Water-Data Report 2013

01646500 POTOMAC RIVER NEAR WASHINGTON, DC

Potomac
Middle Potomac-Catoctin

LOCATION.--Lat 38°56'59.2", long 77°07'39.5" referenced to North American Datum of 1983, Montgomery County, MD, Hydrologic Unit 02070008, on left bank just upstream from Little Falls Dam, 1 mi upstream from District of Columbia boundary line, 1.2 mi upstream from Chain Bridge, 1.8 mi east of Langley, Fairfax County, and at mile 117.4.

DRAINAGE AREA.--11,560 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1930 to current year.

REVISED RECORDS.--WSP 726: Drainage area. WDR MD-DE-75-1: 1973-74(M).

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 37.20 ft above North American Vertical Datum of 1988. Prior to June 7, 1930, nonrecording gage, and June 7, 1930 to Jan. 22, 1965, water-stage recorder at site 1 mi upstream on right bank at same gage datum.

REMARKS.--No estimated daily discharges. Records good. Diversions since June 1959. **For unregulated statistics of monthly mean data and summary statistics for water years 1930 to 1958, reference WDR MD-DE-DC-02-1.** Diversions at Great Falls through aqueducts and since June 1959, from gage pool at Little Falls Dam, for municipal supply of Washington, DC.; since October 1958, at Rockville Filtration Plant, for supply of city of Rockville; since April 1961, at Potomac Filtration Plant, for water supply of Washington Suburban Sanitary District; since October 1961, at Fairfax Water Treatment Plant for water supply of city of Fairfax (from Goose Creek); since April 1964, at Violets Lock to Chesapeake and Ohio Canal; and since October 1985, at Fairfax County Water Authority Treatment Plant for water supply of the county. Low flow affected slightly prior to July 1981 by Stony River Reservoir, since December 1950, by Savage River Reservoir (see station 01597500), and since July 1981, by Jennings Randolph Lake. U.S. Geological Survey satellite data-collection platform at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 2, 1889, was of approximately the same magnitude as that of March 19, 1936.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 45,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 31	1430	*141,000	*10.33
Jan 18	0945	49,000	6.65
Feb 1	1715	102,000	8.94
Mar 14	1700	46,000	6.49
May 10	0230	100,000	8.87

Minimum discharge, 1,600 ft^3/s, Sept. 30.

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4,730	76,800	3,990	10,600	91,400	15,700	14,200	9,120	6,440	5,890	3,670	3,180
2	6,420	35,100	3,870	10,100	82,100	16,000	14,300	8,670	6,040	5,190	3,370	5,130
3	8,140	22,600	3,770	9,720	49,700	15,000	15,300	7,960	8,740	6,240	3,260	5,000
4	7,700	16,900	3,690	9,480	34,800	13,500	16,500	7,840	6,970	5,510	3,210	4,270
5	6,000	13,700	3,630	9,040	27,800	12,200	16,500	7,070	6,330	5,020	3,000	3,550
6	4,910	11,500	3,530	8,510	23,000	12,200	14,900	6,560	5,390	4,510	2,770	3,020
7	4,220	9,990	3,430	8,110	19,100	14,100	13,500	6,700	8,350	4,310	2,860	2,870
8	3,800	8,800	3,410	7,880	16,800	14,500	12,500	8,370	9,130	4,290	2,900	2,740
9	3,510	7,910	3,520	7,970	15,100	14,400	11,400	51,400	7,760	4,690	3,450	2,500
10	3,250	7,220	3,630	8,160	13,400	14,700	10,900	89,900	15,800	4,860	3,130	2,320
11	3,070	6,640	3,850	8,150	12,700	14,700	11,000	59,700	22,400	5,160	3,500	2,190
12	2,920	6,120	4,330	8,330	12,300	20,400	12,200	46,100	18,100	8,650	4,110	2,540
13	2,810	6,870	4,670	10,300	11,800	36,200	13,000	38,800	23,900	6,440	4,640	3,020
14	2,740	8,250	4,900	13,700	11,500	43,600	19,000	30,700	21,700	11,600	4,180	2,650
15	2,570	7,900	4,900	17,000	11,500	40,000	22,300	24,200	17,500	12,100	3,690	2,210
16	2,760	7,040	4,750	23,300	11,500	30,400	18,800	20,400	15,500	10,500	3,610	1,880
17	2,570	6,940	4,580	37,400	11,200	24,500	16,100	17,000	13,800	8,160	3,840	1,860
18	2,430	6,600	4,520	47,500	10,400	20,600	14,700	14,800	11,400	6,540	3,580	1,860
19	3,020	6,080	4,400	39,900	9,590	19,600	13,800	12,800	10,700	5,350	3,090	1,810
20	5,280	5,700	4,590	29,900	9,250	18,800	16,400	11,200	11,400	4,600	2,820	1,770
21	5,170	5,410	6,160	23,900	8,920	19,800	16,100	10,200	10,900	4,500	2,580	1,830
22	3,830	5,140	11,800	20,100	8,450	22,400	17,900	9,280	9,310	4,220	2,540	2,400
23	3,220	4,940	14,800	16,500	8,120	21,300	17,100	9,250	7,870	4,580	2,720	2,030
24	2,900	4,770	13,200	13,400	7,790	18,800	15,300	12,600	6,630	6,010	2,920	1,990
25	2,760	4,470	11,500	11,200	7,320	16,800	13,900	13,300	6,180	8,690	2,800	2,000
26	2,680	4,250	12,100	9,470	7,190	16,300	12,700	12,600	5,630	7,710	3,120	1,980
27	2,540	4,240	19,700	8,940	11,000	16,100	11,600	11,100	5,300	5,750	4,200	1,980
28	2,450	4,190	19,000	8,750	15,800	16,300	10,300	9,590	5,590	5,530	5,020	1,890
29	8,080	4,250	14,800	8,920	---	16,300	9,500	8,650	5,600	4,530	4,350	1,840
30	76,200	4,190	12,700	9,150	---	15,500	9,210	7,630	5,800	4,110	3,440	1,710
31	134,000	---	11,400	64,100	---	14,600	---	7,020	---	3,710	3,010	---
Total	326,680	324,510	229,120	519,480	559,530	605,300	430,910	590,510	316,160	188,950	105,380	76,020
Mean	10,540	10,820	7,391	16,760	19,980	19,530	14,360	19,050	10,540	6,095	3,399	2,534
Max	134,000	76,800	19,700	64,100	91,400	43,600	22,300	89,900	23,900	12,100	5,020	5,130
Min	2,430	4,190	3,410	7,880	7,190	12,200	9,210	6,560	5,300	3,710	2,540	1,710
Cfsm	0.91	0.94	0.64	1.45	1.73	1.69	1.24	1.65	0.91	0.53	0.29	0.22
In.	1.05	1.04	0.74	1.67	1.80	1.95	1.39	1.90	1.02	0.61	0.34	0.24
Diversions	514	509	490	498	492	473	495	539	571	604	589	595
Mean (adjusted for diversion)	11,040	11,330	7,886	17,260	20,480	20,010	14,850	19,590	11,110	6,700	3,988	3,129
Cfsm (adjusted for diversion)	0.95	0.98	0.68	1.49	1.77	1.73	1.28	1.69	0.96	0.58	0.34	0.27
In. (adjusted for diversion)	1.10	1.09	0.79	1.72	1.85	2.00	1.43	1.95	1.07	0.67	0.40	0.30

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6,048	7,546	11,310	13,800	16,560	23,470	20,130	15,000	9,018	4,812	4,522	4,996
Max	44,100	42,030	37,630	52,890	61,040	76,510	57,850	40,410	46,630	21,040	28,210	44,620
(WY)	(1943)	(1986)	(1997)	(1996)	(1998)	(1936)	(1993)	(1989)	(1972)	(1949)	(1955)	(1996)
Min	583	700	1,038	1,682	1,882	4,495	5,810	3,921	1,536	599	538	679
(WY)	(1931)	(1931)	(1966)	(1981)	(2002)	(2009)	(1995)	(1969)	(1999)	(1999)	(1966)	(1930)

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1930 - 2013	
Annual total	3,267,200		4,272,550			
Annual mean	8,927		11,710		11,460	
Annual mean ‡	9,472		12,240		11,920	
Highest annual mean					23,760	1996
Highest annual mean ‡					24,370	1996
Lowest annual mean					4,017	2002
Highest daily mean	134,000	Oct 31	134,000	Oct 31	426,000	Mar 19, 1936
Lowest daily mean	1,720	Sep 17	1,710	Sep 30	[a]121	Sep 9, 1966
Lowest daily mean ‡	2,330	Sep 17	2,310	Sep 30	[b]601	Sep 10, 1966
Annual seven-day minimum	1,930	Jul 13	1,890	Sep 15	181	Sep 7, 1966
Maximum peak flow			141,000	Oct 31	484,000	Mar 19, 1936
Maximum peak stage			10.33	Oct 31	[c]28.10	Mar 19, 1936
Instantaneous low flow			1,600	Sep 30	66	Sep 9, 1966
Annual runoff (cfsm)	0.772		1.01		0.991	
Annual runoff (cfsm) ‡	0.82		1.06		1.03	
Annual runoff (inches)	10.51		13.75		13.47	
Annual runoff (inches) ‡	11.16		14.39		14.00	
10 percent exceeds	16,500		20,900		25,600	
50 percent exceeds	6,140		8,110		6,540	
90 percent exceeds	2,570		2,810		1,680	

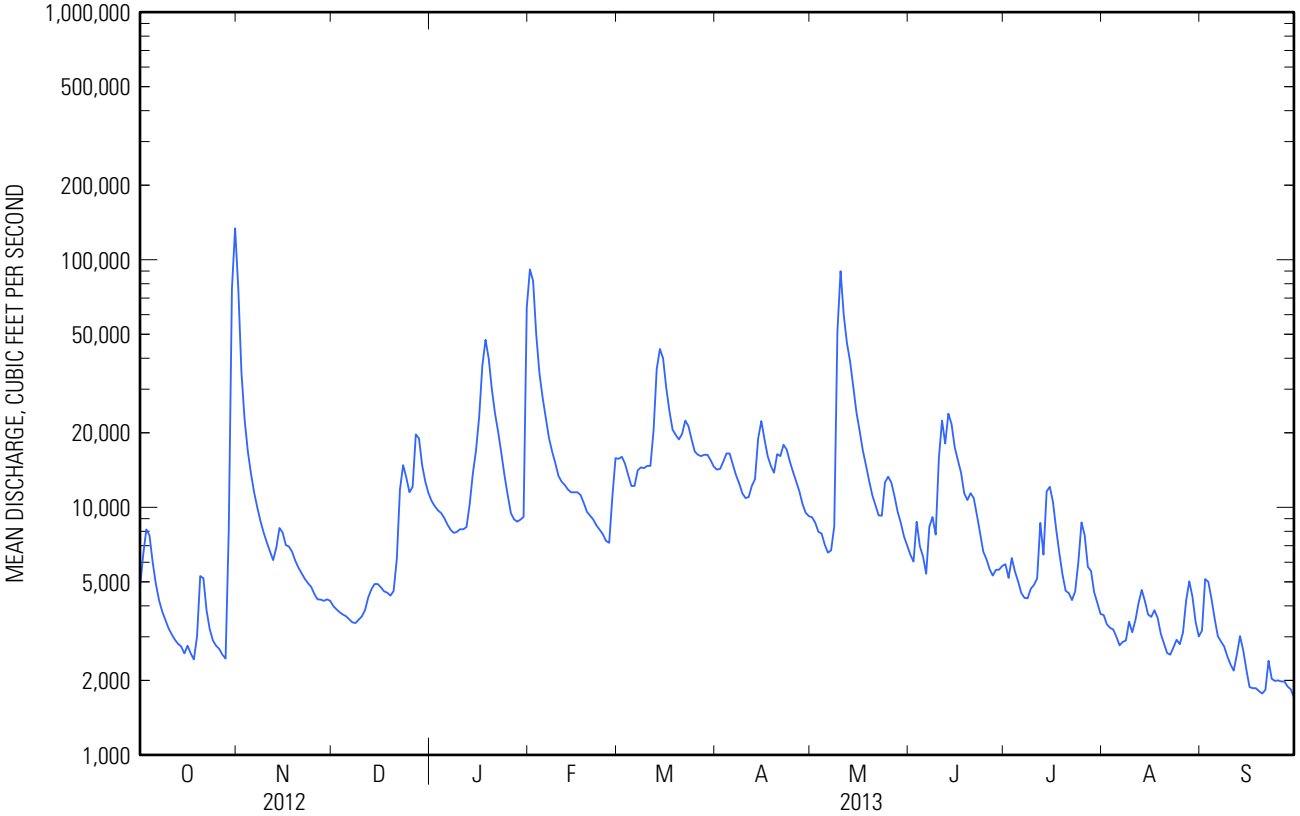
‡ Adjusted for diversion.

[a] Minimum daily discharge observed at gaging station, does not include diversion of 489 ft^3/s.

[b] Includes diversion of 449 ft^3/s.

[c] At previous site, 1 mi upstream at same gage datum.

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued



01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1989 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1988 to current year.
WATER TEMPERATURE 7.1 ft from riverbed (top): October 1988 to current year.
WATER TEMPERATURE 4.1 ft from riverbed (middle): July 2006 to current year.
WATER TEMPERATURE 1.0 ft from riverbed (bottom): July 2006 to current year.
NITRATE PLUS NITRITE IN SITU: December 2011 to September 2013.

INSTRUMENTATION.--Water-quality monitor (top) October 1988 to current year. Water temperature probes (middle, bottom) July 2006 to current year. Water-quality monitor (NITRATE PLUS NITRITE IN SITU) December 2011 to current year.

REMARKS.--Specific Conductance data rated excellent for entire 2013 water year except for the following periods; Feb. 15 to April 12, and May 15 to July 2, which are poor. Periods of missing data occurred when the sensor was being serviced.

Water Temperature data (top probe) rated excellent for entire 2013 water year. Period of missing data occurred when the sensor was being serviced or due to equipment malfunction.

Water Temperature data (middle probe) rated excellent for entire 2013 water year. Period of missing data occurred when the sensor was being serviced or due to equipment malfunction.

Water Temperature data (bottom probe) rated excellent for entire 2013 water year. Period of missing data occurred when the sensor was being serviced or due to equipment malfunction.

Nitrate Plus Nitrite In Situ data rated excellent for 2012, 2013 water years. Period of missing data occurred when sensor was being serviced, equipment malfunctioned, or turbidity obscured optics.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,820 microsiemens/cm (road salt influence), Feb. 6, 2004; minimum, 67 microsiemens/cm, Jun. 27, 2006.
WATER TEMPERATURE 7.1 ft from riverbed (top): Maximum, 35.3°C, July 24, 2010; minimum, -0.1°C, Dec. 22-25, 31, 2000, Jan 2, 3, 10, 2001, Jan. 16-22, 25, Feb. 6, 2009, Jan. 3, 4, 2010.
WATER TEMPERATURE 4.1 ft from riverbed (middle): Maximum, 34.0°C, July 23, 2011 and July 8, 2012; minimum, -0.5°C, Feb. 7, 8, 12, 2010.
WATER TEMPERATURE 1.0 ft from riverbed (bottom): Maximum, 33.5°C, July 8, 2012; minimum, -0.3°C, Jan. 16, 17, 2009.
NITRATE PLUS NITRITE IN SITU: Maximum 2.21 mg/l as N, November 11, 12, 2012; minimum, 0.34 mg/l as N, September 21, 2013.

EXTREMES FOR THE PERIOD OF DECEMBER 2011 TO SEPTEMBER 2012 .--
NITRATE PLUS NITRITE IN SITU: Maximum 1.94 mg/l as N, December 22; minimum, 0.37 mg/l as N, August 19.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 1,100 microsiemens/cm (road salt influence), March 6; minimum, 73 microsiemens/cm, Oct. 29.
WATER TEMPERATURE 7.1 ft from riverbed (top): Maximum, 33.4°C, July 19; minimum, 0.3°C, Jan. 25-27.
WATER TEMPERATURE 4.1 ft from riverbed (middle): Maximum, 33.5°C, July 19; minimum, 0.3°C, Jan. 25.
WATER TEMPERATURE 1.0 ft from riverbed (bottom): Maximum, 33.4°C, July 19; minimum, 0.2°C, Jan. 25-27.
NITRATE PLUS NITRITE IN SITU: Maximum 2.21 mg/l as N, November 11, 12; minimum, 0.34 mg/l as N, September 21.

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	343	333	338	191	164	181	376	368	373	322	312	317
2	334	134	280	206	191	199	376	368	373	322	320	321
3	284	235	270	228	206	218	377	370	374	321	314	317
4	308	260	283	241	228	235	379	371	376	322	315	316
5	319	308	316	257	241	249	380	373	377	326	322	323
6	315	310	312	270	257	264	387	374	377	328	324	326
7	317	311	313	285	270	277	379	375	378	330	327	328
8	330	317	325	297	283	290	380	375	378	329	326	328
9	338	329	334	310	297	305	385	375	380	328	327	328
10	346	338	343	319	310	315	390	381	386	327	322	325
11	355	345	351	328	317	324	385	381	384	323	322	323
12	364	355	360	335	324	331	387	384	386	325	322	324
13	368	362	366	345	316	332	392	379	385	323	318	320
14	375	367	371	328	317	324	386	380	384	318	311	316
15	384	374	379	324	313	319	392	385	390	315	282	301
16	394	382	386	336	324	328	398	391	395	285	231	254
17	390	384	387	348	335	343	401	396	399	253	224	237
18	395	389	392	355	348	351	399	386	394	245	208	231
19	393	353	378	363	353	359	387	376	382	208	202	205
20	373	311	342	364	357	361	379	374	377	212	208	210
21	378	369	376	359	353	356	376	203	306	220	212	215
22	371	318	341	359	354	357	353	323	339	232	220	227
23	323	317	319	366	356	362	328	244	277	240	232	237
24	338	320	330	373	366	371	324	303	316	249	240	244
25	351	338	346	375	371	373	303	263	282	260	249	253
26	367	350	358	378	371	375	508	257	305	274	260	269
27	377	367	371	380	372	377	287	243	269	284	273	279
28	385	376	380	381	373	378	291	259	274	383	283	304
29	386	73	290	379	372	376	288	275	279	390	328	347
30	201	80	155	378	369	374	300	285	293	451	336	351
31	256	145	199	---	---	---	312	300	308	918	168	282
Month	395	73	332	381	164	320	508	203	351	918	168	289

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

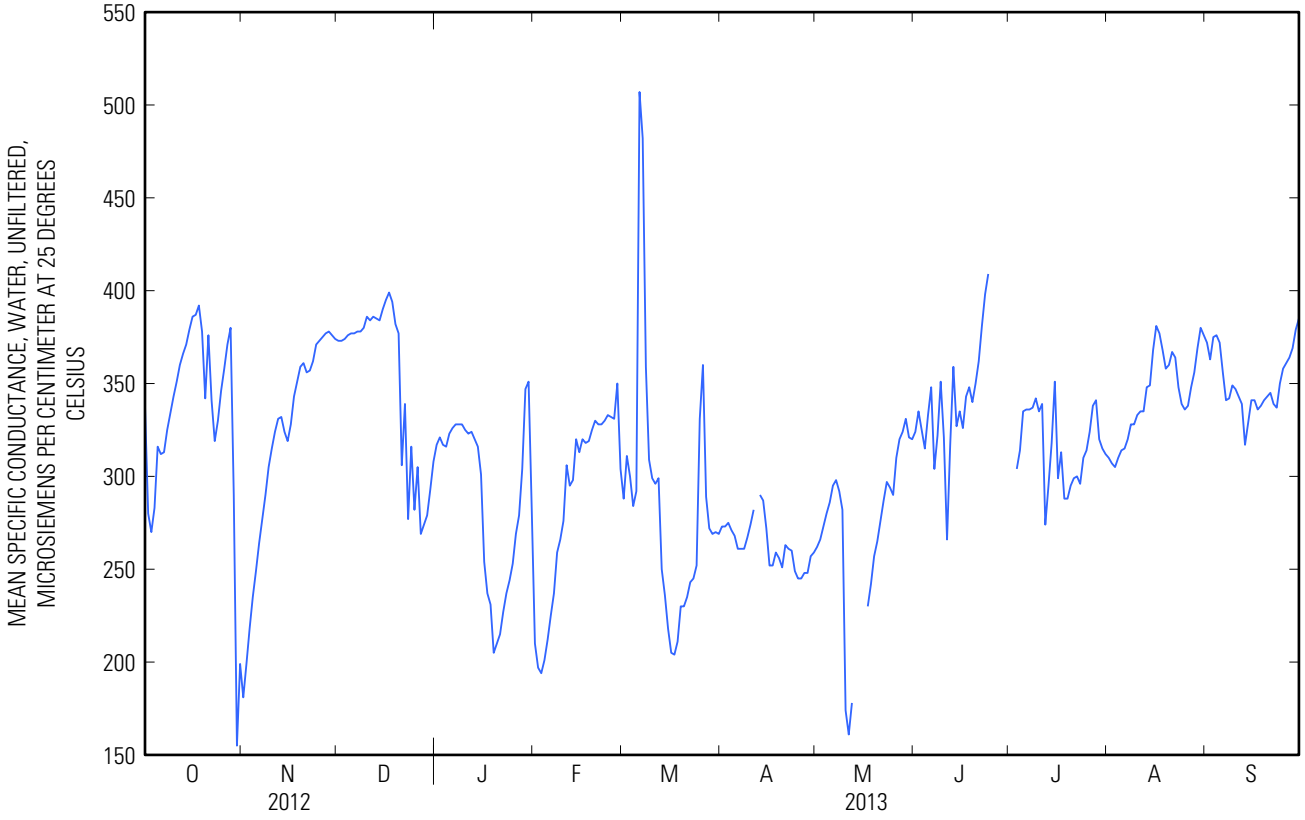
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	233	169	210	303	278	288	281	268	273	264	259	262
2	220	189	197	317	303	311	277	270	273	270	264	266
3	196	189	194	315	284	300	278	273	275	278	270	273
4	205	196	201	288	282	284	273	265	271	284	278	280
5	219	205	212	294	288	292	273	262	268	289	284	286
6	231	219	225	1,100	289	507	262	259	261	298	289	295
7	243	231	237	781	426	482	263	258	261	310	292	298
8	282	243	259	429	325	359	263	259	261	300	288	292
9	272	263	266	325	302	309	271	262	267	308	232	282
10	280	272	276	304	296	299	281	265	274	248	153	174
11	361	280	306	298	294	296	296	271	282	172	154	161
12	300	292	295	364	287	299	---	---	---	190	165	178
13	308	295	298	291	234	250	292	287	290	---	---	---
14	341	308	320	241	231	236	289	283	287	---	---	---
15	314	311	313	235	203	218	287	255	272	---	---	---
16	328	313	320	207	204	205	256	245	252	---	---	---
17	319	316	318	208	202	204	261	245	252	235	226	230
18	323	318	319	230	205	211	272	250	259	249	235	242
19	336	321	325	249	225	230	287	252	256	262	249	257
20	342	325	330	232	227	230	270	230	251	269	262	265
21	331	325	328	240	232	235	272	256	263	283	269	276
22	329	326	328	244	240	243	266	258	261	294	282	287
23	333	327	330	247	244	245	267	252	260	299	294	297
24	338	329	333	253	247	252	252	248	249	319	284	294
25	334	329	332	522	249	331	249	243	245	300	280	290
26	341	327	331	497	310	360	247	244	245	318	300	310
27	411	326	350	311	278	289	251	246	248	323	318	320
28	329	283	304	278	269	272	253	247	248	334	320	324
29	---	---	---	270	268	269	265	249	257	335	326	331
30	---	---	---	272	268	270	263	257	259	331	316	321
31	---	---	---	273	266	269	---	---	---	323	318	320
Month	411	169	288	1,100	202	285	---	---	---	---	---	---

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	328	320	324	---	---	---	314	306	310	377	366	372
2	342	328	335	---	---	---	312	302	307	370	356	363
3	343	317	325	332	249	304	309	301	305	383	368	375
4	326	303	315	330	290	314	314	304	310	385	370	376
5	342	314	333	338	330	335	316	311	314	379	365	372
6	352	342	348	340	333	336	319	313	315	369	345	356
7	351	258	304	340	334	336	328	314	320	346	336	341
8	334	292	322	342	335	337	331	324	328	350	334	342
9	367	334	351	347	338	342	335	325	328	355	344	349
10	370	160	321	343	330	335	338	326	333	351	343	347
11	297	166	266	347	333	339	340	330	335	349	337	343
12	368	292	317	338	188	274	344	330	335	344	307	339
13	380	308	359	307	287	295	354	342	348	329	303	317
14	333	324	327	362	287	318	358	344	349	339	320	329
15	339	329	335	363	311	351	376	357	368	344	337	341
16	329	324	326	319	286	299	387	376	381	345	338	341
17	362	327	343	323	301	313	385	370	377	340	331	336
18	360	343	348	301	283	288	378	360	368	340	335	338
19	349	336	340	292	284	288	364	353	358	346	338	341
20	355	344	350	301	291	295	365	354	360	345	340	343
21	373	346	362	305	295	299	371	362	367	347	335	345
22	387	373	381	306	287	300	369	357	364	345	331	339
23	412	387	398	304	288	296	357	337	348	348	331	337
24	412	405	409	316	300	310	342	336	339	354	344	350
25	---	---	---	317	310	314	338	333	336	359	354	358
26	---	---	---	329	317	324	342	332	338	365	355	361
27	---	---	---	343	329	338	353	340	348	366	362	364
28	---	---	---	349	324	341	362	350	356	374	366	369
29	---	---	---	327	315	320	379	362	369	383	373	379
30	---	---	---	322	310	315	384	377	380	388	381	385
31	---	---	---	318	308	312	379	372	376	---	---	---
Month	---	---	---	---	---	---	387	301	344	388	303	352

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued



01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	20.9	19.4	20.4	10.1	9.6	9.9	6.2	5.1	5.7	2.8	2.5	2.6
2	20.3	18.6	19.5	9.8	9.4	9.6	6.5	5.5	6.0	3.3	2.6	2.9
3	20.1	19.2	19.6	9.6	9.2	9.3	7.4	6.1	6.7	3.2	2.4	2.8
4	20.7	19.6	20.1	9.6	8.7	9.1	8.5	7.2	7.6	3.1	2.1	2.5
5	21.6	19.8	20.7	9.6	8.9	9.2	8.6	8.1	8.4	3.1	2.1	2.5
6	21.2	20.1	20.7	9.3	8.6	8.9	8.6	7.8	8.2	3.6	2.3	2.9
7	20.5	18.5	19.2	8.9	8.1	8.7	8.3	7.3	7.7	4.0	3.0	3.4
8	18.5	16.8	17.4	8.8	7.9	8.3	8.8	7.7	8.1	4.0	3.0	3.4
9	16.8	16.0	16.4	8.9	7.5	8.1	8.8	8.5	8.6	3.7	3.1	3.3
10	17.4	16.2	16.7	9.4	7.8	8.5	9.6	8.8	9.1	4.3	3.0	3.5
11	17.4	15.8	16.8	10.2	8.3	9.2	9.6	9.1	9.3	4.1	3.5	3.8
12	17.0	15.7	16.2	10.8	9.1	9.9	9.2	8.4	8.7	5.3	3.9	4.6
13	16.0	14.9	15.5	10.8	9.9	10.4	8.5	7.3	8.0	5.6	4.8	5.3
14	16.1	14.8	15.5	10.1	9.0	9.5	8.2	6.6	7.2	6.2	5.6	6.0
15	16.1	15.7	15.9	9.4	8.7	9.1	7.3	5.9	6.7	6.3	6.0	6.2
16	16.5	15.5	16.0	9.4	8.5	8.8	7.2	6.4	6.8	6.2	5.8	6.0
17	16.3	15.3	15.9	9.1	7.9	8.4	7.6	6.9	7.2	6.2	5.9	6.1
18	16.3	15.5	15.9	8.8	7.6	8.2	8.3	7.5	7.8	6.0	5.3	5.8
19	16.9	16.2	16.6	8.9	7.9	8.4	8.1	7.2	7.8	5.5	4.9	5.2
20	17.1	16.2	16.6	9.1	8.0	8.6	8.0	7.1	7.4	5.7	4.9	5.3
21	16.6	15.2	15.9	9.5	7.9	8.7	8.0	6.5	7.5	5.5	4.7	5.0
22	16.3	14.6	15.7	9.1	7.7	8.5	7.0	4.5	5.4	4.7	2.6	3.4
23	16.6	14.9	15.8	8.9	7.4	8.3	4.7	4.1	4.3	2.7	1.7	2.0
24	17.1	15.9	16.5	8.6	7.2	7.6	4.4	3.8	4.0	1.9	1.2	1.5
25	17.7	16.9	17.2	7.3	5.7	6.2	4.5	3.8	4.1	1.2	0.3	0.8
26	17.9	17.6	17.7	6.2	4.5	5.4	4.1	2.8	3.6	1.0	0.3	0.6
27	18.1	17.7	17.9	6.3	5.2	5.6	3.5	2.8	3.2	1.7	0.3	0.9
28	18.0	16.7	17.3	6.2	5.1	5.6	3.0	2.5	2.8	1.7	0.8	1.4
29	16.7	10.2	14.5	6.3	4.8	5.6	3.1	2.9	3.0	3.3	1.4	2.2
30	11.1	9.9	10.5	6.2	4.9	5.6	3.5	2.8	3.1	5.2	2.7	4.0
31	10.9	9.9	10.4	---	---	---	3.0	2.5	2.7	10.9	5.2	8.3
Month	21.6	9.9	16.8	10.8	4.5	8.2	9.6	2.5	6.3	10.9	0.3	3.7

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

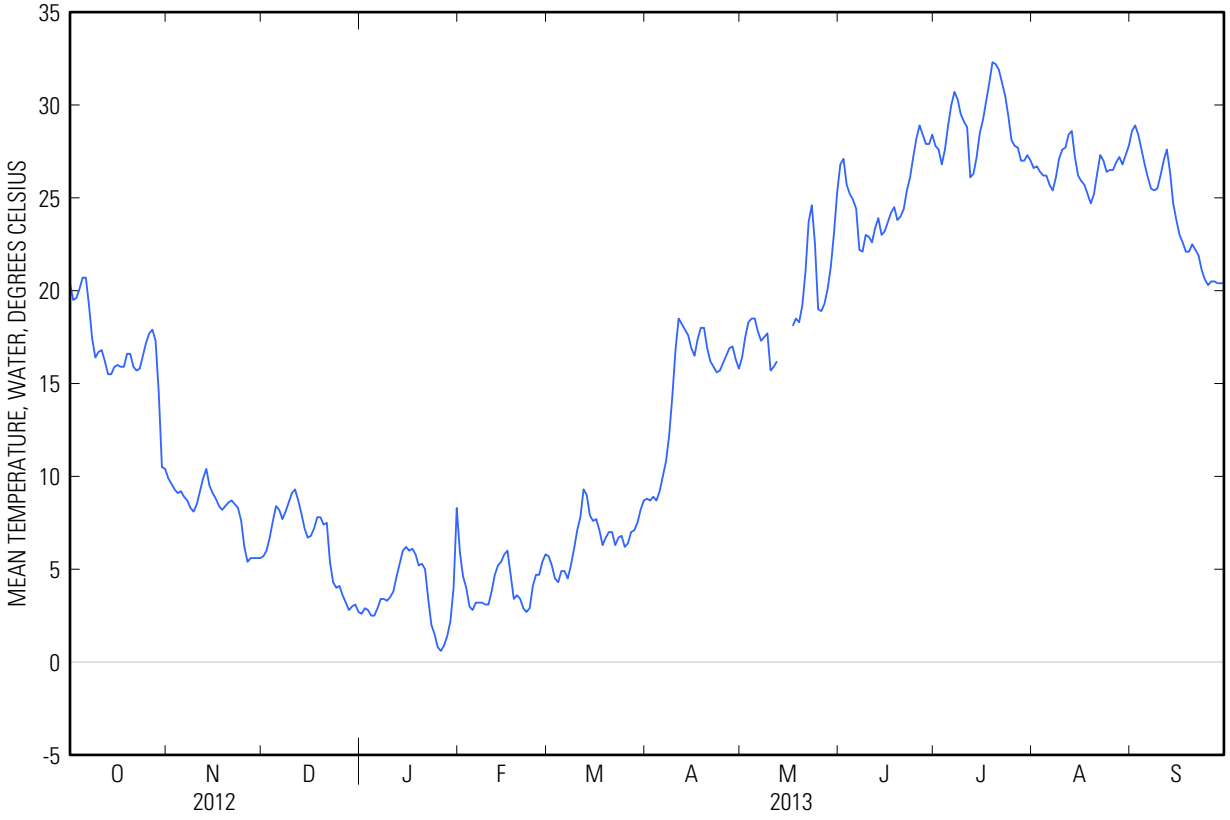
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	7.5	4.9	5.9	5.9	5.5	5.7	9.3	8.2	8.8	18.0	15.2	16.4
2	4.9	4.2	4.6	5.7	5.0	5.2	9.3	7.9	8.7	18.9	16.6	17.5
3	4.2	3.6	4.0	5.0	4.1	4.5	9.4	8.0	8.9	19.7	17.1	18.3
4	3.6	2.8	3.0	4.9	3.7	4.3	9.3	8.1	8.7	19.8	17.6	18.5
5	3.0	2.5	2.8	5.6	4.4	4.9	10.1	8.3	9.2	19.7	17.7	18.5
6	3.7	2.7	3.2	5.6	3.9	4.9	10.7	9.2	10.0	18.4	17.5	17.8
7	3.6	3.0	3.2	5.3	3.9	4.5	11.5	10.0	10.8	17.5	17.0	17.3
8	3.4	3.1	3.2	5.8	4.6	5.2	13.1	11.4	12.2	18.5	16.9	17.5
9	3.5	2.7	3.1	6.9	5.4	6.1	15.5	13.0	14.3	18.6	16.6	17.7
10	3.4	2.6	3.1	7.7	6.5	7.1	18.0	15.3	16.8	16.6	15.3	15.7
11	4.0	3.4	3.8	8.4	7.4	7.8	19.6	17.3	18.5	17.1	15.5	15.9
12	5.5	4.0	4.7	11.0	8.4	9.3	18.6	17.6	18.2	16.8	15.8	16.2
13	5.5	5.0	5.2	9.4	8.5	9.0	18.4	17.5	17.9	---	---	---
14	6.2	4.9	5.4	8.5	7.4	7.9	18.0	17.1	17.6	---	---	---
15	6.6	5.2	5.8	8.1	7.0	7.6	17.9	16.6	16.9	---	---	---
16	6.3	5.4	6.0	8.1	7.2	7.7	17.1	15.8	16.5	---	---	---
17	5.4	3.5	4.7	7.8	6.8	7.1	18.0	16.8	17.4	19.0	17.1	18.1
18	4.2	2.9	3.4	6.8	6.1	6.3	18.3	17.7	18.0	19.2	18.1	18.5
19	3.8	3.1	3.6	7.6	6.0	6.7	18.1	17.9	18.0	18.8	18.0	18.3
20	4.1	2.9	3.4	7.8	6.1	7.0	17.9	16.3	16.9	20.0	18.6	19.2
21	3.7	2.5	2.9	7.8	6.6	7.0	16.7	15.6	16.2	22.3	19.7	21.0
22	2.9	2.5	2.7	6.9	5.7	6.3	16.4	15.1	15.9	25.2	21.8	23.7
23	3.3	2.5	2.9	7.5	5.8	6.7	16.2	15.2	15.6	25.2	23.9	24.6
24	5.3	3.2	4.1	7.5	6.6	6.8	16.4	14.9	15.7	24.0	20.0	22.5
25	5.8	3.9	4.7	6.8	5.9	6.2	16.7	15.3	16.1	20.0	18.3	19.0
26	5.0	4.3	4.7	7.1	5.7	6.4	17.3	15.9	16.5	19.7	18.1	18.9
27	6.1	4.8	5.4	7.4	6.3	7.0	17.7	16.3	16.9	19.9	19.0	19.3
28	6.1	5.5	5.8	7.5	6.7	7.1	17.5	16.2	17.0	20.9	19.4	20.1
29	---	---	---	8.4	6.6	7.5	16.4	15.7	16.3	22.9	19.9	21.3
30	---	---	---	9.0	7.3	8.2	16.1	15.5	15.8	24.5	21.8	23.1
31	---	---	---	9.1	8.4	8.7	---	---	---	27.2	23.4	25.3
Month	7.5	2.5	4.1	11.0	3.7	6.7	19.6	7.9	14.9	---	---	---

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	28.3	25.2	26.8	28.2	27.2	27.8	27.1	25.8	26.6	30.7	27.2	28.6
2	27.9	26.2	27.1	28.0	27.2	27.6	27.9	25.6	26.7	29.8	27.7	28.9
3	26.3	25.1	25.7	27.3	26.6	26.8	27.0	25.9	26.4	29.2	27.8	28.4
4	26.3	24.4	25.2	29.0	26.2	27.6	27.0	25.3	26.2	28.5	26.6	27.6
5	26.2	23.7	24.9	30.2	27.5	28.9	27.2	24.8	26.2	27.5	25.5	26.8
6	24.9	23.6	24.4	31.3	28.4	30.0	26.5	25.1	25.7	27.0	24.7	26.1
7	23.6	21.5	22.2	32.0	29.2	30.7	25.9	25.0	25.4	26.4	24.4	25.5
8	23.2	21.6	22.1	31.2	29.3	30.3	26.7	25.4	26.1	26.3	24.6	25.4
9	24.0	22.1	23.0	30.1	28.9	29.5	28.2	25.8	27.1	26.1	24.8	25.5
10	23.4	22.0	22.9	29.8	28.4	29.1	28.4	26.8	27.6	27.7	25.2	26.2
11	23.1	22.0	22.6	29.5	28.1	28.8	28.5	26.7	27.7	28.4	26.0	27.0
12	24.8	22.4	23.4	28.4	24.2	26.1	29.7	26.9	28.4	29.0	26.5	27.6
13	24.8	23.5	23.9	27.1	25.5	26.3	29.3	27.9	28.6	26.9	25.9	26.4
14	23.5	22.2	23.0	28.5	26.1	27.2	28.5	26.4	27.2	25.9	23.8	24.7
15	24.1	22.2	23.2	29.2	27.6	28.5	27.0	24.9	26.2	24.6	22.9	23.8
16	24.2	23.2	23.7	30.0	28.6	29.2	26.8	24.4	25.9	23.7	22.7	23.0
17	24.9	23.5	24.2	31.4	29.1	30.2	26.5	24.3	25.7	23.3	21.7	22.6
18	25.2	23.7	24.5	32.6	29.9	31.2	25.9	24.6	25.2	23.0	21.1	22.1
19	24.1	23.5	23.8	33.4	31.1	32.3	25.2	24.1	24.7	23.3	21.0	22.1
20	24.6	23.5	24.0	33.1	31.2	32.2	27.0	24.0	25.2	23.9	21.4	22.5
21	25.5	23.7	24.4	32.7	30.7	31.9	27.8	25.3	26.3	22.7	21.9	22.2
22	26.7	24.4	25.4	32.0	30.4	31.2	28.4	26.4	27.3	22.5	21.4	21.9
23	27.1	25.3	26.1	31.1	29.7	30.5	27.7	26.4	27.0	21.7	20.6	21.1
24	28.5	25.8	27.2	30.3	28.9	29.4	27.4	25.5	26.4	21.5	19.8	20.6
25	29.5	27.0	28.2	28.9	27.3	28.1	28.3	25.2	26.5	21.1	19.5	20.3
26	29.9	27.9	28.9	28.9	27.0	27.8	27.8	25.2	26.5	21.9	19.7	20.5
27	29.0	27.8	28.4	28.3	27.0	27.7	28.1	25.7	26.9	20.9	20.1	20.5
28	28.7	27.2	27.9	27.5	26.5	27.0	27.6	26.7	27.2	20.7	20.1	20.4
29	29.3	26.8	27.9	28.2	25.6	27.0	27.5	26.1	26.8	21.7	19.5	20.4
30	29.0	27.6	28.4	28.4	25.8	27.3	28.2	26.1	27.3	21.9	19.4	20.4
31	---	---	---	27.6	26.2	27.0	28.9	26.6	27.8	---	---	---
Month	29.9	21.5	25.1	33.4	24.2	28.9	29.7	24.0	26.6	30.7	19.4	24.0

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued



01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	21.0	19.5	20.4	10.2	9.7	10	6.3	5.1	5.7	3.1	2.5	2.7
2	20.3	18.7	19.5	9.9	9.5	9.7	6.6	5.4	5.9	3.4	2.6	2.9
3	20.2	19.3	19.6	9.7	9.3	9.4	7.4	6.0	6.6	3.3	2.4	2.8
4	20.8	19.7	20.2	9.7	8.8	9.2	8.5	6.9	7.5	3.1	2.1	2.6
5	21.7	19.9	20.7	9.7	9.0	9.3	8.7	8.1	8.4	3.1	2.1	2.5
6	21.3	20.2	20.8	9.4	8.7	9.0	8.7	7.6	8.2	3.6	2.3	2.9
7	20.4	18.5	19.2	9.0	8.2	8.7	8.3	7.0	7.5	4.1	3.0	3.4
8	18.6	16.9	17.4	8.8	7.8	8.3	8.8	7.7	8.1	4.1	3.0	3.4
9	17.0	16.1	16.5	8.9	7.6	8.1	8.8	8.4	8.6	3.7	3.1	3.4
10	17.5	16.2	16.8	9.4	7.9	8.6	9.7	8.8	9.1	4.3	3.0	3.5
11	17.5	15.8	16.8	10.3	8.4	9.2	9.7	9.2	9.4	4.2	3.5	3.9
12	17.0	15.7	16.2	10.9	9.2	9.9	9.4	8.3	8.7	5.3	3.9	4.6
13	16.1	14.7	15.6	10.9	10.0	10.5	8.6	7.4	8.0	5.7	4.9	5.3
14	16.2	14.8	15.5	10.1	9.1	9.6	8.0	6.5	7.2	6.3	5.7	6.0
15	16.2	15.8	16.0	9.5	8.8	9.2	7.2	6.0	6.6	6.3	6.1	6.2
16	16.6	15.6	16.1	9.5	8.6	8.9	7.1	6.3	6.7	6.3	5.8	6.1
17	16.4	15.2	15.9	9.2	8.0	8.5	7.6	6.9	7.1	6.3	6.0	6.1
18	16.3	15.4	15.8	8.9	7.7	8.3	8.4	7.5	7.9	6.0	5.3	5.8
19	17.0	16.3	16.6	9.0	8.0	8.4	8.2	7.3	7.7	5.5	4.9	5.2
20	17.2	16.2	16.7	9.2	8.1	8.7	8.0	7.0	7.4	5.8	4.9	5.3
21	16.7	15.4	16.0	9.6	8.0	8.7	8.2	6.4	7.4	5.6	4.7	5.0
22	16.4	14.6	15.6	9.2	7.9	8.5	6.5	4.5	5.4	4.8	2.7	3.4
23	16.7	14.8	15.7	9.0	7.4	8.2	4.8	4.1	4.4	2.9	1.6	2.0
24	17.2	15.9	16.4	8.5	6.9	7.4	4.4	3.8	4.0	1.9	1.1	1.5
25	17.7	16.8	17.2	7.1	5.7	6.0	4.5	3.8	4.1	1.3	0.3	0.8
26	18.0	17.6	17.8	6.2	4.5	5.4	4.3	2.7	3.6	1.1	0.4	0.6
27	18.2	17.7	17.9	6.1	5.2	5.5	3.6	2.8	3.2	1.7	0.4	0.9
28	18.1	16.6	17.3	6.1	5.2	5.6	3.1	2.5	2.8	1.7	0.8	1.4
29	16.6	10.3	14.5	6.3	4.9	5.6	3.3	2.8	3.0	3.3	1.4	2.2
30	11.2	10.0	10.7	6.2	4.9	5.6	3.5	2.8	3.1	5.2	2.7	4.0
31	11.0	10.0	10.5	---	---	---	3.2	2.5	2.7	11.0	5.2	8.4
Month	21.7	10.0	16.8	10.9	4.5	8.3	9.7	2.5	6.3	11.0	0.3	3.7

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

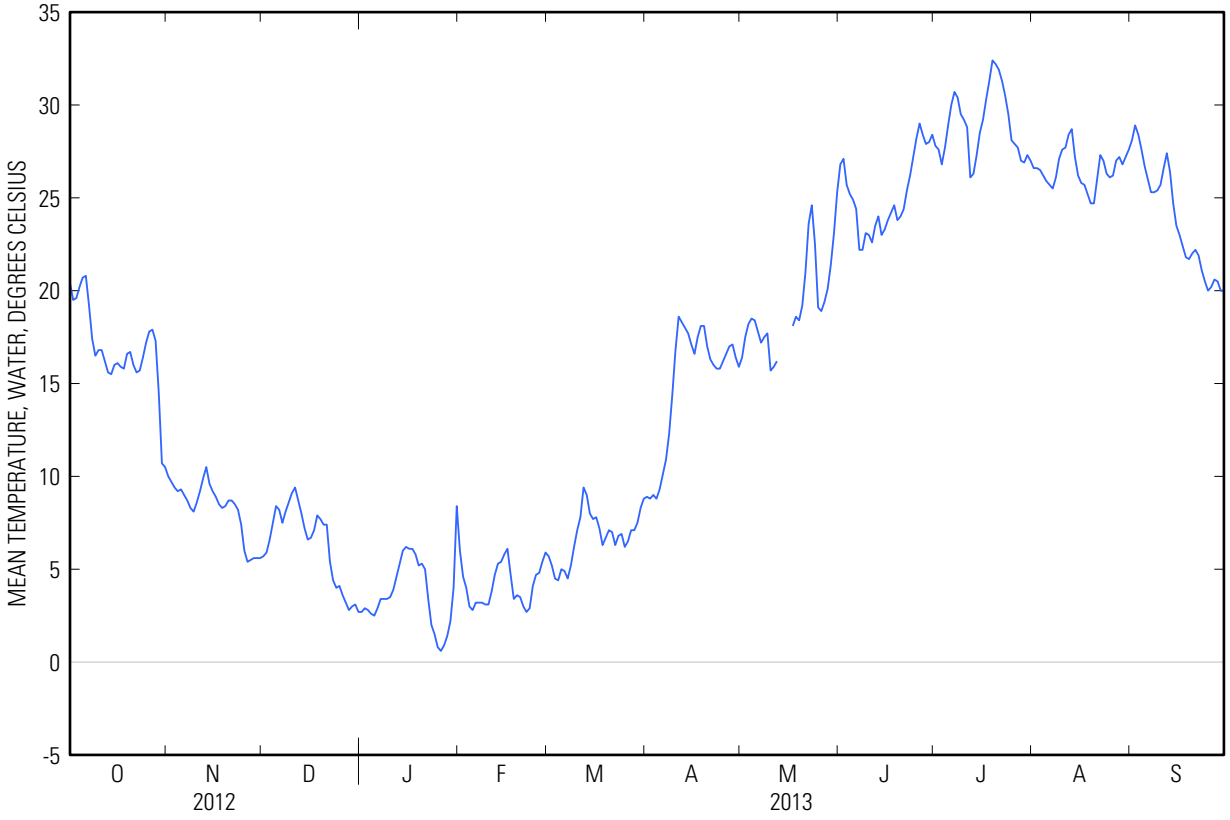
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	7.6	4.9	6.0	5.9	5.6	5.7	9.4	8.3	8.9	18.0	15.3	16.4
2	4.9	4.2	4.6	5.8	5.0	5.2	9.4	8.0	8.8	18.8	16.7	17.5
3	4.2	3.6	4.0	5.0	4.1	4.5	9.5	8.0	9.0	19.7	17.1	18.2
4	3.6	2.8	3.0	5.0	3.8	4.4	9.4	8.1	8.8	19.7	17.6	18.5
5	3.1	2.5	2.8	5.6	4.4	5.0	10.2	8.4	9.3	19.7	17.7	18.4
6	3.8	2.7	3.2	5.7	3.9	4.9	10.8	9.3	10.1	18.2	17.5	17.8
7	3.6	3.0	3.2	5.4	3.9	4.5	11.6	10.1	10.9	17.5	16.9	17.2
8	3.4	3.1	3.2	5.8	4.7	5.2	13.2	11.5	12.3	18.4	16.9	17.5
9	3.5	2.7	3.1	6.9	5.5	6.2	15.6	13.1	14.4	18.6	16.6	17.7
10	3.4	2.6	3.1	7.8	6.5	7.1	18.0	15.4	16.8	16.6	15.3	15.7
11	4.1	3.4	3.8	8.5	7.5	7.8	19.6	17.4	18.6	17.1	15.5	15.9
12	5.5	4.1	4.7	11.2	8.5	9.4	18.7	17.7	18.3	16.7	15.8	16.2
13	5.6	5.0	5.3	9.5	8.6	9.0	18.5	17.6	18.0	---	---	---
14	6.3	4.9	5.4	8.6	7.5	8.0	18.1	17.2	17.7	---	---	---
15	6.6	5.3	5.8	8.2	7.1	7.7	18.0	16.7	17.1	---	---	---
16	6.3	5.4	6.1	8.2	7.3	7.8	17.2	15.9	16.6	---	---	---
17	5.5	3.5	4.7	7.9	6.9	7.2	18.1	16.9	17.5	19.1	17.2	18.1
18	4.2	2.9	3.4	6.9	6.1	6.3	18.4	17.8	18.1	19.3	18.2	18.6
19	3.8	3.1	3.6	7.6	6.0	6.7	18.2	18.0	18.1	18.9	18.0	18.4
20	4.1	3.0	3.5	7.9	6.2	7.1	18.0	16.4	17.0	20.0	18.6	19.2
21	3.7	2.5	3.0	7.9	6.6	7.0	16.8	15.7	16.3	22.3	19.8	21.0
22	3.0	2.5	2.7	6.9	5.7	6.3	16.5	15.2	16.0	25.2	21.7	23.6
23	3.3	2.5	2.9	7.6	5.8	6.8	16.3	15.3	15.8	25.2	23.9	24.6
24	5.3	3.2	4.1	7.6	6.7	6.9	16.5	15.0	15.8	24.1	20.1	22.5
25	5.7	4.0	4.7	6.8	6.0	6.2	16.8	15.5	16.2	20.1	18.4	19.1
26	5.0	4.3	4.8	7.1	5.8	6.5	17.4	16.0	16.6	19.7	18.2	18.9
27	6.2	4.9	5.4	7.5	6.4	7.1	17.8	16.4	17.0	20.0	18.9	19.4
28	6.2	5.6	5.9	7.6	6.7	7.1	17.5	16.3	17.1	20.9	19.4	20.1
29	---	---	---	8.4	6.6	7.5	16.5	15.7	16.4	23.0	20.0	21.4
30	---	---	---	9.1	7.4	8.3	16.2	15.7	15.9	24.5	21.8	23.1
31	---	---	---	9.2	8.5	8.8	---	---	---	27.2	23.3	25.3
Month	7.6	2.5	4.1	11.2	3.8	6.7	19.6	8.0	15.0	---	---	---

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	28.3	25.2	26.8	28.3	27.3	27.8	27.1	25.8	26.6	29.1	27.1	28.1
2	27.9	26.1	27.1	28.1	27.2	27.6	27.7	25.5	26.6	29.9	27.7	28.9
3	26.4	25.1	25.7	27.3	26.6	26.8	27.0	25.8	26.5	29.3	27.9	28.4
4	26.3	24.3	25.2	29.1	26.3	27.7	27.0	25.2	26.2	28.5	26.7	27.6
5	26.1	23.7	24.9	30.3	27.5	28.9	27.0	24.8	25.9	27.6	25.5	26.7
6	24.8	23.6	24.4	31.4	28.5	30.0	26.4	25.2	25.7	26.8	24.7	26.0
7	23.6	21.6	22.2	32.1	29.3	30.7	26.0	25.0	25.5	26.0	24.2	25.3
8	23.3	21.5	22.2	31.3	29.4	30.4	26.8	25.4	26.1	25.9	24.5	25.3
9	24.0	22.2	23.1	30.1	28.9	29.5	28.0	25.8	27.1	25.9	24.8	25.4
10	23.5	22.0	23.0	29.9	28.5	29.2	28.3	26.8	27.6	26.5	25.2	25.7
11	23.2	22.1	22.6	29.6	28.2	28.8	28.5	26.7	27.7	27.7	26.1	26.6
12	24.9	22.5	23.5	28.4	23.9	26.1	29.7	26.9	28.4	28.0	26.0	27.4
13	24.9	23.5	24.0	27.1	25.5	26.3	29.4	27.9	28.7	26.9	25.9	26.4
14	23.5	22.3	23.0	28.6	26.1	27.3	28.5	26.4	27.2	25.9	23.8	24.7
15	24.2	22.3	23.3	29.2	27.6	28.5	27.1	24.9	26.2	24.3	22.7	23.5
16	24.3	23.3	23.8	30.0	28.7	29.2	26.8	24.3	25.8	23.7	22.8	23.0
17	24.9	23.5	24.2	31.5	29.1	30.3	26.5	24.3	25.7	23.1	21.7	22.4
18	25.2	23.8	24.6	32.7	29.9	31.3	25.8	24.6	25.2	22.3	21.1	21.8
19	24.1	23.5	23.8	33.5	31.2	32.4	25.2	24.1	24.7	22.4	21.0	21.7
20	24.6	23.6	24.0	33.2	31.3	32.2	25.7	24.0	24.7	22.7	21.4	22.0
21	25.5	23.8	24.4	32.9	30.7	31.9	27.4	25.3	26.0	22.6	21.9	22.2
22	26.6	24.4	25.4	32.1	30.5	31.3	28.3	26.4	27.3	22.5	21.5	21.9
23	27.1	25.3	26.2	31.2	29.7	30.5	27.8	26.4	27.0	21.8	20.6	21.1
24	28.6	25.9	27.2	30.3	28.7	29.5	26.9	25.5	26.3	21.1	19.9	20.5
25	29.6	27.0	28.2	28.9	27.4	28.1	27.0	25.1	26.1	20.5	19.5	20.0
26	30.0	28.0	29.0	29.0	27.1	27.9	27.1	25.2	26.2	20.8	19.7	20.2
27	29.0	27.9	28.4	28.4	27.0	27.7	28.1	25.7	27.0	20.9	20.2	20.6
28	28.7	27.2	27.9	27.6	26.6	27.0	27.5	26.7	27.2	20.7	20.1	20.5
29	29.3	26.9	28.0	28.3	25.7	26.9	27.5	26.2	26.8	20.4	19.5	20.0
30	29.1	27.6	28.4	28.5	25.7	27.3	28.2	26.1	27.2	20.4	19.5	20.0
31	---	---	---	27.5	26.1	27.0	28.6	26.6	27.6	---	---	---
Month	30.0	21.5	25.1	33.5	23.9	28.9	29.7	24.0	26.5	29.9	19.5	23.8

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued



01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	20.9	19.4	20.2	10.1	9.6	9.9	6.3	5.0	5.7	2.7	2.4	2.6
2	20.2	18.6	19.4	9.9	9.4	9.7	6.5	5.4	5.9	3.3	2.5	2.8
3	20.1	19.2	19.6	9.6	9.2	9.3	7.4	6.0	6.6	3.1	2.3	2.7
4	20.7	19.6	20.1	9.6	8.7	9.2	8.5	6.9	7.5	3.0	2.0	2.4
5	21.6	19.9	20.6	9.6	9.0	9.3	8.6	8.0	8.3	3.0	2.0	2.4
6	21.2	20.1	20.6	9.4	8.6	8.9	8.6	7.5	8.1	3.5	2.2	2.8
7	20.3	18.4	19.1	8.9	8.1	8.7	8.3	7.0	7.5	3.9	2.9	3.4
8	18.4	16.9	17.3	8.8	7.7	8.3	8.8	7.7	8.1	4.0	2.9	3.3
9	16.9	16.0	16.3	8.9	7.5	8.1	8.8	8.4	8.6	3.6	3.0	3.3
10	17.4	16.1	16.7	9.4	7.8	8.5	9.6	8.8	9.0	4.2	2.9	3.4
11	17.4	15.8	16.7	10.3	8.3	9.2	9.6	9.2	9.3	4.0	3.4	3.8
12	16.9	15.6	16.1	10.8	9.1	9.9	9.3	8.3	8.7	5.3	3.9	4.5
13	16.0	14.6	15.4	10.8	9.9	10.4	8.6	7.4	8.0	5.6	4.8	5.3
14	16.1	14.7	15.4	10.1	8.9	9.6	8.2	6.4	7.2	6.2	5.6	6.0
15	16.1	15.7	15.9	9.5	8.8	9.1	7.3	5.8	6.6	6.2	6.0	6.1
16	16.6	15.5	16.0	9.4	8.5	8.9	7.2	6.3	6.7	6.2	5.8	6.0
17	16.3	15.2	15.9	9.1	7.9	8.5	7.6	6.8	7.2	6.2	5.9	6.0
18	16.3	15.3	15.8	8.8	7.6	8.2	8.4	7.5	7.8	5.9	5.2	5.7
19	17.0	16.3	16.6	8.9	7.9	8.4	8.2	7.2	7.8	5.4	4.8	5.2
20	17.1	16.2	16.7	9.2	8.0	8.6	8.0	7.0	7.4	5.7	4.8	5.3
21	16.6	15.3	16.0	9.6	7.9	8.7	8.0	6.4	7.5	5.5	4.7	4.9
22	16.3	14.6	15.6	9.1	7.8	8.5	6.9	4.4	5.4	4.7	2.6	3.3
23	16.6	14.8	15.7	8.9	7.3	8.2	4.6	4.0	4.3	2.6	1.5	1.9
24	17.2	15.8	16.4	8.5	6.9	7.4	4.4	3.7	3.9	1.9	1.0	1.4
25	17.7	16.8	17.2	7.1	5.6	6.1	4.4	3.8	4.0	1.1	0.2	0.6
26	17.9	17.6	17.8	6.3	4.4	5.4	4.1	2.7	3.5	0.9	0.2	0.5
27	18.1	17.6	17.9	6.3	5.1	5.5	3.5	2.7	3.1	1.6	0.2	0.8
28	18.0	16.6	17.3	6.3	5.0	5.6	3.0	2.4	2.7	1.6	0.7	1.2
29	16.7	10.2	14.5	6.3	4.8	5.6	3.1	2.8	2.9	3.2	1.3	2.1
30	11.1	9.9	10.6	6.3	4.8	5.6	3.5	2.7	3.0	5.3	2.6	3.9
31	10.9	9.9	10.4	---	---	---	3.0	2.4	2.6	10.9	5.3	8.3
Month	21.6	9.9	16.8	10.8	4.4	8.2	9.6	2.4	6.3	10.9	0.2	3.6

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

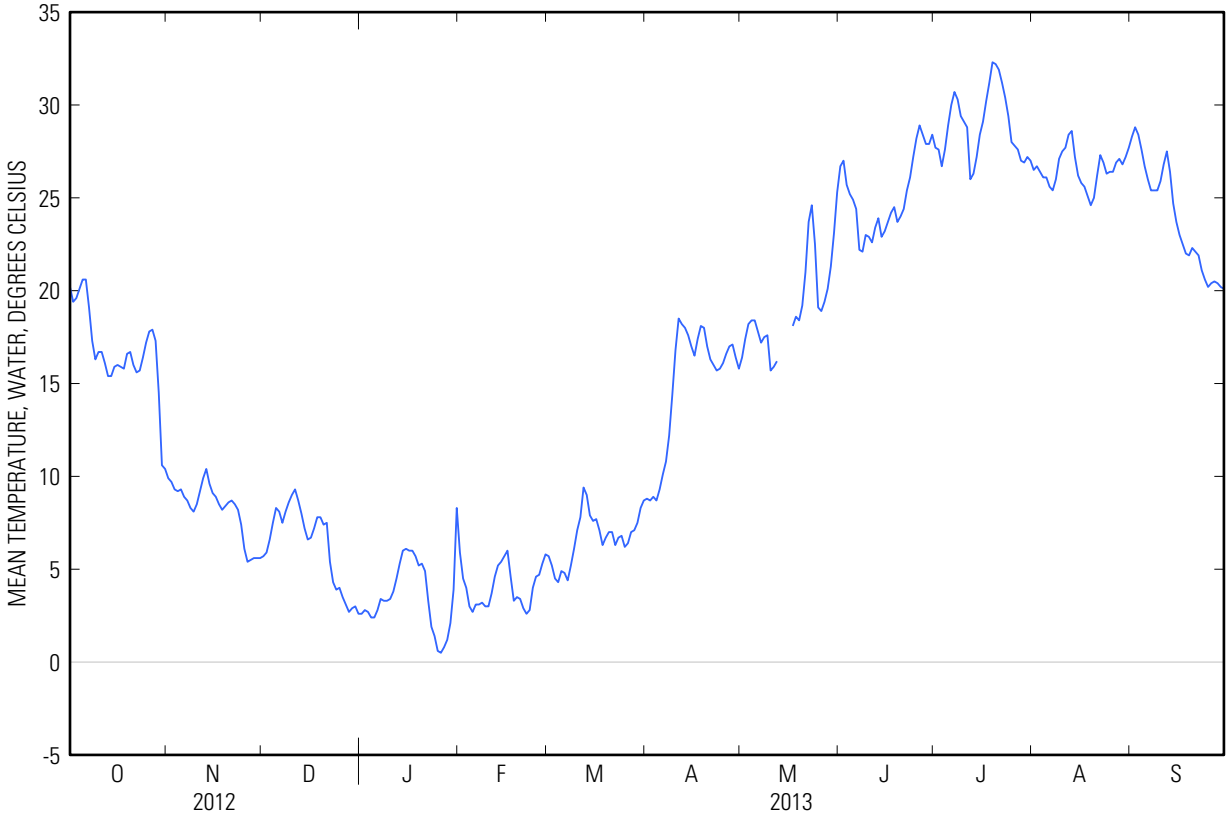
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	7.5	4.8	5.9	5.9	5.5	5.7	9.4	8.3	8.8	17.9	15.3	16.4
2	4.8	4.2	4.5	5.7	4.9	5.2	9.3	7.9	8.7	18.8	16.6	17.4
3	4.2	3.6	4.0	4.9	4.1	4.5	9.5	8.0	8.9	19.6	17.0	18.2
4	3.6	2.7	3.0	4.9	3.7	4.3	9.3	8.1	8.7	19.7	17.5	18.4
5	3.0	2.5	2.7	5.5	4.4	4.9	10.1	8.3	9.3	19.6	17.7	18.4
6	3.6	2.6	3.1	5.6	3.8	4.8	10.8	9.3	10.1	18.3	17.4	17.8
7	3.6	2.9	3.1	5.3	3.8	4.4	11.6	10.1	10.8	17.4	16.9	17.2
8	3.3	3.0	3.2	5.7	4.6	5.2	13.1	11.5	12.2	18.4	16.8	17.5
9	3.5	2.6	3.0	6.8	5.4	6.1	15.6	13.1	14.4	18.5	16.6	17.6
10	3.3	2.5	3.0	7.7	6.5	7.1	18.0	15.4	16.8	16.6	15.2	15.7
11	4.0	3.3	3.7	8.4	7.4	7.8	19.6	17.3	18.5	17.0	15.5	15.9
12	5.5	4.0	4.6	11.1	8.4	9.4	18.7	17.7	18.2	16.7	15.7	16.2
13	5.5	4.9	5.2	9.4	8.5	9.0	18.4	17.5	18.0	---	---	---
14	6.2	4.9	5.4	8.5	7.4	7.9	18.1	17.1	17.6	---	---	---
15	6.5	5.2	5.7	8.1	7.0	7.6	17.9	16.7	17.0	---	---	---
16	6.3	5.4	6.0	8.1	7.2	7.7	17.1	15.9	16.5	---	---	---
17	5.4	3.5	4.6	7.8	6.8	7.1	18.1	16.9	17.4	19.1	17.1	18.1
18	4.1	2.8	3.3	6.8	6.0	6.3	18.3	17.8	18.1	19.2	18.2	18.6
19	3.8	3.0	3.5	7.6	6.0	6.7	18.1	17.9	18.0	18.8	18.0	18.4
20	4.0	2.9	3.4	7.8	6.1	7.0	17.9	16.3	17.0	20.0	18.7	19.2
21	3.7	2.5	2.9	7.8	6.5	7.0	16.8	15.6	16.3	22.3	19.8	21.0
22	2.8	2.4	2.6	6.9	5.6	6.3	16.4	15.1	16.0	25.2	21.8	23.7
23	3.2	2.4	2.8	7.5	5.8	6.7	16.3	15.3	15.7	25.2	23.9	24.6
24	5.3	3.1	4.0	7.5	6.6	6.8	16.5	15.0	15.8	24.0	20.1	22.5
25	5.7	3.9	4.6	6.8	5.9	6.2	16.7	15.4	16.1	20.1	18.3	19.1
26	5.0	4.3	4.7	7.0	5.7	6.4	17.3	15.9	16.6	19.7	18.1	18.9
27	6.1	4.8	5.3	7.4	6.3	7.0	17.7	16.3	17.0	19.9	19.0	19.4
28	6.1	5.5	5.8	7.5	6.7	7.1	17.5	16.3	17.1	20.9	19.4	20.1
29	---	---	---	8.4	6.5	7.5	16.5	15.7	16.4	22.9	19.9	21.3
30	---	---	---	9.1	7.3	8.3	16.2	15.6	15.8	24.5	21.8	23.1
31	---	---	---	9.2	8.4	8.7	---	---	---	27.2	23.4	25.3
Month	7.5	2.4	4.1	11.1	3.7	6.7	19.6	7.9	14.9	---	---	---

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	28.2	25.2	26.7	28.2	27.2	27.7	27.1	25.8	26.5	30.4	27.1	28.3
2	27.9	26.1	27.0	28.0	27.1	27.6	27.8	25.5	26.7	29.8	27.7	28.8
3	26.3	25.1	25.7	27.3	26.5	26.7	26.9	25.8	26.4	29.2	27.8	28.4
4	26.3	24.4	25.2	29.0	26.2	27.6	26.9	25.2	26.1	28.4	26.6	27.6
5	26.1	23.7	24.9	30.2	27.4	28.9	27.1	24.7	26.1	27.5	25.5	26.7
6	24.7	23.5	24.4	31.3	28.4	30.0	26.4	25.1	25.6	26.9	24.7	26.0
7	23.5	21.5	22.2	32.0	29.2	30.7	25.9	24.9	25.4	26.3	24.1	25.4
8	23.2	21.6	22.1	31.2	29.3	30.3	26.7	25.4	26.0	26.2	24.5	25.4
9	24.0	22.1	23.0	30.1	28.9	29.4	28.1	25.7	27.1	26.0	24.7	25.4
10	23.4	22.0	22.9	29.8	28.4	29.1	28.3	26.7	27.5	27.5	25.1	25.9
11	23.1	22.0	22.6	29.5	28.1	28.8	28.5	26.7	27.7	28.1	26.0	26.8
12	24.8	22.4	23.4	28.4	24.0	26.0	29.6	26.8	28.4	28.5	26.4	27.5
13	24.8	23.5	23.9	27.1	25.5	26.3	29.3	27.9	28.6	26.9	25.8	26.4
14	23.5	22.2	22.9	28.5	26.1	27.2	28.5	26.3	27.2	25.9	23.8	24.7
15	24.1	22.2	23.2	29.1	27.5	28.4	27.0	24.9	26.2	24.6	22.8	23.7
16	24.2	23.2	23.7	29.9	28.6	29.1	26.8	24.3	25.8	23.7	22.7	23.0
17	24.9	23.4	24.2	31.4	29.1	30.2	26.4	24.3	25.6	23.2	21.7	22.5
18	25.1	23.7	24.5	32.7	29.9	31.2	25.8	24.5	25.1	23.0	21.1	22.0
19	24.1	23.5	23.7	33.4	31.1	32.3	25.2	24.1	24.6	23.1	21.0	21.9
20	24.6	23.5	24.0	33.2	31.2	32.2	26.5	24.0	25.0	23.7	21.3	22.3
21	25.4	23.7	24.4	32.8	30.7	31.9	27.5	25.2	26.2	22.5	21.9	22.1
22	26.6	24.4	25.4	32.0	30.4	31.2	28.4	26.3	27.3	22.5	21.4	21.9
23	27.0	25.2	26.1	31.1	29.6	30.4	27.7	26.4	26.9	21.8	20.6	21.1
24	28.5	25.8	27.2	30.2	28.8	29.4	27.3	25.5	26.3	21.4	19.9	20.6
25	29.5	27.0	28.2	28.9	27.3	28.0	28.0	25.1	26.4	21.0	19.5	20.2
26	29.9	27.9	28.9	28.9	27.0	27.8	27.7	25.1	26.4	21.7	19.7	20.4
27	29.0	27.8	28.4	28.3	27.0	27.6	28.0	25.7	26.9	20.9	20.2	20.5
28	28.6	27.2	27.9	27.5	26.5	27.0	27.5	26.7	27.1	20.7	20.1	20.4
29	29.2	26.8	27.9	28.2	25.6	26.9	27.4	26.1	26.8	21.4	19.5	20.2
30	29.0	27.6	28.4	28.4	25.7	27.2	28.1	26.0	27.2	21.3	19.5	20.1
31	---	---	---	27.5	26.1	27.0	28.8	26.5	27.7	---	---	---
Month	29.9	21.5	25.1	33.4	24.0	28.8	29.6	24.0	26.5	30.4	19.5	23.9

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued



01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

NITRATE PLUS NITRITE, WATER, IN SITU, MILLIGRAMS PER LITER AS NITROGEN
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	---	---	---	---	---	---	---	---	---	1.59	1.55	1.57
2	---	---	---	---	---	---	---	---	---	1.65	1.58	1.62
3	---	---	---	---	---	---	1.29	1.18	1.22	1.67	1.64	1.65
4	---	---	---	---	---	---	1.32	1.21	1.27	1.69	1.66	1.68
5	---	---	---	---	---	---	1.44	1.32	1.39	1.72	1.67	1.69
6	---	---	---	---	---	---	1.49	1.43	1.46	1.71	1.68	1.69
7	---	---	---	---	---	---	---	---	---	1.75	1.70	1.72
8	---	---	---	---	---	---	---	---	---	1.77	1.73	1.74
9	---	---	---	---	---	---	1.42	1.01	1.26	1.78	1.74	1.76
10	---	---	---	---	---	---	1.29	0.99	1.14	1.79	1.75	1.77
11	---	---	---	---	---	---	1.43	1.28	1.38	1.78	1.73	1.76
12	---	---	---	---	---	---	1.50	1.42	1.46	---	---	---
13	---	---	---	---	---	---	1.59	1.49	1.54	1.78	1.42	1.57
14	---	---	---	---	---	---	1.67	1.58	1.63	1.71	1.25	1.53
15	---	---	---	---	---	---	1.72	1.66	1.70	1.30	1.20	1.24
16	---	---	---	---	---	---	1.78	1.72	1.75	1.39	1.28	1.35
17	---	---	---	---	---	---	1.82	1.77	1.79	1.44	1.37	1.40
18	---	---	---	---	---	---	1.85	1.81	1.83	1.49	1.42	1.45
19	---	---	---	---	---	---	1.87	1.83	1.85	1.54	1.48	1.51
20	---	---	---	---	---	---	1.89	1.86	1.87	1.54	1.50	1.52
21	---	---	---	---	---	---	1.92	1.87	1.90	1.51	1.47	1.49
22	---	---	---	---	---	---	1.94	1.90	1.91	1.48	1.44	1.45
23	---	---	---	---	---	---	1.91	1.16	1.61	1.51	1.45	1.48
24	---	---	---	---	---	---	1.85	1.61	1.71	---	---	---
25	---	---	---	---	---	---	1.87	1.80	1.83	1.56	1.53	1.54
26	---	---	---	---	---	---	1.82	1.77	1.80	1.64	1.55	1.60
27	---	---	---	---	---	---	1.78	1.29	1.64	1.61	1.39	1.51
28	---	---	---	---	---	---	1.60	1.45	1.54	1.58	1.47	1.50
29	---	---	---	---	---	---	---	---	---	1.58	1.43	1.49
30	---	---	---	---	---	---	---	---	---	1.59	1.51	1.56
31	---	---	---	---	---	---	1.70	1.56	1.62	1.55	1.50	1.52
Month	---	---	---	---	---	---	---	---	---	---	---	---

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

NITRATE PLUS NITRITE, WATER, IN SITU, MILLIGRAMS PER LITER AS NITROGEN
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

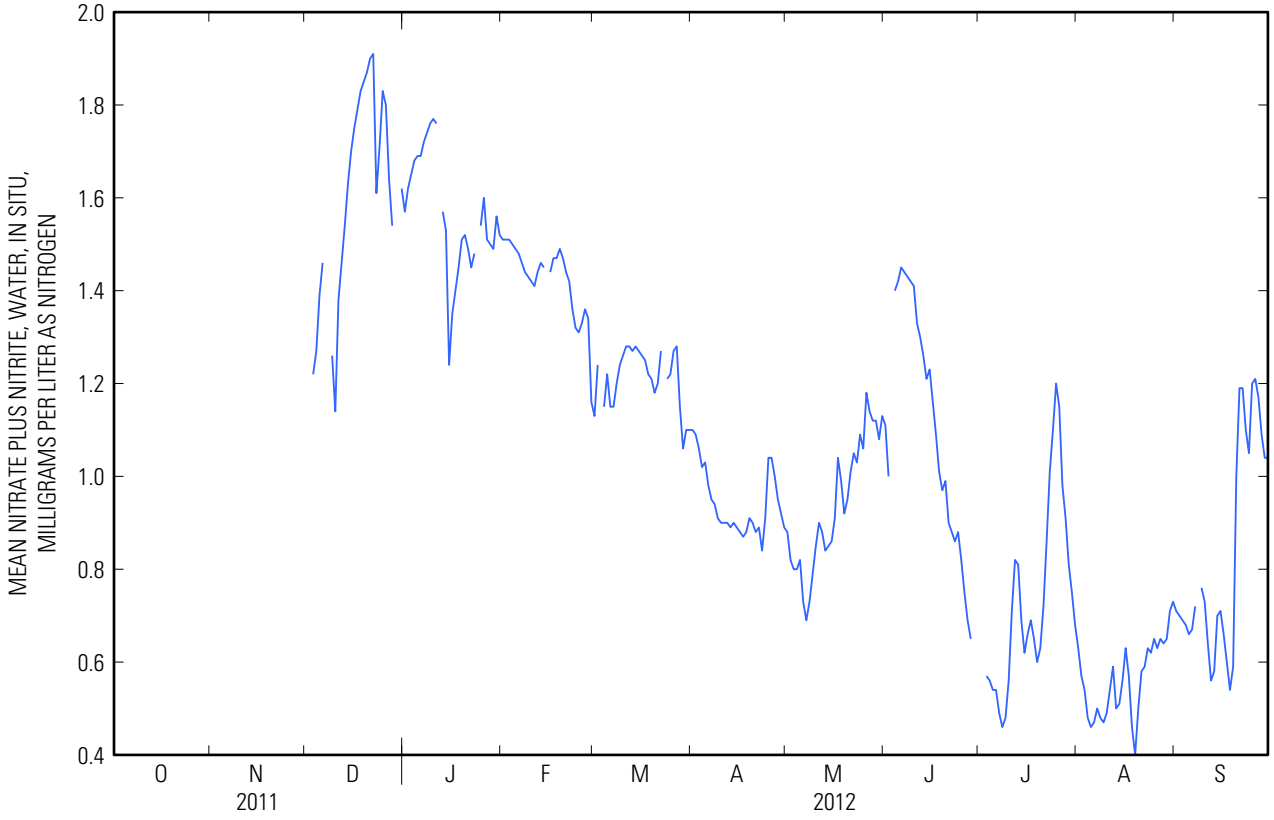
Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	1.53	1.49	1.51	1.19	1.03	1.13	1.11	1.09	1.10	0.90	0.86	0.88
2	1.53	1.48	1.51	1.39	1.05	1.24	1.11	1.08	1.09	0.87	0.79	0.82
3	1.53	1.49	1.51	---	---	---	1.08	1.04	1.06	0.81	0.79	0.80
4	1.51	1.48	1.50	1.26	1.03	1.15	1.05	1.01	1.02	0.82	0.79	0.80
5	1.50	1.48	1.49	1.26	1.17	1.22	1.04	1.02	1.03	0.83	0.79	0.82
6	1.50	1.47	1.48	1.18	1.14	1.15	1.02	0.95	0.98	0.82	0.68	0.73
7	1.49	1.44	1.46	1.17	1.14	1.15	0.97	0.95	0.95	0.72	0.67	0.69
8	1.45	1.42	1.44	1.23	1.17	1.20	0.97	0.91	0.94	0.76	0.71	0.73
9	1.45	1.41	1.43	1.25	1.22	1.24	0.93	0.89	0.91	0.81	0.76	0.79
10	1.44	1.40	1.42	1.28	1.25	1.26	0.92	0.89	0.90	0.89	0.80	0.85
11	1.44	1.39	1.41	1.29	1.27	1.28	0.91	0.89	0.90	0.92	0.88	0.90
12	1.47	1.42	1.44	1.29	1.27	1.28	0.90	0.89	0.90	0.90	0.86	0.88
13	1.48	1.45	1.46	1.28	1.26	1.27	0.91	0.88	0.89	0.87	0.81	0.84
14	1.48	1.42	1.45	1.29	1.26	1.28	0.91	0.89	0.90	0.89	0.81	0.85
15	---	---	---	1.28	1.26	1.27	0.91	0.87	0.89	0.88	0.82	0.86
16	1.46	1.43	1.44	1.27	1.25	1.26	0.90	0.87	0.88	0.97	0.87	0.91
17	1.48	1.45	1.47	1.27	1.23	1.25	0.88	0.86	0.87	1.10	0.96	1.04
18	1.50	1.45	1.47	1.25	1.21	1.22	0.89	0.87	0.88	1.01	0.95	0.99
19	1.50	1.48	1.49	1.23	1.19	1.21	0.93	0.89	0.91	0.96	0.89	0.92
20	1.49	1.46	1.47	1.21	1.13	1.18	0.93	0.87	0.90	0.98	0.92	0.95
21	1.47	1.41	1.44	1.22	1.17	1.20	0.90	0.86	0.88	1.04	0.97	1.01
22	1.43	1.39	1.42	1.30	1.21	1.27	0.91	0.83	0.89	1.07	1.03	1.05
23	1.40	1.34	1.36	---	---	---	0.90	0.79	0.84	1.07	0.97	1.03
24	1.35	1.28	1.32	1.28	1.17	1.21	0.93	0.89	0.91	1.13	1.04	1.09
25	1.33	1.30	1.31	1.25	1.20	1.22	1.10	0.93	1.04	1.12	0.99	1.06
26	1.37	1.30	1.33	1.38	1.20	1.27	1.07	1.02	1.04	1.24	1.10	1.18
27	1.38	1.35	1.36	1.37	1.21	1.28	1.04	0.97	1.00	1.23	1.09	1.14
28	1.36	1.31	1.34	1.22	1.06	1.15	0.98	0.93	0.95	1.14	1.10	1.12
29	1.31	0.77	1.16	1.10	1.04	1.06	0.94	0.89	0.92	1.15	1.09	1.12
30	---	---	---	1.12	1.09	1.10	0.91	0.89	0.89	1.14	1.00	1.08
31	---	---	---	1.11	1.09	1.10	---	---	---	1.21	1.07	1.13
Month	---	---	---	---	---	---	1.11	0.79	0.94	1.24	0.67	0.94

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

NITRATE PLUS NITRITE, WATER, IN SITU, MILLIGRAMS PER LITER AS NITROGEN
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	1.23	0.73	1.11	---	---	---	0.65	0.60	0.63	0.73	0.69	0.71
2	1.21	0.73	1.00	---	---	---	0.61	0.55	0.57	0.72	0.68	0.70
3	---	---	---	0.61	0.52	0.57	0.57	0.49	0.54	0.72	0.67	0.69
4	1.49	1.35	1.40	0.60	0.52	0.56	0.51	0.44	0.48	0.70	0.65	0.68
5	1.50	1.38	1.42	0.57	0.50	0.54	0.49	0.43	0.46	0.68	0.64	0.66
6	1.50	1.41	1.45	0.60	0.50	0.54	0.51	0.44	0.47	0.68	0.65	0.67
7	1.45	1.41	1.44	0.53	0.45	0.49	0.52	0.46	0.50	0.81	0.65	0.72
8	1.45	1.40	1.43	0.47	0.44	0.46	0.51	0.45	0.48	---	---	---
9	1.44	1.40	1.42	0.53	0.43	0.48	0.50	0.44	0.47	0.78	0.73	0.76
10	1.44	1.36	1.41	0.62	0.50	0.56	0.53	0.45	0.49	0.77	0.67	0.73
11	1.39	1.28	1.33	0.75	0.62	0.71	0.57	0.51	0.54	0.71	0.59	0.64
12	1.32	1.26	1.30	0.89	0.70	0.82	0.62	0.53	0.59	0.61	0.52	0.56
13	1.28	1.21	1.26	0.87	0.74	0.81	0.55	0.47	0.50	0.64	0.53	0.58
14	1.24	1.18	1.21	0.77	0.61	0.69	0.52	0.48	0.51	0.75	0.61	0.70
15	1.27	1.19	1.23	0.65	0.58	0.62	0.62	0.50	0.56	0.74	0.69	0.71
16	1.21	1.11	1.16	0.68	0.64	0.66	0.66	0.60	0.63	0.71	0.62	0.66
17	1.14	1.02	1.09	0.73	0.66	0.69	0.63	0.49	0.57	0.65	0.57	0.60
18	1.06	0.97	1.01	0.68	0.61	0.65	0.51	0.41	0.46	0.58	0.51	0.54
19	1.00	0.93	0.97	0.65	0.56	0.60	0.45	0.37	0.40	0.82	0.52	0.59
20	1.03	0.95	0.99	0.70	0.56	0.63	0.55	0.43	0.50	1.21	0.82	1.00
21	0.98	0.85	0.90	0.80	0.67	0.72	0.61	0.54	0.58	1.24	1.13	1.19
22	0.91	0.83	0.88	0.93	0.78	0.86	0.63	0.57	0.59	1.23	1.12	1.19
23	0.90	0.84	0.86	1.07	0.93	1.01	0.66	0.61	0.63	1.19	1.04	1.10
24	0.92	0.84	0.88	1.18	1.03	1.10	0.64	0.59	0.62	1.11	1.02	1.05
25	0.88	0.75	0.82	1.25	1.17	1.20	0.68	0.63	0.65	1.25	1.08	1.20
26	0.79	0.70	0.75	1.20	1.07	1.15	0.66	0.61	0.63	1.25	1.17	1.21
27	0.74	0.64	0.69	1.10	0.91	0.98	0.68	0.61	0.65	1.22	1.14	1.17
28	0.68	0.61	0.65	0.95	0.87	0.91	0.67	0.62	0.64	1.17	1.02	1.09
29	---	---	---	0.87	0.75	0.81	0.69	0.61	0.65	1.08	1.02	1.04
30	---	---	---	0.78	0.71	0.75	0.76	0.64	0.71	1.09	0.98	1.04
31	---	---	---	0.73	0.63	0.68	0.76	0.69	0.73	---	---	---
Month	---	---	---	---	---	---	0.76	0.37	0.56	---	---	---

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued



01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

NITRATE PLUS NITRITE, WATER, IN SITU, MILLIGRAMS PER LITER AS NITROGEN
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	1.22	1.02	1.15	---	---	---	1.69	1.57	1.64	1.66	1.62	1.64
2	---	---	---	---	---	---	1.68	1.55	1.62	1.66	1.62	1.64
3	1.03	0.87	0.96	1.87	1.68	1.78	1.68	1.50	1.58	1.66	1.61	1.63
4	1.04	0.87	0.94	1.95	1.81	1.89	1.66	1.48	1.54	1.65	1.61	1.63
5	1.36	1.01	1.21	2.04	1.90	1.97	1.60	1.48	1.52	1.63	1.58	1.60
6	1.44	1.33	1.37	2.06	1.96	2.02	1.66	1.47	1.53	1.60	1.56	1.58
7	1.36	1.27	1.31	2.12	2.02	2.06	1.63	1.47	1.53	1.59	1.55	1.58
8	1.32	1.26	1.29	2.16	2.04	2.09	1.59	1.45	1.51	1.58	1.53	1.55
9	1.29	1.20	1.23	2.17	2.08	2.13	1.65	1.45	1.52	1.56	1.52	1.54
10	1.22	1.17	1.20	2.18	2.10	2.14	1.56	1.46	1.49	1.56	1.51	1.54
11	1.21	1.15	1.18	2.21	2.13	2.16	1.61	1.47	1.52	1.53	1.50	1.51
12	1.20	1.13	1.17	2.21	2.13	2.17	1.60	1.51	1.55	1.54	1.50	1.52
13	1.16	1.07	1.11	2.19	1.67	2.02	1.70	1.55	1.62	1.53	1.47	1.49
14	1.10	1.04	1.07	2.04	1.90	1.98	1.69	1.61	1.64	1.57	1.42	1.51
15	1.06	1.02	1.05	1.99	1.83	1.90	1.69	1.52	1.58	1.43	1.28	1.35
16	1.05	1.00	1.02	2.00	1.91	1.95	1.56	1.48	1.52	1.29	1.02	1.17
17	1.03	0.99	1.01	---	---	---	1.58	1.48	1.52	1.36	1.17	1.28
18	1.03	0.95	0.99	---	---	---	1.55	1.36	1.46	1.30	1.08	1.22
19	0.97	0.79	0.90	---	---	---	1.44	1.32	1.38	1.24	1.08	1.14
20	1.01	0.79	0.88	---	---	---	1.44	1.32	1.36	1.43	1.23	1.35
21	1.16	1.01	1.06	---	---	---	1.37	0.78	1.14	1.46	1.40	1.43
22	---	---	---	---	---	---	1.57	1.27	1.34	1.50	1.44	1.47
23	---	---	---	---	---	---	1.63	1.29	1.41	1.51	1.48	1.50
24	1.06	0.97	1.01	---	---	---	1.59	1.33	1.44	1.52	1.48	1.50
25	1.02	0.97	1.00	---	---	---	1.56	1.45	1.50	1.58	1.49	1.53
26	1.01	0.94	0.97	---	---	---	---	---	---	1.65	1.56	1.61
27	0.99	0.92	0.96	1.67	1.56	1.61	---	---	---	1.74	1.63	1.67
28	0.99	0.91	0.95	1.68	1.59	1.64	1.61	1.30	1.49	1.80	1.70	1.75
29	---	---	---	1.69	1.60	1.64	1.59	1.45	1.49	1.84	1.78	1.81
30	---	---	---	1.72	1.58	1.64	1.57	1.46	1.52	1.88	1.81	1.84
31	---	---	---	---	---	---	1.64	1.55	1.60	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

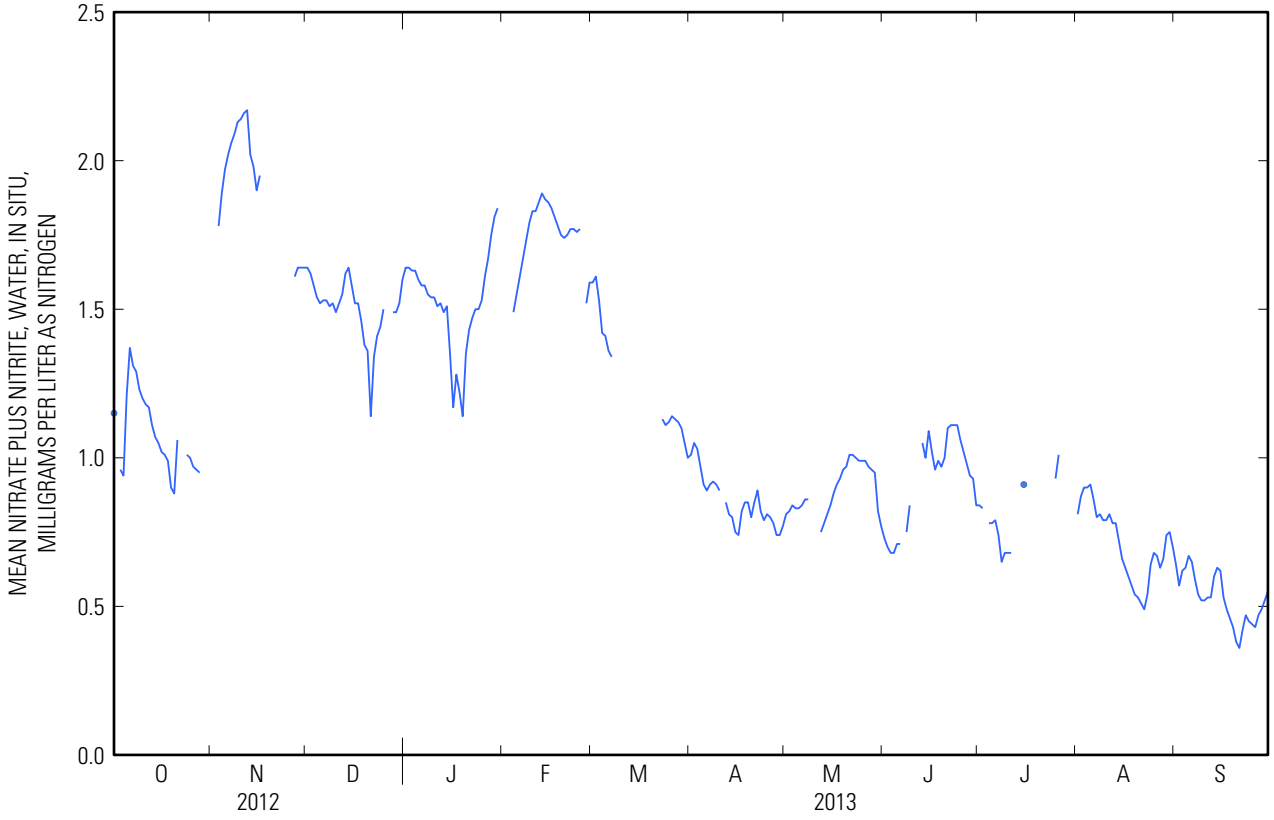
01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

NITRATE PLUS NITRITE, WATER, IN SITU, MILLIGRAMS PER LITER AS NITROGEN
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	---	---	---	1.69	1.52	1.59	1.03	0.99	1.01	0.84	0.77	0.81
2	---	---	---	1.63	1.56	1.61	1.07	1.02	1.05	0.84	0.81	0.82
3	---	---	---	1.63	1.44	1.53	1.05	0.99	1.03	0.86	0.81	0.84
4	1.54	1.42	1.49	1.46	1.39	1.42	1.00	0.93	0.97	0.85	0.80	0.83
5	1.59	1.51	1.55	1.43	1.39	1.41	0.95	0.88	0.91	0.85	0.80	0.83
6	1.65	1.56	1.61	1.45	1.22	1.36	0.91	0.87	0.89	0.86	0.82	0.84
7	1.71	1.63	1.67	1.40	1.25	1.34	0.93	0.89	0.91	0.88	0.83	0.86
8	1.77	1.70	1.73	---	---	---	0.94	0.91	0.92	0.89	0.81	0.86
9	1.83	1.74	1.79	---	---	---	0.93	0.88	0.91	---	---	---
10	1.86	1.80	1.83	---	---	---	0.91	0.87	0.89	---	---	---
11	1.86	1.78	1.83	---	---	---	---	---	---	---	---	---
12	1.88	1.84	1.86	---	---	---	0.88	0.83	0.85	0.79	0.69	0.75
13	1.91	1.86	1.89	---	---	---	0.85	0.78	0.81	0.80	0.76	0.78
14	1.90	1.82	1.87	---	---	---	0.83	0.77	0.80	0.83	0.77	0.81
15	1.88	1.84	1.86	---	---	---	0.81	0.69	0.75	0.87	0.81	0.84
16	1.87	1.82	1.84	---	---	---	0.77	0.70	0.74	0.91	0.85	0.88
17	1.84	1.78	1.81	---	---	---	0.87	0.74	0.82	0.93	0.88	0.91
18	1.80	1.76	1.78	---	---	---	0.88	0.83	0.85	0.96	0.91	0.93
19	1.78	1.73	1.75	---	---	---	0.89	0.74	0.85	0.98	0.94	0.96
20	1.76	1.72	1.74	---	---	---	0.86	0.69	0.80	1.00	0.95	0.97
21	1.77	1.74	1.75	---	---	---	0.89	0.79	0.85	1.03	0.98	1.01
22	1.79	1.75	1.77	---	---	---	0.94	0.83	0.89	1.04	0.98	1.01
23	1.79	1.75	1.77	1.15	1.10	1.13	0.85	0.79	0.82	1.03	0.97	1.00
24	1.79	1.74	1.76	1.13	1.09	1.11	0.81	0.77	0.79	1.07	0.94	0.99
25	1.81	1.74	1.77	1.13	1.10	1.12	0.82	0.79	0.81	1.07	0.95	0.99
26	---	---	---	1.15	1.11	1.14	0.82	0.78	0.80	1.02	0.96	0.99
27	1.71	1.24	1.52	1.15	1.12	1.13	0.80	0.76	0.78	1.01	0.94	0.97
28	1.76	1.46	1.59	1.14	1.10	1.12	0.78	0.72	0.74	1.00	0.93	0.96
29	---	---	---	1.13	1.07	1.10	0.77	0.73	0.74	1.00	0.89	0.95
30	---	---	---	1.08	1.00	1.05	0.79	0.75	0.77	0.90	0.77	0.82
31	---	---	---	1.01	0.98	1.00	---	---	---	0.79	0.73	0.77
Month	---	---	---	---	---	---	---	---	---	---	---	---

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued

NITRATE PLUS NITRITE, WATER, IN SITU, MILLIGRAMS PER LITER AS NITROGEN
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	0.75	0.69	0.73	0.87	0.77	0.84	0.85	0.76	0.81	0.68	0.58	0.64
2	0.73	0.68	0.70	0.87	0.78	0.83	0.90	0.85	0.87	0.60	0.55	0.57
3	0.77	0.65	0.68	---	---	---	0.92	0.88	0.90	0.63	0.60	0.62
4	0.78	0.60	0.68	0.82	0.72	0.78	0.93	0.88	0.90	0.65	0.61	0.63
5	0.74	0.68	0.71	0.81	0.74	0.78	0.95	0.90	0.91	0.70	0.65	0.67
6	0.74	0.69	0.71	0.84	0.74	0.79	0.90	0.82	0.86	0.69	0.61	0.65
7	---	---	---	0.80	0.67	0.74	0.83	0.78	0.80	0.63	0.56	0.59
8	0.80	0.68	0.75	0.70	0.60	0.65	0.83	0.79	0.81	0.58	0.50	0.54
9	0.90	0.76	0.84	0.72	0.63	0.68	0.81	0.76	0.79	0.55	0.50	0.52
10	---	---	---	0.74	0.65	0.68	0.81	0.76	0.79	0.54	0.50	0.52
11	---	---	---	0.72	0.65	0.68	0.86	0.75	0.81	0.55	0.51	0.53
12	---	---	---	---	---	---	0.83	0.74	0.78	0.64	0.50	0.53
13	1.14	0.90	1.05	---	---	---	0.82	0.73	0.78	0.64	0.56	0.60
14	1.06	0.94	1.00	---	---	---	0.76	0.69	0.72	0.65	0.58	0.63
15	1.13	1.00	1.09	1.07	0.75	0.91	0.70	0.63	0.66	0.65	0.58	0.62
16	1.09	0.95	1.02	---	---	---	0.66	0.62	0.63	0.59	0.50	0.53
17	1.00	0.92	0.96	---	---	---	0.65	0.56	0.60	0.52	0.48	0.49
18	1.02	0.95	0.99	---	---	---	0.61	0.53	0.57	0.49	0.45	0.46
19	1.00	0.94	0.97	---	---	---	0.56	0.52	0.54	0.45	0.40	0.43
20	1.07	0.96	1.00	---	---	---	0.55	0.51	0.53	0.41	0.36	0.38
21	1.15	1.05	1.10	---	---	---	0.52	0.48	0.51	0.38	0.34	0.36
22	1.15	1.08	1.11	---	---	---	0.50	0.48	0.49	0.47	0.36	0.42
23	1.13	1.07	1.11	---	---	---	0.61	0.49	0.54	0.48	0.45	0.47
24	1.16	1.05	1.11	---	---	---	0.68	0.59	0.64	0.46	0.43	0.45
25	1.10	1.02	1.06	0.98	0.89	0.93	0.71	0.66	0.68	0.46	0.43	0.44
26	1.06	0.97	1.02	1.09	0.93	1.01	0.69	0.64	0.67	0.45	0.42	0.43
27	1.02	0.95	0.98	---	---	---	0.65	0.61	0.63	0.49	0.44	0.47
28	0.98	0.91	0.94	---	---	---	0.70	0.63	0.66	0.51	0.47	0.49
29	0.99	0.89	0.93	---	---	---	0.77	0.69	0.74	0.54	0.50	0.52
30	0.91	0.81	0.84	---	---	---	0.77	0.71	0.75	0.57	0.52	0.55
31	---	---	---	---	---	---	0.73	0.67	0.70	---	---	---
Month	---	---	---	---	---	---	0.95	0.48	0.71	0.70	0.34	0.53

01646500 POTOMAC RIVER NEAR WASHINGTON, DC—Continued