

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, 7,300 ft³/s, July 27, gage height, 6.35 ft; minimum discharge, 50 ft³/s, Sept. 17.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	244	856	1,690	647	e240	660	1,190	696	291	142	169	132
2	227	625	2,060	487	e235	658	1,250	615	256	133	84	215
3	150	678	1,380	423	231	480	1,410	530	374	66	74	172
4	256	946	1,070	1,280	265	472	1,430	462	435	132	117	81
5	174	2,080	671	3,970	199	412	1,840	403	271	75	138	146
6	123	1,310	616	5,330	206	316	1,640	404	315	141	137	66
7	229	885	894	3,250	246	601	960	434	382	121	110	62
8	300	1,040	972	2,860	468	3,250	879	322	328	1,140	168	59
9	106	1,020	959	2,560	1,600	1,870	749	366	259	1,220	194	127
10	101	706	1,450	1,850	3,390	1,380	553	264	455	345	187	55
11	172	553	1,810	1,660	1,980	942	881	246	218	556	163	54
12	95	647	1,770	3,460	1,310	798	893	268	280	360	190	128
13	93	662	1,590	2,510	941	625	720	356	394	398	144	58
14	109	486	1,390	2,780	1,460	694	474	236	373	1,140	104	56
15	206	534	902	2,310	2,530	520	394	323	180	498	158	55
16	146	492	660	1,900	1,720	448	361	379	170	547	77	127
17	231	457	674	1,490	1,520	543	264	247	285	757	142	54
18	240	414	489	1,120	1,180	495	403	297	184	993	95	56
19	520	442	526	932	870	544	300	205	141	1,060	140	128
20	433	782	712	774	659	752	270	1,270	191	1,100	121	134
21	478	777	430	e640	1,000	761	389	1,250	114	759	275	158
22	436	740	569	e560	1,090	722	416	741	109	670	309	157
23	252	659	1,010	e500	1,020	1,600	843	789	112	450	121	134
24	285	919	998	e450	1,020	2,640	606	1,100	274	240	109	59
25	532	1,530	680	e410	726	1,920	696	892	91	349	124	57
26	332	1,640	588	e370	633	1,500	1,060	768	74	260	140	139
27	284	1,230	683	e330	448	1,120	948	559	141	338	75	70
28	272	1,110	856	e305	570	2,080	763	509	111	163	209	62
29	320	856	887	e280	---	5,830	623	470	68	272	256	67
30	2,230	649	846	e260	---	3,050	558	452	118	182	133	147
31	1,140	---	762	e250	---	1,990	---	325	---	157	121	---
TOTAL	10,716	25,725	30,594	45,948	27,757	39,673	23,763	16,178	6,994	14,764	4,584	3,015
MEAN	346	858	987	1,482	991	1,280	792	522	233	476	148	100
MAX	2,230	2,080	2,060	5,330	3,390	5,830	1,840	1,270	455	1,220	309	215
MIN	93	414	430	250	199	316	264	205	68	66	74	54
(†)	-71.6	-6.71	-45.5	-22.8	82.7	130	20.2	29.3	-6.71	-60.0	-58.5	-67.1
MEAN‡	274	851	942	1,459	1,074	1,410	812	551	226	416	89.5	32.9
CFSM‡	0.93	2.88	3.19	4.95	3.64	4.78	2.75	1.87	0.77	1.41	0.30	0.11
IN.‡	1.07	3.21	3.68	5.71	3.79	5.51	3.07	2.16	0.86	1.63	0.35	0.12

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1898 - 1905, 1941 - 2005, BY WATER YEAR (WY)

MEAN	279	513	833	873	985	1,230	942	697	492	380	296	257
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1898 - 1905, 1941 - 2005	
ANNUAL TOTAL	285,050		249,711			
ANNUAL MEAN	779		684		645	
ANNUAL MEAN‡	778		677		648	
HIGHEST ANNUAL MEAN					1,052	1903
LOWEST ANNUAL MEAN					375	1954
HIGHEST DAILY MEAN	7,450	Mar 6	5,830	Mar 29	11,200	Jan 19, 1996
LOWEST DAILY MEAN	76	Aug 10	54	(a)	8.2	Sep 11, 1966
ANNUAL SEVEN-DAY MINIMUM	114	Jan 28	76	Sep 11	29	Sep 21, 1972
MAXIMUM PEAK FLOW			7,300	Jul 27	(b)16,100	Jan 19, 1996
MAXIMUM PEAK STAGE			6.35	Jul 27	(c)14.20	Mar 29, 1924
INSTANTANEOUS LOW FLOW			50	Sep 17	UNKNOWN	
ANNUAL RUNOFF (CFSM)	2.64		2.32		2.19	
ANNUAL RUNOFF (CFSM)‡	2.64		2.29		2.20	
ANNUAL RUNOFF (INCHES)	35.95		31.49		29.71	
ANNUAL RUNOFF (INCHES)‡	35.83		31.17		29.84	
10 PERCENT EXCEEDS	1,650		1,550		1,440	
50 PERCENT EXCEEDS	524		452		406	
90 PERCENT EXCEEDS	153		112		106	

‡ Adjusted for change in reservoir contents since October 1940.

a Sept. 11, 17.

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

c From floodmarks.

