

OHIO RIVER MAIN STEM

03036500 ALLEGHENY RIVER AT KITTANNING, PA

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.

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 sea level (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.--No estimated daily discharges. Records good except those below 1,500 ft³/s, which are poor. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6470	2380	13800	8550	6340	43600	8720	10600	10500	10500	7760	2870
2	5680	3600	12900	7180	6010	41900	7820	10500	11000	9320	8850	2420
3	2820	12700	12700	8100	5950	40200	9760	11000	11100	7030	12000	2670
4	2960	21500	12600	22600	5670	35400	40800	11400	9950	8090	17100	2550
5	2490	19600	13500	40600	5500	27200	55800	11100	8240	7630	18600	3120
6	2640	17300	14200	37700	5380	23900	44000	11100	8420	7590	14400	2600
7	3310	14400	16800	37100	5380	16300	37900	9650	10300	6350	18700	2610
8	2740	12400	15700	34500	5000	14200	43200	8570	10400	5060	21900	2930
9	2760	11000	15000	27300	4840	13600	65700	8460	8890	3890	18900	2910
10	3030	9150	12700	23900	5330	11500	56500	7540	7800	4180	15200	4350
11	2950	8070	14200	22300	6410	11800	49400	8560	6430	5330	13300	3330
12	2870	6860	16100	21000	6640	10400	45000	9260	6810	6290	11200	3720
13	3020	6720	16100	20700	7930	11200	38200	10400	9130	5750	10300	4210
14	3280	6420	18200	20600	14100	10900	31500	10100	15500	4930	8570	4670
15	4120	5600	30200	18000	15800	9750	27300	9720	16500	4310	8490	4750
16	4440	5350	27700	15300	17000	10200	24700	9260	18900	3960	8220	4120
17	4200	4970	26400	11600	16400	13400	23400	8610	21600	4170	7540	5060
18	4340	4770	24800	8500	16200	15700	22000	8290	21100	5400	5540	5250
19	3990	4710	23400	9820	15500	14600	19000	10600	19300	4880	5370	5150
20	3830	4110	20700	10700	13700	13400	16600	30600	21100	3880	5430	4000
21	3200	3840	21400	9930	12100	14700	16900	29300	20100	3900	4780	4730
22	2750	3920	20900	6680	13200	17900	24800	26000	19800	4600	4950	3900
23	3020	4140	18400	6500	13500	17100	31700	26500	17400	3090	4480	4670
24	2690	4510	15100	7100	18600	15100	31200	29500	15800	2860	4910	8420
25	2990	4510	12600	7630	34100	13000	30800	29500	12600	5120	5120	9550
26	4920	7020	10500	7550	50900	11200	28200	26100	11900	3410	3790	8240
27	5160	17600	10900	6270	50000	11000	24100	23500	14500	3510	3540	7940
28	4840	19400	9860	6040	50800	10900	21700	20500	17600	4420	3680	6310
29	4200	17300	8890	5390	48200	10300	18300	17100	14200	4160	3940	5560
30	3450	14300	7970	5550	---	10100	14200	15500	13100	4490	2620	5070
31	2640	---	8750	6120	---	8650	---	13200	---	5210	3070	---
TOTAL	111800	278150	502970	480810	476480	529100	909200	472020	409970	163310	282250	137680
MEAN	3606	9272	16220	15510	16430	17070	30310	15230	13670	5268	9105	4589
MAX	6470	21500	30200	40600	50900	43600	65700	30600	21600	10500	21900	9550
MIN	2490	2380	7970	5390	4840	8650	7820	7540	6430	2860	2620	2420
CFSM	.40	1.03	1.81	1.73	1.83	1.90	3.38	1.70	1.52	.59	1.01	.51
IN.	.46	1.15	2.09	1.99	1.98	2.19	3.77	1.96	1.70	.68	1.17	.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2000, BY WATER YEAR (WY)

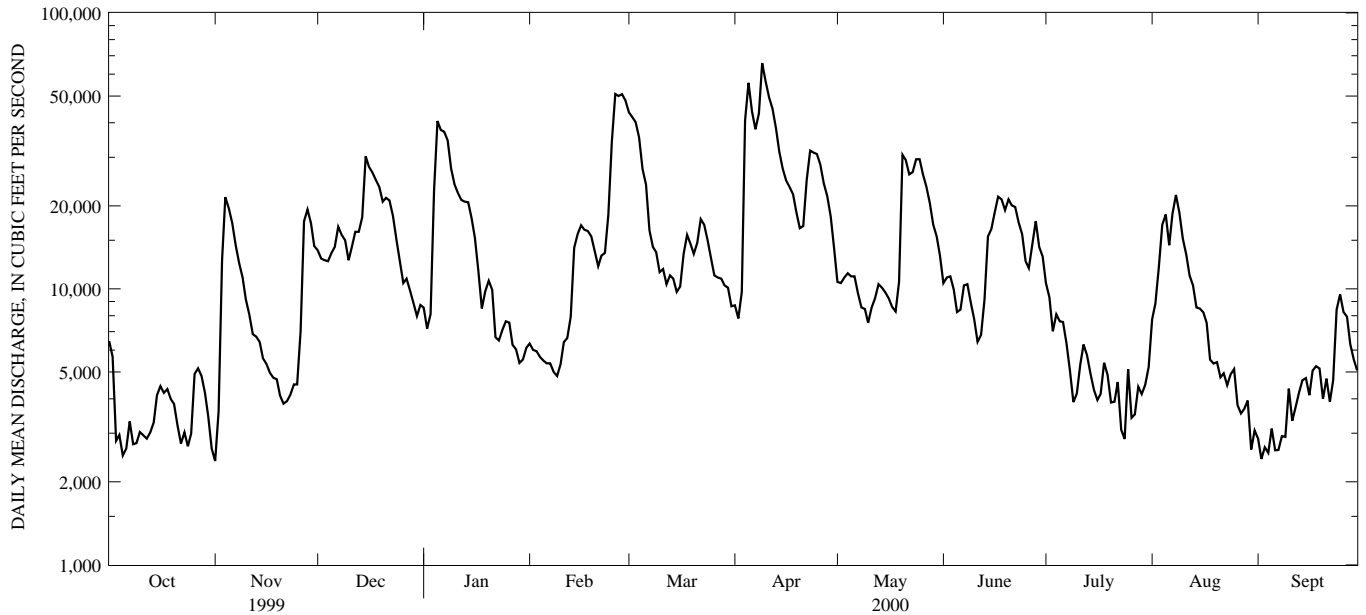
MEAN	8363	14180	18920	21120	20950	32150	27750	18350	11310	6983	5115	5544
MAX	31750	37830	55850	62840	45020	74110	66140	43650	40230	28200	19250	23500
(WY)	1991	1986	1928	1937	1990	1936	1940	1919	1989	1972	1977	1926
MIN	848	1155	1636	2752	4688	8342	6585	4860	2893	1511	1274	930
(WY)	1924	1909	1961	1961	1963	1969	1946	1941	1936	1966	1910	1909

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03036500 ALLEGHENY RIVER AT KITTANNING, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1904 - 2000	
ANNUAL TOTAL	4219410		4753740			
ANNUAL MEAN	11560		12990		15870	
HIGHEST ANNUAL MEAN					22400	
LOWEST ANNUAL MEAN					10080	
HIGHEST DAILY MEAN	82900	Jan 24	65700	Apr 9	253000	Mar 26 1913
LOWEST DAILY MEAN	1530	Jan 3	2380	Nov 1	570	Sep 15 1913 ^a
ANNUAL SEVEN-DAY MINIMUM	2170	Jun 18	2690	Sep 1	610	Sep 11 1913
INSTANTANEOUS PEAK FLOW			68500	Apr 9	269000	Mar 26 1913
INSTANTANEOUS PEAK STAGE			15.96	Apr 9	30.70	Mar 26 1913
ANNUAL RUNOFF (CFMS)	1.29		1.45		1.77	
ANNUAL RUNOFF (INCHES)	17.49		19.71		24.03	
10 PERCENT EXCEEDS	26400		27200		37100	
50 PERCENT EXCEEDS	6570		9840		10000	
90 PERCENT EXCEEDS	2460		3530		2230	

a Also Sept. 16, 17, 1913.
 b From Floodmark, site and datum then in use.



1-YEAR HYDROGRAPH
 OCTOBER 1, 1999 TO SEPTEMBER 30, 2000