

## DELAWARE RIVER BASIN

## 01477050 DELAWARE RIVER AT CHESTER, PA

**LOCATION.**--Lat 39°50'33", long 75°21'28", Delaware County, Hydrologic Unit 02040202, in the pumping house of Kimberly-Clark Paper Company at Chester.

**DRAINAGE AREA.**--10,300 mi<sup>2</sup>, approximately.

**PERIOD OF RECORD.**--December 1961 to current year.

**PERIOD OF DAILY RECORD.**--

SPECIFIC CONDUCTANCE: October 1963 to current year.

pH: January 1968 to current year.

WATER TEMPERATURES: December 1961 to current year.

DISSOLVED OXYGEN: December 1961 to current year.

**INSTRUMENTATION.**--Water-quality monitor since December 1961. Probes interfaced with a data collection platform since the 1986 water year.

**REMARKS.**--Specific conductance, pH, and water temperature records rated good. Dissolved oxygen record rated fair. Data collection discontinued during winter months. Other interruptions in the record were due to malfunctions of the instrumentation. Prior to April 1981 sampling site located at auxiliary tidal-gaging station at the end of Reynolds Aluminum Company pier, 0.5 mi downstream from Chester Creek in Chester (latitude 39°50'12", longitude 75°22'00").

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

SPECIFIC CONDUCTANCE: Maximum, 5,900 microsiemens, Oct. 7, 1965; minimum, 103 microsiemens, June 2, 1984, Apr. 9, 1987.

pH: Maximum, 8.7, Sept. 13, 14, 1971, Oct. 16, 1979; minimum, 5.5, Dec. 10, 11, 1969.

WATER TEMPERATURE: Maximum, 33.0°C, July 21, 1977, Aug. 3, 1999; minimum, 0.0°C, many days during winters.

DISSOLVED OXYGEN: Maximum, 16.3 mg/L, Mar. 28, 1993; minimum, 0.0 mg/L, on many days.

## SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	2820	1290	1870	231	221	226	---	---	---	---	---	---
2	2630	1250	1760	236	225	230	---	---	---	---	---	---
3	2700	1270	1770	237	226	231	---	---	---	---	---	---
4	2850	1270	1980	236	229	233	---	---	---	---	---	---
5	3530	1480	2190	237	229	233	---	---	---	---	---	---
6	2960	1290	1980	238	230	233	---	---	---	---	---	---
7	3500	1480	2230	238	230	233	---	---	---	---	---	---
8	3220	1430	2090	240	233	237	---	---	---	---	---	---
9	3530	1540	2280	250	234	241	---	---	---	---	---	---
10	3540	1540	2290	251	240	244	---	---	---	---	---	---
11	3260	1410	2180	255	242	248	---	---	---	---	---	---
12	2430	1170	1710	253	245	249	---	---	---	---	---	---
13	1790	880	1290	259	248	251	---	---	---	---	---	---
14	1120	602	818	257	246	251	---	---	---	---	---	---
15	991	520	702	263	250	256	---	---	---	---	---	---
16	875	465	631	268	254	262	---	---	---	---	---	---
17	715	364	498	270	245	259	---	---	---	---	---	---
18	514	319	382	272	252	261	---	---	---	---	---	---
19	380	297	331	269	237	254	---	---	---	---	---	---
20	321	265	291	251	232	240	---	---	---	---	---	---
21	290	251	271	238	231	235	---	---	---	---	---	---
22	277	238	259	237	227	232	---	---	---	---	---	---
23	263	232	249	245	217	228	---	---	---	---	---	---
24	259	229	245	226	215	220	---	---	---	---	---	---
25	254	235	245	224	214	220	---	---	---	---	---	---
26	254	232	243	214	204	209	---	---	---	---	---	---
27	244	220	234	207	198	203	---	---	---	---	---	---
28	234	216	227	203	198	201	---	---	---	---	---	---
29	255	217	227	203	197	199	---	---	---	---	---	---
30	230	220	226	201	195	197	---	---	---	---	---	---
31	230	220	225	---	---	---	---	---	---	---	---	---
MONTH	3540	216	1030	272	195	234	---	---	---	---	---	---

## DELAWARE RIVER BASIN

## 01477050 DELAWARE RIVER AT CHESTER, PA--Continued

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

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	---	---	---	---	---	---	208	185	196	276	267	272
2	---	---	---	---	---	---	207	191	201	277	269	273
3	---	---	---	---	---	---	214	193	201	283	270	276
4	---	---	---	---	---	---	212	197	205	287	277	282
5	---	---	---	---	---	---	213	202	208	297	280	287
6	---	---	---	---	---	---	214	197	207	294	278	285
7	---	---	---	---	---	---	211	201	206	285	275	281
8	---	---	---	---	---	---	216	201	210	282	274	278
9	---	---	---	---	---	---	223	208	217	290	274	278
10	---	---	---	---	---	---	236	210	223	281	274	277
11	---	---	---	---	---	---	249	211	232	283	275	280
12	---	---	---	---	---	---	264	232	246	291	276	281
13	---	---	---	---	---	---	267	239	253	285	275	280
14	---	---	---	---	---	---	258	245	252	282	277	279
15	---	---	---	---	---	---	250	241	247	---	---	---
16	---	---	---	---	---	---	255	241	246	---	---	---
17	---	---	---	---	---	---	251	243	246	294	285	288
18	---	---	---	---	---	---	257	241	248	296	282	289
19	---	---	---	---	---	---	261	247	253	292	278	285
20	---	---	---	---	---	---	260	249	253	286	272	280
21	---	---	---	---	---	---	257	249	252	282	273	278
22	---	---	---	---	---	---	279	246	257	280	272	277
23	---	---	---	---	---	---	263	254	257	284	274	278
24	---	---	---	---	---	---	263	254	258	282	273	278
25	---	---	---	---	---	---	265	255	260	282	274	277
26	---	---	---	---	---	---	268	256	262	278	247	268
27	---	---	---	190	165	177	268	260	264	276	255	266
28	---	---	---	186	164	175	265	258	262	289	266	280
29	---	---	---	186	166	177	266	259	263	285	272	280
30	---	---	---	195	168	182	281	261	269	285	258	273
31	---	---	---	199	175	189	---	---	---	279	258	269
MONTH	---	---	---	199	164	180	281	185	238	297	247	278
	<b>JUNE</b>			<b>JULY</b>			<b>AUGUST</b>			<b>SEPTEMBER</b>		
1	282	257	267	209	198	203	309	302	305	255	246	251
2	276	259	263	214	199	206	313	298	307	258	249	254
3	268	254	260	218	200	211	315	298	308	269	252	257
4	262	225	249	225	206	213	318	301	309	272	259	265
5	238	212	228	225	209	217	320	303	311	278	265	270
6	222	196	210	223	211	216	316	298	307	269	260	265
7	213	196	201	235	213	219	317	297	306	266	258	262
8	211	190	198	228	215	222	308	272	291	268	253	261
9	213	190	203	235	219	229	306	267	285	264	253	259
10	211	195	203	242	224	234	293	256	270	264	238	253
11	209	194	201	257	230	240	279	252	265	254	223	245
12	210	195	202	252	230	243	276	252	263	250	229	240
13	217	197	206	276	236	251	265	238	255	255	220	238
14	218	202	210	278	242	257	256	225	242	239	201	229
15	222	204	215	267	248	259	249	225	237	233	199	219
16	222	206	216	270	253	262	244	225	234	259	180	222
17	225	214	220	273	256	265	242	227	235	229	193	214
18	230	213	220	280	263	271	253	225	239	208	181	195
19	230	212	221	288	270	278	243	230	236	222	181	195
20	---	---	---	291	275	283	241	233	236	203	184	190
21	---	---	---	297	278	287	274	230	245	209	190	201
22	---	---	---	298	286	292	251	233	241	220	193	211
23	---	---	---	310	290	298	244	231	238	223	200	213
24	---	---	---	337	297	321	248	235	241	229	208	221
25	---	---	---	335	308	325	245	236	240	227	192	213
26	---	---	---	326	297	316	245	237	240	205	193	198
27	---	---	---	324	304	314	248	236	243	209	191	200
28	---	---	---	323	301	310	260	243	250	213	199	205
29	---	---	---	321	298	310	257	241	247	208	195	200
30	---	---	---	315	299	307	251	242	245	205	188	196
31	---	---	---	309	301	305	258	246	250	---	---	---
MONTH	282	190	221	337	198	263	320	225	262	278	180	228

DELAWARE RIVER BASIN

01477050 DELAWARE RIVER AT CHESTER, PA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

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

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

## DELAWARE RIVER BASIN

## 01477050 DELAWARE RIVER AT CHESTER, PA--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

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

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.5	23.0	23.0	12.0	11.5	11.5	---	---	---	---	---	---
2	24.0	23.0	23.5	11.5	10.5	11.0	---	---	---	---	---	---
3	24.5	23.5	24.0	11.5	10.5	11.0	---	---	---	---	---	---
4	24.0	23.5	24.0	11.0	10.0	10.5	---	---	---	---	---	---
5	24.5	23.5	24.0	10.5	10.0	10.5	---	---	---	---	---	---
6	24.0	23.0	23.5	10.5	10.5	10.5	---	---	---	---	---	---
7	23.5	23.0	23.0	10.5	10.0	10.5	---	---	---	---	---	---
8	23.0	22.0	22.5	10.5	10.0	10.0	---	---	---	---	---	---
9	22.0	22.0	22.0	10.5	10.0	10.5	---	---	---	---	---	---
10	22.0	21.5	22.0	11.0	10.5	10.5	---	---	---	---	---	---
11	21.5	21.0	21.0	12.0	11.0	11.5	---	---	---	---	---	---
12	21.0	20.5	21.0	11.5	11.0	11.5	---	---	---	---	---	---
13	21.0	20.5	20.5	11.5	11.0	11.5	---	---	---	---	---	---
14	20.5	20.0	20.0	11.5	10.5	11.0	---	---	---	---	---	---
15	20.0	19.0	19.5	11.0	11.0	11.0	---	---	---	---	---	---
16	19.5	18.5	19.0	11.0	11.0	11.0	---	---	---	---	---	---
17	18.5	18.0	18.5	11.0	10.0	10.5	---	---	---	---	---	---
18	18.5	17.5	18.0	10.5	9.5	10.0	---	---	---	---	---	---
19	18.0	16.5	17.0	10.0	9.0	9.5	---	---	---	---	---	---
20	17.0	16.0	16.5	10.0	9.5	9.5	---	---	---	---	---	---
21	16.5	15.5	16.0	10.0	9.5	10.0	---	---	---	---	---	---
22	16.0	15.0	15.5	10.0	9.5	10.0	---	---	---	---	---	---
23	15.5	15.0	15.5	10.0	8.5	9.0	---	---	---	---	---	---
24	15.0	14.5	15.0	9.0	8.5	8.5	---	---	---	---	---	---
25	14.5	14.0	14.5	9.0	8.5	8.5	---	---	---	---	---	---
26	14.5	14.0	14.0	9.0	8.5	8.5	---	---	---	---	---	---
27	14.0	13.5	14.0	8.5	8.0	8.5	---	---	---	---	---	---
28	14.0	13.5	13.5	8.0	7.5	7.5	---	---	---	---	---	---
29	13.5	13.0	13.5	7.5	6.5	7.0	---	---	---	---	---	---
30	13.0	12.0	12.5	7.0	6.5	7.0	---	---	---	---	---	---
31	12.5	11.5	12.0	---	---	---	---	---	---	---	---	---
MONTH	24.5	11.5	18.7	12.0	6.5	9.9	---	---	---	---	---	---

## DELAWARE RIVER BASIN

## 01477050 DELAWARE RIVER AT CHESTER, PA--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

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	---	---	---	---	---	---	10.5	9.5	10.0	17.0	15.0	16.0
2	---	---	---	---	---	---	10.5	9.5	10.0	18.0	16.0	16.5
3	---	---	---	---	---	---	10.5	10.0	10.0	17.5	16.5	17.0
4	---	---	---	---	---	---	10.5	10.0	10.0	17.5	16.5	17.0
5	---	---	---	---	---	---	10.0	9.5	9.5	17.0	16.0	16.5
6	---	---	---	---	---	---	9.5	9.0	9.5	16.5	16.0	16.5
7	---	---	---	---	---	---	9.5	9.0	9.0	17.5	16.0	16.5
8	---	---	---	---	---	---	9.0	8.0	8.5	17.5	16.5	17.0
9	---	---	---	---	---	---	8.0	7.5	8.0	17.5	16.5	17.0
10	---	---	---	---	---	---	8.0	7.5	7.5	17.5	17.0	17.0
11	---	---	---	---	---	---	7.5	7.5	7.5	18.5	17.0	17.5
12	---	---	---	---	---	---	8.0	7.5	7.5	18.5	17.5	18.0
13	---	---	---	---	---	---	9.0	8.0	8.0	18.0	17.0	17.5
14	---	---	---	---	---	---	9.0	8.0	8.5	18.0	17.0	17.5
15	---	---	---	---	---	---	10.5	8.5	9.0	---	---	---
16	---	---	---	---	---	---	11.0	9.0	10.0	---	---	---
17	---	---	---	---	---	---	10.5	9.5	10.0	16.5	15.5	16.0
18	---	---	---	---	---	---	9.5	9.0	9.5	16.0	15.5	16.0
19	---	---	---	---	---	---	11.0	9.5	10.0	16.5	15.5	16.0
20	---	---	---	---	---	---	11.5	10.0	10.5	17.0	16.0	16.5
21	---	---	---	---	---	---	12.0	10.5	11.5	17.0	16.5	17.0
22	---	---	---	---	---	---	12.5	11.0	12.0	17.0	16.5	16.5
23	---	---	---	---	---	---	12.5	11.5	12.0	16.5	16.5	16.5
24	---	---	---	---	---	---	13.0	12.0	12.5	16.5	16.0	16.5
25	---	---	---	---	---	---	13.5	12.0	12.5	16.5	16.0	16.5
26	---	---	---	---	---	---	13.5	12.5	13.0	16.5	15.5	16.0
27	---	---	---	10.0	8.5	9.0	14.5	13.0	13.5	16.5	15.5	16.0
28	---	---	---	10.0	9.0	9.5	15.5	13.5	14.5	16.5	16.0	16.5
29	---	---	---	10.5	9.5	10.0	16.0	14.5	15.0	17.0	16.0	16.5
30	---	---	---	10.5	9.5	10.0	16.5	15.0	15.5	17.5	16.5	17.0
31	---	---	---	10.5	9.5	10.0	---	---	---	17.5	17.0	17.0
MONTH	---	---	---	10.5	8.5	9.7	16.5	7.5	10.5	18.5	15.0	16.7
	<b>JUNE</b>			<b>JULY</b>			<b>AUGUST</b>			<b>SEPTEMBER</b>		
1	17.5	17.0	17.0	23.5	22.0	23.0	27.0	26.5	26.5	26.5	26.5	26.5
2	17.5	16.5	17.0	24.0	23.0	23.5	27.5	26.5	27.0	26.5	26.0	26.0
3	17.5	17.0	17.0	24.0	23.0	23.5	27.5	27.0	27.0	26.0	25.0	25.5
4	17.0	16.0	16.5	24.5	23.5	24.0	27.5	27.0	27.0	25.5	25.0	25.5
5	17.0	16.5	16.5	25.5	24.0	24.5	27.5	27.0	27.0	25.5	25.0	25.0
6	17.0	16.5	16.5	26.0	24.5	25.0	27.0	26.5	27.0	25.0	24.5	24.5
7	17.0	16.5	16.5	26.5	25.0	25.5	27.0	26.5	26.5	25.0	24.0	24.5
8	16.5	16.0	16.5	26.5	25.5	26.0	27.0	26.0	26.5	24.5	23.5	24.0
9	17.0	16.0	16.5	27.0	26.0	26.5	26.5	26.5	26.5	24.5	23.0	24.0
10	18.0	16.5	17.0	26.5	26.0	26.0	26.5	26.0	26.5	24.0	22.5	23.0
11	18.5	17.0	17.5	26.5	25.5	26.0	27.0	26.5	26.5	23.0	22.0	22.5
12	19.0	18.0	18.5	26.5	25.5	26.0	27.5	26.0	26.5	23.0	21.5	22.5
13	20.0	18.5	19.0	26.5	25.5	26.0	27.5	26.5	26.5	22.5	21.5	22.0
14	20.5	19.0	19.5	26.5	26.0	26.0	27.5	26.5	26.5	22.5	22.0	22.0
15	21.0	20.0	20.5	27.0	26.0	26.5	27.5	26.5	26.5	23.0	22.0	22.5
16	21.0	20.5	20.5	27.0	26.0	26.5	27.0	26.5	27.0	22.5	22.0	22.0
17	21.0	20.5	20.5	27.0	26.5	26.5	27.0	26.5	26.5	22.5	22.0	22.0
18	21.0	20.5	21.0	27.0	26.5	26.5	27.0	26.5	26.5	22.0	21.5	21.5
19	21.5	21.0	21.0	27.0	26.5	26.5	27.0	26.5	26.5	22.0	21.0	21.5
20	21.5	20.5	21.0	27.0	26.5	26.5	27.0	26.5	27.0	22.5	21.5	22.0
21	20.5	19.5	20.0	27.5	26.5	27.0	27.5	27.0	27.0	22.5	22.0	22.5
22	19.5	19.0	19.5	27.5	27.0	27.0	28.0	27.0	27.5	23.0	22.0	22.5
23	20.0	19.0	19.5	27.5	27.0	27.0	28.0	27.0	27.5	23.0	22.5	22.5
24	20.0	19.0	19.5	27.5	26.5	27.0	27.0	26.5	27.0	22.5	22.0	22.0
25	20.0	19.0	19.5	27.5	26.5	26.5	27.0	26.0	26.5	22.5	21.5	22.0
26	21.0	19.5	20.0	27.5	26.5	27.0	27.5	26.5	27.0	22.5	21.5	22.0
27	21.5	20.0	20.5	27.5	26.5	27.0	27.5	26.5	27.0	22.5	21.5	22.0
28	21.5	20.5	21.0	27.5	26.5	27.0	27.5	26.5	27.0	22.0	21.0	21.5
29	22.5	21.0	21.5	27.5	26.5	27.0	28.0	26.5	27.0	21.0	20.0	20.5
30	23.0	21.5	22.5	27.5	26.5	27.0	27.5	27.0	27.0	20.0	19.5	20.0
31	---	---	---	27.0	26.5	26.5	27.0	26.5	27.0	---	---	---
MONTH	23.0	16.0	19.0	27.5	22.0	26.0	28.0	26.0	26.8	26.5	19.5	22.9

## DELAWARE RIVER BASIN

## 01477050 DELAWARE RIVER AT CHESTER, PA--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

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

## DELAWARE RIVER BASIN

## 01477050 DELAWARE RIVER AT CHESTER, PA--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.3	6.6	6.9	7.6	6.9	7.2	5.5	5.0	5.2	4.7	4.4	4.5
2	7.6	6.8	7.1	7.4	6.9	7.3	5.3	4.8	5.1	4.8	4.4	4.5
3	7.6	7.1	7.2	7.4	6.8	7.1	5.4	4.8	5.1	4.8	4.5	4.6
4	7.4	7.1	7.2	7.3	6.6	6.9	5.4	4.9	5.1	4.6	4.1	4.4
5	7.4	7.1	7.3	7.2	6.7	7.0	5.3	4.9	5.0	4.1	3.7	3.8
6	7.6	7.2	7.4	7.4	6.6	7.0	4.9	4.7	4.8	4.2	3.6	3.8
7	7.6	7.2	7.4	7.9	6.8	7.3	4.8	4.4	4.6	4.7	3.6	4.1
8	7.6	7.4	7.5	7.6	7.0	7.2	4.7	4.3	4.5	5.2	3.9	4.6
9	7.7	7.4	7.5	7.0	6.2	6.5	4.7	4.0	4.2	6.0	4.4	5.2
10	7.6	7.2	7.4	6.4	5.2	5.6	4.9	4.1	4.4	6.0	5.2	5.6
11	7.3	7.0	7.2	5.6	4.8	5.1	5.0	4.2	4.5	6.1	5.5	5.8
12	7.1	6.9	7.0	5.1	4.5	4.8	4.8	4.2	4.5	6.5	5.8	6.1
13	6.9	6.6	6.8	5.2	4.5	4.8	4.5	4.1	4.3	6.5	6.3	6.4
14	6.7	6.4	6.5	4.9	4.3	4.6	4.5	4.1	4.2	6.4	5.8	6.1
15	6.6	6.3	6.4	4.9	4.4	4.6	4.6	3.9	4.2	6.1	5.7	5.8
16	7.0	6.3	6.6	4.9	4.5	4.7	4.6	4.0	4.3	6.2	5.4	5.7
17	7.0	6.6	6.8	4.8	4.5	4.6	4.6	4.1	4.3	5.7	5.4	5.5
18	7.0	6.5	6.7	4.7	4.4	4.5	4.6	4.2	4.4	6.4	5.6	5.9
19	6.5	6.1	6.3	4.8	4.4	4.6	4.7	4.3	4.5	7.4	6.4	7.0
20	6.5	6.0	6.1	4.9	4.5	4.7	4.6	4.4	4.5	6.7	6.2	6.5
21	7.0	6.3	6.6	5.3	4.8	5.0	4.7	4.4	4.6	6.3	5.9	6.1
22	6.6	6.3	6.4	5.4	5.1	5.3	4.8	4.5	4.7	6.0	5.8	5.9
23	7.1	6.5	6.7	5.3	5.0	5.1	4.9	4.5	4.7	6.2	5.8	6.0
24	7.2	6.9	7.0	5.5	4.8	5.0	5.2	4.6	4.8	6.3	5.8	6.0
25	7.2	6.8	7.0	5.5	4.8	5.0	5.4	4.8	5.0	6.4	5.9	6.1
26	7.1	6.8	6.9	5.7	4.8	5.1	5.2	4.9	5.0	6.4	6.0	6.2
27	7.0	6.5	6.8	5.9	5.2	5.4	5.0	4.7	4.9	6.7	6.0	6.2
28	7.0	6.6	6.8	5.5	5.1	5.3	4.9	4.6	4.7	6.5	6.2	6.3
29	7.2	6.6	6.9	5.6	4.9	5.2	4.9	4.2	4.7	6.7	6.3	6.4
30	7.5	6.8	7.1	6.2	4.9	5.4	4.8	4.5	4.7	6.8	6.6	6.6
31	---	---	---	5.9	5.3	5.6	4.8	4.4	4.6	---	---	---
MONTH	7.7	6.0	6.9	7.9	4.3	5.6	5.5	3.9	4.6	7.4	3.6	5.6

## DELAWARE RIVER BASIN

## 01477050 DELAWARE RIVER AT CHESTER, PA--Continued

## CROSS-SECTION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Agency col- lecting sample, code (00027)	Agency ana- lyzing sample, code (00028)	Sample loc- ation, cross section ft from rt bank (72103)	Sam- pling depth, feet (00003)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)
APR 2003									
03...	1021	1028	1028	129	1	10.8	7.3	212	10.0
03...	1022	1028	1028	129	5	10.8	7.3	212	10.0
03...	1024	1028	1028	450	1	10.9	7.3	192	9.7
03...	1025	1028	1028	450	5	10.9	7.3	192	9.7
03...	1026	1028	1028	450	10	10.9	7.3	193	9.7
03...	1027	1028	1028	450	15	10.9	7.3	193	9.7
03...	1028	1028	1028	450	20	10.9	7.3	194	9.7
03...	1029	1028	1028	450	25	10.9	7.3	194	9.7
03...	1030	1028	1028	650	1	11.0	7.3	181	9.4
03...	1031	1028	1028	650	5	11.0	7.3	180	9.4
03...	1032	1028	1028	650	10	11.0	7.4	179	9.4
03...	1033	1028	1028	650	15	11.0	7.3	179	9.4
03...	1034	1028	1028	650	20	11.0	7.4	177	9.4
03...	1035	1028	1028	650	25	11.0	7.4	179	9.4
03...	1036	1028	1028	650	30	11.0	7.4	180	9.4
03...	1037	1028	1028	870	1	11.0	7.4	181	9.4
03...	1038	1028	1028	870	5	11.0	7.4	181	9.4
03...	1039	1028	1028	870	10	10.9	7.4	181	9.4
03...	1040	1028	1028	870	15	10.9	7.4	181	9.4
03...	1041	1028	1028	870	20	10.9	7.4	181	9.4
03...	1042	1028	1028	870	25	10.9	7.4	181	9.4
03...	1043	1028	1028	870	30	10.9	7.4	181	9.4
03...	1044	1028	1028	1130	1	11.0	7.4	171	9.3
03...	1045	1028	1028	1130	5	11.0	7.4	171	9.3
03...	1046	1028	1028	1130	10	11.0	7.4	170	9.3
03...	1047	1028	1028	1130	15	11.0	7.4	170	9.3
03...	1048	1028	1028	1130	20	11.0	7.4	171	9.3
03...	1049	1028	1028	1130	25	11.0	7.4	170	9.3
03...	1050	1028	1028	1130	30	11.0	7.4	171	9.3
03...	1051	1028	1028	1130	35	11.0	7.4	171	9.3
03...	1052	1028	1028	1130	40	11.0	7.4	172	9.3
03...	1053	1028	1028	1130	45	11.0	7.4	171	9.3
03...	1054	1028	1028	1390	1	11.0	7.4	165	9.3
03...	1055	1028	1028	1390	5	11.0	7.4	165	9.3
03...	1056	1028	1028	1390	10	11.0	7.4	165	9.3
03...	1057	1028	1028	1390	15	11.0	7.4	165	9.3
03...	1058	1028	1028	1390	20	11.0	7.4	165	9.3
03...	1059	1028	1028	1390	25	11.0	7.4	166	9.3
03...	1100	1028	1028	1390	30	11.0	7.4	166	9.3
03...	1101	1028	1028	1390	35	11.0	7.4	165	9.3
03...	1102	1028	1028	1390	40	11.0	7.4	166	9.3
03...	1103	1028	1028	1390	45	11.0	7.4	166	9.3
03...	1104	1028	1028	1390	50	11.0	7.4	166	9.3
03...	1105	1028	1028	1650	1	11.0	7.4	187	9.3
03...	1106	1028	1028	1650	5	11.0	7.4	188	9.3
03...	1107	1028	1028	1650	10	11.0	7.4	188	9.3
03...	1108	1028	1028	1650	15	11.0	7.4	187	9.3
03...	1109	1028	1028	1650	20	11.0	7.4	188	9.3
03...	1110	1028	1028	1650	25	11.0	7.4	187	9.3
03...	1111	1028	1028	1650	30	11.0	7.4	187	9.3
03...	1112	1028	1028	1650	35	11.0	7.4	188	9.3
03...	1113	1028	1028	1650	40	11.0	7.4	187	9.3
03...	1114	1028	1028	1650	45	11.0	7.4	187	9.3
03...	1115	1028	1028	1650	50	11.0	7.4	188	9.3
03...	1116	1028	1028	2050	1	11.0	7.4	165	9.4
03...	1117	1028	1028	2050	5	11.0	7.4	165	9.4
03...	1118	1028	1028	2050	10	11.0	7.4	165	9.4
03...	1119	1028	1028	2050	15	11.0	7.4	166	9.4
03...	1120	1028	1028	2050	20	11.0	7.4	165	9.4
03...	1121	1028	1028	2050	25	10.9	7.4	166	9.4
03...	1122	1028	1028	2050	30	10.9	7.4	166	9.4
03...	1123	1028	1028	2050	35	10.9	7.4	167	9.4
03...	1124	1028	1028	2350	1	11.0	7.4	168	9.5
03...	1125	1028	1028	2350	5	11.0	7.4	168	9.5
03...	1126	1028	1028	2350	10	10.9	7.3	168	9.5
03...	1127	1028	1028	2350	15	10.9	7.3	168	9.5
03...	1128	1028	1028	2700	1	10.9	7.3	168	9.5
03...	1129	1028	1028	2700	5	10.9	7.3	168	9.5
03...	1130	1028	1028	2700	10	10.9	7.4	168	9.5
03...	1131	1028	1028	3100	1	10.9	7.4	168	9.5



## DELAWARE RIVER BASIN

## 01477050 DELAWARE RIVER AT CHESTER, PA--Continued

## CROSS-SECTION ANALYSES, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003--Continued

Date	Time	Agency col- lecting sample, code (00027)	Agency ana- lyzing sample, code (00028)	Sample loc- ation, cross section ft from rt bank (72103)	Sam- pling depth, feet (00003)	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, wat unf µS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)
APR 2003									
03...	1132	1028	1028	3100	5	10.9	7.4	168	9.5
03...	1133	1028	1028	3100	10	10.9	7.4	168	9.5
03...	1134	1028	1028	3500	1	10.9	7.4	167	9.5
03...	1135	1028	1028	3500	5	10.9	7.4	168	9.5
03...	1136	1028	1028	3500	10	10.9	7.4	168	9.5
03...	1137	1028	1028	3850	1	10.9	7.4	167	9.5
03...	1138	1028	1028	3850	5	10.9	7.4	167	9.5
03...	1139	1028	1028	3850	10	10.9	7.4	167	9.5
03...	1140	1028	1028	4250	1	11.0	7.4	167	9.5
03...	1141	1028	1028	4250	5	10.9	7.4	167	9.5
03...	1142	1028	1028	4250	10	10.9	7.4	167	9.5
03...	1143	1028	1028	4250	15	11.0	7.4	167	9.5
03...	1144	1028	1028	4600	1	10.9	7.4	168	9.5
03...	1145	1028	1028	4600	5	10.9	7.4	168	9.5
03...	1146	1028	1028	4600	10	11.0	7.4	168	9.5
03...	1147	1028	1028	4860	1	11.0	7.4	168	9.6
03...	1148	1028	1028	4860	5	11.0	7.4	170	9.6
03...	1149	1028	1028	4860	10	11.0	7.4	170	9.6
03...	1150	1028	1028	4860	15	11.0	7.4	170	9.6
03...	1151	1028	1028	5150	0	--	--	--	--