

## MONONGAHELA RIVER BASIN

## 03076500 YOUGHIOGHENY RIVER AT FRIENDSVILLE, MD

**LOCATION.**--Lat 39°39'13", long 79°24'31", Garrett County, Hydrologic Unit 05020006, on left bank 0.7 mi upstream from bridge on State Highway 42 at Friendsville, and 1.5 mi upstream from Bear Creek.

**DRAINAGE AREA.**--295 mi<sup>2</sup>.

**PERIOD OF RECORD.**--August 1898 to December 1904 and October 1940 to current year. Annual maximum, water years 1905, 1923-31, 1940, published in WSP 1675. October, November 1940 monthly discharge only, published in WSP 1305. September 1922 to September 1926 (gage heights only) in reports of Pennsylvania Department of Forests and Waters.

**REVISED RECORDS.**--WSP 1385: Drainage area at former site, 1898-1905, 1941(M), 1942, 1944-45, 1948-49, 1951(M).

**GAGE.**--Water-stage recorder. Datum of gage is 1,487.33 ft above National Geodetic Vertical Datum of 1929. Aug. 17, 1898, to Dec. 31, 1904, and Sept. 1, 1922, to Sept. 30, 1926, nonrecording gages at bridge 0.7 mi downstream at datum 16.24 ft and 16.29 ft lower, respectively.

**REMARKS.**--Records good except those for estimated daily discharges (ice effect), which are fair. Low and medium flow regulated since July 1925 by Deep Creek Reservoir, 12 mi upstream from station (see station 03076000). U.S. Army Corps of Engineers satellite data collection platform at station. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

**EXTREMES FOR CURRENT YEAR.**--Maximum discharge, 4,690 ft<sup>3</sup>/s, July 27, gage height, 5.56 ft; minimum discharge, 51 ft<sup>3</sup>/s, Sept. 17-19.

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	154	78	126	e165	715	269	1770	1670	583	181	294	53
2	64	68	113	e200	517	299	1210	2650	324	143	286	120
3	57	72	102	149	425	402	921	2740	397	128	223	93
4	53	74	95	e160	446	524	729	1920	388	122	160	59
5	144	77	92	131	472	452	575	1190	342	225	221	54
6	154	125	142	e140	389	384	510	724	428	188	164	124
7	54	63	147	133	326	343	446	977	580	95	164	58
8	155	67	197	125	360	316	383	1800	335	150	113	56
9	77	197	420	174	305	294	448	1720	260	140	169	125
10	122	123	413	186	307	281	473	1200	345	328	132	54
11	53	81	282	922	691	252	401	953	307	429	101	55
12	127	60	263	959	666	236	341	1470	282	250	160	54
13	58	130	205	648	651	236	323	1080	251	116	146	127
14	64	79	224	503	603	246	400	1280	460	260	139	55
15	153	99	286	440	465	226	1580	1290	343	430	145	60
16	97	60	252	418	385	276	1650	1120	283	189	136	132
17	90	85	262	351	371	342	1140	856	358	186	104	54
18	83	53	801	324	351	477	920	3450	205	262	86	118
19	77	53	1010	288	390	647	767	2980	197	188	140	122
20	69	61	655	281	335	2610	1020	1660	164	219	89	136
21	61	61	541	294	485	3480	1030	1140	217	208	125	56
22	59	60	387	263	506	1920	3360	840	123	241	118	58
23	61	59	337	255	408	1320	2270	885	157	161	134	138
24	144	64	367	1610	365	1170	1410	679	255	145	81	76
25	127	101	e310	2610	370	850	1610	651	236	95	175	63
26	64	182	e280	1370	360	942	906	522	147	182	182	62
27	90	243	e200	917	387	1520	769	459	143	1360	77	292
28	93	233	e190	691	340	1520	3230	402	177	1330	64	417
29	87	163	e180	572	---	1060	3440	634	123	648	59	224
30	153	141	e170	536	---	796	2120	549	157	434	129	204
31	99	---	e170	628	---	662	---	611	---	254	130	---
TOTAL	2943	3012	9219	16443	12391	24352	36152	40102	8567	9287	4446	3299
MEAN	94.9	100	297	530	443	786	1205	1294	286	300	143	110
MAX	155	243	1010	2610	715	3480	3440	3450	583	1360	294	417
MIN	53	53	92	125	305	226	323	402	123	95	59	53
(†)	-63.4	-28.6	-0	102	12.6	101	106	-17.9	-50.4	-47.2	-66.7	-47.1
MEAN‡	31.5	71.4	297	632	456	887	1311	1276	236	253	76.3	62.9
CFSM‡	0.11	0.24	1.01	2.14	1.55	3.01	4.44	4.33	0.80	0.86	0.26	0.21
IN‡	0.13	0.27	1.16	2.47	1.61	3.47	4.95	4.99	0.89	0.99	0.30	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1898 - 1905, 1941 - 2002, BY WATER YEAR (WY)

	1898	1899	1900	1901	1902	1903	1904	1905	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
MEAN	275	489	832	867	992	1210	942	694	479	370	295	235	1103	2190	2147	1886	2277	2644	2231	1888	1823	1335	1319	1059																																														
MAX (WY)	1955	1986	1903	1996	1903	1963	1901	1996	1903	1990	1956	1996	1956	50.2	55.7	145	140	337	285	327	176	84.2	64.6	51.0	49.8																																													
MIN (WY)	1992	1905	1944	1981	1954	1990	1995	1982	1969	1991	1991	1991	1991																																																									

† Change in contents in Deep Creek Reservoir, equivalent in cubic feet per second, provided by Pennsylvania Electric Company.

‡ Adjusted for change in reservoir contents.

e Estimated.

MONONGAHELA RIVER BASIN

03076500 YOUGHIOGHENY RIVER AT FRIENDSVILLE, MD--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1898 - 1905 1941 - 2002	
ANNUAL TOTAL	181667		170213			
ANNUAL MEAN	498		466		636	
ANNUAL MEAN†	498		466		640	
HIGHEST ANNUAL MEAN					1052 1903	
LOWEST ANNUAL MEAN					375 1954	
HIGHEST DAILY MEAN	3550	Feb 15	3480	Mar 21	11200	Jan 19 1996
LOWEST DAILY MEAN	53	(a)	53	(b)	8.2	Sep 11 1966
ANNUAL SEVEN-DAY MINIMUM	59	Nov 18	59	Nov 18	29	Sep 21 1972
MAXIMUM PEAK FLOW			5270	Apr 28	(c) 16100	Jan 19 1996
MAXIMUM PEAK STAGE			5.83	Apr 28	(d) 14.20	Mar 29 1924
INSTANTANEOUS LOW FLOW			36	Oct 5	UNKNOWN	
ANNUAL RUNOFF (CFSM)	1.69		1.58		2.16	
ANNUAL RUNOFF (CFSM)†	1.69		1.58		2.17	
ANNUAL RUNOFF (INCHES)	22.91		21.46		29.31	
ANNUAL RUNOFF (INCHES)†	22.94		21.47		29.46	
10 PERCENT EXCEEDS	1030		1180		1410	
50 PERCENT EXCEEDS	290		252		403	
90 PERCENT EXCEEDS	77		64		104	

† Adjusted for change in reservoir contents since October 1940.

a Oct. 4, 11, Nov. 18, 19.

b Oct. 4, 11, Nov. 18, 19, Sept. 1.

c From rating curve extended above 5,800 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow.

d From floodmarks.

