

Water-Data Report 2012

03025500 ALLEGHENY RIVER AT FRANKLIN, PA

Allegheny Basin
Middle Allegheny-Tionesta Subbasin

LOCATION.--Lat 41°23'22", long 79°49'14" referenced to North American Datum of 1927, Venango County, PA, 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 river mile 124.4.

DRAINAGE AREA.--5,982 mi².

SURFACE-WATER RECORDS

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 National Geodetic Vertical Datum of 1929. Prior to Sept 16, 1932, nonrecording gage, and Sept 16-30, 1932, water-stage recorder, at present site at datum 2.00 ft higher. Satellite telemetry at station.

COOPERATION.--Station established and maintained by the U.S. Geological Survey National Streamflow Information Program in cooperation with the U.S. Army Corps of Engineers, Pittsburgh District and the Pennsylvania Department of Environmental Protection.

REMARKS.--Records good. No estimated daily discharges. Flow regulated since December 1940 by Tionesta Lake (station 03020000), since November 1949 by Chautauqua Lake, 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 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.

03025500 ALLEGHENY RIVER AT FRANKLIN, PA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3,200	13,300	23,900	23,100	27,600	20,900	5,790	12,500	3,180	2,610	2,790	2,520
2	3,380	12,700	21,100	23,800	28,400	21,000	5,740	13,400	5,290	2,520	2,610	2,460
3	4,490	12,300	19,400	22,900	26,600	23,100	5,260	13,800	5,040	2,460	2,340	2,400
4	5,350	11,600	16,900	20,700	22,600	21,900	4,610	14,400	4,450	3,230	2,240	2,400
5	5,590	10,000	15,700	19,400	19,400	20,300	4,300	15,600	4,350	2,890	2,260	2,560
6	5,040	9,420	20,500	17,400	18,000	19,500	3,870	13,400	3,990	2,740	2,250	2,580
7	3,980	8,490	23,400	16,900	17,000	18,200	3,620	12,200	3,570	2,600	2,190	2,540
8	3,390	8,130	21,300	16,200	14,200	16,500	3,440	15,200	3,210	2,500	2,230	2,690
9	3,040	7,240	18,800	15,000	12,300	17,700	3,330	18,200	2,980	2,370	2,450	2,930
10	2,860	6,840	15,600	13,900	10,900	18,200	3,230	19,200	2,810	2,300	2,730	2,810
11	2,750	6,190	13,600	12,500	10,300	16,300	3,200	18,500	2,700	2,260	2,740	2,820
12	2,730	5,910	12,200	15,100	8,910	14,000	3,070	17,200	2,910	2,400	2,900	2,740
13	2,880	6,050	11,600	20,800	8,570	14,300	3,380	15,900	3,260	2,410	2,810	2,600
14	3,500	6,050	10,400	20,800	7,630	12,700	3,460	14,600	3,400	2,420	2,700	2,510
15	5,500	16,400	12,900	18,900	7,160	11,100	3,490	12,000	3,320	2,560	2,580	2,470
16	11,600	19,600	19,100	17,000	6,810	10,800	3,450	9,480	3,180	3,270	2,610	2,360
17	16,300	18,500	18,300	19,200	8,370	10,800	3,420	7,200	3,070	2,890	2,560	2,350
18	15,600	16,800	17,200	29,500	9,420	10,100	3,580	5,700	3,010	2,750	2,500	2,790
19	15,300	15,000	15,600	28,700	9,200	9,810	3,500	4,820	2,770	2,620	2,410	3,060
20	13,900	13,100	14,400	27,100	8,270	9,500	3,380	4,460	2,480	2,910	2,370	3,080
21	13,300	11,900	18,300	24,000	7,450	8,710	3,340	4,160	2,500	2,700	2,490	3,160
22	13,500	11,400	30,500	22,000	7,380	7,610	3,480	3,940	2,440	2,450	2,590	3,140
23	13,300	16,300	29,600	21,500	7,980	6,870	3,630	3,480	2,380	2,390	2,610	3,110
24	12,700	19,600	29,400	25,400	10,500	7,770	5,490	3,470	2,210	2,300	2,530	3,080
25	11,800	20,100	28,000	22,600	12,900	10,000	10,200	3,220	2,270	2,120	2,490	3,040
26	10,900	18,500	25,600	20,500	12,300	9,640	11,700	2,960	2,300	2,220	2,350	3,040
27	12,100	16,900	23,500	35,600	10,800	8,830	12,100	2,910	2,320	3,670	2,350	3,000
28	15,200	22,700	26,000	35,300	9,750	7,750	12,200	3,310	2,410	3,680	2,570	2,820
29	16,000	26,800	23,800	30,200	12,000	6,770	13,500	3,200	2,730	4,050	2,640	2,650
30	15,500	27,000	21,800	29,700	---	6,000	13,600	3,400	2,740	3,660	2,500	2,370
31	14,400	---	21,500	28,200	---	5,860	---	3,180	---	3,200	2,570	---
Total	279,080	414,820	619,900	693,900	372,700	402,520	166,360	294,990	93,270	85,150	77,960	82,080
Mean	9,003	13,830	20,000	22,380	12,850	12,980	5,545	9,516	3,109	2,747	2,515	2,736
Max	16,300	27,000	30,500	35,600	28,400	23,100	13,600	19,200	5,290	4,050	2,900	3,160
Min	2,730	5,910	10,400	12,500	6,810	5,860	3,070	2,910	2,210	2,120	2,190	2,350
Cfsm	1.50	2.31	3.34	3.74	2.15	2.17	0.93	1.59	0.52	0.46	0.42	0.46
In.	1.74	2.58	3.85	4.32	2.32	2.50	1.03	1.83	0.58	0.53	0.48	0.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 1940, BY WATER YEAR (WY) (PRIOR TO REGULATION)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4,419	9,060	11,520	13,720	12,840	21,440	19,260	11,620	6,494	3,739	2,611	2,414
Max	20,360	24,770	33,270	41,420	31,600	49,850	49,920	27,790	19,440	14,330	10,930	11,440
(WY)	(1927)	(1927)	(1928)	(1937)	(1938)	(1936)	(1940)	(1919)	(1917)	(1917)	(1915)	(1926)
Min	515	771	4,325	2,060	3,053	7,205	8,368	2,835	1,106	555	414	435
(WY)	(1931)	(1931)	(1931)	(1918)	(1934)	(1915)	(1915)	(1934)	(1934)	(1934)	(1930)	(1930)

03025500 ALLEGHENY RIVER AT FRANKLIN, PA—Continued

SUMMARY STATISTICS

Water Years 1915 - 1940		
Annual total		
Annual mean	9,912	
Highest annual mean	13,590	1928
Lowest annual mean	6,482	1931
Highest daily mean	130,000	Mar 13 1920
Lowest daily mean	335	Aug 21 1930
Annual seven-day minimum	351	Aug 17 1930
Maximum peak flow	^a 138,000	Mar 13 1920
Maximum peak stage	^b 20.65	Mar 13 1920
Annual runoff (cfsm)	1.66	
Annual runoff (inches)	22.51	
10 percent exceeds	24,600	
50 percent exceeds	5,700	
90 percent exceeds	1,050	

^a From rating curve extended above 111,000 ft³/s based on straight-line extension.

^b Maximum gage height observed, 26.0 ft, Feb 27, 1917 (backwater from ice), also Feb 26, 1926 (backwater from ice).

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2012, BY WATER YEAR (WY)

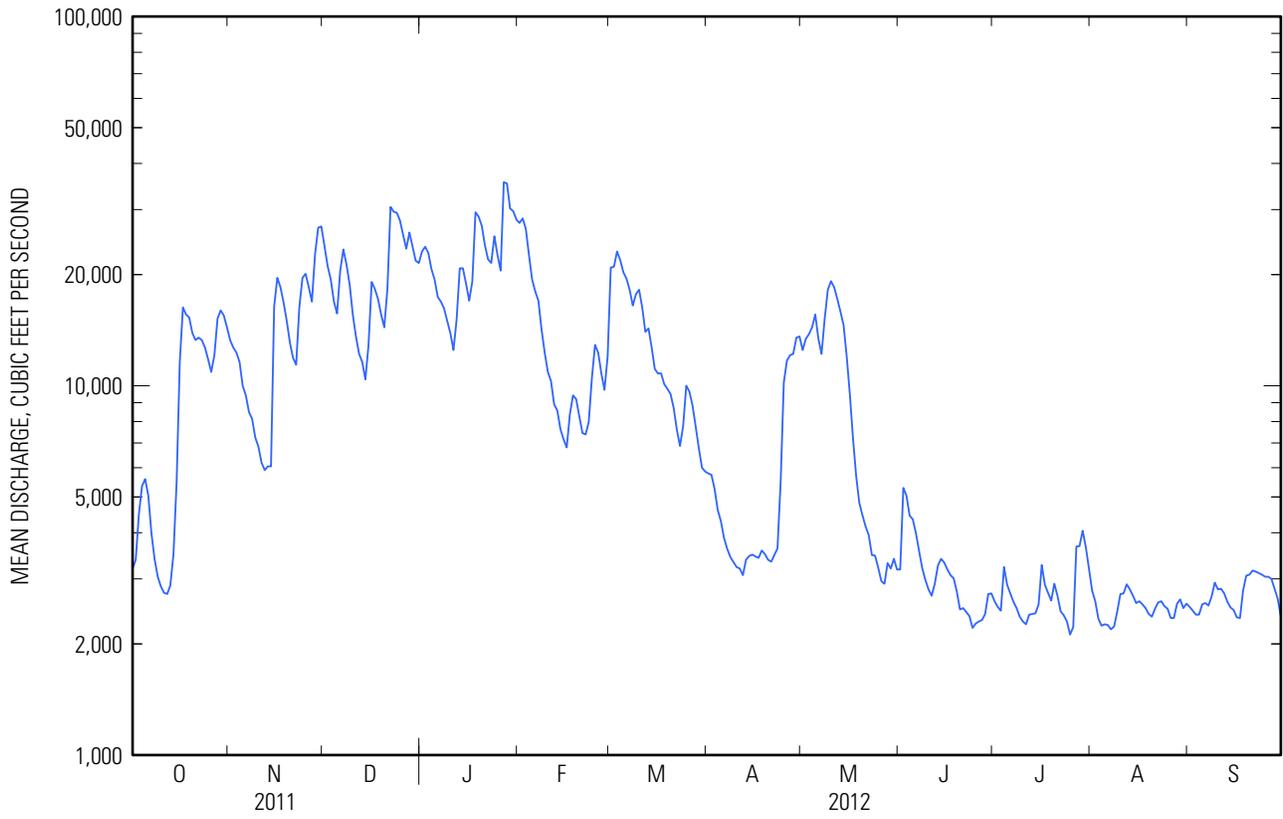
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6,330	10,560	14,860	14,370	13,900	20,580	18,880	12,390	7,536	4,937	3,798	4,443
Max	24,750	26,030	31,230	37,780	32,340	48,390	39,970	30,070	24,820	21,440	13,830	26,180
(WY)	(2007)	(1986)	(1978)	(1952)	(1976)	(1945)	(1947)	(1943)	(1989)	(1972)	(1977)	(2004)
Min	569	1,277	1,125	1,732	2,929	6,383	4,203	2,554	2,307	1,014	741	741
(WY)	(1964)	(1961)	(1961)	(1961)	(1963)	(1969)	(1946)	(1985)	(1991)	(1966)	(1954)	(1941)

SUMMARY STATISTICS

	Calendar Year 2011	Water Year 2012	Water Years 1941 - 2012
Annual total	5,696,250	3,582,730	
Annual mean	15,610	9,789	11,040
Highest annual mean			16,480
Lowest annual mean			6,683
Highest daily mean	70,000	Mar 11	35,600
Lowest daily mean	2,020	Jul 31	2,120
Annual seven-day minimum	2,230	Jul 27	2,280
Maximum peak flow			44,500
Maximum peak stage			11.42
Instantaneous low flow			2,050
Annual runoff (cfsm)	2.61	1.64	1.84
Annual runoff (inches)	35.42	22.28	25.07
10 percent exceeds	36,600	21,500	25,600
50 percent exceeds	10,400	6,820	7,270
90 percent exceeds	2,530	2,470	1,990

^a From rating curve extended above 111,000 ft³/s based on straight-line extension.

03025500 ALLEGHENY RIVER AT FRANKLIN, PA—Continued



03025500 ALLEGHENY RIVER AT FRANKLIN, PA—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 2011 to current year.

pH: June 2011 to current year (seasonal operation, June to October).

WATER TEMPERATURE: June 2011 to current year.

DISSOLVED OXYGEN: June 2011 to current year (seasonal operation, June to October).

INSTRUMENTATION.--Continuous water-quality monitor interfaced with a data collection platform with 15-minute recording interval. Satellite telemetry at station.

REMARKS.--Water temperature, pH and dissolved oxygen records rated good. Specific conductance record rated good except for period from February 1 to April 29, which is fair. Data collection for dissolved oxygen and pH is discontinued from December through April. Other interruptions in the record were due to excessive fouling and malfunctions in the equipment.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 35.0°C, July 22, 2011; minimum, -0.3°C, on many days during winter periods.

SPECIFIC CONDUCTANCE: Maximum, 696 micromsiemens/cm, February 2, 2011; minimum, 107 micromsiemens/cm, January 27, 2012.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 31.2°C, July 7; minimum, -0.1°C, on several days during winter.

SPECIFIC CONDUCTANCE: Maximum, 330 micromsiemens/cm, July 19; minimum, 107 micromsiemens/cm, Jan. 27.

03025500 ALLEGHENY RIVER AT FRANKLIN, PA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	15.4	13.3	14.4	8.0	6.7	7.4	7.4	5.7	6.6	3.2	2.8	3.0
2	13.3	11.8	12.4	8.1	6.7	7.5	5.7	4.7	5.1	2.8	1.7	2.4
3	13.2	11.6	12.2	8.0	7.0	7.6	4.9	4.2	4.6	1.7	-0.1	0.5
4	14.2	12.5	13.1	8.4	7.6	8.0	5.5	4.0	4.7	0.0	-0.1	-0.1
5	14.6	12.5	13.6	7.6	6.2	7.0	6.3	5.3	5.8	0.3	-0.1	0.1
6	14.7	12.7	13.9	7.1	5.7	6.6	6.6	6.2	6.4	1.2	0.1	0.6
7	15.8	13.4	14.5	7.9	6.1	7.0	6.3	5.6	6.0	1.9	0.9	1.4
8	16.5	13.6	15.0	9.2	7.4	8.3	5.6	4.6	5.2	2.1	1.4	1.7
9	17.4	14.4	15.7	9.9	7.6	8.7	4.6	4.2	4.5	1.8	1.0	1.4
10	16.5	14.7	15.6	9.9	7.8	8.9	4.2	2.9	3.8	2.0	1.1	1.5
11	17.1	14.5	15.8	7.8	6.5	7.2	2.9	1.9	2.4	2.1	0.8	1.4
12	15.9	14.9	15.4	7.2	5.6	6.5	2.1	1.1	1.6	3.0	2.1	2.6
13	16.6	14.6	15.5	8.2	6.1	7.0	2.0	0.8	1.5	2.9	0.8	1.9
14	16.6	14.7	15.8	10.3	8.2	9.1	3.0	1.8	2.3	0.8	0.2	0.5
15	14.7	12.9	13.6	10.3	9.8	10.1	4.8	3.0	4.0	0.2	-0.1	0.0
16	12.9	11.8	12.2	10.2	9.5	10.0	4.8	4.4	4.6	0.1	-0.1	0.0
17	11.8	10.9	11.4	9.5	7.6	8.7	4.4	3.5	4.1	2.1	0.1	1.0
18	11.4	10.9	11.1	7.6	6.3	7.1	3.5	2.7	3.2	2.0	0.5	1.3
19	11.8	10.7	11.3	7.0	6.0	6.5	2.8	2.3	2.6	0.5	-0.1	0.0
20	11.8	10.8	11.3	8.4	6.7	7.7	3.3	2.8	3.1	0.0	-0.1	-0.1
21	10.8	10.4	10.6	8.1	7.2	7.8	5.5	3.3	4.3	0.1	-0.1	0.0
22	11.0	10.1	10.5	7.3	6.5	6.9	5.8	5.5	5.7	0.2	-0.1	0.0
23	11.1	9.6	10.3	7.4	6.5	7.1	5.6	4.7	5.3	1.4	0.1	0.9
24	10.6	9.5	10.1	6.6	6.1	6.3	4.7	3.7	4.2	1.5	1.2	1.4
25	10.3	8.8	9.6	6.3	5.8	6.1	3.7	3.3	3.5	1.2	0.9	1.0
26	10.7	9.4	10.0	6.6	5.6	6.1	3.7	3.2	3.5	1.6	0.9	1.2
27	10.7	9.4	10.0	7.6	6.0	6.7	3.3	3.1	3.2	3.4	1.6	2.8
28	9.4	8.4	8.8	8.6	7.5	8.2	3.2	1.8	2.6	2.7	1.5	2.1
29	8.4	7.6	8.0	9.0	8.3	8.6	1.8	1.1	1.3	1.5	0.8	1.1
30	7.6	6.9	7.2	8.7	7.4	8.2	2.2	1.3	1.8	1.1	0.6	1.0
31	7.6	6.3	6.9	---	---	---	3.0	2.2	2.7	2.4	1.1	1.7
Month	17.4	6.3	12.1	10.3	5.6	7.6	7.4	0.8	3.9	3.4	-0.1	1.1

03025500 ALLEGHENY RIVER AT FRANKLIN, PA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	4.2	2.4	3.5	4.2	3.9	4.1	10.2	8.8	9.5	13.1	11.1	12.0
2	3.9	3.4	3.6	4.4	3.5	4.0	11.8	8.4	10.0	13.8	11.7	12.6
3	3.8	3.1	3.4	4.5	3.8	4.3	11.1	8.1	9.9	17.0	13.0	14.9
4	3.3	2.8	3.0	3.8	3.1	3.5	13.0	9.8	11.3	18.4	15.2	16.7
5	3.5	2.5	2.9	3.2	2.1	2.8	12.9	9.1	10.9	19.4	16.3	17.7
6	3.5	2.0	2.7	3.4	1.6	2.4	12.5	8.8	10.6	20.6	16.9	18.7
7	3.3	2.3	2.8	5.1	2.0	3.4	12.9	8.5	10.7	19.6	17.3	18.4
8	2.7	1.9	2.4	6.2	3.9	5.1	11.1	9.0	10.2	18.5	16.9	17.4
9	2.5	0.9	1.7	5.5	4.3	5.0	11.3	8.7	10.1	17.3	15.9	16.6
10	2.1	1.2	1.7	5.3	3.7	4.4	10.2	8.2	9.1	16.5	14.9	15.7
11	1.8	0.4	1.0	6.1	3.6	4.7	9.4	7.6	8.4	17.4	13.6	15.4
12	0.4	-0.1	0.1	6.6	4.5	5.5	9.9	6.9	8.4	18.1	13.9	16.0
13	1.0	-0.1	0.4	9.3	6.1	7.6	12.6	7.2	9.8	17.8	15.0	16.6
14	1.5	0.3	0.9	10.0	7.4	8.7	10.8	9.2	10	17.8	16.3	17.1
15	2.1	1.2	1.6	10.4	8.4	9.3	14.0	10.1	11.7	19.9	16.7	18.2
16	2.7	1.7	2.2	11.6	9.5	10.4	16.7	11.8	14.2	19.5	16.9	18.3
17	3.1	2.0	2.6	13.1	10.2	11.5	16.4	13.0	14.7	19.6	15.3	17.6
18	3.2	1.9	2.5	14.2	11.3	12.6	15.9	12.0	14.0	20.0	15.6	18.0
19	2.9	1.8	2.2	14.5	12.7	13.5	15.8	12.0	13.9	21.8	16.7	19.3
20	2.9	1.0	1.9	15.5	12.8	14.1	18.0	13.1	15.4	23.4	18.5	21.0
21	2.2	1.0	1.6	16.7	13.3	14.9	16.7	12.6	14.7	23.8	19.5	21.7
22	3.4	1.7	2.6	17.4	14.1	15.8	12.7	11.6	12.1	24.4	20.5	22.2
23	4.0	2.8	3.5	17.5	14.7	16.3	11.6	8.7	10.0	24.7	19.6	22.1
24	4.1	3.1	3.5	17.2	15.4	16.0	9.4	7.8	8.6	24.3	20.5	22.5
25	3.1	2.1	2.6	15.7	14.6	15.1	10.5	7.4	8.9	25.8	21.0	23.4
26	3.0	1.8	2.3	14.8	12.1	13.5	10.0	8.1	9.0	26.1	22.6	24.4
27	3.4	1.5	2.3	12.6	10.0	11.4	11.1	8.0	9.3	25.9	22.1	23.4
28	4.0	1.9	2.9	13.6	10.0	11.7	9.9	7.9	8.7	25.6	20.9	23.3
29	4.0	2.9	3.5	12.6	10.1	10.8	11.4	7.1	9.2	24.9	22.9	23.9
30	---	---	---	11.2	8.6	10.1	12.3	8.5	10.2	25.3	21.3	23.1
31	---	---	---	10.5	9.4	9.7	---	---	---	24.1	20.3	22.2
Month	4.2	-0.1	2.3	17.5	1.6	9.1	18.0	6.9	10.8	26.1	11.1	19.0

03025500 ALLEGHENY RIVER AT FRANKLIN, PA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	21.7	18.6	20.1	29.3	23.7	26.5	27.8	23.8	25.9	25.8	22.6	24.3
2	19.3	17.0	18.1	28.9	24.0	26.6	27.8	23.3	25.7	25.5	23.5	24.6
3	19.1	16.1	17.4	26.6	22.0	24.7	28.6	23.9	26.4	26.0	23.1	24.7
4	18.0	16.1	17.1	26.0	21.6	23.6	28.9	25.0	27.1	25.3	23.7	24.3
5	17.8	15.9	16.9	28.0	23.5	25.7	27.5	25.5	26.1	26.5	22.9	24.7
6	19.5	15.9	17.5	30.2	24.5	27.3	27.8	23.7	25.8	27.0	23.4	25.3
7	21.2	16.7	19.0	31.2	25.6	28.5	27.8	23.2	25.7	26.1	23.5	25.0
8	22.1	17.7	20.0	30.8	26.9	28.8	27.9	23.8	26.0	24.5	20.5	22.4
9	24.0	18.5	21.3	30.0	25.2	27.7	26.7	22.2	25.1	21.6	18.9	20.2
10	26.2	20.1	23.1	28.9	24.1	26.6	24.1	22.7	23.3	20.9	18.0	19.4
11	24.9	21.7	23.3	28.8	22.9	26.1	23.1	20.6	21.5	21.3	17.1	19.1
12	24.5	21.6	22.7	29.3	23.9	26.8	22.2	20.1	21.0	21.8	17.4	19.6
13	24.2	19.4	21.9	28.0	24.5	26.3	24.0	20.1	22.1	22.7	18.2	20.5
14	24.7	19.4	22.0	25.8	23.8	24.9	24.1	21.9	23.0	22.3	19.1	20.7
15	25.5	20.5	22.9	26.8	23.9	25.4	25.1	21.8	23.4	21.3	18.4	19.8
16	25.5	21.0	23.2	28.4	23.8	26.1	25.9	21.4	23.8	20.9	16.9	19.0
17	24.2	21.3	22.8	29.5	23.9	26.8	24.7	22.7	23.6	20.8	17.2	19.2
18	25.7	21.8	23.6	30.3	26.3	28.3	24.8	21.1	23.1	19.8	17.7	19.0
19	28.6	22.7	25.6	28.2	26.2	27.1	24.2	20.3	22.4	18.2	15.7	17.0
20	30.0	24.2	27.0	26.5	23.2	24.5	24.6	21.0	23.0	18.6	14.5	16.6
21	30.3	25.0	27.6	24.0	22.2	23.0	24.3	20.8	22.8	19.7	16.7	18.1
22	29.3	25.1	27.0	27.2	21.6	24.3	24.8	20.7	22.9	18.6	16.7	17.7
23	28.1	23.1	25.6	27.6	24.0	25.8	25.1	21.0	23.3	16.7	14.8	15.7
24	26.1	21.9	24.2	28.7	25.0	26.7	25.9	21.7	23.9	16.1	13.8	14.8
25	24.8	22.0	23.3	28.1	23.1	25.8	26.2	22.3	24.4	15.3	12.5	14.0
26	24.4	19.3	21.9	27.8	24.2	25.6	25.0	22.2	23.7	15.5	14.4	14.9
27	25.7	19.8	22.7	25.9	23.1	24.5	24.1	22.3	23.5	15.9	14.4	15.1
28	27.6	20.9	24.3	24.7	22.9	23.7	25.2	22.1	23.8	15.8	14.4	15.0
29	29.4	24.0	26.6	26.2	21.8	23.8	24.5	21.4	23.2	17.0	13.6	15.2
30	27.4	23.5	25.4	25.4	22.2	23.9	24.4	20.4	22.6	16.8	14.0	15.3
31	---	---	---	27.3	22.6	25.0	25.1	20.6	23.1	---	---	---
Month	30.3	15.9	22.5	31.2	21.6	25.8	28.9	20.1	23.9	27.0	12.5	19.4

	Max	Min	Mean
Year	31.2	-0.1	13.2

03025500 ALLEGHENY RIVER AT FRANKLIN, PA—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	247	239	242	212	204	207	163	160	161	230	199	217
2	259	246	251	220	212	216	167	163	164	226	174	188
3	263	249	257	226	220	222	173	165	169	202	163	187
4	272	260	265	232	226	228	180	173	175	186	159	167
5	273	266	270	237	232	235	186	177	180	202	186	194
6	269	251	258	241	237	240	179	155	169	219	190	195
7	255	246	251	246	241	243	157	149	152	209	195	203
8	258	249	254	249	245	247	151	150	151	223	207	215
9	262	253	258	253	248	250	158	151	154	226	221	223
10	267	255	262	255	250	253	167	158	165	227	222	225
11	272	260	266	256	250	254	174	167	170	237	225	230
12	279	270	274	259	253	256	181	174	177	238	224	230
13	278	266	273	278	259	269	187	181	183	231	222	227
14	274	250	263	268	212	253	196	187	191	236	227	232
15	264	249	257	222	181	197	196	180	189	245	223	231
16	258	208	233	194	170	181	181	165	173	229	205	212
17	209	196	200	172	169	170	165	152	155	212	193	203
18	198	186	191	170	168	169	159	154	157	209	161	181
19	186	185	186	176	169	172	167	159	164	185	166	176
20	194	185	189	182	176	179	175	167	171	192	166	182
21	202	194	199	190	182	185	175	123	156	168	163	166
22	207	202	204	193	188	191	144	134	139	170	161	166
23	212	207	209	188	179	183	145	133	138	190	144	172
24	218	211	215	183	171	177	154	144	149	159	144	149
25	218	214	216	171	167	168	162	148	154	145	138	141
26	216	212	214	172	167	169	167	158	162	160	139	150
27	217	211	213	176	170	174	185	167	175	152	107	127
28	218	212	215	175	149	160	209	178	193	134	125	129
29	216	201	208	168	156	163	221	209	215	137	125	128
30	201	199	200	163	158	160	227	218	222	147	136	140
31	205	201	202	---	---	---	233	224	228	147	142	146
Month	279	185	232	278	149	206	233	123	171	245	107	185

03025500 ALLEGHENY RIVER AT FRANKLIN, PA—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	162	146	153	159	137	150	205	199	202	---	---	---
2	161	149	153	160	149	156	207	199	203	---	---	---
3	151	148	149	154	143	148	209	202	205	---	---	---
4	161	151	156	157	147	152	209	203	206	173	169	170
5	168	160	165	157	150	153	211	206	209	177	172	174
6	172	168	170	165	156	160	215	209	213	180	173	176
7	174	171	172	169	160	165	219	213	216	184	168	180
8	186	174	177	174	167	170	223	217	221	175	169	172
9	196	177	181	183	163	171	229	222	225	184	174	181
10	193	181	185	177	166	170	237	224	230	183	174	180
11	206	190	198	166	160	163	229	225	227	186	172	177
12	226	199	212	169	163	166	232	220	229	195	184	188
13	247	211	224	169	160	164	239	231	233	203	195	199
14	246	219	228	168	164	166	235	233	234	206	201	202
15	237	224	230	171	166	168	239	214	229	217	206	213
16	248	234	240	180	171	173	247	213	231	226	217	222
17	244	217	231	180	175	176	245	234	236	233	226	229
18	238	206	220	181	176	177	240	236	237	237	233	235
19	208	193	199	186	181	183	254	240	244	242	237	240
20	201	192	195	192	186	189	264	250	256	249	241	245
21	212	200	205	196	192	193	288	264	277	253	233	249
22	220	200	206	199	194	196	297	288	292	256	244	251
23	217	206	210	207	199	202	303	271	288	261	250	256
24	212	184	192	210	180	192	284	263	273	267	258	263
25	209	183	189	188	180	186	269	247	260	272	260	267
26	189	173	183	190	186	188	254	219	236	276	262	270
27	183	175	179	186	184	185	233	208	218	278	223	265
28	190	180	184	191	186	187	230	219	225	269	254	259
29	202	138	172	197	191	194	227	187	210	277	269	273
30	---	---	---	200	191	197	---	---	---	273	234	245
31	---	---	---	201	196	199	---	---	---	263	248	258
Month	248	138	192	210	137	175	303	187	233	278	168	223

03025500 ALLEGHENY RIVER AT FRANKLIN, PA—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	262	214	248	294	277	286	261	247	254	319	297	309
2	242	207	219	298	282	289	261	246	253	310	294	302
3	218	205	212	300	131	282	262	244	253	306	292	299
4	215	200	206	257	188	239	256	242	248	309	255	298
5	222	203	212	272	243	258	260	216	244	312	292	304
6	227	212	223	284	269	277	252	240	246	317	299	309
7	234	226	229	285	263	275	258	247	252	303	282	293
8	239	231	234	281	258	268	263	250	257	296	264	282
9	244	233	239	276	263	270	274	109	255	294	282	289
10	247	237	242	284	269	276	265	201	249	295	285	289
11	252	240	246	285	269	277	275	256	265	301	287	294
12	252	213	238	287	271	278	283	268	275	308	297	302
13	242	226	231	286	268	277	284	270	278	305	286	297
14	256	242	252	280	270	275	280	263	272	298	285	292
15	261	251	256	287	253	278	279	268	272	299	284	292
16	267	253	260	286	214	268	284	267	275	299	288	293
17	264	253	259	285	242	257	282	271	276	315	287	298
18	265	251	259	311	285	302	283	269	276	302	283	292
19	263	249	258	330	274	303	283	268	275	304	296	300
20	267	256	262	292	268	279	280	268	274	304	295	299
21	274	262	268	280	265	273	288	274	281	310	298	305
22	280	270	275	283	263	271	286	269	278	308	298	305
23	284	272	278	279	260	269	277	266	272	318	303	314
24	286	271	279	274	258	266	283	272	278	316	293	306
25	285	275	280	270	251	261	287	274	281	293	283	289
26	290	274	283	269	133	247	313	282	291	294	260	279
27	293	275	285	231	164	216	296	264	288	284	277	280
28	295	275	286	229	207	216	310	284	296	283	274	279
29	289	262	279	244	227	236	304	293	299	291	281	286
30	286	271	277	236	215	223	312	301	306	294	280	287
31	---	---	---	254	231	246	320	306	313	---	---	---
Month	295	200	252	330	131	266	320	109	272	319	255	295

	Max	Min	Mean
Year	330	107	225

03025500 ALLEGHENY RIVER AT FRANKLIN, PA—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	8.8	7.9	8.0	---	---	---	---	---	---	---	---	---
2	8.7	7.9	8.1	---	---	---	---	---	---	---	---	---
3	8.8	8.0	8.2	---	---	---	---	---	---	---	---	---
4	8.8	7.9	8.2	---	---	---	---	---	---	---	---	---
5	8.8	8.0	8.2	---	---	---	---	---	---	---	---	---
6	8.9	7.9	8.3	---	---	---	---	---	---	---	---	---
7	9.2	7.9	8.5	---	---	---	---	---	---	---	---	---
8	9.3	7.9	8.6	---	---	---	---	---	---	---	---	---
9	9.4	7.9	8.8	---	---	---	---	---	---	---	---	---
10	9.5	7.9	8.8	---	---	---	---	---	---	---	---	---
11	9.5	8.0	8.8	---	---	---	---	---	---	---	---	---
12	8.8	8.0	8.3	---	---	---	---	---	---	---	---	---
13	9.3	7.9	8.5	---	---	---	---	---	---	---	---	---
14	8.9	7.9	8.1	---	---	---	---	---	---	---	---	---
15	8.1	7.8	7.9	---	---	---	---	---	---	---	---	---
16	7.9	7.8	7.8	---	---	---	---	---	---	---	---	---
17	7.8	7.7	7.8	---	---	---	---	---	---	---	---	---
18	7.7	7.7	7.7	---	---	---	---	---	---	---	---	---
19	7.7	7.7	7.7	---	---	---	---	---	---	---	---	---
20	7.8	7.7	7.7	---	---	---	---	---	---	---	---	---
21	7.9	7.7	7.8	---	---	---	---	---	---	---	---	---
22	8.0	7.8	7.8	---	---	---	---	---	---	---	---	---
23	8.0	7.8	7.9	---	---	---	---	---	---	---	---	---
24	8.0	7.8	7.9	---	---	---	---	---	---	---	---	---
25	8.1	7.8	7.9	---	---	---	---	---	---	---	---	---
26	8.0	7.8	7.9	---	---	---	---	---	---	---	---	---
27	7.9	7.8	7.8	---	---	---	---	---	---	---	---	---
28	8.0	7.8	7.8	---	---	---	---	---	---	---	---	---
29	7.9	7.9	7.9	---	---	---	---	---	---	---	---	---
30	8.0	7.8	7.9	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Max	9.5	8.0	8.8	---	---	---	---	---	---	---	---	---
Min	7.7	7.7	7.7	---	---	---	---	---	---	---	---	---

03025500 ALLEGHENY RIVER AT FRANKLIN, PA—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	8.0	7.5	7.6
5	---	---	---	---	---	---	---	---	---	7.8	7.5	7.6
6	---	---	---	---	---	---	---	---	---	8.1	7.5	7.7
7	---	---	---	---	---	---	---	---	---	8.0	7.6	7.7
8	---	---	---	---	---	---	---	---	---	7.7	7.5	7.6
9	---	---	---	---	---	---	---	---	---	7.7	7.6	7.6
10	---	---	---	---	---	---	---	---	---	7.8	7.6	7.6
11	---	---	---	---	---	---	---	---	---	8.0	7.6	7.7
12	---	---	---	---	---	---	---	---	---	8.2	7.6	7.8
13	---	---	---	---	---	---	---	---	---	8.3	7.6	7.9
14	---	---	---	---	---	---	---	---	---	8.5	7.6	7.8
15	---	---	---	---	---	---	---	---	---	8.6	7.7	8.1
16	---	---	---	---	---	---	---	---	---	8.7	7.7	8.2
17	---	---	---	---	---	---	---	---	---	8.9	7.8	8.4
18	---	---	---	---	---	---	---	---	---	9.0	7.8	8.5
19	---	---	---	---	---	---	---	---	---	9.0	7.9	8.6
20	---	---	---	---	---	---	---	---	---	9.0	7.9	8.6
21	---	---	---	---	---	---	---	---	---	8.9	7.9	8.5
22	---	---	---	---	---	---	---	---	---	9.0	7.8	8.5
23	---	---	---	---	---	---	---	---	---	8.9	7.8	8.5
24	---	---	---	---	---	---	---	---	---	8.8	7.8	8.4
25	---	---	---	---	---	---	---	---	---	8.8	7.7	8.3
26	---	---	---	---	---	---	---	---	---	8.8	7.7	8.3
27	---	---	---	---	---	---	---	---	---	8.8	7.7	8.0
28	---	---	---	---	---	---	---	---	---	8.7	7.6	8.2
29	---	---	---	---	---	---	---	---	---	8.6	7.6	8.2
30	---	---	---	---	---	---	---	---	---	8.9	7.6	8.4
31	---	---	---	---	---	---	---	---	---	8.9	7.7	8.5
Max	---	---	---	---	---	---	---	---	---	9.0	7.9	8.6
Min	---	---	---	---	---	---	---	---	---	7.7	7.5	7.6

03025500 ALLEGHENY RIVER AT FRANKLIN, PA—Continued

pH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	8.6	7.8	8.0	9.0	7.6	8.5	9.1	7.6	8.5	8.7	7.4	8.2
2	7.8	7.6	7.7	8.9	7.6	8.5	9.2	7.6	8.6	8.6	7.4	8.1
3	8.0	7.6	7.7	8.7	7.6	8.3	9.2	7.7	8.6	8.6	7.4	8.0
4	8.2	7.6	7.8	8.7	7.5	8.1	9.0	7.7	8.6	8.1	7.3	7.6
5	8.5	7.6	8.0	9.0	7.5	8.4	8.7	7.5	8.1	8.4	7.3	7.9
6	8.7	7.7	8.3	9.0	7.6	8.4	9.0	7.4	8.5	8.4	7.3	7.9
7	8.9	7.7	8.5	9.0	7.6	8.5	9.0	7.6	8.6	8.5	7.3	7.9
8	9.0	7.8	8.7	9.0	7.6	8.4	9.0	7.6	8.5	8.3	7.3	7.7
9	9.2	7.8	8.8	9.0	7.6	8.5	8.9	7.5	8.2	8.4	7.4	7.9
10	9.2	7.9	8.8	9.0	7.6	8.5	8.8	7.4	8.2	8.5	7.4	8.0
11	9.2	8.0	8.7	9.1	7.7	8.6	8.7	7.5	8.1	8.6	7.4	8.1
12	8.8	7.7	8.3	9.0	7.7	8.6	8.8	7.5	8.3	8.5	7.5	8.1
13	9.0	7.7	8.6	9.1	7.7	8.6	9.0	7.6	8.6	8.6	7.5	8.2
14	9.0	8.0	8.7	8.9	7.8	8.5	8.9	7.7	8.5	8.6	7.5	8.1
15	9.0	7.9	8.6	8.8	7.6	8.4	8.9	7.6	8.5	8.7	7.2	8.3
16	9.0	7.9	8.6	8.9	7.6	8.3	9.0	7.8	8.6	8.7	7.5	8.3
17	8.9	8.0	8.6	9.0	7.4	8.5	8.7	7.6	8.4	8.7	7.5	8.3
18	8.9	7.8	8.4	8.9	7.6	8.4	9.0	7.6	8.5	8.4	7.5	8.0
19	8.9	7.8	8.5	8.7	7.5	8.2	9.0	7.6	8.6	8.5	7.3	7.9
20	8.9	7.7	8.4	8.6	7.5	8.0	9.0	7.6	8.5	8.6	7.6	8.2
21	8.9	7.7	8.4	8.9	7.5	8.4	8.9	7.7	8.4	8.6	7.6	8.2
22	8.8	7.7	8.3	9.1	7.7	8.6	8.8	7.6	8.4	8.4	7.5	8.1
23	8.9	7.7	8.4	9.1	7.7	8.6	8.8	7.6	8.4	8.3	7.5	7.9
24	9.0	7.7	8.5	9.1	7.7	8.7	8.8	7.6	8.3	8.4	7.5	7.9
25	8.9	7.7	8.4	9.1	7.7	8.7	8.8	7.5	8.2	8.4	7.4	7.8
26	9.0	7.7	8.6	8.9	7.5	8.1	8.7	7.5	8.1	7.9	7.4	7.5
27	9.0	7.8	8.6	8.6	7.4	7.9	8.5	7.4	8.0	8.3	7.3	7.7
28	9.1	7.8	8.6	8.5	7.4	7.8	8.7	7.4	8.2	8.6	7.3	7.8
29	8.9	7.6	8.3	8.7	7.4	7.8	8.7	7.5	8.1	8.7	7.4	8.1
30	8.9	7.5	8.3	8.8	7.3	8.2	8.7	7.5	8.2	8.7	7.5	8.3
31	---	---	---	9.2	7.4	8.5	8.7	7.6	8.2	---	---	---
Max	9.2	8.0	8.8	9.2	7.8	8.7	9.2	7.8	8.6	8.7	7.6	8.3
Min	7.8	7.5	7.7	8.5	7.3	7.8	8.5	7.4	8.0	7.9	7.2	7.5

03025500 ALLEGHENY RIVER AT FRANKLIN, PA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	12.6	8.2	9.8	---	---	---	---	---	---	---	---	---
2	12.5	9.1	10.5	---	---	---	---	---	---	---	---	---
3	13.6	9.8	11.0	---	---	---	---	---	---	---	---	---
4	13.2	9.6	10.9	---	---	---	---	---	---	---	---	---
5	13.2	9.5	11.0	---	---	---	---	---	---	---	---	---
6	13.8	9.4	11.1	---	---	---	---	---	---	---	---	---
7	15.0	9.0	11.3	---	---	---	---	---	---	---	---	---
8	16.0	8.8	11.5	---	---	---	---	---	---	---	---	---
9	16.9	8.4	11.6	---	---	---	---	---	---	---	---	---
10	17.2	8.1	11.7	---	---	---	---	---	---	---	---	---
11	17.1	8.1	11.6	---	---	---	---	---	---	---	---	---
12	12.0	7.8	9.4	---	---	---	---	---	---	---	---	---
13	14.9	8.1	10.5	---	---	---	---	---	---	---	---	---
14	12.5	7.6	9.2	---	---	---	---	---	---	---	---	---
15	9.8	8.3	8.9	---	---	---	---	---	---	---	---	---
16	9.4	9.0	9.2	---	---	---	---	---	---	---	---	---
17	9.8	9.4	9.7	---	---	---	---	---	---	---	---	---
18	9.9	9.7	9.8	---	---	---	---	---	---	---	---	---
19	9.9	9.5	9.7	---	---	---	---	---	---	---	---	---
20	9.8	9.4	9.6	---	---	---	---	---	---	---	---	---
21	10.6	9.7	10.1	---	---	---	---	---	---	---	---	---
22	10.9	10.2	10.5	---	---	---	---	---	---	---	---	---
23	11.1	10.3	10.6	---	---	---	---	---	---	---	---	---
24	10.9	10.4	10.6	---	---	---	---	---	---	---	---	---
25	11.7	10.5	11.0	---	---	---	---	---	---	---	---	---
26	11.4	10.3	10.7	---	---	---	---	---	---	---	---	---
27	10.8	10.1	10.4	---	---	---	---	---	---	---	---	---
28	11.3	10.4	10.8	---	---	---	---	---	---	---	---	---
29	11.4	10.9	11.1	---	---	---	---	---	---	---	---	---
30	12.1	11.2	11.6	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Month	17.2	7.6	10.5	---	---	---	---	---	---	---	---	---

03025500 ALLEGHENY RIVER AT FRANKLIN, PA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	10.0	8.5	9.2
5	---	---	---	---	---	---	---	---	---	9.3	8.0	8.6
6	---	---	---	---	---	---	---	---	---	9.8	7.8	8.7
7	---	---	---	---	---	---	---	---	---	9.2	7.8	8.4
8	---	---	---	---	---	---	---	---	---	8.9	8.0	8.4
9	---	---	---	---	---	---	---	---	---	9.2	8.3	8.7
10	---	---	---	---	---	---	---	---	---	9.5	8.6	9.0
11	---	---	---	---	---	---	---	---	---	10.3	8.9	9.5
12	---	---	---	---	---	---	---	---	---	10.7	8.9	9.7
13	---	---	---	---	---	---	---	---	---	10.9	8.7	9.6
14	---	---	---	---	---	---	---	---	---	11.2	8.3	9.4
15	---	---	---	---	---	---	---	---	---	11.4	8.3	9.7
16	---	---	---	---	---	---	---	---	---	11.5	8.1	9.8
17	---	---	---	---	---	---	---	---	---	12.6	8.4	10.4
18	---	---	---	---	---	---	---	---	---	13.2	8.3	10.6
19	---	---	---	---	---	---	---	---	---	13.5	8.0	10.5
20	---	---	---	---	---	---	---	---	---	13.1	7.5	10.0
21	---	---	---	---	---	---	---	---	---	12.7	7.0	9.4
22	---	---	---	---	---	---	---	---	---	12.6	6.6	9.4
23	---	---	---	---	---	---	---	---	---	12.6	6.6	9.3
24	---	---	---	---	---	---	---	---	---	11.6	6.3	8.8
25	---	---	---	---	---	---	---	---	---	11.9	6.1	8.8
26	---	---	---	---	---	---	---	---	---	12.3	5.5	8.6
27	---	---	---	---	---	---	---	---	---	12.8	5.5	7.9
28	---	---	---	---	---	---	---	---	---	11.7	5.9	8.6
29	---	---	---	---	---	---	---	---	---	11.1	5.6	8.2
30	---	---	---	---	---	---	---	---	---	12.5	6.0	8.9
31	---	---	---	---	---	---	---	---	---	13.4	6.2	9.5
Month	---	---	---	---	---	---	---	---	---	13.5	5.5	9.2

03025500 ALLEGHENY RIVER AT FRANKLIN, PA—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	11.3	6.3	8.2	13.8	4.2	8.7	13.6	3.8	8.6	12.4	4.0	8.1
2	8.7	7.4	7.9	13.6	4.1	8.5	14.3	3.7	9.0	11.5	3.6	7.5
3	9.6	7.8	8.4	11.8	4.0	7.8	14.0	3.5	8.8	11.8	3.6	7.7
4	10.2	7.8	8.9	11.3	5.3	8.2	13.0	3.1	8.1	8.9	3.2	6.0
5	11.1	8.0	9.4	12.9	4.8	8.6	10.3	3.0	6.4	11.3	3.5	7.2
6	12.4	8.0	9.8	13.2	4.0	8.4	13.1	3.6	8.3	11.5	3.7	7.4
7	13.0	7.7	10.2	13.2	3.5	8.2	13.0	3.5	8.3	11.3	3.5	7.2
8	13.3	7.2	10.2	12.9	3.0	7.8	13.0	3.4	8.0	10.4	4.1	6.8
9	14.2	6.8	10.2	13.2	3.2	8.2	13.0	3.0	7.4	10.9	5.3	7.9
10	14.3	6.2	9.8	13.5	3.5	8.4	11.9	3.8	7.7	11.7	5.6	8.4
11	13.5	5.5	9.0	14.0	4.0	8.9	11.6	4.7	8.0	12.7	6.0	9.0
12	11.9	5.6	8.0	13.9	3.6	8.7	12.6	5.6	9.1	12.6	5.8	8.9
13	12.6	6.3	9.2	13.9	3.5	8.6	13.7	5.7	9.7	12.8	5.3	8.8
14	12.6	6.5	9.3	12.2	3.9	8.1	13.3	4.9	9.0	12.4	4.7	8.1
15	12.7	6.1	9.2	11.6	4.2	7.9	13.4	4.7	8.9	12.6	4.9	8.6
16	13.2	5.8	9.2	12.4	4.6	8.2	13.9	4.8	9.4	13.1	5.6	9.1
17	12.0	5.7	8.8	13.0	3.9	8.3	11.5	4.2	7.7	13.4	5.5	9.4
18	12.2	5.6	8.5	12.9	3.5	8.0	13.6	4.9	9.2	9.9	5.6	7.8
19	12.8	5.3	8.7	11.3	3.1	7.0	13.3	4.9	9.2	12.3	6.1	8.9
20	12.8	4.3	8.2	10.1	3.8	7.0	13.0	4.7	9.1	12.6	7.0	9.5
21	12.9	3.9	8.1	13.2	5.2	8.9	12.8	4.8	8.9	12.4	5.6	8.7
22	12.6	3.9	7.9	14.4	5.0	9.5	13.0	4.7	8.8	11.2	5.8	8.1
23	13.4	4.2	8.5	13.8	3.9	8.8	12.7	4.6	8.7	11.6	6.8	9.0
24	14.1	4.3	9.0	13.1	3.5	8.3	12.7	4.3	8.5	12.7	7.5	9.7
25	13.0	4.5	8.7	13.6	3.7	8.6	12.4	4.0	8.2	13.1	7.8	9.9
26	14.1	5.4	9.7	12.0	3.4	6.5	11.4	3.9	7.6	9.9	7.1	8.2
27	14.6	5.3	9.9	10.5	4.1	7.0	10.7	3.9	7.4	12.5	7.2	9.1
28	14.8	4.8	9.5	9.8	5.1	7.2	11.9	3.8	7.9	13.2	7.0	9.7
29	13.1	4.0	8.1	11.4	5.5	7.9	12.2	4.5	8.2	14.6	7.3	10.5
30	13.3	4.1	8.4	11.8	4.9	8.1	12.4	4.4	8.5	14.6	6.8	10.3
31	---	---	---	13.9	4.6	9.1	12.5	4.7	8.5	---	---	---
Month	14.8	3.9	9.0	14.4	3.0	8.2	14.3	3.0	8.4	14.6	3.2	8.5