
Water-Data Report 2009

01303500 COLD SPRING BROOK AT COLD SPRING HARBOR, NY

Long Island Basin
Northern Long Island Subbasin

LOCATION.--Lat 40°51'26", long 73°27'50" referenced to North American Datum of 1927, Nassau County, NY, Hydrologic Unit 02030201, on left bank 270 ft upstream from State Highway 25A, at Cold Spring Harbor Fish Hatchery, and 1.0 mi southwest of village of Cold Spring Harbor.

DRAINAGE AREA.--7.83 mi², revised.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1950 to current year.

REVISED RECORDS.--WDR NY-81-2: 1954 (M), 1962-63 (M), 1971 (M), 1978-79, 1980 (M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 5.38 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges and those above 100 ft³/s, which are poor. Flow occasionally regulated at outlet of pond 40 ft above station. Diversion from this pond by Cold Spring Harbor Fish Hatchery bypasses station, except during the 1979 water year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 181 ft³/s, Jan. 21, 1979, gage height, 1.99 ft, result of regulation, from rating curve extended above 80 ft³/s; maximum gage height, 5.34 ft, Aug. 31, 1954, backwater from high tide, from high-water mark; minimum discharge, 0.15 ft³/s, Dec. 1, 1983, Mar. 6, 2007, all result of regulation; minimum gage height, 0.06 ft, Dec. 1, 7, 1983, both result of regulation.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 36 ft³/s, Dec. 12, gage height, 0.91 ft; maximum gage height, 2.30 ft, Oct. 28, backwater from high tide; minimum discharge, 2.0 ft³/s, June 1, 2; minimum gage height, 0.24 ft, Oct. 22.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.3	2.4	e3.8	2.6	3.0	2.7	3.0	3.7	2.2	e4.0	5.2	2.4
2	3.3	2.4	2.7	2.6	3.0	e4.0	3.1	4.4	2.1	e4.3	4.6	2.4
3	3.2	2.4	2.4	2.8	3.3	2.9	3.8	3.8	2.3	3.4	4.5	2.4
4	3.1	2.5	2.4	2.6	e3.2	2.8	3.9	4.0	3.4	3.0	3.8	2.4
5	3.3	2.6	2.4	2.8	2.9	2.8	3.1	3.9	e3.4	2.9	3.6	2.3
6	3.2	3.3	2.4	2.8	2.8	2.8	e4.0	4.7	3.4	2.7	3.5	2.3
7	3.2	2.9	2.5	e6.5	3.0	3.0	4.3	5.0	2.6	e3.5	3.1	2.2
8	3.2	2.7	2.4	4.4	3.1	3.2	3.2	e4.1	2.3	e9.0	3.0	2.2
9	3.4	2.6	2.4	2.9	3.2	e3.2	3.0	e5.6	4.2	5.1	3.0	2.4
10	3.2	2.4	2.9	2.8	3.1	2.9	3.0	3.3	3.4	4.5	3.2	2.3
11	3.1	2.4	e4.4	e3.0	3.1	2.8	e3.5	2.7	2.7	4.1	2.9	e3.8
12	3.1	2.4	e10	2.9	3.2	2.8	e4.0	2.6	7.2	4.3	2.8	4.3
13	3.2	e2.6	e4.4	2.8	2.9	2.8	3.3	2.5	4.0	4.0	2.8	3.2
14	3.2	2.5	e3.2	2.8	2.8	2.8	3.2	2.4	3.3	3.7	2.8	2.6
15	3.2	e3.5	3.0	2.8	2.9	2.8	3.5	2.8	3.2	3.5	2.8	2.4
16	3.3	3.8	3.0	2.8	2.8	2.8	3.2	2.6	3.2	3.3	2.6	e2.4
17	3.2	2.7	3.8	2.8	2.8	2.8	3.0	2.4	2.8	3.2	2.6	2.4
18	3.1	2.4	3.2	3.0	3.2	2.8	3.0	2.5	6.4	3.4	e2.6	2.4
19	3.0	2.2	3.5	3.2	4.0	2.9	3.0	2.5	e6.2	3.2	2.6	2.4
20	3.1	2.4	e3.5	3.1	3.2	2.9	e4.0	2.6	e3.8	2.9	2.7	2.3
21	3.1	2.4	e3.9	3.0	2.8	2.8	6.4	2.4	e4.2	e3.8	e2.7	2.2
22	3.0	2.3	3.3	3.0	2.9	2.8	4.1	2.2	e3.5	e5.0	e3.7	2.2
23	3.0	2.2	2.8	3.0	2.8	2.6	3.8	2.2	e3.2	e4.2	e3.7	2.2
24	3.1	2.4	3.4	2.9	2.7	2.6	3.4	2.3	e3.0	e6.2	3.4	2.3
25	e3.8	e4.4	4.4	2.8	2.7	2.7	3.5	2.3	e2.8	e4.0	3.0	2.3
26	5.4	e3.1	3.3	2.8	2.8	e2.8	3.2	2.2	e3.0	e3.7	2.8	2.3
27	e3.7	2.7	3.0	2.8	2.9	e3.8	3.3	2.3	e3.4	3.7	2.7	3.7
28	e8.0	2.5	3.0	e4.0	2.9	e3.2	3.7	e2.4	2.9	3.7	2.9	3.6
29	3.6	2.4	2.8	4.2	---	e4.0	3.1	e3.3	2.8	3.6	3.6	3.4
30	2.6	e2.8	2.8	3.3	---	e3.7	3.0	2.9	e2.6	3.7	3.0	2.9
31	2.4	---	2.8	3.0	---	3.1	---	2.3	---	4.5	2.6	---
Total	105.6	80.3	103.8	96.8	84.0	92.6	105.6	94.9	103.5	124.1	98.8	78.6
Mean	3.41	2.68	3.35	3.12	3.00	2.99	3.52	3.06	3.45	4.00	3.19	2.62
Max	8.0	4.4	10	6.5	4.0	4.0	6.4	5.6	7.2	9.0	5.2	4.3
Min	2.4	2.2	2.4	2.6	2.7	2.6	3.0	2.2	2.1	2.7	2.6	2.2

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2.47	2.58	2.58	2.78	2.83	2.87	2.91	2.72	2.61	2.54	2.59	2.44
Max	6.04	6.35	5.95	8.56	6.85	6.56	7.25	6.60	6.37	6.17	6.11	6.35
(WY)	(2006)	(1980)	(1980)	(1979)	(1979)	(1979)	(1980)	(1979)	(1979)	(1979)	(1979)	(1979)
Min	0.38	0.30	0.29	0.27	0.29	0.46	0.45	0.41	0.67	0.63	0.59	0.63
(WY)	(1966)	(1967)	(1967)	(1967)	(1967)	(1967)	(1966)	(1967)	(1967)	(1968)	(1988)	(1965)

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SUMMARY STATISTICS

	Calendar Year 2008	Water Year 2009	Water Years 1950 - 2009
Annual total	1,270.2	1,168.6	
Annual mean	3.47	3.20	2.66
Highest annual mean			6.32
Lowest annual mean			0.51
Highest daily mean	12 Feb 13	10 Dec 12	53 Jan 21, 1979
Lowest daily mean	1.8 Sep 18	2.1 Jun 2	0.18 Dec 7, 1983
Annual seven-day minimum	2.1 Sep 17	2.3 Sep 20	0.22 Dec 3, 1983
10 percent exceeds	4.6	4.1	4.3
50 percent exceeds	3.3	3.0	2.5
90 percent exceeds	2.4	2.4	0.98

