

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 by Allegheny Reservoir (station 03012520) 74 mi upstream, since 1965, by Chautauqua Lake (station 03013946) since 1941, by Tionesta Lake since 1940, by Union City Reservoir (station 03021518) since 1971, and by Woodcock Creek Lake (station 03022550) since January 1974. 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, discharge, 196,000 ft³/s and 191,000 ft³/s, respectively, from rating curve extended above 120,000 ft³/s. Maximum discharge since at least 1864 is that of Mar. 17, 1865.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2480	2830	2740	e2400	25500	e8000	11400	8970	4680	2010	2760	1970
2	2470	3200	2920	e2100	25400	e9000	13500	8240	4200	2670	2490	2050
3	2500	3210	2830	e2150	27900	e10000	15200	7240	4160	2150	2180	2070
4	2540	3070	2860	e2300	27400	e11500	16700	5960	3970	e1900	2180	2200
5	2450	2890	2830	e2400	28500	e11500	18000	4920	3650	e1800	2250	2260
6	2440	2880	2650	e2600	26700	e10000	19700	4760	3330	e2050	2150	2220
7	2560	3010	2640	e2500	24800	e8400	18500	4610	2990	e2400	2100	2270
8	3810	3250	2620	e2500	22900	e7600	17000	4550	2650	3110	2150	2240
9	3810	3390	2740	e2550	21100	e7000	17700	5230	2340	2700	2110	2440
10	3920	3580	2610	e2600	20700	e6600	24500	6590	2240	2580	2080	2140
11	3800	3810	2350	e2700	17400	e6000	22800	7880	2170	2450	2230	2100
12	3520	3620	2370	e2750	15500	e5600	23300	7990	2170	2350	2210	2070
13	3300	3310	2500	e2800	18700	e5200	26100	7660	2440	2250	2260	2020
14	2730	2900	2370	e2800	18600	e5000	24700	7200	2350	2060	2360	2010
15	2710	2270	2360	e2900	17300	e4600	19600	7580	2390	1920	2550	2050
16	2720	2120	2560	e3000	16100	e4500	16400	8170	2200	1980	2150	2250
17	2680	2010	2620	e3100	14500	e6200	14500	7970	1830	2400	e1900	2210
18	2670	2630	2720	e3150	15200	e9500	15900	6850	e1900	2650	e1800	2150
19	2760	2990	2740	e3200	14400	e15500	17600	7370	e1850	2770	1860	2110
20	2760	3030	2820	e3200	12800	14200	18600	6210	e1900	2730	1970	2060
21	2800	3040	3080	e5600	11500	13100	17000	5740	2180	2680	2200	2140
22	2790	3030	8320	e10500	10400	12700	16800	4930	2160	2760	2590	2310
23	2610	2910	10300	20000	9270	12800	16300	4420	2180	2900	2650	2220
24	2040	2690	8120	43200	8650	12300	18300	5190	2380	2970	2580	2290
25	2000	2660	6580	35100	8480	12100	17500	8690	2410	2900	2540	2550
26	2010	2710	5520	29100	7310	11700	16800	10600	2370	2740	2900	2520
27	2140	2690	4880	25800	6680	10800	15300	10400	2370	2520	3630	2470
28	2640	2660	4410	28700	7770	10200	13500	9100	2550	2460	2540	2430
29	2640	2640	3850	32400	---	10400	11500	7910	2730	2600	2130	2520
30	2610	2630	e3200	30300	---	10700	10300	7060	2570	2500	1920	3440
31	2590	---	e2750	27200	---	11000	---	5710	---	2530	1910	---
TOTAL	85500	87660	113860	341600	481460	293700	525000	215700	79310	76490	71330	67780
MEAN	2758	2922	3673	11020	17200	9474	17500	6958	2644	2467	2301	2259
MAX	3920	3810	10300	43200	28500	15500	26100	10600	4680	3110	3630	3440
MIN	2000	2010	2350	2100	6680	4500	10300	4420	1830	1800	1800	1970
CFSM	.46	.49	.61	1.84	2.87	1.58	2.93	1.16	.44	.41	.38	.38
IN.	.53	.55	.71	2.12	2.99	1.83	3.26	1.34	.49	.48	.44	.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1999, BY WATER YEAR (WY)

MEAN	5590	10070	13310	13990	13650	21090	19330	12090	7367	4450	3186	3548
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

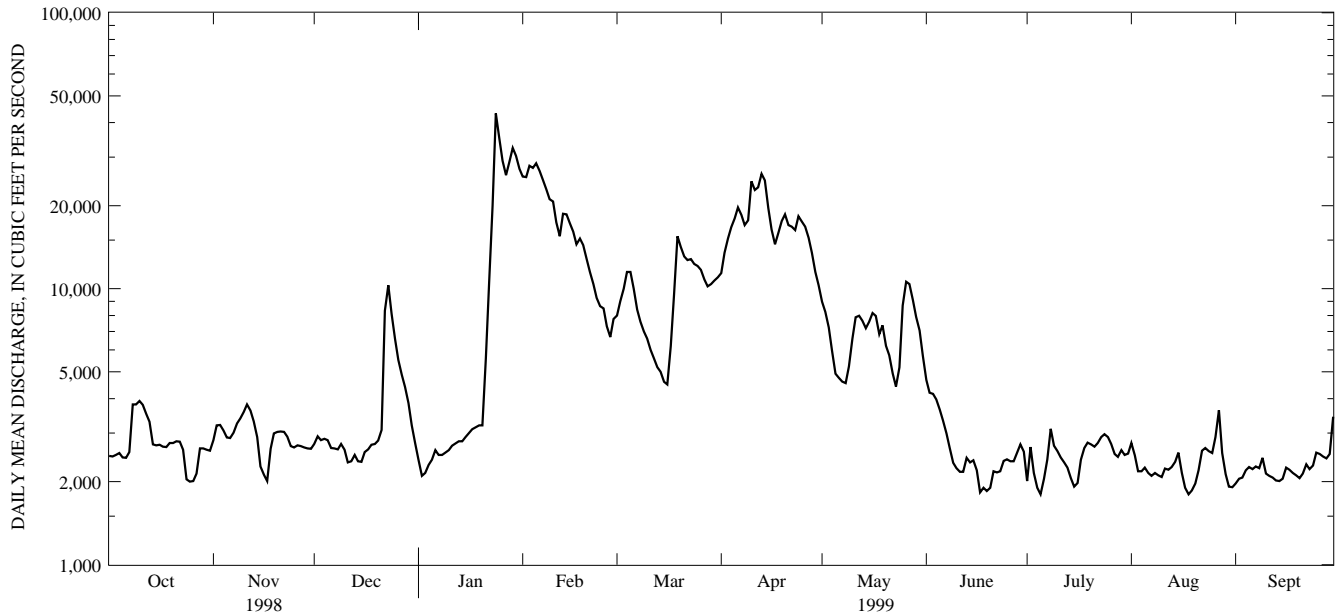
e Estimated.

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03025500 ALLEGHENY RIVER AT FRANKLIN, PA--Continued

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1915 - 1999	
ANNUAL TOTAL	3285350		2439390			
ANNUAL MEAN	9001		6683		10620	
HIGHEST ANNUAL MEAN					15560	
LOWEST ANNUAL MEAN					6482	
HIGHEST DAILY MEAN	69700	Jan 9	43200	Jan 24	130000	Mar 13 1920
LOWEST DAILY MEAN	2000	Oct 25	^e 1800	Jul 5	335	Aug 21 1930
ANNUAL SEVEN-DAY MINIMUM	2300	Oct 23	^a 2000	Jun 17	351	Aug 17 1930
INSTANTANEOUS PEAK FLOW			51300	Jan 24	^b 138000	Mar 13 1920
INSTANTANEOUS PEAK STAGE			12.28	Jan 24	^c 20.65	Mar 13 1920
ANNUAL RUNOFF (CFSM)	1.50		1.12		1.78	
ANNUAL RUNOFF (INCHES)	20.43		15.17		24.13	
10 PERCENT EXCEEDS	21500		17300		25300	
50 PERCENT EXCEEDS	3580		2900		6640	
90 PERCENT EXCEEDS	2500		2130		1380	

- 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).
- e Estimated.



1-YEAR HYDROGRAPH
OCTOBER 1, 1998 TO SEPTEMBER 30, 1999