Water-Data Report 2011

# 04271815 LITTLE CHAZY RIVER NEAR CHAZY, NY

Richelieu Basin
Great Chazy-Saranac Subbasin

LOCATION.--Lat 44°54′08″, long 73°24′56″ referenced to North American Datum of 1927, Clinton County, NY, Hydrologic Unit 02010006, on right bank at downstream side of bridge on Stetson Road, 0.2 mi upstream from abandoned dam, 1.4 mi northeast of Chazy, and 2.2 mi upstream from mouth.

DRAINAGE AREA.--50.3 $mi^2$.

## SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1990 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 119.45 ft above NGVD of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Some regulation at low flow by dams and reservoirs upstream from station. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,750 $ft^3/s$, Nov. 10, 1996, gage height, 10.40 ft, outside gage height was 11.12 ft, from crest-stage gage; minimum discharge, 0.42 $ft^3/s$, Sept. 7, 8, 1991; minimum gage height, 1.36 ft, several days during August and September, 1991.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 650 $ft^3/s$ and (or) maximum (*):

| Date | Time | Discharge ($ft^3/s$) | Gage height (ft) |
|---|---|---|---|
| Oct 16 | 2045 | 794 | 5.62 |
| Apr 12 | 1100 | 895 | 6.01 |
| Apr 28 | 1715 | 938 | 6.17 |
| May 4 | 2245 | 874 | 5.93 |
| May 17 | 0600 | 841 | 5.80 |
| Aug 29 | 2100 | *1,840 | a*9.25 |

a Recorded; outside gage height was 9.62 ft, from crest-stage gage.

Minimum discharge, 3.1 $ft^3/s$, Aug. 8, 9, gage height, 1.58 ft.



Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 04271815, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/04271815.2011.pdf

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**DISCHARGE, CUBIC FEET PER SECOND**
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**
**DAILY MEAN VALUES**
[e, estimated]

| Day | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 206 | 91 | 104 | e37 | e16 | e20 | 156 | 273 | 131 | 15 | 6.0 | 178 |
| 2 | 300 | 88 | 228 | e46 | e16 | e21 | 177 | 206 | 102 | 14 | 5.1 | 120 |
| 3 | 195 | 82 | 211 | e53 | e17 | e22 | 227 | 202 | 88 | 13 | 4.1 | 88 |
| 4 | 120 | 69 | 159 | e50 | e17 | e23 | 247 | 629 | 79 | 12 | 3.6 | 69 |
| 5 | 87 | 116 | 120 | e43 | e16 | e26 | 289 | 809 | 69 | 11 | 3.4 | 108 |
| 6 | 74 | 154 | 99 | e37 | e16 | e29 | 303 | 630 | 64 | 11 | 3.4 | 204 |
| 7 | 141 | 131 | e82 | e35 | e17 | e46 | 262 | 397 | 55 | 10 | 3.4 | 235 |
| 8 | 157 | 118 | e66 | e32 | e17 | e80 | 246 | 272 | 47 | 10 | 3.4 | 194 |
| 9 | 124 | 226 | e53 | e30 | e16 | e107 | 243 | 208 | 43 | 9.1 | 3.9 | 156 |
| 10 | 92 | 254 | 42 | e29 | e15 | e111 | 271 | 170 | 41 | 8.4 | 6.0 | 119 |
| 11 | 75 | 195 | 42 | e28 | e15 | e104 | 491 | 142 | 37 | 8.0 | 6.7 | 91 |
| 12 | 62 | 149 | 48 | e26 | e14 | e105 | 841 | 123 | 44 | 8.3 | 6.8 | 73 |
| 13 | 51 | 123 | e68 | e25 | e15 | e117 | 630 | 106 | 52 | 8.3 | 6.5 | 59 |
| 14 | 42 | 106 | e88 | e24 | e16 | e124 | 517 | 98 | 47 | 8.3 | 6.1 | 66 |
| 15 | 130 | 97 | e79 | e23 | e16 | e118 | 368 | 222 | 40 | 8.5 | 6.0 | 82 |
| 16 | 533 | 89 | e72 | e23 | e16 | e110 | 268 | 565 | 34 | 7.9 | 5.8 | 117 |
| 17 | 639 | 96 | e67 | e23 | e17 | e92 | 245 | 791 | 29 | 7.4 | 5.6 | 92 |
| 18 | 335 | 113 | e62 | e22 | e17 | e91 | 241 | 543 | 29 | 7.3 | 5.5 | 73 |
| 19 | 206 | 101 | e57 | e22 | e18 | e132 | 205 | 320 | 27 | 7.2 | 5.3 | 58 |
| 20 | 156 | 89 | e52 | e21 | e19 | e193 | 218 | 251 | 24 | 7.3 | 5.3 | 56 |
| 21 | 129 | 78 | e50 | e21 | e20 | e230 | 302 | 333 | 21 | 7.1 | 6.4 | 59 |
| 22 | 117 | 73 | e48 | e21 | e19 | e220 | 254 | 324 | 19 | 6.8 | 7.6 | 51 |
| 23 | 100 | 78 | e48 | e20 | e19 | e197 | 197 | 229 | 20 | 6.4 | 7.5 | 48 |
| 24 | 87 | 80 | e46 | e20 | e19 | e178 | 169 | 173 | 23 | 6.0 | 11 | 45 |
| 25 | 86 | 68 | e43 | e19 | e19 | e158 | 147 | 140 | 23 | 5.5 | 12 | 44 |
| 26 | 88 | 69 | e40 | e19 | e18 | 142 | 175 | 121 | 28 | 5.3 | 10 | 39 |
| 27 | 82 | 68 | e40 | e19 | e19 | 125 | 523 | 215 | 27 | 5.4 | 8.5 | 33 |
| 28 | 76 | 59 | 42 | e19 | e20 | 110 | 874 | 307 | 22 | 6.1 | 73 | 29 |
| 29 | 69 | 59 | e43 | e18 | --- | 107 | 746 | 309 | 19 | 6.4 | 1,070 | 32 |
| 30 | 69 | 58 | e42 | e18 | --- | 110 | 420 | 237 | 16 | 5.7 | 1,060 | 110 |
| 31 | 84 | --- | e38 | e17 | --- | 136 | --- | 171 | --- | 5.9 | 310 | --- |
| Total | 4,712 | 3,177 | 2,279 | 840 | 479 | 3,384 | 10,252 | 9,516 | 1,300 | 258.6 | 2,677.9 | 2,728 |
| Mean | 152 | 106 | 73.5 | 27.1 | 17.1 | 109 | 342 | 307 | 43.3 | 8.34 | 86.4 | 90.9 |
| Max | 639 | 254 | 228 | 53 | 20 | 230 | 874 | 809 | 131 | 15 | 1,070 | 235 |
| Min | 42 | 58 | 38 | 17 | 14 | 20 | 147 | 98 | 16 | 5.3 | 3.4 | 29 |
| Cfsm | 3.02 | 2.11 | 1.46 | 0.54 | 0.34 | 2.17 | 6.79 | 6.10 | 0.86 | 0.17 | 1.72 | 1.81 |
| In. | 3.48 | 2.35 | 1.69 | 0.62 | 0.35 | 2.50 | 7.58 | 7.04 | 0.96 | 0.19 | 1.98 | 2.02 |

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2011, BY WATER YEAR (WY)**

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean | 50.2 | 68.9 | 56.5 | 55.3 | 35.0 | 102 | 205 | 87.9 | 59.5 | 28.3 | 21.2 | 16.4 |
| Max | 201 | 214 | 122 | 156 | 84.3 | 274 | 420 | 307 | 234 | 163 | 86.4 | 90.9 |
| (WY) | (2006) | (1997) | (1997) | (2008) | (2006) | (2000) | (1993) | (2011) | (2002) | (1998) | (2011) | (2011) |
| Min | 3.88 | 7.19 | 10.5 | 10.9 | 7.45 | 20.8 | 43.4 | 15.7 | 4.93 | 2.81 | 1.15 | 1.42 |
| (WY) | (2002) | (2002) | (1992) | (2002) | (1992) | (1993) | (1995) | (1999) | (1999) | (1995) | (1991) | (1991) |

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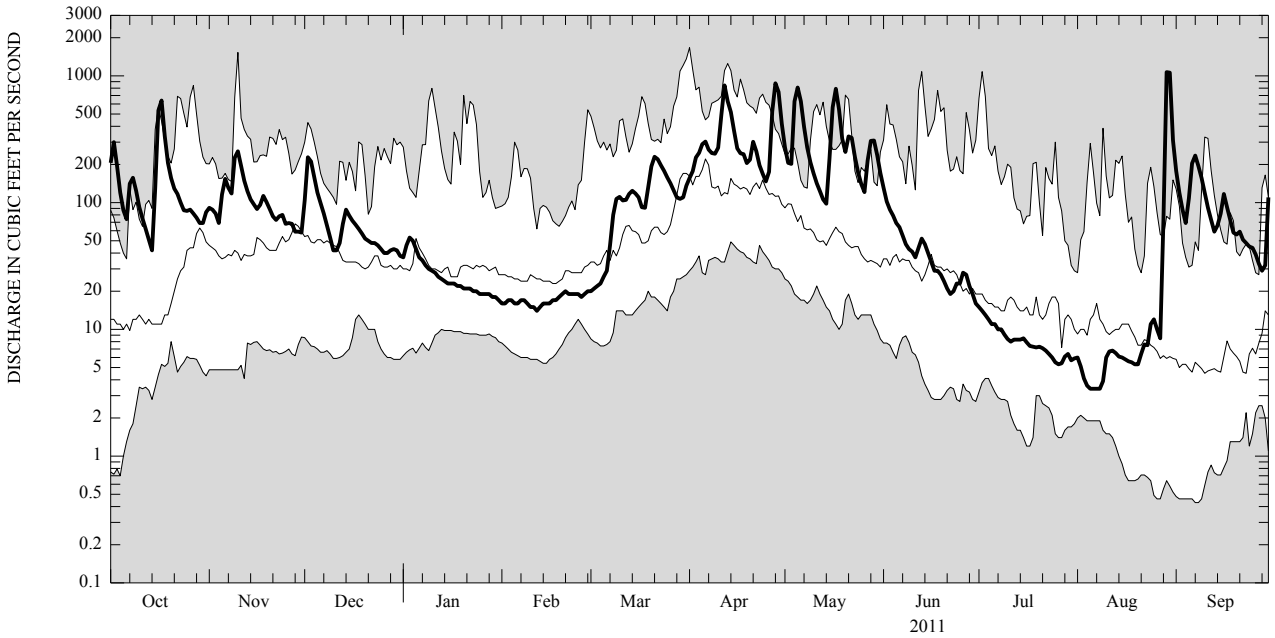
**SUMMARY STATISTICS**

| | Calendar Year 2010 | | Water Year 2011 | | Water Years 1990 - 2011 | |
|---|---|---|---|---|---|---|
| **Annual total** | 24,821.5 | | 41,603.5 | | | |
| **Annual mean** | 68.0 | | 114 | | 65.1 | |
| **Highest annual mean** | | | | | 114 | 2011 |
| **Lowest annual mean** | | | | | 28.1 | 1992 |
| **Highest daily mean** | 639 | Oct 17 | 1,070 | Aug 29 | 1,670 | Apr 1, 1998 |
| **Lowest daily mean** | 4.2 | Aug 1 | 3.4 | Aug 5 | 0.43 | Sep 7, 1991 |
| **Annual seven-day minimum** | 5.4 | Sep 10 | 3.6 | Aug 3 | 0.45 | Sep 2, 1991 |
| **Annual runoff (cfsm)** | 1.35 | | 2.27 | | 1.30 | |
| **Annual runoff (inches)** | 18.36 | | 30.77 | | 17.60 | |
| **10 percent exceeds** | 172 | | 257 | | 159 | |
| **50 percent exceeds** | 36 | | 62 | | 30 | |
| **90 percent exceeds** | 8.9 | | 7.5 | | 5.5 | |




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.