## 01308000 SAMPAWAMS CREEK AT BABYLON, NY

LOCATION.--Lat 40°42'15", long 73°18'52", Suffolk County, Hydrologic Unit 02030202, on left bank at upstream side of John Street Bridge in Babylon, 180 ft downstream from Long Island Railroad, and 0.6 mi upstream from mouth.

DRAINAGE AREA.--About 23 $mi^2$.

PERIOD OF RECORD.--October 1944 to current year (monthly means estimated December 1966 to November 1967).

REVISED RECORDS.--WSP 1141: Drainage area. WSP 1702: 1955 (M), 1956 (M). WDR NY 1974: 1970 (P).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 6.36 ft above NGVD of 1929. October 1944 to December 1966, water-stage recorder at site 100 ft east at datum 0.34 ft higher.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated slightly by pumping operations at railroad and occasionally by ponds above station. Indeterminate effect caused by ground-water pumpage for water-supply purposes at Smith Street substation 0.2 mi northwest of gage. Prior to November 1950, slight diurnal fluctuation caused by power operations.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 254 $ft^3/s$, June 13, 1998, gage height, 3.73 ft, from rating curve extended above 110 $ft^3/s$; minimum discharge, 1.1 $ft^3/s$, Sept. 10, 1995, result of regulation, for part or all of each day Mar. 1, July 15-23, 2002; minimum gage height, 0.13 ft, June 28, 1963, datum then in use.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 88 $ft^3/s$ and maximum (*):

| Date | Time | Discharge (ft3/s) | Gage height (ft) | Date | Time | Discharge (ft3/s) | Gage height (ft) |
|---|---|---|---|---|---|---|---|
| [illegible] | 2200 | *73 | *2.10 | | | | |

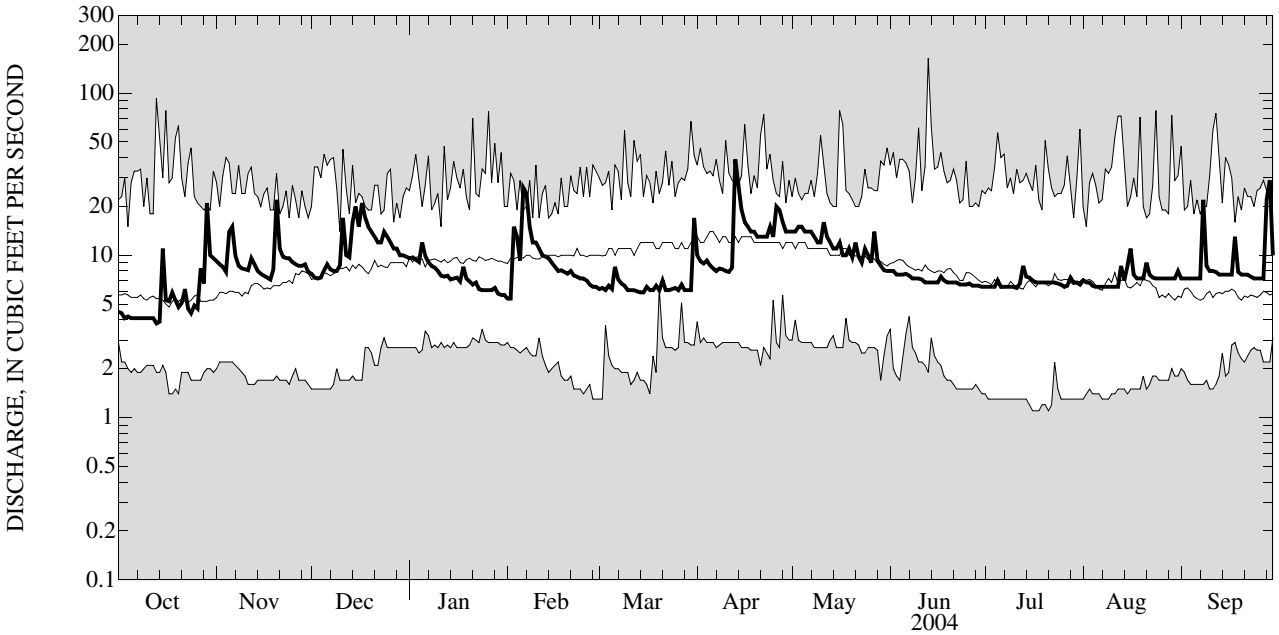
Minimum discharge, 3.8 $ft^3/s$, for part or all of each day Oct. 13,14; minimum gage height, 0.47 ft, July 11, 12.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

| DAY | OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.5 | 9.2 | 7.7 | 9.6 | 5.4 | 6.2 | 10 | 14 | 8.0 | 6.4 | 7.0 | 7.2 |
| 2 | 4.4 | 8.8 | 7.3 | 9.7 | 5.4 | 6.3 | 9.2 | 14 | 8.0 | 6.4 | 6.8 | 7.2 |
| 3 | 4.1 | 8.5 | 7.2 | 9.4 | 15 | 6.1 | 8.9 | 15 | 7.6 | 6.4 | 6.8 | 7.2 |
| 4 | 4.2 | 7.9 | 7.3 | 9.1 | 13 | 6.5 | 9.3 | 15 | 7.6 | 6.4 | 6.5 | 7.2 |
| 5 | 4.1 | 14 | 8.1 | 12 | 9.3 | 6.2 | 8.7 | 14 | 7.6 | 7.0 | 6.4 | 7.2 |
| 6 | 4.1 | 15 | 8.8 | 9.9 | 26 | 8.5 | 8.3 | 14 | 7.7 | 6.4 | 6.4 | 7.2 |
| 7 | 4.1 | 9.9 | 8.2 | 9.1 | 24 | 7.1 | 8.0 | 14 | 7.5 | 6.4 | 6.4 | 7.2 |
| 8 | 4.1 | 8.6 | 8.0 | 8.6 | 15 | 6.7 | 8.3 | 13 | 7.2 | 6.4 | 6.4 | 22 |
| 9 | 4.1 | 8.3 | 8.0 | 8.4 | 12 | 6.5 | 8.2 | 12 | 7.2 | 6.4 | 6.4 | 8.6 |
| 10 | 4.1 | 8.2 | 8.7 | 8.0 | 12 | 6.1 | 8.0 | 12 | 7.2 | 6.4 | 6.4 | 8.0 |
| 11 | 4.1 | 8.1 | 17 | 7.5 | 11 | 6.1 | 7.9 | 16 | 7.1 | 6.3 | 6.4 | 8.0 |
| 12 | 4.1 | 9.6 | 10 | 7.4 | 10 | 6.1 | 8.4 | 13 | 6.8 | 6.7 | 6.4 | 7.9 |
| 13 | 3.8 | 8.8 | 9.7 | 7.5 | 9.8 | 6.0 | 39 | 12 | 6.8 | 8.6 | 8.6 | 7.6 |
| 14 | 3.9 | 8.0 | 16 | 7.1 | 9.6 | 5.9 | 27 | 11 | 6.8 | 7.4 | 7.0 | 7.6 |
| 15 | 11 | 7.7 | 20 | 7.2 | 9.0 | 5.9 | 19 | 11 | 6.8 | 7.3 | 8.6 | 7.6 |
| 16 | 5.3 | 7.5 | 15 | 7.3 | 8.5 | 6.4 | 16 | 12 | 6.8 | 7.0 | 11 | 7.6 |
| 17 | 5.2 | 7.3 | 21 | 6.9 | 8.0 | 6.1 | 15 | 10 | 7.4 | 6.8 | 7.6 | 7.6 |
| 18 | 5.9 | 7.1 | 17 | 8.5 | 8.1 | 6.1 | 14 | 10 | 7.0 | 6.8 | 7.2 | 13 |
| 19 | 5.3 | 8.2 | 15 | 7.2 | 7.9 | 6.5 | 14 | 11 | 6.8 | 6.8 | 7.2 | 7.9 |
| 20 | 4.8 | 22 | 14 | 6.9 | 7.7 | 6.1 | 13 | 9.7 | 6.8 | 6.8 | 7.2 | 7.6 |
| 21 | 5.1 | 11 | 13 | 6.6 | 8.0 | 7.0 | 13 | 12 | 6.8 | 6.8 | 9.0 | 7.6 |
| 22 | 6.2 | 9.8 | 12 | 6.8 | 7.5 | 6.1 | 13 | 9.8 | 6.8 | 6.8 | 7.6 | 7.6 |
| 23 | 4.7 | 9.6 | 12 | 6.2 | 7.4 | 6.1 | 13 | 9.0 | 6.6 | 6.8 | 7.3 | 7.4 |
| 24 | 4.4 | 9.6 | 14 | 6.1 | 7.2 | 6.2 | 15 | 11 | 6.6 | 6.7 | 7.2 | 7.2 |
| 25 | 4.9 | 9.1 | 13 | 6.1 | 7.2 | 6.3 | 13 | 10 | 6.6 | 6.6 | 7.2 | 7.2 |
| 26 | 4.7 | 8.8 | 12 | 6.1 | 7.0 | 6.1 | 20 | 9.0 | 6.7 | 6.4 | 7.2 | 7.2 |
| 27 | 8.3 | 8.6 | 11 | 6.1 | 6.6 | 6.6 | 19 | 14 | 6.5 | 6.5 | 7.2 | 7.2 |
| 28 | 6.7 | 8.6 | 11 | 6.3 | 6.4 | 6.1 | 16 | 9.3 | 6.5 | 7.3 | 7.2 | 22 |
| 29 | 21 | 8.8 | 10 | 5.8 | 6.4 | 6.1 | 14 | 8.6 | 6.5 | 6.8 | 7.2 | 29 |
| 30 | 10 | 7.9 | 10 | 5.7 | --- | 6.1 | 14 | 8.1 | 6.4 | 6.8 | 7.2 | 10 |
| 31 | 9.6 | --- | 9.8 | 5.7 | --- | 17 | --- | 8.0 | --- | 6.6 | 8.0 | --- |
| TOTAL | 180.8 | 284.5 | 361.8 | 234.8 | 290.4 | 207.1 | 410.2 | 361.5 | 210.7 | 209.2 | 225.0 | 283.8 |
| MEAN | 5.83 | 9.48 | 11.7 | 7.57 | 10.0 | 6.68 | 13.7 | 11.7 | 7.02 | 6.75 | 7.26 | 9.46 |
| MAX | 21 | 22 | 21 | 12 | 26 | 17 | 39 | 16 | 8.0 | 8.6 | 11 | 29 |
| MIN | 3.8 | 7.1 | 7.2 | 5.7 | 5.4 | 5.9 | 7.9 | 8.0 | 6.4 | 6.3 | 6.4 | 7.2 |
| STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2004, BY WATER YEAR (WY) | | | | | | | | | | | | |
| MEAN | 6.92 | 7.84 | 9.06 | 9.85 | 10.4 | 12.0 | 13.1 | 11.3 | 9.99 | 8.25 | 7.64 | 7.09 |
| MAX | 22.5 | 19.9 | 14.8 | 19.6 | 16.6 | 20.1 | 23.7 | 20.7 | 24.3 | 21.9 | 20.5 | 16.3 |
| (WY) | (1991) | (1956) | (1997) | (1978) | (1979) | (1958) | (1983) | (1989) | (1998) | (1975) | (1989) | (1989) |
| MIN | 2.02 | 1.83 | 2.16 | 2.85 | 2.11 | 2.48 | 3.09 | 3.17 | 2.42 | 1.31 | 2.01 | 3.23 |
| (WY) | (2002) | (2002) | (2002) | (2002) | (2002) | (2002) | (2002) | (2002) | (2002) | (2002) | (1995) | (2001) |

| SUMMARY STATISTICS | FOR 2003 CALENDAR YEAR | | FOR 2004 WATER YEAR | | WATER YEARS 1945 - 2004 | |
|---|---|---|---|---|---|---|
| ANNUAL TOTAL | 3,337.2 | | 3,259.8 | | | |
| ANNUAL MEAN | 9.14 | | 8.91 | | 9.49 | |
| HIGHEST ANNUAL MEAN | | | | | 15.4 | 1984 |
| LOWEST ANNUAL MEAN | | | | | 2.55 | 2002 |
| HIGHEST DAILY MEAN | 39 | Jun 4 | 39 | Apr 13 | 164 | Jun 13, 1998 |
| LOWEST DAILY MEAN | 3.5 | Feb 16 | 3.8 | Oct 13 | 1.1 | Jul 16, 2002 |
| ANNUAL SEVEN-DAY MINIMUM | 3.7 | Feb 15 | 4.0 | Oct 8 | 1.1 | Jul 15, 2002 |
| 10 PERCENT EXCEEDS | 16 | | 14 | | 16 | |
| 50 PERCENT EXCEEDS | 7.7 | | 7.6 | | 8.3 | |
| 90 PERCENT EXCEEDS | 4.1 | | 6.1 | | 4.2 | |

01308000 SAMPAWAMS CREEK AT BABYLON, NY—Continued




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.