

OHIO RIVER MAIN STEM

03025500 ALLEGHENY RIVER AT FRANKLIN, PA

LOCATION.--Lat 41°23'22", long 79°49'14", Venango County, Hydrologic Unit 05010003, on right bank at upstream side of Eighth Street bridge on U.S. Highway 322 at Franklin, 1,000 ft downstream from French Creek, at mile 124.4.

DRAINAGE AREA.--5,982 mi².

PERIOD OF RECORD.--October 1914 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at same site since April 1905 are contained in reports of U.S. Weather Bureau.

REVISED RECORDS.--WSP 743: Drainage area. WSP 783: 1913 (M). WSP 1003: 1920 (M). WSP 1305: 1926 (M), 1928-29 (M). WSP 1385: 1920, 1932.

GAGE.--Water-stage recorder. Datum of gage is 955.84 ft above sea level. Prior to Sept. 16, 1932, nonrecording gage, and Sept. 16-30, 1932, water-stage recorder, at present site at datum 2.00 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated since December 1940 by Tionesta Lake, since November 1949 by Chautauqua Lake (station 03013946), 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 25.0 ft, and that of Mar. 26, 1913 a stage of 24.6 ft, from graph based on gage readings, discharges about 200,000 ft³/s and 190,000 ft³/s, respectively, from rating curve extended above 111,000 ft³/s. Maximum discharge since at least 1864 is that of Mar. 17, 1865.

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	2870	3670	16900	e5400	e8000	9730	13400	8690	6280	2760	3060	3120
2	2790	3780	15900	e5000	e7500	8620	12300	7280	7890	3140	2980	2870
3	2950	3910	14300	e4800	e7000	7380	11800	6350	9330	3030	2980	2820
4	3240	3910	12700	e4600	e6500	6800	11400	5600	8540	2990	3400	2640
5	3970	3890	12200	e4400	e6200	6650	11200	4860	7930	2830	4140	2500
6	7160	3850	11500	e4300	e6000	6300	11400	4610	7270	2560	3590	2390
7	10500	3850	10300	e4300	e5800	6590	13100	4390	6520	2520	3180	2490
8	11200	3800	9690	e4200	e5800	6350	13700	4090	5650	2500	2820	2740
9	13200	3860	9190	e4100	e8200	6310	15500	4040	4530	2560	2700	2570
10	14800	4210	8530	e4000	e2900	6170	21800	4000	3420	2460	2710	2460
11	15900	4620	7820	e4000	29600	6010	25300	3830	3280	2390	2820	2470
12	16100	5060	11100	e4000	28400	5860	25000	5620	3430	2390	2730	2600
13	15000	5250	14200	e3950	28000	7400	23900	6460	3240	2370	2520	2690
14	10100	5000	13600	e3900	27000	13800	22800	7180	2930	2540	2480	3200
15	6580	4670	12300	e3800	33200	14500	21400	7270	2650	2510	2490	2680
16	5390	4420	11800	e4100	34000	13700	23600	6390	2480	2560	2600	2500
17	4230	4340	24300	e4400	31000	13800	24900	5810	2860	2760	2610	2720
18	4040	4390	28500	e4200	27500	13500	22300	4690	2870	2770	2620	2700
19	3800	4660	27000	e4000	22000	12000	19700	3730	2890	2750	2610	2810
20	3720	4840	26700	e3900	18700	11600	17000	3240	2780	2960	2700	3170
21	3720	4810	24200	e3800	15900	11900	15600	2970	3230	2970	2790	2960
22	3790	4750	21300	e3600	14300	16200	17700	4260	7550	3250	2730	2710
23	3580	4440	17600	e3500	12400	18100	19100	6300	8520	2870	2790	2720
24	3520	4340	15500	e3400	9770	17500	20000	7260	7650	2780	2830	2790
25	3660	4540	11400	e3400	9230	16400	18700	8440	6650	3040	2700	2880
26	3870	5330	9650	e3300	10800	15300	17400	10700	5640	3530	2800	2590
27	3940	10100	e8100	e3200	12100	13900	14300	9810	4350	3500	3300	2680
28	3970	14200	e7600	e3100	11200	12200	12900	9090	3080	3250	3250	2730
29	3870	14600	e7000	e3400	---	11600	10100	8540	2720	2940	3170	2800
30	3780	15700	e6400	e4300	---	11100	8980	7970	2570	2860	2930	2780
31	3730	---	e5800	e5700	---	13800	---	7200	---	2900	2880	---
TOTAL	198970	168790	433080	126050	462000	341070	516280	190670	148730	87240	89910	81780
MEAN	6418	5626	13970	4066	16500	11000	17210	6151	4958	2814	2900	2726
MAX	16100	15700	28500	5700	34000	18100	25300	10700	9330	3530	4140	3200
MIN	2790	3670	5800	3100	5800	5860	8980	2970	2480	2370	2480	2390
CFSM	1.07	.94	2.34	.68	2.76	1.84	2.88	1.03	.83	.47	.48	.46
IN.	1.24	1.05	2.69	.78	2.87	2.12	3.21	1.19	.92	.54	.56	.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2001, BY WATER YEAR (WY)

MEAN	5567	9985	13300	13860	13650	20850	19310	12020	7365	4417	3214	3534
MAX	22900	26030	33270	41420	32340	49850	49920	30070	24820	21440	13830	17730
(WY)	1991	1986	1928	1937	1976	1936	1940	1943	1989	1972	1977	1977
MIN	515	771	1125	1732	2929	6383	4203	2554	1106	555	414	435
(WY)	1931	1931	1961	1961	1963	1969	1946	1985	1934	1934	1930	1930

e Estimated.

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SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1915 - 2001	
ANNUAL TOTAL	3420240		2844570			
ANNUAL MEAN	9345		7793		10570	
HIGHEST ANNUAL MEAN					15560	1956
LOWEST ANNUAL MEAN					6482	1931
HIGHEST DAILY MEAN	42000	Apr 9	34000	Feb 16	130000	Mar 13 1920
LOWEST DAILY MEAN	1950	Sep 2	2370	Jul 13	335	Aug 21 1930
ANNUAL SEVEN-DAY MINIMUM	2100	Aug 28	2460	Jul 7	351	Aug 17 1930
MAXIMUM PEAK FLOW			35200	Feb 15	a138000	Mar 13 1920
MAXIMUM PEAK STAGE			9.99	Feb 15	b20.65	Mar 13 1920
ANNUAL RUNOFF (CFSM)	1.56		1.30		1.77	
ANNUAL RUNOFF (INCHES)	21.27		17.69		24.01	
10 PERCENT EXCEEDS	20800		16900		25200	
50 PERCENT EXCEEDS	6740		4620		6610	
90 PERCENT EXCEEDS	2870		2700		1410	

- a From rating curve extended above 111,000 ft³/s.
- b Maximum gage height observed, 26.0 ft, Feb. 27, 1917 (backwater from ice), also Feb. 26, 1926 (backwater from ice).

