

REPORT OF CHIEF ENGINEER
HUDSON RIVER - BLACK RIVER REGULATING DISTRICT
BOARD MEETING
APRIL 9, 2019 – WATERTOWN, NEW YORK

HUDSON RIVER AREA - MARCH SUMMARY

Reservoir Operation

Great Sacandaga Lake

The March average daily release from the Sacandaga Reservoir (Great Sacandaga Lake) was approximately 4,060 cubic feet per second (cfs). The Upper Hudson / Sacandaga River Offer of Settlement target elevation for March 31 is 749.00 feet (ft). The release of water from Great Sacandaga Lake was consistent with the Upper Hudson/Sacandaga River Offer of Settlement.

Table 1.0 - *Great Sacandaga Lake Elevation and Release*

Date	Daily Average Elevation (ft,NGVD) ⁽⁴⁾	Deviation (ft) (1)		Release (cfs)	
		From Average	From Offer of Settlement	Conklingville Dam	E.J. West (2) Hydro Plant
Feb. 28	760.98	+13.45	+11.56	0	4,020
Mar. 31	756.2 (e)	+4.8 (e)	+7.2 (e)	0	4,000 (e)

Notes: (1) Difference between current reservoir elevation and historic average or Level 3
(2) Release established by Regulating District
(3) "(e)" represents estimated value
(4) "NGVD" is National Geodetic Vertical Datum

Indian Lake Reservoir

The March average daily release from Indian Lake was approximately 430 cfs.

Table 2.0 - *Indian Lake Reservoir Elevation and Release*

Date	Daily Average Elevation (1) (ft, NGVD)	Deviation (ft)		Release (cfs)
		From Average	From Target	
Feb. 28	1,640.02	-0.38	+1.79	447
Mar. 31	1,637.7 (e)	-4.3 (e)	+0.8 (e)	412 (e)

Notes: (1) Local datum = NGVD elevation + 1617.91ft; spillway crest = 1651.29ft (33.38ft)
(2) "(e)" represents estimated value

HUDSON RIVER AREA - MARCH SUMMARY- continued

River Flow

Hudson River flow, downstream of the confluence with the Sacandaga River, was approximately 7,490 cfs on March 26 and approximately 1,110 cfs above the historic average flow.

Table 3.0 - *Sacandaga, Indian, and Hudson River Flow*

River	Monthly Average Flow (cfs)	Historic Average Flow (2) (cfs)
Sacandaga at Hope	1,040 (e)	1,640
Sacandaga at Stewarts Bridge	4,060 (e)	1,990
Indian at Indian Lake Dam	427 (e)	280
Hudson at Hadley (1)	2,910 (e)	3,680

Notes: (1) Above confluence with Sacandaga River
 (2) Based on USGS records
 (3) "(e)" represents estimated value
 (4) Gauge unavailable due to ice

Precipitation

Monthly total precipitation measured 49%, 27%, and 32% historic average at Indian Lake, Mayfield, and Conklingville, respectively, as of March 26

Table 4.0 - *Hudson River Basin Precipitation - as of March 26*

Station	Monthly Total (inch)	Historic Average (inch)
Indian Lake	1.54	3.15
Mayfield	0.97	3.63
Conklingville	1.18	3.66

HUDSON RIVER AREA - MARCH SUMMARY- continued

Operation Overview

Precipitation during the month of March was below normal across the Great Sacandaga Lake watershed and the Indian Lake watershed. The monthly inflow to Great Sacandaga Lake and Indian Lake reservoir was approximately 66% and 64% of historic average, respectively. Monthly release of water from Great Sacandaga Lake and Indian Lake measured 198% and 148% of historic average, respectively.

Great Sacandaga Lake Operation

Great Sacandaga Lake operation summary report for the period March 1, 2019 through March 26, 2019 is attached. This report includes projected and forecast values for dates after March 26, 2019.

Hudson River Area Staff Activities

Staff completed routine maintenance and operations activities during the month.

A summary of District staff activities and work projects at the dam facilities is attached in the Administrator's Report.

BLACK RIVER AREA – MARCH SUMMARY

Reservoir Operations

Stillwater Reservoir

The March average daily release from Stillwater Reservoir was approximately 600 cfs. The maximum discharge for the month was 600 cfs.

Table 1.0 - *Stillwater Reservoir Elevation and Release*

Date	Daily Average Elevation (ft, NGVD)	Deviation from Average Elevation (ft) (1)	Release (cfs)
Feb. 28	1,668.57	+2.68	600
Mar. 31	1,663.8 (e)	-4.0 (e)	600 (e)

Notes: (1) Difference between current reservoir elevation and historic average
(2) "(e)" represents estimated value

Sixth Lake Reservoir

The March average daily release from Sixth Lake Reservoir was approximately 30 cfs.

Table 2.0 - *Sixth Lake Reservoir Elevation and Release*

Date	Elevation (1) (ft, NGVD)	Deviation from Average Elevation (2) (ft)	Release (cfs)
Feb. 28	1,779.39	-2.17	57
Mar. 31	1,780.0 (e)	-1.8 (e)	25

Notes: (1) Local datum = USGS datum
(2) Difference between current reservoir elevation and historic average.
(3) "(e)" represents estimated value

Old Forge Reservoir

The March average daily release from Old Forge Reservoir was approximately 60 cfs.

Table 3.0 - *Old Forge Reservoir Elevation and Release*

Date	Elevation (1) (ft, NGVD)	Deviation from Average Elevation (2) (ft)	Release (cfs)
Feb. 28	1,703.33	-0.19	139
Mar. 31	1,703.7 (e)	-0.2 (e)	51 (e)

Notes: (1) Local Datum = USGS elevation
(2) Difference between current reservoir elevation and historic average.
(3) "(e)" represents estimated value

BLACK RIVER AREA - MARCH SUMMARY - continued

River Flow

The average daily Black River flow, as measured at the Watertown gauge, was approximately 6,640 cfs on March 25.

Table 4.0 - *Moose, Independence, Beaver, and Black River Flow*

River	Monthly Average Flow (cfs)	Historic Average Flow (1) (cfs)
Moose at McKeever	1,593 (e)	1,107
Beaver at Croghan	920 (e)	722
Black at Watertown	5,420 (e)	6,160

Notes: ⁽¹⁾ Based on USGS records
⁽²⁾ "(e)" represents estimated value
⁽³⁾ Stage and flow affected by ice in river

Precipitation

Monthly total precipitation measured 55%, 63%, 53% of historic average at Stillwater, Old Forge, and Sixth Lake, respectively, as of March 26.

Table 5.0 - *Black River Basin Precipitation - as of March 26*

Station	Monthly Total (inch)	Historic Average (inch)
Stillwater	1.80	3.30
Old Forge	2.30	3.63
Sixth Lake	1.77	3.35

BLACK RIVER AREA - MARCH SUMMARY - continued

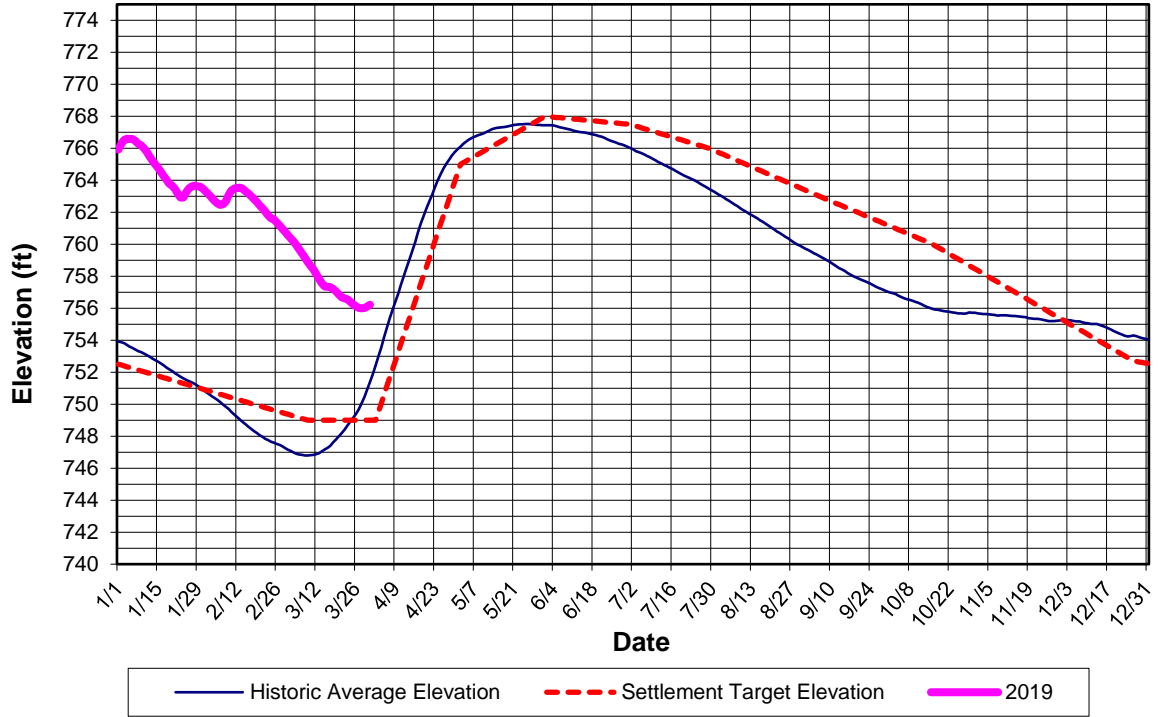
Operation Overview

Precipitation in the month of March was below average at Stillwater, Old Forge and at Sixth Lake. The monthly inflow to Stillwater Reservoir was approximately 62% of historic average. The inflow to Sixth Lake and Old Forge Reservoir totaled 0.09 and 0.21 billion cubic feet, respectively, in March. Release of water from Stillwater Reservoir averaged 143% of historic discharge.

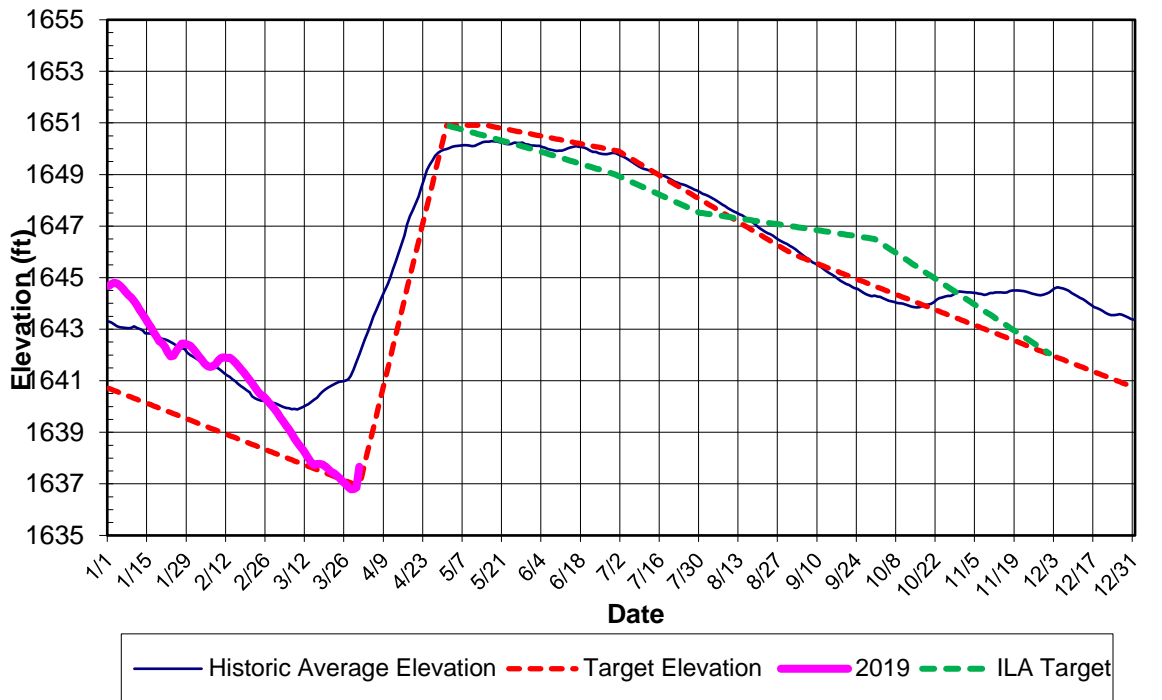
Black River Area Staff Activities

A summary of District staff activities and work projects at the dam facilities is attached in the Administrator's Report.

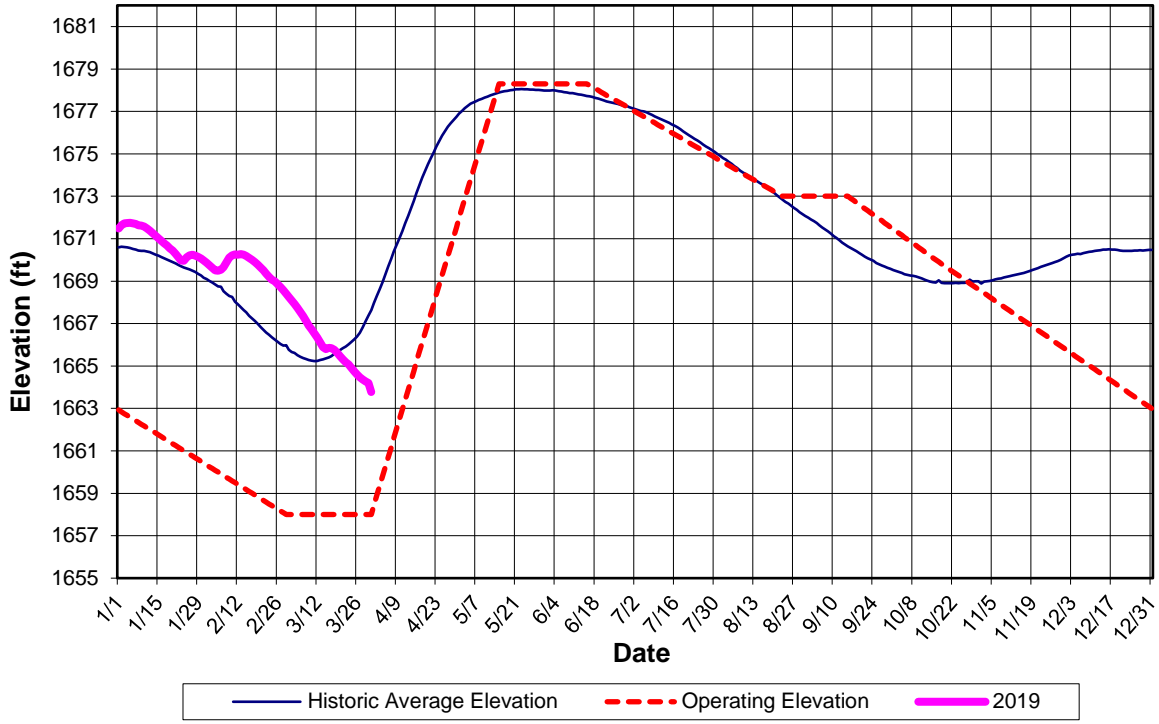
Great Sacandaga Lake 2019 Reservoir Elevation



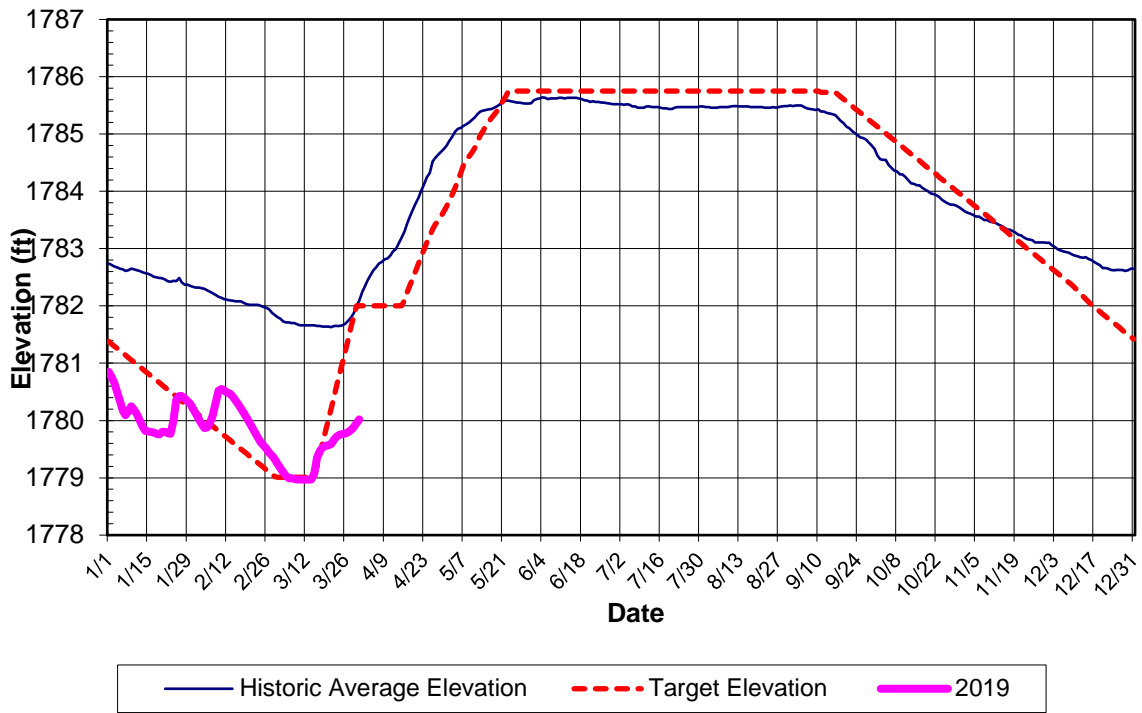
Indian Lake 2019 Reservoir Elevation



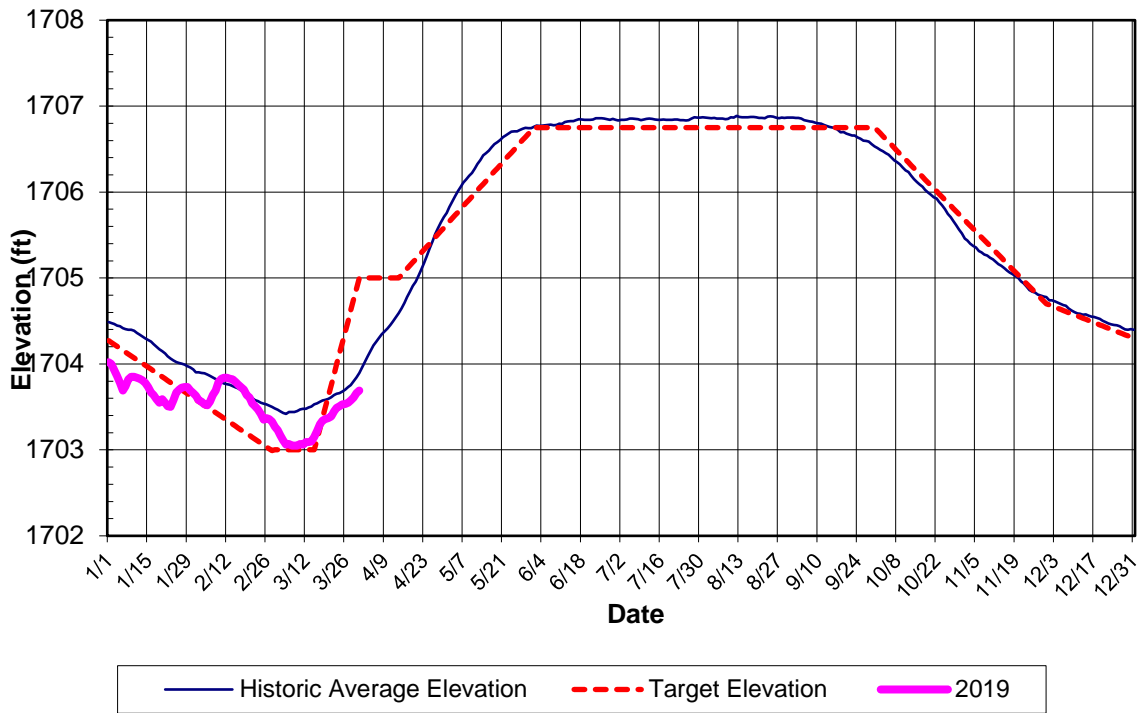
Stillwater Reservoir 2019 Reservoir Elevation



Sixth Lake 2019 Reservoir Elevation



Old Forge 2019 Reservoir Elevation



SACANDAGA RESERVOIR ELEVATION CALCULATOR

Datum:

1929 NGVD

Settlement Parameters		
Date	3/27/2019	
Target Elevation	756.03	
Actual "Level"	3.36	
"Level 2.5 threshold"	0.00	
"Level 1.2 threshold"	741.30	
Hudson River Target	Elevation	Level
Maximum Flow (cfs)	8000	8220
Minimum Flow (cfs)	n/a	2720
Min. Rec/Rafting Hours (hrs)	#VALUE!	

Rafting Release at Abanakee
North Crk T, Th, Sa, Su.
Hadley M, W, F, Su.

BROOKFIELD HYDRO CONTROL CENTER: 877-816-7466

Whitewater (hrs)	Daily Avg (cfs)
3	806
4	958
5	1110
6	1263
7	1415
8	1567

* 4000 cfs/hr + base flow 350 cfs

Daily Conditions	
Date	3/27/2019
Day of Year	4469
Starting Elevation (ft)	756.05
Average Elevation	756.03
Flow Below Hadley (cfs)	7600
Todays Release	4000
Tomorrows Release	4000

Justin St. John 518-743-2004 (w)
315-396-8194 (cell)
Jonathan Norris 518-743-2094

Dan McCarty 744-2067 Eric Johnson
Piezometers 518-696-5807 863-8791

ACTUAL High Value
SCHEDULED Low Value
ESTIMATED Instant. (min + rafting)
TO BE CHANGED

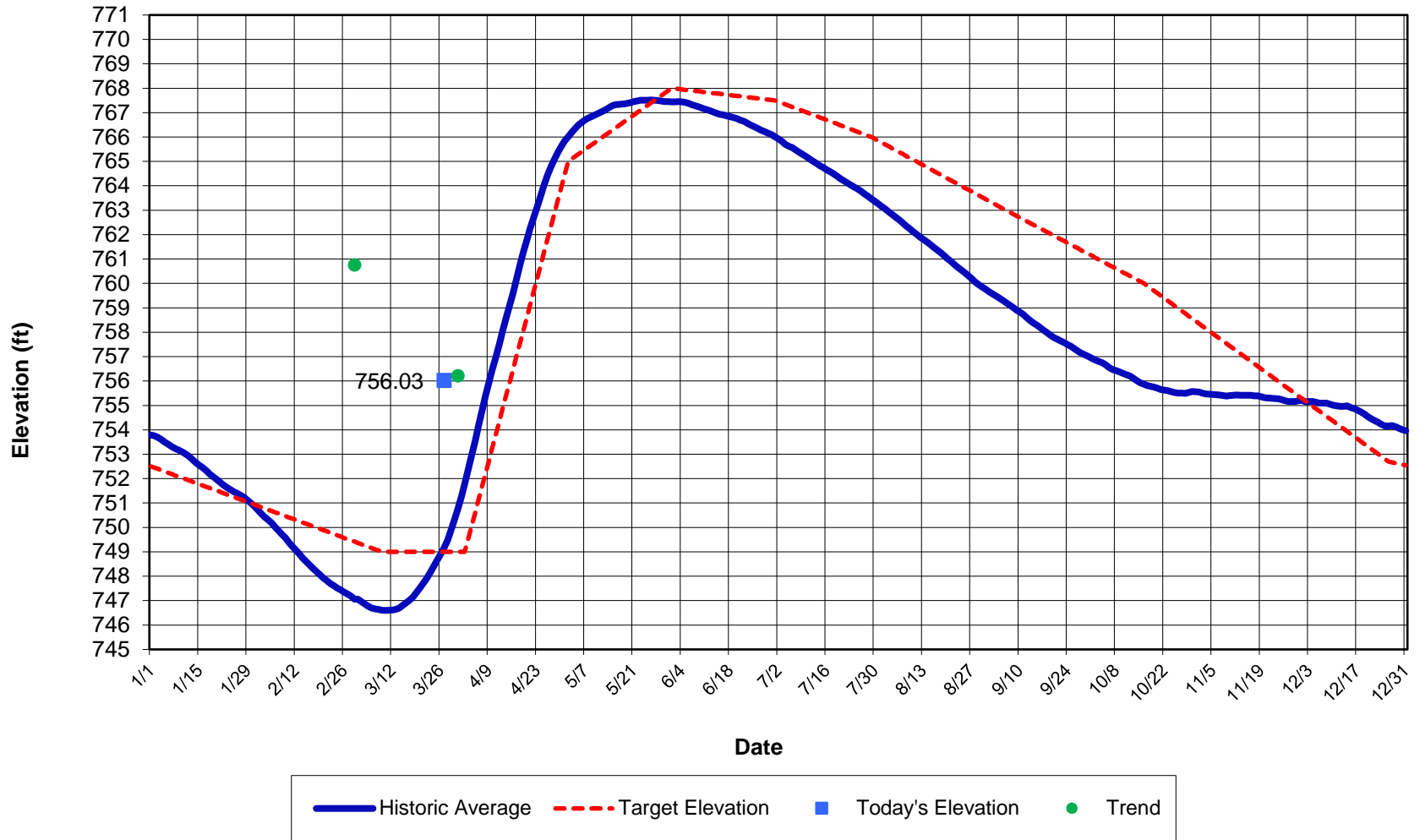
Starting Date 12:00 AM	Starting Elevation	Net Average Inflow	Sacandaga River Flow			Maximum Release (Table F - Elev.)	Settlement Level	Hudson at Hadley	Hudson River Below Confluence	Hudson River Target Flow			Ending Elevation	Ending Date 12:00 AM	Daily Average Elevation	Settlement Target Elevation	Historic Daily Average Elev.
			E.J. West Valves	Spillway	Average Release					Minimum (Table C - Level)	Maximum (Table D - Elev.)	Maximum (Table E - Level)					
3/1/2019	760.86	1500	4010	0	4010	4000	3.49	2550	6560	2980	8000	8480	760.65	3/2/2019	760.76	749.37	747.06
3/2/2019	760.65	1600	3980	0	3980	4000	3.48	2470	6450	2960	8000	8460	760.45	3/3/2019	760.55	749.31	747.06
3/3/2019	760.45	1600	3960	0	3960	4000	3.47	2420	6380	2940	8000	8440	760.25	3/4/2019	760.35	749.26	746.96
3/4/2019	760.25	1500	3900	0	3900	4000	3.45	2400	6300	2900	8000	8400	760.05	3/5/2019	760.15	749.21	746.86
3/5/2019	760.05	1000	3940	0	3940	4000	3.44	2370	6310	2880	8000	8380	759.80	3/6/2019	759.93	749.16	746.77
3/6/2019	759.80	900	4020	0	4020	4000	3.43	2080	6100	2860	8000	8360	759.53	3/7/2019	759.67	749.10	746.70
3/7/2019	759.53	1100	4030	0	4030	4000	3.42	1950	5980	2840	8000	8340	759.28	3/8/2019	759.41	749.05	746.66
3/8/2019	759.28	900	4050	0	4050	4000	3.40	1910	5960	2800	8000	8300	759.01	3/9/2019	759.15	749.00	746.64
3/9/2019	759.01	800	4020	0	4020	4000	3.39	2100	6120	2780	8000	8280	758.73	3/10/2019	758.87	749.00	746.60
3/10/2019	758.73	1700	3990	0	3990	4000	3.39	2020	6010	2780	8000	8280	758.53	3/11/2019	758.63	749.00	746.60
3/11/2019	758.53	800	3950	0	3950	4000	3.39	1890	5840	2780	8000	8280	758.26	3/12/2019	758.40	749.00	746.61
3/12/2019	758.26	1000	4010	0	4010	4000	3.38	1930	5940	2760	8000	8260	758.00	3/13/2019	758.13	749.00	746.62
3/13/2019	758.00	1000	4130	0	4130	4000	3.38	2050	6180	2760	8000	8260	757.72	3/14/2019	757.86	749.00	746.64
3/14/2019	757.72	900	4130	0	4130	4000	3.37	1870	6000	2740	8000	8240	757.44	3/15/2019	757.58	749.00	746.70
3/15/2019	757.44	2700	4130	0	4130	4000	3.36	2200	6330	2720	8000	8220	757.31	3/16/2019	757.38	749.00	746.80
3/16/2019	757.31	4300	4130	0	4130	4000	3.36	3500	7630	2720	8000	8220	757.32	3/17/2019	757.32	749.00	746.91
3/17/2019	757.32	3500	4130	0	4130	4000	3.35	3970	8100	2700	8000	8200	757.26	3/18/2019	757.29	749.00	747.01
3/18/2019	757.26	2700	4180	0	4180	4000	3.35	3780	7960	2700	8000	8200	757.13	3/19/2019	757.20	749.00	747.14
3/19/2019	757.13	2000	4190	0	4190	4000	3.34	3580	7770	2680	8000	8180	756.94	3/20/2019	757.04	749.00	747.33
3/20/2019	756.94	2300	4190	0	4190	4000	3.34	3430	7620	2680	8000	8180	756.77	3/21/2019	756.86	749.00	747.52
3/21/2019	756.77	2700	4150	0	4150	4000	3.33	3220	7370	2660	8000	8160	756.64	3/22/2019	756.71	749.00	747.71
3/22/2019	756.64	4000	4130	0	4130	4000	3.33	3330	7460	2660	8000	8160	756.62	3/23/2019	756.63	749.00	747.91
3/23/2019	756.62	2900	4120	0	4120	4000	3.33	3620	7740	2660	8000	8160	756.51	3/24/2019	756.57	749.00	748.16
3/24/2019	756.51	2100	4160	0	4160	4000	3.32	3520	7680	2640	8000	8140	756.33	3/25/2019	756.42	749.00	748.42
3/25/2019	756.33	2500	4190	0	4190	4000	3.32	3440	7630	2640	8000	8140	756.18	3/26/2019	756.26	749.00	748.65
3/26/2019	756.18	2800	4190	0	4190	4000	3.31	3490	7680	2620	8000	8120	756.05	3/27/2019	756.12	749.00	748.90
3/27/2019	756.05	3500	4000	0	4000	4000	3.31	3600	7600	2620	8000	8120	756.00	3/28/2019	756.03	749.00	749.16
3/28/2019	756.00	3900	4000	0	4000	4000	3.30	3700	7700	2600	8000	8100	755.99	3/29/2019	756.00	749.00	749.48
3/29/2019	755.99	4500	4000	0	4000	4000	3.29	3800	7800	2580	8000	8080	756.03	3/30/2019	756.01	749.00	749.88
3/30/2019	756.03	5500	4000	0	4000	4000	3.28	3900	7900	2560	8000	8060	756.16	3/31/2019	756.10	749.00	750.30
3/31/2019	756.16	5200	4000	0	4000	4000	3.27	4000	8000	2540	8000	8040	756.26	4/1/2019	756.21	749.00	750.76
4/1/2019	756.26	5000	4000	0	4000	4000	3.26	4000	8000	2520	8000	8020	755.55	3/24/2019		749.00	751.26
1/19/2019	767.29	1500	4500	0	4500	5027	3.00	2400	6900	2000	8000	7500	753.54	3/15/2019		749.00	746.80

500

Signature: _____

Date: _____

Great Sacandaga Lake Target Elevation

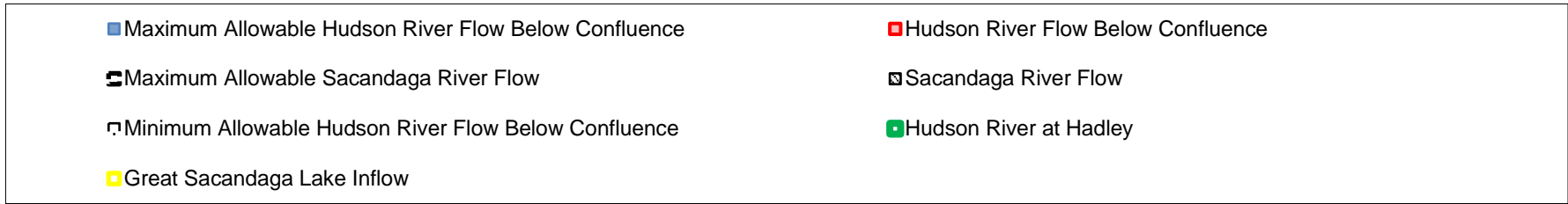
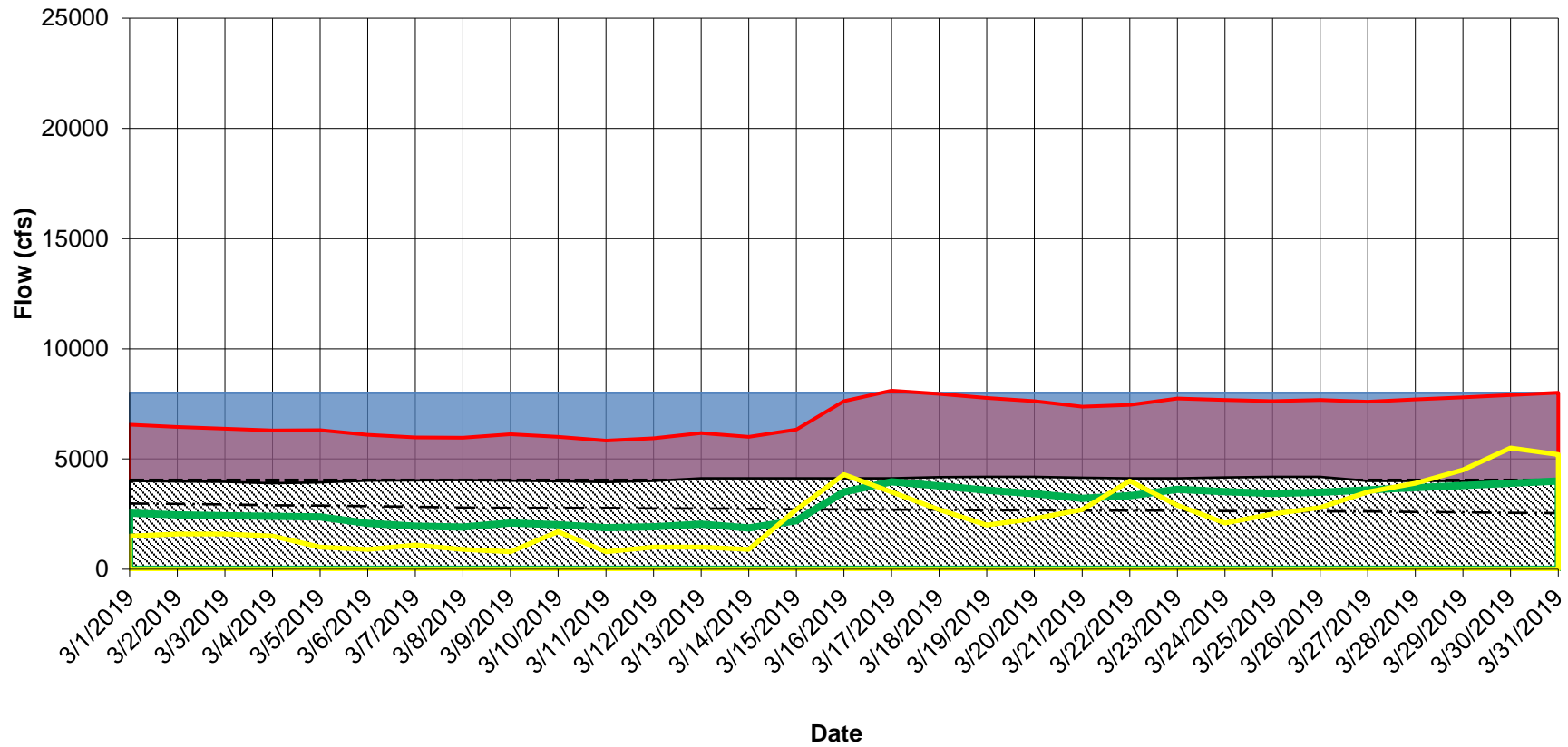


**GREAT SACANDAGA LAKE
RESERVOIR OPERATION SUMMARY**

Print Date: 3/27/2019
 Period of Record: 3/1/2019 to 3/29/2019

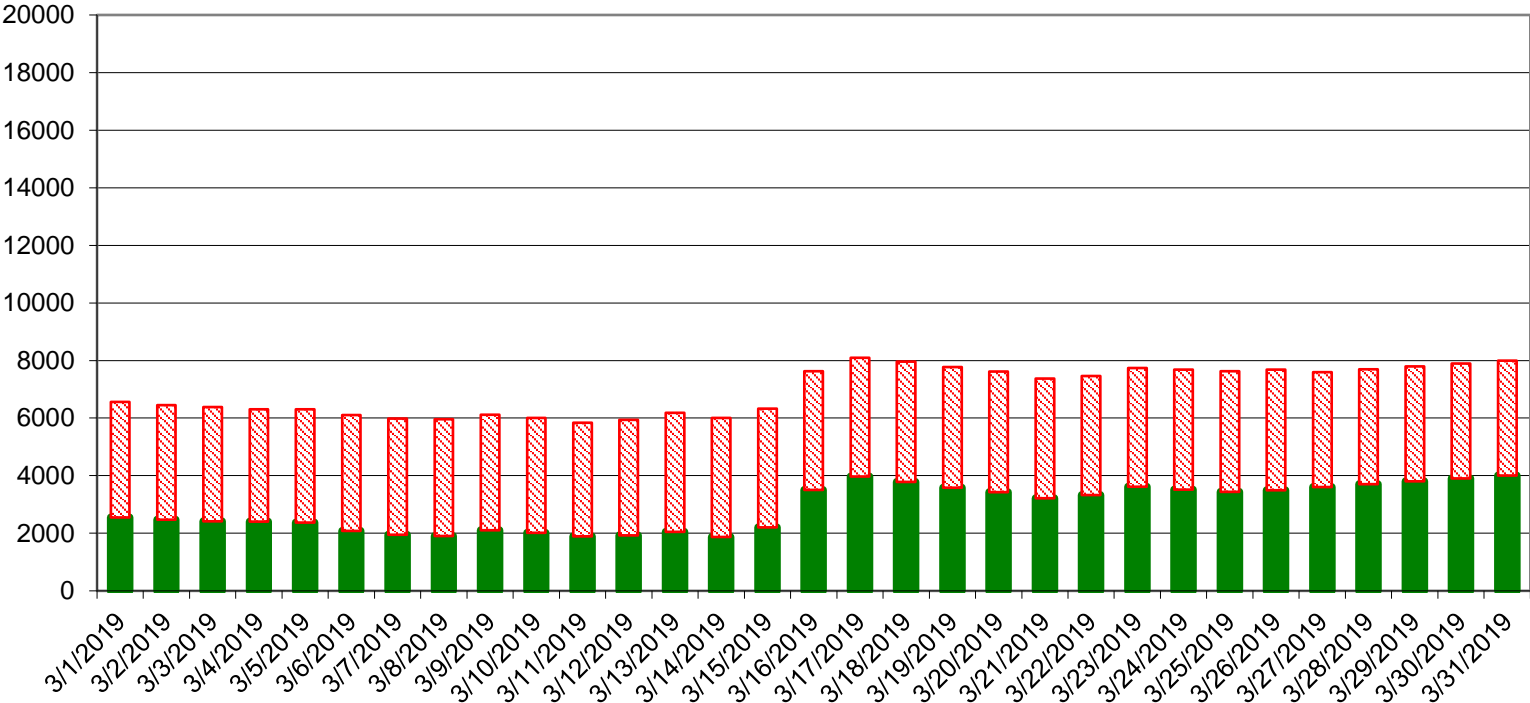
Starting Date 12:00 AM	Daily Avg. Elevation	Net Average Inflow	Sacandaga River Flow		Settlement Level	Hudson at Hadley	Hudson River Below Confluence	Hudson River Target Flow		Maximum Allowable Sacandaga
			Average Release	Maximum (Table F - Elev.)				Minimum (Table B - Level)	Maximum (Table D & E)	
3/1/2019	760.76	1500	4010	4000	3.49	2550	6560	2980	8000	4000
3/2/2019	760.55	1600	3980	4000	3.48	2470	6450	2960	8000	4000
3/3/2019	760.35	1600	3960	4000	3.47	2420	6380	2940	8000	4000
3/4/2019	760.15	1500	3900	4000	3.45	2400	6300	2900	8000	4000
3/5/2019	759.93	1000	3940	4000	3.44	2370	6310	2880	8000	4000
3/6/2019	759.67	900	4020	4000	3.43	2080	6100	2860	8000	4000
3/7/2019	759.41	1100	4030	4000	3.42	1950	5980	2840	8000	4000
3/8/2019	759.15	900	4050	4000	3.40	1910	5960	2800	8000	4000
3/9/2019	758.87	800	4020	4000	3.39	2100	6120	2780	8000	4000
3/10/2019	758.63	1700	3990	4000	3.39	2020	6010	2780	8000	4000
3/11/2019	758.40	800	3950	4000	3.39	1890	5840	2780	8000	4000
3/12/2019	758.13	1000	4010	4000	3.38	1930	5940	2760	8000	4000
3/13/2019	757.86	1000	4130	4000	3.38	2050	6180	2760	8000	4000
3/14/2019	757.58	900	4130	4000	3.37	1870	6000	2740	8000	4000
3/15/2019	757.38	2700	4130	4000	3.36	2200	6330	2720	8000	4000
3/16/2019	757.32	4300	4130	4000	3.36	3500	7630	2720	8000	4000
3/17/2019	757.29	3500	4130	4000	3.35	3970	8100	2700	8000	4000
3/18/2019	757.20	2700	4180	4000	3.35	3780	7960	2700	8000	4000
3/19/2019	757.04	2000	4190	4000	3.34	3580	7770	2680	8000	4000
3/20/2019	756.86	2300	4190	4000	3.34	3430	7620	2680	8000	4000
3/21/2019	756.71	2700	4150	4000	3.33	3220	7370	2660	8000	4000
3/22/2019	756.63	4000	4130	4000	3.33	3330	7460	2660	8000	4000
3/23/2019	756.57	2900	4120	4000	3.33	3620	7740	2660	8000	4000
3/24/2019	756.42	2100	4160	4000	3.32	3520	7680	2640	8000	4000
3/25/2019	756.26	2500	4190	4000	3.32	3440	7630	2640	8000	4000
3/26/2019	756.12	2800	4190	4000	3.31	3490	7680	2620	8000	4000
3/27/2019	756.03	3500	4000	4000	3.31	3600	7600	2620	8000	4000
3/28/2019	756.00	3900	4000	4000	3.30	3700	7700	2600	8000	4000
3/29/2019	756.01	4500	4000	4000	3.29	3800	7800	2580	8000	4000
3/30/2019	756.10	5500	4000	4000	3.28	3900	7900	2560	8000	4000
3/31/2019	756.21	5200	4000	4000	3.27	4000	8000	2540	8000	4000

Great Sacandaga Lake Actual and Maximum Allowable Hudson River Flow Below Confluence



Great Sacandaga Lake GSL Release and Natural Hudson River Flow

Total Flow Below Confluence (cfs)



Date



STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SACANDAGA RESERVOIR / HUDSON RIVER REGULATION

Monthly Report for: February 2019

Day	Sacandaga Reservoir Elevation Average Daily	Sacandaga Reservoir Elevation Midnight	Sacandaga River Near Hope cfs	Reservoir Inflow Hope x 2.0710 cfs	Sacandaga River at Stewarts Bridge cfs	Hudson River at Hadley cfs	Regulated Hudson River below confluence cfs
1	763.29	763.35	1260	2609	4110	2880	6990
2	763.10	763.21	1190	2464	4130	2740	6870
3	762.91	762.99	1100	2278	4150	2710	6860
4	762.73	762.82	981	2032	4080	2740	6820
5	762.57	762.63	1200	2485	4090	2820	6910
6	762.47	762.51	1800	3728	4090	3250	7340
7	762.50	762.46	1910	3956	4080	3710	7790
8	762.69	762.51	3100	6420	4070	4560	8630
9	763.10	762.83	3350	6938	3200	5560	8760
10	763.37	763.19	2630	5447	2250	5620	7870
11	763.49	763.45	2220	4598	3220	5140	8360
12	763.52	763.50	1810	3749	3460	4790	8250
13	763.54	763.53	1630	3376	4010	3690	7700
14	763.46	763.51	1450	3003	3830	3880	7710
15	763.31	763.38	1290	2672	4020	3780	7800
16	763.19	763.24	1140	2361	4020	3600	7620
17	763.00	763.07	1000	2071	4020	3490	7510
18	762.82	762.90	919	1903	4020	3060	7080
19	762.65	762.77	794	1644	4020	2850	6870
20	762.42	762.55	761	1576	4020	2660	6680
21	762.25	762.31	763	1580	4020	2580	6600
22	762.03	762.15	728	1508	4020	2620	6640
23	761.80	761.95	675	1398	4020	2700	6720
24	761.62	761.68	850	1760	4020	2550	6570
25	761.55	761.58	1080	2237	4020	2890	6910
26	761.36	761.48	894	1851	4050	2820	6870
27	761.15	761.26	829	1717	4040	2560	6600
28	760.98	761.08	786	1628	4020	2270	6290

AVERAGE 1360 2820 3900 3380 7270

CHANGE IN STORAGE DURING THE MONTH

-2.63 B.C.F.

Hope gauge affected by ice.

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
INDIAN LAKE RESERVOIR REGULATION

Monthly Report for: February, 2019

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow cfs	Indian River at Indian Lake cfs	Hudson River at Newcomb cfs	Regulated Hudson River at North Creek cfs
1	1642.10	1642.18	172	450	359	1610
2	1641.96	1642.03	170	448	322	1530
3	1641.82	1641.88	185	444	299	1470
4	1641.67	1641.74	236	458	281	1420
5	1641.57	1641.62	354	484	281	1440
6	1641.54	1641.55	502	483	383	1860
7	1641.56	1641.56	446	483	559	2290
8	1641.65	1641.54	748	489	637	2850
9	1641.80	1641.68	802	487	813	3480
10	1641.89	1641.85	613	483	860	3470
11	1641.91	1641.92	424	480	732	2910
12	1641.88	1641.89	500	481	602	2480
13	1641.89	1641.90	387	480	534	2250
14	1641.81	1641.85	292	477	476	2070
15	1641.70	1641.75	308	475	421	1900
16	1641.59	1641.66	194	472	379	1720
17	1641.45	1641.51	230	471	340	1660
18	1641.32	1641.38	247	469	311	1510
19	1641.18	1641.26	188	466	286	1480
20	1641.03	1641.11	197	463	265	1400
21	1640.90	1640.97	200	460	254	1330
22	1640.74	1640.82	179	457	244	1290
23	1640.58	1640.66	159	454	230	1350
24	1640.46	1640.49	141	454	226	1250
25	1640.39	1640.31	538	451	246	1370
26	1640.28	1640.36	172	450	251	1360
27	1640.14	1640.20	258	449	246	1290
28	1640.02	1640.09	187	447	236	1270

AVERAGE 322 467 395 1833

CHANGE IN STORAGE DURING THE MONTH -0.349 B.C.F

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
STILLWATER RESERVOIR / BLACK RIVER REGULATION

Monthly Report for: February 2019

Day	Stillwater Reservoir Elevation Average Daily	Stillwater Reservoir Elevation Midnight	Stillwater Reservoir Net Inflow cfs	Stillwater Reservoir Release cfs	Black River at Boonville cfs	Beaver River at Croghan cfs	Regulated Black River at Watertown cfs
1	1669.87	1669.93	370	600	513	1320	6010
2	1669.75	1669.81	390	600	437	1330	5070
3	1669.63	1669.70	332	600	402	1330	4570
4	1669.51	1669.56	428	600	374	1000	4290
5	1669.49	1669.47	657	600	434	1110	5500
6	1669.54	1669.50	772	600	584	1110	7480
7	1669.66	1669.59	868	600	759	1260	8160
8	1669.88	1669.73	1164	600	952	1580	9660
9	1670.11	1670.02	1000	600	1310	1540	11200
10	1670.22	1670.19	741	600	1580	1270	11500
11	1670.26	1670.25	600	600	1280	1150	11400
12	1670.25	1670.25	624	600	1020	961	10500
13	1670.27	1670.26	600	600	828	940	8940
14	1670.24	1670.26	482	600	689	925	7610
15	1670.18	1670.21	459	600	595	846	6620
16	1670.10	1670.15	388	600	526	783	5870
17	1670.00	1670.06	363	600	475	825	5420
18	1669.90	1669.95	390	600	432	818	4850
19	1669.78	1669.84	351	600	392	928	4620
20	1669.64	1669.71	351	600	361	902	4110
21	1669.51	1669.58	332	600	338	768	3830
22	1669.36	1669.44	313	600	323	775	3770
23	1669.21	1669.29	294	600	322	764	3700
24	1669.07	1669.13	428	600	323	775	3630
25	1668.99	1669.04	370	600	336	894	4170
26	1668.86	1668.92	351	600	339	969	4950
27	1668.72	1668.79	332	600	333	1060	5110
28	1668.57	1668.65	313	600	317	703	4580

AVERAGE 502 600 590 1020 6330

CHANGE IN STORAGE DURING THE MONTH

-0.24 B.C.F.

Boonville gauge affected by ice

 CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SIXTH LAKE RESERVOIR REGULATION

Monthly Report for: February, 2019

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow cfs	Gate Opening (ft)		Reservoir Release (cfs)
				Gate A	Gate B	
1	1780.12	1780.16	34	1.00	1.00	65
2	1780.03	1780.07	37	1.00	1.00	64
3	1779.94	1779.99	35	1.00	1.00	63
4	1779.87	1779.91	39	1.00	1.00	63
5	1779.88	1779.84	91	1.00	1.00	63
6	1779.96	1779.92	102	1.00	1.00	64
7	1780.09	1780.03	109	1.00	1.00	65
8	1780.31	1780.16	170	1.00	1.00	66
9	1780.52	1780.46	99	1.00	1.00	68
10	1780.55	1780.55	68	1.00	1.00	68
11	1780.53	1780.55	54	1.00	1.00	68
12	1780.49	1780.51	47	1.00	1.00	68
13	1780.47	1780.45	65	1.00	1.00	68
14	1780.42	1780.44	46	1.00	1.00	67
15	1780.35	1780.38	46	1.00	1.00	67
16	1780.29	1780.32	42	1.00	1.00	66
17	1780.21	1780.25	38	1.00	1.00	66
18	1780.13	1780.17	38	1.00	1.00	65
19	1780.05	1780.09	37	1.00	1.00	64
20	1779.96	1780.01	21	1.00	1.00	63
21	1779.88	1779.89	41	1.00	1.00	62
22	1779.79	1779.83	33	1.00	1.00	61
23	1779.70	1779.75	25	1.00	1.00	60
24	1779.62	1779.65	31	1.00	1.00	59
25	1779.56	1779.57	42	1.00	1.00	59
26	1779.51	1779.52	44	1.00	1.00	58
27	1779.44	1779.48	37	1.00	1.00	57
28	1779.39	1779.42	37	1.00	1.00	57

AVERAGE 54 64

CHANGE IN STORAGE DURING THE MONTH -0.024 B.C.F

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
OLD FORGE RESERVOIR REGULATION

Monthly Report for: February, 2019

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow cfs	Gate Opening (ft)		Reservoir Release (cfs)
				Gate A	Gate B	
1	1703.63	1703.65	86	1.83	1.83	144
2	1703.58	1703.61	86	1.83	1.83	144
3	1703.56	1703.57	85	1.83	1.83	143
4	1703.53	1703.53	113	1.83	1.83	142
5	1703.52	1703.51	185	1.83	1.83	142
6	1703.56	1703.54	244	1.83	1.83	143
7	1703.64	1703.61	245	1.83	1.83	144
8	1703.69	1703.68	247	1.83	1.83	146
9	1703.79	1703.75	248	1.83	1.83	147
10	1703.83	1703.82	176	1.83	1.83	147
11	1703.84	1703.84	133	1.83	1.83	147
12	1703.84	1703.83	191	1.83	1.83	148
13	1703.83	1703.86	105	1.83	1.83	148
14	1703.82	1703.83	133	1.83	1.83	147
15	1703.79	1703.82	75	1.83	1.83	147
16	1703.76	1703.77	117	1.83	1.83	146
17	1703.73	1703.75	88	1.83	1.83	146
18	1703.70	1703.71	73	1.83	1.83	145
19	1703.64	1703.66	86	1.83	1.83	144
20	1703.61	1703.62	101	1.83	1.83	144
21	1703.54	1703.59	42	1.83	1.83	143
22	1703.51	1703.52	99	1.83	1.83	142
23	1703.47	1703.49	99	1.83	1.83	142
24	1703.42	1703.46	54	1.83	1.83	141
25	1703.35	1703.40	94	1.83	1.83	140
26	1703.37	1703.37	124	1.83	1.83	140
27	1703.36	1703.36	124	1.83	1.83	140
28	1703.33	1703.35	76	1.83	1.83	139

AVERAGE 126 144

CHANGE IN STORAGE DURING THE MONTH -0.043 B.C.F

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SACANDAGA RESERVOIR OPERATION
FOR WEEK ENDING: March 2, 2019

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. ⁽¹⁾	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 23	761.95	27.65	12 AM - Mid	4,020	2,700	6,720
Sunday 24	761.68	27.37	12 AM - Mid	4,020	2,550	6,570
Monday 25	761.58	27.26	12 AM - Mid	4,020	2,890	6,910
Tuesday 26	761.48	27.16	12 AM - Mid	4,050	2,820	6,870
Wednesday 27	761.26	26.93	12 AM - Mid	4,040	2,560	6,600
Thursday 28	761.08	26.74	12 AM - Mid	4,020	2,270	6,290
Friday 1	760.87	26.52	12 AM - Mid	4,010	2,550	6,560
Saturday 2	760.65	26.29	12 AM - Mid	3,980	2,470	6,450
CHANGE IN STORAGE DURING THE WEEK		-1.36	* SACANDAGA RIVER AT STEWARTS BRIDGE			

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2019	760.65	26.29	6	2011	749.38	15.39
2	2017	756.09	21.67	7	2012	749.28	15.30
3	2018	755.42	21.02	8	2015	749.19	15.22
4	2016	755.33	20.93	9	2010	749.01	15.06
5	2013	749.44	15.44	10	2014	748.93	14.99

CAPACITY AT SPILLWAY CREST (EL 771) 37.72 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 735) 4.60 B.C.F.

(1) Includes dead storage below El. 735 ft.

CHIEF ENGINEER

STATE OF NEW YORK
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SACANDAGA RESERVOIR OPERATION
 FOR WEEK ENDING: March 9, 2019

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. ⁽¹⁾	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 2	760.65	26.29	12 AM - Mid	3,980	2,470	6,450
Sunday 3	760.43	26.06	12 AM - Mid	3,960	2,420	6,380
Monday 4	760.24	25.86	12 AM - Mid	3,900	2,400	6,300
Tuesday 5	760.07	25.69	12 AM - Mid	3,940	2,370	6,310
Wednesday 6	759.78	25.39	12 AM - Mid	4,020	2,080	6,100
Thursday 7	759.54	25.14	12 AM - Mid	4,030	1,950	5,980
Friday 8	759.28	24.87	12 AM - Mid	4,050	1,910	5,960
Saturday 9	759.01	24.59	12 AM - Mid	4,020	2,100	6,120
CHANGE IN STORAGE DURING THE WEEK		-1.70	* SACANDAGA RIVER AT STEWARTS BRIDGE			

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2019	759.01	24.59	6	2012	749.18	15.21
2	2017	758.96	24.54	7	2013	748.88	14.95
3	2018	755.32	20.92	8	2014	748.75	14.83
4	2016	754.52	20.15	9	2015	748.61	14.71
5	2011	750.09	16.02	10	2010	748.07	14.23

CAPACITY AT SPILLWAY CREST (EL 771) 37.72 B.C.F.
 CAPACITY AT LOW FLOW LINE (EL 735) 4.60 B.C.F.

(1) Includes dead storage below El. 735 ft.

 CHIEF ENGINEER

STATE OF NEW YORK
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SACANDAGA RESERVOIR OPERATION
 FOR WEEK ENDING: March 16, 2019

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. ⁽¹⁾	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 9	759.01	24.59	12 AM - Mid	4,020	2,100	6,120
Sunday 10	758.73	24.31	12 AM - Mid	3,990	2,020	6,010
Monday 11	758.56	24.14	12 AM - Mid	3,950	1,890	5,840
Tuesday 12	758.26	23.84	12 AM - Mid	4,010	1,930	5,940
Wednesday 13	758.00	23.57	12 AM - Mid	4,130	2,050	6,180
Thursday 14	757.72	23.29	12 AM - Mid	4,130	1,870	6,000
Friday 15	757.45	23.02	12 AM - Mid	4,130	2,200	6,330
Saturday 16	757.31	22.88	12 AM - Mid	4,130	3,500	7,630
CHANGE IN STORAGE DURING THE WEEK		-1.71	* SACANDAGA RIVER AT STEWARTS BRIDGE			

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2017	758.61	24.19	6	2012	752.66	18.39
2	2016	757.50	23.07	7	2013	751.38	17.20
3	2019	757.31	22.88	8	2010	749.39	15.40
4	2018	754.13	19.78	9	2014	748.69	14.78
5	2011	753.52	19.20	10	2015	748.19	14.34

CAPACITY AT SPILLWAY CREST (EL 771) 37.72 B.C.F.
 CAPACITY AT LOW FLOW LINE (EL 735) 4.60 B.C.F.

(1) Includes dead storage below El. 735 ft.

 CHIEF ENGINEER

STATE OF NEW YORK
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SACANDAGA RESERVOIR OPERATION
 FOR WEEK ENDING: March 23, 2019

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. ⁽¹⁾	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 16	757.31	22.88	12 AM - Mid	4,130	3,500	7,630
Sunday 17	757.32	22.89	12 AM - Mid	4,130	3,970	8,100
Monday 18	757.25	22.82	12 AM - Mid	4,180	3,780	7,960
Tuesday 19	757.10	22.67	12 AM - Mid	4,190	3,580	7,770
Wednesday 20	756.96	22.53	12 AM - Mid	4,190	3,430	7,620
Thursday 21	756.78	22.36	12 AM - Mid	4,150	3,220	7,370
Friday 22	756.65	22.23	12 AM - Mid	4,130	3,330	7,460
Saturday 23	756.59	22.17	12 AM - Mid	4,120	3,620	7,740

CHANGE IN STORAGE DURING THE WEEK	-0.72	* SACANDAGA RIVER AT STEWARTS BRIDGE				
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2016	759.37	24.97	6	2010	755.47	21.07
2	2017	757.03	22.60	7	2018	752.41	18.15
3	2011	756.90	22.47	8	2013	751.69	17.49
4	2012	756.70	22.28	9	2014	748.50	14.61
5	2019	756.59	22.17	10	2015	747.80	14.00

CAPACITY AT SPILLWAY CREST (EL 771) 37.72 B.C.F.
 CAPACITY AT LOW FLOW LINE (EL 735) 4.60 B.C.F.

(1) Includes dead storage below El. 735 ft.

 CHIEF ENGINEER

STATE OF NEW YORK
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
INDIAN LAKE RESERVOIR OPERATION
 FOR WEEK ENDING: March 2, 2019

DATE	INDIAN LAKE RESERVOIR			INDIAN RIVER	HUDSON RIVER	
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	NEWCOMB AVG. DAILY C.F.S.	NORTH CREEK AVG. DAILY C.F.S.
Saturday 23	1,640.66	1.86	12 AM - Mid	452	230	1,350
Sunday 24	1,640.49	1.84	12 AM - Mid	452	228	1,250
Monday 25	1,640.31	1.81	12 AM - Mid	449	246	1,370
Tuesday 26	1,640.36	1.82	12 AM - Mid	448	251	1,360
Wednesday 27	1,640.20	1.79	12 AM - Mid	447	246	1,290
Thursday 28	1,640.09	1.78	12 AM - Mid	445	236	1,270
Friday 1	1,639.94	1.75	12 AM - Mid	442	224	1,230
Saturday 2	1,639.80	1.73	12 AM - Mid	438	213	1,210

CHANGE IN STORAGE DURING THE WEEK	-0.13	* INIDAN RIVER NEAR INDIAN LAKE
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2017	1,645.60	2.67	6	2015	1,638.98	1.61
2	2018	1,644.21	2.43	7	2011	1,638.69	1.57
3	2016	1,643.56	2.32	8	2014	1,638.60	1.55
4	2019	1,639.80	1.73	9	2010	1,638.59	1.55
5	2012	1,639.20	1.64	10	2013	1,638.32	1.51

CAPACITY AT SPILLWAY CREST (EL 1651.29) 3.7 B.C.F.

 CHIEF ENGINEER

STATE OF NEW YORK
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
INDIAN LAKE RESERVOIR OPERATION
 FOR WEEK ENDING: March 9, 2019

DATE	INDIAN LAKE RESERVOIR			INDIAN RIVER	HUDSON RIVER	
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	NEWCOMB AVG. DAILY C.F.S.	NORTH CREEK AVG. DAILY C.F.S.
Saturday 2	1,639.80	1.73	12 AM - Mid	438	213	1,210
Sunday 3	1,639.65	1.71	12 AM - Mid	434	205	1,170
Monday 4	1,639.49	1.69	12 AM - Mid	432	199	1,140
Tuesday 5	1,639.36	1.67	12 AM - Mid	432	192	1,100
Wednesday 6	1,639.18	1.64	12 AM - Mid	429	185	1,070
Thursday 7	1,639.02	1.62	12 AM - Mid	427	179	1,090
Friday 8	1,638.87	1.59	12 AM - Mid	423	174	1,040
Saturday 9	1,638.68	1.57	12 AM - Mid	417	168	984

CHANGE IN STORAGE DURING THE WEEK	-0.17	* INIDAN RIVER NEAR INDIAN LAKE
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2017	1,645.77	2.70	6	2015	1,638.93	1.60
2	2018	1,643.92	2.38	7	2019	1,638.68	1.57
3	2016	1,643.74	2.35	8	2014	1,637.97	1.46
4	2011	1,640.22	1.80	9	2010	1,637.97	1.46
5	2012	1,639.01	1.62	10	2013	1,637.64	1.41

CAPACITY AT SPILLWAY CREST (EL 1651.29) 3.7 B.C.F.

 CHIEF ENGINEER

STATE OF NEW YORK
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
INDIAN LAKE RESERVOIR OPERATION
 FOR WEEK ENDING: March 16, 2019

DATE	INDIAN LAKE RESERVOIR			INDIAN RIVER	HUDSON RIVER	
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	NEWCOMB AVG. DAILY C.F.S.	NORTH CREEK AVG. DAILY C.F.S.
Saturday 9	1,638.68	1.57	12 AM - Mid	417	168	984
Sunday 10	1,638.50	1.54	12 AM - Mid	411	167	981
Monday 11	1,638.30	1.51	12 AM - Mid	408	169	983
Tuesday 12	1,638.24	1.50	12 AM - Mid	404	168	952
Wednesday 13	1,638.06	1.47	12 AM - Mid	403	164	932
Thursday 14	1,637.92	1.45	12 AM - Mid	399	164	916
Friday 15	1,637.76	1.43	12 AM - Mid	400	193	1,130
Saturday 16	1,637.74	1.42	12 AM - Mid	400	309	1,870

CHANGE IN STORAGE DURING THE WEEK	-0.14	* INIDAN RIVER NEAR INDIAN LAKE
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2016	1,646.77	2.87	6	2015	1,638.84	1.59
2	2017	1,644.70	2.51	7	2013	1,638.84	1.59
3	2018	1,643.21	2.27	8	2010	1,638.70	1.57
4	2011	1,641.70	2.03	9	2014	1,637.88	1.45
5	2012	1,641.05	1.92	10	2019	1,637.74	1.42

CAPACITY AT SPILLWAY CREST (EL 1651.29) 3.7 B.C.F.

 CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
INDIAN LAKE RESERVOIR OPERATION
FOR WEEK ENDING: March 23, 2019

DATE	INDIAN LAKE RESERVOIR			INDIAN RIVER	HUDSON RIVER	
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	NEWCOMB AVG. DAILY C.F.S.	NORTH CREEK AVG. DAILY C.F.S.
Saturday 16	1,637.74	1.42	12 AM - Mid	405	309	1,870
Sunday 17	1,637.79	1.43	12 AM - Mid	408	472	2,140
Monday 18	1,637.81	1.44	12 AM - Mid	410	474	2,090
Tuesday 19	1,637.72	1.42	12 AM - Mid	412	413	1,920
Wednesday 20	1,637.63	1.41	12 AM - Mid	415	356	1,720
Thursday 21	1,637.50	1.39	12 AM - Mid	416	321	1,550
Friday 22	1,637.42	1.38	12 AM - Mid	417	312	1,560
Saturday 23	1,637.34	1.36	12 AM - Mid	416	319	1,600

CHANGE IN STORAGE DURING THE WEEK	-0.06	* INIDAN RIVER NEAR INDIAN LAKE
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2016	1,648.28	3.14	6	2010	1,641.98	2.07
2	2012	1,645.44	2.64	7	2015	1,638.76	1.58
3	2017	1,643.11	2.25	8	2013	1,638.60	1.55
4	2018	1,642.27	2.12	9	2014	1,637.76	1.43
5	2011	1,642.08	2.09	10	2019	1,637.34	1.36

CAPACITY AT SPILLWAY CREST (EL 1651.29) 3.7 B.C.F.

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
STILLWATER RESERVOIR OPERATION

FOR WEEK ENDING: **March 2, 2019**

DATE	STILLWATER RESERVOIR			BEAVER RIVER		BLACK RIVER
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	STILLWATER RELEASE AVG. DAILY C.F.S.	CROGHAN AVG. DAILY FLOW C.F.S.	WATERTOWN AVG. DAILY FLOW C.F.S.
Saturday 23	1,669.29	2.41	12 AM -Mid	600	764	3,700
Sunday 24	1,669.13	2.39	12 AM -Mid	600	775	3,630
Monday 25	1,669.04	2.37	12 AM -Mid	600	894	4,170
Tuesday 26	1,668.92	2.35	12 AM -Mid	600	969	4,950
Wednesday 27	1,668.79	2.33	12 AM -Mid	600	1,060	5,110
Thursday 28	1,668.65	2.31	12 AM -Mid	600	703	4,580
Friday 1	1,668.50	2.28	12 AM -Mid	600	895	4,140
Saturday 2	1,668.33	2.26	12 AM -Mid	600	648	3,780
CHANGE IN STORAGE DURING THE WEEK		-0.16				

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2018	1,674.47	3.51	6	2013	1,667.59	2.13
2	2017	1,671.62	2.87	7	2011	1,666.08	1.88
3	2016	1,670.28	2.59	8	2012	1,665.96	1.86
4	2014	1,669.65	2.47	9	2010	1,665.50	1.79
5	2019	1,668.33	2.26	10	2015	1,660.63	0.98

CAPACITY AT SPILLWAY CREST (EL 1677.3) 4.213 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 1650.8) 0.10 B.C.F.

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
STILLWATER RESERVOIR OPERATION

FOR WEEK ENDING: **March 9, 2019**

DATE	STILLWATER RESERVOIR			BEAVER RIVER		BLACK RIVER
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	STILLWATER RELEASE AVG. DAILY C.F.S.	CROGHAN AVG. DAILY FLOW C.F.S.	WATERTOWN AVG. DAILY FLOW C.F.S.
Saturday 2	1,668.33	2.26	12 AM -Mid	600	648	3,780
Sunday 3	1,668.16	2.23	12 AM -Mid	600	670	3,430
Monday 4	1,668.00	2.20	12 AM -Mid	600	719	3,360
Tuesday 5	1,667.84	2.17	12 AM -Mid	600	765	3,500
Wednesday 6	1,667.64	2.14	12 AM -Mid	600	867	3,360
Thursday 7	1,667.44	2.11	12 AM -Mid	600	783	3,180
Friday 8	1,667.24	2.08	12 AM -Mid	600	867	3,160
Saturday 9	1,667.03	2.04	12 AM -Mid	600	825	3,090
CHANGE IN STORAGE DURING THE WEEK		-0.21				

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2018	1,674.27	3.46	6	2011	1,666.79	2.00
2	2017	1,673.69	3.32	7	2013	1,666.08	1.88
3	2016	1,670.68	2.67	8	2012	1,665.75	1.83
4	2014	1,668.23	2.24	9	2010	1,664.97	1.70
5	2019	1,667.03	2.04	10	2015	1,659.69	0.85

CAPACITY AT SPILLWAY CREST (EL 1677.3) 4.213 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 1650.8) 0.10 B.C.F.

CHIEF ENGINEER

STATE OF NEW YORK
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
STILLWATER RESERVOIR OPERATION
 FOR WEEK ENDING: **March 16, 2019**

DATE	STILLWATER RESERVOIR			BEAVER RIVER		BLACK RIVER
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	STILLWATER RELEASE AVG. DAILY C.F.S.	CROGHAN AVG. DAILY FLOW C.F.S.	WATERTOWN AVG. DAILY FLOW C.F.S.
Saturday 9	1,667.03	2.04	12 AM -Mid	600	825	3,090
Sunday 10	1,666.80	2.00	12 AM -Mid	600	715	2,820
Monday 11	1,666.65	1.98	12 AM -Mid	600	741	2,790
Tuesday 12	1,666.44	1.94	12 AM -Mid	600	715	2,810
Wednesday 13	1,666.22	1.91	12 AM -Mid	600	632	2,740
Thursday 14	1,665.99	1.87	12 AM -Mid	600	664	2,700
Friday 15	1,665.79	1.84	12 AM -Mid	600	996	4,360
Saturday 16	1,665.83	1.84	12 AM -Mid	600	1,300	7,690

CHANGE IN STORAGE DURING THE WEEK	-0.20
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2017	1,673.77	3.34	6	2014	1,666.85	2.01
2	2018	1,673.54	3.29	7	2013	1,666.46	1.95
3	2016	1,673.26	3.23	8	2019	1,665.83	1.84
4	2011	1,669.38	2.43	9	2010	1,665.16	1.73
5	2012	1,668.20	2.23	10	2015	1,658.76	0.77

CAPACITY AT SPILLWAY CREST (EL 1677.3) 4.213 B.C.F.
 CAPACITY AT LOW FLOW LINE (EL 1650.8) 0.10 B.C.F.

 CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
STILLWATER RESERVOIR OPERATION

FOR WEEK ENDING: **March 23, 2019**

DATE	STILLWATER RESERVOIR			BEAVER RIVER		BLACK RIVER
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	STILLWATER RELEASE AVG. DAILY C.F.S.	CROGHAN AVG. DAILY FLOW C.F.S.	WATERTOWN AVG. DAILY FLOW C.F.S.
Saturday 16	1,665.83	1.84	12 AM -Mid	600	1,300	7,690
Sunday 17	1,665.87	1.85	12 AM -Mid	600	1,210	7,910
Monday 18	1,665.82	1.84	12 AM -Mid	600	1,060	7,900
Tuesday 19	1,665.70	1.82	12 AM -Mid	600	907	7,600
Wednesday 20	1,665.56	1.80	12 AM -Mid	600	905	7,020
Thursday 21	1,665.39	1.77	12 AM -Mid	600	809	6,490
Friday 22	1,665.24	1.75	12 AM -Mid	600	844	6,330
Saturday 23	1,665.13	1.73	12 AM -Mid	600	894	6,540

CHANGE IN STORAGE DURING THE WEEK

-0.12

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2016	1,674.30	3.47	6	2010	1,667.09	2.05
2	2017	1,673.11	3.19	7	2013	1,666.74	1.99
3	2018	1,672.38	3.03	8	2014	1,665.22	1.74
4	2012	1,671.96	2.94	9	2019	1,665.13	1.73
5	2011	1,671.76	2.90	10	2015	1,657.83	0.60

CAPACITY AT SPILLWAY CREST (EL 1677.3) 4.213 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 1650.8) 0.10 B.C.F.

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
FULTON CHAIN RESERVOIR OPERATION

FOR WEEK ENDING: **March 2, 2019**

DATE	OLD FORGE RESERVOIR			SIXTH LAKE RESERVOIR		
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.
Saturday 23	1,703.49	0.453	142	1,779.75	0.104	60
Sunday 24	1,703.45	0.448	141	1,779.65	0.101	59
Monday 25	1,703.40	0.442	140	1,779.57	0.098	59
Tuesday 26	1,703.37	0.438	140	1,779.52	0.097	58
Wednesday 27	1,703.36	0.437	140	1,779.48	0.096	57
Thursday 28	1,703.35	0.435	139	1,779.42	0.094	57
Friday 1	1,703.31	0.430	139	1,779.36	0.092	56
Saturday 2	1,703.26	0.424	138	1,779.28	0.090	55
CHANGE IN STORAGE		-0.030			-0.014	

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST FIVE YEARS

OLD FORGE RESERVOIR				SIXTH LAKE RESERVOIR			
NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2017	1,704.18	0.539	1	2017	1,782.74	0.194
2	2018	1,703.92	0.507	2	2016	1,781.83	0.166
3	2016	1,703.29	0.427	3	2018	1,781.53	0.157
4	2015	1,703.29	0.427	4	2015	1,780.15	0.116
5	2019	1,703.26	0.424	5	2019	1,779.28	0.090

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1707.10) 0.924 B.C.F.
SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1786.00) 0.297 B.C.F.

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
FULTON CHAIN RESERVOIR OPERATION

FOR WEEK ENDING: **March 9, 2019**

DATE	OLD FORGE RESERVOIR			SIXTH LAKE RESERVOIR		
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.
Saturday 2	1,703.26	0.424	138	1,779.28	0.090	55
Sunday 3	1,703.21	0.417	137	1,779.21	0.088	54
Monday 4	1,703.16	0.411	136	1,779.14	0.086	53
Tuesday 5	1,703.11	0.404	135	1,779.06	0.084	52
Wednesday 6	1,703.06	0.398	73	1,178.99	#N/A	31
Thursday 7	1,703.04	0.396	42	1,779.02	0.082	20
Friday 8	1,703.05	0.397	42	1,779.01	0.082	20
Saturday 9	1,703.05	0.397	42	1,779.00	0.082	20
CHANGE IN STORAGE		-0.027			-0.008	

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST FIVE YEARS

OLD FORGE RESERVOIR				SIXTH LAKE RESERVOIR			
NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2017	1,704.44	0.573	1	2017	1,782.67	0.192
2	2018	1,703.86	0.499	2	2016	1,781.41	0.153
3	2016	1,703.41	0.443	3	2018	1,781.03	0.142
4	2015	1,703.16	0.411	4	2015	1,780.15	0.116
5	2019	1,703.05	0.397	5	2019	1,779.00	0.082

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1707.10) 0.924 B.C.F.
SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1786.00) 0.297 B.C.F.

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
FULTON CHAIN RESERVOIR OPERATION

FOR WEEK ENDING: **March 16, 2019**

DATE	OLD FORGE RESERVOIR			SIXTH LAKE RESERVOIR		
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.
Saturday 9	1,703.05	0.397	42	1,779.00	0.082	20
Sunday 10	1,703.06	0.398	42	1,779.01	0.082	20
Monday 11	1,703.06	0.398	42	1,779.00	0.082	20
Tuesday 12	1,703.08	0.401	43	1,779.00	0.082	20
Wednesday 13	1,703.09	0.402	43	1,779.00	0.082	20
Thursday 14	1,703.10	0.403	43	1,779.00	0.082	20
Friday 15	1,703.11	0.404	43	1,778.99	#N/A	20
Saturday 16	1,703.17	0.412	44	1,779.24	0.089	21
CHANGE IN STORAGE		0.015			0.007	

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST FIVE YEARS

OLD FORGE RESERVOIR				SIXTH LAKE RESERVOIR			
NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2017	1,704.88	0.630	1	2017	1,782.19	0.177
2	2018	1,703.75	0.486	2	2016	1,781.95	0.170
3	2016	1,703.71	0.481	3	2018	1,780.32	0.121
4	2019	1,703.17	0.412	4	2015	1,780.15	0.116
5	2015	1,703.06	0.398	5	2019	1,779.24	0.089

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1707.10) 0.924 B.C.F.
SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1786.00) 0.297 B.C.F.

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
FULTON CHAIN RESERVOIR OPERATION

FOR WEEK ENDING: **March 23, 2019**

DATE	OLD FORGE RESERVOIR			SIXTH LAKE RESERVOIR		
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.
Saturday 16	1,703.17	0.412	44	1,779.24	0.089	21
Sunday 17	1,703.26	0.424	44	1,779.41	0.094	22
Monday 18	1,703.32	0.431	44	1,779.50	0.096	22
Tuesday 19	1,703.35	0.435	45	1,779.55	0.098	22
Wednesday 20	1,703.37	0.438	45	1,779.56	0.098	22
Thursday 21	1,703.38	0.439	45	1,779.58	0.099	22
Friday 22	1,703.41	0.443	45	1,779.61	0.100	23
Saturday 23	1,703.47	0.451	45	1,779.71	0.103	23
CHANGE IN STORAGE		0.039			0.014	

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST FIVE YEARS

OLD FORGE RESERVOIR				SIXTH LAKE RESERVOIR			
NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2015	1,702.98	0.389	1	2019	1,779.71	0.103
2	2019	1,703.47	0.451	2	2018	1,779.86	0.107
3	2018	1,703.54	0.459	3	2015	1,780.16	0.116
4	2016	1,704.18	0.539	4	2017	1,781.60	0.159
5	2017	1,704.77	0.616	5	2016	1,782.10	0.174

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1707.10) 0.924 B.C.F.
SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1786.00) 0.297 B.C.F.

CHIEF ENGINEER