

Water-Data Report 2013

03031500 ALLEGHENY RIVER AT PARKER, PA

Allegheny Basin
Middle Allegheny-Redbank Subbasin

LOCATION.--Lat 41°06'02", long 79°40'53" referenced to North American Datum of 1927, Armstrong County, PA, Hydrologic Unit 05010006, on right bank 500 ft downstream from bridge on State Highway 368 at Parker, 1.1 mi downstream from Clarion River, at river mile 83.4.

DRAINAGE AREA.--7,671 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1932 to current year. Prior to October 1963, published as "at Parkers Landing." Gage height records collected at same site since 1885 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 845.14 ft above National Geodetic Vertical Datum of 1929. Prior to Oct 1, 1932, U.S. Weather Bureau gages at different datums. Oct 1-28, 1932, nonrecording gage at datum 27.00 ft lower. Satellite telemetry at station.

COOPERATION.--Station established and maintained by the U.S. Geological Survey. Funding for operation of this station is provided by the U.S. Army Corps of Engineers, Pittsburgh District, the Pennsylvania Department of Environmental Protection, and the U.S. Geological Survey through the National Streamflow Information Program and Cooperative Water Program.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated since 1924 by Piney Reservoir, since December 1940 by Tionesta Reservoir (station 03019500), since November 1949 by Chautauqua Lake, since June 1952 by East Branch Clarion River Lake (station 03027000), 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.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar 17, 1865 reached a stage of 29.4 ft, present datum, discharge, about 250,000 ft³/s, from rating curve extended above 137,000 ft³/s.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3,180	24,400	5,810	14,700	e39,800	18,500	18,500	11,400	20,700	23,700	4,120	4,140
2	3,660	25,900	5,420	13,200	40,900	15,400	20,300	9,910	18,400	31,500	3,830	5,660
3	3,620	24,400	6,270	11,800	37,500	12,900	19,000	9,110	17,900	28,500	3,940	4,460
4	3,030	23,500	8,790	11,000	34,600	11,800	17,200	8,400	15,400	21,700	3,430	4,840
5	2,940	21,500	13,200	10,200	31,100	10,800	15,200	7,760	12,400	18,400	3,700	4,540
6	2,960	19,400	18,800	9,780	28,400	10,600	13,800	7,440	11,600	15,200	3,460	3,970
7	3,170	17,100	15,600	9,910	25,600	10,000	13,000	7,030	18,000	13,900	3,450	3,680
8	3,230	15,500	16,400	9,860	24,400	9,270	12,300	6,350	24,600	11,400	3,740	3,120
9	3,690	13,100	15,800	9,410	21,300	8,420	13,200	6,100	21,700	9,360	3,830	3,190
10	3,660	11,400	24,500	10,100	17,600	7,790	15,100	6,300	18,300	9,180	3,660	4,020
11	3,620	10,200	36,400	11,100	16,900	9,370	38,300	7,390	15,600	13,900	3,200	4,080
12	3,450	9,910	34,300	22,000	19,500	21,500	51,500	10,800	16,800	12,100	3,650	4,050
13	3,510	10,900	29,300	36,500	19,400	32,200	62,400	11,700	16,800	10,100	3,730	3,860
14	3,320	11,500	26,000	38,400	17,600	28,300	48,400	9,850	27,200	9,000	4,340	4,140
15	3,350	11,700	21,500	35,300	15,600	25,300	41,000	8,780	24,200	7,280	4,430	3,580
16	3,500	11,400	19,300	33,900	13,800	21,400	36,300	8,390	20,600	6,070	3,980	3,550
17	3,600	10,300	20,200	32,400	11,300	20,200	33,700	7,950	18,300	5,860	3,680	3,800
18	3,790	9,040	26,300	29,900	10,700	18,500	31,000	7,190	17,600	5,640	3,090	3,740
19	4,090	8,680	31,200	26,100	11,100	17,000	27,200	6,740	15,800	6,090	2,920	3,680
20	4,340	8,990	31,500	24,900	11,500	15,600	24,000	6,400	13,000	5,370	3,090	3,710
21	4,620	8,500	35,500	22,400	11,300	13,900	21,200	6,070	11,300	5,120	2,640	3,890
22	4,670	7,900	38,300	18,900	10,200	12,000	19,300	5,300	9,760	5,690	2,870	4,850
23	4,800	7,350	33,600	15,300	9,690	9,920	16,900	5,230	7,410	5,390	2,950	5,490
24	5,130	7,230	30,400	13,800	8,550	8,620	14,100	5,370	7,480	5,770	2,710	6,070
25	4,840	7,070	27,200	e13,200	8,000	8,810	14,900	5,330	7,050	8,430	2,540	5,880
26	4,540	6,690	24,000	e12,000	7,770	9,430	15,200	5,130	7,240	7,120	2,560	5,030
27	4,270	6,540	22,300	e10,500	10,700	9,560	13,700	4,980	10,100	6,230	2,890	4,530
28	5,050	7,160	18,900	e9,870	16,900	10,500	12,600	4,760	39,800	5,590	4,140	4,260
29	9,200	6,830	17,800	e11,400	---	11,200	12,800	5,780	30,100	6,000	8,050	3,730
30	25,600	6,690	16,600	e21,300	---	12,200	12,600	22,300	24,000	5,150	5,320	3,650
31	28,300	---	16,000	e38,100	---	15,000	---	22,900	---	4,530	4,770	---
Total	170,730	370,780	687,190	587,230	531,710	445,990	704,700	258,140	519,140	329,270	114,710	127,190
Mean	5,507	12,360	22,170	18,940	18,990	14,390	23,490	8,327	17,300	10,620	3,700	4,240
Max	28,300	25,900	38,300	38,400	40,900	32,200	62,400	22,900	39,800	31,500	8,050	6,070
Min	2,940	6,540	5,420	9,410	7,770	7,790	12,300	4,760	7,050	4,530	2,540	3,120
Cfsm	0.72	1.61	2.89	2.47	2.48	1.88	3.06	1.09	2.26	1.38	0.48	0.55
In.	0.83	1.80	3.33	2.85	2.58	2.16	3.42	1.25	2.52	1.60	0.56	0.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	7,336	12,590	17,970	18,200	17,750	26,360	24,260	15,520	9,725	6,328	4,854	5,476
Max	32,490	33,760	38,040	53,560	40,460	63,020	58,110	36,220	35,340	26,090	16,890	34,760
(WY)	(2007)	(1986)	(1978)	(1937)	(1976)	(1936)	(1940)	(1943)	(1989)	(1972)	(1994)	(2004)
Min	802	1,655	1,332	2,111	3,788	7,746	5,651	3,610	1,508	1,069	1,034	950
(WY)	(1964)	(1961)	(1961)	(1961)	(1934)	(1969)	(1946)	(1934)	(1934)	(1934)	(1934)	(1936)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1933 - 2013	
Annual total	4,241,350		4,846,780			
Annual mean	11,590		13,280		13,840	
Highest annual mean					21,360	2004
Lowest annual mean					8,175	1934
Highest daily mean	56,900	Jan 28	62,400	Apr 13	160,000	Jan 22, 1959
Lowest daily mean	2,840	Jun 25	2,540	Aug 25	454	Jul 28, 1934
Annual seven-day minimum	3,090	Jul 9	2,740	Aug 21	508	Jul 25, 1934
Maximum peak flow			^a 66,100Apr 13		^b 175,000Jan 22, 1959	
Maximum peak stage			^c 13.26Jan 28		^c 29.60Jan 21, 1959	
Instantaneous low flow			2,520 Aug 25 ^d		409 Jul 30, 1934	
Annual runoff (cfsm)	1.51		1.73		1.80	
Annual runoff (inches)	20.57		23.50		24.52	
10 percent exceeds	27,400		28,300		32,100	
50 percent exceeds	6,380		10,200		9,020	
90 percent exceeds	3,270		3,660		2,430	

^a Associated gage height 12.64 ft.

^b From rating curve extended above 137,000 ft³/s, based on straight-line extension.

^c Backwater from ice.

^d Also Aug 26.

