

DELAWARE RIVER BASIN

01474703 DELAWARE RIVER AT FORT MIFFLIN AT PHILADELPHIA, PA

LOCATION.--Lat 39°52'45", long 75°12'11", Philadelphia County, Hydrologic Unit 02040202, on right bank at outer end of L-shaped pier at Fort Mifflin, 0.4 mi downstream from mouth of Schuylkill River, and at Philadelphia.

DRAINAGE AREA.--10,000 mi², approximately.

PERIOD OF RECORD.--Water years 1970-76, 1981 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1970 to December 1971, February 1981 to November 1999, November 2001 to current year.

WATER TEMPERATURE: June 1972 to June 1976, February 1981 to November 1999, November 2001 to current year.

INSTRUMENTATION.--Water-quality monitor July 1970 to June 1976 and since Feb. 1981. Satellite telemetry at station.

REMARKS.--Specific conductance and water temperature records rated good. Interruptions in the record were due to malfunctions of the recording or monitoring instruments.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,340 microsiemens, Aug. 11, 1999; minimum, 90 microsiemens, Apr. 11, 17, 19, 29, 1983, Apr. 29, 1984.

WATER TEMPERATURE: Maximum, 31.0°C, Aug. 4-6, 13, 1975; minimum, 0.5°C, Feb. 5, 1981, Jan. 11, 13, 14, 1999.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,320 microsiemens, Sept. 26; minimum, 162 microsiemens, May 22.

WATER TEMPERATURE: Maximum, 29.0°C, Aug. 4; minimum, 3.0°C, Jan. 8, 13, 14.

SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	713	554	608	410	361	385
2	---	---	---	---	---	---	795	514	601	418	367	385
3	---	---	---	---	---	---	---	---	---	424	374	389
4	---	---	---	---	---	---	671	533	582	449	379	400
5	---	---	---	---	---	---	649	522	567	443	370	401
6	---	---	---	---	---	---	688	522	578	418	375	393
7	---	---	---	539	449	476	690	525	571	418	379	400
8	---	---	---	593	450	485	694	524	577	462	367	401
9	---	---	---	581	460	494	647	523	589	424	375	393
10	---	---	---	588	444	502	671	531	573	407	373	387
11	---	---	---	571	466	499	661	510	568	434	371	390
12	---	---	---	611	468	510	683	511	556	421	375	395
13	---	---	---	611	469	513	875	501	575	437	362	400
14	---	---	---	650	474	521	657	516	561	424	370	395
15	---	---	---	653	480	532	621	486	544	450	380	397
16	---	---	---	730	496	560	707	487	542	471	385	409
17	---	---	---	824	503	581	855	495	598	468	359	399
18	---	---	---	793	520	597	766	561	648	449	388	406
19	---	---	---	722	533	586	---	---	---	426	374	399
20	---	---	---	679	537	584	---	---	---	450	377	407
21	---	---	---	750	520	582	538	415	468	449	389	422
22	---	---	---	728	543	610	504	414	448	484	400	427
23	---	---	---	748	550	611	495	416	445	439	394	416
24	---	---	---	796	553	624	480	408	443	441	394	420
25	---	---	---	848	574	633	451	384	422	568	406	471
26	---	---	---	742	577	635	436	384	411	497	420	448
27	---	---	---	727	562	612	455	386	410	526	425	451
28	---	---	---	723	546	610	439	372	400	501	412	444
29	---	---	---	866	558	611	430	373	392	501	420	445
30	---	---	---	759	562	619	424	366	388	483	424	443
31	---	---	---	---	---	---	404	369	384	469	418	436
MONTH	---	---	---	866	444	566	875	366	516	568	359	411

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SPECIFIC CONDUCTANCE, MICROSIEMENS PER CENTIMETER AT 25° CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	493	413	434	356	323	332	297	243	263	290	216	246
2	500	412	439	345	310	324	298	246	261	256	209	224
3	446	391	406	514	310	359	---	---	---	306	218	256
4	451	384	404	518	337	414	---	---	---	361	219	265
5	488	380	410	498	327	360	295	221	253	334	199	238
6	426	379	394	361	316	335	281	218	245	260	200	228
7	426	377	390	398	314	339	270	222	242	256	183	220
8	425	377	389	348	310	321	279	220	243	245	188	215
9	422	377	389	365	307	321	279	225	242	246	192	215
10	407	363	384	452	298	340	300	219	244	240	191	210
11	477	370	398	384	304	327	290	227	240	240	193	212
12	403	365	383	352	305	317	318	225	252	243	190	214
13	420	366	384	339	296	313	307	221	246	267	202	219
14	403	345	372	358	305	318	319	223	247	322	169	246
15	376	345	365	369	299	319	332	227	261	221	166	184
16	370	341	357	395	302	328	361	232	281	193	172	185
17	419	341	357	342	303	317	319	233	270	247	184	199
18	419	337	351	436	303	334	304	230	257	286	187	232
19	357	318	344	468	304	365	265	227	243	286	182	228
20	369	322	340	468	316	361	248	218	233	267	176	219
21	391	322	347	476	320	392	239	214	229	252	173	211
22	403	308	348	389	258	322	242	221	233	263	162	213
23	377	328	342	313	257	288	245	222	234	254	177	207
24	386	320	336	290	245	276	265	223	241	268	177	213
25	349	315	332	298	269	280	299	232	245	274	175	216
26	354	326	336	305	269	284	301	234	257	261	184	210
27	380	321	337	349	273	303	263	220	241	253	180	205
28	386	326	342	342	278	310	264	224	242	233	186	204
29	---	---	---	337	265	295	346	211	267	246	186	204
30	---	---	---	333	264	291	323	211	260	234	179	202
31	---	---	---	312	255	272	---	---	---	226	176	196
MONTH	500	308	372	518	245	324	361	211	249	361	162	217
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	226	183	200	335	226	269	316	284	303	663	482	533
2	228	186	200	342	296	316	346	303	315	569	479	513
3	258	188	207	338	228	263	323	297	310	602	459	505
4	243	187	211	269	229	240	330	306	316	581	458	504
5	240	193	209	259	230	240	332	298	316	581	461	492
6	246	198	219	254	228	237	343	313	323	569	447	493
7	315	208	240	253	228	236	350	314	328	637	455	503
8	350	206	256	258	230	236	356	325	338	642	455	512
9	325	185	229	249	227	236	361	316	340	867	464	540
10	296	176	206	269	231	239	383	333	354	886	470	562
11	272	185	204	269	233	242	426	340	363	758	482	588
12	245	182	201	262	236	243	437	343	371	758	494	580
13	267	174	201	253	235	241	432	346	377	850	516	620
14	265	187	207	---	---	---	419	350	380	788	537	621
15	261	183	206	---	---	---	446	356	391	866	550	632
16	261	181	205	---	---	---	450	369	401	811	550	631
17	249	183	204	---	---	---	481	378	412	908	552	640
18	285	178	217	---	---	---	560	386	428	908	554	660
19	324	170	214	---	---	---	535	394	442	951	566	676
20	372	187	246	---	---	---	570	413	458	1080	570	691
21	309	188	222	---	---	---	602	426	479	1030	584	719
22	294	188	216	---	---	---	606	435	492	1100	601	728
23	290	185	217	---	---	---	609	440	493	977	616	749
24	290	189	223	---	---	---	621	450	515	1140	641	774
25	275	201	228	---	---	---	690	475	524	1070	637	774
26	261	198	216	---	---	---	634	478	523	1320	663	851
27	258	204	220	---	---	---	625	484	530	1290	657	824
28	294	200	233	---	---	---	600	483	532	850	615	697
29	272	212	231	---	---	---	634	483	537	891	599	660
30	273	209	229	314	275	294	599	504	535	755	580	638
31	---	---	---	322	289	300	600	483	527	---	---	---
MONTH	372	170	217	342	226	255	690	284	418	1320	447	630

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WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	13.0	12.5	12.5	5.5	5.0	5.0
2	---	---	---	---	---	---	12.5	12.0	12.5	5.0	4.5	5.0
3	---	---	---	---	---	---	---	---	---	5.0	4.0	4.5
4	---	---	---	---	---	---	12.5	12.0	12.5	4.5	4.0	4.5
5	---	---	---	---	---	---	12.5	12.0	12.5	4.5	4.0	4.5
6	---	---	---	---	---	---	12.5	12.0	12.5	4.5	4.0	4.0
7	---	---	---	14.0	13.5	14.0	12.5	12.5	12.5	4.5	3.5	4.0
8	---	---	---	14.0	13.5	14.0	12.5	12.0	12.0	4.0	3.0	3.5
9	---	---	---	14.0	13.5	13.5	12.5	11.5	12.0	4.0	3.0	3.5
10	---	---	---	13.5	13.0	13.5	12.0	11.5	11.5	4.0	3.0	3.5
11	---	---	---	13.5	13.0	13.0	12.0	11.5	11.5	4.0	3.0	3.5
12	---	---	---	13.0	12.5	12.5	11.5	11.0	11.5	4.0	3.0	3.5
13	---	---	---	12.5	12.5	12.5	11.5	11.0	11.5	4.0	3.0	3.5
14	---	---	---	12.5	12.0	12.5	11.5	11.0	11.5	4.0	3.0	3.5
15	---	---	---	13.0	12.0	12.5	11.5	11.0	11.0	4.0	3.0	3.5
16	---	---	---	12.5	12.0	12.5	11.0	10.5	10.5	4.0	3.5	4.0
17	---	---	---	12.5	12.0	12.5	11.0	10.5	10.5	4.0	3.5	4.0
18	---	---	---	12.5	12.0	12.0	11.0	10.0	10.5	4.0	3.5	4.0
19	---	---	---	12.5	12.0	12.0	---	---	---	4.0	3.0	3.5
20	---	---	---	12.5	12.0	12.0	---	---	---	4.0	3.0	3.5
21	---	---	---	12.0	11.5	12.0	9.5	8.5	9.0	3.5	3.5	3.5
22	---	---	---	12.0	11.5	11.5	9.0	8.5	9.0	4.0	3.5	3.5
23	---	---	---	12.0	11.5	11.5	9.0	8.5	8.5	4.0	3.5	3.5
24	---	---	---	12.0	11.5	11.5	9.0	8.5	8.5	4.0	3.5	4.0
25	---	---	---	12.0	11.5	12.0	8.5	8.0	8.0	4.5	4.0	4.0
26	---	---	---	12.0	12.0	12.0	8.0	7.5	8.0	4.5	4.0	4.0
27	---	---	---	12.0	11.5	12.0	7.5	7.0	7.5	4.5	4.0	4.0
28	---	---	---	12.5	12.0	12.0	7.0	6.5	7.0	5.0	4.0	4.5
29	---	---	---	12.5	12.0	12.0	7.0	6.0	6.5	5.0	4.5	4.5
30	---	---	---	13.0	12.0	12.5	6.5	5.5	6.0	5.5	5.0	5.0
31	---	---	---	---	---	---	6.0	5.0	5.5	5.5	5.0	5.5
MONTH	---	---	---	14.0	11.5	12.4	13.0	5.0	10.1	5.5	3.0	4.0
	FEBRUARY			MARCH			APRIL			MAY		
1	6.5	5.5	5.5	6.5	6.0	6.0	10.0	9.0	9.5	16.5	15.5	16.0
2	6.5	5.5	5.5	6.5	6.0	6.0	10.5	9.0	10.0	16.0	15.0	15.5
3	6.0	5.0	5.5	8.0	6.0	7.0	---	---	---	15.5	15.0	15.0
4	6.0	5.0	5.5	8.5	6.5	7.5	---	---	---	16.0	14.5	15.0
5	6.0	5.0	5.0	8.0	6.5	6.5	11.5	10.0	10.5	16.0	14.5	15.0
6	5.5	4.5	5.0	7.0	6.0	6.5	11.0	10.0	10.5	16.0	14.5	15.0
7	5.0	4.5	5.0	8.0	6.5	7.0	11.0	10.0	10.5	16.5	14.5	15.5
8	5.0	4.5	5.0	7.5	6.5	7.0	11.5	10.0	10.5	17.0	15.0	16.0
9	5.5	4.5	5.0	8.0	7.0	7.5	12.0	10.5	11.0	16.5	15.5	16.0
10	5.5	5.0	5.0	8.0	7.5	8.0	12.5	11.0	11.5	17.5	15.5	16.0
11	6.0	5.0	5.5	8.0	7.0	7.5	13.0	11.5	12.0	17.5	16.0	16.5
12	5.5	5.0	5.0	7.5	7.5	7.5	12.5	11.5	12.0	17.5	16.0	16.5
13	5.5	4.5	5.0	8.0	7.5	7.5	13.0	12.0	12.5	18.0	16.5	17.0
14	5.5	4.5	5.0	9.0	7.5	8.0	13.5	12.5	13.0	18.5	15.0	17.0
15	5.0	4.5	5.0	9.0	8.0	8.5	14.5	13.0	13.5	16.5	15.0	16.0
16	5.5	4.5	5.0	9.5	8.5	9.0	16.5	13.5	14.5	17.0	15.5	16.5
17	5.5	5.0	5.0	9.0	8.5	8.5	17.0	14.5	15.5	17.0	16.0	16.5
18	5.5	4.5	5.0	9.5	8.5	9.0	17.5	15.5	16.5	17.0	15.5	16.5
19	5.5	4.5	5.0	10.0	8.5	9.0	17.5	16.0	16.5	16.5	15.0	16.0
20	6.0	5.0	5.5	10.0	8.5	9.0	18.0	16.5	17.0	15.5	15.0	15.0
21	6.0	5.5	5.5	10.0	8.0	9.0	18.0	16.5	17.0	15.0	14.5	15.0
22	6.0	5.5	6.0	8.5	7.5	8.0	17.5	16.5	17.0	15.5	14.5	15.0
23	6.5	5.5	6.0	8.0	7.5	8.0	17.0	16.0	16.5	16.0	15.0	15.5
24	6.0	5.5	6.0	8.0	7.0	8.0	17.5	16.0	16.5	16.5	15.0	15.5
25	6.5	6.0	6.0	8.0	7.5	8.0	16.5	16.0	16.5	17.0	16.0	16.0
26	7.0	6.0	6.5	8.0	7.5	8.0	16.5	16.0	16.0	17.0	16.0	16.5
27	6.5	6.5	6.5	8.5	7.5	8.0	16.5	15.5	16.0	17.5	16.5	17.0
28	6.5	6.0	6.0	8.5	7.5	8.0	16.5	15.5	16.0	18.0	17.0	17.5
29	---	---	---	9.0	8.0	8.5	16.5	14.5	15.5	19.0	17.5	18.0
30	---	---	---	9.0	8.5	9.0	16.5	15.0	15.5	19.0	18.0	18.5
31	---	---	---	9.5	8.5	9.0	---	---	---	19.5	18.0	19.0
MONTH	7.0	4.5	5.4	10.0	6.0	7.9	18.0	9.0	13.9	19.5	14.5	16.2

