

## 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 mi<sup>2</sup>.

**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 National Geodetic Vertical Datum of 1929. 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.**--No estimated daily discharges. Records good. 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 ft<sup>3</sup>/s and 190,000 ft<sup>3</sup>/s, respectively, from rating curve extended above 111,000 ft<sup>3</sup>/s. Maximum discharge since at least 1864 is that of Mar. 17, 1865.

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	2700	4450	14300	9540	33700	8220	24200	19000	12900	6540	6080	2910
2	2620	4070	13200	8550	36900	7880	24500	17900	12100	5120	4530	2820
3	2540	4180	11800	7720	36100	9390	27800	17400	11000	3990	3590	2860
4	2410	4330	10900	7070	35600	12400	30200	19600	9880	3440	3020	3140
5	2350	4160	9750	6250	32800	11400	27100	18700	8490	3330	2780	3220
6	2360	3840	8990	5870	30300	10500	24300	16900	15500	3280	2580	3120
7	2360	3690	8360	5840	28300	10100	21900	13700	16600	3200	2420	3050
8	2410	3220	7510	5780	26300	9970	19500	12700	21400	3150	2430	3030
9	2600	3120	7040	5700	22700	9480	17800	11900	22600	3060	2770	3140
10	2630	3120	6220	5740	21200	9380	19500	11800	21100	3320	2840	3360
11	2530	3110	5420	5900	22100	10000	18700	13300	19500	3020	2980	3190
12	2500	3050	4900	6240	20600	9910	17200	17800	17600	2630	3000	2970
13	2490	2900	4860	6470	18100	9790	16600	38900	16600	2380	3100	2900
14	2460	2880	5120	6400	16700	9380	21300	47300	14100	2330	2980	2990
15	2580	2820	6610	6200	14300	8840	27900	43900	10400	2240	3090	3410
16	2510	2790	8570	6440	12000	9390	26400	40600	9540	2260	3120	4290
17	2490	2720	9740	6300	11900	10000	20900	39800	10700	2540	3550	4160
18	3000	2650	19500	5930	11400	9690	23700	42900	12100	2770	3190	3800
19	3300	2590	21000	5520	10800	9070	26600	41000	12100	2760	2840	3390
20	3020	3040	20600	5240	10800	9040	24300	39900	11300	2730	3080	3260
21	2700	3930	21000	5420	11900	11200	23300	37100	9110	2960	3030	3020
22	2780	4250	19500	5520	12000	11700	22500	34100	7110	2660	3020	2890
23	3910	3860	18600	5320	11700	10700	19900	29400	5630	2860	3750	2790
24	5140	3540	23600	6480	11000	10200	17400	27800	5230	3090	3710	2680
25	4650	4920	23400	12600	10200	10600	14700	24000	5060	2730	3350	2700
26	4720	8140	20300	14300	9720	11500	12500	20100	5000	2460	3310	2840
27	4870	7560	17900	14100	9980	18600	10900	19600	4980	2790	3020	3250
28	6030	7620	16200	13200	9250	18200	11600	16100	5010	2760	2570	3980
29	6240	8410	13100	13400	---	18300	15900	13000	6290	6100	2360	3140
30	5790	11200	11600	16200	---	24300	18800	11400	6810	12000	2340	3140
31	5020	---	10900	22900	---	25700	---	10900	---	8610	2760	---
TOTAL	103710	130160	400490	258140	538350	364830	627900	768500	345740	113110	97190	95440
MEAN	3345	4339	12920	8327	19230	11770	20930	24790	11520	3649	3135	3181
MAX	6240	11200	23600	22900	36900	25700	30200	47300	22600	12000	6080	4290
MIN	2350	2590	4860	5240	9250	7880	10900	10900	4980	2240	2340	2680
CFSM	0.56	0.73	2.16	1.39	3.21	1.97	3.50	4.14	1.93	0.61	0.52	0.53
IN.	0.64	0.81	2.49	1.61	3.35	2.27	3.90	4.78	2.15	0.70	0.60	0.59

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2002, BY WATER YEAR (WY)

MEAN	5541	9921	13300	13790	13710	20750	19320	12160	7412	4408	3213	3530
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

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1915 - 2002	
ANNUAL TOTAL	2678090		3843560			
ANNUAL MEAN	7337		10530		10570	
HIGHEST ANNUAL MEAN					15560	1956
LOWEST ANNUAL MEAN					6482	1931
HIGHEST DAILY MEAN	34000	Feb 16	47300	May 14	130000	Mar 13 1920
LOWEST DAILY MEAN	2350	Oct 5	2240	Jul 15	335	Aug 21 1930
ANNUAL SEVEN-DAY MINIMUM	2430	Oct 3	2430	Oct 3	351	Aug 17 1930
MAXIMUM PEAK FLOW			48800	May 14	a138000	Mar 13 1920
MAXIMUM PEAK STAGE			11.95	May 14	b20.65	Mar 13 1920
ANNUAL RUNOFF (CFSM)	1.23		1.76		1.77	
ANNUAL RUNOFF (INCHES)	16.65		23.90		24.01	
10 PERCENT EXCEEDS	17600		23300		25100	
50 PERCENT EXCEEDS	4300		7110		6610	
90 PERCENT EXCEEDS	2590		2710		1420	

- a From rating curve extended above 111,000 ft<sup>3</sup>/s.
- b Maximum gage height observed, 26.0 ft, Feb. 27, 1917 (backwater from ice), also Feb. 26, 1926 (backwater from ice).

