

## 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 November 1949 by Chautauqua Lake (station 03013946), since October 1965 by Allegheny Reservoir (station 03012520) 39 mi upstream. 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 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2140	2700	10500	e3200	e3300	5070	6690	5540	3580	2010	2540	2120
2	2120	2860	9870	e3000	e3400	4510	6360	4130	4010	2130	2520	1960
3	2530	2910	9030	e2900	e3300	3610	6270	3640	4100	2200	2530	1890
4	2660	2920	8390	e2800	e3200	3450	6170	2830	4130	2100	2570	1790
5	2830	2890	8020	e2700	e3000	3360	6220	2650	3880	1860	2510	1830
6	5220	2870	7540	e2600	e2900	3680	6580	2540	3620	1860	2460	1900
7	6190	2860	6620	e2500	e2800	3780	7440	2450	3350	1750	2240	2170
8	7320	2870	6320	e2500	e2600	3720	8040	2420	2930	1890	2180	2190
9	8730	2850	5860	e2600	e4000	3720	9990	2450	2000	1910	2160	2050
10	9030	2970	5450	e2500	13100	3630	16300	2440	1550	1870	2330	2010
11	9800	3080	4990	e2500	13600	3570	18900	2190	1560	1880	2310	2170
12	11000	3140	6370	e2400	15700	3520	18400	2990	1550	1860	2120	2130
13	9890	3130	7240	e2300	17500	4220	17800	3070	1500	2050	2070	2410
14	4900	3070	6870	e2300	17300	6270	17200	3480	1440	2050	2050	2300
15	3560	2960	6390	e2300	20900	6150	15900	3220	1360	2030	2160	1960
16	2770	2910	6220	e2300	20700	5790	15500	2990	1590	2260	2160	2240
17	2520	2920	12300	e2400	19100	5840	15300	2790	1780	2280	2190	2210
18	2440	2960	12500	e2400	16900	5570	12800	2200	1910	2260	2190	2240
19	2300	3070	15500	e2300	13600	5140	10800	1860	1930	2310	2180	2470
20	2250	3120	16800	e2300	11000	5520	9200	1510	1910	2430	2320	2550
21	2460	3130	15200	e2200	8970	5970	8210	1470	1950	2440	2300	2220
22	2460	3090	13100	e2200	8600	8260	10500	1910	6060	2420	2240	2200
23	2430	2930	10400	e2100	6670	9280	11700	2900	5230	2250	2260	2190
24	2420	2930	8540	e2100	5120	8830	12700	3800	4510	2230	2210	2250
25	2650	2820	5720	e2000	4990	8260	12000	4860	3750	2690	2170	2070
26	2660	3390	e5000	e2000	6130	7640	11100	4770	3170	2870	2280	1980
27	2750	5710	e4600	e2000	6510	6960	8740	4560	2330	2740	2510	1980
28	2780	7090	e4100	e1950	6050	6000	7830	4340	1790	2410	2370	2000
29	2740	7510	e3800	e1900	---	5760	5880	4370	1820	2380	2280	2050
30	2700	10000	e3600	e2200	---	5790	5810	4270	1750	2360	2020	2010
31	2660	---	e3400	e2600	---	7110	---	3970	---	2550	1990	---
TOTAL	128910	107660	250240	74050	260940	169980	326330	98610	82040	68330	70420	63540
MEAN	4158	3589	8072	2389	9319	5483	10880	3181	2735	2204	2272	2118
MAX	11000	10000	16800	3200	20900	9280	18900	5540	6060	2870	2570	2550
MIN	2120	2700	3400	1900	2600	3360	5810	1470	1360	1750	1990	1790
CFSM	1.14	.98	2.21	.65	2.55	1.50	2.97	.87	.75	.60	.62	.58
IN.	1.31	1.09	2.54	.75	2.65	1.73	3.32	1.00	.83	.69	.72	.65

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2001, BY WATER YEAR (WY)

MEAN	4097	6509	8560	8541	8141	11960	11750	7451	4737	3026	2279	2692
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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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1942 - 2001	
ANNUAL TOTAL	1999410		1701050			
ANNUAL MEAN	5463		4660		6637	
HIGHEST ANNUAL MEAN					9547	1956
LOWEST ANNUAL MEAN					3963	1999
HIGHEST DAILY MEAN	23100	Feb 29	20900	Feb 15	90800	Mar 8 1956
LOWEST DAILY MEAN	1270	Jul 9	1360	Jun 15	272	Oct 15 1963
ANNUAL SEVEN-DAY MINIMUM	1470	Aug 26	1510	Jun 10	276	Oct 14 1963
MAXIMUM PEAK FLOW			21600	Feb 15	a101000	Mar 8 1956
MAXIMUM PEAK STAGE			8.17	Feb 15	b17.20	Mar 8 1956
ANNUAL RUNOFF (CFSM)	1.49		1.27		1.81	
ANNUAL RUNOFF (INCHES)	20.32		17.29		24.64	
10 PERCENT EXCEEDS	12100		9990		15300	
50 PERCENT EXCEEDS	3570		2900		4280	
90 PERCENT EXCEEDS	2120		1980		1090	

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

