

REPORT OF CHIEF ENGINEER
HUDSON RIVER - BLACK RIVER REGULATING DISTRICT
BOARD MEETING
SEPTEMBER 12, 2023 – MAYFIELD, NEW YORK

HUDSON RIVER AREA - AUGUST SUMMARY

Reservoir Operation

Great Sacandaga Lake

The August average daily release from the Sacandaga Reservoir (Great Sacandaga Lake) was approximately 2,220 cubic feet per second (cfs). The Upper Hudson / Sacandaga River Offer of Settlement target elevation for August 31 is 762.50 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
July 31	764.61	+2.19	-0.28	0	1,580
Aug. 31	763.1 (e)	+4.1 (e)	+0.6 (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⁾ "NAVD" is North American Vertical Datum

Indian Lake Reservoir

The August average daily release from Indian Lake was approximately 310 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	
July 31	1,647.31	-0.58	+0.11	159
Aug. 31	1,646.8 (e)	+0.8 (e)	+0.1 (e)	160 (e)

Notes: ⁽¹⁾ Local datum = NAVD elevation + 1617.63ft; spillway crest = 1651.01ft (33.38ft)

⁽²⁾ "(e)" represents estimated value

HUDSON RIVER AREA - AUGUST SUMMARY- continued

River Flow

Hudson River flow, downstream of the confluence with the Sacandaga River, was approximately 6,540 cfs on August 27 and approximately 3,440 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	759 (e)	298
Sacandaga at Stewarts Bridge	2,220 (e)	1,900
Indian at Indian Lake Dam	313 (e)	333
Hudson at Hadley (1)	4,890 (e)	1,280

Notes: (1) Above confluence with Sacandaga River
(2) Based on USGS records
(3) "(e)" represents estimated value

Precipitation

Monthly total precipitation measured 132%, 136%, and 148% historic average at Indian Lake, Mayfield, and Conklingville, respectively, as of August 27

Table 4.0 - *Hudson River Basin Precipitation - as of August 27*

Station	Monthly Total (inch)	Historic Average (inch)
Indian Lake	5.21	3.93
Mayfield	5.49	4.03
Conklingville	5.70	3.86

HUDSON RIVER AREA - AUGUST SUMMARY- continued

Operation Overview

Precipitation during the month of August was above average across 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 270% and 219% of historic average, respectively. Monthly release of water from Great Sacandaga Lake and Indian Lake measured 116% and 128% of historic average, respectively.

Great Sacandaga Lake Operation

Great Sacandaga Lake operation summary report for the period August 1, 2023 through August 27, 2023 is attached. This report includes projected and forecast values for dates after August 27, 2023.

Hudson River Area Staff Activities

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

BLACK RIVER AREA – AUGUST SUMMARY

Reservoir Operations

Stillwater Reservoir

The August average daily release from Stillwater Reservoir was approximately 815 cfs. The maximum discharge for the month was 1,000 cfs.

Table 1.0 - *Stillwater Reservoir Elevation and Release*

Date	Daily Average Elevation (ft, NAVD)	Deviation from Average Elevation (ft) (1)	Release (cfs)
July 31	1,676.18	+0.74	300
Aug. 31	1,677.5 (e)	+5.0 (e)	883 (e)

Notes: (1) Difference between current reservoir elevation and historic average

(2) "(e)" represents estimated value

Sixth Lake Reservoir

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

Table 2.0 - *Sixth Lake Reservoir Elevation and Release*

Date	Elevation (1) (ft, NAVD)	Deviation from Average Elevation (2) (ft)	Release (cfs)
July 31	1,785.91	+0.15	15
Aug. 31	1,786.0 (e)	+0.3 (e)	10 (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 August average daily release from Old Forge Reservoir was approximately 100 cfs.

Table 3.0 - *Old Forge Reservoir Elevation and Release*

Date	Elevation (1) (ft, NAVD)	Deviation from Average Elevation (2) (ft)	Release (cfs)
July 31	1,706.99	+0.06	12
Aug. 31	1,706.9 (e)	-0.1 (e)	20 (e)

Notes: (1) Local Datum = USGS elevation

(2) Difference between current reservoir elevation and historic average.

(3) "(e)" represents estimated value

BLACK RIVER AREA - AUGUST SUMMARY - continued

River Flow

The average daily Black River flow, as measured at the Watertown gauge, was approximately 4,500 cfs on August 27.

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

River	Monthly Average Flow (cfs)	Historic Average Flow ⁽¹⁾ (cfs)
Moose at McKeever	1,264 (e)	340
Beaver at Croghan	1,430 (e)	521
Black at Watertown	6,620 (e)	1,890

Notes: ⁽¹⁾ Based on USGS records
⁽²⁾ "(e)" represents estimated value

Precipitation

Monthly total precipitation measured 240%, 183%, 131% of historic average at Stillwater, Old Forge, and Sixth Lake, respectively, as of August 27.

Table 5.0 - *Black River Basin Precipitation - as of August 27*

Station	Monthly Total (inch)	Historic Average (inch)
Stillwater	11.50	4.80
Old Forge	8.25	4.50
Sixth Lake	5.47	4.19

BLACK RIVER AREA - AUGUST SUMMARY - continued

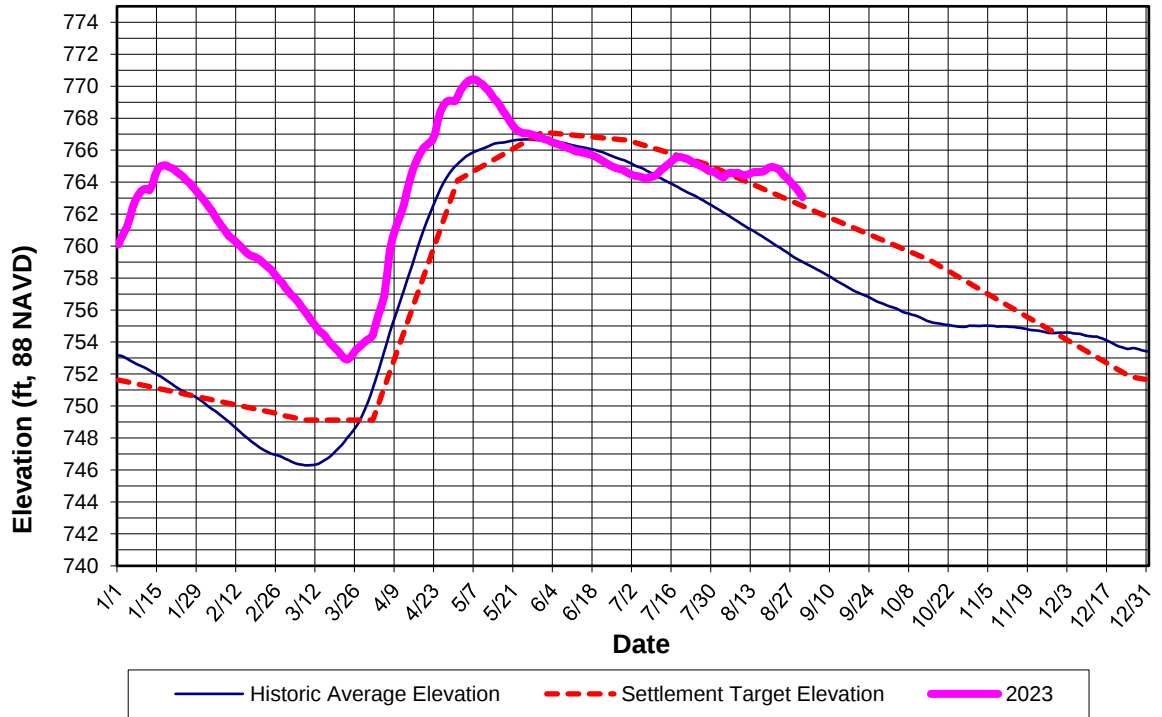
Operation Overview

Precipitation in the month of August was above average at Stillwater, and above average at Old Forge and Sixth Lake. The monthly inflow to Stillwater Reservoir was approximately 407% of historic average. The inflow to Sixth Lake and Old Forge Reservoir totaled 0.08 and 0.24 billion cubic feet, respectively, in August. Release of water from Stillwater Reservoir averaged 188% of historic discharge.

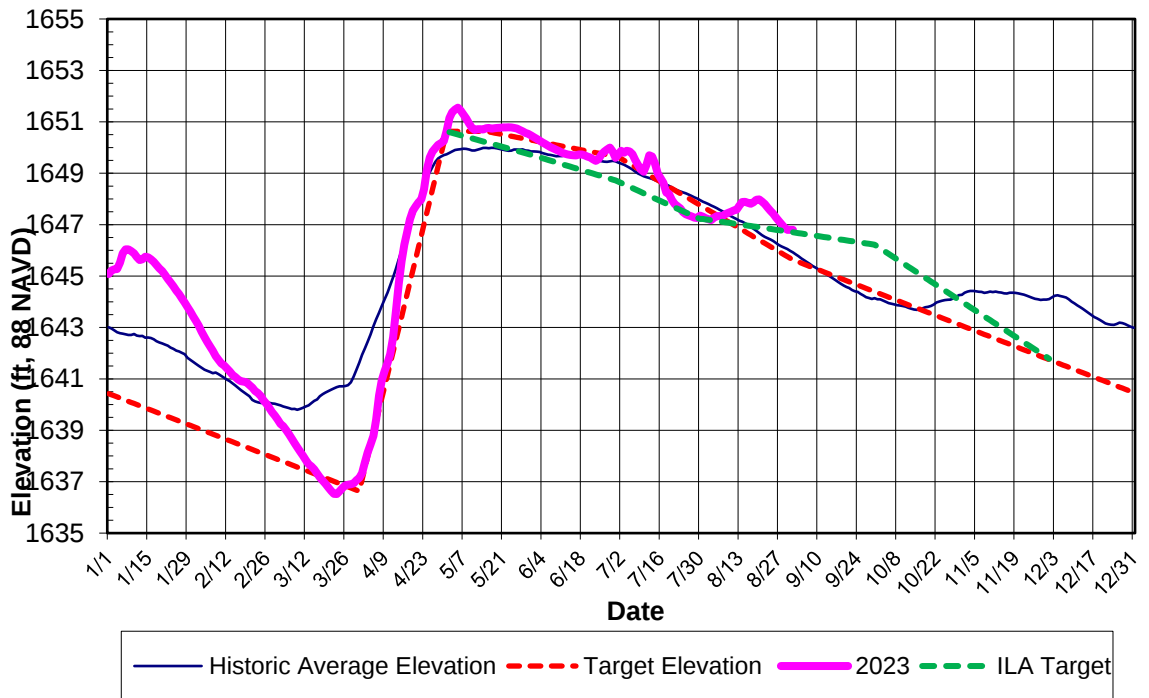
Black River Area Staff Activities

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

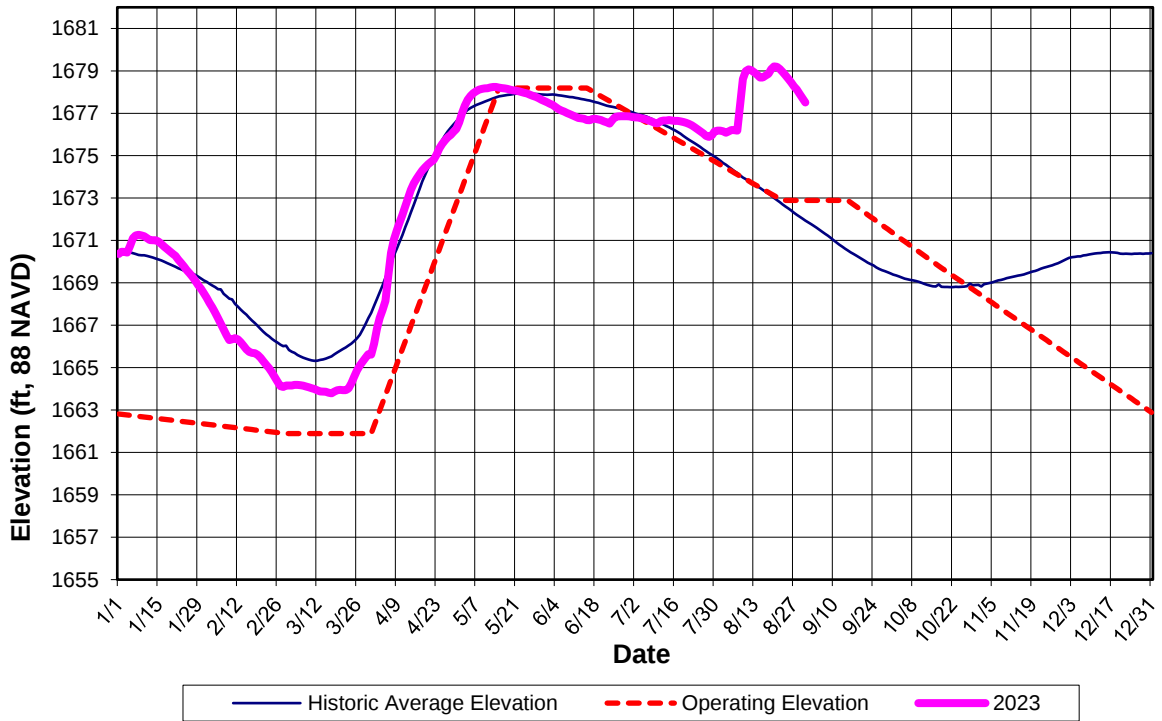
Great Sacandaga Lake 2023 Reservoir Elevation



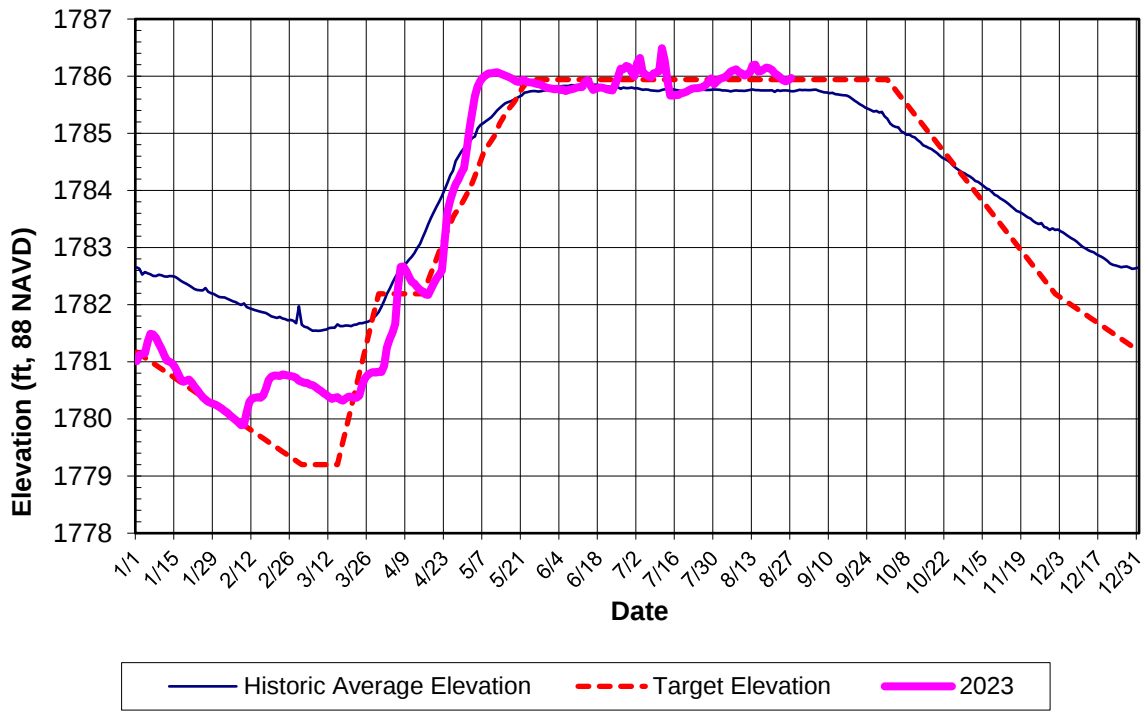
Indian Lake 2023 Reservoir Elevation



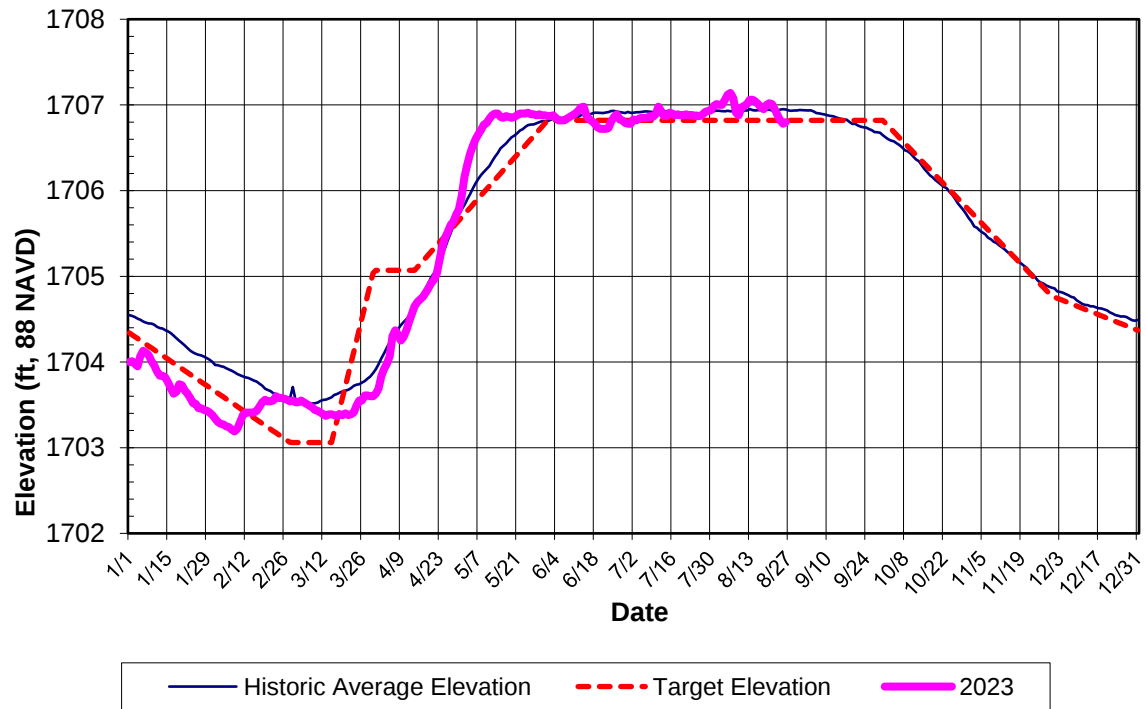
Stillwater Reservoir 2023 Reservoir Elevation



Sixth Lake 2023 Reservoir Elevation



Old Forge 2023 Reservoir Elevation



Hawkinsville Dam Remediation – Construction Progress Update

Construction activities during the month of August included installation of embankment core material, installaiton of west-side concrete spillway abutment, and installation of the outlet pipe.

Construction activities planned for September include concrete installation at the west-side spillway extension and placing of fill at the west-side abutment.



Installation of the outlet pipe and west-side abutment



West-side abutment after concrete placement



Installation of east-side embankment dam core material



Installation of east-side embankment dam filter sand and gravel.



Accessible Fishing Platform nearly completed

SACANDAGA RESERVOIR ELEVATION CALCULATOR

Datum:

1988 NAVD

Settlement Parameters

Date	8/28/2023	
Target Elevation	762.74	
Actual "Level"	3.11	
"Level 2.5 threshold"	759.50	
"Level 1.2 threshold"	755.80	
Hudson River Target	Elevation	Level
Maximum Flow (cfs)	8000	7720
Minimum Flow (cfs)	n/a	2220
Min. Rec/Rafting Hours (hrs)	8	

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	8/28/2023
Day of Year	6084
Starting Elevation (ft)	763.85
Average Elevation	763.74
Flow Below Hadley (cfs)	6800
Todays Release	3600
Tomorrows Release	3800

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
Spillway Crest 770.12 ft 88 NAVD

Starting Date 12:00 AM	Starting Elevation	Net Average Inflow	E.J. West	Sacandaga River Flow				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.
				Valves	Spillway	Average Release	Maximum (Table F - Elev.)				Minimum (Table C - Level)	Maximum (Table D - Elev.)	Maximum (Table E - Level)					
8/1/2023	764.52	300	1580	0	0	1580	4140	2.92	4610	6190	1962	8000	7500	764.41	8/2/2023	764.47	764.81	762.31
8/2/2023	764.41	0	680	0	0	680	4093	2.92	3820	4500	1962	8000	7500	764.35	8/3/2023	764.38	764.74	762.20
8/3/2023	764.35	1500	1630	0	0	1630	4093	2.94	3180	4810	1971	8000	7500	764.33	8/4/2023	764.34	764.66	762.10
8/4/2023	764.33	4100	1610	0	0	1610	4140	2.96	3620	5230	1981	8000	7500	764.52	8/5/2023	764.43	764.58	762.00
8/5/2023	764.52	2500	1590	0	0	1590	4187	2.98	4900	6490	1990	8000	7500	764.59	8/6/2023	764.56	764.50	761.89
8/6/2023	764.59	1400	1610	0	0	1610	4187	3.00	5110	6720	2000	8000	7500	764.57	8/7/2023	764.58	764.43	761.78
8/7/2023	764.57	2000	1620	0	0	1620	4187	3.02	4760	6380	2040	8000	7540	764.59	8/8/2023	764.58	764.35	761.66
8/8/2023	764.59	2200	2350	0	0	2350	4187	3.04	4850	7200	2080	8000	7580	764.57	8/9/2023	764.58	764.27	761.55
8/9/2023	764.57	1300	2790	0	0	2790	4140	3.04	5550	8340	2080	8000	7580	764.45	8/10/2023	764.51	764.20	761.43
8/10/2023	764.45	1800	2470	0	0	2470	4140	3.04	6230	8700	2080	8000	7580	764.39	8/11/2023	764.42	764.12	761.32
8/11/2023	764.39	2300	1220	0	0	1220	4140	3.04	7010	8230	2080	8000	7580	764.47	8/12/2023	764.43	764.04	761.21
8/12/2023	764.47	1600	1140	0	0	1140	4140	3.06	6740	7880	2120	8000	7620	764.50	8/13/2023	764.49	763.97	761.11
8/13/2023	764.50	2700	1140	0	0	1140	4187	3.08	6730	7870	2160	8000	7660	764.62	8/14/2023	764.56	763.89	761.01
8/14/2023	764.62	1500	1340	0	0	1340	4233	3.10	6330	7670	2200	8000	7700	764.63	8/15/2023	764.63	763.81	760.91
8/15/2023	764.63	1800	1660	0	0	1660	4233	3.11	5730	7390	2220	8000	7720	764.64	8/16/2023	764.64	763.74	760.80
8/16/2023	764.64	2000	1800	0	0	1800	4233	3.11	5590	7390	2220	8000	7720	764.65	8/17/2023	764.65	763.66	760.69
8/17/2023	764.65	1800	1490	0	0	1490	4233	3.11	6080	7570	2220	8000	7720	764.67	8/18/2023	764.66	763.58	760.58
8/18/2023	764.67	4200	1330	0	0	1330	4280	3.14	6250	7580	2280	8000	7780	764.89	8/19/2023	764.78	763.50	760.46
8/19/2023	764.89	1700	889	0	0	889	4373	3.16	6670	7559	2320	8000	7820	764.95	8/20/2023	764.92	763.43	760.35
8/20/2023	764.95	1100	1310	0	0	1310	4373	3.18	6240	7550	2360	8000	7860	764.93	8/21/2023	764.94	763.35	760.23
8/21/2023	764.93	1300	1780	0	0	1780	4327	3.19	5570	7350	2380	8000	7880	764.89	8/22/2023	764.91	763.27	760.11
8/22/2023	764.89	1300	2220	0	0	2220	4327	3.20	5040	7260	2400	8000	7900	764.81	8/23/2023	764.85	763.20	760.00
8/23/2023	764.81	700	3130	0	0	3130	4233	3.20	4380	7510	2400	8000	7900	764.61	8/24/2023	764.71	763.12	759.90
8/24/2023	764.61	900	3520	0	0	3520	4140	3.20	3880	7400	2400	8000	7900	764.40	8/25/2023	764.51	763.04	759.78
8/25/2023	764.40	1500	3540	0	0	3540	4047	3.19	3690	7230	2380	8000	7880	764.23	8/26/2023	764.32	762.97	759.67
8/26/2023	764.23	800	2980	0	0	2980	4000	3.17	3520	6500	2340	8000	7840	764.05	8/27/2023	764.14	762.89	759.55
8/27/2023	764.05	700	3150	0	0	3150	4000	3.16	3390	6540	2320	8000	7820	763.85	8/28/2023	763.95	762.81	759.42
8/28/2023	763.85	700	3600	0	0	3600	4000	3.15	3200	6800	2300	8000	7800	763.62	8/29/2023	763.74	762.74	759.30
8/29/2023	763.62	600	3800	0	0	3800	4000	3.14	3000	6800	2280	8000	7780	763.36	8/30/2023	763.49	762.66	759.20
8/30/2023	763.36	500	4000	0	0	4000	4000	3.11	3000	7000	2220	8000	7720	763.08	8/31/2023	763.22	762.58	759.11
8/31/2023	763.08	500	4000	0	0	4000	4000	3.10	2900	6900	2200	8000	7700	762.79	9/1/2023	762.94	762.50	759.01
9/1/2023	762.79	500	1567	0	0	1567	4000	3.09	2800	4367	2180	8000	7680	762.70	9/2/2023		762.35	758.92
6/6/2020	767.29	1000	2000	0	0	2000	5487	3.00	3000	5000	2000	8000	7500	777.12	3/15/2019	#N/A	#N/A	

Signature:_____

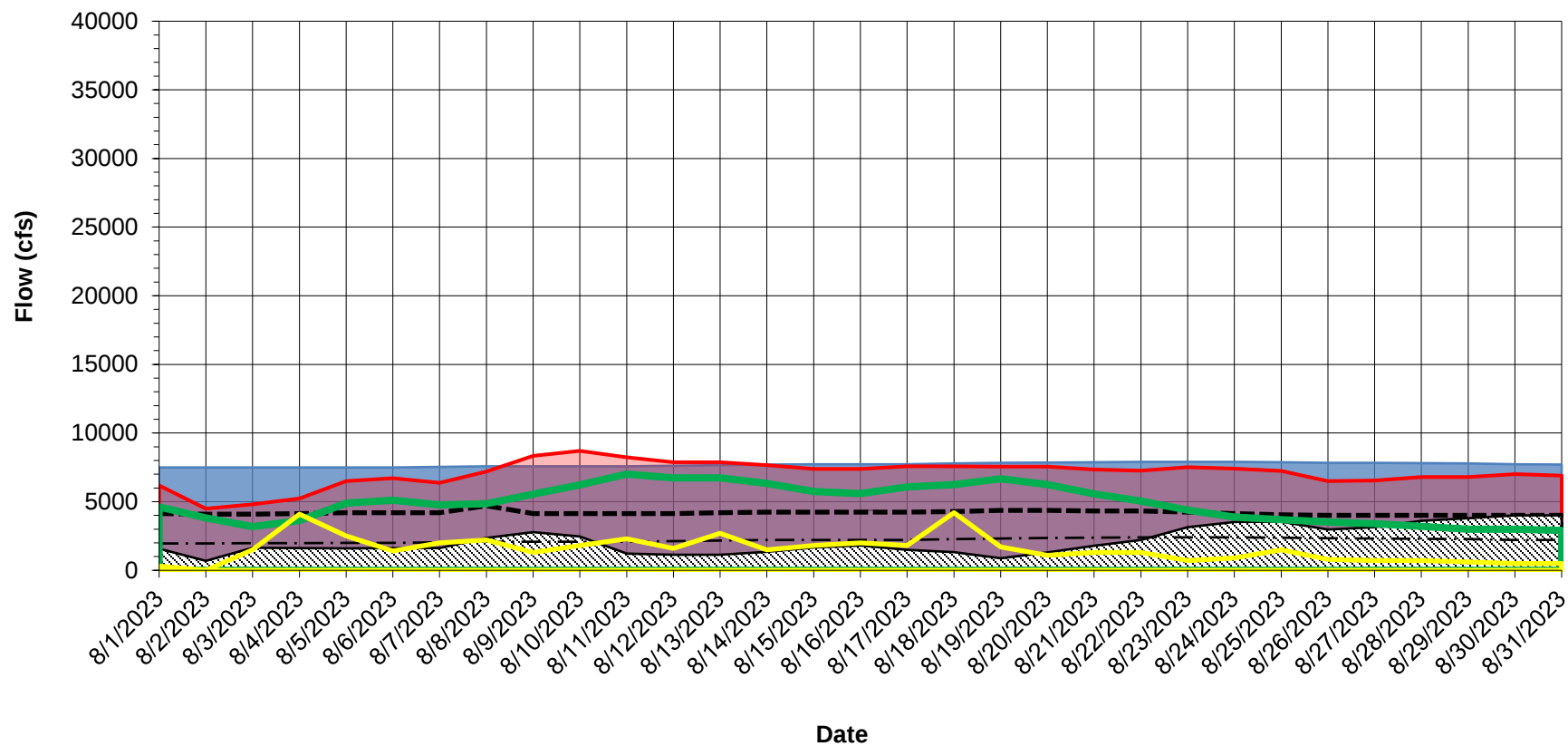
Date:_____

**GREAT SACANDAGA LAKE
RESERVOIR OPERATION SUMMARY**

Print Date: 8/28/2023
Period of Record: 8/1/2023 to 8/29/2023

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
8/1/2023	764.47	300	1580	4140	2.92	4610	6190	1962	7500	4187
8/2/2023	764.38	0	680	4093	2.92	3820	4500	1962	7500	4093
8/3/2023	764.34	1500	1630	4093	2.94	3180	4810	1971	7500	4093
8/4/2023	764.43	4100	1610	4140	2.96	3620	5230	1981	7500	4093
8/5/2023	764.56	2500	1590	4187	2.98	4900	6490	1990	7500	4187
8/6/2023	764.58	1400	1610	4187	3.00	5110	6720	2000	7500	4187
8/7/2023	764.58	2000	1620	4187	3.02	4760	6380	2040	7540	4187
8/8/2023	765.70	2200	2350	4700	3.04	4850	7200	2080	7580	4187
8/9/2023	764.51	1300	2790	4140	3.04	5550	8340	2080	7580	4187
8/10/2023	764.42	1800	2470	4140	3.04	6230	8700	2080	7580	4140
8/11/2023	764.43	2300	1220	4140	3.04	7010	8230	2080	7580	4093
8/12/2023	764.49	1600	1140	4140	3.06	6740	7880	2120	7620	4140
8/13/2023	764.56	2700	1140	4187	3.08	6730	7870	2160	7660	4140
8/14/2023	764.63	1500	1340	4233	3.10	6330	7670	2200	7700	4233
8/15/2023	764.64	1800	1660	4233	3.11	5730	7390	2220	7720	4233
8/16/2023	764.65	2000	1800	4233	3.11	5590	7390	2220	7720	4233
8/17/2023	764.66	1800	1490	4233	3.11	6080	7570	2220	7720	4233
8/18/2023	764.78	4200	1330	4280	3.14	6250	7580	2280	7780	4233
8/19/2023	764.92	1700	889	4373	3.16	6670	7559	2320	7820	4327
8/20/2023	764.94	1100	1310	4373	3.18	6240	7550	2360	7860	4373
8/21/2023	764.91	1300	1780	4327	3.19	5570	7350	2380	7880	4373
8/22/2023	764.85	1300	2220	4327	3.20	5040	7260	2400	7900	4327
8/23/2023	764.71	700	3130	4233	3.20	4380	7510	2400	7900	4280
8/24/2023	764.51	900	3520	4140	3.20	3880	7400	2400	7900	4187
8/25/2023	764.32	1500	3540	4047	3.19	3690	7230	2380	7880	4093
8/26/2023	764.14	800	2980	4000	3.17	3520	6500	2340	7840	4047
8/27/2023	763.95	700	3150	4000	3.16	3390	6540	2320	7820	4000
8/28/2023	763.74	700	3600	4000	3.15	3200	6800	2300	7800	4000
8/29/2023	763.49	600	3800	4000	3.14	3000	6800	2280	7780	4000
8/30/2023	763.22	500	4000	4000	3.11	3000	7000	2220	7720	4000
8/31/2023	762.94	500	4000	4000	3.10	2900	6900	2200	7700	4000

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

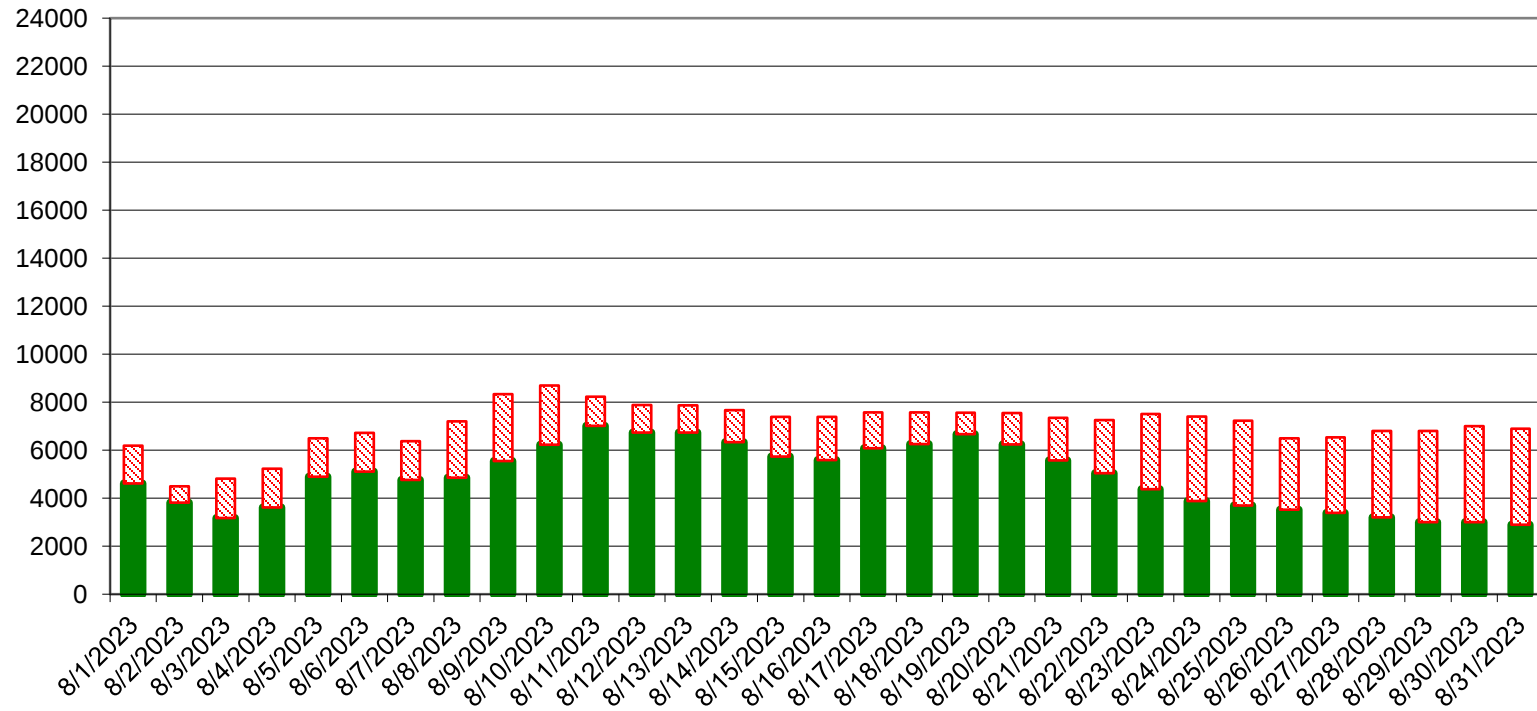


■ Maximum Allowable Hudson River Flow Below Confluence
▬ Minimum Allowable Hudson River Flow Below Confluence
■ Great Sacandaga Lake Inflow

■ Hudson River Flow Below Confluence
■ Hudson River at Hadley
■ Sacandaga River Flow

Great Sacandaga Lake GSL Release and Natural Hudson River Flow

Total Flow Below Confluence (cfs)



Date

▨ GSL Release

■ Natural Hudson River Flow

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

Monthly Report for: July 2023

Day	Sacandaga Reservoir Elevation Average Daily	Sacandaga Reservoir Elevation Midnight	Sacandaga River Near Hope cfs	Reservoir Inflow Hope x 2.2184 cfs	Sacandaga River at Stewarts Bridge cfs	Hudson River at Hadley cfs	Regulated Hudson River below confluence cfs
1	764.51	764.52	321	712	1590	2010	3600
2	764.43	764.47	347	770	1600	2000	3600
3	764.39	764.38	552	1225	1630	2960	4590
4	764.36	764.34	717	1591	1660	4130	5790
5	764.32	764.33	524	1162	1560	3920	5480
6	764.24	764.32	448	994	1580	3570	5150
7	764.20	764.19	646	1433	1620	3250	4870
8	764.34	764.19	731	1622	1590	4310	5900
9	764.34	764.33	638	1415	1600	4380	5980
10	764.41	764.33	835	1852	1610	4840	6450
11	764.58	764.49	2230	4947	413	11800	12213
12	764.77	764.66	1710	3793	411	17700	18111
13	764.90	764.78	1350	2995	479	11800	12279
14	765.05	764.94	1470	3261	432	9160	9592
15	765.19	765.13	1370	3039	431	7870	8301
16	765.35	765.26	1260	2795	430	7520	7950
17	765.50	765.40	1230	2729	430	7280	7710
18	765.57	765.53	952	2112	1180	6640	7820
19	765.56	765.56	762	1690	1350	6150	7500
20	765.50	765.55	548	1216	1620	5350	6970
21	765.47	765.48	463	1027	1560	4830	6390
22	765.37	765.39	415	921	1620	4300	5920
23	765.26	765.30	300	666	1620	4020	5640
24	765.15	765.21	304	674	1600	3550	5150
25	765.09	764.99	292	648	1580	3460	5040
26	765.00	765.05	278	617	1580	3680	5260
27	764.91	764.93	256	568	1570	3190	4760
28	764.80	764.81	273	606	1560	3080	4640
29	764.69	764.72	252	559	1560	3050	4610
30	764.67	764.67	529	1174	1580	5420	7000
31	764.61	764.60	392	870	1580	5490	7070

AVERAGE	722	1600	1310	5510	6820
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CHANGE IN STORAGE DURING THE MONTH

0.00 B.C.F.

CHIEF ENGINEER

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

Monthly Report for: July, 2023

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	1649.73	1649.59	1823	763	237	1440
2	1649.87	1650.05	421	768	325	1600
3	1649.80	1649.90	1050	772	595	2690
4	1649.87	1650.02	169	771	701	3210
5	1649.85	1649.76	1004	773	668	2660
6	1649.74	1649.87	609	771	670	2430
7	1649.52	1649.79	363	777	673	2320
8	1649.32	1649.62	108	768	705	3320
9	1649.15	1649.31	1054	768	700	3050
10	1649.06	1649.44	156	772	1120	3930
11	1649.34	1649.16	1948	782	4870	14300
12	1649.70	1649.69	871	771	5920	14700
13	1649.65	1649.73	605	771	2990	7960
14	1649.39	1649.66	41	767	1870	5670
15	1648.99	1649.33	16	764	1410	4620
16	1648.80	1648.99	-322	761	1070	3610
17	1648.63	1648.49	610	756	796	2750
18	1648.25	1648.42	-353	751	630	2280
19	1648.20	1647.89	481	419	522	1870
20	1647.96	1647.92	-109	266	413	1470
21	1647.80	1647.74	328	266	359	1180
22	1647.72	1647.77	37	266	334	1240
23	1647.63	1647.66	97	264	294	1080
24	1647.49	1647.58	-6	265	265	920
25	1647.40	1647.45	-15	193	280	1350
26	1647.36	1647.36	138	159	260	959
27	1647.32	1647.35	13	159	240	954
28	1647.27	1647.27	34	159	287	946
29	1647.26	1647.21	415	165	388	1430
30	1647.35	1647.33	181	160	946	3490
31	1647.31	1647.35	117	159	916	2640

AVERAGE	383	540	1015	3293
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CHANGE IN STORAGE DURING THE MONTH	-0.418 B.C.F
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CHIEF ENGINEER

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

Monthly Report for: July 2023

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	1676.82	1676.83	241	300	827	417	3910
2	1676.81	1676.81	300	300	1230	413	3090
3	1676.80	1676.81	241	300	1540	381	3300
4	1676.77	1676.79	212	300	1460	353	4730
5	1676.74	1676.76	182	300	1140	503	4940
6	1676.70	1676.72	153	300	717	361	4530
7	1676.65	1676.67	359	300	550	351	3280
8	1676.60	1676.69	123	300	729	347	2420
9	1676.54	1676.63	182	300	612	477	2340
10	1676.53	1676.59	535	300	564	677	3840
11	1676.63	1676.67	477	300	1860	514	4180
12	1676.66	1676.73	300	300	1910	381	4750
13	1676.66	1676.73	359	300	1290	396	5360
14	1676.68	1676.75	241	300	1170	525	5540
15	1676.66	1676.73	241	300	867	435	5090
16	1676.64	1676.71	329	300	615	349	3860
17	1676.64	1676.72	212	300	507	444	2910
18	1676.62	1676.69	241	300	476	374	2340
19	1676.59	1676.67	212	300	405	427	2130
20	1676.55	1676.64	153	300	351	306	1900
21	1676.50	1676.59	182	358	356	332	1610
22	1676.43	1676.53	194	400	375	298	1560
23	1676.34	1676.46	106	400	342	324	1460
24	1676.25	1676.36	106	400	311	471	1540
25	1676.15	1676.26	135	400	358	449	1590
26	1676.05	1676.17	93	475	337	581	1500
27	1675.93	1676.04	284	488	318	607	1670
28	1675.89	1675.97	186	300	330	460	1650
29	1675.95	1675.93	912	300	341	578	1710
30	1676.14	1676.14	594	300	517	617	2840
31	1676.18	1676.24	329	300	487	613	3110

AVERAGE	271	326	740	440	3050
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CHANGE IN STORAGE DURING THE MONTH

-0.15 B.C.F.

CHIEF ENGINEER

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

Monthly Report for: July, 2023

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow cfs	Gate Opening (ft)		Reservoir Release (cfs)
				Gate A	Gate B	
1	1786.00	1786.03	61	0.50	0.67	61
2	1786.23	1786.02	61	0.50	0.67	61
3	1786.32	1786.41	177	3.00	3.00	177
4	1786.06	1786.17	140	0.33	0.33	140
5	1786.03	1786.04	40	0.33	0.33	40
6	1786.00	1786.01	40	0.33	0.33	40
7	1785.98	1785.98	40	0.33	0.33	40
8	1786.05	1786.03	40	0.33	0.33	40
9	1786.06	1786.07	40	0.33	0.33	40
10	1786.09	1786.07	58	0.67	0.67	58
11	1786.49	1786.29	180	3.00	3.00	180
12	1786.28	1786.45	259	3.00	3.00	259
13	1785.93	1786.10	254	3.00	3.00	254
14	1785.66	1785.75	127	0.33	0.33	127
15	1785.66	1785.66	39	0.33	0.33	39
16	1785.67	1785.67	39	0.33	0.33	39
17	1785.67	1785.67	23	0.17	0.00	23
18	1785.70	1785.68	9	0.17	0.00	9
19	1785.71	1785.71	9	0.17	0.00	9
20	1785.73	1785.72	9	0.17	0.00	9
21	1785.76	1785.73	9	0.17	0.00	9
22	1785.78	1785.77	9	0.17	0.00	9
23	1785.79	1785.78	9	0.17	0.00	9
24	1785.79	1785.79	7	0.08	0.00	7
25	1785.80	1785.79	5	0.08	0.00	5
26	1785.81	1785.80	5	0.08	0.00	5
27	1785.85	1785.80	5	0.08	0.00	5
28	1785.90	1785.88	9	0.17	0.00	9
29	1785.96	1785.91	86	3.00	3.00	86
30	1785.86	1785.93	142	0.08	0.00	142
31	1785.91	1785.89	5	0.08	0.00	5

AVERAGE	62	62
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CHANGE IN STORAGE DURING THE MONTH	-0.003 B.C.F
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CHIEF ENGINEER

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

Monthly Report for: July, 2023

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow cfs	Gate Opening (ft)		Reservoir Release (cfs)
				Gate A	Gate B	
1	1706.78	1706.79	92	0.58	0.67	77
2	1706.83	1706.80	152	0.58	0.67	77
3	1706.82	1706.85	138	2.67	2.67	183
4	1706.84	1706.82	217	0.58	0.58	157
5	1706.85	1706.86	68	0.58	0.58	68
6	1706.85	1706.86	38	0.58	0.58	68
7	1706.85	1706.84	113	0.58	0.58	68
8	1706.87	1706.87	68	0.58	0.58	68
9	1706.86	1706.87	53	0.58	0.58	68
10	1706.89	1706.86	353	0.75	0.75	81
11	1706.98	1707.03	311	4.00	4.00	246
12	1706.93	1707.07	276	4.00	4.00	357
13	1706.87	1707.02	242	4.00	4.00	355
14	1706.87	1706.95	122	0.58	0.58	171
15	1706.91	1706.92	53	0.58	0.58	69
16	1706.90	1706.91	53	0.58	0.58	69
17	1706.88	1706.90	40	0.17	0.25	40
18	1706.89	1706.90	4	0.17	0.25	20
19	1706.88	1706.89	5	0.17	0.25	20
20	1706.88	1706.88	35	0.17	0.25	20
21	1706.89	1706.89	36	0.17	0.25	20
22	1706.88	1706.90	4	0.17	0.25	20
23	1706.88	1706.89	5	0.17	0.25	20
24	1706.87	1706.88	-2	0.00	0.17	13
25	1706.87	1706.87	23	0.00	0.17	8
26	1706.87	1706.88	-7	0.00	0.17	8
27	1706.89	1706.87	103	0.00	0.17	8
28	1706.92	1706.93	12	0.42	0.42	28
29	1706.93	1706.92	113	4.00	4.00	145
30	1706.94	1706.90	357	0.00	0.25	195
31	1706.99	1707.00	28	0.00	0.25	12

AVERAGE 100 89

CHANGE IN STORAGE DURING THE MONTH 0.030 B.C.F

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
SACANDAGA RESERVOIR OPERATION
FOR WEEK ENDING: August 5, 2023

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 29	764.72	31.60	12 AM - Mid	1,560	3,050	4,610
Sunday 30	764.67	31.55	12 AM - Mid	1,580	5,420	7,000
Monday 31	764.60	31.47	12 AM - Mid	1,580	5,490	7,070
Tuesday 1	764.52	31.38	12 AM - Mid	1,580	4,610	6,190
Wednesday 2	764.41	31.26	12 AM - Mid	1,680	3,820	5,500
Thursday 3	764.25	31.09	12 AM - Mid	1,630	3,180	4,810
Friday 4	764.25	31.09	12 AM - Mid	1,610	3,620	5,230
Saturday 5	764.58	31.45	12 AM - Mid	1,590	4,900	6,490
CHANGE IN STORAGE DURING THE WEEK		-0.15	* 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	2021	767.58	34.80	6	2015	763.48	30.25
2	2017	764.99	31.90	7	2022	762.93	29.65
3	2014	764.92	31.82	8	2016	762.23	28.89
4	2023	764.58	31.45	9	2018	761.97	28.61
5	2019	763.50	30.27	10	2020	761.88	28.52

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: August 12, 2023

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 5	764.58	31.45	12 AM - Mid	1,590	4,900	6,490
Sunday 6	764.62	31.49	12 AM - Mid	1,610	5,110	6,720
Monday 7	764.55	31.42	12 AM - Mid	1,620	4,760	6,380
Tuesday 8	764.56	31.42	12 AM - Mid	2,350	4,850	7,200
Wednesday 9	764.57	31.44	12 AM - Mid	2,790	5,550	8,340
Thursday 10	764.45	31.31	12 AM - Mid	2,470	6,230	8,700
Friday 11	764.45	31.31	12 AM - Mid	1,220	7,010	8,230
Saturday 12	764.49	31.35	12 AM - Mid	1,140	6,740	7,880
CHANGE IN STORAGE DURING THE WEEK		-0.10	* 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	2021	765.64	32.62	6	2015	762.69	29.39
2	2023	764.49	31.35	7	2022	762.07	28.72
3	2017	764.38	31.23	8	2016	761.50	28.11
4	2014	764.13	30.96	9	2020	761.37	27.97
5	2019	762.79	29.50	10	2018	761.14	27.73

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: August 19, 2023

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 12	764.49	31.35	12 AM - Mid	1,140	6,740	7,880
Sunday 13	764.52	31.38	12 AM - Mid	1,140	6,730	7,870
Monday 14	764.62	31.49	12 AM - Mid	1,340	6,330	7,670
Tuesday 15	764.63	31.51	12 AM - Mid	1,660	5,730	7,390
Wednesday 16	764.64	31.52	12 AM - Mid	1,800	5,590	7,390
Thursday 17	764.68	31.56	12 AM - Mid	1,490	6,080	7,570
Friday 18	764.67	31.55	12 AM - Mid	1,330	6,250	7,580
Saturday 19	764.89	31.79	12 AM - Mid	889	6,670	7,559
CHANGE IN STORAGE DURING THE WEEK		0.44	* 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	2023	764.89	31.79	6	2015	761.88	28.52
2	2021	764.18	31.01	7	2022	761.17	27.76
3	2017	763.75	30.54	8	2016	761.07	27.65
4	2014	763.71	30.50	9	2018	760.61	27.17
5	2019	762.50	29.19	10	2020	760.46	27.01

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: August 26, 2023

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 19	764.89	31.79	12 AM - Mid	889	6,670	7,559
Sunday 20	764.95	31.86	12 AM - Mid	1,310	6,240	7,550
Monday 21	764.94	31.85	12 AM - Mid	1,780	5,570	7,350
Tuesday 22	764.97	31.88	12 AM - Mid	2,220	5,040	7,260
Wednesday 23	764.77	31.66	12 AM - Mid	3,130	4,380	7,510
Thursday 24	764.60	31.47	12 AM - Mid	3,520	3,880	7,400
Friday 25	764.38	31.23	12 AM - Mid	3,540	3,690	7,230
Saturday 26	764.23	31.07	12 AM - Mid	2,980	3,520	6,500
CHANGE IN STORAGE DURING THE WEEK		-0.73	* 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	2021	765.93	32.94	6	2015	761.04	27.62
2	2023	764.23	31.07	7	2016	760.39	26.94
3	2014	763.49	30.26	8	2022	760.33	26.87
4	2017	763.12	29.85	9	2018	759.92	26.45
5	2019	762.47	29.15	10	2020	759.65	26.17

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
INDIAN LAKE RESERVOIR OPERATION
FOR WEEK ENDING: August 5, 2023

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 29	1,647.21	2.99	12 AM - Mid	156	342	1,430
Sunday 30	1,647.33	3.02	12 AM - Mid	156	946	3,490
Monday 31	1,647.35	3.02	12 AM - Mid	156	916	2,640
Tuesday 1	1,647.32	3.01	12 AM - Mid	156	622	1,990
Wednesday 2	1,647.26	3.00	12 AM - Mid	156	433	1,430
Thursday 3	1,647.23	3.00	12 AM - Mid	156	340	1,220
Friday 4	1,647.27	3.01	12 AM - Mid	156	345	1,680
Saturday 5	1,647.31	3.01	12 AM - Mid	156	853	2,550

CHANGE IN STORAGE DURING THE WEEK	0.02	* 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	2014	1,648.46	3.22	6	2021	1,647.30	3.01
2	2022	1,647.69	3.08	7	2017	1,647.17	2.99
3	2020	1,647.63	3.07	8	2015	1,646.73	2.91
4	2018	1,647.35	3.02	9	2019	1,646.67	2.90
5	2023	1,647.31	3.01	10	2016	1,646.01	2.78

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: August 12, 2023

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 5	1,647.31	3.01	12 AM - Mid	156	853	2,550
6	1,647.31	3.01	12 AM - Mid	156	961	2,440
Monday 7	1,647.32	3.01	12 AM - Mid	156	630	1,930
Tuesday 8	1,647.36	3.02	12 AM - Mid	156	507	2,330
Wednesday 9	1,647.43	3.03	12 AM - Mid	156	1,040	2,960
Thursday 10	1,647.49	3.04	12 AM - Mid	156	1,320	3,280
Friday 11	1,647.53	3.05	12 AM - Mid	156	1,210	3,430
Saturday 12	1,647.56	3.06	12 AM - Mid	156	1,020	2,820

CHANGE IN STORAGE DURING THE WEEK	0.04	* 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	2023	1,647.56	3.06	6	2022	1,647.17	2.99
2	2020	1,647.46	3.04	7	2018	1,646.97	2.95
3	2017	1,647.45	3.04	8	2019	1,646.47	2.86
4	2014	1,647.40	3.03	9	2015	1,646.16	2.81
5	2021	1,647.18	2.99	10	2016	1,645.37	2.68

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: August 19, 2023

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 12	1,647.56	3.06	12 AM - Mid	156	1,020	2,820
Sunday 13	1,647.63	3.07	12 AM - Mid	156	931	2,570
Monday 14	1,647.83	3.11	12 AM - Mid	156	975	2,410
Tuesday 15	1,647.91	3.12	12 AM - Mid	357	743	2,200
Wednesday 16	1,647.85	3.11	12 AM - Mid	445	633	2,120
Thursday 17	1,647.82	3.10	12 AM - Mid	445	799	2,390
Friday 18	1,647.78	3.10	12 AM - Mid	445	786	2,680
Saturday 19	1,647.93	3.12	12 AM - Mid	445	816	3,090

CHANGE IN STORAGE DURING THE WEEK	0.07	* 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	2021	1,648.68	3.26	6	2022	1,646.69	2.90
2	2023	1,647.93	3.12	7	2014	1,646.68	2.90
3	2017	1,647.08	2.97	8	2019	1,646.30	2.83
4	2020	1,647.05	2.97	9	2015	1,645.61	2.72
5	2018	1,646.80	2.92	10	2016	1,645.19	2.65

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: August 26, 2023

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 19	1,647.93	3.12	12 AM - Mid	445	816	3,090
Sunday 20	1,648.00	3.14	12 AM - Mid	445	834	2,740
Monday 21	1,647.94	3.13	12 AM - Mid	445	740	2,280
Tuesday 22	1,647.86	3.11	12 AM - Mid	444	592	2,020
Wednesday 23	1,647.75	3.09	12 AM - Mid	443	453	1,650
Thursday 24	1,647.59	3.06	12 AM - Mid	442	370	1,530
Friday 25	1,647.49	3.04	12 AM - Mid	442	341	1,390
Saturday 26	1,647.36	3.02	12 AM - Mid	442	347	1,510

CHANGE IN STORAGE DURING THE WEEK	-0.10	* 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	2021	1,649.60	3.43	6	2018	1,646.51	2.87
2	2023	1,647.36	3.02	7	2014	1,646.09	2.80
3	2017	1,646.88	2.93	8	2019	1,646.06	2.79
4	2020	1,646.59	2.88	9	2015	1,645.22	2.65
5	2022	1,646.53	2.87	10	2016	1,644.82	2.58

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: [August 5, 2023](#)

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 29	1,675.93	3.89	12 AM -Mid	300	578	1,710
Sunday 30	1,676.14	3.94	12 AM -Mid	300	617	2,840
Monday 31	1,676.24	3.97	12 AM -Mid	300	613	3,110
Tuesday 1	1,676.25	3.97	12 AM -Mid	300	508	2,960
Wednesday 2	1,676.23	3.97	12 AM -Mid	358	422	2,330
Thursday 3	1,676.18	3.95	12 AM -Mid	400	387	1,840
Friday 4	1,676.14	3.94	12 AM -Mid	400	525	1,710
Saturday 5	1,676.25	3.97	12 AM -Mid	400	883	3,780

CHANGE IN STORAGE DURING THE WEEK	0.08
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2022	1,676.48	4.03	6	2016	1,674.83	3.61
2	2021	1,676.29	3.98	7	2019	1,674.58	3.56
3	2023	1,676.25	3.97	8	2015	1,674.36	3.50
4	2014	1,675.62	3.81	9	2020	1,673.30	3.26
5	2017	1,674.99	3.66	10	2018	1,671.80	2.93

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

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
STILLWATER RESERVOIR OPERATION
FOR WEEK ENDING: [August 12, 2023](#)

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 5	1,676.25	3.97	12 AM -Mid	400	883	3,780
Sunday 6	1,676.28	3.98	12 AM -Mid	400	842	4,510
Monday 7	1,676.24	3.97	12 AM -Mid	400	691	4,040
Tuesday 8	1,676.34	3.99	12 AM -Mid	517	1,540	4,550
Wednesday 9	1,678.28	4.50	12 AM -Mid	600	3,160	7,810
Thursday 10	1,678.94	4.68	12 AM -Mid	696	2,030	10,400
Friday 11	1,679.13	4.73	12 AM -Mid	896	1,340	10,900
Saturday 12	1,679.12	4.73	12 AM -Mid	1,000	1,290	9,560

CHANGE IN STORAGE DURING THE WEEK	0.76
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2023	1,679.12	4.73	6	2016	1,674.20	3.47
2	2021	1,676.10	3.93	7	2015	1,674.02	3.42
3	2022	1,676.03	3.91	8	2019	1,673.96	3.41
4	2014	1,674.53	3.54	9	2020	1,672.66	3.12
5	2017	1,674.33	3.50	10	2018	1,670.89	2.74

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

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
STILLWATER RESERVOIR OPERATION
FOR WEEK ENDING: [August 19, 2023](#)

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 12	1,679.12	4.73	12 AM -Mid	1,000	1,290	9,560
Sunday 13	1,679.04	4.70	12 AM -Mid	1,000	1,400	8,230
Monday 14	1,678.94	4.68	12 AM -Mid	1,000	1,370	7,250
Tuesday 15	1,678.82	4.64	12 AM -Mid	1,000	1,290	6,590
Wednesday 16	1,678.68	4.61	12 AM -Mid	1,000	2,190	6,480
Thursday 17	1,678.84	4.65	12 AM -Mid	1,000	3,280	8,480
Friday 18	1,678.84	4.65	12 AM -Mid	1,000	2,270	9,040
Saturday 19	1,679.02	4.70	12 AM -Mid	1,000	2,310	10,300

CHANGE IN STORAGE DURING THE WEEK	-0.03
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2023	1,679.02	4.70	6	2015	1,673.64	3.34
2	2021	1,676.77	4.10	7	2014	1,673.47	3.30
3	2022	1,675.21	3.71	8	2019	1,673.45	3.29
4	2016	1,673.95	3.41	9	2020	1,671.84	2.93
5	2017	1,673.79	3.37	10	2018	1,670.31	2.62

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

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
STILLWATER RESERVOIR OPERATION
FOR WEEK ENDING: [August 26, 2023](#)

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 19	1,679.02	4.70	12 AM -Mid	1,000	2,310	10,300
Sunday 20	1,679.25	4.76	12 AM -Mid	1,000	2,480	11,700
Monday 21	1,679.27	4.77	12 AM -Mid	1,000	1,780	12,100
Tuesday 22	1,679.20	4.75	12 AM -Mid	1,000	1,420	1,100
Wednesday 23	1,679.09	4.72	12 AM -Mid	1,000	1,340	9,150
Thursday 24	1,678.93	4.68	12 AM -Mid	1,000	1,220	7,320
Friday 25	1,678.78	4.63	12 AM -Mid	1,000	1,210	5,880
Saturday 26	1,678.61	4.59	12 AM -Mid	1,000	1,190	4,970

CHANGE IN STORAGE DURING THE WEEK	-0.11
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2023	1,678.61	4.59	6	2015	1,673.16	3.23
2	2021	1,677.90	4.40	7	2014	1,673.08	3.21
3	2022	1,675.19	3.71	8	2019	1,672.96	3.18
4	2016	1,673.61	3.33	9	2020	1,670.77	2.71
5	2017	1,673.50	3.31	10	2018	1,669.87	2.53

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

CHIEF ENGINEER

STATE OF NEW YORK
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT
FULTON CHAIN RESERVOIR OPERATION
FOR WEEK ENDING: **August 5, 2023**

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 29	1,706.92	0.915	145	1,785.91	0.299	86
Sunday 30	1,706.90	0.912	195	1,785.93	0.300	142
Monday 31	1,707.00	0.926	12	1,785.89	0.299	5
Tuesday 1	1,707.01	0.927	12	1,785.93	0.300	5
Wednesday 2	1,707.01	0.927	12	1,785.96	0.301	5
Thursday 3	1,707.01	0.927	12	1,785.98	0.301	5
Friday 4	1,707.02	0.927	12	1,786.01	0.302	5
Saturday 5	1,707.11	0.940	12	1,786.07	0.304	5
CHANGE IN STORAGE		0.025			0.005	

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	2023	1,707.11	0.940	1	2023	1,786.07	0.304
2	2021	1,707.02	0.927	2	2022	1,786.04	0.303
3	2019	1,706.95	0.919	3	2019	1,785.94	0.300
4	2022	1,706.87	0.907	4	2021	1,785.93	0.300
5	2020	1,706.87	0.907	5	2020	1,785.89	0.299

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: [August 12, 2023](#)

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 5	1,707.11	0.940	12	1,786.07	0.304	5
Sunday 6	1,707.13	0.944	12	1,786.08	0.305	5
Monday 7	1,707.14	0.945	214	1,786.10	0.305	42
Tuesday 8	1,706.97	0.922	355	1,786.09	0.305	68
Wednesday 9	1,706.86	0.905	165	1,786.06	0.304	68
Thursday 10	1,706.95	0.919	32	1,786.03	0.303	46
Friday 11	1,707.00	0.926	32	1,786.02	0.303	15
Saturday 12	1,707.01	0.927	32	1,786.04	0.303	15
CHANGE IN STORAGE		-0.013			-0.001	

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	2021	1,707.07	0.934	1	2022	1,786.07	0.304
2	2023	1,707.01	0.927	2	2021	1,786.06	0.304
3	2019	1,707.00	0.926	3	2023	1,786.04	0.303
4	2022	1,706.91	0.913	4	2019	1,785.99	0.302
5	2020	1,706.90	0.912	5	2020	1,785.85	0.297

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: August 19, 2023

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 12	1,707.01	0.927	32	1,786.04	0.303	15
Sunday 13	1,707.07	0.934	32	1,786.13	0.306	15
Monday 14	1,707.08	0.936	113	1,786.23	0.309	65
Tuesday 15	1,707.06	0.933	170	1,786.14	0.307	68
Wednesday 16	1,707.02	0.927	169	1,786.06	0.304	30
Thursday 17	1,707.00	0.926	169	1,786.11	0.306	30
Friday 18	1,706.93	0.916	169	1,786.12	0.306	57
Saturday 19	1,706.97	0.922	169	1,786.14	0.307	77
CHANGE IN STORAGE		-0.006			0.003	

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	2021	1,707.42	0.985	1	2021	1,786.73	0.326
2	2019	1,707.08	0.936	2	2023	1,786.14	0.307
3	2023	1,706.97	0.922	3	2019	1,786.10	0.305
4	2020	1,706.88	0.909	4	2022	1,786.00	0.302
5	2022	1,706.84	0.903	5	2020	1,785.81	0.296

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: **August 26, 2023**

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 19	1,706.97	0.922	169	1,786.14	0.307	77
Sunday 20	1,707.03	0.929	169	1,786.14	0.307	77
Monday 21	1,707.02	0.927	169	1,786.08	0.305	54
Tuesday 22	1,706.98	0.923	169	1,786.04	0.303	38
Wednesday 23	1,706.91	0.913	169	1,786.00	0.302	38
Thursday 24	1,706.85	0.904	168	1,785.95	0.300	37
Friday 25	1,706.79	0.896	89	1,785.91	0.299	22
Saturday 26	1,706.79	0.896	32	1,785.91	0.299	10
CHANGE IN STORAGE		-0.026			-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	2021	1,707.00	0.926	1	2022	1,785.97	0.301
2	2022	1,706.93	0.916	2	2019	1,785.94	0.300
3	2020	1,706.89	0.910	3	2023	1,785.91	0.299
4	2019	1,706.89	0.909	4	2021	1,785.87	0.298
5	2023	1,706.79	0.896	5	2020	1,785.78	0.295

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

**Hudson River Area
Report of the Operations Manager
Sacandaga Field Office at Great Sacandaga Lake
September Board Meeting 2023**

Activity report for August 2023

SFO

- Performed lawn maintenance of facility.
- Cleaned offices and conference room weekly.
- Performed maintenance on vehicles and equipment.
- Installed 330 tons of rip rap for shoreline erosion prevention.
- Attended workboat training and NYS Boater Safety Course.
- Removed 2003 Ford F-250 from service.
- Attended Annual Workplace Training and Ethics Training

Indian Lake

- Coordinated with Frontier Communications to move internet service.

Conklingville Dam

- Read and reported piezometer data including spillway and toe observations daily.
- Performed lawn maintenance on the dam and park.
- Performed maintenance on vehicles and equipment.
- Performed a monthly dow valve test.

Respectfully,

Matthew Ginter

Operations Manager

**Black River Area
Report of the Superintendent
Black River Field Office at the Stillwater Reservoir (BRFO)
July/August 2023**

- Road maintenance, raked, trimming roadsides
- Vehicle/equipment maintenance
- Serviced mowing equipment
- Participated in training
- Participated in FERC inspection at Stillwater Dam
- Prepared facilities for FERC inspection
- Ditch cleaning on north side of SW dam
- Continued mowing at facilities
- Clearing of vegetation at SW spillway
- Continue bridge rail project
- Installed ridge vent on BRFO shop
- Repaired log booms at SW dam
- 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.