



2005 Water Year
OHIO RIVER BASIN
03031500 Allegheny River at Parker, PA

Latitude: 41°06'02"

Longitude: 079°40'53"

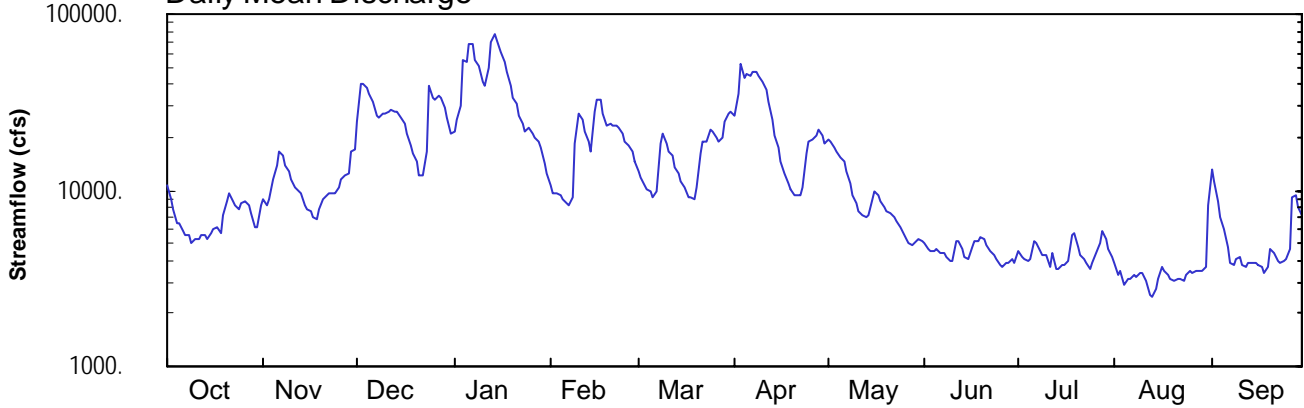
Hydrologic Unit Code: 05010006

Armstrong County

Datum: 845.14 feet

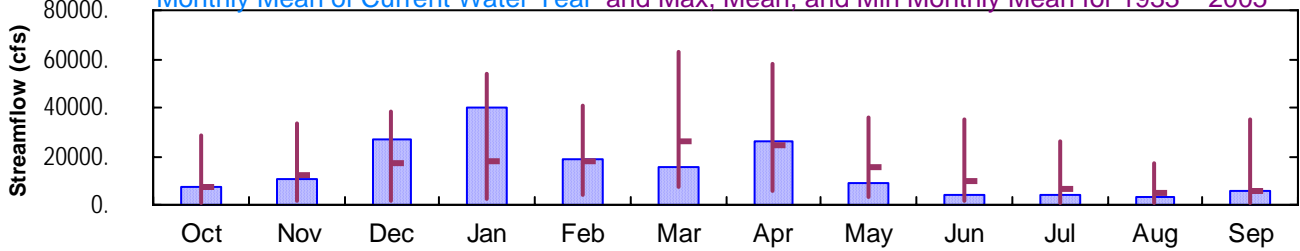
Drainage Area: 7671. mi²

Daily Mean Discharge

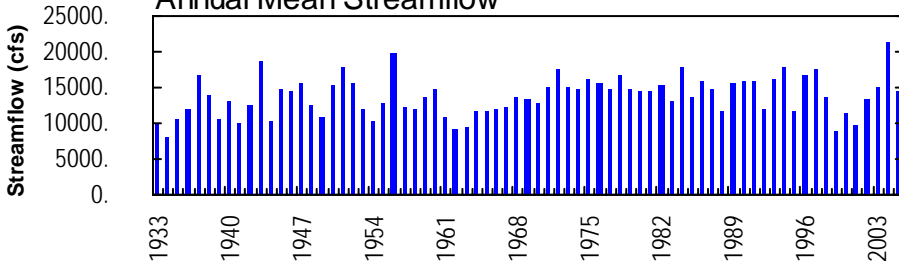


Monthly Statistics

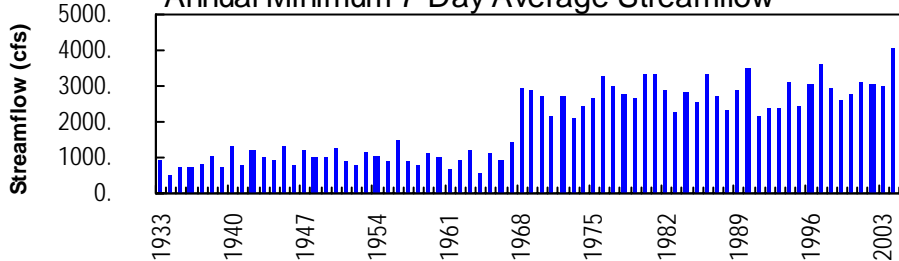
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1933 – 2005



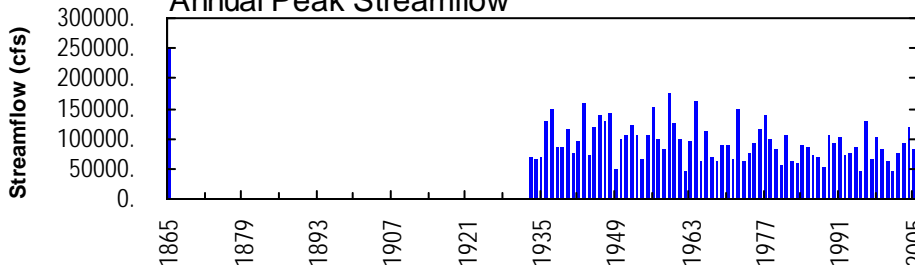
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



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 mi².

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 ft³/s, from rating curve extended above 137,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10700	8840	24300	21800	10600	13000	26600	19500	5020	4540	3830	13200
2	8920	8200	40500	25300	9660	11900	35800	18900	4680	4220	3310	11200
3	7810	8850	39800	30400	9680	10800	51900	17500	4530	4050	3500	8680
4	6440	11500	38500	55100	9320	10100	43200	16700	4570	3950	e2910	7070
5	6450	13800	35800	53500	8930	9760	46200	15500	4670	4060	e3120	5980
6	5910	16600	31400	67800	8480	9230	45100	14400	4420	5140	e3120	4820
7	5590	15700	26500	68500	8260	9750	46500	12900	4370	5010	e3310	3840
8	5580	13800	26200	54800	9150	18600	47500	10900	4140	4580	e3260	3760
9	4980	12700	27300	50500	18200	21000	44800	9470	3940	4240	3380	4030
10	5260	11500	27100	41500	27300	18300	40900	8450	3930	4300	3380	4180
11	5280	10400	28200	39400	25300	16500	37000	7540	5210	3710	3070	3770
12	5540	9780	28300	49000	21600	16000	31500	7290	5110	4390	2530	3690
13	5610	9650	28300	68600	18700	13500	24900	6970	4630	3610	2510	3900
14	5320	8260	27600	76400	16700	12400	20400	7270	4130	3590	2780	3820
15	5680	7850	26100	70600	27600	11200	17600	8890	4060	3770	3150	3830
16	5960	7700	23700	61500	32900	10500	14700	9980	4760	3770	3680	3720
17	6150	7070	21000	54000	32800	9020	12500	9360	5180	3980	3480	3640
18	5650	6950	18100	46500	27400	9120	11000	8620	5150	5520	3340	3400
19	7310	7900	16300	38800	23300	8880	10200	7990	5430	5710	3160	3710
20	8580	8850	14700	33800	23600	10400	9380	7640	5320	4820	3050	4620
21	9550	9250	12200	30900	23200	16300	9450	7410	4870	4330	3110	4460
22	8730	9640	12200	26500	23300	19000	9430	7080	4530	4080	3170	3980
23	8260	9580	16600	24000	22600	18700	10500	6710	4300	3890	3100	3850
24	7810	9560	39600	21500	20800	21900	16100	6220	4030	3600	3310	3970
25	8370	10300	33900	22500	18900	21600	18700	5850	3770	3820	3510	4120
26	8700	11500	32800	21200	18100	20000	19500	5350	3670	4350	3420	4590
27	8140	12200	34500	19700	16500	19000	20400	5030	3890	5070	3520	9220
28	7390	12400	33700	18700	14700	19800	21900	4900	3850	5930	3470	9350
29	6190	16700	29700	17500	---	24600	20200	5180	4030	5260	3440	8000
30	6220	17200	25800	14300	---	27300	18600	5220	3850	4620	3720	7240
31	8330	---	21100	12400	---	27900	---	5150	---	4150	8210	---
TOTAL	216410	324230	841800	1237000	527580	486060	782460	289870	134040	136060	105850	163640
MEAN	6981	10810	27150	39900	18840	15680	26080	9351	4468	4389	3415	5455
MAX	10700	17200	40500	76400	32900	27900	51900	19500	5430	5930	8210	13200
MIN	4980	6950	12200	12400	8260	8880	9380	4900	3670	3590	2510	3400
CFSM	0.91	1.41	3.54	5.20	2.46	2.04	3.40	1.22	0.58	0.57	0.45	0.71
IN.	1.05	1.57	4.08	6.00	2.56	2.36	3.79	1.41	0.65	0.66	0.51	0.79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2005, BY WATER YEAR (WY)

MEAN	7034	12350	17290	17820	17740	26250	24810	15680	9920	6256	4743	5446
MAX	28650	33760	38040	53560	40460	63020	58110	36220	35340	26090	16890	34760
(WY)	1991	1986	1978	1937	1976	1936	1940	1943	1989	1972	1994	2004
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

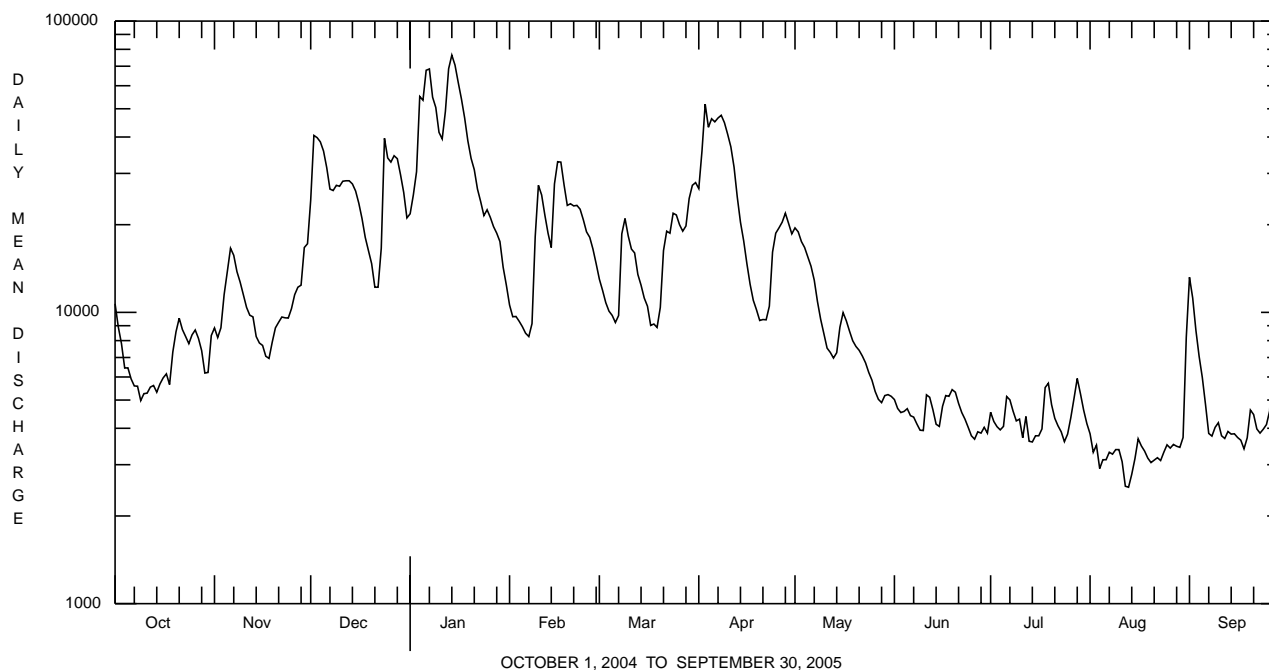
03031500 ALLEGHENY RIVER AT PARKER, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1933 - 2005	
ANNUAL TOTAL	7147300		5245000			
ANNUAL MEAN	19530		14370		13760	
HIGHEST ANNUAL MEAN					21360	
LOWEST ANNUAL MEAN					8175	
HIGHEST DAILY MEAN	105000	Sep 18	76400	Jan 14	160000	Jan 22 1959
LOWEST DAILY MEAN	3560	Jul 9	2510	Aug 13	454	Jul 28 1934
ANNUAL SEVEN-DAY MINIMUM	4040	Jul 4	2970	Aug 9	508	Jul 25 1934
MAXIMUM PEAK FLOW			82900	Jan 14	ab 175000	Jan 22 1959
MAXIMUM PEAK STAGE			14.74	Jan 14	c 29.60	Jan 21 1959
INSTANTANEOUS LOW FLOW					409	Jul 30 1934
ANNUAL RUNOFF (CFSM)	2.55		1.87		1.79	
ANNUAL RUNOFF (INCHES)	34.66		25.44		24.36	
10 PERCENT EXCEEDS	39200		32800		32000	
50 PERCENT EXCEEDS	14800		9120		8950	
90 PERCENT EXCEEDS	5980		3710		2270	

a About.

b From rating curve extended above 137,000 ft³/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.--Some values for "dissolved" parameters exceed values for the corresponding "total" parameter. These results are within the limits of analytical precision and methods.

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 2004 TO SEPTEMBER 2005

Date	Time	Agency collecting sample, code (00027)	Agency analyzing sample, code (00028)	Instantaneous discharge, cfs (00061)	Pressure, osmotic water, unfltrd mosm/kg (82550)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)	Specif. conductance, wat unfl lab, µS/cm 25 degC (90095)	Specif. conductance, wat unfl lab, µS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water unfltrd recover-able, mg/L (00916)	
OCT 2004	26...	1040	1028	9813	8570	2.0	9.0	7.2	7.6	238	237	12.0	76	20.9
NOV	18...	1315	1028	9813	6650	4.0	14.3	8.1	7.8	220	222	8.5	77	21.3
DEC	14...	1200	1028	9813	27600	3.0	12.2	6.8	7.6	144	149	4.0	48	13.7
JAN 2005	26...	1130	1028	9813	21100	3.0	14.0	6.8	7.8	140	140	.5	47	13.9
Date		Magnesium, water, unfltrd recover-able, mg/L (00927)	ANC, wat unfl fixed end pt, lab, mg/L as CaCO3 (00417)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, unfltrd, mg/L (00951)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 105degC wat flt mg/L (00515)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia, water, unfltrd as N mg/L (00610)	Nitrate, water, unfltrd as N mg/L (00620)	Nitrite, water, unfltrd as N mg/L (00615)	Orthophosphate, water, unfltrd as P mg/L (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfltrd mg/L (00600)
OCT 2004	26...	5.8	45	17.1	<.2	39.6	164	2	<.020	.27	<.040	.01	.017	.55
NOV	18...	5.7	48	15.5	<.2	31.8	306	2	<.020	.26	<.040	<.01	.015	.43
DEC	14...	3.4	33	10.8	<.2	16.2	110	16	.030	.42	<.040	.02	.020	.64
JAN 2005	26...	2.9	32	12.4	<.2	13.4	100	8	.100	.57	<.040	.02	.023	.70
Date		BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Fecal coliform, M-FC col/100 mL (31616)	Aluminum, water, unfltrd, µg/L (01106)	Aluminum, water, recover-able, µg/L (01105)	Arsenic, water, fltrd, µg/L (01000)	Cadmium, water, fltrd, µg/L (01025)	Copper, water, fltrd, µg/L (01040)	Copper, water, recover-able, µg/L (01042)	Iron, water, fltrd, µg/L (01046)	Iron, water, recover-able, µg/L (01045)	Lead, water, fltrd, µg/L (01049)	Lead, water, recover-able, µg/L (01051)	Manganese, water, fltrd, µg/L (01056)
OCT 2004	26...	1.6	140	130	180	<4.0	<.20	<4	10	30	450	<1.0	<1.0	320
NOV	18...	1.0	80	30	70	<4.0	<.20	<4	<4	120	270	<1.0	<1.0	220
DEC	14...	1.0	60	30	240	<4.0	<.20	<4	<4	90	480	<1.0	<1.0	100
JAN 2005	26...	.9	60	140	360	<4.0	<.20	<4	<4	210	520	<1.0	<1.0	40
Date						Manganese, water, unfltrd recover-able, µg/L (01055)	Nickel, water, fltrd, µg/L (01065)	Nickel, water, unfltrd recover-able, µg/L (01067)	Zinc, water, fltrd, µg/L (01090)	Zinc, water, unfltrd recover-able, µg/L (01092)	Phenolic compounds, water, unfltrd µg/L (32730)			
OCT 2004	26...					350	8.0	8.5	<5.0	7.3	<5			
NOV	18...					230	<4.0	<4.0	<5.0	<5.0	8			
DEC	14...					130	<4.0	<4.0	<5.0	<5.0	<5			
JAN 2005	26...					70	<4.0	<4.0	<5.0	6.4	<5			

OHIO RIVER MAIN STEM

03031500 ALLEGHENY RIVER AT PARKER, PA--Continued

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATES

REMARKS.--Samples were collected using a D-Frame net with a mesh size of 500 µm. Samples represent counts per 200 animal (approximate) subsamples.

Date	12/16/03
Benthic macroinvertebrate	Count
Platyhelminthes	
Turbellaria (FLATWORMS)	
Tricladida	
Planariidae	3
Nematoda (NEMATODES)	4
Nemertea (PROBOSCIS WORMS)	
Enopla	
Hoplonemertea	
Tetrastemmatidae	
<i>Prostoma</i>	1
Mollusca	
Gastropoda (SNAILS)	2
Basommatophora	
Ancyliidae	
<i>Ferrissia</i>	2
Hydrobiidae	1
Amnicola	6
Lymnaeidae	
<i>Fossaria</i>	10
Physidae	
<i>Physa</i>	34
Planorbidae	
<i>Gyraulus</i>	2
<i>Planorbella</i>	3
Bivalvia (CLAMS)	
Veneroidea	
Sphaeriidae	
<i>Pisidium</i>	15
Annelida	
Hirudinea (LEECHES)	1
Oligochaeta (AQUATIC EARTHWORMS)	
Tubificida	
Enchytraeidae	11
Naididae	1
Tubificidae	162
Arthropoda	
Crustacea	
Amphipoda (SCUDS)	
Gammaridae	
<i>Gammarus</i>	35
Isopoda (AQUATIC SOWBUGS)	
Asellidae	
<i>Caecidotea</i>	53

OHIO RIVER MAIN STEM

03031500 ALLEGHENY RIVER AT PARKER, PA--Continued

BIOLOGICAL DATA
BENTHIC MACROINVERTEBRATES--Continued

Date	12/16/03
Benthic macroinvertebrate	Count
Insecta	
Ephemeroptera (MAYFLIES)	
Baetidae	
<i>Baetis</i>	1
Caenidae	
<i>Caenis</i>	1
Ephemerellidae	
<i>Ephemerella</i>	24
<i>Eurylophella</i>	1
Ephemeridae	
<i>Hexagenia</i>	1
Heptageniidae	
<i>Stenonema</i>	2
Isonychiidae	
<i>Isonychia</i>	5
Plecoptera (STONEFLIES)	
Capniidae	
<i>Allocapnia</i>	1
Taeniopterygidae	
<i>Taenionema</i>	1
<i>Taeniopteryx</i>	2
Trichoptera (CADDISFLIES)	
Limnephilidae	
<i>Pycnopsyche</i>	3
Polycentropodidae	
<i>Neureclipsis</i>	1
Coleoptera (BEETLES)	
Elmidae (RIFFLE BEETLES)	
<i>Dubiraphia</i>	1
Hydrophilidae	
<i>Berosus</i>	1
Diptera (TRUE FLIES)	
Ceratopogonidae (BITING MIDGES)	
<i>Probezzia</i>	5
Chironomidae (MIDGES)	21
Empididae (DANCE FLIES)	
<i>Chelifera</i>	2
Total Organisms	419
Total Taxa	35