

MONONGAHELA RIVER BASIN

03076500 YOUGHIOGHENY RIVER AT FRIENDSVILLE, MD

LOCATION.--Lat 39°39'13.0", long 79°24'29.9", 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 mi².

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 ft³/s, July 27, gage height, 5.56 ft; minimum discharge, 51 ft³/s, Sept. 17-19.

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	96	671	481	2,020	176	628	475	229	3,600	192	345	936
2	78	560	464	3,060	196	659	1,050	331	2,570	234	438	2,930
3	67	457	503	2,400	242	883	979	321	2,330	205	428	2,920
4	130	392	332	1,400	501	717	655	269	2,960	230	385	3,880
5	131	360	360	1,040	1,150	825	1,020	527	2,170	245	225	3,320
6	59	1,200	365	954	749	2,850	969	772	1,690	1,390	219	1,490
7	124	1,440	368	859	631	3,140	1,600	573	1,990	1,590	176	825
8	53	912	306	793	478	2,070	2,170	1,360	2,400	2,120	320	890
9	50	745	465	808	388	2,860	1,910	2,490	1,430	3,700	475	674
10	52	650	357	916	e360	2,780	2,190	4,700	1,310	5,920	1,470	488
11	166	703	334	760	e340	1,980	2,150	4,660	1,390	3,590	689	327
12	280	685	437	621	322	1,380	1,630	2,940	1,290	2,430	753	348
13	209	1,270	359	568	350	2,050	1,280	2,660	1,340	2,370	578	265
14	221	915	966	594	e260	4,210	1,120	2,130	1,560	1,760	655	269
15	128	940	822	493	e200	3,250	715	1,620	2,210	1,640	535	328
16	237	827	904	441	e180	3,370	587	1,530	2,060	1,380	283	525
17	563	1,210	664	393	e190	3,460	507	1,350	1,610	635	422	626
18	396	1,410	690	281	e200	3,710	533	808	1,810	481	528	717
19	271	1,240	710	176	e220	3,240	397	558	1,110	373	381	7,380
20	268	1,610	2,470	e160	e230	2,870	353	418	1,300	303	361	4,810
21	307	1,360	2,700	143	259	2,650	404	505	1,680	385	332	2,480
22	256	1,120	1,650	143	599	2,220	357	566	1,320	408	379	1,710
23	214	1,000	1,500	120	2,330	1,350	321	431	956	357	176	1,790
24	247	876	1,090	135	2,670	898	272	489	749	403	146	1,540
25	163	883	1,040	e115	1,990	732	310	405	591	444	270	1,450
26	201	631	968	100	1,190	629	242	553	443	178	263	1,330
27	259	607	770	e125	940	566	235	508	406	150	892	1,000
28	239	517	559	e160	690	478	271	524	278	335	2,200	1,670
29	292	451	614	167	---	428	197	587	239	1,200	959	1,300
30	1,270	412	593	217	---	442	197	534	275	405	840	1,220
31	916	---	709	323	---	437	---	949	---	430	1,340	---
TOTAL	7,943	26,054	24,550	20,485	18,031	57,762	25,096	36,297	45,067	35,483	17,463	49,438
MEAN	256	868	792	661	644	1,863	837	1,171	1,502	1,145	563	1,648
MAX	1,270	1,610	2,700	3,060	2,670	4,210	2,190	4,700	3,600	5,920	2,200	7,380
MIN	50	360	306	100	176	428	197	229	239	150	146	265
(†)	4.88	-47.1	-29.3	0	12.6	164	80.7	30.9	-20.2	-35.8	-60.2	-37.0
MEAN‡	261	821	763	670	671	2,027	918	1,202	1,482	1,109	503	1,611
CFSM‡	0.88	2.78	2.59	2.27	2.27	6.87	3.11	4.07	5.02	3.76	1.71	5.46
IN.‡	1.02	3.10	2.99	2.62	2.36	7.92	3.47	4.69	5.60	4.34	1.97	6.09

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1898 - 1905, 1941 - 2003, BY WATER YEAR (WY)

MEAN	274	495	831	864	987	1,219	940	700	494	381	298	255
MAX	1,103	2,190	2,147	1,886	2,277	2,644	2,231	1,888	1,823	1,335	1,319	1,648
(WY)	(1955)	(1986)	(1903)	(1996)	(1903)	(1963)	(1901)	(1996)	(1903)	(1990)	(1956)	(2003)
MIN	50.2	55.7	145	140	337	285	327	176	84.2	64.6	51.0	49.8
(WY)	(1992)	(1905)	(1944)	(1981)	(1954)	(1990)	(1995)	(1982)	(1969)	(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.

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1898 - 1905, 1941 - 2003	
ANNUAL TOTAL	213,586		363,669			
ANNUAL MEAN	585		996		642	
ANNUAL MEAN [‡]	587		1,002		645	
HIGHEST ANNUAL MEAN					1,052	1903
LOWEST ANNUAL MEAN					375	1954
HIGHEST DAILY MEAN	3,480	Mar 21	7,380	Sep 19	11,200	Jan 19, 1996
LOWEST DAILY MEAN	50	Oct 9	50	Oct 9	8.2	Sep 11, 1966
ANNUAL SEVEN-DAY MINIMUM	75	Sep 5	86	Oct 4	29	Sep 21, 1972
MAXIMUM PEAK FLOW			9,490	Sep 19	(a)16,100	Jan 19, 1996
MAXIMUM PEAK STAGE			7.20	Sep 19	(b)14.20	Mar 29, 1924
INSTANTANEOUS LOW FLOW			48	Oct 10	UNKNOWN	
ANNUAL RUNOFF (CFSM)	1.98		3.38		2.18	
ANNUAL RUNOFF (CFSM) [‡]	1.99		3.47		2.19	
ANNUAL RUNOFF (INCHES)	26.93		45.86		29.56	
ANNUAL RUNOFF (INCHES) [‡]	27.02		46.11		29.70	
10 PERCENT EXCEEDS	1,360		2,400		1,430	
50 PERCENT EXCEEDS	360		614		405	
90 PERCENT EXCEEDS	117		199		104	

[‡] Adjusted for change in reservoir contents since October 1940.

a From rating curve extended above 5,800 ft³/s on basis of slope-area measurement of peak flow.

b From floodmarks.

