Historical flood peaks and peaks during the flood of Apr 27 - May 2, 2011 at selected U.S. Geological Survey streamgages in New York.

Summary prepared in cooperation with New York State Dept. of Transportation

Prepared By: T.P. Suro May 18, 2011

[mi^2, square miles; ft, feet; ft^3/s, cubic feet per second; $ft^3/s/mi^2$, cubic feet per second per square mile.]

[All data is provisional and subject to revision]

[Statistical analyses of annual peaks computed using data that includes the April 27 - May 2, 2011 peak.]

				Previous maximum discharge of record			Flood of April 27 - May 2, 2011					
USGS station number	Station name	Drainage area (mi^2)	Period of record	Date of peak	Peak stage (ft)	Peak discharge (ft^3/s)	Date of peak	Time of peak (hr)	Peak stage (ft)	Peak discharge (ft^3/s)	Peak discharge ($ft^3/s/mi^2$)	*Recurrence interval (years)
	HUDSON RIVER BASIN											
01311992	ARBUTUS POND OUTLET NEAR NEWCOMB NY	1.22	1991-2011	1/9/1998	2.37	40	4/29/2011	---	2.60	44	36.1	15
01312000	HUDSON RIVER NEAR NEWCOMB NY	192.00	1925-2011	1/9/1998	12.84	11,500	4/29/2011	0115	12.59	11,100	57.8	>100 & < 500
01314500	INDIAN LAKE NEAR INDIAN LAKE NY	131.00	1900-2011	3/28/1913	[a] 1656.71	---	4/29/2011	0800	1655.09	---	---	---
01315000	INDIAN RIVER NEAR INDIAN LAKE NY	132.00	1912-14,1916-2011	3/28/1913	7.8	3,460	04/29/2011	1115	7.81	e 3600	27.3	>100 & < 500
01315081	INDIAN RIVER BELOW LAKE ABANAKEE NEAR INDIAN LAKE NY	195.00	2004-2011	6/29/2006	8.07	---	4/29/2011	---	10.73	---	---	---
01315500	HUDSON RIVER AT NORTH CREEK NY	792.00	1907-2011	12/31/1948	12.14	28,900	4/28/2011	2130	13.65	36,200	45.7	>100 & < 500
01317000	SCHROON RIVER AT RIVERBANK NY	527.00	1908-25,1987-2011	3/21/1936	12.18	12,100	4/29/2011	1400	10.85	8,970	17.0	25
01318500	HUDSON RIVER AT HADLEY NY	1,664.00	1913,21-2011	3/27/1913	unknown	[b] 49,000	4/29/2011	0545	21.32	43,100	25.9	80
01321000	SACANDAGA RIVER NEAR HOPE NY	491.00	1911-2011	3/27/1913	[c] 11.0	32,000	4/28/2011	1530	7.83	15,500	31.6	<5
01323500	GREAT SACANDAGA LAKE AT CONKLINGVILLE NY	1,044.00	1930-2011	04/21/2008	[a] 773.58	---	5/1/2011	1515	774.47	---	---	---
01325000	SACANDAGA RIVER AT STEWARTS BRIDGE NR HADLEY NY	1,055.00	c1930-2011	[d] 5/3/2007	9.78	14,200	5/2/2011	1015	10.40	16,500	15.6	70
01327750	HUDSON RIVER AT FORT EDWARD NY	2,817.00	1976-2011	5/3/1983	28.34	35,200	4/29/2011	1715	31.34	49,600	17.6	100
01335754	HUDSON RIVER ABOVE LOCK 1 NEAR WATERFORD NY	4,605.00	1976-2011	1/1/1949	36.38	118,000	4/29/2011	2245	30.87	e 57,000	12.4	7
01336000	MOHAWK RIVER BELOW DELTA DAM NEAR ROME NY	152.00	1927-2011	10/02/45	11.18	8,560	4/28/2011	1445	8.78	5,230	34.4	10
01343060	WEST CANADA CREEK NEAR WILMURT NY	258.00	2001-2011	6/28/2006	13.60	23,200	4/28/2011	---	14.11	25,500	98.8	>100 & < 500
01343900	HINKLEY RESERVOIR AT HINKLEY NY	372.00	1914-2011	10/2/1945	[a] 1230.2	---	4/28/2011		1230.73	---	---	---
01346000	WEST CANADA CREEK AT KAST BRIDGE NY	560.00	1920-2011	6/29/2006	8.29	21,800	4/29/2011	0400	8.68	23,400	41.8	>100 & < 500
01347000	MOHAWK RIVER NEAR LITTLE FALLS NY	1,342.00	1927-2011	6/28/2006	19.72	35,000	4/29/2011	0800	18.11	29,600	22.1	25
01348000	EAST CANADA CREEK AT EAST CREEK NY	289.00	1945-96,98,2000,2003-11	6/28/2006	10.99	31,500	4/29/2011		6.34	7,690	26.6	<2
01357500	MOHAWK RIVER AT COHOES NY	3,450.00	1917-2011	3/6/1964	23.15	143,000	4/29/2011	0815	18.20	57,600	16.7	<2
01358000	HUDSON RIVER AT GREEN ISLAND NY	8,090.00	1946-2011	3/19/1936	29.48	215,000	4/29/2011	0845	[g] 23.02	106,000	13.1	3
	STREAMS TRIBUTARY TO LAKE ONTARIO											
04250200	SALMON RIVER AT PINEVILLE NY	238.00	1992-2011	1/8/1998	12.62	11,700	4/29/2011	0000	9.53	[h] 4,630	44.1	---
04252500	BLACK RIVER NEAR BOONVILLE NY	304.00	1911-2011	12/30/1984	11.41	12,800	4/29/2011	0215	10.66	[h] 10,500	34.5	20
04254500	MOOSE RIVER AT MCKEIVER NY	363.00	1869,1901-22,82,85,87-2011	6/3/1947	17.45	18,700	4/28/2011	2130	15.26	15,200	41.9	50
04256500	STILLWATER RESERVOIR NEAR BEAVER RIVER NY	171.00	1925-2011	5/20/1969	[a] 1680.08	---	4/29/2011	---	1680.13	---	----	---
04258000	BEAVER RIVER AT CROGHAN NY	291.00	1930-2011	5/21/1969	6.98	5,100	4/29/2011	1030	6.70	4,640	15.9	50
04260500	BLACK RIVER AT WATERTOWN NY	1,864.00	1920-2011	1/10/1998	16.02	55,500	4/30/2011	0815	12.70	36600	19.6	25
04260990	CRANBERRY LAKE AT CRANBERRY LAKE, NY	140.00	1923-2011	5/13/1971	[a] 1488.25	---	4/30/2011	---	1487.95	---	---	---
	ST. LAWRENCE RIVER BASIN											
04262000	OSWEGATCHIE RIVER AT OSWEGATCHIE NY	259.00	1924-68, 1987-2011	4/12/1947	7.3	4,090	4/28/2011	1015	5.89	2780	10.7	4
04262500	W BR OSWEGATCHIE R NR HARRISVILLE NY	258.00	1916-2011	1/9/1998	10.64	8,700	4/29/2011	0930	7.08	3,960	15.3	2
04263000	OSWEGATCHIE R NR HEUVELTON NY	986.00	1916-2011	4/6/1960	10.36	19,600	5/1/2011	0715	6.46	8,560	8.7	<2
04265000	GRASS RIVER AT PYRITES NY	333.00	1925-77,85, 2003-2011	11/18/1927	13.00	8,300	4/29/2011	---	9.50	4,600	13.8	2
04265432	GRASS R AT CHASE MILLS NY	598.00	2003-2011	9/18/2005	7.53	10,300	4/29/2011	1700	6.83	6,930	11.6	---

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				Previous maximum discharge of record			Flood of April 27 - May 2, 2011					
USGS station number	Station name	Drainage area (mi^2)	Period of record	Date of peak	Peak stage (ft)	Peak discharge (ft^3/s)	Date of peak	Time of peak (hr)	Peak stage (ft)	Peak discharge (ft^3/s)	Peak discharge ($ft^3/s/mi^2$)	*Recurrence interval (years)
04266500	RAQUETTE R AT PIERCEFIELD NY	721.00	1908-2011	4/27/1993	12.04	8,630	5/1/2011	0915	13.40	11,400	15.8	>500
04267500	RAQUETTE R AT SOUTH COLTON NY	937.00	1953-2002, 2011	5/11/1971	9.80	9,720	4/29/2011	0445	11.27	12,800	13.7	>100 & <500
04268000	RAQUETTE R AT RAYMONDVILLE NY	1,125.00	1943-2011	4/5/1974	8.40	13,000	5/4/2011	2015	8.72	15,500	13.8	>100 & <500
04268800	W BR ST REGIS R NR PARISHVILLE NY	171.00	1958-2011	12/29/1984	7.37	5,960	4/28/2011	2015	5.21	3,200	18.7	4
04269000	ST REGIS R AT BRASHER CENTER NY	612.00	1910-2011	4/6/1937	12.82	16,800	4/12/2011	1630	10.50	9,040	14.8	4
04270000	SALMON RIVER AT CHASM FALLS NY	132.00	1925-82, 1986-2011	4/1/1998	5.43	3540	4/12/2011	---	5.01	2950.0	22.3	20
04271500	GREAT CHAZY R AT PERRY MILLS NY	243.00	1928-68,85,1987-2011	11/9/1996	12.24	9,700	4/27/2011	1400	7.29	3,260	13.4	---
04271815	LITTLE CHAZY R NR CHAZY NY	50.30	1990-2011	11/10/1996	10.40	2,750	4/28/2011	1715	6.17	955	19.0	4
04273500	SARANAC R AT PLATTSBURGH NY	608.00	1903-1930,1943-2011	11/9/1996	12.11	14,400	4/28/2011	1430	9.53	8,740	14.4	10
04273700	SALMON R AT SOUTH PLATTSBURGH NY	63.30	1959-86,1990-2011	11/9/1996	7.56	4,200	4/28/2011	1215	5.08	1,620	25.6	6
04273800	LITTLE AUSABLE R NR VALCOUR NY	67.80	1991-2011	6/27/1998	13.78	7,210	4/28/2011	1515	3.32	1,110	16.4	---
04274000	W BR AUSABLE R NR LAKE PLACID NY	116.00	1920-68,1983-2011	9/22/1938	12.20	10,800	4/28/2011	----	11.42	9,230	79.6	70
04275000	E BR AUSABLE R AT AU SABLE FORKS NY	198.00	1925-2011	11/9/1996	15.22	23,900	4/28/2011	1400	11.48	14,400	72.7	30
04275500	AUSABLE R NR AU SABLE FORKS NY	446.00	1910-68,1990-2011	11/9/1996	13.83	37,400	4/28/2011	1545	11.60	25,100	56.3	50
04276500	BOUQUET RIVER AT WILLSBORO NY	270.00	1923-68,80,85,1987-2011	11/9/1996	10.93	12,300	4/27/2011	1415	9.22	8,500	31.5	10
04280450	METTAWEE R NR MIDDLE GRANVILLE NY	167.00	1990-2011	12/17/2000	13.47	13,100	4/28/2011	2000	6.63	2,070	12.4	<2
04279085	LAKE CHAMPLAIN NORTH OF WHAITEHALL NY	725.00	1998-2011	4/28/2001	[a] 101.80	---	5/9/2011	1400	103.57	---	---	---
04294500	LAKE CHAMPLAIN AT BURLINGTON, VT	--	1907-2011	4/27/1993	[a] 101.86	---	5/6/2011	1445	103.27	---	---	---
04295000	RICHELIEU R (LAKE CHAMPLAIN) AT ROUSES POINT NY	8,277.00	1871-2011	4/25/1993	[a J] 101.88	---	5/6/2011	0715	103.20	---	---	---

* Sites in pink indicate significant regulation. Recurrence intervals at these sites were calculated from statistical analyses of annual peak discharges during the regulated period.
No adjustments were made for the amount of available storage in the reservoirs before or during floods, nor for changes in regulation procedures during the period of regulation.
Other studies, such as flood-insurance studies, and other procedures, can be investigated for alternate methods of determining discharge recurrence intervals at these sites.

Stations listed in green are reservoir/lake elevation sites (discharge not computed)

Peaks listed in orange occurred outside the dates of this table but were higher than those occurring from April 27 - May 2, 2011 .

a Elevation in feet above NGVD 1929.
b About
c From floodmarks
c Since current degree of regulation
d Peak discharge also occurred on Feb. 7, 2006
e Estimate
g Peak stage occurred at 2000 hrs.
h Higher peak occurred earlier in 2011 water year.
J Historic peak outside period-of-record, 102.1 ft, May 4, 1869, from marks ar railroad bridge near present gage. Data from Report of the Board of Engineers on Deep Waterrways, 1900: U.S. 56th Cong.,2d sess. H Doc. 149.