Water-Data Report 2011

03011020 ALLEGHENY RIVER AT SALAMANCA, NY

Allegheny Basin
Upper Allegheny Subbasin

LOCATION.--Lat 42°09′23″, long 78°42′56″ referenced to North American Datum of 1927, Cattaraugus County, NY, 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^2.

SURFACE-WATER RECORDS

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" (03011500).

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 NGVD 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.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 73,000 ft^3/s, June 23, 1972, gage height, 24.01 ft, from floodmarks; minimum daily discharge, 79 ft^3/s, Sept. 10, 11, 1971; minimum instantaneous discharge not determined.

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

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 1	1915	*32,000	*14.42
Mar 1	0515	17,900	10.23
Mar 6	1815	21,900	11.50
Mar 11	0830	24,500	12.30
Apr 5	1330	19,800	10.85

Minimum discharge, 192 ft^3/s, July 23, 24, gage height, 2.64 ft.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 03011020, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/03011020.2011.pdf

03011020 ALLEGHENY RIVER AT SALAMANCA, NY—Continued

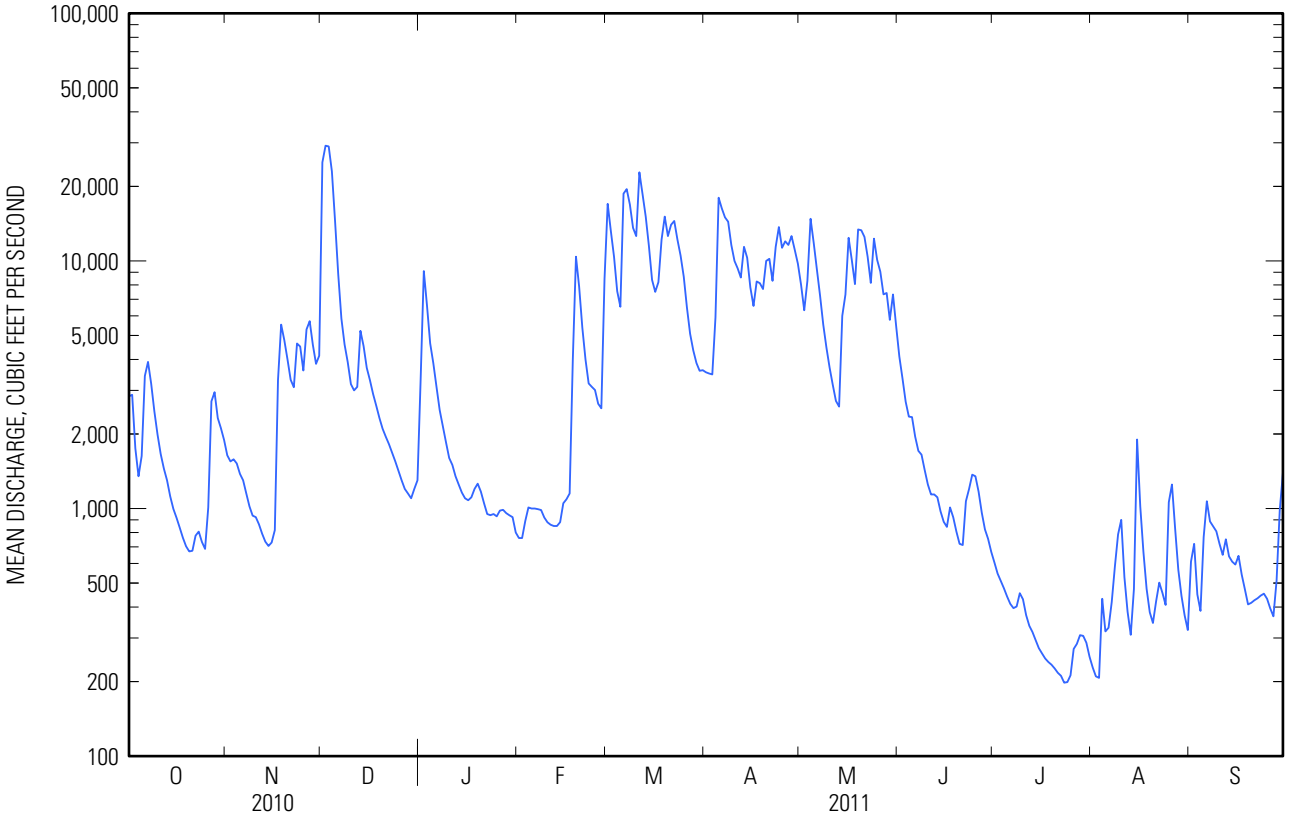
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,840	1,640	25,000	3,330	e760	17,000	3,550	8,010	4,110	605	228	610
2	2,880	1,550	29,200	9,100	e760	13,200	3,510	6,320	3,350	546	210	720
3	1,750	1,580	29,000	6,610	e890	10,400	3,480	8,310	2,700	510	207	450
4	1,350	1,520	23,000	4,650	e1,010	7,550	5,910	14,800	2,350	476	432	386
5	1,630	1,380	14,500	3,860	e1,000	6,530	18,000	11,800	2,340	441	319	767
6	3,430	1,300	8,840	e3,100	e1,000	18,700	16,300	9,220	1,950	412	330	1,070
7	3,910	1,150	5,850	e2,500	994	19,500	15,000	7,230	1,710	396	419	887
8	3,190	1,020	4,600	e2,150	986	16,900	14,400	5,530	1,650	402	584	847
9	2,470	936	3,900	e1,850	e920	13,600	11,600	4,470	1,430	455	786	809
10	1,990	923	e3,180	e1,600	e880	12,600	10,000	3,710	1,250	430	900	720
11	1,660	863	e3,000	e1,500	e860	22,800	9,330	3,160	1,140	371	528	650
12	1,450	791	e3,100	e1,350	e850	18,600	8,570	2,720	1,140	336	383	751
13	1,300	735	5,220	e1,250	e850	15,100	11,400	2,580	1,110	317	309	641
14	1,120	706	4,530	e1,160	881	11,500	10,300	6,000	974	294	473	610
15	996	729	e3,700	e1,100	e1,050	8,380	7,820	7,320	884	273	1,900	594
16	917	818	e3,300	e1,080	e1,090	7,500	6,580	12,400	843	260	1,020	644
17	837	3,300	e2,900	e1,110	1,150	8,210	8,260	10,100	1,010	248	667	541
18	762	5,530	e2,600	e1,200	e4,000	12,200	8,130	8,060	922	240	474	472
19	704	4,780	e2,320	e1,260	e10,400	15,100	7,700	13,400	807	234	381	410
20	671	4,000	e2,100	e1,170	e7,860	12,600	10,000	13,300	720	226	345	416
21	675	3,310	e1,950	e1,050	e5,380	14,000	10,200	12,500	712	217	422	426
22	777	3,090	e1,820	e950	e4,000	14,500	8,310	10,400	1,070	211	502	434
23	807	4,640	e1,680	e940	e3,200	12,200	11,400	8,150	1,200	198	456	445
24	733	4,510	e1,550	e950	e3,100	10,500	13,700	12,300	1,370	199	408	453
25	687	3,610	e1,420	930	3,010	8,630	11,300	10,100	1,350	212	1,060	432
26	1,010	5,290	e1,300	981	2,650	6,480	12,000	9,050	1,170	271	1,250	395
27	2,710	5,710	e1,200	988	2,540	5,080	11,600	7,330	963	284	829	367
28	2,950	4,580	e1,150	958	8,450	4,350	12,600	7,420	824	308	566	511
29	2,320	3,840	e1,100	939	---	3,870	11,100	5,780	754	306	444	984
30	2,110	4,140	e1,200	923	---	3,600	9,740	7,320	668	287	370	1,390
31	1,890	---	e1,300	e800	---	3,620	---	5,450	---	252	323	---
Total	52,526	77,971	195,510	61,339	70,521	354,800	301,790	254,240	42,471	10,217	17,525	18,832
Mean	1,694	2,599	6,307	1,979	2,519	11,450	10,060	8,201	1,416	330	565	628
Max	3,910	5,710	29,200	9,100	10,400	22,800	18,000	14,800	4,110	605	1,900	1,390
Min	671	706	1,100	800	760	3,600	3,480	2,580	668	198	207	367
Cfsm	1.05	1.62	3.92	1.23	1.57	7.12	6.26	5.10	0.88	0.20	0.35	0.39
In.	1.22	1.80	4.52	1.42	1.63	8.21	6.98	5.88	0.98	0.24	0.41	0.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,379	2,542	3,196	3,382	3,152	5,951	5,732	3,439	1,973	1,115	791	893
Max	6,839	8,605	9,147	10,200	9,683	14,850	15,540	9,574	11,520	6,074	5,108	7,477
(WY)	(2007)	(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)

03011020 ALLEGHENY RIVER AT SALAMANCA, NY—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1904 - 2011	
Annual total	878,522		1,457,742			
Annual mean	2,407		3,994		2,793	
Highest annual mean					4,174	1916
Lowest annual mean					1,777	1999
Highest daily mean	29,200	Dec 2	29,200	Dec 2	67,900	Jun 23, 1972
Lowest daily mean	263	Sep 27	198	Jul 23	79	Sep 10, 1971
Annual seven-day minimum	315	Sep 3	214	Jul 19	84	Dec 11, 1908
Annual runoff (cfsm)	1.50		2.48		1.74	
Annual runoff (inches)	20.32		33.72		23.60	
10 percent exceeds	4,620		11,600		6,750	
50 percent exceeds	1,250		1,420		1,540	
90 percent exceeds	420		400		295