

**OHIO RIVER MAIN STEM**

**03011020 ALLEGHENY RIVER AT SALAMANCA, NY**

**LOCATION.**--Lat 42°09'23", long 78°42'56", Cattaraugus County, Hydrologic Unit 05010001, on left bank 230 ft upstream from Main Street bridge in Salamanca, 1.3 mi downstream from Great Valley Creek, and 1.6 mi upstream from Little Valley Creek.

**DRAINAGE AREA.**--1,608 mi<sup>2</sup>.

**PERIOD OF RECORD.**--September 1903 to current year. Monthly discharge only for some periods, published in WSP 1305. Prior to October 1964, published as "*at Red House.*"

**REVISED RECORDS.**--WSP 1385: 1907, 1909-12, 1913(M), 1914-15, 1916-17(M), 1925, 1927. WSP 1907: Drainage area.

**GAGE.**--Water-stage recorder. Datum of gage is 1,358.00 ft above National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Sept. 3, 1917, nonrecording gage and Sept. 4, 1917 to Sept. 30, 1964, water-stage recorder at site 7.5 mi downstream at different datum. Oct. 1, 1964 to Sept. 30, 1967, at present site at datum 0.04 ft lower.

**REMARKS.**--Records good except those for estimated daily discharges, which are fair. U.S. Army Corps of Engineers telephone gage-height telemeter and satellite gage-height and precipitation telemeter at station. Several measurements of water temperature were made during the year.

**EXTREMES FOR PERIOD OF RECORD.**--Maximum discharge, 73,000 ft<sup>3</sup>/s, June 23, 1972, gage height, 24.01 ft, from floodmarks; minimum instantaneous discharge not determined.

**EXTREMES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 17,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)	Date	Time	Discharge ft <sup>3</sup> /s	Gage Height (ft)
Mar. 22	1900	*23,600	*12.02	July 23	0100	19,700	10.84
Apr. 5	2200	17,200	10.00				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	475	597	1,930	5,640	e760	e2,200	4,600	1,150	4,360	894	4,020	1,570
2	383	649	1,800	6,550	e780	e1,950	6,080	1,510	3,940	816	6,410	5,940
3	534	693	e1,350	5,740	e820	e1,750	6,130	2,020	3,170	757	7,330	5,500
4	668	721	e1,150	4,670	e1,000	e1,550	5,530	1,640	2,900	709	7,780	4,640
5	626	748	e1,100	3,980	e1,400	e1,600	13,900	1,490	3,240	774	7,680	4,810
6	519	1,030	e1,050	3,450	e1,500	e1,900	14,900	1,600	3,130	732	7,900	3,630
7	434	1,440	e1,200	3,040	e1,300	e1,800	11,000	1,650	2,690	676	6,800	2,840
8	373	1,540	e1,350	2,810	e1,100	e1,700	9,030	1,610	2,640	664	5,350	2,330
9	326	1,370	e1,000	2,730	e950	e2,100	7,290	1,550	4,210	930	7,360	1,970
10	297	1,210	e950	2,820	e880	e3,700	6,190	1,450	3,710	1,130	12,000	1,700
11	277	1,410	1,020	2,510	e840	e3,000	6,120	1,530	3,540	1,920	13,200	1,480
12	257	1,660	1,700	2,180	e800	e2,500	5,290	1,990	5,250	1,360	12,500	1,290
13	252	1,490	2,450	e1,800	e760	e2,700	4,600	3,080	6,690	940	11,900	1,160
14	253	1,270	e4,100	e1,750	e720	e2,500	3,990	3,570	6,520	727	10,100	1,090
15	247	1,130	5,780	e1,500	e710	2,540	3,530	3,020	5,160	622	7,350	1,170
16	253	1,060	4,590	e1,350	e690	4,210	3,160	2,930	4,140	1,400	4,760	2,550
17	399	2,170	e3,350	e1,250	e660	10,400	2,810	2,910	3,290	1,220	3,730	1,940
18	428	4,510	e2,400	e1,100	e680	16,000	2,520	2,570	2,760	1,430	2,990	1,370
19	745	3,640	e2,450	e1,100	e690	16,800	2,280	2,250	2,470	2,160	2,410	1,240
20	1,250	2,900	5,600	e1,050	e710	17,300	2,090	2,010	2,150	1,320	2,020	1,520
21	1,080	2,880	9,120	e1,000	e720	20,100	2,020	2,380	2,340	1,970	1,740	1,550
22	1,040	2,860	6,920	e950	e850	23,100	2,150	2,470	3,000	16,100	1,570	1,240
23	806	3,530	5,280	e850	e1,500	21,900	2,080	2,070	2,370	18,700	1,390	2,050
24	611	3,130	4,240	e800	e3,400	18,700	1,870	2,100	1,990	16,400	1,230	2,810
25	510	2,730	3,600	e820	e3,800	15,000	1,680	2,240	1,750	15,700	1,100	2,220
26	673	2,540	3,220	e830	e3,000	13,600	1,570	2,020	1,540	11,000	1,040	2,220
27	993	2,290	2,800	e800	e2,600	11,400	1,500	1,820	1,350	7,920	1,510	2,070
28	1,040	2,080	2,370	e750	e2,400	8,710	1,400	1,770	1,200	7,650	1,410	2,670
29	789	1,900	2,270	e700	---	6,930	1,300	1,670	1,070	6,350	1,140	4,620
30	660	1,850	2,040	e720	---	6,360	1,210	1,560	973	4,730	1,350	4,510
31	595	---	2,450	e740	---	5,300	---	1,770	---	3,560	1,270	---
TOTAL	17,793	57,028	90,630	65,980	36,020	249,300	137,820	63,400	93,543	131,261	158,340	75,700
MEAN	574	1,901	2,924	2,128	1,286	8,042	4,594	2,045	3,118	4,234	5,108	2,523
MAX	1,250	4,510	9,120	6,550	3,800	23,100	14,900	3,570	6,690	18,700	13,200	5,940
MIN	247	597	950	700	660	1,550	1,210	1,150	973	622	1,040	1,090
CFSM	0.36	1.18	1.82	1.32	0.80	5.00	2.86	1.27	1.94	2.63	3.18	1.57
IN.	0.41	1.32	2.10	1.53	0.83	5.77	3.19	1.47	2.16	3.04	3.66	1.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2003, BY WATER YEAR (WY)

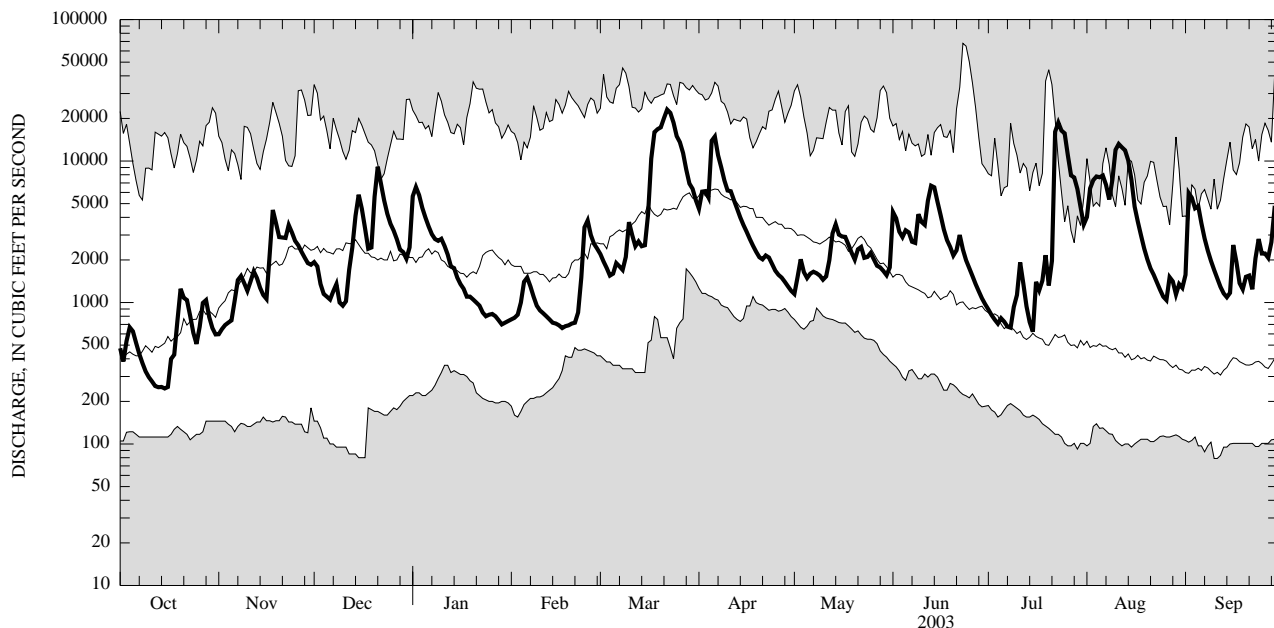
MEAN	1,322	2,502	3,070	3,312	3,178	5,919	5,815	3,455	2,036	1,114	757	838
MAX	5,801	8,605	9,147	10,200	9,683	14,850	15,540	9,574	11,520	6,074	5,108	7,477
(WY)	(1991)	(1928)	(1928)	(1913)	(1976)	(1936)	(1940)	(1943)	(1972)	(1942)	(2003)	(1977)
MIN	124	146	189	255	550	1,983	970	796	299	150	119	118
(WY)	(1931)	(1931)	(1961)	(1961)	(1905)	(1937)	(1946)	(1985)	(1934)	(1934)	(1930)	(1932)

e Estimated.

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03011020 ALLEGHENY RIVER AT SALAMANCA, NY--Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1904 - 2003	
ANNUAL TOTAL	1,023,095		1,176,815			
ANNUAL MEAN	2,803		3,224		2,773	
HIGHEST ANNUAL MEAN					4,174 1916	
LOWEST ANNUAL MEAN					1,777 1999	
HIGHEST DAILY MEAN	16,200	Feb 1	23,100	Mar 22	67,900	Jun 23, 1972
LOWEST DAILY MEAN	151	Sep 13	247	Oct 15	79	Sep 10, 1971
ANNUAL SEVEN-DAY MINIMUM	165	Sep 8	262	Oct 10	84	Dec 11, 1908
ANNUAL RUNOFF (CFSM)	1.74		2.01		1.72	
ANNUAL RUNOFF (INCHES)	23.67		27.22		23.43	
10 PERCENT EXCEEDS	6,260		7,070		6,700	
50 PERCENT EXCEEDS	2,170		1,970		1,510	
90 PERCENT EXCEEDS	320		710		289	



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.  
 SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.