01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, NY

Upper Delaware Basin
Upper Delaware Subbasin

LOCATION.--Lat 42°04′29″, long 75°23′47″ referenced to North American Datum of 1927, Delaware County, NY, Hydrologic Unit 02040101, on right bank at Stilesville, 0.5 mi upstream from Cold Spring Creek, 1.4 mi downstream from Cannonsville Dam, and 2.0 mi northeast of Deposit. Water-quality sampling site at discharge station.

DRAINAGE AREA.--456 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1952 to current year.

REVISED RECORDS.--WDR NY-05-1: 1973, 1977, 1979, 1986, 1991, 2004.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 992.23 ft above NGVD of 1929 (levels by Board of Water Supply, City of New York). Prior to Oct. 1, 1964, at site 600 ft downstream at datum 1.37 ft higher.

REMARKS.--No estimated daily discharges. Records fair except those below 100 ft^3/s, which are poor. Subsequent to October 1963, entire flow from 454 mi^2 of drainage area controlled by Cannonsville Reservoir (see Reservoirs in Delaware River Basin). Part of flow diverted for New York City municipal supply (see Reservoirs in Delaware River Basin). Remainder of flow (except for conservation releases and spill) impounded for release during period of low flow in the lower Delaware River basin, as directed by the Delaware River Master. Satellite gage-height and temperature telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge prior to construction of Cannonsville Reservoir, 17,500 ft^3/s, Jan. 22, 1959, gage height, 9.01 ft, site and datum then in use; maximum discharge since construction of Cannonsville Reservoir, 33,100 ft^3/s, June 28, 2006, gage height, 17.72 ft; minimum discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,180 ft^3/s, Mar. 9, gage height, 11.19 ft; minimum discharge, 70 ft^3/s, May 1, gage height, 5.78 ft.

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, NY—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,050	90	115	1,500	1,490	1,600	1,860	129	238	256	256	549
2	1,090	90	117	1,500	1,490	1,590	2,570	211	253	255	257	617
3	1,110	90	116	1,500	1,500	1,590	2,890	212	255	255	259	644
4	1,130	90	115	1,500	1,440	1,600	2,930	213	255	733	261	656
5	1,250	90	115	1,500	1,200	1,770	3,330	212	253	525	259	121
6	1,260	91	115	1,490	948	4,190	3,320	210	254	273	261	102
7	1,260	91	115	1,480	593	4,350	3,020	210	253	323	260	101
8	1,180	91	115	1,490	1,990	5,250	2,690	211	255	262	391	101
9	899	91	117	1,510	2,570	7,790	2,390	211	264	284	454	106
10	605	91	119	1,520	2,600	6,760	2,120	211	619	262	324	102
11	266	91	120	1,520	2,290	5,030	1,910	210	431	938	326	102
12	116	92	118	1,530	1,930	3,930	1,810	210	261	852	331	394
13	90	93	187	1,890	1,780	3,370	1,730	210	389	324	336	115
14	84	91	262	2,210	2,010	2,850	1,620	210	514	261	382	103
15	81	96	263	2,260	2,030	2,920	1,530	210	274	259	645	103
16	80	95	263	2,120	1,920	2,510	1,360	213	259	259	597	103
17	174	93	262	1,900	1,730	2,120	941	212	259	260	694	103
18	101	92	542	1,730	2,180	1,810	512	212	258	834	704	209
19	85	92	1,330	1,620	3,550	1,690	263	211	257	872	878	443
20	321	92	1,480	1,510	3,450	2,560	247	213	403	359	883	1,060
21	113	93	1,480	1,500	2,980	3,250	408	213	394	340	910	675
22	84	92	1,480	1,500	2,540	3,120	908	213	265	262	948	762
23	83	100	1,490	1,500	2,210	2,770	1,390	212	262	265	989	997
24	84	115	1,520	1,500	1,910	2,440	1,050	212	259	261	1,000	1,000
25	84	116	1,520	1,500	1,710	2,120	594	212	259	259	988	654
26	85	122	1,520	1,500	1,610	1,860	252	212	258	259	865	397
27	90	131	1,510	1,500	1,590	1,720	250	212	340	261	801	120
28	92	126	1,500	1,510	1,590	1,680	142	212	259	259	806	114
29	90	120	1,500	1,520	1,590	1,680	78	212	256	259	826	112
30	90	116	1,500	1,520	---	1,620	72	213	256	259	825	111
31	91	---	1,500	1,510	---	1,610	---	212	---	256	862	---
Total	13,218	2,963	22,506	49,840	56,421	89,150	44,187	6,476	9,012	11,586	18,578	10,776
Mean	426	98.8	726	1,608	1,946	2,876	1,473	209	300	374	599	359
Max	1,260	131	1,520	2,260	3,550	7,790	3,330	213	619	938	1,000	1,060
Min	80	90	115	1,480	593	1,590	72	129	238	255	256	101

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	535	345	419	429	454	882	1,292	680	563	607	622	595
Max	1,593	1,971	2,644	1,910	2,309	2,876	4,311	1,883	2,932	1,646	1,675	1,867
(WY)	(1970)	(1997)	(1997)	(1978)	(1976)	(2008)	(1993)	(1996)	(2006)	(1971)	(1968)	(2004)
Min	26.2	21.5	9.10	9.25	9.89	11.1	19.7	25.2	72.7	63.9	92.3	34.0
(WY)	(1964)	(1966)	(1966)	(2002)	(1967)	(1989)	(1985)	(1966)	(1965)	(1965)	(1985)	(1964)

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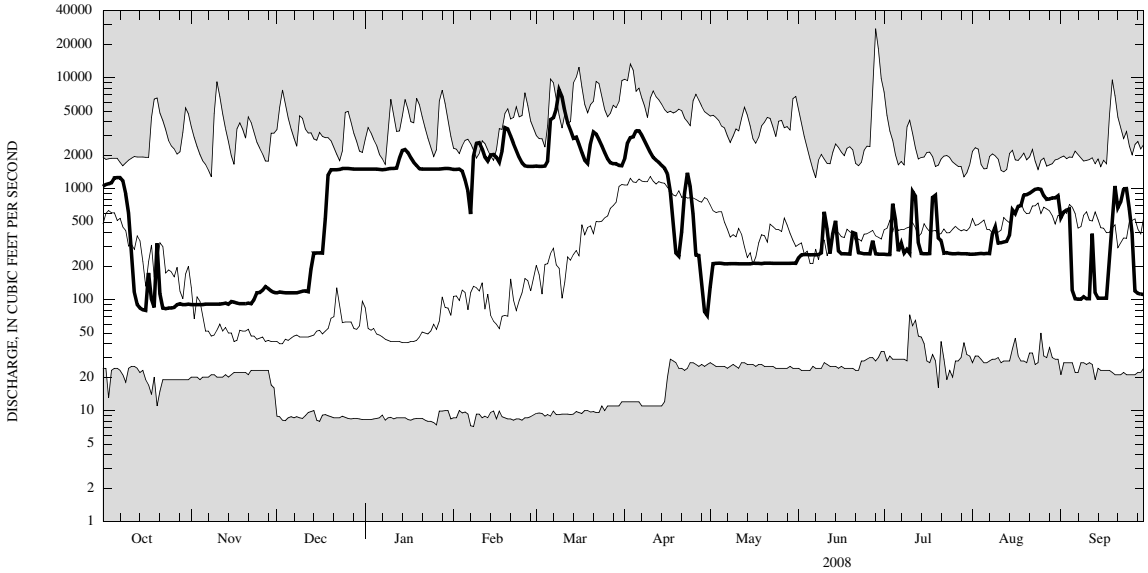
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1964 - 2008	
Annual total	280,792		334,713			
Annual mean	769		915		619	
Highest annual mean					1,053	2004
Lowest annual mean					87.3	1965
Highest daily mean	5,650	Mar 28	7,790	Mar 9	27,700	Jun 28, 2006
Lowest daily mean	80	Oct 16	72	Apr 30	7.2	Feb 8, 1966
Annual seven-day minimum	86	Oct 22	86	Oct 22	8.1	Jan 20, 1966
10 percent exceeds	1,520		2,120		1,500	
50 percent exceeds	422		370		331	
90 percent exceeds	96		93		25	



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, NY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.
CHEMICAL DATA: 1959-60 (a) unpublished, 1969 (a), 1970 (a) unpublished, 1971, 1973 (b), 1974 (d), 1975 (b).
MINOR ELEMENTS DATA: 1971 (b).
NUTRIENT DATA: 1970 (a) unpublished, 1971, 1973 (b), 1974 (d), 1975 (b).
BIOLOGICAL DATA: Bacteria--1973 (b), 1974 (d), 1975 (b).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1962 to current year.

INSTRUMENTATION.--Water-temperature satellite telemeter provides 15-minute-interval readings. From October 1975 to February 1993, water-temperature recorder provided one-hour-interval readings. Prior to October 1975, water-temperature recorder provided continuous recordings.

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. Interruptions of record were due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Prior to Oct. 1, 2007--Maximum (water years 1963-78, 1980-82, 1984-86, 1988, 1990-92, 1994-95, 1997, 1999-2002, 2004-07), 30.5°C, July 2, 1963; minimum (water years 1963-95, 1998-2003, 2006), 0.0°C on many days during winter periods, except 1969, 1973, 1986-87, 1990-91, 1994-95, 2001, 2006.
WATER TEMPERATURE: After Oct. 1, 2007--Maximum, 15.4°C, Oct. 22, 2007; minimum, 1.0°C, Feb. 12, 2008.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 15.4°C, Oct. 22; minimum, 1.0°C, Feb. 12.

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, 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	10.7	9.0	9.9	11.7	10.6	11.2	6.0	4.2	4.8	4.2	3.7	4.0
2	10.6	9.4	10.1	11.8	9.5	10.5	---	3.9	---	4.1	3.4	3.7
3	11.2	10.2	10.6	10.5	9.3	9.9	6.2	4.6	5.7	3.6	3.0	3.3
4	11.4	10.3	10.8	10.5	9.2	9.8	4.6	3.7	---	3.8	3.2	3.4
5	12.2	10.6	11.3	11.2	9.3	10.2	5.9	4.0	---	4.1	3.5	3.7
6	12.4	11.3	11.7	10.7	9.7	10.2	5.7	3.9	4.6	3.6	3.4	3.5
7	12.7	11.6	12.2	9.7	8.7	9.1	5.2	3.8	4.4	4.0	3.5	3.6
8	13.7	11.9	12.7	9.9	8.1	9.0	5.9	4.8	5.4	4.0	3.6	3.7
9	13.6	12.6	13.0	---	8.8	---	5.1	4.3	4.7	4.3	3.6	3.8
10	14.2	12.3	13.1	---	---	---	5.8	5.0	5.3	3.9	3.5	3.6
11	13.3	11.9	12.5	---	---	---	5.1	4.2	4.6	3.6	3.2	3.4
12	12.1	11.0	11.8	---	---	---	5.1	4.0	4.9	3.6	3.2	3.4
13	---	---	---	10.7	9.3	10.0	4.2	3.0	3.7	3.2	2.6	2.9
14	---	---	---	10.0	8.4	9.2	5.0	4.1	4.6	3.1	2.9	3.0
15	---	---	---	9.7	8.4	9.0	5.0	3.9	4.3	3.1	2.8	2.9
16	14.3	---	---	8.4	6.7	7.6	4.3	3.2	3.8	2.9	2.2	2.6
17	13.6	11.4	12.5	8.2	6.4	7.2	4.1	3.1	3.6	2.7	2.1	2.4
18	14.2	12.4	13.1	8.6	7.6	8.1	5.1	3.7	4.2	3.3	2.4	2.7
19	14.2	12.8	13.4	8.3	7.3	7.8	4.8	4.4	4.6	2.8	2.1	2.5
20	13.7	12.1	12.9	8.3	7.4	7.8	4.9	4.7	4.8	3.0	2.6	2.8
21	14.7	11.6	12.8	9.0	8.0	8.5	4.9	4.5	4.7	3.4	2.7	2.9
22	15.4	11.2	12.9	9.3	7.3	8.7	4.9	4.6	4.7	2.9	2.7	2.9
23	14.1	12.5	13.2	7.3	5.2	5.9	5.0	4.7	4.8	3.2	2.6	2.8
24	13.2	12.1	12.5	7.2	5.2	6.2	4.7	4.5	4.6	3.0	2.5	2.7
25	13.7	11.7	12.6	7.7	5.8	6.7	4.6	4.5	4.5	3.0	2.3	2.6
26	12.2	10.9	11.7	7.3	6.2	6.8	4.7	4.3	4.5	2.8	2.5	2.6
27	12.8	12.2	12.4	7.7	6.7	7.4	4.5	4.4	4.5	3.2	2.4	2.7
28	12.3	10.7	11.3	7.4	5.6	6.5	4.8	4.4	4.5	3.2	2.5	2.7
29	12.2	10.1	11.1	---	6.2	---	4.9	4.4	4.5	2.9	2.5	2.7
30	12.9	10.3	11.4	7.0	---	---	4.6	4.0	4.4	3.1	2.7	2.8
31	13.0	10.7	11.7	---	---	---	4.4	3.9	4.2	3.2	2.4	2.7
Month	---	---	---	---	---	---	---	3.0	---	4.3	2.1	3.1

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, 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	2.8	2.3	2.5	2.9	2.2	2.4	4.7	3.1	3.9	7.5	---	---
2	2.9	2.4	2.6	3.3	2.2	2.5	3.5	2.7	3.0	6.7	5.1	5.7
3	3.0	2.4	2.6	3.4	2.2	2.6	3.5	2.5	3.0	6.3	5.3	5.7
4	2.7	2.4	2.6	2.6	2.4	2.5	3.3	3.0	3.1	7.2	5.2	5.9
5	2.9	2.4	2.7	2.6	1.3	2.3	3.7	3.1	---	8.5	4.7	6.2
6	3.0	2.4	2.8	2.2	1.4	1.9	---	---	---	8.3	5.0	6.4
7	3.2	2.6	2.9	2.3	1.8	2.0	---	---	---	9.2	5.3	6.8
8	2.6	1.5	1.9	2.1	2.0	2.1	4.5	---	---	8.0	5.5	6.4
9	2.2	2.0	2.1	2.1	1.9	2.0	4.9	3.6	4.1	6.5	5.3	5.8
10	2.3	1.5	1.9	2.2	2.0	2.0	5.2	3.7	4.3	7.1	5.0	5.8
11	2.1	1.2	1.6	2.3	2.0	2.1	4.6	3.9	4.2	8.6	4.9	6.3
12	1.7	1.0	1.3	2.2	2.0	2.1	6.1	4.2	5.0	7.4	5.1	6.0
13	2.1	1.5	1.8	2.4	1.9	2.1	5.1	4.1	4.4	8.9	4.8	6.5
14	2.1	1.5	1.7	2.3	2.0	2.2	4.9	3.9	4.4	9.3	5.0	6.7
15	2.0	1.5	1.8	2.5	2.2	2.3	5.6	4.0	4.7	7.4	5.6	6.3
16	2.4	1.3	1.7	2.5	1.9	2.2	6.1	4.3	5.0	6.4	5.4	5.7
17	2.2	1.4	1.8	3.1	1.7	2.2	7.1	4.6	5.5	8.8	5.2	6.3
18	2.8	2.0	2.4	2.8	1.9	2.3	7.5	4.8	5.9	6.1	5.2	5.7
19	2.3	1.8	2.0	2.7	2.3	2.5	9.4	5.0	6.7	7.3	4.8	5.7
20	2.2	1.8	1.9	2.7	2.1	2.4	8.7	5.4	6.6	6.9	4.8	5.7
21	2.2	1.7	1.9	2.7	2.1	2.3	8.4	5.5	6.6	7.4	5.2	6.0
22	1.9	1.8	1.9	2.9	2.1	2.4	7.5	5.1	6.0	7.1	5.2	5.9
23	2.1	1.6	1.9	3.0	2.1	2.4	6.3	4.9	5.4	7.7	5.2	6.2
24	2.8	1.4	1.9	3.3	2.1	2.5	6.8	4.8	5.6	7.6	5.4	6.3
25	2.9	1.4	2.0	3.6	2.0	2.6	7.6	4.8	5.9	9.1	5.2	6.7
26	2.3	2.1	2.2	3.8	2.6	3.0	9.2	5.2	6.7	10.2	5.5	7.3
27	2.6	2.1	2.3	3.1	2.3	2.7	8.5	5.2	6.4	8.7	5.9	7.0
28	2.6	2.0	2.2	2.9	2.6	2.8	---	5.2	---	9.0	5.8	7.0
29	3.0	1.9	2.3	3.8	2.3	2.9	---	---	---	9.2	5.6	6.9
30	---	---	---	4.0	2.4	3.0	---	---	---	9.7	5.8	7.0
31	---	---	---	3.1	2.9	3.0	---	---	---	8.7	6.1	7.0
Month	3.2	1.0	2.1	4.0	1.3	2.4	---	---	---	10.2	---	---

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, 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	8.3	6.1	6.9	8.7	6.6	7.3	9.5	7.0	8.0	10.2	7.6	8.5
2	8.9	6.0	7.2	9.3	6.4	7.5	9.2	7.0	7.7	10.6	7.7	8.6
3	8.8	6.2	7.0	7.9	6.5	7.1	9.0	6.9	7.7	10.0	7.8	8.6
4	8.2	6.4	7.0	8.1	6.2	7.1	9.5	6.9	7.8	9.9	7.9	8.7
5	7.9	6.2	6.9	8.4	6.4	7.1	10.6	7.0	8.1	13.7	7.7	10.2
6	9.5	6.5	7.4	9.3	6.5	7.6	9.6	7.1	8.0	9.8	8.0	8.6
7	9.2	6.4	7.4	9.6	6.4	7.5	8.8	7.1	7.7	12.5	8.2	9.7
8	8.7	6.5	7.2	10.1	6.5	7.9	9.1	7.0	7.9	11.6	7.8	9.3
9	9.6	6.4	7.6	9.2	6.6	7.4	8.9	7.2	7.9	10.1	7.7	8.7
10	9.1	6.4	7.4	9.4	6.6	7.6	9.0	7.1	7.7	11.5	7.7	9.0
11	8.8	6.4	7.4	7.7	6.2	6.9	9.3	7.0	7.7	11.5	7.5	9.1
12	9.6	6.3	7.5	8.6	6.6	7.6	9.3	7.2	7.8	9.2	8.0	8.4
13	9.6	6.0	7.5	9.6	6.8	7.9	9.0	7.1	7.8	9.2	7.8	8.5
14	7.8	6.2	6.9	9.0	6.8	7.6	9.7	7.0	8.0	12.3	8.3	9.8
15	8.9	6.4	7.4	9.5	6.7	7.7	9.6	7.1	7.8	12.0	9.2	10.3
16	9.5	6.4	7.3	10.0	6.7	7.8	8.7	7.0	7.7	10.2	8.0	8.8
17	8.1	6.3	7.0	9.3	6.7	7.7	9.0	7.1	7.9	12.5	7.9	9.2
18	7.3	6.2	6.7	8.6	6.4	7.4	8.8	7.1	7.9	10.5	7.9	8.8
19	8.0	6.0	6.8	8.1	6.8	7.3	8.9	7.2	7.7	10.6	7.3	8.6
20	8.2	5.9	6.9	9.5	7.0	7.9	9.0	6.9	7.7	9.7	7.6	8.5
21	8.8	6.2	7.2	8.8	6.9	---	9.4	6.9	7.9	9.6	8.2	8.7
22	9.0	6.4	7.4	9.5	7.0	7.8	9.5	7.2	7.9	9.9	8.6	9.0
23	9.1	6.5	7.5	7.8	7.0	7.5	9.1	7.2	7.9	10.1	8.2	8.9
24	8.8	6.4	7.3	9.4	6.9	7.8	9.2	7.1	7.9	10.3	8.5	9.1
25	9.2	6.4	7.4	10.0	6.8	7.9	8.7	7.4	7.8	10.4	8.7	9.3
26	7.9	6.7	7.1	10.7	6.8	8.1	9.1	7.0	7.9	9.3	8.8	9.0
27	8.2	6.4	7.1	9.5	6.9	7.8	9.5	7.2	8.1	10.5	8.8	9.5
28	9.8	6.4	7.6	9.2	6.8	7.7	9.2	7.4	8.0	10.1	8.7	9.3
29	10.0	6.6	7.5	9.7	7.0	8.0	7.9	7.6	7.7	9.7	8.7	9.2
30	9.3	6.4	7.5	9.1	7.0	7.8	8.4	7.6	7.8	11.6	8.9	9.9
31	---	---	---	9.1	7.0	7.8	9.4	7.5	8.2	---	---	---
Month	10.0	5.9	7.2	10.7	6.2	---	10.6	6.9	7.9	13.7	7.3	9.1