

## 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.**--WDR 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 since October 1965 by Allegheny Reservoir (station 03012520) 39 mi upstream and since November 1949 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 1999 TO SEPTEMBER 2000  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1490	1540	4890	3410	e3300	22300	2380	3700	4630	2850	2270	1390
2	1060	1960	5980	3500	e3200	22100	2290	3960	3880	2450	2980	1620
3	988	6540	7010	5060	e3000	20200	2590	4070	4340	2360	4110	1930
4	1430	6280	7220	13200	e2700	13600	7860	4810	3350	2260	4110	1950
5	1850	6160	7610	15700	e2700	10600	10600	4690	3140	2160	3700	1920
6	1870	5490	8390	19100	e2600	6960	10800	4490	3460	1780	3640	2130
7	1840	5170	8700	18900	e2600	5400	11800	3730	3470	1430	4070	2150
8	1830	4660	8020	15300	e2500	4980	16500	3640	3290	1310	3960	2360
9	1880	3990	6430	12500	e2500	4210	19600	3520	3090	1270	3700	2390
10	1860	3260	6580	10700	e2450	3500	18600	3650	2910	1840	3300	2370
11	1840	2790	7410	9280	e2700	3310	21300	3980	2770	1970	3580	2410
12	1800	2610	8380	9650	e3100	3470	16400	5270	3140	1830	4090	2290
13	1820	2510	8020	9220	e3500	3560	14400	5270	3930	1450	3950	2330
14	2160	2340	8260	8650	e4000	3500	13600	5230	5550	1320	3800	2250
15	2170	2150	8370	7710	e4500	3500	12700	5080	9050	1330	3520	2320
16	2150	2070	9750	4330	e5000	3560	11300	4950	10400	1570	3000	2650
17	2130	1960	10500	4860	4650	4460	10100	4660	10100	1860	2810	2550
18	2080	1830	10200	6160	4440	4510	8000	4120	8690	1770	2670	2430
19	2000	1730	9580	5760	4340	4280	7600	11100	10300	1560	2590	2320
20	1640	1720	9990	5570	4140	4100	6200	12300	10600	1420	2540	2230
21	1570	1750	9780	4430	3420	3930	8340	12100	9480	1350	2460	2290
22	1530	2380	8050	4170	3350	3670	11400	13600	6810	1340	1900	2230
23	1530	2420	7510	e3900	3900	3460	12200	12900	8080	2110	1860	2290
24	2090	2410	6070	e3800	7570	3200	13100	12300	6380	2430	1690	2440
25	2580	2370	5700	e3700	14300	2930	12200	11600	5150	1680	1560	2830
26	2670	2800	5650	e3400	16900	2750	11200	10800	5040	1980	1540	2760
27	2430	4470	5590	e3400	21100	2680	10000	9720	4530	2000	1510	2500
28	1870	4840	4340	e3400	22400	2700	7860	8220	4470	2280	1480	2350
29	1470	4220	4160	e3400	23100	2660	6140	7920	4050	2320	1470	2260
30	1360	3540	2980	e3400	---	2250	4030	7320	3170	2380	1450	2180
31	1330	---	2980	e3400	---	2380	---	4870	---	2550	1420	---
TOTAL	56318	97960	224100	228960	183960	184710	321090	213570	167250	58210	86730	68120
MEAN	1817	3265	7229	7386	6343	5958	10700	6889	5575	1878	2798	2271
MAX	2670	6540	10500	19100	23100	22300	21300	13600	10600	2850	4110	2830
MIN	988	1540	2980	3400	2450	2250	2290	3520	2770	1270	1420	1390
CFSM	.50	.89	1.98	2.02	1.73	1.63	2.92	1.88	1.52	.51	.76	.62
IN.	.57	1.00	2.28	2.33	1.87	1.88	3.26	2.17	1.70	.59	.88	.69

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2000, BY WATER YEAR (WY)

MEAN	4096	6558	8568	8645	8122	12070	11760	7524	4771	3039	2279	2702
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

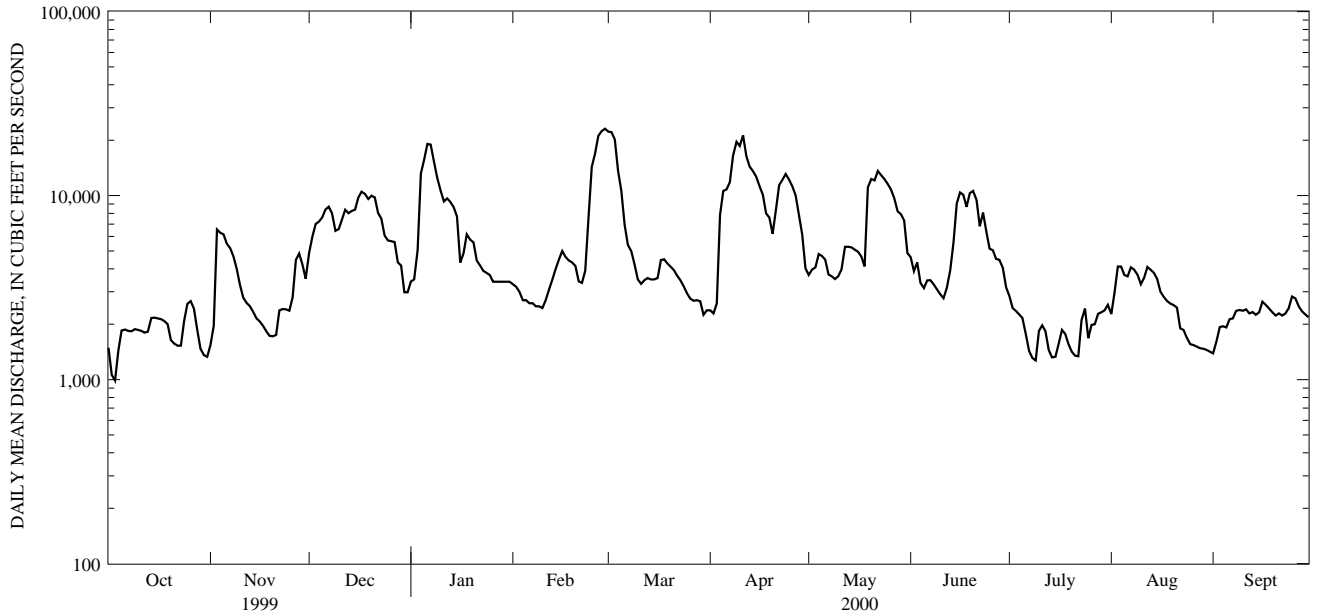
e Estimated.

OHIO RIVER MAIN STEM

03016000 ALLEGHENY RIVER AT WEST HICKORY, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR			FOR 2000 WATER YEAR		WATER YEARS 1942 - 2000	
ANNUAL TOTAL	1619298			1890978			
ANNUAL MEAN	4436			5167		6670	
HIGHEST ANNUAL MEAN						9547	
LOWEST ANNUAL MEAN						3963	
HIGHEST DAILY MEAN	19700	Jan 24		23100	Feb 29	90800	Mar 8 1956
LOWEST DAILY MEAN	934	Jul 5		988	Oct 3	272	Oct 15 1963
ANNUAL SEVEN-DAY MINIMUM	1110	Jun 30		1470	Aug 26	276	Oct 14 1963
INSTANTANEOUS PEAK FLOW				23800	Feb 28	a101000	Mar 8 1956
INSTANTANEOUS PEAK STAGE				b8.53	Feb 28	c17.20	Mar 8 1956
ANNUAL RUNOFF (CFSM)	1.21			1.41		1.82	
ANNUAL RUNOFF (INCHES)	16.46			19.22		24.76	
10 PERCENT EXCEEDS	9970			11100		15400	
50 PERCENT EXCEEDS	2410			3520		4320	
90 PERCENT EXCEEDS	1400			1740		1070	

- a From rating curve extended above 99,300 ft<sup>3</sup>/s.
- b Maximum gage height, 9.61 ft, Jan. 28 (backwater from ice).
- c Maximum gage height, 17.83 ft., Jan. 25, 1964 (backwater from ice).



1-YEAR HYDROGRAPH  
OCTOBER 1, 1999 TO SEPTEMBER 30, 2000