01427000 WEST BRANCH DELAWARE RIVER AT HANCOCK, NY

Upper Delaware Basin
Upper Delaware Subbasin

LOCATION.--Lat 41°57′08″, long 75°17′31″ referenced to North American Datum of 1927, Delaware County, NY, Hydrologic Unit 02040101, at bridge at end of Pennsylvania State Highway 191 in Hancock, and 1.3 mi upstream from confluence with East Branch Delaware River.

DRAINAGE AREA.--650 mi^2.

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1996 to current year.

INSTRUMENTATION.--Water-temperature satellite telemeter provides 15-minute-interval readings.

REMARKS.--Temperature readings prior to Oct. 1, 2007 rounded to the nearest 0.5°C. Water temperature is affected by release of water from upstream reservoir. Interruption of record was due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Prior to Oct. 1, 2007--Maximum, 25.0°C, July 11, 12, 2005; minimum, 0.0°C on many days during winter periods.
WATER TEMPERATURE: After Oct. 1, 2007--Maximum, 23.2°C, June 9, 2008; minimum, 0.0°C on several days during winter period.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 23.2°C, June 9; minimum, 0.0°C on several days during winter period.

01427000 WEST BRANCH DELAWARE RIVER AT HANCOCK, NY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			November			December			January	
1	12.5	9.9	11.3	10.4	8.5	9.6	3.3	0.7	1.9	3.4	1.7	2.7
2	12.9	10.5	11.6	10.0	7.2	8.5	0.8	0.0	0.3	3.2	1.2	2.2
3	14.2	10.9	12.5	8.2	6.6	7.3	2.1	0.2	1.3	1.7	0.8	1.2
4	14.4	11.1	12.8	8.0	6.1	7.1	1.3	0.4	0.8	2.5	0.6	1.5
5	14.5	11.2	12.9	8.8	6.3	7.6	1.1	0.1	0.6	3.1	1.6	2.3
6	15.2	11.9	13.6	9.4	7.8	8.5	0.6	0.0	0.2	3.4	2.6	3.0
7	15.1	12.7	13.8	7.8	5.4	6.9	0.3	0.0	0.1	4.0	3.0	3.4
8	15.8	12.7	14.4	5.9	3.9	5.0	1.4	0.3	0.8	4.0	2.9	3.4
9	16.5	14.0	15.2	5.8	4.2	5.1	1.5	0.5	1.0	4.8	3.1	3.9
10	17.1	14.7	15.8	6.3	4.6	5.5	2.9	1.4	2.2	3.7	2.8	3.3
11	16.0	14.0	14.7	5.8	3.2	4.5	2.6	1.6	2.1	3.8	3.2	3.5
12	14.0	11.5	13.1	5.2	4.0	4.5	3.0	1.8	2.5	4.0	3.2	3.7
13	12.5	10.2	11.3	7.9	5.1	6.5	1.9	0.0	0.9	3.5	2.6	3.0
14	11.4	9.8	10.7	7.7	5.7	6.7	2.5	0.3	1.5	3.3	3.0	3.1
15	12.6	10.9	11.6	8.0	6.7	7.4	1.9	0.7	1.4	3.2	2.4	2.9
16	14.0	10.7	12.4	6.8	5.0	6.2	0.7	0.0	0.2	2.7	1.8	2.4
17	14.3	11.4	12.9	5.5	4.2	4.9	0.5	0.0	0.2	2.3	1.2	1.8
18	15.6	13.0	14.3	5.7	4.5	5.0	1.7	0.0	0.8	3.6	1.9	2.7
19	16.8	14.8	15.8	5.0	4.2	4.6	3.5	1.5	2.4	2.3	1.2	1.8
20	16.1	13.4	14.9	5.3	4.3	4.8	4.2	3.4	3.8	2.0	0.8	1.4
21	15.1	11.9	13.5	7.4	5.2	6.3	3.9	3.1	3.5	2.1	0.3	1.2
22	15.3	11.7	13.6	9.1	6.8	7.9	4.2	3.3	3.7	2.1	0.8	1.4
23	15.4	13.7	14.5	6.8	2.7	4.8	4.9	3.7	4.2	2.4	1.2	1.9
24	14.6	12.6	13.5	3.5	1.6	2.6	3.7	2.0	2.9	2.3	1.1	1.6
25	14.3	11.8	12.9	4.0	1.8	2.9	3.7	3.3	3.5	2.2	0.7	1.4
26	11.8	10.3	11.0	5.0	2.9	3.9	3.8	2.8	3.3	2.2	0.9	1.6
27	12.7	11.1	11.9	6.2	4.9	5.5	3.9	3.4	3.7	3.0	1.4	2.2
28	12.1	9.4	10.9	5.2	4.1	4.6	4.6	3.6	4.1	3.0	1.3	2.0
29	10.3	8.2	9.2	5.2	3.8	4.4	4.9	3.8	4.2	2.6	1.3	1.9
30	10.5	7.6	8.9	4.5	3.1	3.7	4.0	3.0	3.6	2.9	1.3	2.4
31	11.0	8.1	9.5	---	---	---	3.7	2.5	3.1	2.8	0.8	1.8
Month	17.1	7.6	12.7	10.4	1.6	5.8	4.9	0.0	2.1	4.8	0.3	2.3

01427000 WEST BRANCH DELAWARE RIVER AT HANCOCK, NY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		February			March			April			May	
1	1.9	0.4	1.2	2.7	0.4	1.7	6.1	2.9	4.7	10.7	6.2	8.8
2	2.1	1.6	1.8	3.7	0.8	2.2	5.3	3.1	4.2	10.0	9.4	9.7
3	3.1	1.7	2.3	4.3	1.2	2.6	5.1	2.0	3.5	9.7	9.0	9.4
4	2.1	1.5	1.8	2.8	1.8	2.2	3.9	3.0	3.5	12.4	8.6	10.2
5	2.7	2.0	2.3	1.9	0.9	1.2	4.2	3.5	3.8	14.8	8.3	11.5
6	2.2	1.6	1.9	3.3	1.1	2.0	6.3	3.2	4.5	15.1	9.8	12.5
7	2.3	1.7	1.9	3.0	1.3	2.1	6.2	3.7	4.7	16.2	10.6	13.5
8	2.4	1.4	1.9	2.4	1.8	2.1	7.2	3.7	5.3	16.2	13.0	14.3
9	2.1	1.8	2.0	2.5	1.2	1.7	7.7	4.3	5.9	13.0	9.8	11.3
10	2.5	0.1	1.7	2.5	1.2	1.8	8.2	4.8	6.4	12.8	9.0	10.8
11	1.6	0.1	0.7	3.4	1.5	2.3	6.3	4.9	5.4	13.6	9.0	11.4
12	1.1	0.2	0.6	2.6	1.6	2.1	8.9	5.5	6.9	11.6	9.7	10.6
13	1.8	0.2	1.2	3.4	1.3	2.2	7.1	5.1	5.9	15.5	8.3	12.0
14	2.0	0.7	1.3	3.0	1.7	2.3	7.1	4.0	5.4	16.2	10.9	13.8
15	2.0	0.9	1.4	3.2	2.4	2.7	8.4	3.5	5.8	15.8	12.8	14.0
16	2.5	0.6	1.5	3.3	2.1	2.7	9.2	3.8	6.5	12.8	9.9	11.1
17	1.9	0.4	1.2	4.3	1.0	2.6	10.6	4.5	7.7	13.9	8.8	11.5
18	2.1	1.6	1.9	3.3	1.6	2.5	12.2	6.1	9.4	12.2	9.4	11.0
19	2.5	1.1	1.8	2.8	2.2	2.5	14.5	8.7	11.8	11.2	7.9	9.4
20	2.3	0.8	1.4	3.1	2.2	2.7	14.1	11.2	12.7	10.1	7.8	9.1
21	2.2	0.7	1.3	3.6	1.5	2.4	16.3	11.5	13.7	12.1	8.4	10.3
22	1.2	0.7	0.9	4.2	1.5	2.5	13.2	8.4	11.0	11.7	9.2	10.5
23	2.1	1.1	1.6	4.3	1.4	2.6	10.7	6.2	8.8	13.4	9.4	11.3
24	3.2	0.5	1.7	4.6	1.4	2.8	11.2	6.0	8.7	14.2	10.2	12.1
25	3.5	0.5	1.9	4.7	1.3	3.0	11.4	5.9	8.9	17.2	9.9	13.6
26	1.8	0.9	1.3	5.2	2.6	3.7	15.5	9.4	12.5	18.3	12.3	15.6
27	2.5	0.9	1.7	3.7	2.1	3.0	15.5	11.7	13.5	19.2	15.1	17.0
28	1.9	0.3	1.0	3.1	2.4	2.8	13.1	9.8	11.0	17.6	12.4	15.0
29	2.4	0.1	1.0	4.8	1.7	3.0	11.2	8.4	9.5	17.8	11.4	14.7
30	---	---	---	5.3	1.2	3.2	10.6	7.2	8.7	18.1	12.3	15.4
31	---	---	---	3.4	2.3	2.7	---	---	---	18.0	14.3	16.0
Month	3.5	0.1	1.5	5.3	0.4	2.4	16.3	2.0	7.7	19.2	6.2	12.2

01427000 WEST BRANCH DELAWARE RIVER AT HANCOCK, NY—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		June			July			August			September	
1	18.7	14.8	16.5	20.6	16.8	18.6	21.4	17.2	19.2	15.0	9.1	12.3
2	19.3	13.7	16.6	21.0	15.6	18.3	19.6	16.7	18.1	14.9	11.2	13.3
3	17.9	14.3	16.2	18.7	16.3	17.4	18.7	15.1	16.9	14.8	11.1	13.2
4	15.8	14.3	14.9	16.3	12.3	14.4	19.2	15.4	17.2	14.7	10.8	13.0
5	16.6	13.3	15.0	14.6	9.4	12.2	20.8	15.8	18.3	18.0	11.2	14.8
6	19.7	14.9	17.1	17.4	11.5	14.6	22.0	17.6	19.6	17.8	16.7	17.3
7	22.9	16.8	19.8	20.6	15.8	18.1	20.2	17.1	18.6	20.9	16.4	18.5
8	21.2	18.2	19.7	20.0	16.1	18.1	17.9	14.9	16.4	21.8	17.0	19.3
9	23.2	16.9	20.1	19.9	17.2	18.4	16.3	13.5	14.9	19.0	15.7	17.4
10	21.2	16.6	19.0	20.2	14.9	17.7	15.9	12.3	13.9	18.6	14.3	16.2
11	17.2	12.4	15.2	18.2	10.9	14.9	16.8	13.9	15.3	18.5	14.4	16.5
12	21.2	15.0	18.0	14.9	8.5	12.0	17.8	14.4	16.0	17.0	12.6	15.5
13	20.5	15.6	18.1	19.7	10.4	13.8	17.4	14.3	15.8	15.3	12.1	13.6
14	17.7	13.5	15.7	20.2	16.5	18.2	18.4	14.3	16.3	20.5	15.1	17.9
15	18.8	11.8	15.4	21.5	16.4	18.9	16.4	13.4	15.0	21.3	18.1	19.7
16	19.9	15.9	17.6	22.3	16.5	19.5	15.0	10.9	13.2	18.4	16.1	17.3
17	17.6	14.8	15.9	20.9	17.6	19.3	14.9	11.1	13.2	19.3	14.6	16.8
18	14.9	13.1	14.1	18.5	13.0	16.6	14.6	10.6	12.9	19.2	15.1	16.9
19	15.4	12.2	13.8	15.0	10.0	12.7	13.7	10.5	12.3	15.5	12.3	14.1
20	15.5	13.1	14.1	18.6	10.2	13.8	13.5	8.4	11.2	12.3	10.3	11.4
21	16.6	11.7	14.2	19.6	16.2	17.8	13.7	8.9	11.5	12.8	8.9	11.1
22	18.0	13.1	15.6	18.8	16.2	17.5	14.1	9.0	11.7	13.7	10.5	---
23	20.5	15.8	17.9	18.5	16.4	17.6	13.4	8.9	11.4	12.4	---	---
24	19.8	16.3	18.1	19.7	16.8	18.1	13.6	8.6	11.3	12.8	8.7	10.8
25	20.2	15.1	17.6	20.7	16.1	18.3	12.6	9.0	11.0	12.8	9.4	11.2
26	17.7	15.5	16.4	20.4	16.6	18.6	13.2	8.1	10.9	11.6	10.1	10.9
27	17.2	14.6	15.7	20.8	17.7	18.9	13.0	8.3	11.0	14.9	11.4	13.2
28	18.7	13.7	16.3	20.7	16.1	18.4	12.2	9.0	10.9	16.3	14.4	15.4
29	19.2	16.5	17.7	21.2	16.6	19.0	11.8	9.2	9.9	15.4	14.4	15.0
30	20.2	16.2	18.3	20.7	17.2	19.0	11.4	9.0	10.1	16.0	13.6	14.9
31	---	---	---	21.5	16.9	19.3	13.8	8.7	11.3	---	---	---
Month	23.2	11.7	16.7	22.3	8.5	17.1	22.0	8.1	14.0	21.8	---	---