

YOUGHIOGHENY RIVER BASIN

03082500 YOUGHIOGHENY RIVER AT CONNELLSVILLE, PA

LOCATION.--Lat 40°01'03", long 79°35'38", Fayette County, Hydrologic Unit 05020006, on left bank at downstream side of Crawford Avenue bridge at Conneltsville, 1.2 mi upstream from Mounts Creek, at mile 44.0.

DRAINAGE AREA.--1,326 mi².

PERIOD OF RECORD.--July 1908 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 743: Drainage area. WSP 1305: 1912 (M), 1914 (M), 1916-17 (M), 1918, 1922-25. WSP 1435: 1919-20. WSP 1725: 1916, 1932 (monthly, yearly summaries).

GAGE.--Water-stage recorder. Datum of gage is 860.13 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 15, 1928, nonrecording gage, and Aug. 15, 1928 to July 7, 1958, water-stage recorder at same site and datum. July 8, 1958 to Sept. 8, 1959, nonrecording gage at site 0.4 mi downstream at different 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) 29.4 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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	697	1580	2630	6780	1270	2820	2000	1020	9350	945	1290	1590
2	690	1410	2480	14800	1240	2600	2890	984	7880	894	1420	3260
3	689	1270	2400	8410	1230	2530	2720	918	8950	854	1470	4000
4	875	1100	2040	7090	2290	2270	2530	1060	18700	1110	2000	3430
5	881	1020	1130	6310	3310	2590	3850	1340	11100	1150	1540	2380
6	835	1950	2130	5290	2450	6420	5350	2580	9230	1140	1400	2230
7	765	3160	2110	4260	2060	7650	5490	3440	9590	1190	1350	2080
8	747	2320	2150	3430	1710	5430	7480	5520	9780	2000	1670	2000
9	723	1830	1980	e2980	1480	8510	6930	11300	8600	4260	2070	2230
10	728	1540	885	e2990	1480	7950	6580	16300	7720	3850	2450	2130
11	795	1570	1030	e2850	1400	5960	6030	13800	6510	5280	1350	2060
12	994	1670	2230	e2710	1280	5120	6020	7630	5380	6100	1570	1980
13	1160	2090	2350	e2560	1160	5990	5220	11000	5180	5580	1400	1520
14	857	2000	3710	e2620	1190	10200	4880	10700	4150	5280	1130	1500
15	841	1630	3030	e2560	1260	9570	5070	8840	2890	4430	1060	1980
16	911	1410	2700	e2420	1020	11300	4790	8200	3070	2800	1330	2070
17	1640	2010	2670	e2450	803	14000	4230	7620	3490	2580	1400	1970
18	1210	3230	2670	e2360	1100	14200	2860	7300	4400	2010	1340	1920
19	948	2550	2680	e2280	1250	11900	2210	6720	4970	1380	1300	7540
20	964	2880	5230	e2290	1300	8140	2100	5180	3580	1320	1270	9310
21	907	2550	7220	e2080	1280	10100	2000	3630	3410	1270	1320	6320
22	939	2520	4800	1580	2290	10100	1810	3060	3370	1260	1300	5910
23	896	2350	4250	1620	8750	8980	1550	3390	3180	1290	1300	7620
24	847	2080	3020	1570	7580	7910	1380	3980	2740	1390	1280	7160
25	832	2040	2810	1630	4990	6490	1200	3280	2120	1440	1260	5850
26	975	2000	2800	1610	3780	4080	1160	3210	1560	1290	1260	4250
27	1420	2420	2540	1540	3550	3650	1150	2970	1410	1230	1730	3790
28	1180	2570	2360	1480	3150	3180	1070	2540	1160	1160	2170	5880
29	1070	2460	2280	1540	---	2680	1030	2460	1080	993	1570	5170
30	2150	2510	2170	1330	---	2630	965	2210	998	1090	1270	4220
31	2140	---	2210	1290	---	2370	---	2340	---	1110	1530	---
TOTAL	31306	61720	84695	104710	65653	207320	102545	164522	165548	67676	45800	113350
MEAN	1010	2057	2732	3378	2345	6688	3418	5307	5518	2183	1477	3778
MAX	2150	3230	7220	14800	8750	14200	7480	16300	18700	6100	2450	9310
MIN	689	1020	885	1290	803	2270	965	918	998	854	1060	1500
(†)	-276	+479	-33	-185	+526	+950	+97	+110	-70	-257	-321	+196

† 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

03082500 YOUGHIOGHENY RIVER AT CONNELLSVILLE, PA--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2003, BY WATER YEAR (WY) (SINCE REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1408	1908	2925	3261	3800	4883	4143	3125	1933	1333	1274	1223
MAX (WY)	5938	7518	8050	9737	7916	11370	8463	7142	5805	4143	4772	5400
MIN (WY)	1955	1986	1973	1937	1939	1936	1993	1996	1941	1985	1956	1971
MIN (WY)	139	84.5	295	465	630	1189	1321	662	504	279	155	146
(WY)	1931	1931	1999	1925	1934	1990	1925	1926	1925	1930	1930	1925

SUMMARY STATISTICS FOR 2002 CALENDAR YEAR FOR 2003 WATER YEAR WATER YEARS 1925 - 2003

ANNUAL TOTAL	786366	1214845	2595
ANNUAL MEAN	2154 † +78	3328 † +97	1223
HIGHEST ANNUAL MEAN			3944
LOWEST ANNUAL MEAN			1223
HIGHEST DAILY MEAN	13900 Mar 21	18700 Jun 4	58100 Mar 18 1936
LOWEST DAILY MEAN	362 Sep 5	776 Oct 3	39 Nov 16 1930
ANNUAL SEVEN-DAY MINIMUM	554 Sep 5	776 Oct 1	62 Nov 14 1930
MAXIMUM PEAK FLOW		23600 Jun 4	a103000 Oct 16 1954
MAXIMUM PEAK STAGE		11.16 Jun 4	21.96 Oct 16 1954
INSTANTANEOUS LOW FLOW		689 Oct 3	
10 PERCENT EXCEEDS	5080	7620	5800
50 PERCENT EXCEEDS	1390	2280	1610
90 PERCENT EXCEEDS	711	1030	600

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1909 - 1924, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1126	1653	2574	4697	4098	5490	3830	2696	2379	1110	764	1100
MAX (WY)	5117	4937	5795	8679	9354	9777	6572	6675	5224	5102	1904	5158
MIN (WY)	1912	1914	1922	1913	1918	1912	1914	1924	1910	1912	1912	1911
MIN (WY)	36.4	68.4	342	503	1589	1913	1335	1125	938	221	99.5	132
(WY)	1909	1909	1909	1918	1924	1915	1921	1911	1922	1918	1910	1922

SUMMARY STATISTICS WATER YEARS 1909 - 1924

ANNUAL MEAN	2620
HIGHEST ANNUAL MEAN	3976
LOWEST ANNUAL MEAN	1879
HIGHEST DAILY MEAN	59200 Mar 21 1912
LOWEST DAILY MEAN	11 Oct 18 1910
ANNUAL SEVEN-DAY MINIMUM	14 Oct 15 1910
MAXIMUM PEAK FLOW	b65900 Mar 29 1924
MAXIMUM PEAK STAGE	c20.5 Mar 29 1924
INSTANTANEOUS LOW FLOW	11 Sep 23 1908d
ANNUAL RUNOFF (CFSM)	1.98
ANNUAL RUNOFF (INCHES)	26.84
10 PERCENT EXCEEDS	6200
50 PERCENT EXCEEDS	1370
90 PERCENT EXCEEDS	195

† 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 55,000 ft³/s.

b Estimated from hydrograph.

c From graph based on gage readings.

d Also Sept. 26, 27, 1908 and Oct. 18, 1910.

