

## OHIO RIVER MAIN STEM

03031500 ALLEGHENY RIVER AT PARKER, PA  
(Pennsylvania Water-Quality Network Station)

**LOCATION.**--Lat 41°06'02", long 79°40'53", Armstrong County, Hydrologic Unit 05010006, on right bank 500 ft downstream from bridge on State Highway 368 at Parker, 1.1 mi downstream from Clarion River, at mile 83.4.

**DRAINAGE AREA.**--7,671 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

**PERIOD OF RECORD.**--October 1932 to current year. Prior to October 1963, published as "*at Parkers Landing.*" Gage height records collected at same site since 1885 are contained in reports of U.S. Weather Bureau.

**GAGE.**--Water-stage recorder. Datum of gage is 845.14 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1932, U.S. Weather Bureau gages at different datums. Oct. 1-28, 1932, nonrecording gage at datum 27.00 ft lower.

**REMARKS.**--Records good except those for estimated daily discharges, which are poor. Flow regulated since 1924 by Piney Reservoir, since December 1940 by Tionesta Lake, since November 1949 by Chautauqua Lake (station 03013946), since June 1952 by East Branch Clarion River Lake (station 03027000), since October 1965 by Allegheny Reservoir (station 03012520), since July 1970 by Union City Reservoir (station 03021518), and since January 1974 by Woodcock Creek Lake (station 03022550). Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

**EXTREMES OUTSIDE PERIOD OF RECORD.**--Flood of Mar. 17, 1865 reached a stage of 29.4 ft, present datum, discharge, about 250,000 ft<sup>3</sup>/s, from rating curve extended above 137,000 ft<sup>3</sup>/s.

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	3780	5070	17200	11600	39700	10900	31800	23200	16900	7230	7710	3170
2	3340	4910	16700	10900	48000	9650	30400	26300	15600	6750	5910	3220
3	3300	5030	14700	9520	44500	10500	30700	26600	13100	5260	4680	3410
4	3140	5000	13100	8660	43000	15700	36400	25300	12400	4560	3690	3860
5	3020	5540	11600	7340	39900	16100	33100	24300	10800	3880	3410	3440
6	3320	4930	10900	6380	34700	12600	29400	22200	20500	3970	3360	3370
7	2840	4420	10100	6750	32600	12600	25900	18200	26200	3710	2950	3290
8	2930	4080	8770	6980	30600	12300	23500	16300	25900	4250	3040	3250
9	2910	4210	8000	7030	26700	12000	21100	16400	27700	4060	3180	3510
10	3160	4330	8220	6350	24200	11200	22300	17200	26200	4010	3400	3840
11	3500	3760	6620	6760	25900	11800	22300	17800	22900	3780	3220	4000
12	3050	3940	5950	6830	26400	11700	20600	23300	20800	3530	3380	3300
13	2990	4080	5990	6990	23000	11700	19300	67700	19000	3300	3880	3340
14	3190	3630	6210	e7100	20400	11000	25400	74400	20800	2830	3680	3320
15	3080	3440	7260	7050	17900	10400	39800	64200	26000	3000	3620	3630
16	3320	3390	9390	e7160	15200	10600	42200	54400	18000	2950	3550	4410
17	3360	3340	12200	e7190	14500	12300	31900	51000	16900	3030	4510	4740
18	3470	3370	30200	7110	14100	12400	29400	57400	16500	3200	3850	4710
19	3750	3240	33000	6230	13100	10400	32100	56700	16400	3270	3340	3990
20	3830	3410	27600	5850	12800	11000	30500	51100	15100	3750	3280	4340
21	3340	3990	26400	5810	13200	13000	27800	46600	12700	3080	3880	3600
22	3340	4640	24400	6300	15800	15000	27000	42300	10100	3470	3310	3250
23	3700	4540	22300	6100	14400	13600	24200	37100	8110	3830	4100	3290
24	7180	4180	25700	6560	13200	11800	21300	32900	7260	4110	4840	3030
25	7170	4900	28700	13600	12500	13700	17800	29400	6560	3370	4270	3270
26	6560	8710	25100	18000	12000	15800	15600	24700	5750	3600	3890	3640
27	5650	9910	21700	17600	12100	28100	13500	23400	6260	4350	4000	4130
28	6020	8410	19400	16000	12000	28600	13200	20400	5840	3840	3460	5180
29	6800	9380	16800	15700	---	26200	18900	16700	6450	4800	2890	4990
30	6630	12000	13800	19200	---	30300	23300	15400	7940	11100	3030	3840
31	5720	---	12600	29400	---	35700	---	16200	---	10300	3140	---
TOTAL	127390	153780	500610	304050	652400	468650	780700	1039100	464670	136170	118450	112360
MEAN	4109	5126	16150	9808	23300	15120	26020	33520	15490	4393	3821	3745
MAX	7180	12000	33000	29400	48000	35700	42200	74400	27700	11100	7710	5180
MIN	2840	3240	5950	5810	12000	9650	13200	15400	5750	2830	2890	3030
CFSM	0.54	0.67	2.11	1.28	3.04	1.97	3.39	4.37	2.02	0.57	0.50	0.49
IN.	0.62	0.75	2.43	1.47	3.16	2.27	3.79	5.04	2.25	0.66	0.57	0.54

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2002, BY WATER YEAR (WY)

MEAN	6962	12250	17010	17510	17940	26260	24850	15610	9909	6018	4493	4927
MAX	28650	33760	38040	53560	40460	63020	58110	36220	35340	26090	16890	21370
(WY)	1991	1986	1978	1937	1976	1936	1940	1943	1989	1972	1994	1977
MIN	802	1655	1332	2111	3788	7746	5651	3610	1508	1069	1034	950
(WY)	1964	1961	1961	1961	1934	1969	1946	1934	1934	1934	1934	1936

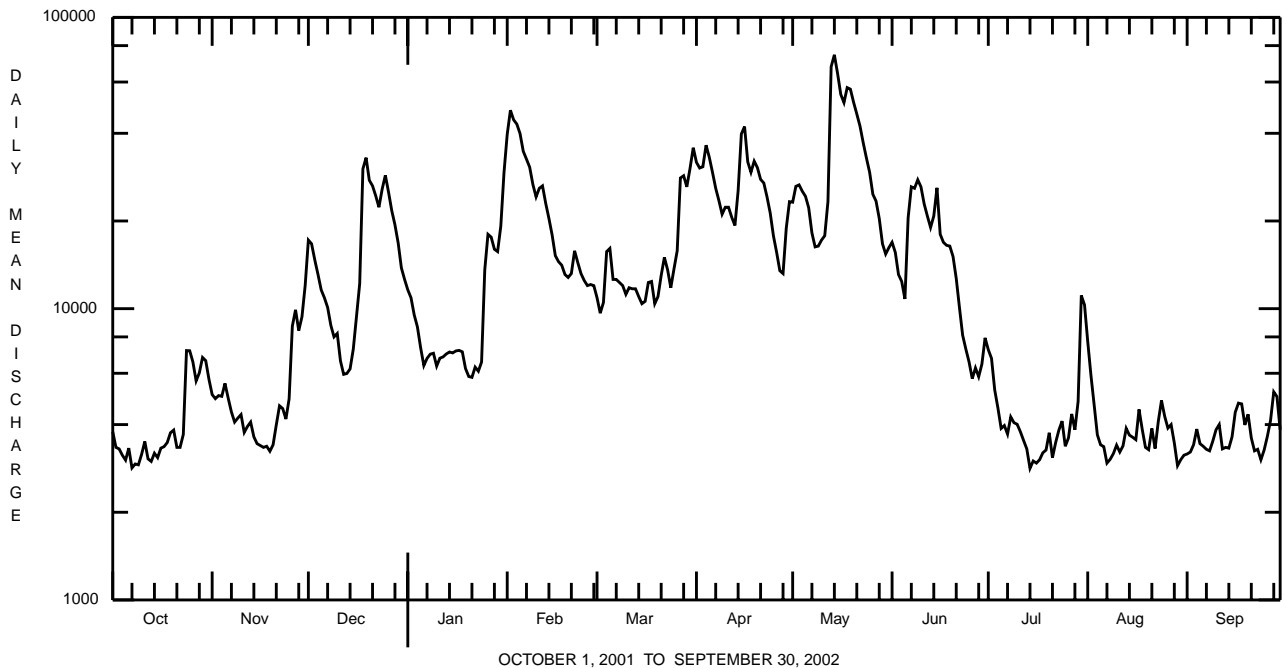
e Estimated.

OHIO RIVER MAIN STEM

03031500 ALLEGHENY RIVER AT PARKER, PA--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1933 - 2002	
ANNUAL TOTAL	3343030		4858330			
ANNUAL MEAN	9159		13310		13620	
HIGHEST ANNUAL MEAN					19640	1956
LOWEST ANNUAL MEAN					8175	1934
HIGHEST DAILY MEAN	43900	Feb 16	74400	May 14	160000	Jan 22 1959
LOWEST DAILY MEAN	2840	Oct 7	2830	Jul 14	454	Jul 28 1934
ANNUAL SEVEN-DAY MINIMUM	3050	Oct 4	3050	Oct 4	508	Jul 25 1934
MAXIMUM PEAK FLOW			77200	May 14	<b>ab</b> 175000	Jan 22 1959
MAXIMUM PEAK STAGE			14.02	May 14	<b>c</b> 29.60	Jan 21 1959
INSTANTANEOUS LOW FLOW					409	Jul 30 1934
ANNUAL RUNOFF (CFSM)	1.19		1.74		1.78	
ANNUAL RUNOFF (INCHES)	16.21		23.56		24.12	
10 PERCENT EXCEEDS	22500		29400		31600	
50 PERCENT EXCEEDS	5280		8660		8800	
90 PERCENT EXCEEDS	3270		3300		2190	

- a About.
- b From rating curve extended above 137,000 ft<sup>3</sup>/s.
- c Backwater from ice.



OHIO RIVER MAIN STEM

03031500 ALLEGHENY RIVER AT PARKER, PA--Continued  
(Pennsylvania Water-Quality Network Station)

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 WHOLE 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 CACO3) (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 CACO3) (00417)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
MAY 2002													
01...	1130	9813	21050	40	13.0	7.7	154	9.8	55	16.4	3.5	30	13.1
21...	0845	9813	47070	40	11.1	7.5	132	10.4	41	11.1	3.1	22	8.7
JUN													
13...	0930	9813	18020	40	8.7	7.4	335	18.9	45	13.0	3.1	28	9.9
JUL													
24...	0930	9813	3850	40	8.4	7.5	217	26.0	74	20.9	5.4	38	15.8
AUG													
15...	0900	9813	3550	40	7.0	7.6	145	25.7	68	19.9	4.5	44	16.6
SEP													
25...	0930	9813	3340	40	9.5	8.2	200	19.4	70	20.6	4.6	48	18.5

Date	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	RESIDUE AT 105 DEG. C, DIS-SOLVED (MG/L) (00515)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	FECAL COLI-FORM, MFC MF, WATER (COL/100 ML) (31616)	ARSENIC DIS-SOLVED (µG/L AS AS) (01000)
MAY 2002													
01...	<.2	16.4	<2	<2	<.020	.38	<.040	.72	.03	<.010	1.6	260	--
21...	<.2	16.0	48	8	<.020	.34	<.040	.59	.02	.029	2.0	100	<4.0
JUN													
13...	<.2	14.0	100	4	<.020	.28	<.040	.66	.02	.027	2.0	100	<4.0
JUL													
24...	<.2	36.2	96	8	<.020	.04	<.040	.51	.04	.033	1.4	1300	<4.0
AUG													
15...	<.2	25.6	62	4	.030	.06	<.040	.29	.01	.015	1.0	280	<4.0
SEP													
25...	<.2	21.5	158	6	<.020	.10	<.040	.30	<.01	.011	2.1	40	<4.0

Date	CADMIUM DIS-SOLVED (µG/L AS CD) (01025)	COPPER, DIS-SOLVED (µG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (µG/L AS CU) (01042)	IRON, DIS-SOLVED (µG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (µG/L AS FE) (01045)	LEAD, DIS-SOLVED (µG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (µG/L AS PB) (01051)	MANGA-NESE, DIS-SOLVED (µG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (µG/L AS MN) (01055)	NICKEL, DIS-SOLVED (µG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (µG/L AS NI) (01067)	ZINC, DIS-SOLVED (µG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)
MAY 2002													
01...	--	<4	<4	70	930	<1.0	<1.0	40	90	<4.0	<4.0	6.8	8.9
21...	--	<4	<4	40	720	<1.0	<1.0	80	150	<4.0	5.2	10	10
JUN													
13...	<.20	<4	<4	40	530	<1.0	<1.0	40	100	<4.0	5.0	10	20
JUL													
24...	<.20	<4	<4	50	170	<1.0	<1.0	200	320	4.1	4.9	9.6	9.0
AUG													
15...	<.20	<4	<4	20	140	<1.0	<1.0	90	130	<4.0	<4.0	5.5	10
SEP													
25...	<.20	<4	<4	<20	80	<1.0	<1.0	30	60	<4.0	<4.0	10	10

Date PHENOLS TOTAL (µG/L) (32730)

MAY 2002	
01...	<5
21...	<5
JUN	
13...	<5
JUL	
24...	<5
AUG	
15...	<5
SEP	
25...	<5