REPORT OF CHIEF ENGINEER
HUDSON RIVER - BLACK RIVER REGULATING DISTRICT
BOARD MEETING
JANUARY 10, 2023 – MAYFIELD

HUDSON RIVER AREA - DECEMBER SUMMARY

Reservoir Operation

Great Sacandaga Lake

The December average daily release from the Sacandaga Reservoir (Great Sacandaga Lake) was approximately 2,710 cubic feet per second (cfs). The Upper Hudson / Sacandaga River Offer of Settlement target elevation for December 31 is 751.65 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,NAVD)[4]**	**Deviation (ft)** (1)		**Release (cfs)**	
		From Average	**From Offer of Settlement**	**Conklingville Dam**	**E.J. West** (2) **Hydro Plant**
Nov. 30	756.52	+1.94	+2.13	0	3,840
Dec. 31	763.3 (e)	+9.9 (e)	+11.7 (e)	0	3,500 (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] "NAVD" is National Geodetic Vertical Datum

Indian Lake Reservoir

The December average daily release from Indian Lake was approximately 470 cfs.

Table 2.0 - *Indian Lake Reservoir Elevation and Release*

Date	**Daily Average Elevation** (1) **(ft, NAVD)**	**Deviation (ft)**		**Release (cfs)**
		From Average	**From Target**	
Nov. 30	1643.87	-0.21	+2.09	223
Dec. 31	1645.1 (e)	+2.1 (e)	+4.6 (e)	544 (e)

Notes: [1] Local datum = NAVD elevation + 1617.63ft; spillway crest = 1651.01ft (33.38ft)
[2] "(e)" represents estimated value

HUDSON RIVER AREA - DECEMBER SUMMARY- continued

River Flow

Hudson River flow, downstream of the confluence with the Sacandaga River, was approximately 7,389 cfs on December 26 and approximately 2,329 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	2,360 (e)	1,100
Sacandaga at Stewarts Bridge	2,710 (e)	2,640
Indian at Indian Lake Dam	466 (e)	290
Hudson at Hadley (1)	4,910 (e)	2,740

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

Precipitation

Precipitation measured 174%, 113%, and 155% historic average at Indian Lake, Mayfield, and Conklingville, respectively, as of December 26

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

Station	Monthly Total (inch)	Historic Average (inch)
Indian Lake	5.51	3.16
Mayfield	4.39	3.90
Conklingville	5.91	3.81

HUDSON RIVER AREA - DECEMBER SUMMARY- continued

Operation Overview

Precipitation during the month of December was above average in the Great Sacandaga Lake watershed and above average in the Indian Lake watershed. The monthly inflow to Great Sacandaga Lake and Indian Lake reservoir was approximately 58% and 63% of historic average, respectively. Monthly release of water from Great Sacandaga Lake and Indian Lake measured 98% and 85% of historic average, respectively.

Great Sacandaga Lake Operation

Great Sacandaga Lake operation summary report for the period December 1, 2022 through December 26, 2022 is attached. This report includes projected and forecast values for dates after December 26, 2022.

Hudson River Area Staff Activities

Staff completed routine maintenance and operations activities during the month.

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

BLACK RIVER AREA – DECEMBER SUMMARY

Reservoir Operations

Stillwater Reservoir

The December average daily release from Stillwater Reservoir was approximately 450 cfs. The maximum discharge for the month was 700 cfs.

Table 1.0 - *Stillwater Reservoir Elevation and Release*

Date	Daily Average Elevation (ft,NAVD)	Deviation from Average Elevation (ft) (1)	Release (cfs)
Nov. 30	1668.92	-1.69	400
Dec. 31	1670.3 (e)	-0.6 (e)	700 (e)

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

Sixth Lake Reservoir

The December average daily release from Sixth Lake Reservoir was approximately 100 cfs.

Table 2.0 - *Sixth Lake Reservoir Elevation and Release*

Date	Elevation (1) (ft,NAVD)	Deviation from Average Elevation (2) (ft)	Release (cfs)
Nov. 30	1783.10	-0.21	126
Dec. 31	1780.9 (e)	-1.8 (e)	57 (e)

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

Old Forge Reservoir

The December average daily release from Old Forge Reservoir was approximately 210 cfs.

Table 3.0 - *Old Forge Reservoir Elevation and Release*

Date	Elevation (1) (ft,NAVD)	Deviation from Average Elevation (2) (ft)	Release (cfs)
Nov. 30	1705.02	+0.16	234
Dec. 31	1704.3 (e)	-0.2 (e)	204 (e)

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

BLACK RIVER AREA - DECEMBER SUMMARY - continued

River Flow

The average daily Black River flow, as measured at the Watertown gauge, was approximately 4,110 cfs on December 26.

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

River	Monthly Average Flow (cfs)	Historic Average Flow (1) (cfs)
Moose at McKeever	1,550 (e)	946
Beaver at Croghan	750 (e)	669
Black at Watertown	5,900 (e)	4,690

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

Precipitation

Precipitation measured 56%, 90%, 96% of historic average at Stillwater, Old Forge, and Sixth Lake, respectively, as of December 26.

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

Station	Monthly Total (inch)	Historic Average (inch)
Stillwater	2.40	4.29
Old Forge	4.40	4.58
Sixth Lake	3.34	3.72

BLACK RIVER AREA - DECEMBER SUMMARY - continued

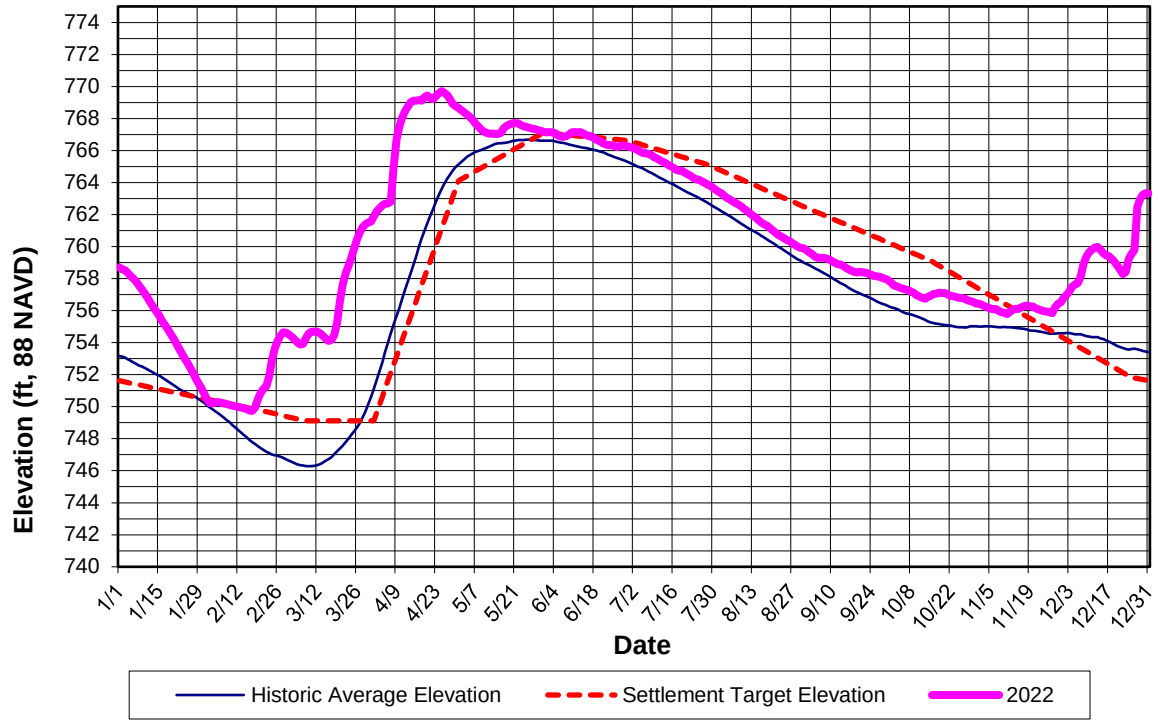
Operation Overview

Precipitation in the month of December was below average at Stillwater and below average at Sixth Lake and Old Forge Reservoir. The monthly inflow to Stillwater Reservoir was approximately 87% of historic average. The inflow to Sixth Lake and Old Forge Reservoir totaled 0.19 and 0.45 billion cubic feet, respectively, in December. Release of water from Stillwater Reservoir averaged 100% of historic discharge.

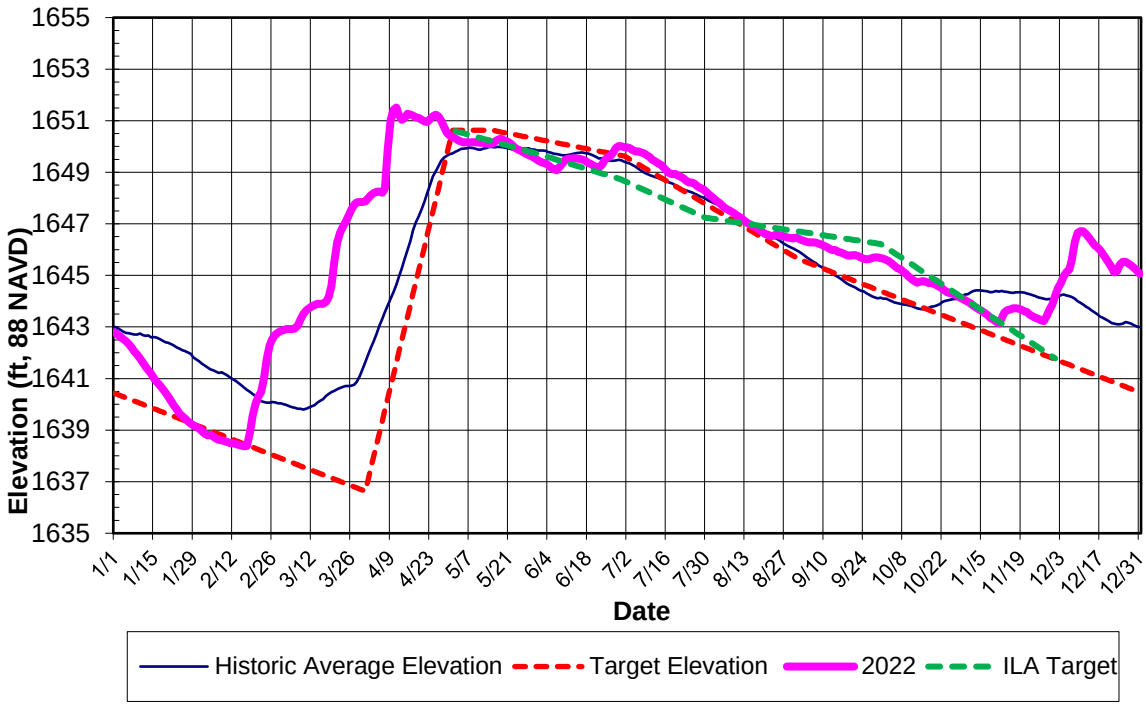
Black River Area Staff Activities

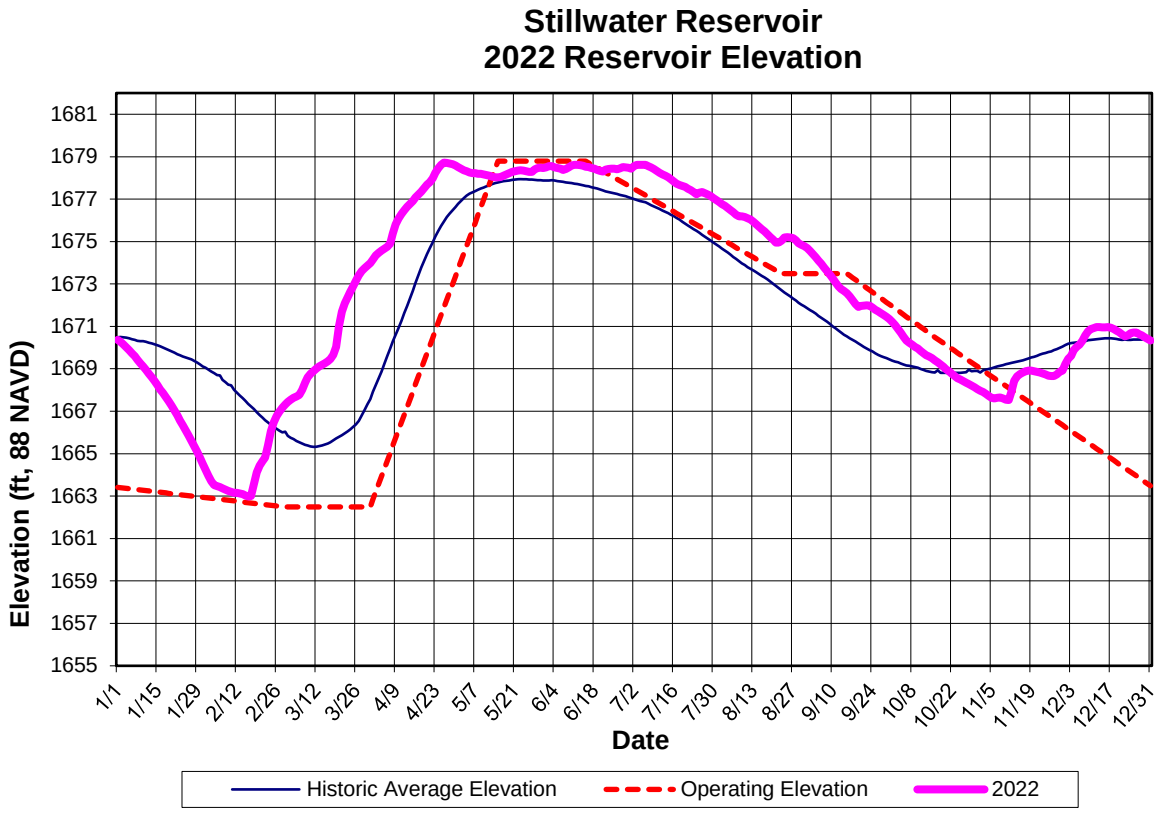
A summary of Regulating District staff activities and work projects at the dam facilities is attached in the Superintendent's Report.

Great Sacandaga Lake
2022 Reservoir Elevation

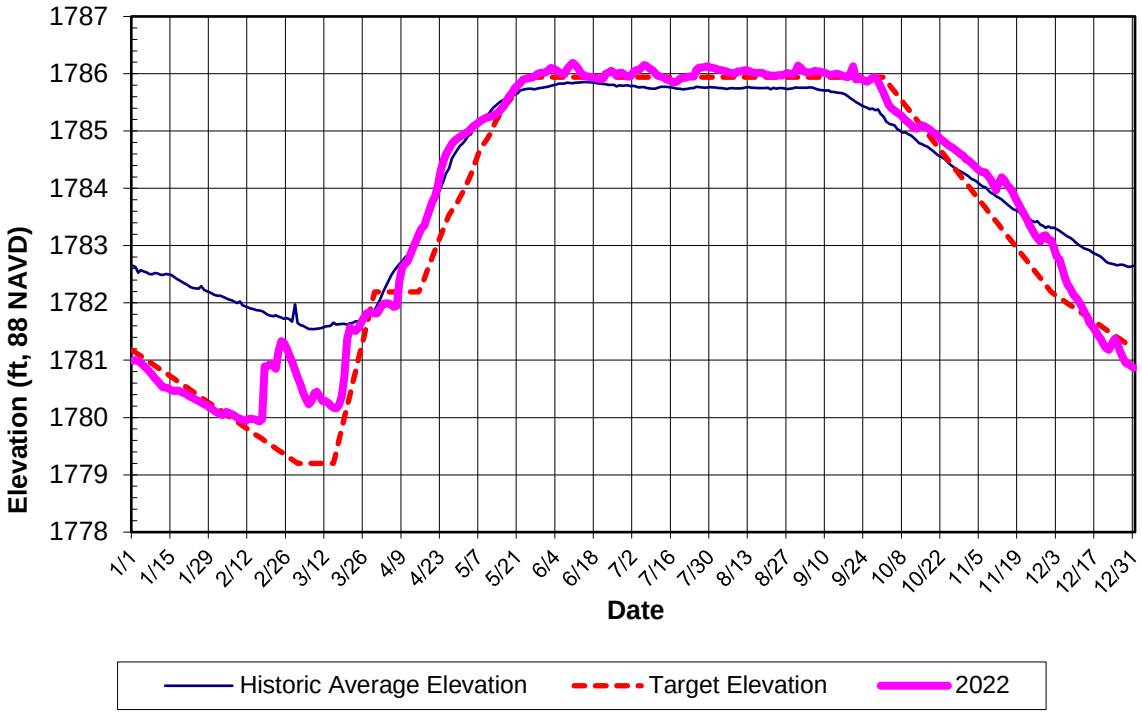


Indian Lake
2022 Reservoir Elevation

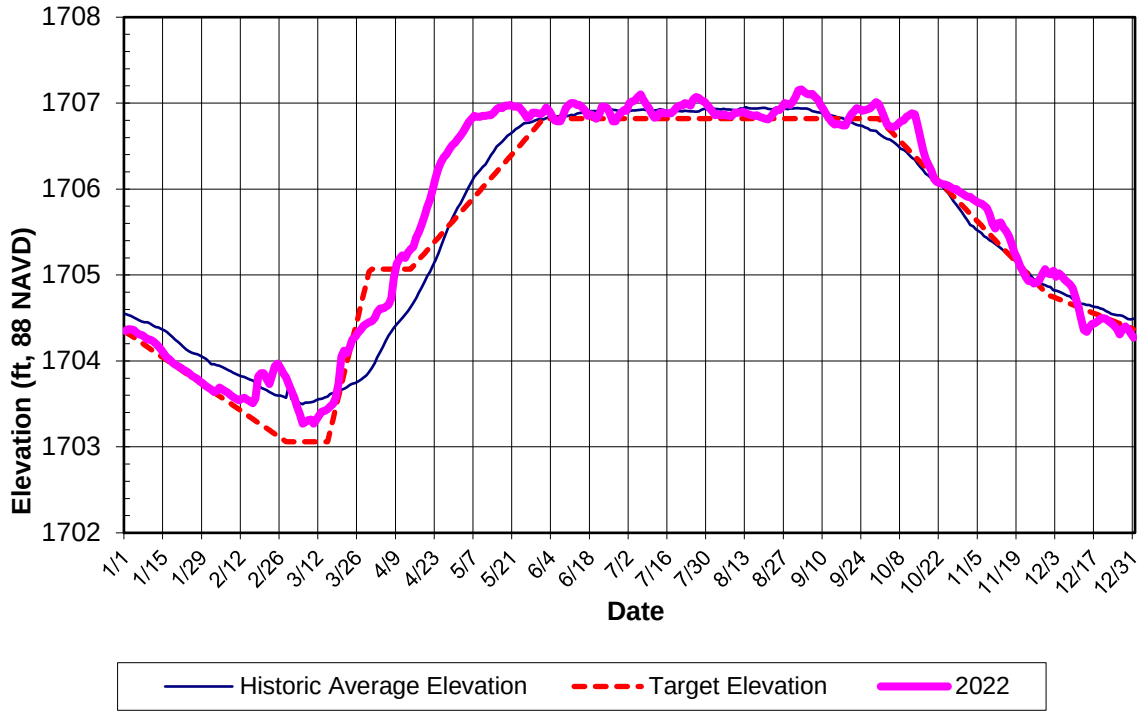



Stillwater Reservoir
2022 Reservoir Elevation
Elevation (ft, 88 NAVD)
1681
1679
1677
1675
1673
1671
1669
1667
1665
1663
1661
1659
1657
1655
1/1
1/15
1/29
2/12
2/26
3/12
3/26
4/9
4/23
5/7
5/21
6/4
6/18
7/2
7/16
7/30
8/13
8/27
9/10
9/24
10/8
10/22
11/5
11/19
12/3
12/17
12/31
Date
Historic Average Elevation
Operating Elevation
2022

Sixth Lake
2022 Reservoir Elevation



Old Forge
2022 Reservoir Elevation



Hudson River Area
Report of the Operations Manager
Sacandaga Field Office at Great Sacandaga Lake
November & December 2022

Activity report for November & December 2022

SFO

- Performed lawn maintenance and general upkeep
- Cleaned offices and conference room weekly
- Performed maintenance on vehicles and equipment
- Cut sign boards and stakes
- Took delivery of rough sawn lumber
- Placed 300 tons of rip rap at Kathan Kamps, permit #8686
- Dug up the septic tank to enable pumping and troubleshoot backup

Indian Lake

- Cleared trees and brush down stream of toe
- Burned brush and driftwood on both ends of the dam

Conklingville Dam

- Read and reported piezometer data including spillway and toe observations daily
- Performed lawn maintenance and general upkeep
- Performed maintenance on vehicles and equipment
- Performed a monthly Dow valve test
- Located areas of future piezometers along the toe
- Assisted M. Mosher with the annual valve flange nut & bolt inspection

Respectfully,

Matthew Ginter

Operations Manager

Black River Area
Report of the Superintendent
Black River Field Office at the Stillwater Reservoir (BRFO)
December 2022

- Road maintenance, snow removal
- Vehicle/equipment maintenance
- Snow removal at facilities
- Worked on operator for dam
- Winterizing mowing equipment
- Worked with engineering staff on Gate #4 repair
- Started work on Gate #4 stem replacement
- Visited Hawkinsville Dam project
- Finished Gate #4 stem replacement
- Removed equipment from dam used for Gate #4
- Facilitated repairs to vehicles (F-250 F-550)
- Traveled to Watertown office/Vanduzee station
- SW staff gauges and Stevens recorder moved to 1988 NAVD (corrected)
- Monitoring continues: piezometers, weirs, profile surveys, seepage sites.
- Misc. gate changes at Stillwater, O.F. & S.L.
- Daily readings Stillwater, O.F. & S.L.

Hawkinsville Dam Remediation – Construction Progress Update

Construction activities during the months of November and December included completion of the east-side concrete abutment and cutoff wall, start of excavation of west-side exiting bank fill, saw cutting of west end of spillway, demolition of existing concrete outlet, start of placement of embankment core material, and winter weather protection of work.

Concrete forms and reinforcing steel at east-side abutment (view east)

Reinforcing steel at east-side abutment and start of concrete form construction for cutoff wall (view north-west)

Concrete forms for abutment and reinforcing steel for cut-off wall at east-side (view north-west)

Concrete forms for abutment and cut-off wall at east-side (view north-west)

Completed concrete abutment and cut-off wall at east-side (view north)

Completed concrete abutment at east-side (view east)

Start of west-side outlet structure concrete demolition and excavation of exiting bank fill (view south)

Saw cutting of west end of spillway (view south)

Sand bag cofferdam upstream of west end of spillway (view south-east)

Excavation at west end of spillway (view south-east)

Excavation at west-side bank (view south-west)

Excavation at west-side bank (view west)

Start of placement of embankment core material (view south-east)

Winter weather protection of embankment core material (view west)

Winter weather protection of embankment core material under 12 inches of snow on December 27, 2022 (view west)

SACANDAGA RESERVOIR ELEVATION CALCULATOR

Datum:
1988 NAVD

Settlement Parameters			
Date	12/27/2022		
Target Elevation	751.76		
Actual "Level"	3.35		
"Level 2.5 threshold"			
"Level 1.2 threshold"	741.15		
Hudson River Target	Elevation	Level	
Maximum Flow (cfs)	8000	8180	Rafting Relase at Abanakee
Minimum Flow (cfs)	n/a	2680	North Crk T, Th, Sa., Su.
Min. Rec/Rafting Hours (hrs)	#VALUE!		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	12/27/2022
Day of Year	5840
Starting Elevation (ft)	759.94
Average Elevation	759.99
Flow Below Hadley (cfs)	8300
Todays Release	1800
Tomorrows Release	2000

759.99

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 + raffting)
TO BE CHANGED
Spillway Crest 770.12 ft 88 NAVD

Starting Date 12:00 AM	Starting Elevation	Net Average Inflow	Sacandaga River Flow: E.J. West	Valves	Spillway	Average Release	Maximum (Table F - Elev.)	Settlement Level	Hudson at Hadley	Hudson River Below Confluence	Hudson River Target Flow: Minimum (Table C - Level)	Maximum (Table D - Elev.)	Maximum (Table E - Level)	Ending Elevation	Ending Date 12:00 AM	Ft. Ed. Flow	Daily Average Elevation	Settlement Target Elevation	Historic Daily Average Elev.
12/1/2022	756.71	5000	2860	0	0	2860	4000	3.14	5350	8210	2280	8000	7780	756.89	12/2/2022		756.80	754.29	754.58
12/2/2022	756.89	3600	2110	0	0	2110	4000	3.16	5180	7290	2320	8000	7820	757.01	12/3/2022		756.95	754.18	754.60
12/3/2022	757.01	6300	2550	0	0	2550	4000	3.18	4620	7170	2360	8000	7860	757.33	12/4/2022		757.17	754.08	754.60
12/4/2022	757.33	5100	2630	0	0	2630	4000	3.19	4940	7570	2380	8000	7880	757.54	12/5/2022		757.44	753.98	754.58
12/5/2022	757.54	4500	3340	0	0	3340	4000	3.20	4520	7860	2400	8000	7900	757.63	12/6/2022		757.59	753.88	754.54
12/6/2022	757.63	5400	3220	0	0	3220	4000	3.21	4070	7290	2420	8000	7920	757.81	12/7/2022		757.72	753.77	754.53
12/7/2022	757.81	11500	1640	0	0	1640	4000	3.24	6100	7740	2480	8000	7980	758.64	12/8/2022		758.23	753.67	754.52
12/8/2022	758.64	8600	1440	0	0	1440	4000	3.29	7150	8590	2580	8000	8080	759.23	12/9/2022		758.94	753.57	754.46
12/9/2022	759.23	4300	999	0	0	999	4000	3.30	7120	8119	2600	8000	8100	759.50	12/10/2022		759.37	753.47	754.41
12/10/2022	759.50	4200	1550	0	0	1550	4000	3.28	6360	7910	2560	8000	8060	759.72	12/11/2022		759.61	753.36	754.37
12/11/2022	759.72	4000	2160	0	0	2160	4000	3.32	5480	7640	2640	8000	8140	759.87	12/12/2022		759.80	753.26	754.34
12/12/2022	759.87	3800	2490	0	0	2490	4000	3.35	4920	7410	2700	8000	8200	759.97	12/13/2022		759.92	753.16	754.33
12/13/2022	759.97	2000	2990	0	0	2990	4000	3.36	4290	7280	2720	8000	8220	759.88	12/14/2022		759.93	753.05	754.33
12/14/2022	759.88	1700	4030	0	0	4030	4000	3.35	3760	7790	2700	8000	8200	759.68	12/15/2022		759.78	752.95	754.26
12/15/2022	759.68	2000	3960	0	0	3960	4000	3.35	3450	7410	2680	8000	8180	759.51	12/16/2022		759.60	752.85	754.21
12/16/2022	759.51	3300	3970	0	0	3970	4000	3.34	3410	7380	2680	8000	8180	759.45	12/17/2022		759.48	752.75	754.13
12/17/2022	759.45	2600	3960	0	0	3960	4000	3.34	3430	7390	2660	8000	8160	759.33	12/18/2022		759.39	752.64	754.05
12/18/2022	759.33	1700	3960	0	0	3960	4000	3.33	3360	7320	2660	8000	8160	759.14	12/19/2022		759.24	752.54	753.97
12/19/2022	759.14	900	3960	0	0	3960	4000	3.32	3120	7080	2640	8000	8140	758.88	12/20/2022		759.01	752.44	753.87
12/20/2022	758.88	1400	3960	0	0	3960	4000	3.31	2900	6860	2620	8000	8120	758.66	12/21/2022		758.77	752.33	753.77
12/21/2022	758.66	1200	3950	0	0	3950	4000	3.34	2630	6580	2660	8000	8160	758.42	12/22/2022		758.54	752.23	753.70
12/22/2022	758.42	500	3990	0	0	3990	4000	3.36	2630	6620	2720	8000	8220	758.12	12/23/2022		758.27	752.13	753.65
12/23/2022	758.12	14700	4030	0	0	4030	4000	3.38	4640	8670	2760	8000	8260	759.01	12/24/2022		758.57	752.03	753.59
12/24/2022	759.01	5600	498	0	0	498	4000	3.41	8320	8818	2800	8000	8300	759.43	12/25/2022		759.22	751.92	753.55
12/25/2022	759.43	3800	409	0	0	409	4000	3.41	7550	7959	2820	8000	8320	759.71	12/26/2022		759.57	751.82	753.59
12/26/2022	759.71	3200	409	0	0	409	4000	3.47	6980	7389	2940	8000	8440	759.94	12/27/2022		759.83	751.79	753.64
12/27/2022	759.94	2900	1800	0	0	1800	4000	3.51	6500	8300	3020	8000	8900	760.03	12/28/2022		759.99	751.76	753.61
12/28/2022	760.03	2700	2000	0	0	2000	4000	3.52	5900	7900	3040	8000	9300	760.08	12/29/2022		760.06	751.73	753.57
12/29/2022	760.08	2500	2500	0	0	2500	4000	3.53	5100	7600	3040	8000	9300	760.08	12/30/2022		760.08	751.70	753.52
12/30/2022	760.08	2300	3000	0	0	3000	4000	3.55	4500	7500	3100	8000	10500	760.02	12/31/2022		760.05	751.67	753.48
12/31/2022	760.02	2100	3500	0	0	3500	4000	3.55	4000	7500	3100	8000	10500	759.90	1/1/2023		759.96	751.65	753.45
1/1/2023	759.90	1900	4000	0	0	4000	4000	3.55	3500	7500	3100	32000	10500	777.12	**1/2/2022**			751.58	753.27
6/6/2020	**767.29**	1000	4000	0	0	4000	5487	3.00	3000	7000	2000	8000	7500	777.12	**3/15/2019**			#N/A	#N/A

Signature:_____

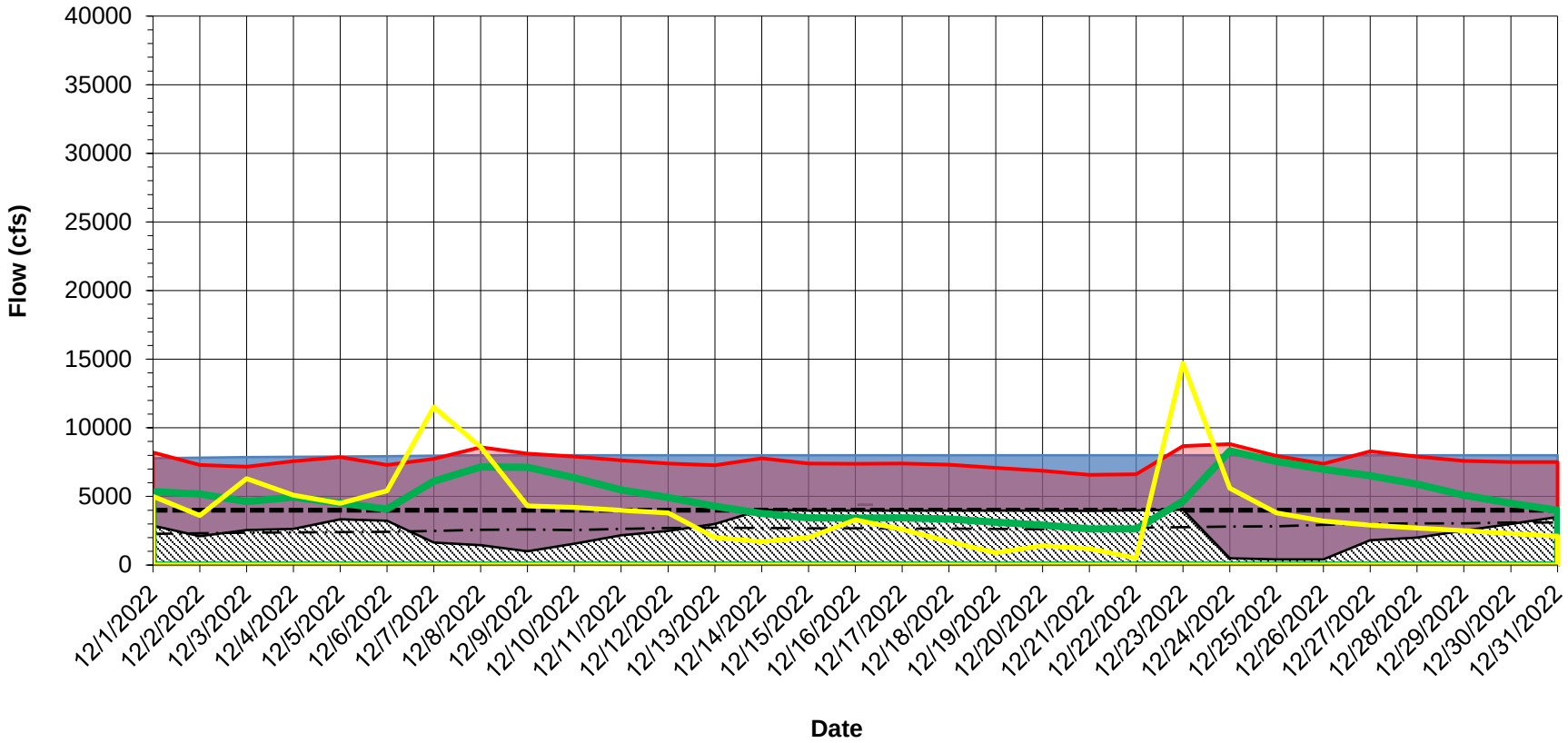
Date:_____

GREAT SACANDAGA LAKE
RESERVOIR OPERATION SUMMARY

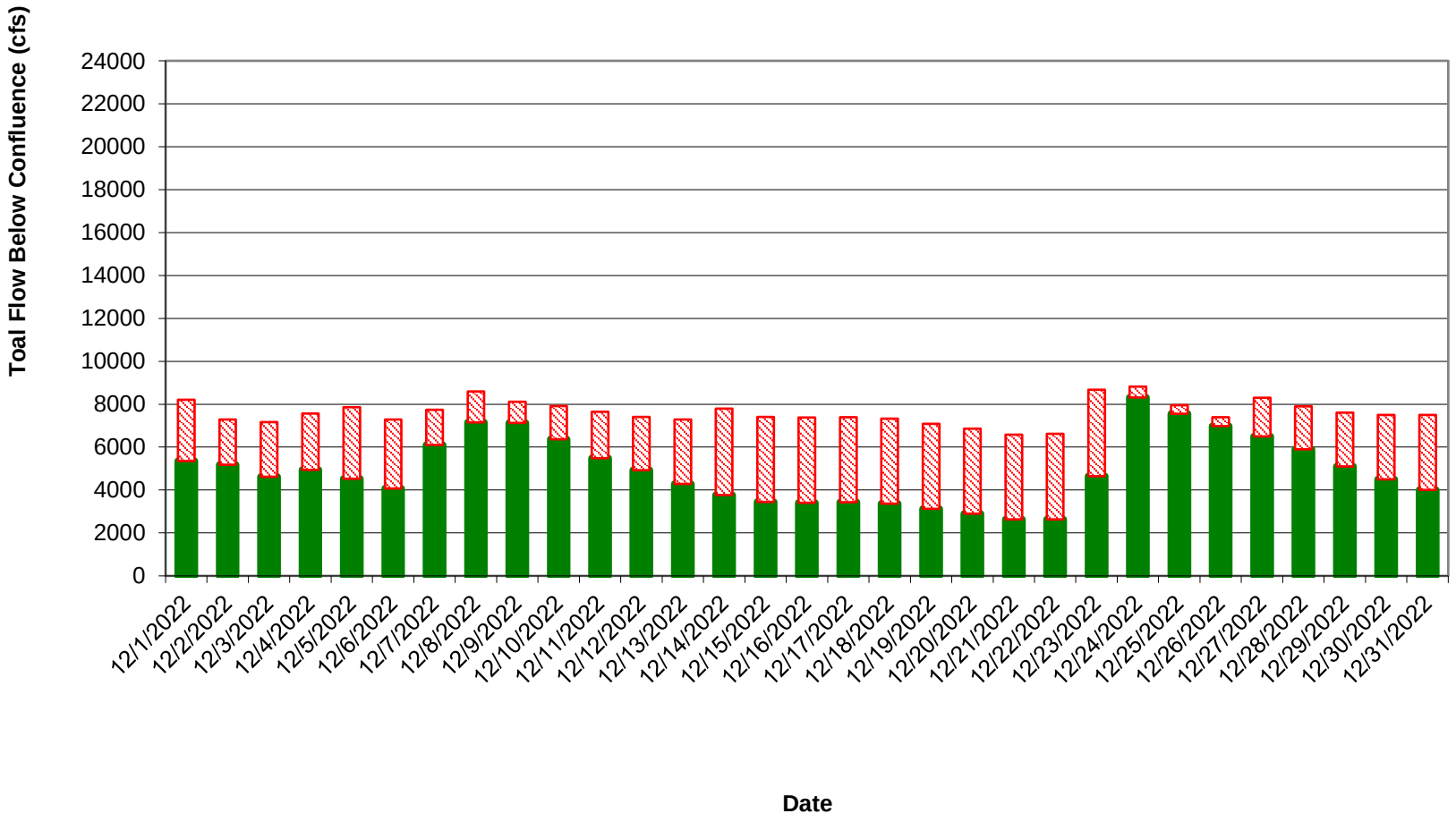
Print Date: 12/27/2022
Period of Record: 12/1/2022 to 12/29/2022

Starting Date 12:00 AM	Daily Avg. Elevation	Net Average Inflow	**Sacandaga River Flow** Average Release	Maximum (Table F - Elev.)	Settlement Level	Hudson at Hadley	Hudson River Below Confluence	**Hudson River Target Flow** Minimum (Table B - Level)	Maximum (Table D & E)	Maximum Allowable Sacandaga
12/1/2022	756.80	5000	2860	4000	3.14	5350	8210	2280	7780	4000
12/2/2022	756.95	3600	2110	4000	3.16	5180	7290	2320	7820	4000
12/3/2022	757.17	6300	2550	4000	3.18	4620	7170	2360	7860	4000
12/4/2022	757.44	5100	2630	4000	3.19	4940	7570	2380	7880	4000
12/5/2022	757.59	4500	3340	4000	3.20	4520	7860	2400	7900	4000
12/6/2022	757.72	5400	3220	4000	3.21	4070	7290	2420	7920	4000
12/7/2022	758.23	11500	1640	4000	3.24	6100	7740	2480	7980	4000
12/8/2022	758.94	8600	1440	4000	3.29	7150	8590	2580	8000	4000
12/9/2022	759.37	4300	999	4000	3.30	7120	8119	2600	8000	4000
12/10/2022	759.61	4200	1550	4000	3.28	6360	7910	2560	8000	4000
12/11/2022	759.80	4000	2160	4000	3.32	5480	7640	2640	8000	4000
12/12/2022	759.92	3800	2490	4000	3.35	4920	7410	2700	8000	4000
12/13/2022	759.93	2000	2990	4000	3.36	4290	7280	2720	8000	4000
12/14/2022	759.78	1700	4030	4000	3.35	3760	7790	2700	8000	4000
12/15/2022	759.60	2000	3960	4000	3.35	3450	7410	2680	8000	4000
12/16/2022	759.48	3300	3970	4000	3.34	3410	7380	2680	8000	4000
12/17/2022	759.39	2600	3960	4000	3.34	3430	7390	2660	8000	4000
12/18/2022	759.24	1700	3960	4000	3.33	3360	7320	2660	8000	4000
12/19/2022	759.01	900	3960	4000	3.32	3120	7080	2640	8000	4000
12/20/2022	758.77	1400	3960	4000	3.31	2900	6860	2620	8000	4000
12/21/2022	758.54	1200	3950	4000	3.34	2630	6580	2660	8000	4000
12/22/2022	758.27	500	3990	4000	3.36	2630	6620	2720	8000	4000
12/23/2022	758.57	14700	4030	4000	3.38	4640	8670	2760	8000	4000
12/24/2022	759.22	5600	498	4000	3.41	8320	8818	2800	8000	4000
12/25/2022	759.57	3800	409	4000	3.41	7550	7959	2820	8000	4000
12/26/2022	759.83	3200	409	4000	3.47	6980	7389	2940	8000	4000
12/27/2022	759.99	2900	1800	4000	3.51	6500	8300	3020	8000	4000
12/28/2022	760.06	2700	2000	4000	3.52	5900	7900	3040	8000	4000
12/29/2022	760.08	2500	2500	4000	3.53	5100	7600	3040	8000	4000
12/30/2022	760.05	2300	3000	4000	3.55	4500	7500	3100	8000	4000
12/31/2022	759.96	2100	3500	4000	3.55	4000	7500	3100	8000	4000

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



Great Sacandaga Lake
GSL Release and Natural Hudson River Flow



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

Monthly Report for: November 2022

Day	Sacandaga Reservoir Elevation Average Daily	Sacandaga Reservoir Elevation Midnight	Sacandaga River Near Hope cfs	Reservoir Inflow Hope x 2.0520 cfs	Sacandaga River at Stewarts Bridge cfs	Hudson River at Hadley cfs	Regulated Hudson River below confluence cfs
1	756.44	756.43	260	534	1090	1020	2110
2	756.36	756.46	252	517	1210	979	2189
3	756.29	756.36	195	400	1080	913	1993
4	756.21	756.23	225	462	1260	862	2122
5	756.15	756.18	175	359	1170	820	1990
6	756.08	756.13	216	443	1150	831	1981
7	756.10	756.12	301	618	1090	910	2000
8	755.98	756.04	353	724	1120	894	2014
9	755.91	755.89	249	511	1170	865	2035
10	755.86	755.89	293	601	1180	853	2033
11	755.79	755.85	260	534	1270	880	2150
12	755.92	755.81	1340	2750	1180	1450	2630
13	756.06	756.05	1450	2975	1200	2760	3960
14	756.12	756.13	1170	2401	1270	3250	4520
15	756.11	756.13	947	1943	1220	2810	4030
16	756.21	756.04	857	1759	1210	2500	3710
17	756.28	756.22	763	1566	1180	2300	3480
18	756.32	756.22	662	1358	1180	2070	3250
19	756.26	756.32	572	1174	1410	1880	3290
20	756.27	756.32	516	1059	1420	1710	3130
21	756.17	756.25	448	919	1390	1520	2910
22	756.09	756.22	460	944	1390	1510	2900
23	756.03	756.12	440	903	1400	1490	2890
24	755.96	756.02	400	821	1400	1440	2840
25	755.95	755.98	387	794	1410	1400	2810
26	755.90	755.97	481	987	1410	1400	2810
27	755.85	755.88	600	1231	1400	1450	2850
28	756.20	756.00	800	1642	1400	2470	3870
29	756.43	756.36	2550	5233	3830	3590	7420
30	756.52	756.41	2410	4945	3840	3710	7550
AVERAGE			670	1370	1430	1680	3120

CHANGE IN STORAGE DURING THE MONTH -0.02 B.C.F

CHIEF ENGINEER

88 NAVD

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

Monthly Report for: November, 2022

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	1643.91	1643.95	23	220	139	731
2	1643.82	1643.86	19588	220	133	664
3	1643.75	1673.76	-19433	219	125	609
4	1643.67	1643.71	71	219	118	587
5	1643.61	1643.63	126	219	112	565
6	1643.54	1643.58	89	219	108	559
7	1643.47	1643.51	-22	219	115	563
8	1643.35	1643.38	69	217	137	565
9	1643.29	1643.30	180	217	143	565
10	1643.21	1643.28	-5	217	138	561
11	1643.14	1643.16	256	219	136	586
12	1643.33	1643.18	779	223	265	1240
13	1643.56	1643.48	497	219	752	2320
14	1643.65	1643.63	275	219	769	2260
15	1643.68	1643.66	275	219	606	1840
16	1643.72	1643.69	256	219	503	1560
17	1643.72	1643.71	248	219	434	1420
18	1643.71	1643.72	171	219	368	1250
19	1643.66	1643.70	108	219	314	1120
20	1643.62	1643.64	89	219	273	1010
21	1643.58	1643.57	88	218	250	942
22	1643.48	1643.50	198	217	246	900
23	1643.41	1643.49	-24	217	226	870
24	1643.35	1643.37	180	217	206	829
25	1643.31	1643.35	50	217	194	803
26	1643.26	1643.25	161	217	188	820
27	1643.23	1643.22	311	218	188	866
28	1643.42	1643.27	757	220	290	1710
29	1643.67	1643.56	605	219	477	2310
30	1643.87	1643.76	656	223	495	2280
AVERAGE			221	219	282	1097

CHANGE IN STORAGE DURING THE MONTH 0.005 B.C.F

CHIEF ENGINEER

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

Monthly Report for: November 2022

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	1667.97	1668.00	166	300	285	393	1610
2	1667.90	1667.93	166	300	285	375	1620
3	1667.81	1667.86	147	300	278	354	1520
4	1667.73	1667.78	90	300	270	328	1520
5	1667.64	1667.67	147	300	269	341	1510
6	1667.60	1667.59	434	300	278	351	1540
7	1667.63	1667.66	300	300	280	356	1540
8	1667.65	1667.66	243	300	271	428	2090
9	1667.61	1667.63	185	300	267	418	2050
10	1667.55	1667.57	262	300	255	455	2060
11	1667.53	1667.55	338	300	299	447	2050
12	1667.91	1667.57	1582	300	1370	1050	4850
13	1668.43	1668.24	931	300	1780	1700	7920
14	1668.64	1668.57	568	300	1140	1110	8310
15	1668.75	1668.71	453	300	925	779	7870
16	1668.83	1668.79	434	300	894	662	6870
17	1668.88	1668.86	415	300	889	552	5790
18	1668.92	1668.92	377	358	821	406	5050
19	1668.92	1668.93	343	400	628	514	4060
20	1668.88	1668.90	381	400	496	712	4050
21	1668.86	1668.89	285	400	484	544	3540
22	1668.82	1668.83	343	400	498	482	3300
23	1668.78	1668.80	323	400	483	492	3130
24	1668.73	1668.76	285	400	501	541	3140
25	1668.67	1668.70	362	400	534	545	3230
26	1668.66	1668.68	362	400	706	625	4020
27	1668.66	1668.66	438	400	771	702	4450
28	1668.74	1668.68	649	400	1410	804	5230
29	1668.85	1668.81	534	400	1750	872	6130
30	1668.92	1668.88	687	400	1450	861	6750
AVERAGE			408	342	690	610	3890

CHANGE IN STORAGE DURING THE MONTH 0.17 B.C.F.

CHIEF ENGINEER

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

Monthly Report for: November, 2022

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow cfs	Gate Opening (ft)		Reservoir Release (cfs)
				Gate A	Gate B	
1	1784.49	1784.49	16	0.25	0.25	27
2	1784.44	1784.46	7	0.25	0.25	26
3	1784.40	1784.41	11	0.25	0.25	26
4	1784.35	1784.37	7	0.25	0.25	26
5	1784.31	1784.32	4	0.25	0.25	26
6	1784.28	1784.26	44	0.25	0.25	26
7	1784.28	1784.31	14	0.42	0.42	36
8	1784.22	1784.25	17	0.42	0.42	42
9	1784.15	1784.18	24	0.42	0.42	42
10	1784.07	1784.13	14	0.67	0.67	53
11	1783.97	1784.02	34	0.67	0.67	63
12	1784.10	1783.94	149	0.67	0.67	63
13	1784.19	1784.18	60	0.67	0.67	64
14	1784.14	1784.17	42	0.67	0.67	64
15	1784.06	1784.11	31	0.67	0.67	63
16	1784.01	1784.02	49	0.67	0.67	63
17	1783.93	1783.98	30	0.67	0.67	62
18	1783.83	1783.89	18	0.67	0.67	62
19	1783.74	1783.77	32	0.67	0.67	61
20	1783.65	1783.69	32	0.67	0.67	61
21	1783.56	1783.61	28	0.67	0.67	60
22	1783.47	1783.52	23	0.67	0.67	59
23	1783.37	1783.42	27	0.67	0.67	59
24	1783.28	1783.33	22	0.67	0.67	58
25	1783.20	1783.23	36	0.67	0.67	58
26	1783.13	1783.17	33	0.67	0.67	58
27	1783.07	1783.10	58	0.67	0.67	58
28	1783.17	1783.10	111	1.00	1.00	75
29	1783.18	1783.20	62	1.00	1.00	80
30	1783.10	1783.15	108	2.00	2.00	126
AVERAGE			38			55

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

CHIEF ENGINEER

88 NAVD

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

Monthly Report for: November, 2022

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow cfs	Gate Opening (ft)		Reservoir Release (cfs)
				Gate A	Gate B	
1	1705.91	1705.93	35	0.58	0.58	65
2	1705.91	1705.91	50	0.58	0.58	65
3	1705.88	1705.90	35	0.58	0.58	65
4	1705.86	1705.88	5	0.58	0.58	65
5	1705.84	1705.85	35	0.58	0.58	65
6	1705.83	1705.83	170	0.58	0.58	65
7	1705.81	1705.89	107	1.50	1.50	122
8	1705.78	1705.88	51	1.50	1.50	156
9	1705.70	1705.82	66	1.50	1.50	156
10	1705.60	1705.75	49	2.17	2.17	184
11	1705.54	1705.66	155	2.17	2.17	200
12	1705.60	1705.63	350	2.17	2.17	200
13	1705.61	1705.73	126	2.17	2.17	201
14	1705.55	1705.68	140	2.17	2.17	200
15	1705.51	1705.64	109	2.17	2.17	199
16	1705.45	1705.59	93	2.17	2.17	198
17	1705.36	1705.51	91	2.17	2.17	196
18	1705.26	1705.44	-2	2.17	2.17	194
19	1705.19	1705.32	103	2.17	2.17	193
20	1705.10	1705.25	116	2.17	2.17	191
21	1705.05	1705.20	8	2.17	2.17	189
22	1704.98	1705.09	128	2.17	2.17	188
23	1704.93	1705.05	61	1.00	1.00	136
24	1704.93	1704.99	84	1.00	1.00	99
25	1704.90	1704.98	84	1.00	1.00	99
26	1704.91	1704.97	114	1.00	1.00	99
27	1704.94	1704.98	144	1.00	1.00	99
28	1705.01	1705.01	263	1.50	1.50	128
29	1705.07	1705.10	207	1.50	1.50	147
30	1705.02	1705.14	144	4.00	4.00	234
AVERAGE			104			147

CHANGE IN STORAGE DURING THE MONTH -0.110 B.C.F

CHIEF ENGINEER

88 NAVD

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

SACANDAGA RESERVOIR OPERATION

FOR WEEK ENDING: December 3, 2022

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 26	755.97	22.43	12 AM - Mid	1,410	1,400	2,810
Sunday 27	755.88	22.34	12 AM - Mid	1,400	1,450	2,850
Monday 28	756.00	22.45	12 AM - Mid	1,400	2,470	3,870
Tuesday 29	756.36	22.81	12 AM - Mid	3,830	3,590	7,420
Wednesday 30	756.41	22.86	12 AM - Mid	3,840	3,710	7,550
Thursday 1	756.71	23.16	12 AM - Mid	2,860	5,350	8,210
Friday 2	756.93	23.38	12 AM - Mid	2,110	5,180	7,290
Saturday 3	756.95	23.40	12 AM - Mid	2,550	4,620	7,170
CHANGE IN STORAGE DURING THE WEEK		0.98				

* SACANDAGA RIVER AT STEWARTS BRIDGE INCLUDES 350 CFS MINIMUM CONTINUOUS RELEASE

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2019	765.23	32.17	6	2016	755.62	22.08
2	2018	761.84	28.48	7	2015	755.15	21.61
3	2021	760.56	27.11	8	2020	754.98	21.45
4	2022	756.95	23.40	9	2013	754.43	20.91
5	2017	755.68	22.14	10	2014	754.36	20.85

CAPACITY AT SPILLWAY CREST (EL 770.12) 37.72 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 734.12) 4.60 B.C.F.

(1) Includes dead storage below El. 734.12 ft.
Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

SACANDAGA RESERVOIR OPERATION

FOR WEEK ENDING: December 10, 2022

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 3	756.95	23.40	12 AM - Mid	2,550	4,620	7,170
Sunday 4	757.28	23.74	12 AM - Mid	2,630	4,940	7,570
Monday 5	757.57	24.03	12 AM - Mid	3,340	4,520	7,860
Tuesday 6	757.74	24.20	12 AM - Mid	3,220	4,070	7,290
Wednesday 7	757.81	24.26	12 AM - Mid	1,640	6,100	7,740
Thursday 8	758.57	25.05	12 AM - Mid	1,440	7,150	8,590
Friday 9	759.22	25.72	12 AM - Mid	999	7,120	8,119
Saturday 10	759.48	25.99	12 AM - Mid	1,550	6,360	7,910
CHANGE IN STORAGE DURING THE WEEK		2.58				

* SACANDAGA RIVER AT STEWARTS BRIDGE INCLUDES 350 CFS MINIMUM CONTINUOUS RELEASE

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2019	764.03	30.85	6	2017	754.71	21.19
2	2018	762.39	29.07	7	2015	754.40	20.89
3	2021	759.98	26.51	8	2020	754.03	20.53
4	2022	759.48	25.99	9	2014	753.93	20.43
5	2016	755.01	21.48	10	2013	753.28	19.81

CAPACITY AT SPILLWAY CREST (EL 770.12) 37.72 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 734.12) 4.60 B.C.F.

(1) Includes dead storage below El. 734.12 ft.
Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

SACANDAGA RESERVOIR OPERATION

FOR WEEK ENDING: December 17, 2022

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 10	759.48	25.99	12 AM - Mid	1,550	6,360	7,910
Sunday 11	759.73	26.25	12 AM - Mid	2,160	5,480	7,640
Monday 12	759.89	26.42	12 AM - Mid	2,490	4,920	7,410
Tuesday 13	759.96	26.49	12 AM - Mid	2,990	4,290	7,280
Wednesday 14	759.87	26.39	12 AM - Mid	4,030	3,760	7,790
Thursday 15	759.67	26.19	12 AM - Mid	3,960	3,450	7,410
Friday 16	759.51	26.02	12 AM - Mid	3,970	3,410	7,380
Saturday 17	759.51	26.02	12 AM - Mid	3,960	3,430	7,390
CHANGE IN STORAGE DURING THE WEEK		0.03				

* SACANDAGA RIVER AT STEWARTS BRIDGE INCLUDES 350 CFS MINIMUM CONTINUOUS RELEASE

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2019	765.06	31.98	6	2015	753.20	19.73
2	2021	761.32	27.92	7	2017	752.85	19.40
3	2018	761.01	27.59	8	2014	752.74	19.29
4	2022	759.51	26.02	9	2013	752.67	19.23
5	2016	753.70	20.21	10	2020	752.61	19.17

CAPACITY AT SPILLWAY CREST (EL 770.12) 37.72 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 734.12) 4.60 B.C.F.

(1) Includes dead storage below El. 734.12 ft.
Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

SACANDAGA RESERVOIR OPERATION

FOR WEEK ENDING: December 24, 2022

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 17	759.51	26.02	12 AM - Mid	3,960	3,430	7,390
Sunday 18	759.30	25.80	12 AM - Mid	3,960	3,360	7,320
Monday 19	759.18	25.68	12 AM - Mid	3,960	3,120	7,080
Tuesday 20	758.86	25.35	12 AM - Mid	3,960	2,900	6,860
Wednesday 21	758.65	25.13	12 AM - Mid	3,950	2,630	6,580
Thursday 22	758.41	24.88	12 AM - Mid	3,990	2,630	6,620
Friday 23	758.12	24.58	12 AM - Mid	4,030	4,640	8,670
Saturday 24	759.12	25.61	12 AM - Mid	498	8,320	8,818
CHANGE IN STORAGE DURING THE WEEK		-0.41				

* SACANDAGA RIVER AT STEWARTS BRIDGE INCLUDES 350 CFS MINIMUM CONTINUOUS RELEASE

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2019	764.06	30.88	6	2016	753.63	20.14
2	2018	763.18	29.92	7	2015	753.12	19.65
3	2021	760.21	26.75	8	2014	752.34	18.91
4	2022	759.12	25.61	9	2017	752.07	18.66
5	2013	753.92	20.42	10	2020	751.83	18.43

CAPACITY AT SPILLWAY CREST (EL 770.12) 37.72 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 734.12) 4.60 B.C.F.

(1) Includes dead storage below El. 734.12 ft.
Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

INDIAN LAKE RESERVOIR OPERATION

FOR WEEK ENDING: December 3, 2022

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 26	1,643.25	2.32	12 AM - Mid	216	188	820
Sunday 27	1,643.22	2.31	12 AM - Mid	215	188	866
Monday 28	1,643.27	2.32	12 AM - Mid	215	290	1,710
Tuesday 29	1,643.56	2.37	12 AM - Mid	214	477	2,310
Wednesday 30	1,643.76	2.40	12 AM - Mid	213	495	2,280
Thursday 1	1,643.98	2.44	12 AM - Mid	212	675	3,370
Friday 2	1,644.40	2.51	12 AM - Mid	212	751	3,060
Saturday 3	1,644.57	2.54	12 AM - Mid	212	647	2,520
CHANGE IN STORAGE DURING THE WEEK		0.22				

* INIDAN RIVER NEAR INDIAN LAKE

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2016	1,645.69	2.73	6	2015	1,644.00	2.44
2	2022	1,644.57	2.54	7	2021	1,643.71	2.39
3	2019	1,644.57	2.54	8	2013	1,643.03	2.28
4	2020	1,644.47	2.52	9	2014	1,641.98	2.12
5	2018	1,644.44	2.52	10	2017	1,641.14	1.98

CAPACITY AT SPILLWAY CREST (EL 1651.01) 3.7 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

INDIAN LAKE RESERVOIR OPERATION

FOR WEEK ENDING: December 10, 2022

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 3	1,644.57	2.54	12 AM - Mid	212	647	2,520
Sunday 4	1,644.77	2.57	12 AM - Mid	212	634	2,580
Monday 5	1,645.06	2.62	12 AM - Mid	212	598	2,340
Tuesday 6	1,645.17	2.64	12 AM - Mid	277	523	2,100
Wednesday 7	1,645.34	2.67	12 AM - Mid	318	609	2,870
Thursday 8	1,645.98	2.78	12 AM - Mid	318	1,250	4,530
Friday 9	1,646.54	2.87	12 AM - Mid	473	1,350	4,380
Saturday 10	1,646.70	2.90	12 AM - Mid	546	1,030	3,500
CHANGE IN STORAGE DURING THE WEEK		0.36				

* INIDAN RIVER NEAR INDIAN LAKE

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2022	1,646.70	2.90	6	2020	1,643.18	2.31
2	2016	1,646.69	2.90	7	2019	1,642.89	2.26
3	2018	1,643.96	2.44	8	2013	1,641.91	2.10
4	2021	1,643.60	2.37	9	2017	1,641.54	2.05
5	2015	1,643.29	2.33	10	2014	1,641.46	2.03

CAPACITY AT SPILLWAY CREST (EL 1651.01) 3.7 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

INDIAN LAKE RESERVOIR OPERATION

FOR WEEK ENDING: December 17, 2022

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 10	1,646.70	2.90	12 AM - Mid	546	1,030	3,500
Sunday 11	1,646.71	2.90	12 AM - Mid	546	746	2,710
Monday 12	1,646.66	2.90	12 AM - Mid	546	588	2,330
Tuesday 13	1,646.54	2.87	12 AM - Mid	546	455	1,990
Wednesday 14	1,646.40	2.85	12 AM - Mid	546	389	1,800
Thursday 15	1,646.24	2.82	12 AM - Mid	546	332	1,630
Friday 16	1,646.09	2.80	12 AM - Mid	546	315	1,620
Saturday 17	1,646.08	2.80	12 AM - Mid	545	314	1,660
CHANGE IN STORAGE DURING THE WEEK		-0.11				

* INIDAN RIVER NEAR INDIAN LAKE

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2016	1,647.14	2.98	6	2015	1,642.40	2.18
2	2022	1,646.08	2.80	7	2020	1,641.76	2.08
3	2021	1,644.28	2.49	8	2014	1,641.29	2.01
4	2018	1,642.77	2.24	9	2013	1,640.86	1.94
5	2019	1,642.68	2.23	10	2017	1,640.78	1.92

CAPACITY AT SPILLWAY CREST (EL 1651.01) 3.7 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

INDIAN LAKE RESERVOIR OPERATION

FOR WEEK ENDING: December 24, 2022

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 17	1,646.08	2.80	12 AM - Mid	545	314	1,660
Sunday 18	1,645.91	2.77	12 AM - Mid	545	303	1,610
Monday 19	1,645.73	2.74	12 AM - Mid	545	275	1,510
Tuesday 20	1,645.56	2.71	12 AM - Mid	545	249	1,420
Wednesday 21	1,645.39	2.68	12 AM - Mid	545	227	1,350
Thursday 22	1,645.21	2.65	12 AM - Mid	544	213	1,330
Friday 23	1,645.04	2.62	12 AM - Mid	544	284	2,310
Saturday 24	1,645.29	2.66	12 AM - Mid	544	843	4,750
CHANGE IN STORAGE DURING THE WEEK		-0.13				

* INIDAN RIVER NEAR INDIAN LAKE

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2016	1,647.80	3.10	6	2013	1,642.11	2.14
2	2022	1,645.29	2.66	7	2019	1,641.14	1.98
3	2018	1,644.36	2.50	8	2014	1,641.12	1.98
4	2021	1,643.72	2.40	9	2020	1,641.03	1.96
5	2015	1,642.51	2.20	10	2017	1,640.74	1.92

CAPACITY AT SPILLWAY CREST (EL 1651.01) 3.7 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

STILLWATER RESERVOIR OPERATION

FOR WEEK ENDING: December 3, 2022

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 26	1,668.68	2.33	12 AM -Mid	400	604	4,020
Sunday 27	1,668.66	2.33	12 AM -Mid	400	702	4,450
Monday 28	1,668.68	2.33	12 AM -Mid	400	804	5,230
Tuesday 29	1,668.81	2.35	12 AM -Mid	400	872	6,130
Wednesday 30	1,668.88	2.37	12 AM -Mid	400	861	6,750
Thursday 1	1,669.03	2.39	12 AM -Mid	400	1,000	8,620
Friday 2	1,669.41	2.45	12 AM -Mid	400	1,040	8,800
Saturday 3	1,669.55	2.47	12 AM -Mid	400	923	8,250
CHANGE IN STORAGE DURING THE WEEK		0.14				

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2019	1,675.57	3.80	6	2022	1,669.55	2.47
2	2017	1,672.49	3.08	7	2021	1,669.33	2.44
3	2018	1,671.05	2.77	8	2014	1,668.66	2.33
4	2013	1,671.02	2.76	9	2016	1,668.25	2.26
5	2015	1,670.71	2.70	10	2020	1,667.07	2.06

CAPACITY AT SPILLWAY CREST (EL 1677.19) 4.213 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 1650.69) 0.10 B.C.F.

Datum: NAVD 88

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CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

STILLWATER RESERVOIR OPERATION

FOR WEEK ENDING: December 10, 2022

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 3	1,669.55	2.47	12 AM -Mid	400	923	8,250
Sunday 4	1,669.72	2.50	12 AM -Mid	400	875	10,100
Monday 5	1,669.99	2.55	12 AM -Mid	400	860	9,600
Tuesday 6	1,670.10	2.57	12 AM -Mid	400	839	9,140
Wednesday 7	1,670.21	2.60	12 AM -Mid	400	826	8,550
Thursday 8	1,670.46	2.65	12 AM -Mid	400	841	8,370
Friday 9	1,670.69	2.69	12 AM -Mid	400	821	8,670
Saturday 10	1,670.85	2.73	12 AM -Mid	400	723	9,120
CHANGE IN STORAGE DURING THE WEEK		0.25				

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2019	1,674.53	3.54	6	2015	1,670.52	2.66
2	2017	1,672.82	3.15	7	2021	1,670.06	2.56
3	2018	1,671.63	2.89	8	2016	1,669.00	2.38
4	2013	1,670.92	2.74	9	2014	1,667.96	2.21
5	2022	1,670.85	2.73	10	2020	1,666.27	1.93

CAPACITY AT SPILLWAY CREST (EL 1677.19) 4.213 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 1650.69) 0.10 B.C.F.

Datum: NAVD 88

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CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

STILLWATER RESERVOIR OPERATION

FOR WEEK ENDING: December 17, 2022

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 10	1,670.85	2.73	12 AM -Mid	400	723	9,120
Sunday 11	1,670.91	2.74	12 AM -Mid	400	610	8,580
Monday 12	1,670.96	2.75	12 AM -Mid	400	579	7,290
Tuesday 13	1,670.98	2.75	12 AM -Mid	400	529	6,110
Wednesday 14	1,670.97	2.75	12 AM -Mid	400	531	4,870
Thursday 15	1,670.96	2.75	12 AM -Mid	400	528	3,960
Friday 16	1,670.95	2.75	12 AM -Mid	458	546	3,610
Saturday 17	1,670.96	2.75	12 AM -Mid	500	616	3,750
CHANGE IN STORAGE DURING THE WEEK		0.02				

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2019	1,674.11	3.44	6	2013	1,670.57	2.67
2	2017	1,672.74	3.13	7	2015	1,670.47	2.65
3	2021	1,671.36	2.83	8	2016	1,668.82	2.35
4	2018	1,671.18	2.80	9	2014	1,666.97	2.05
5	2022	1,670.96	2.75	10	2020	1,665.90	1.87

CAPACITY AT SPILLWAY CREST (EL 1677.19) 4.213 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 1650.69) 0.10 B.C.F.

Datum: NAVD 88

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CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

STILLWATER RESERVOIR OPERATION

FOR WEEK ENDING: December 24, 2022

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 17	1,670.96	2.75	12 AM -Mid	500	616	3,750
Sunday 18	1,670.91	2.74	12 AM -Mid	500	666	3,950
Monday 19	1,670.84	2.72	12 AM -Mid	500	657	3,560
Tuesday 20	1,670.77	2.71	12 AM -Mid	500	650	3,560
Wednesday 21	1,670.68	2.69	12 AM -Mid	500	647	3,510
Thursday 22	1,670.58	2.67	12 AM -Mid	500	651	3,360
Friday 23	1,670.51	2.66	12 AM -Mid	500	942	4,030
Saturday 24	1,670.65	2.69	12 AM -Mid	500	1,080	6,060
CHANGE IN STORAGE DURING THE WEEK		-0.06				

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2019	1,673.14	3.22	6	2015	1,670.71	2.70
2	2017	1,672.41	3.06	7	2022	1,670.65	2.69
3	2013	1,672.01	2.97	8	2016	1,668.80	2.35
4	2018	1,671.59	2.88	9	2014	1,666.57	1.98
5	2021	1,671.33	2.83	10	2020	1,665.48	1.80

CAPACITY AT SPILLWAY CREST (EL 1677.19) 4.213 B.C.F.
CAPACITY AT LOW FLOW LINE (EL 1650.69) 0.10 B.C.F.

Datum: NAVD 88

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CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

FULTON CHAIN RESERVOIR OPERATION

FOR WEEK ENDING: December 3, 2022

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 26	1,704.97	0.656	99	1,783.17	0.213	58
Sunday 27	1,704.97	0.656	99	1,783.10	0.211	58
Monday 28	1,705.01	0.662	128	1,782.10	0.180	75
Tuesday 29	1,705.10	0.672	147	1,783.20	0.214	80
Wednesday 30	1,705.14	0.678	234	1,783.15	0.212	126
Thursday 1	1,705.09	0.671	282	1,783.10	0.211	152
Friday 2	1,705.17	0.682	282	1,783.05	0.209	151
Saturday 3	1,705.13	0.677	281	1,782.86	0.203	149
CHANGE IN STORAGE		0.021			-0.010	

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	2022	1,705.13	0.677	1	2020	1,783.18	0.213
2	2020	1,705.09	0.671	2	2022	1,782.86	0.203
3	2019	1,704.92	0.649	3	2021	1,782.48	0.191
4	2021	1,704.75	0.626	4	2019	1,782.24	0.184
5	2018	1,704.72	0.624	5	2018	1,781.95	0.175

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1706.99) 0.924 B.C.F.
SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1785.83) 0.297 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

FULTON CHAIN RESERVOIR OPERATION

FOR WEEK ENDING: December 10, 2022

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 3	1,705.13	0.677	281	1,782.86	0.203	149
Sunday 4	1,705.06	0.667	280	1,782.78	0.201	148
Monday 5	1,705.11	0.673	280	1,782.70	0.198	146
Tuesday 6	1,705.08	0.669	278	1,782.52	0.193	144
Wednesday 7	1,705.03	0.663	277	1,782.36	0.188	141
Thursday 8	1,705.00	0.660	276	1,782.29	0.185	138
Friday 9	1,704.98	0.658	274	1,782.19	0.182	94
Saturday 10	1,704.90	0.647	269	1,782.13	0.180	66
CHANGE IN STORAGE		-0.030			-0.023	

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	2020	1,704.92	0.649	1	2020	1,782.27	0.185
2	2022	1,704.90	0.647	2	2022	1,782.13	0.180
3	2019	1,704.71	0.623	3	2021	1,782.11	0.180
4	2021	1,704.54	0.599	4	2019	1,781.87	0.173
5	2018	1,704.38	0.578	5	2018	1,781.48	0.161

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1706.99) 0.924 B.C.F.
SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1785.83) 0.297 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

FULTON CHAIN RESERVOIR OPERATION

FOR WEEK ENDING: December 17, 2022

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 10	1,704.90	0.647	269	1,782.13	0.180	66
Sunday 11	1,704.78	0.630	264	1,782.05	0.178	65
Monday 12	1,704.66	0.616	259	1,781.99	0.176	65
Tuesday 13	1,704.53	0.598	255	1,781.91	0.174	64
Wednesday 14	1,704.40	0.582	152	1,781.80	0.171	63
Thursday 15	1,704.38	0.580	84	1,781.70	0.167	63
Friday 16	1,704.40	0.582	84	1,781.62	0.165	62
Saturday 17	1,704.44	0.587	85	1,781.57	0.163	62
CHANGE IN STORAGE		-0.060			-0.017	

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	2019	1,704.84	0.638	1	2019	1,782.30	0.186
2	2020	1,704.75	0.628	2	2020	1,781.89	0.173
3	2022	1,704.44	0.587	3	2022	1,781.57	0.163
4	2018	1,704.43	0.585	4	2018	1,781.52	0.162
5	2021	1,704.34	0.573	5	2021	1,781.51	0.162

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1706.99) 0.924 B.C.F.
SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1785.83) 0.297 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT

FULTON CHAIN RESERVOIR OPERATION

FOR WEEK ENDING: December 24, 2022

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 17	1,704.44	0.587	85	1,781.57	0.163	62
Sunday 18	1,704.55	0.600	85	1,781.47	0.160	62
Monday 19	1,704.57	0.603	85	1,781.41	0.159	61
Tuesday 20	1,704.60	0.607	85	1,781.33	0.156	61
Wednesday 21	1,704.61	0.608	108	1,781.24	0.153	41
Thursday 22	1,704.47	0.591	121	1,781.19	0.152	32
Friday 23	1,704.49	0.594	203	1,781.21	0.153	101
Saturday 24	1,704.50	0.595	255	1,781.27	0.154	147
CHANGE IN STORAGE		0.008			-0.009	

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	2019	1,704.71	0.623	1	2019	1,782.12	0.180
2	2020	1,704.66	0.615	2	2018	1,781.94	0.175
3	2018	1,704.57	0.603	3	2020	1,781.62	0.165
4	2021	1,704.54	0.599	4	2021	1,781.29	0.155
5	2022	1,704.50	0.595	5	2022	1,781.27	0.154

OLD FORGE CAPACITY AT SPILLWAY CREST (EL 1706.99) 0.924 B.C.F.
SIXTH LAKE CAPACITY AT SPILLWAY CREST (EL 1785.83) 0.297 B.C.F.

Datum: NAVD 88

CHIEF ENGINEER