

REPORT OF CHIEF ENGINEER  
HUDSON RIVER - BLACK RIVER REGULATING DISTRICT  
BOARD MEETING  
OCTOBER 12, 2021 – LOWVILLE

**HUDSON RIVER AREA - SEPTEMBER SUMMARY**

**Reservoir Operation**

Great Sacandaga Lake

The September average daily release from the Sacandaga Reservoir (Great Sacandaga Lake) was approximately 2,590 cubic feet per second (cfs). The Upper Hudson / Sacandaga River Offer of Settlement target elevation for September 30 is 760.25 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) <sup>(4)</sup>	Deviation (ft) (1)		Release (cfs)	
		From Average	From Offer of Settlement	Conklingville Dam	E.J. West (2) Hydro Plant
Aug. 31	764.80	+5.79	+2.30	0	3,080
Sept. 30	761.4 (e)	+5.1 (e)	+1.2 (e)	0	4,000 (e)

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

Indian Lake Reservoir

The September average daily release from Indian Lake was approximately 499 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	
Aug. 31	1,648.14	+2.16	+1.44	762
Sept. 30	1,642.9 (e)	-1.3 (e)	-3.3 (e)	192 (e)

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

**HUDSON RIVER AREA - SEPTEMBER SUMMARY- continued**

**River Flow**

Hudson River flow, downstream of the confluence with the Sacandaga River, was approximately 5,610 cfs on September 28 and approximately 1,990 cfs above the historic average flow.

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

<b>River</b>	<b>Monthly Average Flow (cfs)</b>	<b>Historic Average Flow (2) (cfs)</b>
<b>Sacandaga</b> at Hope	520 (e)	378
<b>Sacandaga</b> at Stewarts Bridge	2,590 (e)	1,830
<b>Indian</b> at Indian Lake Dam	499 (e)	330
<b>Hudson</b> at Hadley (1)	2,140 (e)	1,340

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

**Precipitation**

Monthly total precipitation measured 86%, 105%, and 136% historic average at Indian Lake, Mayfield, and Conklingville, respectively, as of September 28

Table 4.0 - *Hudson River Basin Precipitation - as of September 28*

<b>Station</b>	<b>Monthly Total (inch)</b>	<b>Historic Average (inch)</b>
<b>Indian Lake</b>	3.26	3.79
<b>Mayfield</b>	4.26	4.05
<b>Conklingville</b>	4.95	3.65

## **HUDSON RIVER AREA - SEPTEMBER SUMMARY- continued**

### **Operation Overview**

Precipitation during the month of September was above average across the Great Sacandaga Lake watershed and below average in Indian Lake watershed. The monthly inflow to Great Sacandaga Lake and Indian Lake reservoir was approximately 150% and 114% of historic average, respectively. Monthly release of water from Great Sacandaga Lake and Indian Lake measured 142% and 205% of historic average, respectively.

### **Great Sacandaga Lake Operation**

Great Sacandaga Lake operation summary report for the period September 1, 2021 through September 28, 2021 is attached. This report includes projected and forecast values for dates after September 28, 2021.

### **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 Administrator's Report.

## BLACK RIVER AREA – SEPTEMBER SUMMARY

### Reservoir Operations

#### Stillwater Reservoir

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

Table 1.0 - *Stillwater Reservoir Elevation and Release*

Date	Daily Average Elevation (ft, NAVD)	Deviation from Average Elevation (ft) (1)	Release (cfs)
Aug. 31	1,677.77	+5.25	400
Sept. 30	1,673.7 (e)	+3.7 (e)	600 (e)

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

#### Sixth Lake Reservoir

The September average daily release from Sixth Lake Reservoir was approximately 13 cfs.

Table 2.0 - *Sixth Lake Reservoir Elevation and Release*

Date	Elevation (1) (ft, NAVD)	Deviation from Average Elevation (2) (ft)	Release (cfs)
Aug. 31	1,785.86	+0.10	13
Sept. 30	1,786.0 (e)	+0.7 (e)	20 (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 September average daily release from Old Forge Reservoir was approximately 34 cfs.

Table 3.0 - *Old Forge Reservoir Elevation and Release*

Date	Elevation (1) (ft, NAVD)	Deviation from Average Elevation (2) (ft)	Release (cfs)
Aug. 31	1706.88	-0.06	41
Sept. 30	1,707.0 (e)	+0.4 (e)	42 (e)

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

## BLACK RIVER AREA - SEPTEMBER SUMMARY - continued

### River Flow

The average daily Black River flow, as measured at the Watertown gauge, was approximately 3,010 cfs on September 28.

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

<b>River</b>	<b>Monthly Average Flow (cfs)</b>	<b>Historic Average Flow (1) (cfs)</b>
<b>Moose</b> at McKeever	460 (e)	429
<b>Beaver</b> at Croghan	680 (e)	510
<b>Black</b> at Watertown	2,540 (e)	2,160

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

### Precipitation

Monthly total precipitation measured 74%, 69%, 76% of historic average at Stillwater, Old Forge, and Sixth Lake, respectively, as of September 28.

Table 5.0 - *Black River Basin Precipitation - as of September 28*

<b>Station</b>	<b>Monthly Total (inch)</b>	<b>Historic Average (inch)</b>
<b>Stillwater</b>	3.58	4.84
<b>Old Forge</b>	3.22	4.66
<b>Sixth Lake</b>	3.09	4.07

## **BLACK RIVER AREA - SEPTEMBER SUMMARY - continued**

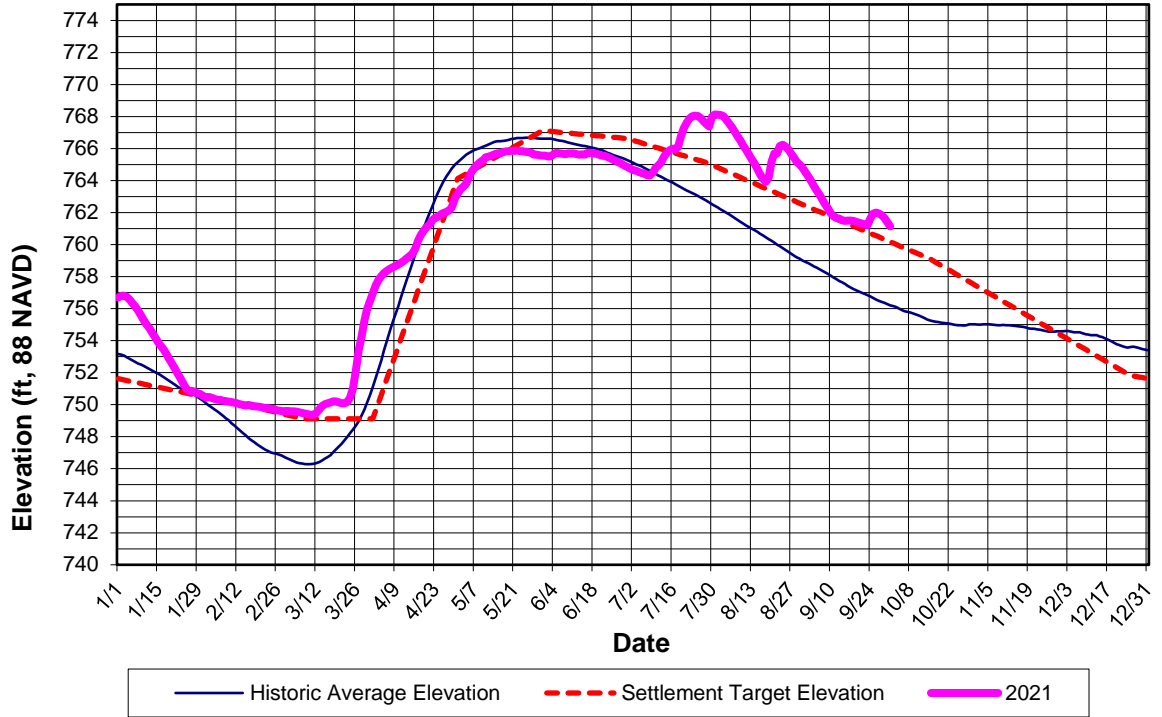
### **Operation Overview**

Precipitation in the month of September was below average at Stillwater, Old Forge and Sixth Lake. The monthly inflow to Stillwater Reservoir was approximately 94% of historic average. The inflow to Sixth Lake and Old Forge Reservoir totaled 0.03 and 0.10 billion cubic feet, respectively, in September. Release of water from Stillwater Reservoir averaged 149% of historic discharge.

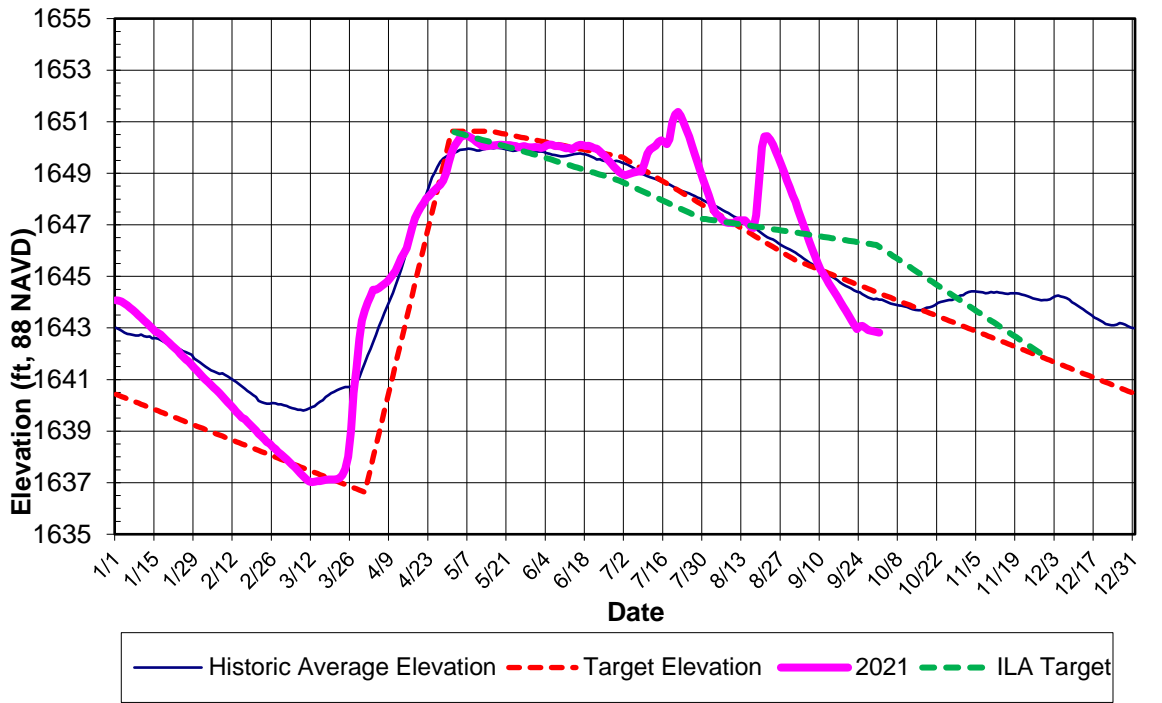
### **Black River Area Staff Activities**

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

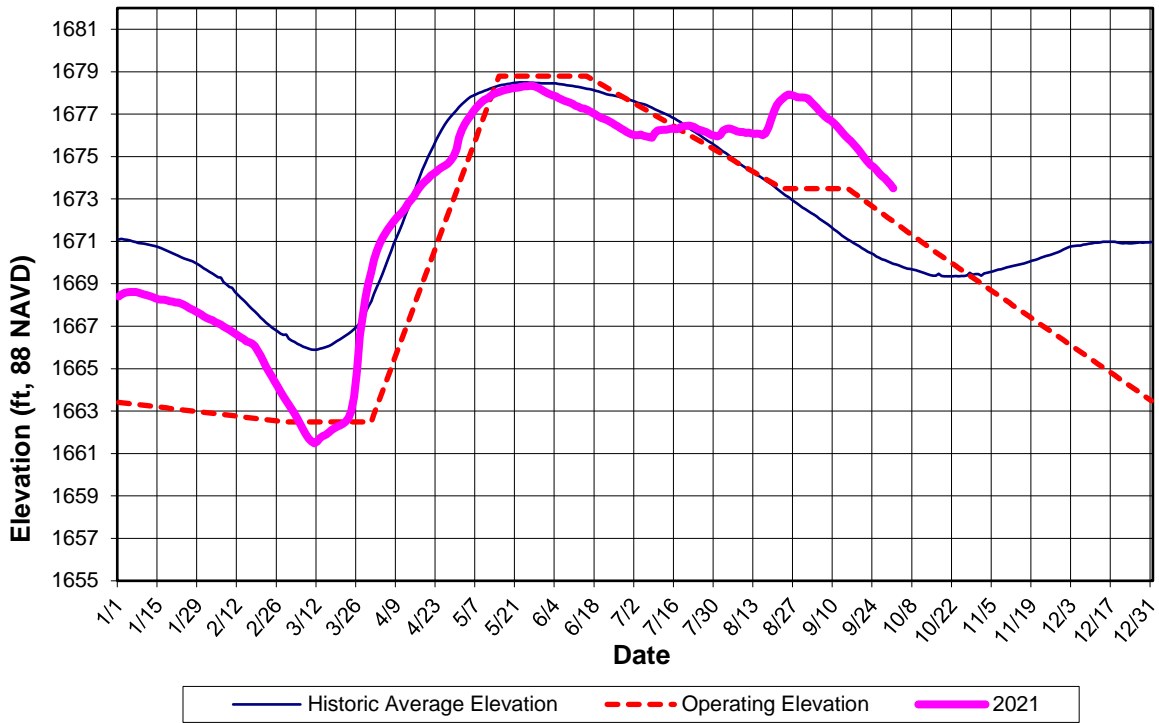
### Great Sacandaga Lake 2021 Reservoir Elevation



### Indian Lake 2021 Reservoir Elevation

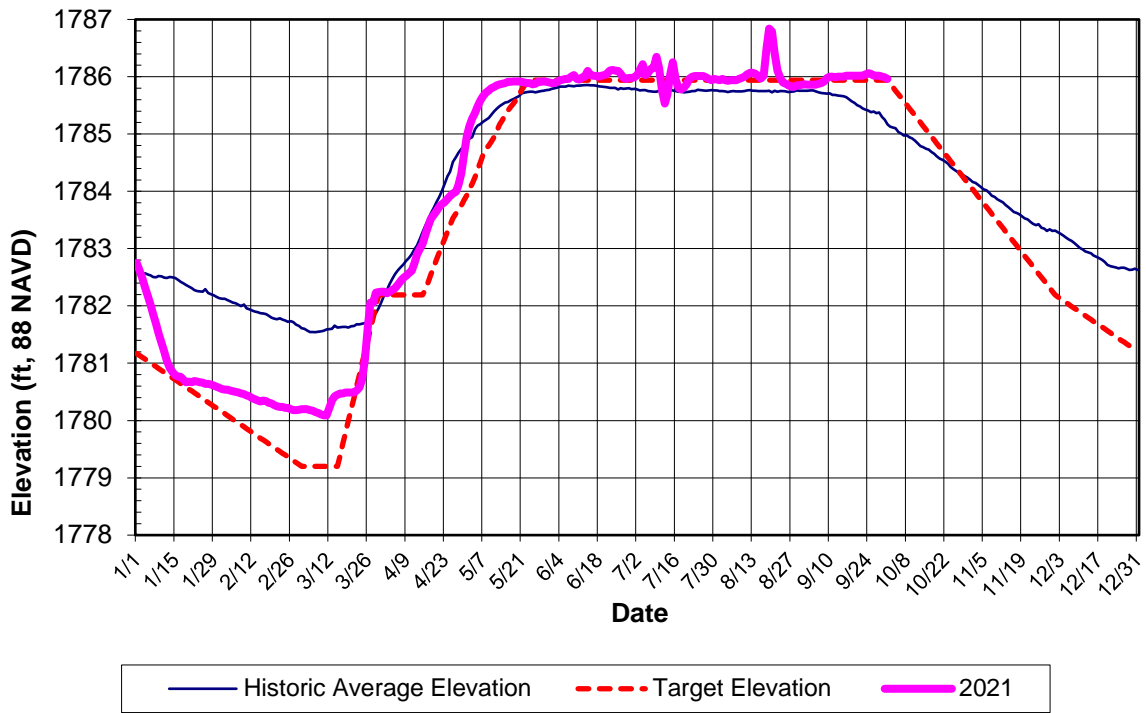


### Stillwater Reservoir 2021 Reservoir Elevation

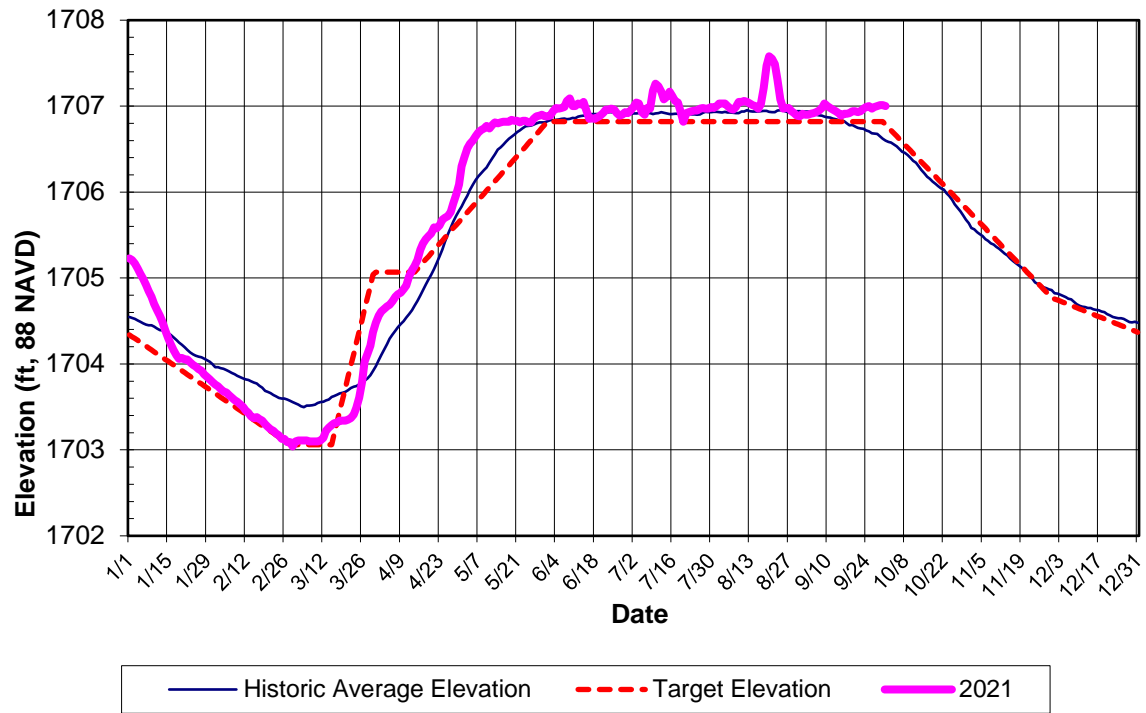




### Sixth Lake 2021 Reservoir Elevation



### Old Forge 2021 Reservoir Elevation



**SACANDAGA RESERVOIR ELEVATION CALCULATOR**

Datum:

**1988 NAVD**

**Settlement Parameters**

Date	9/29/2021	
Target Elevation	760.32	
Actual "Level"	3.00	
"Level 2.5 threshold"	757.47	
"Level 1.2 threshold"	747.74	
<b>Hudson River Target</b>	<b>Elevation</b>	<b>Level</b>
Maximum Flow (cfs)	8000	7500
Minimum Flow (cfs)	n/a	2000
Min. Rec/Rafting Hours (hrs)	0	

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	9/29/2021	
Day of Year	5386	
Starting Elevation (ft)	761.79	761.66
Average Elevation	761.66	
Flow Below Hadley (cfs)	6700	
Today's Release	4000	
Tomorrow's Release	4000	

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

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

ACTUAL High Value  
SCHEDULED Low Value  
ESTIMATED Instant. (min + rafting)  
TO BE CHANGED  
Spillway Crest 770.12 ft 88 NAVD

Starting Date 12:00 AM	Starting Elevation	Net Average Inflow	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.	
			E.J. West	Valves	Spillway	Average Release				Maximum (Table F - Elev.)	Minimum (Table C - Level)	Maximum (Table D - Elev.)						Maximum (Table E - Level)
9/1/2021	764.65	700	4040	0	0	4040	4140	3.24	2510	6550	2480	8000	7980	764.38	9/2/2021	764.52	762.43	758.92
9/2/2021	764.38	700	4170	0	0	4170	4047	3.20	2270	6440	2400	8000	7900	764.10	9/3/2021	764.24	762.35	758.83
9/3/2021	764.10	300	4090	0	0	4090	4000	3.17	2180	6270	2340	8000	7840	763.79	9/4/2021	763.95	762.27	758.74
9/4/2021	763.79	700	4100	0	0	4100	4000	3.15	1890	5990	2300	8000	7800	763.52	9/5/2021	763.66	762.20	758.65
9/5/2021	763.52	400	4100	0	0	4100	4000	3.12	1770	5870	2240	8000	7740	763.22	9/6/2021	763.37	762.12	758.55
9/6/2021	763.22	500	4110	0	0	4110	4000	3.10	1700	5810	2200	8000	7700	762.93	9/7/2021	763.08	762.05	758.45
9/7/2021	762.93	400	4110	0	0	4110	4000	3.08	1650	5760	2160	8000	7660	762.63	9/8/2021	762.78	761.97	758.36
9/8/2021	762.63	700	4100	0	0	4100	4000	3.06	1640	5740	2120	8000	7620	762.35	9/9/2021	762.49	761.90	758.26
9/9/2021	762.35	1200	4050	0	0	4050	4000	3.04	1980	6030	2080	8000	7580	762.12	9/10/2021	762.24	761.82	758.16
9/10/2021	762.12	700	4000	0	0	4000	4000	3.02	2340	6340	2040	8000	7540	761.85	9/11/2021	761.99	761.75	758.06
9/11/2021	761.85	500	2080	0	0	2080	4000	3.01	2090	4170	2020	8000	7520	761.72	9/12/2021	761.79	761.67	757.95
9/12/2021	761.72	100	1310	0	0	1310	4000	3.00	1840	3150	2000	8000	7500	761.62	9/13/2021	761.67	761.60	757.83
9/13/2021	761.62	400	1000	0	0	1000	4000	3.00	1700	2700	2000	8000	7500	761.57	9/14/2021	761.60	761.52	757.72
9/14/2021	761.57	1000	2060	0	0	2060	4000	3.00	1550	3610	2000	8000	7500	761.48	9/15/2021	761.53	761.45	757.64
9/15/2021	761.48	1400	998	0	0	998	4000	3.00	1640	2638	2000	8000	7500	761.51	9/16/2021	761.50	761.37	757.54
9/16/2021	761.51	900	1010	0	0	1010	4000	3.00	1650	2660	2000	8000	7500	761.50	9/17/2021	761.51	761.30	757.42
9/17/2021	761.50	800	996	0	0	996	4000	3.00	1620	2616	2000	8000	7500	761.48	9/18/2021	761.49	761.22	757.32
9/18/2021	761.48	1000	1290	0	0	1290	4000	3.00	1330	2620	2000	8000	7500	761.45	9/19/2021	761.47	761.15	757.21
9/19/2021	761.45	500	1300	0	0	1300	4000	3.00	1300	2600	2000	8000	7500	761.38	9/20/2021	761.42	761.07	757.13
9/20/2021	761.38	600	1000	0	0	1000	4000	3.00	1220	2220	2000	8000	7500	761.34	9/21/2021	761.36	761.00	757.06
9/21/2021	761.34	300	1000	0	0	1000	4000	3.00	1100	2100	2000	8000	7500	761.28	9/22/2021	761.31	760.92	756.98
9/22/2021	761.28	300	1010	0	0	1010	4000	3.00	1140	2150	2000	8000	7500	761.22	9/23/2021	761.25	760.85	756.91
9/23/2021	761.22	3300	1030	0	0	1030	4000	3.00	1060	2090	2000	8000	7500	761.40	9/24/2021	761.31	760.77	756.84
9/24/2021	761.40	8200	2540	0	0	2540	4000	3.00	3300	5840	2000	8000	7500	761.85	9/25/2021	761.63	760.70	756.75
9/25/2021	761.85	3900	2450	0	0	2450	4000	3.00	5280	7730	2000	8000	7500	761.96	9/26/2021	761.91	760.62	756.65
9/26/2021	761.96	2500	2560	0	0	2560	4000	3.00	4550	7110	2000	8000	7500	761.95	9/27/2021	761.96	760.55	756.56
9/27/2021	761.95	2200	2490	0	0	2490	4000	3.00	3570	6060	2000	8000	7500	761.92	9/28/2021	761.94	760.47	756.48
9/28/2021	761.92	1000	2570	0	0	2570	4000	3.00	3040	5610	2000	8000	7500	761.79	9/29/2021	761.86	760.40	756.41
9/29/2021	761.79	900	4000	0	0	4000	4000	3.00	2700	6700	2000	8000	7500	761.53	9/30/2021	761.66	760.32	756.34
9/30/2021	761.53	800	4000	0	0	4000	4000	3.00	2500	6500	2000	8000	7500	761.27	10/1/2021	761.40	760.25	756.27
10/1/2021	761.27	700	4000	0	0	4000	4000	3.00	2100	6100	2000	8000	7500	761.00	10/2/2021	761.14	760.17	756.20
10/2/2021	761.00	600	4000	0	0	4000	4000	3.00	1900	5900	2000	8000	7500	760.72	10/3/2021		760.02	756.15
6/6/2020	767.29	1000	4000	0	0	4000	5487	3.00	500	4500	2000	8000	7500	777.12	3/15/2019	#N/A	#N/A	#N/A

Signature: \_\_\_\_\_

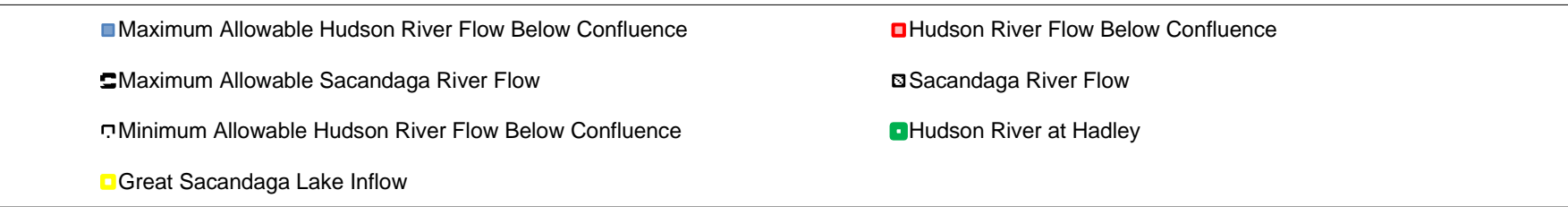
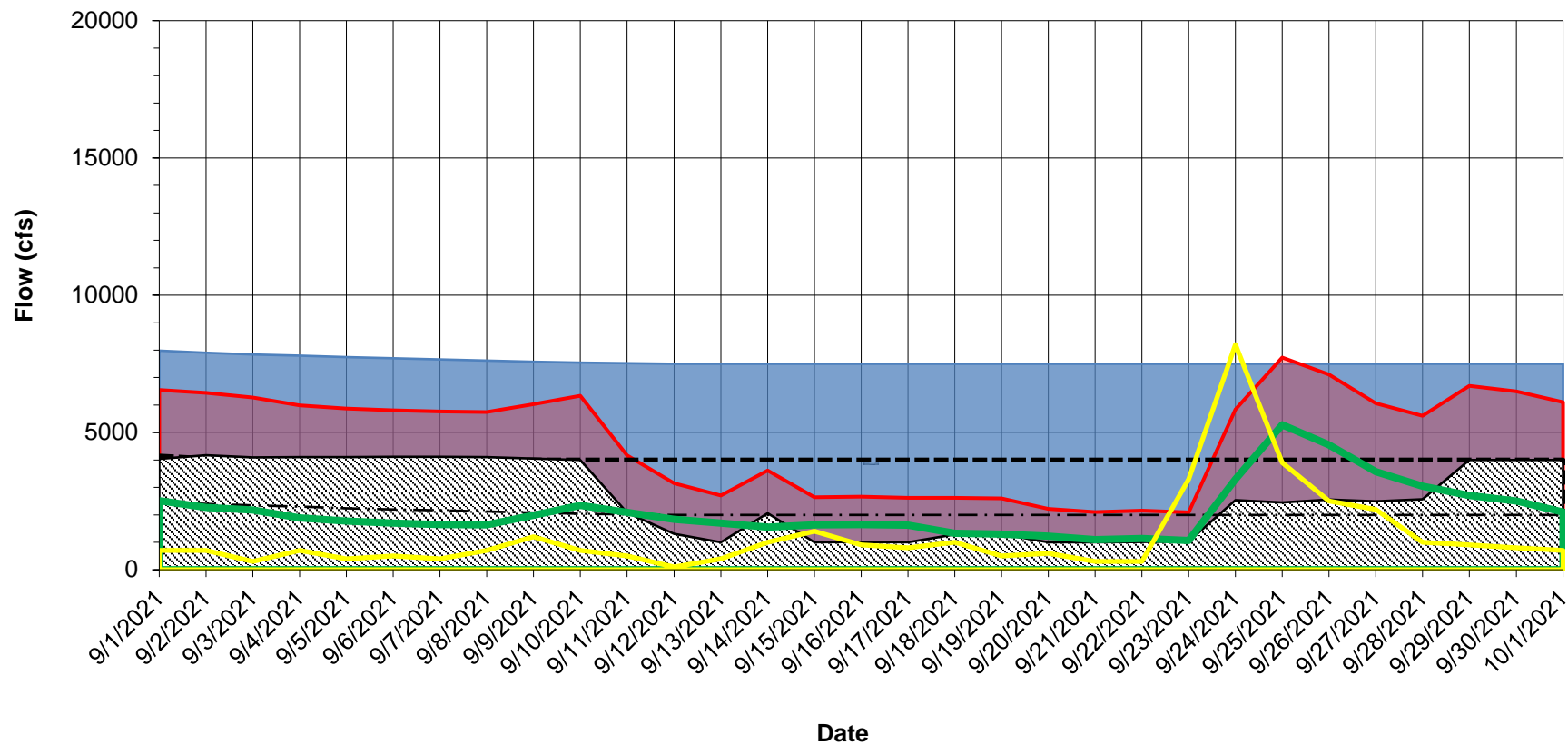
Date: \_\_\_\_\_

**GREAT SACANDAGA LAKE  
RESERVOIR OPERATION SUMMARY**

Print Date: 9/29/2021  
Period of Record: 9/1/2021 to 9/29/2021

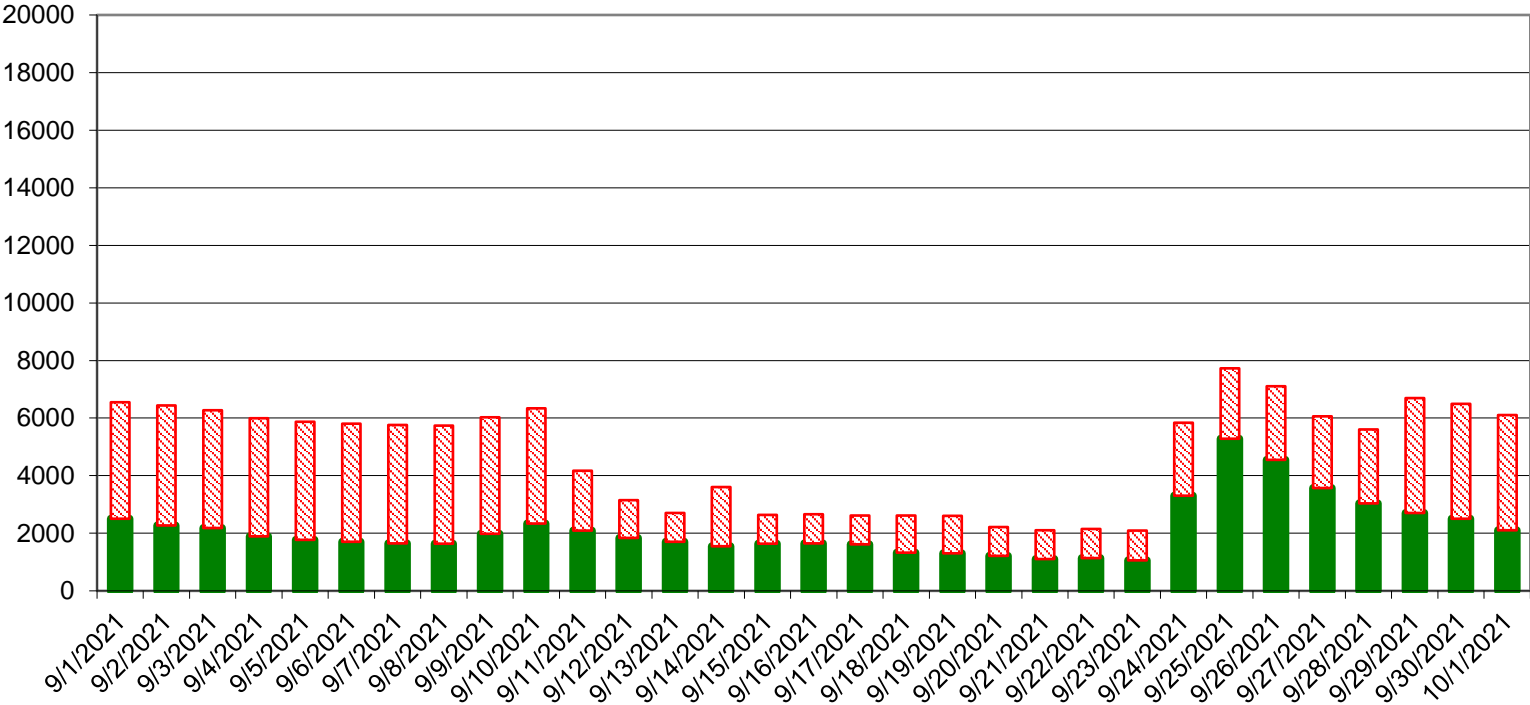
Starting Date 12:00 AM	Daily Avg. Elevation	Net Average Inflow	Sacandaga River Flow Average Release      Maximum (Table F - Elev.)		Settlement Level	Hudson at Hadley	Hudson River Below Confluence	Hudson River Target Flow Minimum (Table B - Level)      Maximum (Table D & E)		Maximum Allowable Sacandaga
9/1/2021	764.52	700	4040	4140	3.24	2510	6550	2480	7980	4233
9/2/2021	764.24	700	4170	4047	3.20	2270	6440	2400	7900	4093
9/3/2021	763.95	300	4090	4000	3.17	2180	6270	2340	7840	4000
9/4/2021	763.66	700	4100	4000	3.15	1890	5990	2300	7800	4000
9/5/2021	763.37	400	4100	4000	3.12	1770	5870	2240	7740	4000
9/6/2021	763.08	500	4110	4000	3.10	1700	5810	2200	7700	4000
9/7/2021	762.78	400	4110	4000	3.08	1650	5760	2160	7660	4000
9/8/2021	762.49	700	4100	4000	3.06	1640	5740	2120	7620	4000
9/9/2021	762.24	1200	4050	4000	3.04	1980	6030	2080	7580	4000
9/10/2021	761.99	700	4000	4000	3.02	2340	6340	2040	7540	4000
9/11/2021	761.79	500	2080	4000	3.01	2090	4170	2020	7520	4000
9/12/2021	761.67	100	1310	4000	3.00	1840	3150	2000	7500	4000
9/13/2021	761.60	400	1000	4000	3.00	1700	2700	2000	7500	4000
9/14/2021	761.53	1000	2060	4000	3.00	1550	3610	2000	7500	4000
9/15/2021	761.50	1400	998	4000	3.00	1640	2638	2000	7500	4000
9/16/2021	761.51	900	1010	4000	3.00	1650	2660	2000	7500	4000
9/17/2021	761.49	800	996	4000	3.00	1620	2616	2000	7500	4000
9/18/2021	761.47	1000	1290	4000	3.00	1330	2620	2000	7500	4000
9/19/2021	761.42	500	1300	4000	3.00	1300	2600	2000	7500	4000
9/20/2021	761.36	600	1000	4000	3.00	1220	2220	2000	7500	4000
9/21/2021	761.31	300	1000	4000	3.00	1100	2100	2000	7500	4000
9/22/2021	761.25	300	1010	4000	3.00	1140	2150	2000	7500	4000
9/23/2021	761.31	3300	1030	4000	3.00	1060	2090	2000	7500	4000
9/24/2021	761.63	8200	2540	4000	3.00	3300	5840	2000	7500	4000
9/25/2021	761.91	3900	2450	4000	3.00	5280	7730	2000	7500	4000
9/26/2021	761.96	2500	2560	4000	3.00	4550	7110	2000	7500	4000
9/27/2021	761.94	2200	2490	4000	3.00	3570	6060	2000	7500	4000
9/28/2021	761.86	1000	2570	4000	3.00	3040	5610	2000	7500	4000
9/29/2021	761.66	900	4000	4000	3.00	2700	6700	2000	7500	4000
9/30/2021	761.40	800	4000	4000	3.00	2500	6500	2000	7500	4000
10/1/2021	761.14	700	4000	4000	3.00	2100	6100	2000	7500	4000

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



# Great Sacandaga Lake GSL Release and Natural Hudson River Flow

Total Flow Below Confluence (cfs)



Date



STATE OF NEW YORK  
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT  
**SACANDAGA RESERVOIR OPERATION**  
 FOR WEEK ENDING: September 4, 2021

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. <sup>(1)</sup>	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 28	765.48	32.44	12 AM - Mid	4,450	3,120	7,570
Sunday 29	765.27	32.21	12 AM - Mid	4,440	2,880	7,320
Monday 30	765.04	31.96	12 AM - Mid	3,120	2,710	5,830
Tuesday 31	764.84	31.74	12 AM - Mid	3,080	2,590	5,670
Wednesday 1	764.65	31.53	12 AM - Mid	4,040	2,510	6,550
Thursday 2	764.38	31.23	12 AM - Mid	4,170	2,270	6,440
Friday 3	764.11	30.93	12 AM - Mid	4,090	2,180	6,270
Saturday 4	763.79	30.59	12 AM - Mid	4,100	1,890	5,990
CHANGE IN STORAGE DURING THE WEEK		-1.86	* 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	763.79	30.59	6	2012	760.18	26.72
2	2014	762.32	28.99	7	2015	759.86	26.38
3	2017	762.27	28.94	8	2016	759.26	25.76
4	2013	761.92	28.56	9	2018	758.95	25.44
5	2019	761.77	28.40	10	2020	758.79	25.27

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: September 11, 2021

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. <sup>(1)</sup>	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 4	763.79	30.59	12 AM - Mid	4,100	1,890	5,990
Sunday 5	763.52	30.29	12 AM - Mid	4,100	1,770	5,870
Monday 6	763..22	#N/A	12 AM - Mid	4,110	1,700	5,810
Tuesday 7	762.93	29.65	12 AM - Mid	4,110	1,650	5,760
Wednesday 8	762.61	29.30	12 AM - Mid	4,100	1,640	5,740
Thursday 9	762.30	28.97	12 AM - Mid	4,050	1,980	6,030
Friday 10	762.10	28.75	12 AM - Mid	4,000	2,340	6,340
Saturday 11	761.88	28.52	12 AM - Mid	2,080	2,090	4,170
CHANGE IN STORAGE DURING THE WEEK		-2.07	* 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	2017	762.03	28.68	6	2012	759.55	26.06
2	2021	761.88	28.52	7	2015	758.89	25.38
3	2014	761.68	28.30	8	2016	758.45	24.92
4	2019	761.32	27.92	9	2018	758.44	24.91
5	2013	761.12	27.70	10	2020	757.86	24.32

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

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 CHIEF ENGINEER

STATE OF NEW YORK  
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT  
**SACANDAGA RESERVOIR OPERATION**  
 FOR WEEK ENDING: September 18, 2021

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. <sup>(1)</sup>	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 11	761.88	28.52	12 AM - Mid	2,080	2,090	4,170
Sunday 12	761.72	28.35	12 AM - Mid	1,310	1,840	3,150
Monday 13	761.57	28.19	12 AM - Mid	1,000	1,700	2,700
Tuesday 14	761.64	28.26	12 AM - Mid	2,060	1,550	3,610
Wednesday 15	761.47	28.08	12 AM - Mid	998	1,640	2,638
Thursday 16	761.49	28.10	12 AM - Mid	1,010	1,650	2,660
Friday 17	761.52	28.13	12 AM - Mid	996	1,620	2,616
Saturday 18	761.51	28.12	12 AM - Mid	1,290	1,330	2,620
CHANGE IN STORAGE DURING THE WEEK		-0.40	* 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	761.51	28.12	6	2012	758.87	25.36
2	2017	761.50	28.11	7	2015	758.38	24.85
3	2014	760.92	27.49	8	2018	758.29	24.76
4	2019	760.70	27.26	9	2016	757.54	24.00
5	2013	760.49	27.04	10	2020	756.91	23.36

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

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 CHIEF ENGINEER



STATE OF NEW YORK  
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT  
**SACANDAGA RESERVOIR OPERATION**  
 FOR WEEK ENDING: September 25, 2021

DATE	SACANDAGA RESERVOIR			HUDSON RIVER FLOW		
	WATER SURFACE ELEV. 12 A.M.	TOTAL STORAGE B.C.F. <sup>(1)</sup>	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	HADLEY AVG. DAILY C.F.S.	SPIER FALLS AVG. DAILY C.F.S.
Saturday 18	761.51	28.12	12 AM - Mid	1,290	1,330	2,620
Sunday 19	761.43	28.04	12 AM - Mid	1,300	1,300	2,600
Monday 20	761.36	27.96	12 AM - Mid	1,000	1,220	2,220
Tuesday 21	761.29	27.89	12 AM - Mid	1,000	1,100	2,100
Wednesday 22	761.30	27.90	12 AM - Mid	1,010	1,140	2,150
Thursday 23	761.22	27.81	12 AM - Mid	1,030	1,060	2,090
Friday 24	761.42	28.03	12 AM - Mid	2,540	3,300	5,840
Saturday 25	761.85	28.49	12 AM - Mid	2,450	5,280	7,730
CHANGE IN STORAGE DURING THE WEEK		0.36	* 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	761.85	28.49	6	2012	758.70	25.18
2	2017	760.91	27.48	7	2018	757.67	24.13
3	2014	760.24	26.78	8	2015	757.59	24.05
4	2019	760.08	26.61	9	2016	756.83	23.28
5	2013	759.85	26.37	10	2020	755.93	22.39

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

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 CHIEF ENGINEER

STATE OF NEW YORK  
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT  
**INDIAN LAKE RESERVOIR OPERATION**  
FOR WEEK ENDING: September 4, 2021

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 28	1,649.16	3.35	12 AM - Mid	772	196	1,470
Sunday 29	1,648.87	3.29	12 AM - Mid	769	178	1,370
Monday 30	1,648.61	3.24	12 AM - Mid	765	197	1,330
Tuesday 31	1,648.29	3.19	12 AM - Mid	760	206	1,410
Wednesday 1	1,647.99	3.13	12 AM - Mid	756	192	1,260
Thursday 2	1,647.69	3.08	12 AM - Mid	752	173	1,250
Friday 3	1,647.37	3.02	12 AM - Mid	750	157	1,150
Saturday 4	1,647.07	2.97	12 AM - Mid	748	143	1,170
CHANGE IN STORAGE DURING THE WEEK		-0.38	* 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	2021	1,647.07	2.97	6	2013	1,645.37	2.68
2	2020	1,646.25	2.83	7	2014	1,644.79	2.58
3	2017	1,646.14	2.81	8	2016	1,644.30	2.49
4	2018	1,646.10	2.80	9	2015	1,644.28	2.49
5	2019	1,645.90	2.77	10	2012	1,643.49	2.36

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

Datum: NAVD 88

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CHIEF ENGINEER

STATE OF NEW YORK  
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT  
**INDIAN LAKE RESERVOIR OPERATION**  
 FOR WEEK ENDING: September 11, 2021

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 4	1,647.13	2.98	12 AM - Mid	744	143	1,170
Sunday 5	1,646.80	2.92	12 AM - Mid	739	131	1,110
Monday 6	1,646.51	2.87	12 AM - Mid	734	127	1,080
Tuesday 7	1,646.23	2.82	12 AM - Mid	730	129	1,100
Wednesday 8	1,645.93	2.77	12 AM - Mid	727	138	1,070
Thursday 9	1,645.66	2.73	12 AM - Mid	722	234	1,470
Friday 10	1,645.37	2.67	12 AM - Mid	523	284	1,480
Saturday 11	1,645.19	2.65	12 AM - Mid	438	254	1,280
CHANGE IN STORAGE DURING THE WEEK		-0.33	* 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	2017	1,646.07	2.79	6	2013	1,644.90	2.60
2	2018	1,645.92	2.77	7	2014	1,644.18	2.47
3	2020	1,645.78	2.75	8	2015	1,643.69	2.39
4	2019	1,645.64	2.72	9	2016	1,643.64	2.38
5	2021	1,645.19	2.65	10	2012	1,643.07	2.29

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

Datum: NAVD 88

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CHIEF ENGINEER

STATE OF NEW YORK  
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT  
**INDIAN LAKE RESERVOIR OPERATION**  
 FOR WEEK ENDING: September 18, 2021

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 11	1,645.19	2.65	12 AM - Mid	438	254	1,280
Sunday 12	1,644.99	2.61	12 AM - Mid	440	220	1,090
Monday 13	1,644.84	2.59	12 AM - Mid	438	188	925
Tuesday 14	1,644.65	2.55	12 AM - Mid	436	163	927
Wednesday 15	1,644.47	2.52	12 AM - Mid	435	151	820
Thursday 16	1,644.31	2.50	12 AM - Mid	432	153	924
Friday 17	1,644.13	2.46	12 AM - Mid	430	150	804
Saturday 18	1,643.95	2.43	12 AM - Mid	428	145	869

CHANGE IN STORAGE DURING THE WEEK	-0.21	* 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	2018	1,645.87	2.76	6	2021	1,643.95	2.43
2	2017	1,645.67	2.73	7	2014	1,643.73	2.40
3	2019	1,645.30	2.66	8	2015	1,643.42	2.35
4	2020	1,645.26	2.66	9	2016	1,642.97	2.27
5	2013	1,644.46	2.52	10	2012	1,642.55	2.21

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

Datum: NAVD 88

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 CHIEF ENGINEER

STATE OF NEW YORK  
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT  
**INDIAN LAKE RESERVOIR OPERATION**  
 FOR WEEK ENDING: September 25, 2021

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 18	1,643.95	2.43	12 AM - Mid	428	145	869
Sunday 19	1,643.77	2.40	12 AM - Mid	426	148	815
Monday 20	1,643.57	2.37	12 AM - Mid	425	131	712
Tuesday 21	1,643.41	2.34	12 AM - Mid	423	117	777
Wednesday 22	1,643.21	2.31	12 AM - Mid	421	105	659
Thursday 23	1,643.02	2.28	12 AM - Mid	421	103	761
Friday 24	1,643.04	2.29	12 AM - Mid	426	436	2,280
Saturday 25	1,643.09	2.29	12 AM - Mid	421	1,020	3,400

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

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2018	1,645.56	2.71	6	2014	1,643.13	2.30
2	2017	1,645.17	2.64	7	2021	1,643.09	2.29
3	2019	1,644.90	2.59	8	2015	1,642.88	2.26
4	2020	1,644.77	2.57	9	2012	1,642.49	2.20
5	2013	1,643.93	2.43	10	2016	1,642.47	2.19

CAPACITY AT SPILLWAY CREST (EL 1651.01) 3.7 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: [September 4, 2021](#)

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 28	1,677.84	4.38	12 AM -Mid	400	353	3,420
Sunday 29	1,677.76	4.36	12 AM -Mid	400	542	3,170
Monday 30	1,677.78	4.36	12 AM -Mid	400	561	3,810
Tuesday 31	1,677.80	4.37	12 AM -Mid	400	534	3,650
Wednesday 1	1,677.76	4.36	12 AM -Mid	517	560	3,210
Thursday 2	1,677.66	4.33	12 AM -Mid	600	577	2,760
Friday 3	1,677.51	4.30	12 AM -Mid	600	712	2,380
Saturday 4	1,677.38	4.26	12 AM -Mid	600	734	2,410

CHANGE IN STORAGE DURING THE WEEK	-0.12
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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	1,677.38	4.26	6	2014	1,672.33	3.04
2	2016	1,672.98	3.19	7	2013	1,671.92	2.95
3	2017	1,672.72	3.13	8	2020	1,669.58	2.48
4	2019	1,672.68	3.12	9	2012	1,669.42	2.45
5	2015	1,672.37	3.05	10	2018	1,669.03	2.39

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: [September 11, 2021](#)

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 4	1,677.38	4.26	12 AM -Mid	600	734	2,410
Sunday 5	1,677.24	4.22	12 AM -Mid	600	697	2,290
Monday 6	1,677.09	4.18	12 AM -Mid	600	721	2,320
Tuesday 7	1,676.95	4.15	12 AM -Mid	600	699	2,390
Wednesday 8	1,676.81	4.11	12 AM -Mid	600	717	2,410
Thursday 9	1,676.76	4.10	12 AM -Mid	600	725	2,450
Friday 10	1,676.65	4.07	12 AM -Mid	600	801	3,040
Saturday 11	1,676.52	4.04	12 AM -Mid	600	742	3,140
CHANGE IN STORAGE DURING THE WEEK		-0.22				

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2021	1,676.52	4.04	6	2014	1,671.59	2.88
2	2017	1,672.73	3.13	7	2013	1,671.12	2.78
3	2019	1,672.62	3.11	8	2012	1,668.81	2.35
4	2016	1,672.18	3.01	9	2020	1,668.74	2.34
5	2015	1,671.78	2.92	10	2018	1,668.16	2.25

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: [September 18, 2021](#)

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 11	1,676.52	4.04	12 AM -Mid	600	742	3,140
Sunday 12	1,676.36	4.00	12 AM -Mid	600	649	2,630
Monday 13	1,676.22	3.96	12 AM -Mid	600	705	2,300
Tuesday 14	1,676.07	3.92	12 AM -Mid	600	727	2,310
Wednesday 15	1,675.90	3.88	12 AM -Mid	600	665	2,400
Thursday 16	1,675.82	3.86	12 AM -Mid	600	686	2,210
Friday 17	1,675.66	3.82	12 AM -Mid	600	670	2,230
Saturday 18	1,675.51	3.78	12 AM -Mid	600	720	2,270

CHANGE IN STORAGE DURING THE WEEK	-0.25
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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	1,675.51	3.78	6	2014	1,670.89	2.74
2	2019	1,672.17	3.01	7	2013	1,670.36	2.63
3	2017	1,672.16	3.01	8	2012	1,668.09	2.23
4	2015	1,671.42	2.85	9	2020	1,667.71	2.17
5	2016	1,671.10	2.78	10	2018	1,667.22	2.09

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: [September 25, 2021](#)

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 18	1,675.51	3.78	12 AM -Mid	600	720	2,270
Sunday 19	1,675.35	3.74	12 AM -Mid	600	630	2,200
Monday 20	1,675.19	3.71	12 AM -Mid	600	646	2,110
Tuesday 21	1,675.02	3.66	12 AM -Mid	600	644	2,090
Wednesday 22	1,674.83	3.61	12 AM -Mid	600	647	1,930
Thursday 23	1,674.68	3.58	12 AM -Mid	600	677	1,860
Friday 24	1,674.57	3.55	12 AM -Mid	600	689	2,090
Saturday 25	1,674.46	3.53	12 AM -Mid	600	674	3,250

CHANGE IN STORAGE DURING THE WEEK	-0.26
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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	1,674.46	3.53	6	2014	1,670.00	2.55
2	2019	1,671.64	2.89	7	2013	1,669.53	2.47
3	2017	1,671.43	2.85	8	2012	1,667.59	2.15
4	2015	1,670.87	2.73	9	2020	1,666.80	2.02
5	2016	1,670.29	2.61	10	2018	1,666.26	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  
**FULTON CHAIN RESERVOIR OPERATION**

FOR WEEK ENDING: [September 4, 2021](#)

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 28	1,706.97	0.922	84	1,785.84	0.297	19
Sunday 29	1,706.90	0.912	84	1,785.82	0.296	19
Monday 30	1,706.91	0.913	83	1,785.85	0.297	19
Tuesday 31	1,706.90	0.912	41	1,785.86	0.298	13
Wednesday 1	1,706.91	0.913	16	1,785.87	0.298	10
Thursday 2	1,706.92	0.915	16	1,785.86	0.298	10
Friday 3	1,706.90	0.912	16	1,785.86	0.298	10
Saturday 4	1,706.90	0.912	16	1,785.86	0.298	10
CHANGE IN STORAGE		-0.010			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	2020	1,706.99	0.924	1	2019	1,786.11	0.306
2	2017	1,706.96	0.920	2	2017	1,785.87	0.298
3	2021	1,706.90	0.912	3	2021	1,785.86	0.298
4	2018	1,706.90	0.910	4	2020	1,785.85	0.297
5	2019	1,706.88	0.908	5	2018	1,785.77	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

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CHIEF ENGINEER

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

FOR WEEK ENDING: [September 11, 2021](#)

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 4	1,706.90	0.912	16	1,785.86	0.298	10
Sunday 5	1,706.92	0.915	16	1,785.87	0.298	10
Monday 6	1,706.93	0.916	16	1,785.87	0.298	10
Tuesday 7	1,706.94	0.917	16	1,785.89	0.299	10
Wednesday 8	1,706.96	0.920	16	1,785.89	0.299	10
Thursday 9	1,707.03	0.929	39	1,785.97	0.301	10
Friday 10	1,707.02	0.927	52	1,785.99	0.302	10
Saturday 11	1,707.00	0.926	52	1,786.00	0.302	10
CHANGE IN STORAGE		0.014			0.004	

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	1,707.01	0.927	1	2019	1,786.04	0.303
2	2021	1,707.00	0.926	2	2021	1,786.00	0.302
3	2018	1,706.92	0.913	3	2017	1,785.91	0.299
4	2017	1,706.91	0.912	4	2020	1,785.83	0.297
5	2019	1,706.79	0.896	5	2018	1,785.75	0.294

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

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CHIEF ENGINEER

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

FOR WEEK ENDING: [September 18, 2021](#)

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 11	1,707.00	0.926	52	1,786.00	0.302	10
Sunday 12	1,706.96	0.920	52	1,786.00	0.302	10
Monday 13	1,706.96	0.920	52	1,786.00	0.302	10
Tuesday 14	1,706.93	0.916	52	1,786.00	0.302	10
Wednesday 15	1,706.90	0.912	52	1,785.99	0.302	10
Thursday 16	1,706.91	0.913	21	1,786.02	0.303	10
Friday 17	1,706.92	0.915	8	1,786.01	0.302	8
Saturday 18	1,706.92	0.915	8	1,786.02	0.303	5
CHANGE IN STORAGE		-0.011			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	2020	1,707.01	0.927	1	2021	1,786.02	0.303
2	2017	1,706.97	0.922	2	2019	1,786.01	0.302
3	2018	1,706.96	0.920	3	2017	1,786.01	0.302
4	2021	1,706.92	0.915	4	2020	1,785.80	0.296
5	2019	1,706.83	0.901	5	2018	1,785.74	0.294

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

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CHIEF ENGINEER

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

FOR WEEK ENDING: [September 25, 2021](#)

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 18	1,706.92	0.915	8	1,786.02	0.303	5
Sunday 19	1,706.94	0.917	8	1,786.02	0.303	5
Monday 20	1,706.94	0.917	8	1,786.02	0.303	5
Tuesday 21	1,706.94	0.917	8	1,786.03	0.303	5
Wednesday 22	1,706.94	0.917	8	1,786.01	0.302	5
Thursday 23	1,706.95	0.919	76	1,786.03	0.303	29
Friday 24	1,706.99	0.924	144	1,786.07	0.304	50
Saturday 25	1,707.00	0.926	42	1,786.05	0.304	20
CHANGE IN STORAGE		0.011			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	1,707.00	0.926	1	2021	1,786.05	0.304
2	2020	1,706.96	0.920	2	2017	1,786.01	0.302
3	2018	1,706.89	0.909	3	2019	1,786.00	0.302
4	2019	1,706.88	0.908	4	2020	1,785.74	0.294
5	2017	1,706.88	0.908	5	2018	1,785.65	0.291

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

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CHIEF ENGINEER

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

Monthly Report for: August 2021

Day	Sacandaga Reservoir Elevation Average Daily	Sacandaga Reservoir Elevation Midnight	Sacandaga River Near Hope cfs	Reservoir Inflow Hope x 2.1791 cfs	Sacandaga River at Stewarts Bridge cfs	Hudson River at Hadley cfs	Regulated Hudson River below confluence cfs
1	768.11	768.10	1460	3181	3720	3900	7620
2	768.10	768.13	1740	3792	3990	4260	8250
3	768.01	768.06	1240	2702	4120	4170	8290
4	767.81	767.92	943	2055	4430	3510	7940
5	767.58	767.70	754	1643	4440	2830	7270
6	767.33	767.47	630	1373	4440	2540	6980
7	767.06	767.19	563	1227	4440	2150	6590
8	766.76	766.89	512	1116	4430	1950	6380
9	766.49	766.62	515	1122	4430	1790	6220
10	766.20	766.35	460	1002	4430	1570	6000
11	765.93	766.07	461	1005	4430	1570	6000
12	765.64	765.74	497	1083	4430	1480	5910
13	765.34	765.47	444	968	4430	1510	5940
14	765.05	765.17	400	872	4420	1300	5720
15	764.71	764.86	329	717	4240	1390	5630
16	764.39	764.55	240	523	4250	1360	5610
17	764.12	764.25	435	948	4050	1170	5220
18	763.92	764.01	1470	3203	3980	2500	6480
19	764.18	763.85	7540	16430	427	12400	12827
20	765.18	764.75	6700	14600	410	16000	16410
21	765.69	765.48	3620	7888	409	10900	11309
22	765.69	765.84	2630	5731	409	7920	8329
23	766.15	766.09	2060	4489	1490	6110	7600
24	766.23	766.24	1640	3574	2720	5380	8100
25	766.12	766.17	1300	2833	3490	4630	8120
26	765.93	766.02	1050	2288	4100	4030	8130
27	765.66	765.80	876	1909	4380	3480	7860
28	765.41	765.48	748	1630	4450	3120	7570
29	765.15	765.27	721	1571	4440	2880	7320
30	764.99	765.04	673	1467	3120	2710	5830
31	764.80	764.84	571	1244	3080	2590	5670

AVERAGE 1394 3040 3550 3970 7520

CHANGE IN STORAGE DURING THE MONTH -3.86 B.C.F.

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CHIEF ENGINEER

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

Monthly Report for: August, 2021

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	1648.14	1648.27	401	943	275	1830
2	1647.84	1648.01	231	939	405	2000
3	1647.53	1647.67	252	731	557	2160
4	1647.39	1647.44	107	315	472	1450
5	1647.30	1647.35	121	308	361	1320
6	1647.19	1647.25	78	307	292	1020
7	1647.10	1647.14	69	194	245	954
8	1647.08	1647.08	139	118	212	719
9	1647.08	1647.10	55	117	191	626
10	1647.07	1647.06	263	117	173	742
11	1647.16	1647.13	223	119	169	618
12	1647.18	1647.18	97	118	179	814
13	1647.17	1647.17	118	118	176	617
14	1647.17	1647.17	66	212	164	744
15	1647.05	1647.11	87	295	149	819
16	1646.92	1647.00	-39	294	131	629
17	1646.88	1646.85	477	394	140	806
18	1647.37	1646.88	2656	635	313	4920
19	1648.68	1647.86	4421	795	725	11600
20	1650.02	1649.54	2638	796	1250	11200
21	1650.43	1650.35	1149	802	1100	6860
22	1650.44	1650.49	547	802	778	4270
23	1650.30	1650.38	427	797	563	2980
24	1650.10	1650.22	259	791	431	3450
25	1649.86	1649.99	207	786	342	2030
26	1649.60	1649.74	87	782	279	1780
27	1649.31	1649.43	183	777	233	1530
28	1649.02	1649.16	114	774	196	1470
29	1648.73	1648.87	203	771	178	1370
30	1648.45	1648.61	121	767	197	1330
31	1648.14	1648.29	137	762	206	1410

AVERAGE 513 531 357 2389

CHANGE IN STORAGE DURING THE MONTH -0.050 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: August 2021

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	1676.00	1675.93	1012	400	970	755	4940
2	1676.22	1676.14	812	400	1040	1100	6020
3	1676.30	1676.28	518	400	858	1230	6110
4	1676.32	1676.32	371	400	601	948	5400
5	1676.29	1676.31	282	400	469	544	3960
6	1676.25	1676.27	282	400	387	453	2930
7	1676.19	1676.23	223	400	346	481	2500
8	1676.15	1676.17	371	400	318	545	2270
9	1676.15	1676.16	312	400	292	531	2560
10	1676.11	1676.13	400	400	273	508	2210
11	1676.13	1676.13	400	400	433	633	2880
12	1676.10	1676.13	282	400	690	729	3770
13	1676.07	1676.09	341	400	630	724	3350
14	1676.08	1676.07	459	400	519	654	3020
15	1676.06	1676.09	223	400	453	582	2750
16	1676.00	1676.03	197	400	368	505	2480
17	1676.09	1675.96	1191	400	625	778	2770
18	1676.37	1676.23	1283	400	2040	1050	5780
19	1676.77	1676.53	1783	400	6320	1520	7460
20	1677.16	1677.00	1149	210	7100	1410	10700
21	1677.42	1677.31	686	50	3640	993	18800
22	1677.60	1677.52	504	50	1940	446	20300
23	1677.73	1677.67	413	50	1240	361	15700
24	1677.85	1677.79	383	50	946	292	11500
25	1677.92	1677.90	284	254	818	286	8720
26	1677.90	1677.91	309	400	722	313	6590
27	1677.86	1677.88	279	400	621	347	4880
28	1677.80	1677.84	158	400	524	353	3420
29	1677.78	1677.76	461	400	680	542	3170
30	1677.78	1677.78	461	400	787	561	3810
31	1677.77	1677.80	279	400	624	534	3650

AVERAGE			520	344	1200	670	5950
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CHANGE IN STORAGE DURING THE MONTH

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 CHIEF ENGINEER



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

Monthly Report for: August, 2021

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow cfs	Gate Opening (ft)		Reservoir Release (cfs)
				Gate A	Gate B	
1	1785.94	1785.94	30	0.25	0.25	30
2	1785.96	1785.97	30	0.25	0.25	30
3	1785.94	1785.96	30	0.25	0.25	30
4	1785.93	1785.93	17	0.17	0.00	17
5	1785.94	1785.93	10	0.17	0.00	10
6	1785.94	1785.94	10	0.17	0.00	10
7	1785.94	1785.94	10	0.17	0.00	10
8	1785.96	1785.95	10	0.17	0.00	10
9	1785.98	1785.98	10	0.17	0.00	10
10	1786.00	1785.99	10	0.17	0.00	10
11	1786.04	1786.02	10	0.17	0.00	10
12	1786.07	1786.06	10	0.17	0.00	10
13	1786.07	1786.06	21	0.25	0.25	21
14	1786.05	1786.06	30	0.25	0.25	30
15	1786.01	1786.03	30	0.25	0.25	30
16	1785.97	1785.99	30	0.25	0.25	30
17	1786.02	1785.95	29	0.25	0.25	29
18	1786.50	1786.06	171	3.00	3.00	171
19	1786.84	1786.73	327	3.00	3.00	327
20	1786.79	1786.92	300	3.00	3.00	300
21	1786.42	1786.61	268	3.00	3.00	268
22	1786.11	1786.22	255	3.00	3.00	255
23	1785.98	1786.04	157	1.00	1.00	157
24	1785.90	1785.93	76	0.33	0.33	76
25	1785.88	1785.89	37	0.33	0.33	37
26	1785.85	1785.87	37	0.33	0.33	37
27	1785.83	1785.84	23	0.00	0.33	23
28	1785.82	1785.84	19	0.00	0.33	19
29	1785.85	1785.82	19	0.00	0.33	19
30	1785.85	1785.85	19	0.00	0.33	19
31	1785.86	1785.86	13	0.00	0.17	13

AVERAGE 66 66

CHANGE IN STORAGE DURING THE MONTH -0.002 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: August, 2021

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow cfs	Gate Opening (ft)		Reservoir Release (cfs)
				Gate A	Gate B	
1	1707.00	1706.98	165	0.67	0.67	84
2	1707.03	1707.03	116	0.67	0.67	84
3	1707.03	1707.05	68	0.67	0.67	84
4	1707.03	1707.04	52	0.67	0.67	84
5	1707.00	1707.02	35	0.67	0.67	84
6	1706.97	1706.99	19	0.33	0.33	51
7	1706.96	1706.97	48	0.33	0.33	32
8	1706.99	1706.98	145	0.33	0.33	32
9	1707.05	1707.05	48	0.33	0.33	32
10	1707.05	1707.06	32	0.33	0.33	32
11	1707.06	1707.06	48	0.33	0.33	32
12	1707.05	1707.07	33	0.67	0.67	65
13	1707.03	1707.05	53	0.67	0.67	85
14	1707.01	1707.03	53	0.67	0.67	85
15	1707.00	1707.01	53	0.67	0.67	85
16	1706.97	1706.99	36	0.67	0.67	85
17	1707.02	1706.96	247	0.67	0.67	85
18	1707.21	1707.06	894	4.00	4.00	311
19	1707.47	1707.42	943	4.00	4.00	554
20	1707.58	1707.66	616	4.00	4.00	600
21	1707.55	1707.67	551	4.00	4.00	600
22	1707.49	1707.64	329	4.00	4.00	540
23	1707.31	1707.51	165	4.00	4.00	521
24	1707.08	1707.29	169	4.00	4.00	493
25	1706.97	1707.09	93	0.67	0.67	239
26	1706.98	1707.00	52	0.67	0.67	84
27	1706.98	1706.98	68	0.67	0.67	84
28	1706.94	1706.97	-29	0.67	0.67	84
29	1706.92	1706.90	100	0.67	0.67	84
30	1706.89	1706.91	67	0.67	0.67	83
31	1706.88	1706.90	57	0.17	0.17	41

AVERAGE 172 175

CHANGE IN STORAGE DURING THE MONTH -0.010 B.C.F

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CHIEF ENGINEER