

Water-Data Report 2011

04295000 RICHELIEU RIVER (LAKE CHAMPLAIN) AT ROUSES POINT, NY

Richelieu Basin
Great Chazy-Saranac Subbasin

LOCATION.--Lat 44°59'46", long 73°21'37" referenced to North American Datum of 1927, Clinton County, NY, Hydrologic Unit 02010006, on left bank at outlet of Lake Champlain in Rouses Point, and 1.0 mi south of Fort Montgomery ruins.

DRAINAGE AREA.--8,277 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--March 1871 to current year (daily gage heights prior to October 1970, elevations thereafter: those for 1871-1907 published in WSP 894). Gage heights prior to October 1, 1925, published as "Richelieu River at Fort Montgomery, Rouses Point". Maximum and minimum monthly gage heights for October 1863 to December 1870 at St. Johns, Quebec (published in WSP 97) are not considered part of the current period of record since that location is about 22 mi north of Rouses Point. Discharge records for January 1875 to September 1916 at "Chambly, Quebec," published in WSP 65, 82, 97, 129, 170, 206, 424, and 1307 have been found to be unreliable and should not be used. Daily discharge record for "Richelieu River at Fryers Rapids, Quebec," published in Water Survey of Canada annual reports.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. March 1871 to May 1923, nonrecording gage located in Fort Montgomery and May 1923 to October 1938, nonrecording gage at present site. Prior to October 1970, at datum 93.00 ft higher.

REMARKS.--Area of lake surface about 490 mi². Total volume below 92.5 ft elevation, reported by Lake Champlain Studies Center, 902.2 bil ft³. Satellite and telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 103.20 ft, May 6, 2011; minimum elevation observed, 92.17 ft, Oct. 23, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum elevation known since at least 1827, 102.1 ft, May 4, 1869, from marks at railroad bridge near present gage, according to data published on p. 428 of the Report of the Board of Engineers on Deep Waterways, 1900: U.S. 56th Cong., 2d sess. H. Doc. 149.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 103.20 ft, May 6; minimum elevation, 94.47 ft, Aug. 28, affected by seiche.

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LAKE OR RESERVOIR WATER SURFACE ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	95.32	97.63	97.43	97.22	96.11	95.77	98.51	102.73	102.67	98.63	96.10	97.60
2	95.88	97.62	97.47	97.17	96.11	95.75	98.52	102.74	102.38	98.56	96.00	97.72
3	96.21	97.65	97.60	97.26	96.15	95.73	98.48	102.57	102.22	98.52	95.91	97.71
4	96.35	97.60	97.64	97.31	96.13	95.75	98.57	102.76	102.09	98.41	95.82	97.71
5	96.41	97.61	97.67	97.28	96.09	95.74	98.56	102.98	101.93	98.31	95.80	97.72
6	96.48	97.66	97.65	97.27	96.10	95.74	98.74	103.13	101.74	98.24	95.86	97.91
7	96.58	97.68	97.62	97.22	96.08	96.04	98.84	103.07	101.56	98.09	95.77	98.18
8	96.67	97.58	97.53	97.12	96.03	96.29	98.87	102.95	101.40	98.04	95.64	98.34
9	96.67	97.76	97.47	97.07	96.06	96.43	98.89	102.80	101.22	97.87	95.65	98.44
10	96.77	97.80	97.62	97.03	95.99	96.58	98.95	102.64	101.03	97.86	95.74	98.43
11	96.73	97.91	97.46	96.99	95.97	96.66	99.25	102.52	100.98	97.78	95.66	98.48
12	96.71	97.94	97.33	96.90	95.94	96.86	99.61	102.38	100.89	97.66	95.57	98.46
13	96.72	97.91	97.42	96.93	95.93	97.07	100.11	102.28	100.63	97.50	95.59	98.45
14	96.72	97.95	97.75	96.92	95.84	97.24	100.36	102.05	100.48	97.41	95.54	98.30
15	96.43	97.85	97.82	96.91	95.80	97.39	100.48	101.91	100.42	97.33	95.48	98.27
16	97.08	97.79	97.91	96.78	95.82	97.49	100.68	102.18	100.28	97.29	95.47	98.24
17	97.54	97.82	97.91	96.76	95.77	97.57	100.65	102.46	100.12	97.22	95.51	98.25
18	97.70	97.73	97.93	96.78	95.78	97.76	100.67	102.59	99.98	97.12	95.60	98.19
19	97.82	97.75	97.91	96.64	95.73	98.20	100.67	102.58	99.83	97.00	95.56	98.19
20	97.85	97.73	97.90	96.63	95.76	98.56	100.83	102.54	99.71	96.97	95.53	98.15
21	97.79	97.68	97.87	96.58	95.78	98.78	100.84	102.53	99.56	96.95	95.49	98.03
22	97.69	97.91	97.75	96.55	95.81	98.84	100.94	102.57	99.43	96.77	95.51	97.96
23	97.69	97.67	97.59	96.48	95.81	98.89	101.25	102.66	99.39	96.68	95.51	97.86
24	97.69	97.45	97.58	---	95.81	98.91	100.85	102.29	99.33	96.52	95.69	97.83
25	97.73	97.52	---	---	95.76	98.88	100.87	102.12	99.20	96.59	95.63	97.79
26	97.70	97.58	---	---	95.78	98.85	100.92	102.03	99.11	96.51	95.36	---
27	97.71	97.43	---	96.32	95.78	98.79	101.44	102.07	99.04	96.35	95.33	---
28	97.76	97.38	---	96.29	95.80	98.73	102.04	102.42	99.01	96.31	95.16	---
29	97.69	97.33	---	96.23	---	98.69	102.53	102.62	98.87	96.26	96.51	---
30	97.70	97.47	97.29	96.19	---	98.63	102.70	102.70	98.73	96.17	97.27	97.71
31	97.61	---	97.27	96.15	---	98.57	---	102.72	---	96.14	97.49	---
Mean	97.08	97.68	---	---	95.91	97.46	100.15	102.54	100.44	97.32	95.77	---
Max	97.85	97.95	---	---	96.15	98.91	102.70	103.13	102.67	98.63	97.49	---
Min	95.32	97.33	---	---	95.73	95.73	98.48	101.91	98.73	96.14	95.16	---

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