

**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 sea level.

**REMARKS.**--No estimated daily discharges. Records good. Flow regulated since 1925 by Deep Creek Reservoir (station 03076000) and since 1943 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 1998 TO SEPTEMBER 1999  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	732	686	222	253	1770	2140	4140	2300	484	506	584	471
2	783	674	219	241	2000	2070	4240	1750	487	471	595	466
3	905	673	219	252	2130	2160	3910	1190	547	496	595	496
4	888	665	219	263	1790	3650	3660	948	650	463	567	581
5	757	667	219	269	1570	3020	3950	901	855	433	551	588
6	726	673	219	297	1610	2800	3630	849	734	475	621	595
7	712	681	218	270	1970	2990	3060	948	501	511	682	677
8	732	687	229	274	4880	2610	1910	1230	480	510	695	669
9	1050	570	271	509	3790	2290	5800	1100	463	505	730	586
10	1010	462	277	918	2990	1930	11700	753	449	525	728	566
11	901	461	261	739	2530	1760	7520	697	549	536	709	583
12	778	471	249	722	2280	1680	9170	653	791	536	695	569
13	752	502	237	1100	2180	1560	8600	636	674	530	689	564
14	730	489	231	3040	2630	1560	8110	801	432	513	684	558
15	714	484	224	2380	2490	1510	7320	1100	445	504	679	561
16	774	470	216	1850	2490	1440	7490	897	504	497	675	569
17	973	521	229	1740	2460	1550	6310	613	558	493	669	612
18	895	544	233	2590	1930	5210	4850	593	669	497	673	623
19	689	497	228	3380	1510	6400	4390	602	838	511	670	624
20	682	451	235	2090	1430	4930	5390	602	708	508	665	616
21	698	445	239	1970	1360	6140	5300	645	498	496	665	612
22	711	457	290	2390	1190	9060	4870	793	502	493	682	615
23	778	376	324	4910	1070	6800	5110	973	495	491	638	592
24	936	264	303	11400	1130	5570	6820	1010	489	493	582	603
25	861	219	245	6710	1120	4830	5160	1160	480	501	577	596
26	701	226	246	3780	946	4160	4430	895	474	500	584	601
27	695	232	259	2790	781	4180	3960	753	471	493	620	606
28	686	233	274	3290	1090	4270	3650	745	498	511	685	609
29	648	227	271	3430	---	4580	3030	832	570	842	655	614
30	684	225	264	2640	---	4700	2610	795	636	796	601	654
31	690	---	242	2180	---	4290	---	686	---	656	545	---
TOTAL	24271	14232	7612	68667	55117	111840	160090	28450	16931	16292	19990	17676
MEAN	783	474	246	2215	1968	3608	5336	918	564	526	645	589
MAX	1050	687	324	11400	4880	9060	11700	2300	855	842	730	677
MIN	648	219	216	241	781	1440	1910	593	432	433	545	466
(†)	-533	-361	+2.1	+1370	+286	+813	+26	-137	-335	-339	-522	-494

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1999, BY WATER YEAR (WY)**

	1941	1950	2360	2516	2868	3662	3066	2344	1489	1110	1057	1084
MEAN	1193	1550	2360	2516	2868	3662	3066	2344	1489	1110	1057	1084
MAX	4699	5065	6171	5441	5204	7868	6984	5052	4137	2950	3565	3882
(WY)	1980	1986	1973	1974	1956	1963	1993	1996	1941	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

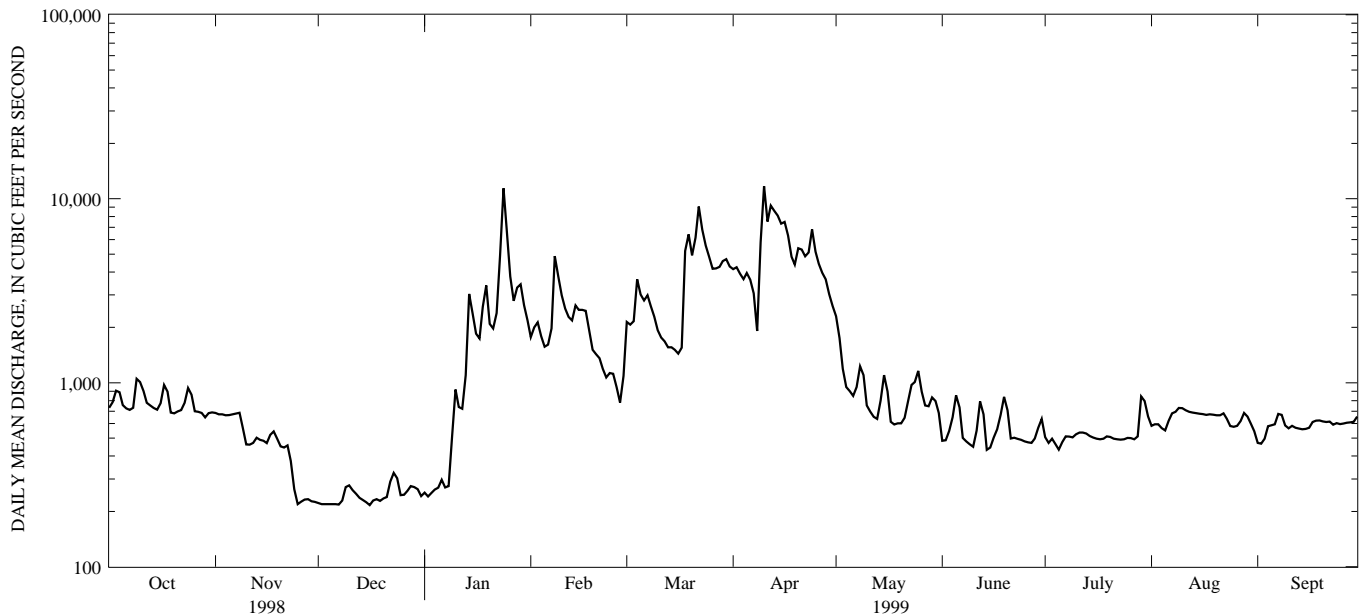
† Change in contents, equivalent in cubic feet per second, in Deep Creek Reservoir and Youghiogheny River Lake. Records of contents in Deep Creek Reservoir furnished by Sithe Northeast. Records of contents in Youghiogheny River Lake furnished by U.S. Army Corps of Engineers.

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03081000 YOUGHIOGHENY RIVER BELOW CONFLUENCE, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1941 - 1999	
ANNUAL TOTAL	753369		541168			
ANNUAL MEAN	2064 † -103		1483 † -18		2021	
HIGHEST ANNUAL MEAN					2910	
LOWEST ANNUAL MEAN					1074	
HIGHEST DAILY MEAN	11500	Apr 10	11700	Apr 10	34600	Oct 16 1954
LOWEST DAILY MEAN	216	Dec 16	216	Dec 16	121	Sep 27 1943
ANNUAL SEVEN-DAY MINIMUM	219	Dec 1	219	Dec 1	175	Sep 16 1946
INSTANTANEOUS PEAK FLOW			16900	Apr 10	<sup>a</sup> 69500	Oct 15 1954
INSTANTANEOUS PEAK STAGE			9.83	Apr 10	19.92	Oct 15 1954
ANNUAL RUNOFF (CFSM)	2.01		1.44		1.96	
ANNUAL RUNOFF (INCHES)	27.24		19.56		26.69	
10 PERCENT EXCEEDS	5080		4170		4470	
50 PERCENT EXCEEDS	1130		682		1280	
90 PERCENT EXCEEDS	298		270		609	

† 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 25,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.



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