

OHIO RIVER MAIN STEM

03016000 ALLEGHENY RIVER AT WEST HICKORY, PA
(Pennsylvania Water-Quality Network Station)

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 mi².

WATER-DISCHARGE RECORDS

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 National Geodetic Vertical Datum of 1929. Prior to Dec. 12, 1941, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. Records good. 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 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1970	1950	6640	5720	22600	4080	13800	11000	8500	4820	3110	2600
2	1950	1980	6410	5460	21600	3900	15600	8250	8110	3260	2650	2560
3	1940	2160	5760	4830	23900	5040	17300	9830	7630	2520	2320	2600
4	1900	2190	5810	4220	24400	6400	17600	12900	6850	2450	2130	2890
5	1870	2090	5540	3560	22900	5780	16600	12000	6910	2400	2020	2790
6	1900	1990	5400	3520	22000	5420	15600	11200	11000	2340	1950	2720
7	1920	1890	5220	3490	21100	5230	14600	8580	12200	2310	1870	2690
8	1940	1840	4550	3430	19700	5170	12900	8100	17200	2300	2300	2740
9	1990	1860	4420	3410	17100	4920	11600	6830	16500	2310	2310	2970
10	1950	1850	3700	3430	16000	5300	11900	6890	15800	2410	2550	2990
11	1910	1850	3060	3510	15800	5670	11300	8370	15200	2050	2560	2730
12	1910	1800	2970	3630	14000	5640	10500	11500	14700	1760	2550	2650
13	1890	1750	2970	3710	12100	5680	9670	20100	13500	1690	2560	2600
14	1890	1710	3140	3660	10900	5490	11200	22800	9460	1660	2560	2930
15	1960	1710	4060	3660	8600	5150	12900	22400	5690	1630	2620	3120
16	1650	1710	5040	3710	7230	5290	9480	22700	5810	1850	2580	3640
17	1800	1690	5410	3230	7260	5400	11000	24400	6350	2120	2760	3340
18	1970	1660	9990	3160	6930	5110	15500	26500	8630	2140	2330	2750
19	1880	1650	10000	2970	6840	4810	18100	26000	8320	2130	2320	2720
20	1790	1960	11700	3060	6790	4740	17400	26600	7870	2190	2620	2540
21	1690	2190	12400	2970	6910	5860	16900	25300	6320	2280	2510	2440
22	2050	2210	11600	2970	6390	5860	16000	24200	4840	2110	2530	2380
23	2070	2080	11100	2920	6400	5390	11900	21100	3440	2200	2610	2290
24	2250	1950	13800	3800	6050	5210	9170	21300	3320	2210	2580	2260
25	2060	3040	13400	7000	5650	5200	7320	17800	3250	1900	2520	2440
26	2000	4230	12100	7960	5470	5320	5880	14300	3240	1880	2480	2410
27	2110	3790	11200	7780	5660	8520	5610	12800	2730	1900	2000	2580
28	2500	4450	10100	7540	4460	8120	6310	10200	3140	1990	1940	2290
29	2390	4860	7800	8160	---	8770	8860	8230	5290	5330	1930	1960
30	2230	5840	7420	11100	---	13700	10700	6590	5140	5780	2350	1960
31	2110	---	6940	14900	---	13400	---	7250	---	4220	2610	---
TOTAL	61440	71930	229650	152470	354740	189570	373200	476020	246940	78140	74730	79580
MEAN	1982	2398	7408	4918	12670	6115	12440	15360	8231	2521	2411	2653
MAX	2500	5840	13800	14900	24400	13700	18100	26600	17200	5780	3110	3640
MIN	1650	1650	2970	2920	4460	3900	5610	6590	2730	1630	1870	1960
CFSM	0.54	0.66	2.02	1.34	3.46	1.67	3.40	4.20	2.25	0.69	0.66	0.72
IN.	0.62	0.73	2.33	1.55	3.61	1.93	3.79	4.84	2.51	0.79	0.76	0.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2002, BY WATER YEAR (WY)

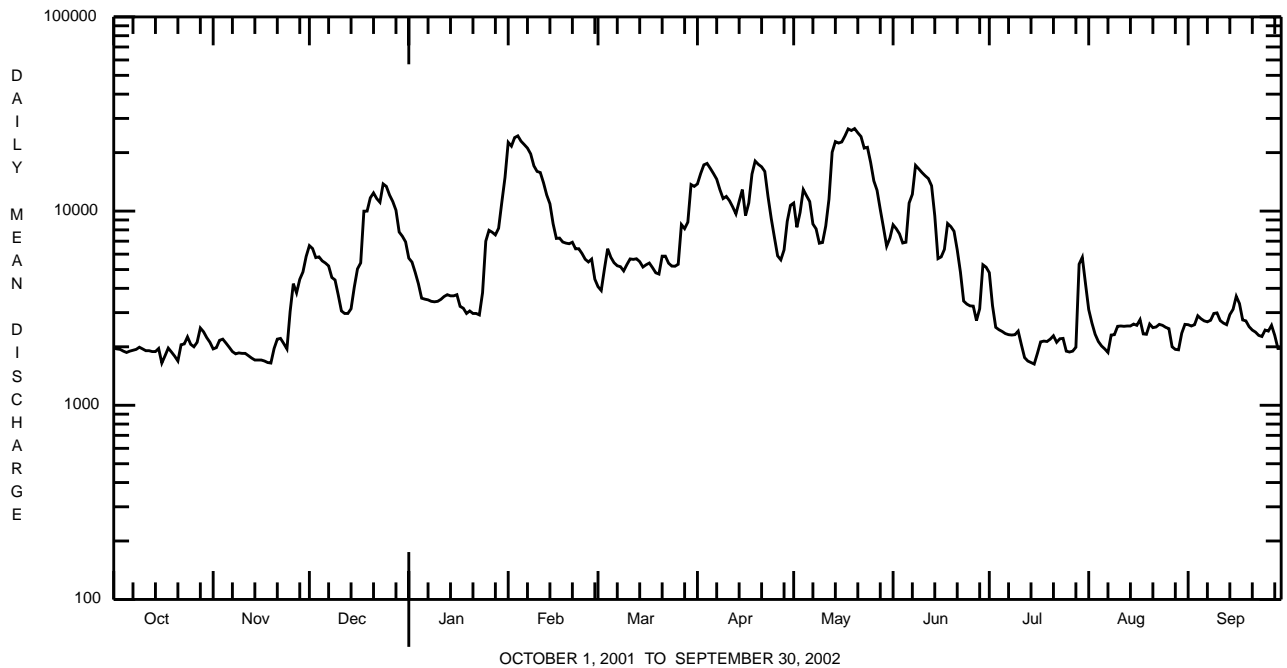
MEAN	4062	6442	8541	8482	8215	11870	11760	7581	4794	3017	2281	2692
MAX	15890	17070	17950	21260	18970	29740	25970	20020	14730	15430	10160	12160
(WY)	1991	1993	1978	1952	1990	1945	1947	1943	1989	1972	1977	1977
MIN	324	659	581	844	1725	3378	2255	1333	1430	597	490	449
(WY)	1964	1961	1961	1961	1963	1969	1946	1985	1949	1955	1954	1955

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1942 - 2002	
ANNUAL TOTAL	1577260		2388410			
ANNUAL MEAN	4321		6544		6635	
HIGHEST ANNUAL MEAN					9547	1956
LOWEST ANNUAL MEAN					3963	1999
HIGHEST DAILY MEAN	20900	Feb 15	26600	May 20	90800	Mar 8 1956
LOWEST DAILY MEAN	1360	Jun 15	1630	Jul 15	272	Oct 15 1963
ANNUAL SEVEN-DAY MINIMUM	1510	Jun 10	1700	Nov 13	276	Oct 14 1963
MAXIMUM PEAK FLOW			27300	May 19,20	a101000	Mar 8 1956
MAXIMUM PEAK STAGE			9.09	May 19,20	b17.20	Mar 8 1956
ANNUAL RUNOFF (CFSM)	1.18		1.79		1.81	
ANNUAL RUNOFF (INCHES)	16.03		24.28		24.63	
10 PERCENT EXCEEDS	9990		15500		15300	
50 PERCENT EXCEEDS	2500		4420		4280	
90 PERCENT EXCEEDS	1870		1940		1100	

- a From rating curve extended above 99,300 ft³/s.
- b Maximum gage height, 17.83 ft., Jan. 25, 1964 (backwater from ice).



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03016000 ALLEGHENY RIVER AT WEST HICKORY, PA--Continued
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WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2002 to current year.

REMARKS.--Other data for the Water-Quality Network can be found on pages 210-233.

COOPERATION.--Samples were collected as part of the Pennsylvania Department of Environmental Protection Water Quality Network (WQN) with cooperation from the Pennsylvania Department of Environmental Protection.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Time	AGENCY ANA-LYZING SAMPLE NUMBER (00028)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CAC03) (00900)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	ANC WATER UNFLTRD FET LAB (MG/L AS CAC03) (00417)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
APR 2002													
16...	1130	9813	9790	40	10.5	6.9	145	11.8	52	15.9	3.1	36	11.0
JUN 27...	1230	9813	2720	40	9.0	8.5	134	22.9	49	14.8	3.0	40	10.1
AUG 21...	1330	9813	2510	40	9.7	8.7	142	23.8	55	16.7	3.3	40	10.3

Date	RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L) (00515)	RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, AMMONIA (MG/L AS N) (00610)	NITRO-GEN, NITRATE (MG/L AS N) (00620)	NITRO-GEN, NITRITE (MG/L AS N) (00615)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS ORTHO (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC (MG/L AS C) (00680)	COPPER, TOTAL RECOV-ERABLE (µG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (µG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (µG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (µG/L AS MN) (01055)
APR 2002													
16...	138	28	.030	.42	<.040	.86	.04	.050	3.7	<10	610	1.3	50
JUN 27...	90	6	<.020	.22	<.040	.41	.02	.020	2.6	<10	250	<1.0	40
AUG 21...	108	2	<.020	.25	<.040	.33	.03	.020	2.8	<10	140	<1.0	30

Date	NICKEL, TOTAL RECOV-ERABLE (µG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)
APR 2002		
16...	<50	10
JUN 27...	<50	<10
AUG 21...	<50	<10