	632	Nov 17	64	Sep 24 1922
MAXIMUM PEAK FLOW			21700	Mar 21	a108000	Oct 16 1954
MAXIMUM PEAK STAGE			14.13	Mar 21	b32.50	Oct 16 1954
INSTANTANEOUS LOW FLOW					c57	Sep 29 1922
10 PERCENT EXCEEDS	5680		6040		6800	
50 PERCENT EXCEEDS	1460		1180		1910	
90 PERCENT EXCEEDS	858		775		698	

† 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 100,000 ft³/s.

b From floodmark.

c Minimum observed.



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03083500 YOUGHIOGHENY RIVER AT SUTERSVILLE, PA--Continued
(Pennsylvania Water-Quality Network Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--Other data for the Water-Quality Network can be found on pages 210-233.

COOPERATION.--Samples were collected as part of the Pennsylvania Department of Environmental Protection Water Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	ANC WATER UNFLTRD FET LAB (MG/L AS CACO3) (00417)	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	
APR 2002	11...	1200	9813	2200	40	8.1	7.4	257	11.8	80	21.7	6.2	28	<.2
JUN	06...	1200	9813	2050	40	7.9	7.2	295	21.2	110	30.6	8.7	34	<.2
AUG	07...	1130	9813	1290	40	8.0	7.5	270	23.0	88	24.5	6.4	30	<.2

Date	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COPPER, TOTAL RECOV-ERABLE (µG/L AS CU) (01042)	CYANIDE AMEN-ABLE TO CHLOR-INATION UNFLTRD (MG/L) (00722)	IRON, TOTAL RECOV-ERABLE (µG/L AS FE) (01045)	
APR 2002	11...	68.6	162	56	<.020	.92	<.040	1.2	.01	.020	1.6	<10	<1.00	420
JUN	06...	86.1	222	14	<.020	.74	<.040	.94	.02	.030	2.5	<10	<1.00	850
AUG	07...	71.2	194	6	<.020	.78	<.040	.94	.02	.020	2.4	<10	<1.00	810

Date	LEAD, TOTAL RECOV-ERABLE (µG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (µG/L AS MN) (01055)	NICKEL, TOTAL RECOV-ERABLE (µG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)	PHENOLS TOTAL (µG/L) (32730)	
APR 2002	11...	<1.0	90	<50	<10	<5
JUN	06...	1.0	90	<50	<10	<5
AUG	07...	<1.0	120	<50	<10	<5