

## DELAWARE RIVER BASIN

## 01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA

**LOCATION.**--Lat 39°57'14", long 75°08'16", Philadelphia County, Hydrologic Unit 02040202, on right bank at river end of pier 12, 150 ft upstream from Ben Franklin bridge, and at Philadelphia.

**DRAINAGE AREA.**--7,993 mi<sup>2</sup>.

**PERIOD OF RECORD.**--August 1949 to current year.

**PERIOD OF DAILY RECORD.**--

SPECIFIC CONDUCTANCE: November 1963 to current year.

pH: October 1967 to current year.

WATER TEMPERATURE: November 1960 to current year.

DISSOLVED OXYGEN: October 1961 to current year.

**INSTRUMENTATION.**--Water-quality monitor interfaced with a data collection platform.

**REMARKS.**--Water temperature and pH records rated good. Dissolved oxygen records rated good except for period, Sept. 2-4, which is poor. Specific conductance records rated good except for periods, Oct. 2-24 and Aug. 14 to Sept. 4, which are fair. Prior to July 1988, located on edge of pier 11 about 300 ft downstream of pier 12. Further information on this station is given in U.S. Geological Survey Water-Supply Paper 1809-0. Data collection discontinued during winter months. Other interruptions in the record were due to malfunctions of the pump or recording instrument.

**EXTREMES FOR PERIOD OF DAILY RECORD.**--

SPECIFIC CONDUCTANCE: Maximum, 1,450 microsiemens, Nov. 20, 1964; minimum, 65 microsiemens, Sept. 15, 1979.

pH: Maximum, 8.7, Oct. 14, 1979; minimum, 4.7, Dec. 29, 1978.

WATER TEMPERATURE: Maximum, 31.0°C, July 13-15, 1966; minimum, 0.0°C, many days during winters.

DISSOLVED OXYGEN: Maximum, 14.1 mg/L, Dec. 14, 1962; minimum, 0.0 mg/L, on many days.

## SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	234	212	224	287	273	280	275	244	256	---	---	---
2	236	213	225	289	275	282	273	247	260	---	---	---
3	235	220	228	293	275	284	272	248	260	---	---	---
4	237	221	229	292	276	284	---	---	---	---	---	---
5	238	220	230	---	---	---	---	---	---	---	---	---
6	236	224	230	298	271	283	---	---	---	---	---	---
7	238	224	231	301	274	287	---	---	---	---	---	---
8	239	227	232	303	273	289	---	---	---	---	---	---
9	239	227	232	305	273	288	---	---	---	---	---	---
10	239	230	234	306	269	289	---	---	---	---	---	---
11	241	231	235	296	257	274	---	---	---	---	---	---
12	242	233	237	300	258	278	---	---	---	---	---	---
13	251	236	243	301	257	278	---	---	---	---	---	---
14	254	243	249	295	255	275	---	---	---	---	---	---
15	257	246	253	281	251	265	---	---	---	---	---	---
16	264	249	256	282	253	263	---	---	---	---	---	---
17	269	252	261	274	255	263	---	---	---	---	---	---
18	270	258	265	274	258	264	---	---	---	---	---	---
19	269	262	265	278	260	267	---	---	---	---	---	---
20	272	262	267	287	264	273	---	---	---	---	---	---
21	272	264	268	284	271	276	---	---	---	---	---	---
22	275	261	267	283	270	274	---	---	---	---	---	---
23	275	263	269	285	271	277	---	---	---	---	---	---
24	276	264	270	299	272	283	---	---	---	---	---	---
25	276	265	270	300	272	285	---	---	---	---	---	---
26	279	264	272	308	274	290	---	---	---	---	---	---
27	282	266	274	294	265	280	---	---	---	---	---	---
28	281	269	276	286	256	272	---	---	---	---	---	---
29	280	270	275	285	252	268	---	---	---	---	---	---
30	282	271	276	280	245	260	---	---	---	---	---	---
31	284	271	277	---	---	---	---	---	---	---	---	---
MONTH	284	212	252	308	245	277	275	244	259	---	---	---

## DELAWARE RIVER BASIN

## 01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	<b>FEBRUARY</b>			<b>MARCH</b>			<b>APRIL</b>			<b>MAY</b>		
1	---	---	---	---	---	---	190	174	182	202	193	198
2	---	---	---	---	---	---	187	178	182	206	197	202
3	---	---	---	---	---	---	183	159	172	208	200	204
4	---	---	---	---	---	---	171	153	161	210	200	207
5	---	---	---	---	---	---	163	153	159	214	204	209
6	---	---	---	---	---	---	173	156	163	219	207	213
7	---	---	---	---	---	---	172	163	167	221	212	216
8	---	---	---	---	---	---	173	164	169	223	214	220
9	---	---	---	---	---	---	174	167	170	227	217	223
10	---	---	---	---	---	---	174	162	168	231	220	227
11	---	---	---	---	---	---	166	150	159	237	224	230
12	---	---	---	---	---	---	155	136	144	239	228	234
13	---	---	---	---	---	---	140	127	133	239	232	236
14	---	---	---	---	---	---	132	123	126	243	234	240
15	---	---	---	---	---	---	132	125	128	249	237	243
16	---	---	---	---	---	---	140	127	135	255	241	248
17	---	---	---	---	---	---	141	133	137	262	245	253
18	---	---	---	---	---	---	145	134	140	263	251	258
19	---	---	---	---	---	---	150	139	145	264	255	260
20	---	---	---	---	---	---	157	144	150	267	257	262
21	---	---	---	---	---	---	166	149	158	270	258	265
22	---	---	---	---	---	---	167	157	162	270	258	264
23	---	---	---	---	---	---	169	161	165	270	260	265
24	---	---	---	---	---	---	172	165	169	275	260	267
25	---	---	---	---	---	---	177	168	173	276	263	270
26	---	---	---	---	---	---	180	171	176	280	267	274
27	---	---	---	---	---	---	186	176	182	278	270	273
28	---	---	---	203	181	192	190	181	185	276	272	274
29	---	---	---	195	180	187	193	185	189	278	274	276
30	---	---	---	190	179	183	197	190	194	279	270	275
31	---	---	---	190	175	182	---	---	---	274	261	269
MONTH	---	---	---	203	175	186	197	123	161	280	193	244
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	<b>JUNE</b>			<b>JULY</b>			<b>AUGUST</b>			<b>SEPTEMBER</b>		
1	272	251	263	234	220	227	308	289	297	308	269	288
2	270	234	253	234	221	226	307	289	297	300	257	280
3	258	231	241	236	221	229	308	289	297	302	262	284
4	248	229	236	244	223	232	307	287	297	315	279	297
5	242	223	231	242	226	233	307	286	295	316	276	297
6	237	219	228	243	228	234	305	286	295	318	279	298
7	235	219	228	244	230	236	309	288	300	320	280	301
8	238	222	231	248	233	240	312	296	305	320	282	301
9	239	222	231	249	238	244	315	297	306	320	281	299
10	239	226	233	252	242	247	316	298	308	317	281	299
11	239	225	233	252	245	249	311	289	302	325	282	299
12	240	224	233	257	247	253	310	288	300	337	284	304
13	239	223	232	261	252	258	304	279	292	334	289	307
14	240	221	231	264	256	261	313	277	292	333	279	301
15	240	217	229	273	259	266	315	283	297	327	283	303
16	241	218	229	272	262	268	317	284	298	329	280	302
17	241	190	206	274	265	270	317	285	299	323	282	303
18	218	192	201	276	267	272	311	282	297	335	287	312
19	205	191	198	279	267	275	311	283	298	346	292	318
20	210	197	203	283	272	277	313	285	298	356	293	325
21	221	204	211	285	274	280	309	283	296	350	297	322
22	222	211	215	286	275	281	308	282	296	340	292	315
23	226	213	220	288	276	283	308	282	295	336	279	308
24	223	214	220	291	279	285	305	277	293	350	282	310
25	224	211	218	291	281	287	309	280	295	334	288	309
26	224	211	217	294	282	289	306	278	294	325	281	299
27	227	214	221	299	284	291	305	278	291	322	277	293
28	227	214	221	301	287	293	301	271	287	315	274	290
29	233	214	223	306	285	293	301	272	286	309	273	287
30	233	219	226	306	286	294	302	270	287	320	279	296
31	---	---	---	307	288	297	308	272	289	---	---	---
MONTH	272	190	225	307	220	264	317	270	296	356	257	302

DELAWARE RIVER BASIN

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	<b>OCTOBER</b>			<b>NOVEMBER</b>			<b>DECEMBER</b>			<b>JANUARY</b>		
1	7.0	6.9	6.9	7.2	7.2	7.2	7.2	7.2	7.2	---	---	---
2	6.9	6.8	6.8	7.2	7.1	7.2	7.2	7.2	7.2	---	---	---
3	6.8	6.7	6.8	7.3	7.1	7.2	7.2	7.2	7.2	---	---	---
4	6.8	6.7	6.7	7.2	7.2	7.2	---	---	---	---	---	---
5	6.8	6.7	6.7	---	---	---	---	---	---	---	---	---
6	6.7	6.7	6.7	7.3	7.1	7.2	---	---	---	---	---	---
7	6.9	6.7	6.7	7.2	7.1	7.1	---	---	---	---	---	---
8	6.9	6.8	6.9	7.2	7.1	7.1	---	---	---	---	---	---
9	6.9	6.9	6.9	7.1	7.0	7.1	---	---	---	---	---	---
10	6.9	6.9	6.9	7.1	7.0	7.1	---	---	---	---	---	---
11	7.0	6.9	6.9	7.1	7.0	7.1	---	---	---	---	---	---
12	7.0	6.9	6.9	7.2	7.1	7.1	---	---	---	---	---	---
13	7.0	6.9	7.0	7.1	7.1	7.1	---	---	---	---	---	---
14	7.0	6.9	7.0	7.1	7.1	7.1	---	---	---	---	---	---
15	7.0	6.9	6.9	7.2	7.1	7.1	---	---	---	---	---	---
16	7.0	6.9	6.9	7.2	7.1	7.1	---	---	---	---	---	---
17	7.0	6.9	7.0	7.2	7.1	7.1	---	---	---	---	---	---
18	7.0	6.9	6.9	7.2	7.1	7.2	---	---	---	---	---	---
19	7.0	6.9	7.0	7.2	7.1	7.1	---	---	---	---	---	---
20	7.0	6.9	7.0	7.3	7.1	7.2	---	---	---	---	---	---
21	7.0	7.0	7.0	7.3	7.2	7.2	---	---	---	---	---	---
22	7.1	7.0	7.0	7.3	7.2	7.3	---	---	---	---	---	---
23	7.1	7.0	7.1	7.3	7.3	7.3	---	---	---	---	---	---
24	7.1	6.9	7.0	7.3	7.3	7.3	---	---	---	---	---	---
25	7.0	6.9	7.0	7.3	7.3	7.3	---	---	---	---	---	---
26	7.0	6.9	7.0	7.3	7.2	7.2	---	---	---	---	---	---
27	7.1	6.9	7.0	7.2	7.2	7.2	---	---	---	---	---	---
28	7.1	7.0	7.1	7.2	7.2	7.2	---	---	---	---	---	---
29	7.2	7.1	7.1	7.2	7.2	7.2	---	---	---	---	---	---
30	7.2	7.1	7.2	7.2	7.2	7.2	---	---	---	---	---	---
31	7.2	7.2	7.2	---	---	---	---	---	---	---	---	---
MAX	7.2	7.2	7.2	7.3	7.3	7.3	7.2	7.2	7.2	---	---	---
MIN	6.7	6.7	6.7	7.1	7.0	7.1	7.2	7.2	7.2	---	---	---
DAY	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN	MAX	MIN	MEDIAN
	<b>FEBRUARY</b>			<b>MARCH</b>			<b>APRIL</b>			<b>MAY</b>		
1	---	---	---	---	---	---	7.4	7.3	7.4	7.4	7.3	7.3
2	---	---	---	---	---	---	7.3	7.3	7.3	7.5	7.3	7.3
3	---	---	---	---	---	---	7.3	7.3	7.3	7.5	7.3	7.4
4	---	---	---	---	---	---	7.3	7.2	7.3	7.5	7.3	7.3
5	---	---	---	---	---	---	7.3	7.2	7.3	7.4	7.3	7.3
6	---	---	---	---	---	---	7.3	7.2	7.3	7.4	7.2	7.3
7	---	---	---	---	---	---	7.4	7.3	7.3	7.6	7.2	7.4
8	---	---	---	---	---	---	7.4	7.3	7.3	7.5	7.3	7.4
9	---	---	---	---	---	---	7.4	7.3	7.3	7.5	7.3	7.4
10	---	---	---	---	---	---	7.4	7.3	7.3	7.5	7.3	7.3
11	---	---	---	---	---	---	7.4	7.3	7.3	7.5	7.2	7.3
12	---	---	---	---	---	---	7.3	7.3	7.3	7.4	7.2	7.3
13	---	---	---	---	---	---	7.3	7.2	7.2	7.4	7.2	7.2
14	---	---	---	---	---	---	7.2	7.2	7.2	7.3	7.1	7.2
15	---	---	---	---	---	---	7.2	7.2	7.2	7.3	7.1	7.2
16	---	---	---	---	---	---	7.2	7.2	7.2	7.2	7.1	7.1
17	---	---	---	---	---	---	7.3	7.2	7.2	7.2	7.1	7.1
18	---	---	---	---	---	---	7.3	7.2	7.3	7.2	7.1	7.2
19	---	---	---	---	---	---	7.3	7.2	7.2	7.2	7.1	7.1
20	---	---	---	---	---	---	7.3	7.2	7.3	7.1	7.1	7.1
21	---	---	---	---	---	---	7.3	7.2	7.3	7.1	7.0	7.1
22	---	---	---	---	---	---	7.3	7.2	7.2	7.1	7.0	7.0
23	---	---	---	---	---	---	7.3	7.2	7.3	7.1	7.0	7.0
24	---	---	---	---	---	---	7.3	7.2	7.3	7.2	7.0	7.0
25	---	---	---	---	---	---	7.3	7.2	7.3	7.2	7.0	7.1
26	---	---	---	---	---	---	7.3	7.2	7.3	7.2	7.0	7.1
27	---	---	---	---	---	---	7.3	7.2	---	7.2	7.0	7.1
28	---	---	---	7.4	7.4	7.4	7.4	7.3	7.3	7.3	7.1	7.2
29	---	---	---	7.4	7.4	7.4	7.4	7.3	7.3	7.4	7.2	7.3
30	---	---	---	7.4	7.3	7.4	7.4	7.3	7.3	7.4	7.3	7.4
31	---	---	---	7.4	7.3	7.4	---	---	---	7.5	7.4	7.4
MAX	---	---	---	7.4	7.4	7.4	7.4	7.3	7.4	7.6	7.4	7.4
MIN	---	---	---	7.4	7.3	7.4	7.2	7.2	7.2	7.1	7.0	7.0

## DELAWARE RIVER BASIN

## 01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEDIAN									
1	7.6	7.4	7.5	7.0	6.9	6.9	6.9	6.8	6.9	6.8	6.8	6.8
2	7.5	7.4	7.4	7.0	6.9	6.9	6.9	6.8	6.9	6.8	6.8	6.8
3	7.4	7.4	7.4	7.0	6.9	6.9	6.9	6.8	6.9	6.8	6.8	6.8
4	7.5	7.4	7.4	7.0	6.9	6.9	7.0	6.8	6.9	6.9	6.8	6.8
5	7.5	7.3	7.4	7.0	6.9	6.9	6.9	6.8	6.9	6.9	6.8	6.8
6	7.4	7.3	7.4	7.0	6.9	6.9	6.9	6.8	6.8	6.9	6.8	6.8
7	7.4	7.3	7.4	7.0	6.9	6.9	6.9	6.8	6.8	6.9	6.8	6.8
8	7.4	7.3	7.3	7.0	6.9	7.0	6.9	6.8	6.9	6.9	6.8	6.9
9	7.4	7.3	7.3	7.0	6.9	7.0	6.9	6.8	6.9	6.9	6.8	6.9
10	7.4	7.2	7.3	7.0	6.9	7.0	6.9	6.8	6.9	6.9	6.8	6.9
11	7.3	7.2	7.2	7.0	6.9	6.9	6.9	6.8	6.8	6.9	6.8	6.8
12	7.3	7.1	7.2	7.0	6.9	7.0	6.8	6.7	6.8	6.9	6.8	6.8
13	7.2	7.0	7.1	7.0	6.9	7.0	6.8	6.7	6.7	6.8	6.8	6.8
14	7.1	7.0	7.0	7.0	6.9	7.0	6.8	6.7	6.7	6.9	6.8	6.8
15	7.1	6.9	7.0	7.0	6.9	6.9	6.8	6.7	6.8	6.8	6.8	6.8
16	7.1	7.0	7.0	7.0	6.9	6.9	6.8	6.7	6.8	6.8	6.7	6.7
17	7.1	7.0	7.0	6.9	6.9	6.9	6.8	6.7	6.8	6.8	6.7	6.7
18	7.1	7.0	7.0	6.9	6.9	6.9	6.8	6.8	6.8	6.8	6.7	6.8
19	7.0	6.9	7.0	6.9	6.8	6.9	6.8	6.8	6.8	6.8	6.8	6.8
20	7.0	6.9	6.9	6.9	6.8	6.9	6.8	6.8	6.8	6.8	6.8	6.8
21	7.0	6.9	6.9	6.9	6.8	6.8	6.8	6.7	6.8	6.8	6.8	6.8
22	7.0	6.9	6.9	6.9	6.8	6.8	6.8	6.7	6.8	6.8	6.8	6.8
23	6.9	6.8	6.9	6.9	6.8	6.8	6.8	6.7	6.8	6.8	6.8	6.8
24	7.0	6.8	6.9	6.9	6.8	6.8	6.8	6.7	6.8	6.8	6.7	6.8
25	6.9	6.8	6.9	6.9	6.8	6.9	6.8	6.7	6.8	6.8	6.8	6.8
26	6.9	6.8	6.9	7.0	6.8	6.9	6.9	6.8	6.8	6.8	6.8	6.8
27	6.9	6.8	6.9	7.0	6.9	6.9	6.9	6.8	6.8	6.8	6.8	6.8
28	6.9	6.8	6.9	6.9	6.8	6.9	6.8	6.8	6.8	6.8	6.8	6.8
29	6.9	6.8	6.9	6.9	6.8	6.9	6.8	6.8	6.8	6.9	6.8	6.9
30	6.9	6.8	6.9	6.9	6.8	6.9	6.8	6.8	6.8	6.9	6.9	6.9
31	---	---	---	6.9	6.8	6.8	6.8	6.8	6.8	---	---	---
MAX	7.6	7.4	7.5	7.0	6.9	7.0	7.0	6.8	6.9	6.9	6.9	6.9
MIN	6.9	6.8	6.9	6.9	6.8	6.8	6.8	6.7	6.7	6.8	6.7	6.7

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	18.5	19.0	14.0	14.0	14.0	7.0	7.0	7.0	---	---	---
2	19.0	18.5	19.0	14.0	14.0	14.0	7.0	6.5	6.5	---	---	---
3	19.0	19.0	19.0	14.0	13.5	14.0	6.5	6.0	6.5	---	---	---
4	19.5	19.0	19.0	14.0	13.5	14.0	---	---	---	---	---	---
5	19.5	19.0	19.0	---	---	---	---	---	---	---	---	---
6	19.5	19.0	19.0	13.5	13.0	13.0	---	---	---	---	---	---
7	19.0	19.0	19.0	13.0	13.0	13.0	---	---	---	---	---	---
8	19.0	18.0	18.5	13.0	12.5	13.0	---	---	---	---	---	---
9	18.0	17.5	18.0	13.0	13.0	13.0	---	---	---	---	---	---
10	17.5	17.0	17.0	13.0	13.0	13.0	---	---	---	---	---	---
11	17.0	16.5	16.5	13.0	12.5	13.0	---	---	---	---	---	---
12	17.0	16.5	16.5	13.0	12.5	12.5	---	---	---	---	---	---
13	17.0	16.5	16.5	13.0	12.5	12.5	---	---	---	---	---	---
14	17.0	16.5	16.5	12.5	12.0	12.5	---	---	---	---	---	---
15	17.0	16.5	16.5	12.5	11.5	12.0	---	---	---	---	---	---
16	17.0	16.5	17.0	11.5	11.5	11.5	---	---	---	---	---	---
17	17.0	16.5	17.0	11.5	11.0	11.5	---	---	---	---	---	---
18	17.0	16.5	17.0	11.0	10.5	11.0	---	---	---	---	---	---
19	16.5	16.5	16.5	10.5	10.5	10.5	---	---	---	---	---	---
20	16.5	16.5	16.5	10.5	10.0	10.0	---	---	---	---	---	---
21	16.5	16.5	16.5	10.0	9.0	9.5	---	---	---	---	---	---
22	16.5	16.5	16.5	9.5	8.5	9.0	---	---	---	---	---	---
23	16.5	16.0	16.0	8.5	8.0	8.0	---	---	---	---	---	---
24	16.5	16.0	16.0	8.0	7.5	8.0	---	---	---	---	---	---
25	16.5	16.0	16.0	8.0	7.5	7.5	---	---	---	---	---	---
26	16.5	16.0	16.0	8.0	7.5	8.0	---	---	---	---	---	---
27	16.5	16.0	16.0	8.0	7.5	7.5	---	---	---	---	---	---
28	16.5	15.5	16.0	8.0	7.5	7.5	---	---	---	---	---	---
29	15.5	15.0	15.5	7.5	7.0	7.5	---	---	---	---	---	---
30	15.0	14.5	15.0	7.5	7.0	7.0	---	---	---	---	---	---
31	14.5	14.0	14.5	---	---	---	---	---	---	---	---	---
MONTH	19.5	14.0	17.0	14.0	7.0	10.9	7.0	6.0	6.7	---	---	---

## DELAWARE RIVER BASIN

## 01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	<b>FEBRUARY</b>			<b>MARCH</b>			<b>APRIL</b>			<b>MAY</b>		
1	---	---	---	---	---	---	6.0	5.5	6.0	16.5	15.0	15.5
2	---	---	---	---	---	---	6.0	6.0	6.0	17.0	15.5	16.5
3	---	---	---	---	---	---	6.0	5.5	6.0	18.0	16.5	17.0
4	---	---	---	---	---	---	6.5	6.0	6.0	18.5	17.0	17.5
5	---	---	---	---	---	---	7.0	6.5	6.5	18.5	17.5	18.0
6	---	---	---	---	---	---	7.5	6.5	7.0	18.5	18.0	18.5
7	---	---	---	---	---	---	8.0	7.0	7.5	18.5	18.0	18.5
8	---	---	---	---	---	---	8.5	7.5	8.0	19.0	18.0	18.5
9	---	---	---	---	---	---	9.0	8.0	8.5	19.0	18.5	18.5
10	---	---	---	---	---	---	9.5	9.0	9.0	19.5	18.5	19.0
11	---	---	---	---	---	---	9.0	9.0	9.0	20.0	19.0	19.5
12	---	---	---	---	---	---	9.5	9.0	9.5	20.0	19.5	20.0
13	---	---	---	---	---	---	10.0	9.5	9.5	20.5	19.5	20.0
14	---	---	---	---	---	---	10.0	9.5	9.5	20.0	19.5	20.0
15	---	---	---	---	---	---	10.0	9.5	9.5	20.0	19.5	19.5
16	---	---	---	---	---	---	10.5	10.0	10.0	20.0	19.5	19.5
17	---	---	---	---	---	---	10.5	10.5	10.5	19.5	19.0	19.5
18	---	---	---	---	---	---	11.0	10.5	10.5	19.5	19.0	19.5
19	---	---	---	---	---	---	11.0	10.5	11.0	20.0	19.0	19.5
20	---	---	---	---	---	---	11.0	11.0	11.0	19.5	19.5	19.5
21	---	---	---	---	---	---	11.5	11.0	11.0	19.5	19.0	19.0
22	---	---	---	---	---	---	12.0	11.0	11.5	19.0	19.0	19.0
23	---	---	---	---	---	---	12.5	11.5	12.0	19.5	19.0	19.0
24	---	---	---	---	---	---	13.5	12.5	13.0	19.5	19.0	19.5
25	---	---	---	---	---	---	13.0	13.0	13.0	19.5	19.5	19.5
26	---	---	---	---	---	---	13.5	13.0	13.0	19.5	19.0	19.5
27	---	---	---	---	---	---	14.0	13.0	13.5	19.5	19.0	19.0
28	---	---	---	6.0	5.5	6.0	14.5	13.5	14.0	19.5	19.0	19.0
29	---	---	---	6.0	6.0	6.0	15.0	14.0	14.5	19.5	19.0	19.0
30	---	---	---	6.0	5.5	6.0	16.0	14.0	15.0	19.0	19.0	19.0
31	---	---	---	6.0	5.5	6.0	---	---	---	19.0	18.5	19.0
MONTH	---	---	---	6.0	5.5	6.0	16.0	5.5	10.0	20.5	15.0	18.9
	<b>JUNE</b>			<b>JULY</b>			<b>AUGUST</b>			<b>SEPTEMBER</b>		
1	19.0	18.5	19.0	27.5	27.0	27.0	26.0	25.5	26.0	27.0	26.5	27.0
2	19.0	18.5	18.5	27.0	26.5	26.5	26.0	25.5	26.0	26.5	26.0	26.5
3	19.0	18.5	18.5	26.5	26.0	26.5	26.0	25.5	26.0	26.5	26.0	26.0
4	19.0	18.5	18.5	26.5	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
5	19.5	19.0	19.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
6	19.5	19.0	19.5	26.0	26.0	26.0	26.5	26.0	26.5	26.0	25.5	25.5
7	19.5	19.5	19.5	26.0	25.5	26.0	27.0	26.5	26.5	25.5	25.5	25.5
8	20.0	19.5	20.0	26.0	25.5	25.5	27.0	26.5	27.0	26.0	25.5	25.5
9	20.5	20.0	20.0	26.0	25.5	26.0	27.5	27.0	27.5	25.5	25.5	25.5
10	20.5	20.0	20.5	26.5	26.0	26.0	28.0	27.5	27.5	25.5	25.5	25.5
11	21.0	20.5	20.5	26.5	26.0	26.0	27.5	27.5	27.5	25.5	25.5	25.5
12	21.5	21.0	21.0	26.0	26.0	26.0	27.5	27.5	27.5	25.5	25.0	25.5
13	22.5	21.5	22.0	26.0	25.5	26.0	27.5	27.5	27.5	25.5	25.0	25.0
14	23.0	22.0	22.5	26.0	25.5	25.5	27.5	27.5	27.5	25.0	24.5	25.0
15	23.5	22.5	23.0	25.5	25.5	25.5	28.0	27.5	27.5	24.5	24.0	24.0
16	23.5	23.0	23.0	26.0	25.5	25.5	28.0	27.5	27.5	24.0	23.5	24.0
17	24.0	23.0	23.5	26.0	25.5	26.0	28.0	27.5	27.5	24.0	23.5	23.5
18	24.5	23.5	24.0	26.0	26.0	26.0	27.5	27.5	27.5	23.5	23.5	23.5
19	25.0	24.0	24.5	26.0	25.5	26.0	27.5	27.5	27.5	24.0	23.5	23.5
20	25.5	24.5	25.0	26.0	25.5	26.0	27.5	27.5	27.5	23.5	23.5	23.5
21	25.5	25.0	25.0	26.0	25.5	26.0	27.5	27.0	27.5	23.5	23.5	23.5
22	25.5	25.0	25.5	26.0	25.5	26.0	27.5	27.0	27.5	23.5	23.5	23.5
23	25.5	25.0	25.5	26.5	26.0	26.0	27.0	27.0	27.0	23.5	23.5	23.5
24	25.5	25.0	25.5	26.5	26.0	26.5	27.0	27.0	27.0	23.5	23.5	23.5
25	25.5	25.0	25.5	27.0	26.5	27.0	27.0	27.0	27.0	23.5	23.5	23.5
26	26.0	25.5	25.5	27.0	26.5	27.0	27.0	26.5	27.0	23.5	23.0	23.0
27	26.5	25.5	26.0	26.5	26.5	26.5	27.0	26.5	27.0	23.0	22.5	22.5
28	27.0	26.0	26.5	26.5	26.0	26.5	27.0	26.5	27.0	22.5	22.0	22.0
29	27.0	26.5	26.5	26.5	26.0	26.0	27.0	27.0	27.0	22.0	21.0	21.5
30	27.0	26.5	27.0	26.0	25.5	26.0	27.0	27.0	27.0	21.0	20.5	20.5
31	---	---	---	26.0	25.5	25.5	27.0	26.5	27.0	---	---	---
MONTH	27.0	18.5	22.7	27.5	25.5	26.1	28.0	25.5	27.0	27.0	20.5	24.3

## DELAWARE RIVER BASIN

## 01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

## OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	<b>OCTOBER</b>			<b>NOVEMBER</b>			<b>DECEMBER</b>			<b>JANUARY</b>		
1	6.0	5.3	5.6	8.0	7.4	7.6	10.1	9.6	9.8	---	---	---
2	5.9	4.6	5.2	8.0	7.3	7.6	10.2	9.6	9.9	---	---	---
3	5.1	4.6	4.8	8.1	7.3	7.6	10.4	9.8	10.1	---	---	---
4	5.1	4.7	4.9	8.2	7.2	7.7	---	---	---	---	---	---
5	5.1	4.7	4.9	---	---	---	---	---	---	---	---	---
6	5.1	4.6	4.8	8.0	7.2	7.6	---	---	---	---	---	---
7	5.3	4.7	5.0	7.7	7.1	7.4	---	---	---	---	---	---
8	5.7	4.9	5.3	7.7	7.1	7.4	---	---	---	---	---	---
9	6.0	5.1	5.6	7.6	7.0	7.3	---	---	---	---	---	---
10	6.2	5.4	5.8	7.5	6.9	7.2	---	---	---	---	---	---
11	6.6	5.7	6.2	7.9	7.1	7.5	---	---	---	---	---	---
12	6.5	5.9	6.2	7.9	7.3	7.5	---	---	---	---	---	---
13	6.4	5.7	6.1	7.9	7.3	7.6	---	---	---	---	---	---
14	6.3	5.5	5.9	7.9	7.3	7.5	---	---	---	---	---	---
15	6.2	5.5	5.8	8.1	7.4	7.7	---	---	---	---	---	---
16	6.2	5.4	5.8	8.3	7.6	7.9	---	---	---	---	---	---
17	6.2	5.5	5.8	8.3	7.8	8.1	---	---	---	---	---	---
18	6.1	5.4	5.7	8.5	8.0	8.3	---	---	---	---	---	---
19	6.2	5.3	5.7	8.7	8.1	8.4	---	---	---	---	---	---
20	6.3	5.5	5.8	8.7	8.1	8.4	---	---	---	---	---	---
21	6.6	5.6	6.0	8.8	8.3	8.6	---	---	---	---	---	---
22	6.9	5.7	6.3	9.2	8.6	8.9	---	---	---	---	---	---
23	6.8	5.8	6.4	9.4	8.9	9.2	---	---	---	---	---	---
24	7.0	6.0	6.5	9.4	9.0	9.2	---	---	---	---	---	---
25	7.1	5.9	6.6	9.5	9.1	9.2	---	---	---	---	---	---
26	7.0	5.9	6.5	9.5	9.1	9.2	---	---	---	---	---	---
27	6.9	5.8	6.4	9.6	9.0	9.2	---	---	---	---	---	---
28	7.2	5.8	6.4	9.7	9.1	9.4	---	---	---	---	---	---
29	7.4	6.3	6.9	9.9	9.3	9.6	---	---	---	---	---	---
30	7.8	6.7	7.2	10.1	9.3	9.7	---	---	---	---	---	---
31	7.8	7.1	7.4	---	---	---	---	---	---	---	---	---
MONTH	7.8	4.6	5.9	10.1	6.9	8.2	10.4	9.6	9.9	---	---	---
	<b>FEBRUARY</b>			<b>MARCH</b>			<b>APRIL</b>			<b>MAY</b>		
1	---	---	---	---	---	---	11.3	11.0	11.2	9.4	9.0	9.2
2	---	---	---	---	---	---	11.0	10.8	10.9	9.4	8.9	9.2
3	---	---	---	---	---	---	11.3	11.0	11.1	9.5	9.0	9.2
4	---	---	---	---	---	---	11.3	11.1	11.2	9.5	8.9	9.1
5	---	---	---	---	---	---	11.4	11.1	11.2	9.2	8.7	8.9
6	---	---	---	---	---	---	11.3	11.0	11.2	9.3	8.6	8.9
7	---	---	---	---	---	---	11.3	11.1	11.1	9.3	8.5	8.9
8	---	---	---	---	---	---	11.2	11.0	11.1	9.2	8.6	8.9
9	---	---	---	---	---	---	11.1	10.4	10.8	9.1	8.5	8.7
10	---	---	---	---	---	---	10.6	10.4	10.5	9.0	8.1	8.5
11	---	---	---	---	---	---	10.8	10.4	10.6	8.8	7.5	8.3
12	---	---	---	---	---	---	10.6	10.2	10.4	8.7	7.7	8.1
13	---	---	---	---	---	---	10.2	9.9	10.1	8.7	7.3	7.9
14	---	---	---	---	---	---	10.2	10.0	10.1	8.2	7.0	7.4
15	---	---	---	---	---	---	10.3	10.0	10.2	7.7	6.6	7.0
16	---	---	---	---	---	---	10.2	9.9	10.1	7.0	6.2	6.5
17	---	---	---	---	---	---	10.1	9.9	10.0	6.4	5.7	6.1
18	---	---	---	---	---	---	10.1	9.8	10.0	6.0	5.3	5.7
19	---	---	---	---	---	---	10.0	9.8	9.9	5.5	4.7	5.2
20	---	---	---	---	---	---	9.9	9.7	9.8	5.4	4.6	5.0
21	---	---	---	---	---	---	9.8	9.7	9.7	5.3	4.7	5.0
22	---	---	---	---	---	---	9.9	9.6	9.7	5.0	4.3	4.6
23	---	---	---	---	---	---	9.9	9.4	9.7	5.1	4.0	4.4
24	---	---	---	---	---	---	9.8	9.6	9.7	5.4	3.8	4.4
25	---	---	---	---	---	---	9.7	9.5	9.6	5.7	4.0	4.8
26	---	---	---	---	---	---	9.6	9.3	9.5	5.7	4.4	4.9
27	---	---	---	---	---	---	9.8	9.3	9.5	5.9	4.3	5.0
28	---	---	---	11.3	10.9	11.1	9.6	9.4	9.5	6.6	4.7	5.7
29	---	---	---	11.3	11.0	11.2	9.6	9.3	9.5	7.5	5.6	6.6
30	---	---	---	11.3	10.7	11.0	9.4	9.3	9.3	8.0	6.4	7.4
31	---	---	---	11.4	11.0	11.3	---	---	---	8.6	7.4	8.0
MONTH	---	---	---	11.4	10.7	11.1	11.4	9.3	10.2	9.5	3.8	7.0

## DELAWARE RIVER BASIN

## 01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

## OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	9.0	8.0	8.4	5.1	3.8	4.3	5.7	4.7	5.1	5.6	4.7	5.3
2	8.4	7.7	8.1	5.3	4.1	4.7	5.8	4.9	5.3	5.9	4.6	5.2
3	8.3	7.7	8.0	5.8	4.5	5.0	6.0	5.1	5.5	5.7	4.7	5.3
4	8.4	7.5	8.0	5.4	4.6	5.0	5.9	5.1	5.5	5.4	4.9	5.1
5	8.6	7.7	8.2	5.3	4.5	4.8	5.9	5.1	5.5	5.3	4.7	4.9
6	8.5	7.9	8.3	5.3	4.4	4.8	5.9	5.1	5.3	5.3	4.7	5.0
7	9.0	7.9	8.5	5.7	4.5	5.0	5.6	4.9	5.1	5.3	4.8	5.0
8	8.9	8.4	8.7	5.7	4.9	5.2	5.4	4.7	5.0	5.4	4.8	5.1
9	8.8	8.3	8.5	5.5	4.9	5.1	5.2	4.6	4.9	5.4	4.6	5.1
10	9.0	7.9	8.3	5.5	5.0	5.2	5.2	4.3	4.8	5.5	4.9	5.2
11	8.5	7.3	7.8	5.4	4.7	5.2	4.7	3.8	4.2	5.4	4.8	5.1
12	8.0	6.6	7.2	5.8	4.9	5.3	4.2	3.5	3.8	5.4	4.9	5.1
13	7.3	6.1	6.6	5.9	5.2	5.5	3.8	3.3	3.5	5.6	4.8	5.1
14	7.0	5.5	6.2	5.8	5.2	5.5	3.9	3.1	3.5	5.4	4.9	5.2
15	6.8	4.8	5.9	5.9	5.1	5.5	4.1	3.2	3.6	5.4	4.9	5.1
16	6.4	4.6	5.5	5.7	5.2	5.4	4.7	3.4	3.9	5.5	4.9	5.1
17	6.4	4.6	5.5	5.7	5.0	5.3	5.1	3.8	4.3	5.3	4.9	5.1
18	6.1	5.1	5.6	5.6	5.0	5.3	5.2	4.2	4.6	5.3	4.9	5.0
19	5.3	4.4	4.8	5.6	4.9	5.2	5.0	4.3	4.6	5.2	4.7	4.9
20	4.6	4.1	4.4	5.7	4.9	5.1	5.0	4.3	4.6	5.3	4.7	4.9
21	4.5	3.8	4.1	5.6	4.6	5.0	5.0	4.1	4.6	5.1	4.6	4.8
22	4.2	3.6	3.8	5.6	4.6	5.0	5.1	4.4	4.7	4.9	4.4	4.6
23	4.0	3.3	3.6	5.6	4.6	5.0	5.0	4.4	4.7	5.1	4.4	4.6
24	4.3	3.1	3.7	5.5	4.7	5.1	5.1	4.2	4.7	5.2	4.3	4.8
25	4.4	3.0	3.7	5.7	4.7	5.2	4.8	4.0	4.4	6.0	4.7	5.0
26	4.4	3.1	3.7	5.7	4.9	5.2	5.3	4.3	4.7	6.0	4.7	4.9
27	4.3	3.1	3.7	5.6	4.7	5.1	5.7	4.7	5.2	5.2	4.7	5.0
28	4.4	3.2	3.8	5.5	4.6	5.1	6.0	5.1	5.5	5.5	4.8	5.2
29	4.6	3.3	4.0	5.5	4.8	5.1	6.2	5.3	5.7	5.9	5.0	5.5
30	4.7	3.5	4.1	5.6	4.8	5.1	5.9	5.3	5.5	6.3	5.7	6.0
31	---	---	---	5.6	4.8	5.1	5.9	4.7	5.4	---	---	---
MONTH	9.0	3.0	6.0	5.9	3.8	5.1	6.2	3.1	4.8	6.3	4.3	5.1

## DELAWARE RIVER BASIN

## 01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

## CROSS-SECTION ANALYSES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS- CHARGE, CUBIC FEET PER SECOND (00060)	SAM- PLING DEPTH (FEET) (00003)	OXYGEN, DIS- SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	SPE- CIFIC CON- DUCT- ANCE (µS/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)
JUL 2001								
18...	1410	3860	0	--	--	--	--	0
18...	1411	--	1	5.2	7.3	266	25.8	92
18...	1413	--	1	5.5	7.2	266	25.8	187
18...	1415	--	1	5.5	7.2	265	25.9	328
18...	1424	--	5	5.6	7.3	263	25.9	328
18...	1426	--	10	5.5	7.2	263	25.9	328
18...	1427	--	15	5.4	7.2	263	25.9	328
18...	1428	--	20	5.4	7.2	264	25.9	328
18...	1430	--	1	5.5	7.2	263	25.9	433
18...	1431	--	5	5.5	7.2	263	25.9	433
18...	1432	--	10	5.5	7.1	263	25.9	433
18...	1433	--	15	5.5	7.1	262	25.9	433
18...	1434	--	20	5.4	7.1	263	25.9	433
18...	1435	--	25	5.4	7.1	263	25.9	433
18...	1436	--	30	5.4	7.1	263	25.9	433
18...	1438	--	1	5.6	7.1	263	26.0	509
18...	1439	--	5	5.5	7.1	263	25.9	509
18...	1440	--	10	5.4	7.1	264	25.9	509
18...	1441	--	15	5.4	7.1	263	25.9	509
18...	1442	--	20	5.4	7.1	264	25.9	509
18...	1447	--	1	5.5	7.1	263	25.9	623
18...	1455	--	10	5.2	7.2	262	25.9	623
18...	1456	--	15	5.2	7.2	262	25.9	623
18...	1457	--	20	5.3	7.2	263	25.9	623
18...	1509	--	1	5.3	7.4	262	25.9	738
18...	1510	--	5	5.2	7.3	263	25.9	738
18...	1511	--	10	5.2	7.3	262	25.8	738
18...	1512	--	15	5.1	7.2	263	25.8	738
18...	1513	--	20	5.0	7.2	263	25.8	738
18...	1514	--	25	5.0	7.2	263	25.8	738
18...	1515	--	30	5.1	7.2	264	25.8	738
18...	1516	--	35	5.1	7.2	263	25.8	738
18...	1520	--	1	5.5	7.2	261	25.8	856
18...	1521	--	5	5.2	7.2	262	25.8	856
18...	1522	--	10	5.2	7.2	262	25.8	856
18...	1523	--	15	5.2	7.2	264	25.8	856
18...	1524	--	20	5.0	7.1	263	25.8	856
18...	1525	--	25	5.0	7.1	263	25.8	856
18...	1526	--	30	5.2	7.1	264	25.8	856
18...	1531	--	1	5.3	7.2	261	25.8	984
18...	1532	--	5	5.1	7.2	263	25.8	984
18...	1533	--	10	5.0	7.2	263	25.8	984
18...	1534	--	15	5.1	7.1	263	25.8	984
18...	1535	--	20	5.0	7.1	263	25.8	984
18...	1536	--	25	5.0	7.1	263	25.8	984
18...	1537	--	30	5.0	7.1	264	25.8	984
18...	1538	--	35	5.0	7.1	265	25.8	984
18...	1542	--	1	5.2	7.2	261	25.8	1110
18...	1543	--	5	5.0	7.2	262	25.8	1110
18...	1544	--	10	5.1	7.2	263	25.8	1110
18...	1545	--	15	4.9	7.1	263	25.8	1110
18...	1546	--	20	4.9	7.1	263	25.8	1110
18...	1547	--	25	4.8	7.1	264	25.8	1110
18...	1548	--	30	4.8	7.1	264	25.8	1110
18...	1549	--	35	4.9	7.1	265	25.8	1110
18...	1553	--	1	5.2	7.2	262	25.8	1210
18...	1554	--	5	5.0	7.2	262	25.8	1210
18...	1555	--	10	5.1	7.1	263	25.8	1210
18...	1556	--	15	5.0	7.1	263	25.8	1210
18...	1557	--	20	4.8	7.1	262	25.8	1210
18...	1558	--	25	4.9	7.1	263	25.8	1210
18...	1559	--	30	4.9	7.1	264	25.8	1210
18...	1600	--	35	4.9	7.1	265	25.8	1210
18...	1601	--	40	5.0	7.1	265	25.8	1210
18...	1605	--	1	5.0	7.2	263	25.8	1350
18...	1606	--	5	4.9	7.1	263	25.8	1350
18...	1607	--	10	4.9	7.1	264	25.8	1350
18...	1608	--	15	5.0	7.1	263	25.8	1350
18...	1609	--	20	5.0	7.1	263	25.8	1350
18...	1610	--	25	5.0	7.1	265	25.8	1350

## DELAWARE RIVER BASIN

## 01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE AT PHILADELPHIA, PA--Continued

## CROSS-SECTION ANALYSES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-	SAM-	OXYGEN,	PH	SPE-	TEMPER-	SAMPLE
		CHARGE, IN CUBIC FEET PER SECOND (00060)			WATER WHOLE FIELD (STAND- ARD UNITS) (00400)			CIFIC CON- DUCT- ANCE ( $\mu$ S/CM) (00095)
JUL 2001								
18...	1611	--	30	5.0	7.1	265	25.8	1350
18...	1612	--	35	5.0	7.1	266	25.8	1350
18...	1613	--	40	4.9	7.1	265	25.8	1350
18...	1617	--	1	5.2	7.2	269	25.7	1480
18...	1618	--	5	5.3	7.1	270	25.8	1480
18...	1619	--	10	5.2	7.1	270	25.7	1480
18...	1620	--	15	5.3	7.1	271	25.7	1480
18...	1621	--	20	5.2	7.1	271	25.7	1480
18...	1622	--	25	5.3	7.1	268	25.8	1480
18...	1623	--	30	5.2	7.1	267	25.8	1480
18...	1624	--	35	5.2	7.1	267	25.8	1480
18...	1625	--	40	5.2	7.1	267	25.8	1480
18...	1626	--	45	5.2	7.1	267	25.8	1480
18...	1630	--	1	5.2	7.2	270	25.7	1600
18...	1631	--	5	5.2	7.2	271	25.7	1600
18...	1632	--	10	5.2	7.1	271	25.7	1600
18...	1633	--	15	5.2	7.1	271	25.7	1600
18...	1634	--	20	5.2	7.1	270	25.7	1600
18...	1635	--	25	5.2	7.1	271	25.7	1600
18...	1636	--	30	5.1	7.1	271	25.7	1600
18...	1637	--	35	5.2	7.1	271	25.8	1600
18...	1638	--	40	5.1	7.1	270	25.8	1600
18...	1642	--	1	5.5	7.2	265	25.8	1710
18...	1643	--	5	5.6	7.2	269	25.8	1710
18...	1644	--	10	5.5	7.1	267	25.8	1710
18...	1645	--	15	5.5	7.1	268	25.8	1710
18...	1646	--	20	5.5	7.1	268	25.8	1710
18...	1647	--	25	5.5	7.1	269	25.8	1710
18...	1648	--	30	5.4	7.1	268	25.8	1710
18...	1649	--	35	5.5	7.1	268	25.8	1710
18...	1650	--	40	5.5	7.1	268	25.8	1710
18...	1651	--	45	5.4	7.1	269	25.8	1710
18...	1655	--	1	5.5	7.2	269	25.8	1890
18...	1656	--	5	5.5	7.2	269	25.8	1890
18...	1657	--	10	5.4	7.2	269	25.8	1890
18...	1658	--	15	5.5	7.1	268	25.8	1890
18...	1659	--	20	5.5	7.1	268	25.8	1890
18...	1700	--	25	5.3	7.1	268	25.8	1890
18...	1701	--	30	5.5	7.1	269	25.8	1890
18...	1702	--	35	5.5	7.1	270	25.8	1890
18...	1703	--	40	5.4	7.1	268	25.8	1890
18...	1704	--	45	5.5	7.1	268	25.8	1890
18...	1705	--	0	--	--	--	--	1980