

## OHIO RIVER MAIN STEM

## 03016000 ALLEGHENY RIVER AT WEST HICKORY, PA

**LOCATION.**--Lat 41°34'15", long 79°24'29", Forest County, Hydrologic Unit 05010003, on right bank at downstream side of bridge on State Highway 127 at West Hickory, 0.6 mi upstream from Siggins Run, 0.8 mi downstream from East Hickory Creek, at mile 158.9.

**DRAINAGE AREA.**--3,660 mi<sup>2</sup>.

**PERIOD OF RECORD.**--October 1941 to current year.

**REVISED RECORDS.**--WRD PA-96-3: 1995(M).

**GAGE.**--Water-stage recorder. Datum of gage is 1,059.90 ft above sea level. Prior to Dec. 12, 1941, nonrecording gage at same site and datum.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Flow regulated by Allegheny Reservoir (station 03012520) 39 mi upstream since October 1965 and since 1941 by Chautauqua Lake (station 03013946). 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 1998 TO SEPTEMBER 1999  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2320	2810	2310	e1000	16100	5330	6510	5030	2320	1250	2230	1700
2	2260	2850	2300	e1000	14500	5400	7950	4800	2030	1240	1830	1730
3	2280	2840	2240	e1100	15200	5670	9050	4070	2210	1040	1810	1870
4	2280	2550	2270	e1200	15300	8510	10300	2550	2030	969	1810	1980
5	2230	2520	2040	e1300	17300	7490	11300	2350	1860	934	1790	1940
6	2220	2500	2020	e1300	16300	e6000	12600	2300	1760	957	1730	1920
7	2230	2830	2020	e1350	15400	e5300	12000	2260	1620	2030	1720	1950
8	2710	2910	2020	e1350	14500	e4700	11500	2470	1290	1710	1750	1940
9	2620	3000	1960	e1350	13700	e4200	11900	3690	1170	1570	1680	2170
10	2530	3040	1680	e1350	13000	e4000	13200	4020	1140	1660	1880	1760
11	2500	2790	1630	e1370	10100	e3800	12100	5360	1100	1610	1900	1830
12	2400	2800	1790	e1370	8260	e3400	12300	5290	1370	1550	1910	1730
13	2340	2140	1790	e1380	9950	e3300	16300	5230	1410	1510	1950	1680
14	2300	1490	1750	e1380	10100	e3200	14500	5180	1410	1470	2180	1680
15	2370	1330	2010	e1400	9290	e3000	10900	6380	1440	1460	2000	1930
16	2310	1280	2040	e1400	8510	e2800	8330	6300	1130	1970	1460	1940
17	2290	1740	2080	e1450	7450	e2900	6020	6050	1040	2110	1410	1880
18	2280	2390	2090	e1480	7890	e3700	6790	4640	1020	2410	1580	1840
19	2320	2440	2090	e1480	7570	6450	8010	4070	1230	2380	1580	1820
20	2320	2460	2110	e1500	6990	6260	8740	3390	1500	2360	1700	1720
21	2320	2460	2300	e2350	6440	5780	8330	3190	1530	2330	2140	2070
22	2320	2460	4820	e4700	6020	5920	8090	2420	1530	2400	2050	2010
23	1670	2140	4460	e10000	5890	6200	6880	2460	1760	2640	1950	1940
24	1600	2100	3440	19700	5640	5970	7980	2670	1800	2630	1700	2300
25	1580	2050	2690	13100	5380	6010	8060	4240	1800	2580	1670	2360
26	1570	2060	e2000	10600	4260	5800	8620	5160	1800	2260	2290	2300
27	2160	2030	e1650	10900	4150	5490	8090	5340	1800	2210	2040	2270
28	2210	2030	e1400	16200	4430	5490	7600	4890	1900	2190	1500	2220
29	2220	1980	e1250	19100	---	5710	6130	4430	1720	2200	1370	2270
30	2180	1980	e1100	18300	---	5980	5770	3810	1390	2200	1440	2870
31	2190	---	e1000	17200	---	6010	---	2620	---	2190	1560	---
TOTAL	69130	70000	66350	168660	279620	159770	285850	126660	47110	58020	55610	59620
MEAN	2230	2333	2140	5441	9986	5154	9528	4086	1570	1872	1794	1987
MAX	2710	3040	4820	19700	17300	8510	16300	6380	2320	2640	2290	2870
MIN	1570	1280	1000	1000	4150	2800	5770	2260	1020	934	1370	1680
CFM	.61	.64	.58	1.49	2.73	1.41	2.60	1.12	.43	.51	.49	.54
IN.	.70	.71	.67	1.71	2.84	1.62	2.91	1.29	.48	.59	.57	.61

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1999, BY WATER YEAR (WY)

MEAN	4135	6615	8591	8667	8153	12180	11780	7535	4757	3059	2270	2709
MAX	15890	17070	17950	21260	18970	29740	25970	20020	14730	15430	10160	12160
(WY)	1991	1993	1978	1952	1990	1945	1947	1943	1989	1972	1977	1977
MIN	324	659	581	844	1725	3378	2255	1333	1430	597	490	449
(WY)	1964	1961	1961	1961	1963	1969	1946	1985	1949	1955	1954	1955

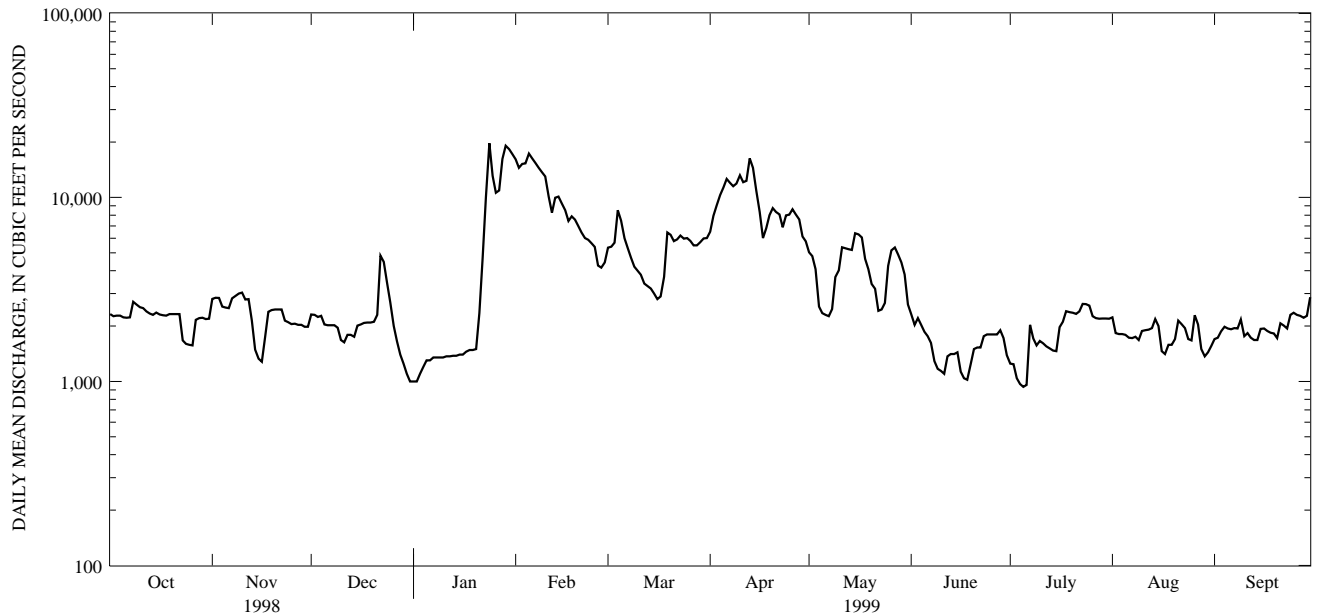
e Estimated.

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03016000 ALLEGHENY RIVER AT WEST HICKORY, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1942 - 1999	
ANNUAL TOTAL	2028680		1446400			
ANNUAL MEAN	5558		3963		6696	
HIGHEST ANNUAL MEAN					9547	
LOWEST ANNUAL MEAN					3963	
HIGHEST DAILY MEAN	36700	Jan 8	19700	Jan 24	90800	Mar 8 1956
LOWEST DAILY MEAN	e1000	Dec 31	934	Jul 5	272	Oct 15 1963
ANNUAL SEVEN-DAY MINIMUM	a1580	Dec 25	a1090	Dec 29	276	Oct 14 1963
INSTANTANEOUS PEAK FLOW			22800	Jan 24	b101000	Mar 8 1956
INSTANTANEOUS PEAK STAGE			c8.41	Jan 24	d17.20	Mar 8 1956
ANNUAL RUNOFF (CFSM)	1.52		1.08		1.83	
ANNUAL RUNOFF (INCHES)	20.62		14.70		24.86	
10 PERCENT EXCEEDS	12400		8860		15500	
50 PERCENT EXCEEDS	2800		2290		4340	
90 PERCENT EXCEEDS	1860		1400		1060	

- a Computed using estimated daily discharges.
- b From rating curve extended above 99,300 ft<sup>3</sup>/s.
- c Maximum gage height, 8.57 ft, Jan. 23 (backwater from ice).
- d Maximum gage height, 17.83 ft., Jan. 25, 1964 (backwater from ice).
- e Estimated.



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