

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3200	2200	7760	5470	e4300	32900	5200	6770	8030	5550	5430	1970
2	1620	3100	8810	5790	e4200	32300	5010	7370	7580	4430	6850	1950
3	e1680	13100	9690	7820	e4000	30300	5690	7550	7900	4030	12300	2310
4	e1950	15700	10000	24900	e3900	23200	16500	7980	6390	4380	14200	2510
5	2260	14600	10600	29800	e3800	19000	23600	8020	5490	4680	12700	2450
6	2470	12800	11900	30500	e3600	14100	21800	7430	6030	3990	10100	2450
7	2420	11400	13200	29500	e3500	10700	22500	6690	7690	3200	11900	2620
8	2310	10000	12900	25500	e3400	9640	30600	6170	6940	2610	10000	2680
9	2440	8380	10800	21200	e3300	8680	42000	5860	5930	2430	8760	2860
10	2410	7230	10500	18100	e3200	7730	36500	5970	5090	2690	8250	2860
11	2330	6150	12500	16500	e3700	7090	35900	6580	4670	3790	7380	2940
12	2260	5610	13600	17000	e4200	7040	30700	7640	4980	3970	7300	3010
13	2290	5360	12900	16000	e4700	7100	25700	8260	7710	3410	7050	3100
14	2680	5080	14300	14800	e5400	6920	22600	8160	9720	2670	6400	3030
15	3020	4780	19200	13600	e6000	6850	20100	7650	11700	2390	5700	3120
16	3160	4380	18500	10300	e7000	6960	17900	7120	14300	2530	4870	3550
17	3330	4150	18900	8220	e8000	8330	16500	6720	17300	2740	4350	3890
18	3220	3870	18100	9530	9050	8850	13800	5880	14400	2970	4030	3730
19	2870	3530	16100	9490	8400	8310	12900	18800	16700	2770	3820	3430
20	2590	3270	15500	9130	7890	7900	11000	25400	16500	2500	3650	3170
21	2240	3180	16000	7200	7230	7640	12900	22300	15300	2300	3480	3180
22	2170	3420	13700	5750	6950	7320	18700	21900	13700	2120	3140	3460
23	2160	3900	12400	e5300	8490	6910	19400	22300	12100	2080	2750	3820
24	2500	3830	10100	e5200	16300	6520	20500	22500	11000	3840	2790	4060
25	4090	3710	9000	e5100	26300	6070	20300	20700	8720	2290	2620	4260
26	4720	4300	8690	e5000	33000	5820	18500	19000	8920	2410	2500	4550
27	4350	8440	8550	e4900	34300	5610	17100	16700	9350	2580	2370	4020
28	3670	10100	7420	e4800	35300	5670	14100	13500	8320	2660	2250	3430
29	2920	9000	6840	e4700	34900	5620	11400	12000	7560	3080	2130	3120
30	2380	7860	6510	e4500	---	5480	8140	11200	6580	3290	2070	2970
31	2220	---	5450	e4400	---	5250	---	8560	---	4410	2030	---
TOTAL	83930	202430	370420	380000	304310	331810	577540	362680	286600	98790	183170	94500
MEAN	2707	6748	11950	12260	10490	10700	19250	11700	9553	3187	5909	3150
MAX	4720	15700	19200	30500	35300	32900	42000	25400	17300	5550	14200	4550
MIN	1620	2200	5450	4400	3200	5250	5010	5860	4670	2080	2030	1950
CFSM	.45	1.13	2.00	2.05	1.75	1.79	3.22	1.96	1.60	.53	.99	.53
IN.	.52	1.26	2.30	2.36	1.89	2.06	3.59	2.26	1.78	.61	1.14	.59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2000, BY WATER YEAR (WY)

MEAN	5557	10040	13290	13970	13620	20970	19330	12090	7393	4435	3218	3543
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

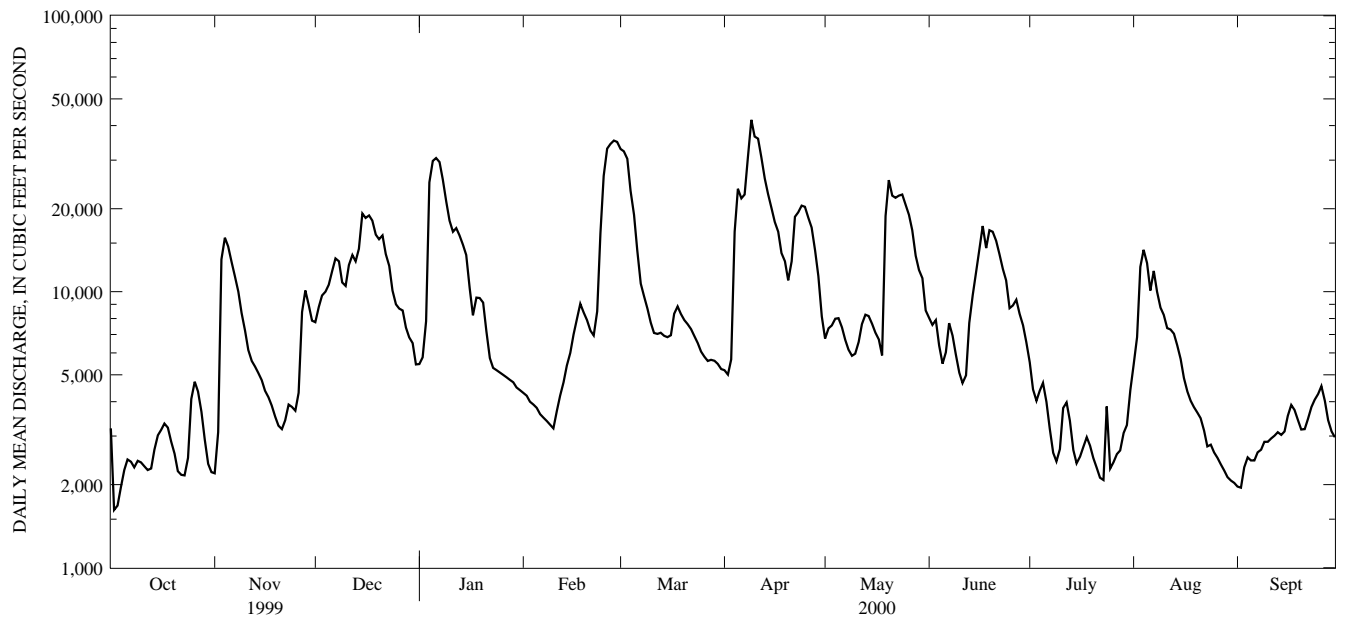
e Estimated.

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03025500 ALLEGHENY RIVER AT FRANKLIN, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR			FOR 2000 WATER YEAR			WATER YEARS 1915 - 2000	
ANNUAL TOTAL	2809150			3276180				
ANNUAL MEAN	7696			8951			10600	
HIGHEST ANNUAL MEAN							15560	
LOWEST ANNUAL MEAN							6482	
HIGHEST DAILY MEAN	43200	Jan 24		42000	Apr 9		130000	Mar 13 1920
LOWEST DAILY MEAN	1620	Oct 2		1620	Oct 2		335	Aug 21 1930
ANNUAL SEVEN-DAY MINIMUM	a2000	Jun 17		a2100	Oct 2		351	Aug 17 1930
INSTANTANEOUS PEAK FLOW				45200	Apr 9		b138000	Mar 13 1920
INSTANTANEOUS PEAK STAGE				11.47	Apr 9		c20.65	Mar 13 1920
ANNUAL RUNOFF (CFSM)	1.29			1.50			1.77	
ANNUAL RUNOFF (INCHES)	17.47			20.37			24.08	
10 PERCENT EXCEEDS	17800			19100			25200	
50 PERCENT EXCEEDS	4350			6700			6650	
90 PERCENT EXCEEDS	2140			2500			1400	

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



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