

OHIO RIVER MAIN STEM

03036500 ALLEGHENY RIVER AT KITTANNING, PA
(Pennsylvania Water-Quality Network Station)

LOCATION.--Lat 40°49'13", long 79°31'54", Armstrong County, Hydrologic Unit 05010006, on right bank 600 ft upstream from dam at lock 7, 3,000 ft upstream from bridge on SR 1038 at Kittanning, 5.7 mi upstream from Crooked Creek, and 9.7 mi downstream from Mahoning Creek, at mile 45.8.

DRAINAGE AREA.--8,973 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1904 to September 1928, October 1934 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 873: Drainage area. WSP 1305: 1906 (M), 1914, 1925. WSP 1435: 1936-37, 1939.

GAGE.--Water-stage recorder and concrete dam control. Datum of gage is 773.40 ft above National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Sept. 30, 1928, nonrecording gage at site 4,000 ft downstream at different datum. Oct. 1, 1934 to Apr. 19, 1939, nonrecording gage, Apr. 20, 1939 to Sept. 27, 1990, water-stage recorder at present site at different datum.

REMARKS.--Records good except those for estimated daily discharges and those below 2,000 ft³/s, which are poor. Sharp rises and drops in discharge during periods of low flow may be caused by hydroelectric power production. Flow regulated since 1924 by Piney Reservoir, since December 1940 by Tionesta Lake, since June 1941 by Mahoning Creek 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.

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	3320	5430	17800	11500	40400	12600	37900	25900	17500	8600	9350	2800
2	3340	5190	18900	10800	51800	11700	34700	27500	17600	7640	6500	2960
3	3020	5320	16500	9960	48100	12600	33500	30800	15600	6220	5780	3080
4	2840	5540	14400	9530	46400	17400	38900	27800	13300	5190	3970	3820
5	2680	5780	12900	8820	43600	19700	36100	26900	12900	3850	3530	3180
6	3010	5470	11900	7380	37500	15700	32500	24700	23600	4320	3480	3200
7	2370	4910	11100	7650	34300	14900	28300	22300	37900	3750	2750	3020
8	2650	4450	10000	7510	31800	14400	25300	18600	32400	4250	2920	2910
9	2530	4200	9070	7510	28900	14200	23700	18300	34200	4560	2470	3250
10	2720	4760	8970	7190	25500	13300	23800	20500	31400	4540	3540	3490
11	3040	3940	7950	7530	26500	13200	23500	20800	27500	4250	2860	3980
12	3290	3940	6650	8110	29900	13200	23100	21400	24300	3900	3120	3090
13	2700	4380	6740	8050	25400	13100	21500	67200	21500	3620	4000	3040
14	2910	3770	7010	e8000	23600	12600	25600	83400	22000	2920	3580	3010
15	3030	3350	8040	e7770	20600	11800	47600	72300	30600	2920	3610	3490
16	3040	3440	10200	e7940	17500	12300	52900	62100	22900	2910	3330	4590
17	3400	3370	14700	e8020	16000	13700	41000	56300	19900	2800	4360	5890
18	3300	3380	33600	7980	15700	14300	35200	61600	18300	2990	4030	5320
19	3500	3290	40900	6920	14800	12300	37000	64700	18400	3280	3460	4080
20	3900	3430	33300	6180	14400	13000	35700	56800	16900	3920	3060	4160
21	3240	3920	30600	6090	14200	16100	31800	51900	14900	3000	3810	4040
22	3020	4750	28300	6870	17900	17800	30300	46100	11800	3220	3200	3130
23	3570	4830	24800	6910	16500	17300	27900	41000	9820	4050	4000	3710
24	8330	4360	25900	7550	14900	15100	24200	34900	8290	4230	5180	2840
25	9340	5000	30800	14600	14100	15100	21200	32600	7660	3660	4640	3040
26	7970	9010	27600	20000	14000	20000	18300	27500	6940	3780	4330	3040
27	6980	11300	23900	20500	13900	36900	15500	24700	6570	4160	4190	4850
28	6560	10300	20900	19100	14000	36900	14800	23000	7240	5850	3620	6060
29	7380	11000	18800	17500	---	33400	20200	19200	7770	5180	2770	6050
30	7430	13000	15400	19900	---	34700	25600	15600	9010	10100	2810	4770
31	6350	---	13300	30900	---	42200	---	18100	---	12100	2680	---
TOTAL	130760	164810	560930	334270	712200	561500	887600	1144500	548700	145760	120930	113890
MEAN	4218	5494	18090	10780	25440	18110	29590	36920	18290	4702	3901	3796
MAX	9340	13000	40900	30900	51800	42200	52900	83400	37900	12100	9350	6060
MIN	2370	3290	6650	6090	13900	11700	14800	15600	6570	2800	2470	2800
CFSM	0.47	0.61	2.02	1.20	2.83	2.02	3.30	4.11	2.04	0.52	0.43	0.42
IN.	0.54	0.68	2.33	1.39	2.95	2.33	3.68	4.74	2.27	0.60	0.50	0.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2002, BY WATER YEAR (WY)

MEAN	8321	14010	18900	20850	21040	31840	27740	18450	11340	6920	5080	5499
MAX	31750	37830	55850	62840	45020	74110	66140	43650	40230	28200	19250	23500
(WY)	1991	1986	1928	1937	1990	1936	1940	1919	1989	1972	1977	1926
MIN	848	1155	1636	2752	4688	8342	6585	4860	2893	1511	1274	930
(WY)	1924	1909	1961	1961	1963	1969	1946	1941	1936	1966	1910	1909

e Estimated.

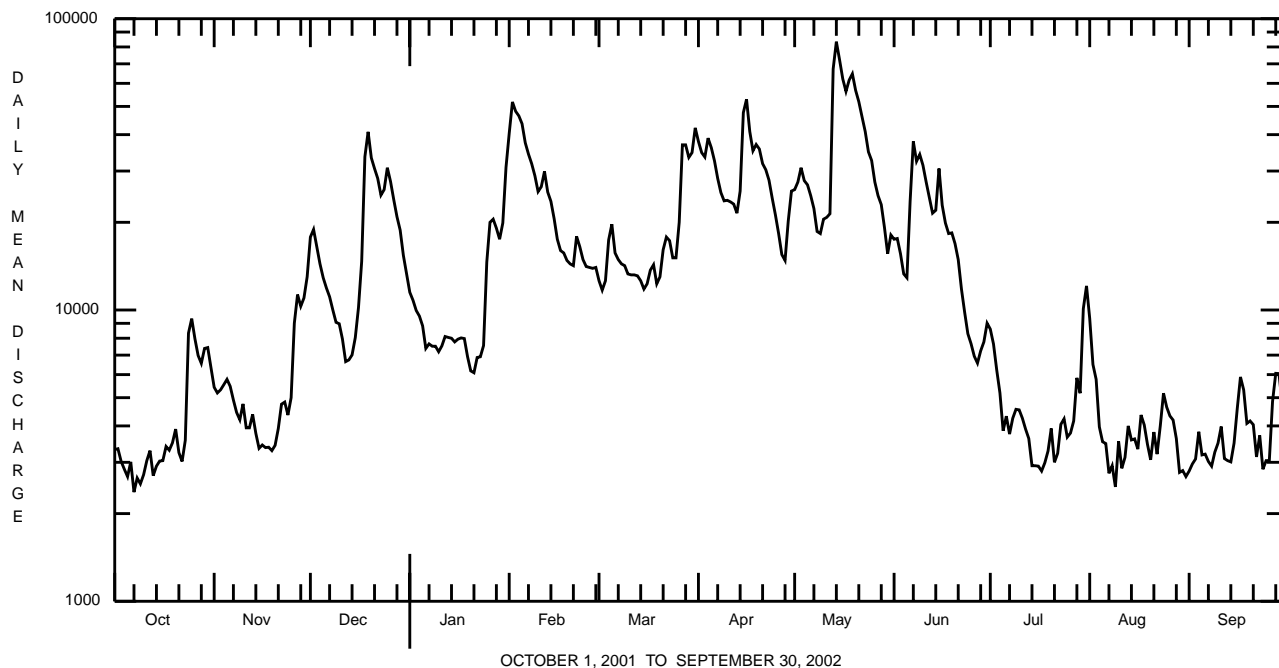
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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1904 - 2002	
ANNUAL TOTAL	3815460		5425850			
ANNUAL MEAN	10450		14870		15810	
HIGHEST ANNUAL MEAN					22400	
LOWEST ANNUAL MEAN					10080	
HIGHEST DAILY MEAN	48600	Feb 16	83400	May 14	253000	Mar 26 1913
LOWEST DAILY MEAN	2080	Sep 10	2370	Oct 7	570	Sep 15 1913 ^a
ANNUAL SEVEN-DAY MINIMUM	2540	Sep 7	2690	Oct 4	610	Sep 11 1913
MAXIMUM PEAK FLOW			85800	May 14	269000	Mar 26 1913
MAXIMUM PEAK STAGE			17.11	May 14	b30.70	Mar 26 1913
ANNUAL RUNOFF (CFSM)	1.16		1.66		1.76	
ANNUAL RUNOFF (INCHES)	15.82		22.49		23.94	
10 PERCENT EXCEEDS	25900		33800		36900	
50 PERCENT EXCEEDS	6510		9820		10000	
90 PERCENT EXCEEDS	2930		3050		2260	

^a Also Sept. 16, 17, 1913.

^b From Floodmark, site and datum then in use.



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03036500 ALLEGHENY RIVER AT KITTANNING, 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 (CODE NUMBER) (00028)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (µS/CM) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (µS/CM) (90095)	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)
JUN 2002 19...	1500	9813	17580	40	10.0	7.5	143	164	20.0	57	14.3	5.1	28
AUG 28...	1530	9813	3650	40	7.8	8.0	301	257	25.0	94	25.3	7.4	42

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)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COPPER, TOTAL RECOV-ERABLE (µG/L AS CU) (01042)	CYANIDE AMEN-ABLE TO CHLOR-INATION UNFLTRD (MG/L) (00722)
JUN 2002 19...	<.2	33.2	102	22	<.020	.34	<.040	.60	.03	.030	3.0	<10	<1.00
AUG 28...	<.2	51.3	208	12	--	.14	<.040	.56	.02	--	--	<10	<1.00

Date	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)	NICKEL, TOTAL RECOV-ERABLE (µG/L AS NI) (01067)	ZINC, TOTAL RECOV-ERABLE (µG/L AS ZN) (01092)	PHENOLS TOTAL (µG/L) (32730)
JUN 2002 19...	810	<1.0	250	<50	10	<5
AUG 28...	240	<1.0	90	<50	<10	<5