

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. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4440	4820	18900	7730	16200	13500	19400	12100	9210	4920	2920	5370
2	4440	4800	19200	7000	16500	11600	18200	11200	9200	5270	3610	3890
3	4240	4830	17900	6960	16100	10800	16100	10000	12400	4550	3340	3620
4	4440	5070	15100	7130	14500	9540	15500	9140	12800	4520	3240	3080
5	5100	5020	14100	6780	13100	9810	15400	7810	12000	4430	3610	3050
6	7320	4830	13200	6100	12400	9010	16000	6510	10700	3730	4360	2850
7	12300	4870	12900	6680	12200	8850	17500	5770	9240	3350	3780	2400
8	14500	4840	11700	7380	11500	8430	20400	5770	8860	3790	3370	2710
9	14400	4880	11000	7340	12700	8490	21900	6170	7340	3630	3030	2410
10	16900	5370	10300	5690	26400	8990	28800	5920	5440	3560	3400	2080
11	19100	6390	9930	6030	48500	8060	33600	5910	5190	3030	2650	2710
12	18800	7270	12800	6790	41000	7570	33600	6050	5290	3130	2910	2810
13	18100	7530	17900	6310	37500	9760	32100	8600	5020	2870	2880	2660
14	15500	7220	18300	6200	35200	18400	29600	9220	4560	3030	2600	3670
15	10300	6590	16900	6230	42800	23600	27300	9800	3700	2970	2340	2770
16	8780	6100	16200	6410	48600	23000	36100	9180	3900	2820	2340	3420
17	8270	5800	28000	6850	45100	22600	42000	7630	3120	3280	2830	2790
18	6580	5590	47100	7790	39900	23000	38200	7080	3730	3350	2660	2970
19	6490	5610	39100	9230	33900	21600	32700	6030	4330	3150	2510	3530
20	7130	5890	37700	8280	27100	19300	27700	5090	3530	2940	2520	3410
21	6590	6060	33900	7750	24200	18900	25600	4330	3540	3580	2600	3590
22	5730	6000	29400	6380	20900	32300	25300	5780	5920	3360	2820	3980
23	5510	5700	24100	6530	19000	36500	26700	7970	10200	3570	3000	2810
24	5120	5280	18400	6190	14100	31800	26600	10800	10200	4020	2770	2940
25	5010	5280	15200	6270	13400	27700	25900	12100	9430	3250	3000	3200
26	5170	6120	11600	6020	13200	24600	24100	13100	8820	3380	2750	3650
27	5220	9030	9470	5900	15500	22400	22000	13600	6600	3640	3430	3430
28	5510	15100	11300	5160	14800	20100	17400	12700	5220	3630	4280	3470
29	5470	17200	8990	4360	---	16600	15900	11800	4070	3250	3760	3210
30	5200	17200	8390	5600	---	16700	13200	11100	3700	3030	3490	3070
31	5130	---	8240	11300	---	16400	---	10100	---	2930	3650	---
TOTAL	266790	206290	567220	210370	686300	539910	744800	268360	207260	109960	96450	95550
MEAN	8606	6876	18300	6786	24510	17420	24830	8657	6909	3547	3111	3185
MAX	19100	17200	47100	11300	48600	36500	42000	13600	12800	5270	4360	5370
MIN	4240	4800	8240	4360	11500	7570	13200	4330	3120	2820	2340	2080
CFSM	.96	.77	2.04	.76	2.73	1.94	2.77	.96	.77	.40	.35	.35
IN.	1.11	.86	2.35	.87	2.85	2.24	3.09	1.11	.86	.46	.40	.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2001, BY WATER YEAR (WY)

MEAN	8366	14100	18910	20960	20990	31990	27720	18240	11260	6945	5093	5518
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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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1904 - 2001	
ANNUAL TOTAL	4901120		3999260			
ANNUAL MEAN	13390		10960		15820	
HIGHEST ANNUAL MEAN					22400	1928
LOWEST ANNUAL MEAN					10080	1999
HIGHEST DAILY MEAN	65700	Apr 9	48600	Feb 16	253000	Mar 26 1913
LOWEST DAILY MEAN	2420	Sep 2	2080	Sep 10	570	Sep 15 1913 ^a
ANNUAL SEVEN-DAY MINIMUM	2690	Sep 1	2540	Sep 7	610	Sep 11 1913
MAXIMUM PEAK FLOW			56800	Feb 11	269000	Mar 26 1913
MAXIMUM PEAK STAGE			15.18	Feb 11	30.70	Mar 26 1913
ANNUAL RUNOFF (CFMS)	1.49		1.22		1.76	
ANNUAL RUNOFF (INCHES)	20.32		16.58		23.95	
10 PERCENT EXCEEDS	28500		25400		37000	
50 PERCENT EXCEEDS	9880		7000		10000	
90 PERCENT EXCEEDS	4430		3030		2250	

^a Also Sept. 16, 17, 1913.

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

