

**REPORT OF CHIEF ENGINEER**  
**HUDSON RIVER - BLACK RIVER REGULATING DISTRICT**  
**BOARD MEETING**  
**DECEMBER 11, 2018 – LAKE GEORGE, NEW YORK**

**HUDSON RIVER AREA - NOVEMBER SUMMARY**

**Reservoir Operation**

Great Sacandaga Lake

The November average daily release from the Sacandaga Reservoir (Great Sacandaga Lake) was approximately 2,820 cubic feet per second (cfs). The Upper Hudson / Sacandaga River Offer of Settlement target elevation for November 30 is 755.27 feet (ft). The release of water from Great Sacandaga Lake was consistent with the Upper Hudson/Sacandaga River Offer of Settlement.

Table 1.0 - *Great Sacandaga Lake Elevation and Release*

Date	Daily Average Elevation (ft,NGVD) <sup>(4)</sup>	Deviation (ft) (1)		Release (cfs)	
		From Average	From Offer of Settlement	Conklingville Dam	E.J. West (2) Hydro Plant
Oct. 31	759.80	+4.04	+1.45	0	2,270
Nov. 30	762.5 (e)	+7.2 (e)	+7.2 (e)	0	3,800 (e)

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

Indian Lake Reservoir

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

Table 2.0 - *Indian Lake Reservoir Elevation and Release*

Date	Daily Average Elevation (1) (ft, NGVD)	Deviation (ft)		Release (cfs)
		From Average	From Target	
Oct. 31	1,645.47	+1.02	+2.12	279
Nov. 30	1,644.2 (e)	-0.1 (e)	+2.1 (e)	482 (e)

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

**HUDSON RIVER AREA - NOVEMBER SUMMARY- continued**

**River Flow**

Hudson River flow, downstream of the confluence with the Sacandaga River, was approximately 6,870 cfs on November 25 and approximately 1,730 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	2,100 (e)	1,130
<b>Sacandaga</b> at Stewarts Bridge	2,820 (e)	2,330
<b>Indian</b> at Indian Lake Dam	466 (e)	243
<b>Hudson</b> at Hadley (1)	4,030 (e)	2,770

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

**Precipitation**

Monthly total precipitation measured 189%, 188%, and 194% historic average at Indian Lake, Mayfield, and Conklingville, respectively, as of November 26

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

<b>Station</b>	<b>Monthly Total (inch)</b>	<b>Historic Average (inch)</b>
<b>Indian Lake</b>	6.34	3.35
<b>Mayfield</b>	6.92	3.69
<b>Conklingville</b>	7.22	3.73

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

### **Operation Overview**

Precipitation during the month of November was above normal across the Great Sacandaga Lake watershed and the Indian Lake watershed. The monthly inflow to Great Sacandaga Lake and Indian Lake reservoir was approximately 174% and 121% of historic average, respectively. Monthly release of water from Great Sacandaga Lake and Indian Lake measured 121% and 136% of historic average, respectively.

### **Great Sacandaga Lake Operation**

Great Sacandaga Lake operation summary report for the period November 1, 2018 through November 25, 2018 is attached. This report includes projected and forecast values for dates after November 25, 2018.

### **Hudson River Area Staff Activities**

Staff completed routine maintenance and operations activities during the month.

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

## BLACK RIVER AREA – NOVEMBER SUMMARY

### Reservoir Operations

#### Stillwater Reservoir

The November average daily release from Stillwater Reservoir was approximately 350 cfs. The maximum discharge for the month was 500 cfs.

Table 1.0 - *Stillwater Reservoir Elevation and Release*

Date	Daily Average Elevation (ft, NGVD)	Deviation from Average Elevation (ft) (1)	Release (cfs)
Oct. 31	1,667.13	-1.86	200
Nov. 30	1,670.1 (e)	+0.0 (e)	500 (e)

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

#### Sixth Lake Reservoir

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

Table 2.0 - *Sixth Lake Reservoir Elevation and Release*

Date	Elevation (1) (ft, NGVD)	Deviation from Average Elevation (2) (ft)	Release (cfs)
Oct. 31	1,784.91	+0.89	28
Nov. 30	1,782.0 (e)	-1.2 (e)	98 (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 November average daily release from Old Forge Reservoir was approximately 250 cfs.

Table 3.0 - *Old Forge Reservoir Elevation and Release*

Date	Elevation (1) (ft, NGVD)	Deviation from Average Elevation (2) (ft)	Release (cfs)
Oct. 31	1,706.21	+0.65	82
Nov. 30	1,704.8 (e)	+0.0 (e)	236 (e)

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

## BLACK RIVER AREA - NOVEMBER SUMMARY - continued

### River Flow

The average daily Black River flow, as measured at the Watertown gauge, was approximately 3,750 cfs on November 25.

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	1,480 (e)	853
<b>Beaver</b> at Croghan	610 (e)	590
<b>Black</b> at Watertown	6,510 (e)	4,510

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 127%, 134%, 108% of historic average at Stillwater, Old Forge, and Sixth Lake, respectively, as of November 25.

Table 5.0 - *Black River Basin Precipitation - as of November 25*

<b>Station</b>	<b>Monthly Total (inch)</b>	<b>Historic Average (inch)</b>
<b>Stillwater</b>	5.28	4.15
<b>Old Forge</b>	5.92	4.43
<b>Sixth Lake</b>	4.23	3.91

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

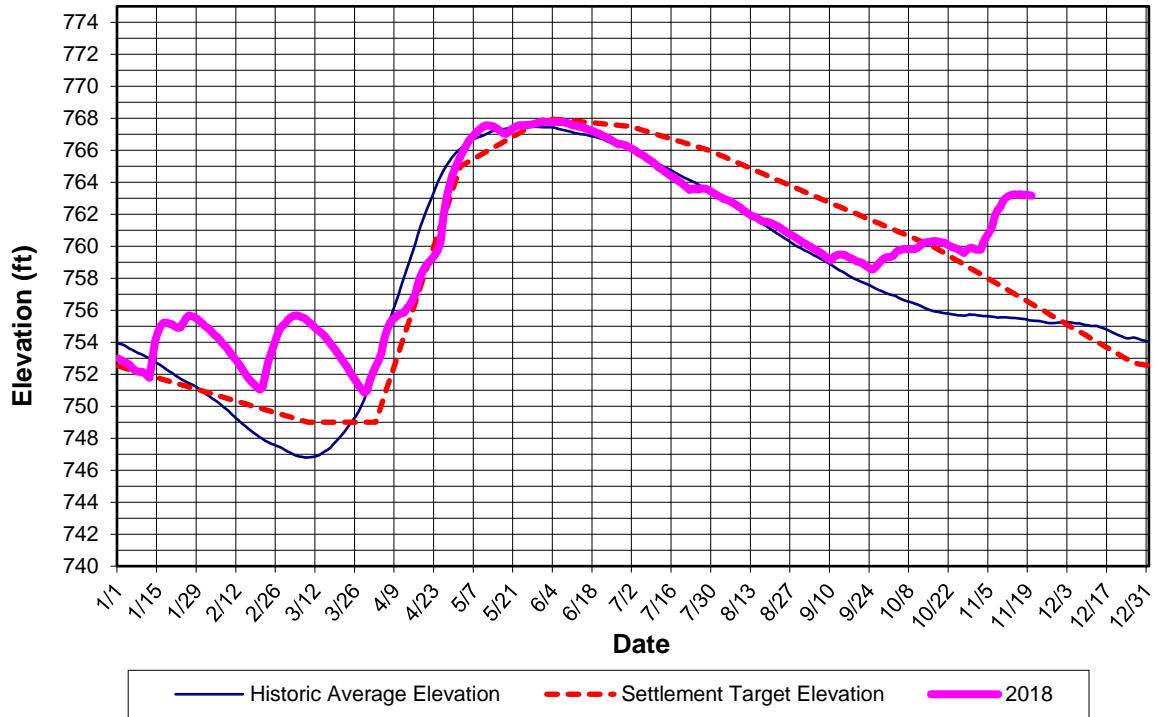
### **Operation Overview**

Precipitation in the month of November was above average at Stillwater, Old Forge and at Sixth Lake. The monthly inflow to Stillwater Reservoir was approximately 111% of historic average. The inflow to Sixth Lake and Old Forge Reservoir totaled 0.18 and 0.46 billion cubic feet, respectively, in November. Release of water from Stillwater Reservoir averaged 91% of historic discharge.

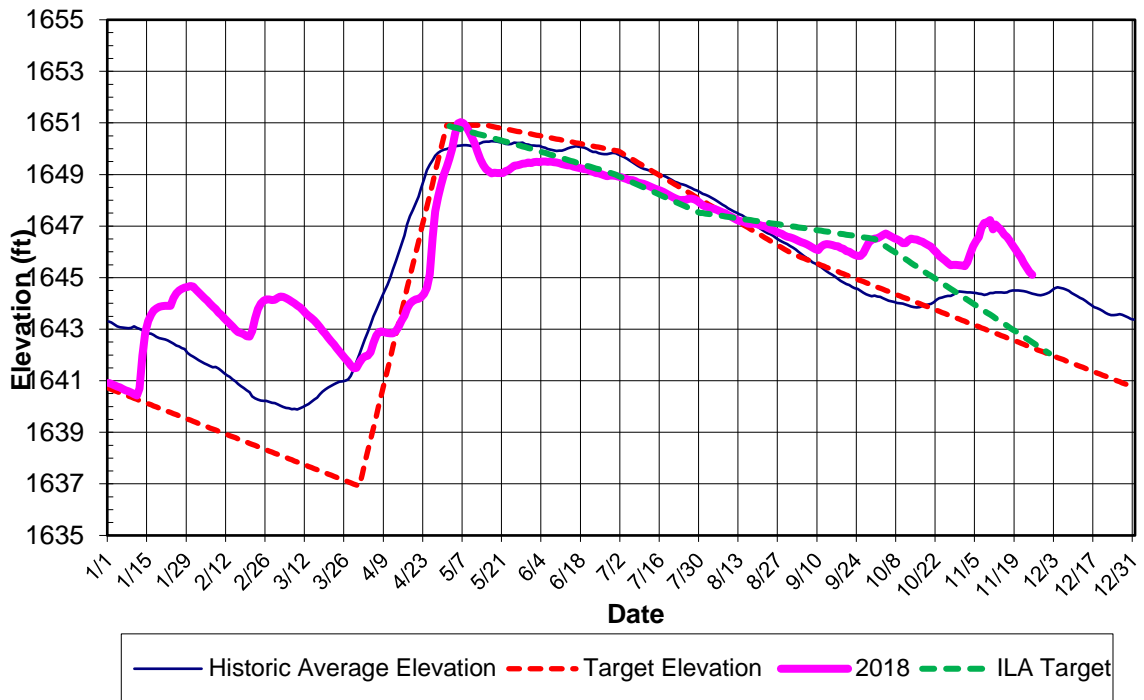
### **Black River Area Staff Activities**

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

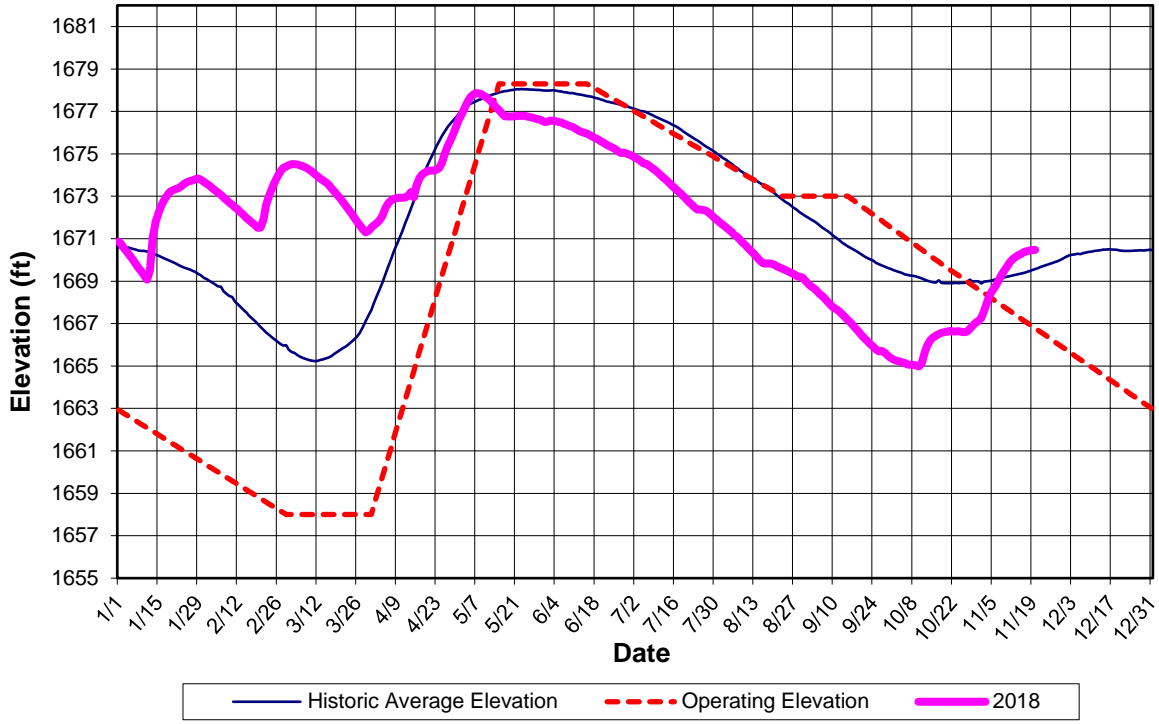
### Great Sacandaga Lake 2018 Reservoir Elevation



### Indian Lake 2018 Reservoir Elevation

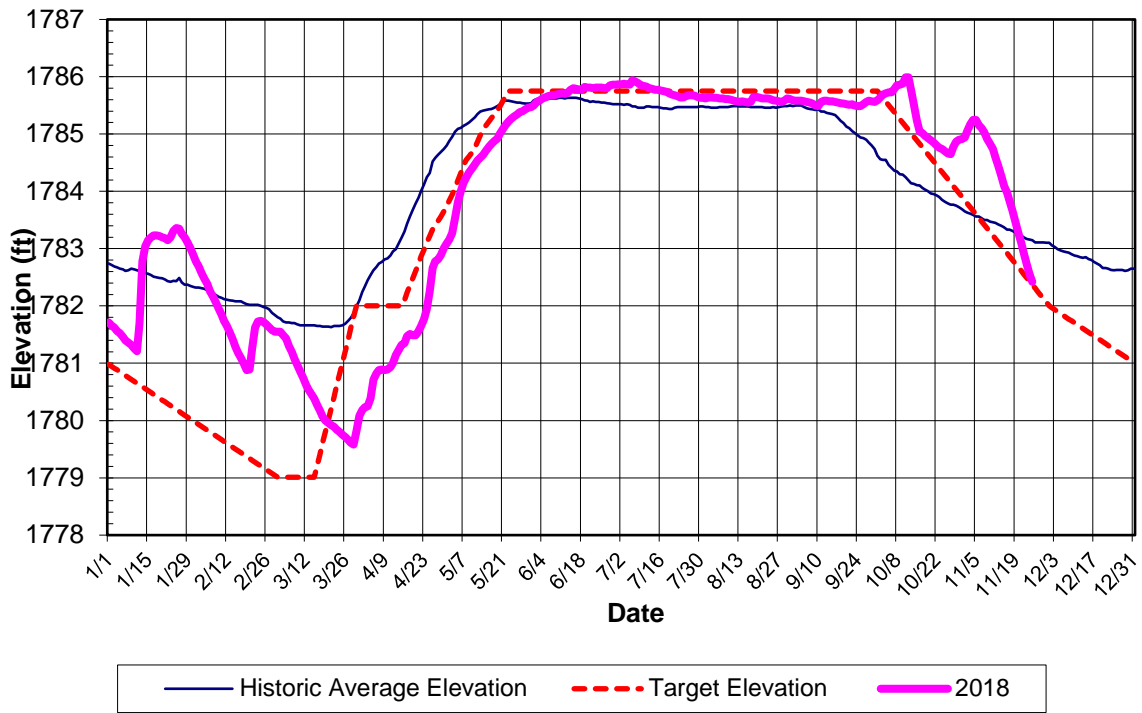


### Stillwater Reservoir 2018 Reservoir Elevation

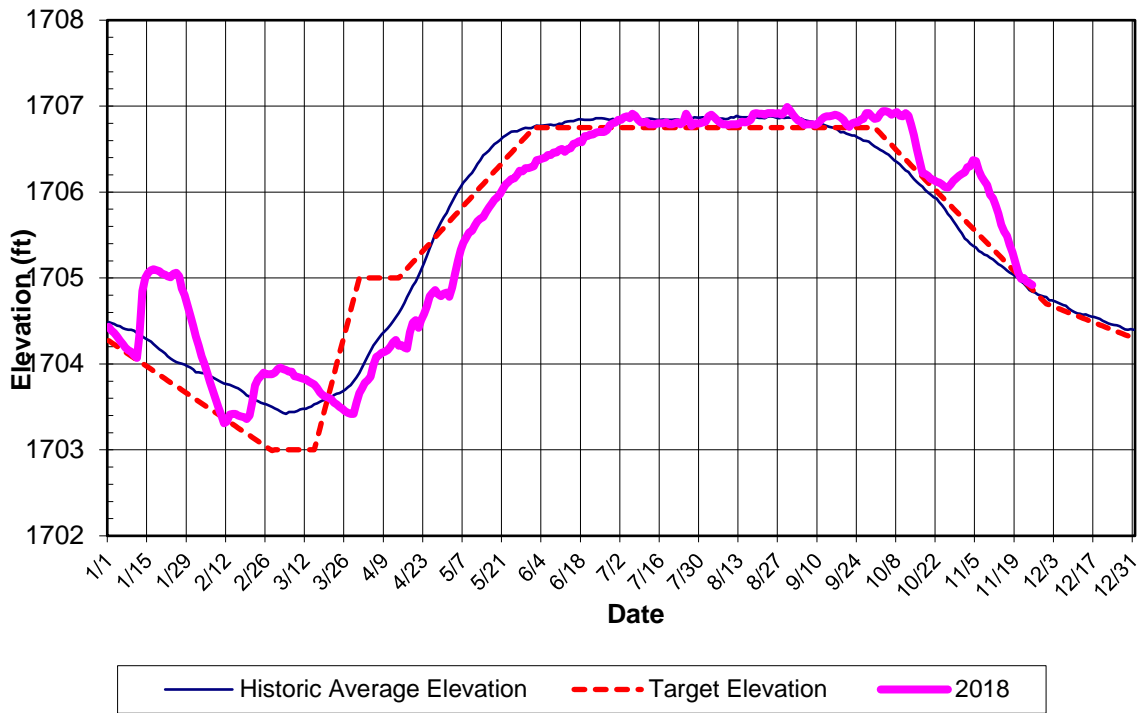




### Sixth Lake 2018 Reservoir Elevation



### Old Forge 2018 Reservoir Elevation



**SACANDAGA RESERVOIR ELEVATION CALCULATOR**

**BROOKFIELD HYDRO CONTROL CENTER: 877-816-7466**

**Justin St. John** 518-743-2004 (w)  
 315-396-8194 (cell)  
**Scott Curtis** 315-413-2848

Settlement Parameters	
Date	11/26/2018
Target Elevation	762.15
Actual "Level"	3.40
"Level 2.5 threshold"	0.00
"Level 1.2 threshold"	742.55
<b>Hudson River Target</b>	Elevation Level
Maximum Flow (cfs)	8000 8300
Minimum Flow (cfs)	n/a 2800
Min. Rec/Rafting Hours (hrs)	#VALUE!

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

Daily Conditions	
Date	11/26/2018
Day of Year	4348
Starting Elevation (ft)	762.15
Average Elevation	762.15
Flow Below Hadley (cfs)	7200
Todays Release	4000
Tomorrows Release	4000

**Dan McCarty** 744-2067 Eric Johnson  
 863-8791

**762.15** Piezometers **518-696-5807**  
 ACTUAL High Value  
 SCHEDULED Low Value  
 ESTIMATED Instant. (min + rafting)  
 TO BE CHANGED

Rafting Release at Abanakee  
 North Crk T, Th, Sa., Su.  
 Hadley M, W, F, Su.  
 \* 4000 cfs/hr + base flow 350 cfs

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)
11/1/2018	759.78	1800	2140	0	0	2140	4000	3.10	2010	4150	2200	8000	7700	759.75	11/2/2018	759.77	758.25	755.55
11/2/2018	759.75	4000	2400	0	0	2400	4000	3.11	2650	5050	2220	8000	7720	759.88	11/3/2018	759.82	758.15	755.50
11/3/2018	759.88	9000	2850	0	0	2850	4000	3.14	5100	7950	2280	8000	7780	760.39	11/4/2018	760.14	758.05	755.47
11/4/2018	760.39	5500	1480	0	0	1480	4000	3.14	6370	7850	2280	8000	7780	760.72	11/5/2018	760.56	757.94	755.46
11/5/2018	760.72	3500	2070	0	0	2070	4000	3.15	5680	7750	2300	8000	7800	760.83	11/6/2018	760.78	757.84	755.45
11/6/2018	760.83	10700	1810	0	0	1810	4000	3.22	5340	7150	2440	8000	7940	761.56	11/7/2018	761.20	757.74	755.44
11/7/2018	761.56	9400	1730	0	0	1730	4000	3.27	6200	7930	2540	8000	8040	762.18	11/8/2018	761.87	757.64	755.43
11/8/2018	762.18	4600	2030	0	0	2030	4000	3.30	6550	8580	2600	8000	8100	762.38	11/9/2018	762.28	757.53	755.41
11/9/2018	762.38	5100	2230	0	0	2230	4000	3.33	5720	7950	2660	8000	8160	762.61	11/10/2018	762.50	757.43	755.39
11/10/2018	762.61	7300	2460	0	0	2460	4000	3.35	5610	8070	2700	8000	8200	763.00	11/11/2018	762.81	757.33	755.40
11/11/2018	763.00	4300	2520	0	0	2520	4000	3.37	5220	7740	2740	8000	8240	763.14	11/12/2018	763.07	757.22	755.41
11/12/2018	763.14	3300	2720	0	0	2720	4000	3.38	4620	7340	2760	8000	8260	763.18	11/13/2018	763.16	757.12	755.42
11/13/2018	763.18	4300	3100	0	0	3100	4000	3.39	4130	7230	2780	8000	8280	763.27	11/14/2018	763.23	757.02	755.42
11/14/2018	763.27	1900	2720	0	0	2720	4000	3.39	3980	6700	2780	8000	8280	763.20	11/15/2018	763.24	756.92	755.42
11/15/2018	763.20	2000	2170	0	0	2170	4000	3.40	3600	5770	2800	8000	8300	763.18	11/16/2018	763.19	756.81	755.42
11/16/2018	763.18	4600	2460	0	0	2460	4000	3.40	3290	5750	2800	8000	8300	763.35	11/17/2018	763.27	756.71	755.41
11/17/2018	763.35	1200	2310	0	0	2310	4000	3.40	3310	5620	2800	8000	8300	763.26	11/18/2018	763.31	756.61	755.40
11/18/2018	763.26	1700	2270	0	0	2270	4000	3.40	3190	5460	2800	8000	8300	763.21	11/19/2018	763.24	756.50	755.39
11/19/2018	763.21	1800	2230	0	0	2230	4000	3.40	2990	5220	2800	8000	8300	763.17	11/20/2018	763.19	756.40	755.36
11/20/2018	763.17	1700	2230	0	0	2230	4000	3.39	2750	4980	2780	8000	8280	763.12	11/21/2018	763.15	756.30	755.32
11/21/2018	763.12	1900	1800	1080	0	2880	4000	3.40	2710	5590	2800	8000	8300	763.04	11/22/2018	763.08	756.20	755.30
11/22/2018	763.04	1100	2064	2236	0	4300	4000	3.41	2520	6820	2820	8000	8320	762.78	11/23/2018	762.91	756.09	755.29
11/23/2018	762.78	1000	2077	2233	0	4310	4000	3.39	2240	6550	2780	8000	8280	762.51	11/24/2018	762.65	755.99	755.28
11/24/2018	762.51	1200	2040	2230	0	4270	4000	3.38	2240	6510	2760	8000	8260	762.26	11/25/2018	762.39	755.89	755.27
11/25/2018	762.26	2900	1955	2225	0	4180	4000	3.38	2690	6870	2760	8000	8260	762.15	11/26/2018	762.21	755.78	755.24
11/26/2018	762.15	3900	1800	2200	0	4000	4000	3.38	3200	7200	2760	8000	8260	762.14	11/27/2018	762.15	755.68	755.20
11/27/2018	762.14	4500	1800	2200	0	4000	4000	3.38	3600	7600	2760	8000	8260	762.18	11/28/2018	762.16	755.58	755.16
11/28/2018	762.18	5000	1300	2200	0	3500	4000	3.38	4500	8000	2760	8000	8260	762.30	11/29/2018	762.24	755.48	755.16
11/29/2018	762.30	5200	1200	2200	0	3400	4000	3.39	4600	8000	2780	8000	8280	762.44	11/30/2018	762.37	755.37	755.16
11/30/2018	762.44	5000	1600	2200	0	3800	4000	3.40	4200	8000	2800	8000	8300	762.53	12/1/2018	762.49	755.27	755.19
12/1/2018	762.53	4600	1800	2200	0	4000	4000	3.41	3800	7800	2820	8000	8320	762.57	12/2/2018	762.55	755.17	755.21
12/2/2018	762.57	4200	1800	2200	0	4000	4000	3.41	3500	7500	2820	8000	8320	762.58	12/3/2018	762.58	754.96	755.14
12/3/2018	758.75	500	4000	0	0	4000	4000	3.00	1500	5500	2000	8000	7500	753.51	12/20/2018	753.21	754.54	

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

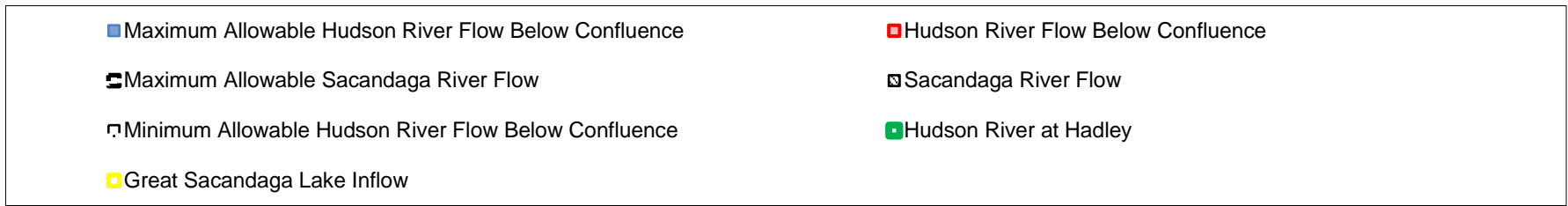
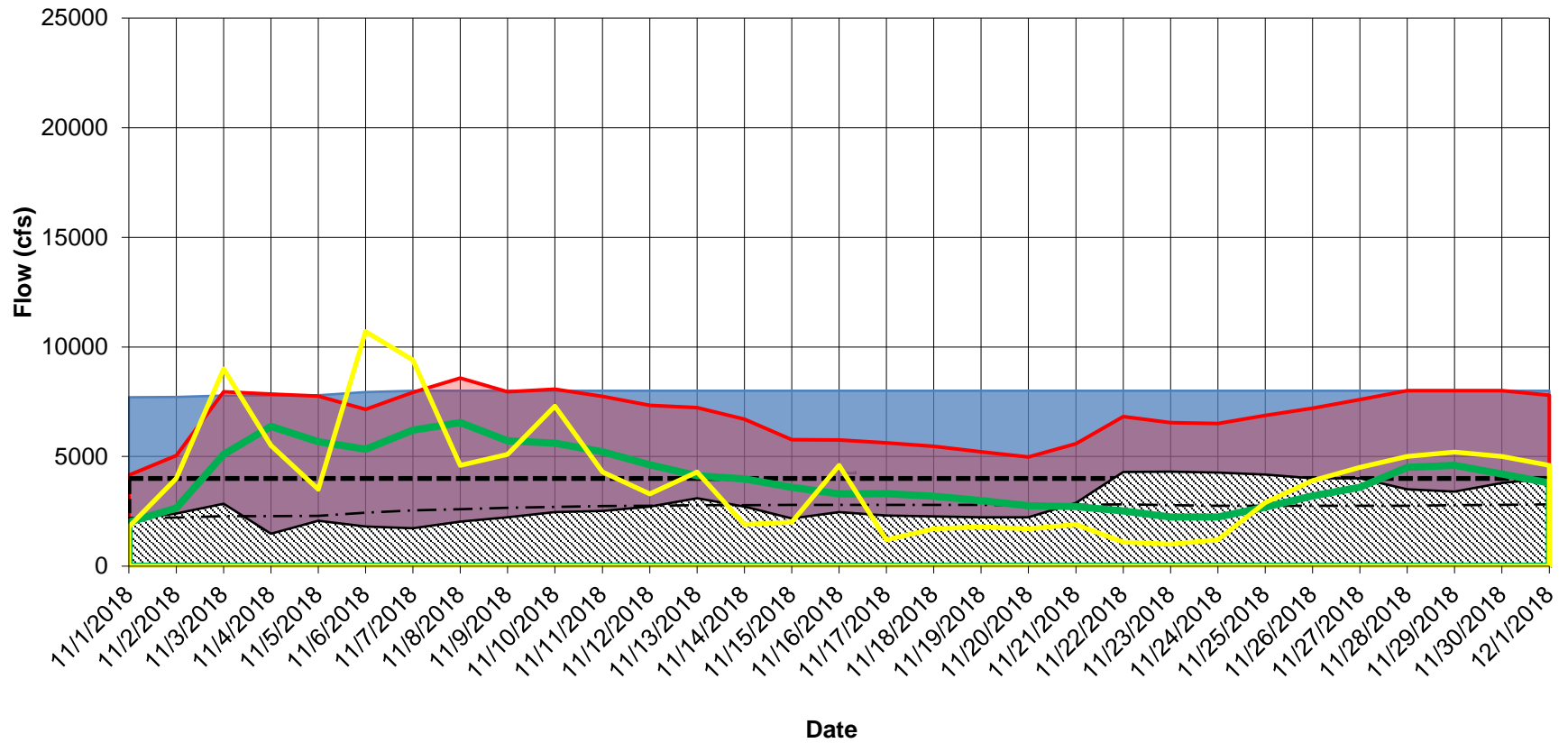
Date: \_\_\_\_\_

**GREAT SACANDAGA LAKE  
RESERVOIR OPERATION SUMMARY**

Print Date: 11/26/2018  
Period of Record: 11/1/2018 to 11/29/2018

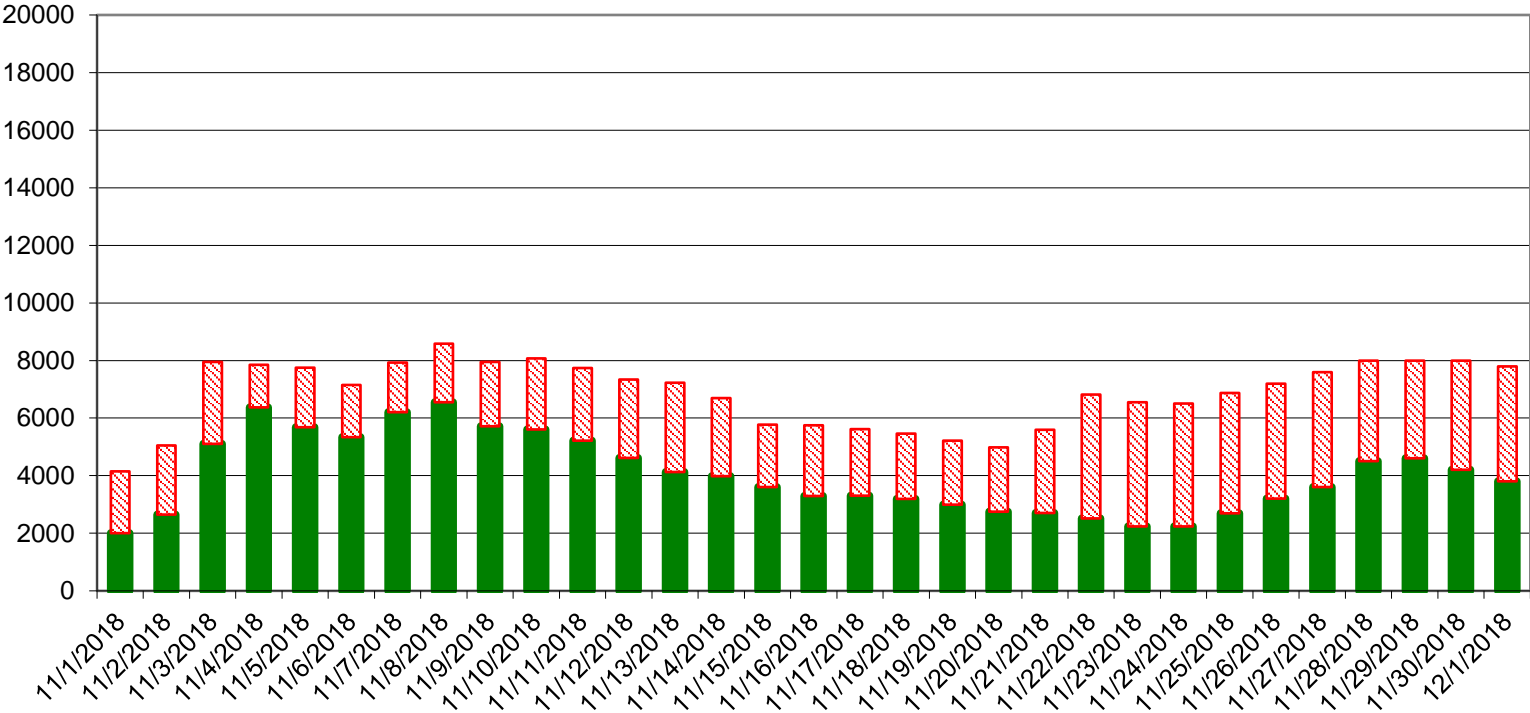
Starting Date 12:00 AM	Daily Avg. Elevation	Net Average Inflow	<b>Sacandaga River Flow</b> Average Release	Maximum (Table F - Elev.)	Settlement Level	Hudson at Hadley	Hudson River Below Confluence	<b>Hudson River Target Flow</b> Minimum (Table B - Level)	Maximum (Table D & E)	Maximum Allowable Sacandaga
11/1/2018	759.77	1800	2140	4000	3.10	2010	4150	2200	7700	4000
11/2/2018	759.82	4000	2400	4000	3.11	2650	5050	2220	7720	4000
11/3/2018	760.14	9000	2850	4000	3.14	5100	7950	2280	7780	4000
11/4/2018	760.56	5500	1480	4000	3.14	6370	7850	2280	7780	4000
11/5/2018	760.78	3500	2070	4000	3.15	5680	7750	2300	7800	4000
11/6/2018	761.20	10700	1810	4000	3.22	5340	7150	2440	7940	4000
11/7/2018	761.87	9400	1730	4000	3.27	6200	7930	2540	8000	4000
11/8/2018	762.28	4600	2030	4000	3.30	6550	8580	2600	8000	4000
11/9/2018	762.50	5100	2230	4000	3.33	5720	7950	2660	8000	4000
11/10/2018	762.81	7300	2460	4000	3.35	5610	8070	2700	8000	4000
11/11/2018	763.07	4300	2520	4000	3.37	5220	7740	2740	8000	4000
11/12/2018	763.16	3300	2720	4000	3.38	4620	7340	2760	8000	4000
11/13/2018	763.23	4300	3100	4000	3.39	4130	7230	2780	8000	4000
11/14/2018	763.24	1900	2720	4000	3.39	3980	6700	2780	8000	4000
11/15/2018	763.19	2000	2170	4000	3.40	3600	5770	2800	8000	4000
11/16/2018	763.27	4600	2460	4000	3.40	3290	5750	2800	8000	4000
11/17/2018	763.31	1200	2310	4000	3.40	3310	5620	2800	8000	4000
11/18/2018	763.24	1700	2270	4000	3.40	3190	5460	2800	8000	4000
11/19/2018	763.19	1800	2230	4000	3.40	2990	5220	2800	8000	4000
11/20/2018	763.15	1700	2230	4000	3.39	2750	4980	2780	8000	4000
11/21/2018	763.08	1900	2880	4000	3.40	2710	5590	2800	8000	4000
11/22/2018	762.91	1100	4300	4000	3.41	2520	6820	2820	8000	4000
11/23/2018	762.65	1000	4310	4000	3.39	2240	6550	2780	8000	4000
11/24/2018	762.39	1200	4270	4000	3.38	2240	6510	2760	8000	4000
11/25/2018	762.21	2900	4180	4000	3.38	2690	6870	2760	8000	4000
11/26/2018	762.15	3900	4000	4000	3.38	3200	7200	2760	8000	4000
11/27/2018	762.16	4500	4000	4000	3.38	3600	7600	2760	8000	4000
11/28/2018	762.24	5000	3500	4000	3.38	4500	8000	2760	8000	4000
11/29/2018	762.37	5200	3400	4000	3.39	4600	8000	2780	8000	4000
11/30/2018	762.49	5000	3800	4000	3.40	4200	8000	2800	8000	4000
12/1/2018	762.55	4600	4000	4000	3.41	3800	7800	2820	8000	4000

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



### Great Sacandaga Lake GSL Release and Natural Hudson River Flow

Total Flow Below Confluence (cfs)



Date



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

Monthly Report for: October 2018

Day	Sacandaga Reservoir Elevation Average Daily	Sacandaga Reservoir Elevation Midnight	Sacandaga River Near Hope cfs	Reservoir Inflow Hope x 1.8902 cfs	Sacandaga River at Stewarts Bridge cfs	Hudson River at Hadley cfs	Regulated Hudson River below confluence cfs
1	759.31	759.39	1110	2098	1330	1330	2660
2	759.40	759.29	1380	2608	1330	1310	2640
3	759.62	759.53	1900	3591	1330	1880	3210
4	759.76	759.70	1550	2930	1330	2170	3500
5	759.78	759.83	1280	2419	1310	2550	3860
6	759.84	759.87	1020	1928	1360	2210	3570
7	759.82	759.84	862	1629	1330	2100	3430
8	759.84	759.80	818	1546	1370	1930	3300
9	759.81	759.78	733	1386	1290	1770	3060
10	759.84	759.85	669	1265	1310	1610	2920
11	759.93	759.83	955	1805	1310	1700	3010
12	760.09	760.00	1570	2968	1390	2310	3700
13	760.21	760.19	1230	2325	1440	3390	4830
14	760.25	760.25	1030	1947	1440	3200	4640
15	760.28	760.23	902	1705	1500	2640	4140
16	760.31	760.39	876	1656	1540	2220	3760
17	760.32	760.32	926	1750	1770	2000	3770
18	760.29	760.31	817	1544	1710	1850	3560
19	760.24	760.24	734	1387	1770	1770	3540
20	760.23	760.22	684	1293	1710	1690	3400
21	760.11	760.15	627	1185	1740	1590	3330
22	760.03	760.02	577	1091	1760	1490	3250
23	759.94	760.04	537	1015	1780	1370	3150
24	759.88	759.96	523	989	1760	1400	3160
25	759.82	759.88	489	924	1800	1340	3140
26	759.70	759.72	451	852	1770	1340	3110
27	759.57	759.68	500	945	1750	1370	3120
28	759.73	759.65	1180	2230	1770	1640	3410
29	759.87	759.85	1340	2533	1780	1950	3730
30	759.89	759.89	1150	2174	2380	2090	4470
31	759.80	759.84	976	1845	2270	2060	4330

AVERAGE 948 1790 1590 1910 3510

CHANGE IN STORAGE DURING THE MONTH 0.34 B.C.F

\_\_\_\_\_  
 CHIEF ENGINEER

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

Monthly Report for: October, 2018

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	1646.53	1646.49	265	127	218	631
2	1646.59	1646.56	245	127	232	840
3	1646.65	1646.62	323	126	609	1060
4	1646.71	1646.72	178	237	878	1630
5	1646.65	1646.69	172	290	645	1550
6	1646.59	1646.63	113	290	460	1400
7	1646.53	1646.54	212	291	362	1240
8	1646.49	1646.50	211	290	310	1080
9	1646.43	1646.46	133	290	276	846
10	1646.34	1646.38	150	288	257	894
11	1646.34	1646.31	506	290	300	1040
12	1646.45	1646.42	447	290	1020	2060
13	1646.51	1646.50	310	290	1310	2640
14	1646.49	1646.51	229	288	872	2160
15	1646.47	1646.48	523	287	563	1620
16	1646.42	1646.60	-87	287	441	1300
17	1646.39	1646.41	188	286	397	1140
18	1646.32	1646.36	127	284	345	1110
19	1646.27	1646.28	205	284	291	1060
20	1646.20	1646.24	-11	284	254	957
21	1646.08	1646.09	185	283	228	905
22	1645.97	1646.04	-32	283	202	760
23	1645.84	1645.88	124	281	183	748
24	1645.76	1645.80	65	281	173	741
25	1645.67	1645.69	163	281	163	737
26	1645.57	1645.63	124	281	151	746
27	1645.48	1645.55	123	280	144	773
28	1645.49	1645.47	360	281	188	933
29	1645.49	1645.51	260	280	287	1250
30	1645.48	1645.50	240	279	325	1340
31	1645.47	1645.48	240	279	316	1310

AVERAGE 203 268 400 1177

CHANGE IN STORAGE DURING THE MONTH -0.175 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: October 2018

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	1665.31	1665.33	166	300	341	332	2130
2	1665.25	1665.26	204	300	398	527	1880
3	1665.23	1665.21	300	300	793	583	2450
4	1665.18	1665.21	223	300	826	578	3160
5	1665.15	1665.17	185	300	740	527	3140
6	1665.07	1665.11	166	300	521	538	2880
7	1665.06	1665.04	338	300	423	543	2590
8	1665.05	1665.06	243	300	447	581	3180
9	1665.02	1665.03	243	300	395	576	3190
10	1664.98	1665.00	204	300	339	547	2850
11	1665.13	1664.95	1180	300	616	607	2470
12	1665.63	1665.41	1010	206	1360	1030	4810
13	1665.97	1665.83	567	50	1220	1080	6060
14	1666.20	1666.10	433	50	934	414	6060
15	1666.34	1666.30	240	125	784	315	5280
16	1666.43	1666.36	410	200	905	340	4280
17	1666.51	1666.47	353	200	941	321	3780
18	1666.56	1666.55	277	200	815	297	3700
19	1666.60	1666.59	238	200	491	303	3350
20	1666.61	1666.61	219	200	437	325	2810
21	1666.65	1666.62	200	200	399	291	2380
22	1666.63	1666.62	219	200	375	288	2220
23	1666.62	1666.63	181	200	368	296	2020
24	1666.64	1666.62	181	200	338	297	1920
25	1666.61	1666.61	162	200	341	297	1910
26	1666.60	1666.59	181	200	319	361	1870
27	1666.62	1666.58	353	200	389	457	2030
28	1666.75	1666.66	544	200	1140	503	3010
29	1666.90	1666.84	449	200	1250	640	5330
30	1667.03	1666.97	410	200	981	842	6080
31	1667.13	1667.08	410	200	922	681	6010

AVERAGE			338	224	660	490	3380
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CHANGE IN STORAGE DURING THE MONTH 0.31 B.C.F.

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 CHIEF ENGINEER



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

Monthly Report for: October, 2018

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow cfs	Gate Opening (ft)		Reservoir Release (cfs)
				Gate A	Gate B	
1	1785.59	1785.56	20	0.00	0.08	5
2	1785.64	1785.60	35	0.00	0.08	5
3	1785.69	1785.68	12	0.00	0.08	5
4	1785.71	1785.70	16	0.00	0.08	5
5	1785.73	1785.73	5	0.00	0.08	5
6	1785.73	1785.73	5	0.00	0.08	5
7	1785.79	1785.73	31	0.00	0.08	5
8	1785.85	1785.83	5	0.00	0.08	5
9	1785.86	1785.85	5	0.00	0.08	5
10	1785.88	1785.87	5	0.00	0.08	5
11	1785.99	1785.88	52	1.50	1.50	52
12	1785.99	1786.06	152	1.50	1.50	152
13	1785.77	1785.90	91	1.50	1.50	150
14	1785.51	1785.64	47	1.50	1.50	147
15	1785.24	1785.37	32	1.50	1.50	145
16	1785.04	1785.06	48	0.25	0.25	66
17	1785.01	1785.01	22	0.25	0.25	26
18	1784.97	1785.00	9	0.25	0.25	28
19	1784.93	1784.95	17	0.25	0.25	28
20	1784.89	1784.92	17	0.25	0.25	28
21	1784.85	1784.89	6	0.25	0.25	28
22	1784.80	1784.83	10	0.25	0.25	28
23	1784.76	1784.78	24	0.25	0.25	28
24	1784.74	1784.77	12	0.25	0.25	27
25	1784.70	1784.73	9	0.25	0.25	27
26	1784.66	1784.68	12	0.25	0.25	27
27	1784.65	1784.64	50	0.25	0.25	27
28	1784.77	1784.70	79	0.25	0.25	28
29	1784.87	1784.84	46	0.25	0.25	28
30	1784.90	1784.89	35	0.25	0.25	28
31	1784.91	1784.91	35	0.25	0.25	28

AVERAGE 30 38

CHANGE IN STORAGE DURING THE MONTH -0.020 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: October, 2018

Day	Reservoir Elevation Average Daily	Reservoir Elevation Midnight	Net Reservoir Inflow cfs	Gate Opening (ft)		Reservoir Release (cfs)
				Gate A	Gate B	
1	1706.86	1706.83	100	0.00	0.08	35
2	1706.91	1706.87	98	0.00	0.08	4
3	1706.94	1706.93	50	0.50	0.50	20
4	1706.94	1706.95	51	0.50	0.50	51
5	1706.93	1706.95	6	0.50	0.50	51
6	1706.90	1706.92	-28	0.50	0.50	51
7	1706.92	1706.87	160	0.50	0.50	51
8	1706.93	1706.94	-25	0.50	0.50	51
9	1706.89	1706.89	51	0.50	0.50	51
10	1706.88	1706.89	19	0.50	0.50	51
11	1706.92	1706.87	225	4.00	4.00	146
12	1706.89	1706.92	248	4.00	4.00	359
13	1706.79	1706.85	168	4.00	4.00	354
14	1706.66	1706.73	142	4.00	4.00	349
15	1706.50	1706.60	-110	4.00	4.00	344
16	1706.36	1706.31	307	4.00	4.00	338
17	1706.22	1706.29	151	4.00	4.00	248
18	1706.21	1706.23	50	0.67	0.67	82
19	1706.19	1706.21	21	0.67	0.67	82
20	1706.15	1706.17	97	0.67	0.67	82
21	1706.14	1706.18	7	0.67	0.67	82
22	1706.12	1706.13	51	0.67	0.67	81
23	1706.11	1706.11	96	0.67	0.67	81
24	1706.09	1706.12	21	0.67	0.67	81
25	1706.06	1706.08	51	0.67	0.67	81
26	1706.05	1706.06	66	0.67	0.67	81
27	1706.09	1706.05	156	0.67	0.67	81
28	1706.13	1706.10	172	0.67	0.67	82
29	1706.16	1706.16	112	0.67	0.67	82
30	1706.19	1706.18	112	0.67	0.67	82
31	1706.21	1706.20	114	0.67	0.67	82

AVERAGE 88 119

CHANGE IN STORAGE DURING THE MONTH -0.083 B.C.F

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 CHIEF ENGINEER

STATE OF NEW YORK  
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT  
**SACANDAGA RESERVOIR OPERATION**  
 FOR WEEK ENDING: November 3, 2018

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 27	759.68	25.28	12 AM - Mid	1,750	1,370	3,120
Sunday 28	759.65	25.25	12 AM - Mid	1,770	1,640	3,410
Monday 29	759.85	25.46	12 AM - Mid	1,780	1,950	3,730
Tuesday 30	759.89	25.50	12 AM - Mid	2,380	2,090	4,470
Wednesday 31	759.84	25.45	12 AM - Mid	2,270	2,060	4,330
Thursday 1	759.72	25.33	12 AM - Mid	2,140	2,010	4,150
Friday 2	759.61	25.21	12 AM - Mid	2,450	2,650	5,100
Saturday 3	759.88	25.49	12 AM - Mid	2,850	5,100	7,950

CHANGE IN STORAGE DURING THE WEEK	0.21	* SACANDAGA RIVER AT STEWARTS BRIDGE
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2011	765.35	31.33	6	2015	760.00	25.61
2	2010	763.15	28.94	7	2018	759.88	25.49
3	2009	761.73	27.42	8	2013	759.27	24.86
4	2017	760.69	26.33	9	2014	758.15	23.73
5	2012	760.62	26.26	10	2016	754.73	20.35

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

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

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 CHIEF ENGINEER

STATE OF NEW YORK  
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT  
**SACANDAGA RESERVOIR OPERATION**  
FOR WEEK ENDING: November 10, 2018

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 3	759.88	25.49	12 AM - Mid	2,850	5,100	7,950
Sunday 4	760.39	26.02	12 AM - Mid	1,480	6,370	7,850
Monday 5	760.72	26.36	12 AM - Mid	2,070	5,680	7,750
Tuesday 6	760.92	26.57	12 AM - Mid	1,810	5,340	7,150
Wednesday 7	761.58	27.26	12 AM - Mid	1,730	6,330	8,060
Thursday 8	762.22	27.94	12 AM - Mid	2,030	6,550	8,580
Friday 9	762.36	28.09	12 AM - Mid	2,230	5,720	7,950
Saturday 10	762.63	28.38	12 AM - Mid	2,460	5,610	8,070
CHANGE IN STORAGE DURING THE WEEK		2.89	* SACANDAGA RIVER AT STEWARTS BRIDGE			

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2011	763.80	29.64	6	2013	759.03	24.62
2	2018	762.63	28.38	7	2012	758.86	24.44
3	2010	762.21	27.93	8	2015	758.53	24.11
4	2017	761.42	27.10	9	2014	757.39	22.96
5	2009	760.52	26.16	10	2016	755.01	20.62

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

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

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CHIEF ENGINEER

STATE OF NEW YORK  
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT  
**SACANDAGA RESERVOIR OPERATION**  
 FOR WEEK ENDING: November 17, 2018

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 10	762.63	28.38	12 AM - Mid	2,460	5,610	8,070
Sunday 11	762.97	28.74	12 AM - Mid	2,520	5,220	7,740
Monday 12	763.15	28.94	12 AM - Mid	2,720	4,620	7,340
Tuesday 13	763.20	28.99	12 AM - Mid	3,100	4,130	7,230
Wednesday 14	763.26	29.06	12 AM - Mid	2,720	3,980	6,700
Thursday 15	763.21	29.00	12 AM - Mid	2,170	3,600	5,770
Friday 16	763.18	28.97	12 AM - Mid	2,460	3,290	5,750
Saturday 17	763.31	29.11	12 AM - Mid	2,310	3,310	5,620

CHANGE IN STORAGE DURING THE WEEK	0.73	* SACANDAGA RIVER AT STEWARTS BRIDGE
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2018	763.31	29.11	6	2013	757.15	22.72
2	2011	762.34	28.07	7	2012	757.06	22.63
3	2010	761.14	26.80	8	2015	756.93	22.50
4	2017	759.94	25.55	9	2014	756.67	22.25
5	2009	758.97	24.55	10	2016	755.13	20.74

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

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

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 CHIEF ENGINEER

STATE OF NEW YORK  
HUDSON RIVER-BLACK RIVER REGULATING DISTRICT  
**SACANDAGA RESERVOIR OPERATION**  
FOR WEEK ENDING: November 24, 2018

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 17	763.31	29.11	12 AM - Mid	2,310	3,310	5,620
Sunday 18	763.26	29.06	12 AM - Mid	2,270	3,190	5,460
Monday 19	763.21	29.00	12 AM - Mid	2,230	2,990	5,220
Tuesday 20	763.17	28.96	12 AM - Mid	2,230	2,750	4,980
Wednesday 21	763.12	28.90	12 AM - Mid	2,880	2,710	5,590
Thursday 22	763.10	28.88	12 AM - Mid	4,300	2,520	6,820
Friday 23	762.79	28.55	12 AM - Mid	4,310	2,240	6,550
Saturday 24	762.53	28.27	12 AM - Mid	4,270	2,240	6,510

CHANGE IN STORAGE DURING THE WEEK	-0.84	* SACANDAGA RIVER AT STEWARTS BRIDGE
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ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2018	762.53	28.27	6	2015	756.75	22.33
2	2011	761.18	26.84	7	2014	756.07	21.65
3	2010	760.49	26.12	8	2013	755.97	21.55
4	2017	758.82	24.40	9	2012	755.97	21.55
5	2009	758.08	23.65	10	2016	755.33	20.93

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

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

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CHIEF ENGINEER

STATE OF NEW YORK  
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT  
**INDIAN LAKE RESERVOIR OPERATION**  
 FOR WEEK ENDING: November 3, 2018

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 27	1,645.55	2.66	12 AM - Mid	279	144	773
Sunday 28	1,645.47	2.65	12 AM - Mid	279	188	933
Monday 29	1,645.51	2.65	12 AM - Mid	279	287	1,250
Tuesday 30	1,645.50	2.65	12 AM - Mid	278	325	1,340
Wednesday 31	1,645.48	2.65	12 AM - Mid	278	316	1,310
Thursday 1	1,645.46	2.64	12 AM - Mid	278	330	1,290
Friday 2	1,645.47	2.65	12 AM - Mid	281	644	2,170
Saturday 3	1,645.68	2.68	12 AM - Mid	283	1,250	3,630

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	2010	1,646.46	2.81	6	2011	1,644.29	2.44
2	2018	1,645.68	2.68	7	2013	1,643.38	2.30
3	2015	1,645.47	2.65	8	2016	1,642.21	2.11
4	2012	1,645.00	2.57	9	2014	1,642.12	2.09
5	2017	1,644.96	2.56	10	2009	1,640.35	1.82

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

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 CHIEF ENGINEER

STATE OF NEW YORK  
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT  
**INDIAN LAKE RESERVOIR OPERATION**  
 FOR WEEK ENDING: November 10, 2018

DATE	INDIAN LAKE RESERVOIR			INDIAN RIVER	HUDSON RIVER	
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	NEWCOMB AVG. DAILY C.F.S.	NORTH CREEK AVG. DAILY C.F.S.
Saturday 3	1,645.68	2.68	12 AM - Mid	283	1,250	3,630
Sunday 4	1,646.21	2.77	12 AM - Mid	283	1,480	4,400
Monday 5	1,646.34	2.79	12 AM - Mid	283	1,240	3,690
Tuesday 6	1,646.47	2.82	12 AM - Mid	285	967	3,180
Wednesday 7	1,646.68	2.85	12 AM - Mid	472	1,210	3,840
Thursday 8	1,647.08	2.92	12 AM - Mid	530	1,290	3,930
Friday 9	1,647.15	2.93	12 AM - Mid	530	1,020	3,280
Saturday 10	1,647.21	2.94	12 AM - Mid	530	824	2,920
CHANGE IN STORAGE DURING THE WEEK		0.26	* 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	2018	1,647.21	2.94	6	2011	1,643.71	2.35
2	2015	1,645.33	2.62	7	2013	1,643.25	2.27
3	2010	1,645.28	2.61	8	2016	1,642.84	2.21
4	2017	1,645.25	2.61	9	2014	1,641.91	2.06
5	2012	1,644.48	2.48	10	2009	1,638.57	1.55

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

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 CHIEF ENGINEER



STATE OF NEW YORK  
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT  
**INDIAN LAKE RESERVOIR OPERATION**  
 FOR WEEK ENDING: November 17, 2018

DATE	INDIAN LAKE RESERVOIR			INDIAN RIVER	HUDSON RIVER	
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	NEWCOMB AVG. DAILY C.F.S.	NORTH CREEK AVG. DAILY C.F.S.
Saturday 10	1,647.21	2.94	12 AM - Mid	530	824	2,920
Sunday 11	1,647.26	2.95	12 AM - Mid	529	679	2,580
Monday 12	1,647.10	2.92	12 AM - Mid	527	548	2,080
Tuesday 13	1,646.99	2.90	12 AM - Mid	524	471	2,000
Wednesday 14	1,646.86	2.88	12 AM - Mid	522	415	1,940
Thursday 15	1,646.75	2.86	12 AM - Mid	520	346	1,690
Friday 16	1,646.56	2.83	12 AM - Mid	519	332	1,590
Saturday 17	1,646.48	2.82	12 AM - Mid	516	321	1,650

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

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2018	1,646.48	2.82	6	2011	1,643.32	2.29
2	2015	1,645.19	2.60	7	2016	1,643.28	2.28
3	2010	1,644.01	2.40	8	2013	1,642.56	2.16
4	2017	1,643.77	2.36	9	2014	1,641.86	2.05
5	2012	1,643.57	2.33	10	2009	1,637.70	1.42

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

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 CHIEF ENGINEER

STATE OF NEW YORK  
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT  
**INDIAN LAKE RESERVOIR OPERATION**  
 FOR WEEK ENDING: November 24, 2018

DATE	INDIAN LAKE RESERVOIR			INDIAN RIVER	HUDSON RIVER	
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	RELEASE AVG. DAILY C.F.S.*	NEWCOMB AVG. DAILY C.F.S.	NORTH CREEK AVG. DAILY C.F.S.
Saturday 17	1,646.48	2.82	12 AM - Mid	516	321	1,650
Sunday 18	1,646.30	2.79	12 AM - Mid	513	290	1,570
Monday 19	1,646.18	2.77	12 AM - Mid	511	267	1,360
Tuesday 20	1,646.01	2.74	12 AM - Mid	510	249	1,370
Wednesday 21	1,645.84	2.71	12 AM - Mid	507	234	1,360
Thursday 22	1,645.69	2.68	12 AM - Mid	502	206	1,300
Friday 23	1,645.49	2.65	12 AM - Mid	500	194	1,220
Saturday 24	1,645.30	2.62	12 AM - Mid	500	190	1,300

CHANGE IN STORAGE DURING THE WEEK	-0.20	* 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	2015	1,645.52	2.65	6	2010	1,643.24	2.27
2	2018	1,645.30	2.62	7	2011	1,642.87	2.21
3	2016	1,643.97	2.39	8	2012	1,642.56	2.16
4	2017	1,643.33	2.29	9	2014	1,641.86	2.05
5	2013	1,643.26	2.28	10	2009	1,638.35	1.52

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

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 CHIEF ENGINEER

STATE OF NEW YORK  
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT  
**STILLWATER RESERVOIR OPERATION**  
 FOR WEEK ENDING: **November 3, 2018**

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 27	1,666.58	1.97	12 AM -Mid	200	457	2,030
Sunday 28	1,666.66	1.98	12 AM -Mid	200	503	3,010
Monday 29	1,666.84	2.01	12 AM -Mid	200	640	5,330
Tuesday 30	1,666.97	2.03	12 AM -Mid	200	842	6,080
Wednesday 31	1,667.08	2.05	12 AM -Mid	200	681	6,010
Thursday 1	1,667.19	2.07	12 AM -Mid	200	475	5,540
Friday 2	1,667.38	2.10	12 AM -Mid	200	662	6,510
Saturday 3	1,667.85	2.18	12 AM -Mid	200	1,100	7,680

CHANGE IN STORAGE DURING THE WEEK

0.21

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2010	1,674.35	3.48	6	2011	1,669.13	2.39
2	2015	1,670.47	2.63	7	2016	1,668.29	2.25
3	2017	1,670.21	2.57	8	2018	1,667.85	2.18
4	2014	1,670.00	2.53	9	2013	1,667.06	2.05
5	2009	1,669.66	2.48	10	2012	1,666.81	2.00

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

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 CHIEF ENGINEER

STATE OF NEW YORK  
 HUDSON RIVER-BLACK RIVER REGULATING DISTRICT  
**STILLWATER RESERVOIR OPERATION**  
 FOR WEEK ENDING: **November 10, 2018**

DATE	STILLWATER RESERVOIR			BEAVER RIVER		BLACK RIVER
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	STILLWATER RELEASE AVG. DAILY C.F.S.	CROGHAN AVG. DAILY FLOW C.F.S.	WATERTOWN AVG. DAILY FLOW C.F.S.
Saturday 3	1,667.85	2.18	12 AM -Mid	200	1,100	7,680
Sunday 4	1,668.19	2.23	12 AM -Mid	200	1,000	8,300
Monday 5	1,668.47	2.28	12 AM -Mid	200	705	8,260
Tuesday 6	1,668.65	2.31	12 AM -Mid	200	741	7,810
Wednesday 7	1,668.86	2.34	12 AM -Mid	200	475	7,610
Thursday 8	1,669.13	2.39	12 AM -Mid	200	630	7,550
Friday 9	1,669.37	2.43	12 AM -Mid	250	652	7,750
Saturday 10	1,669.57	2.46	12 AM -Mid	300	563	8,030
CHANGE IN STORAGE DURING THE WEEK		0.28				

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2010	1,673.93	3.38	6	2009	1,669.50	2.45
2	2017	1,672.41	3.04	7	2011	1,668.17	2.23
3	2015	1,670.41	2.62	8	2016	1,667.97	2.20
4	2014	1,669.67	2.48	9	2013	1,667.85	2.18
5	2018	1,669.57	2.46	10	2012	1,666.71	1.99

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

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 CHIEF ENGINEER

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

FOR WEEK ENDING: **November 17, 2018**

DATE	STILLWATER RESERVOIR			BEAVER RIVER		BLACK RIVER
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	STILLWATER RELEASE AVG. DAILY C.F.S.	CROGHAN AVG. DAILY FLOW C.F.S.	WATERTOWN AVG. DAILY FLOW C.F.S.
Saturday 10	1,669.57	2.46	12 AM -Mid	300	563	8,030
Sunday 11	1,669.79	2.50	12 AM -Mid	300	739	8,270
Monday 12	1,669.96	2.53	12 AM -Mid	300	715	8,160
Tuesday 13	1,670.07	2.55	12 AM -Mid	300	576	7,790
Wednesday 14	1,670.18	2.57	12 AM -Mid	300	509	6,970
Thursday 15	1,670.25	2.58	12 AM -Mid	350	571	6,220
Friday 16	1,670.30	2.59	12 AM -Mid	400	567	5,260
Saturday 17	1,670.39	2.61	12 AM -Mid	400	631	4,810

CHANGE IN STORAGE DURING THE WEEK	0.15
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**ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST TEN YEARS**

NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2010	1,673.26	3.23	6	2014	1,668.58	2.30
2	2017	1,672.22	2.99	7	2013	1,668.49	2.28
3	2015	1,670.85	2.70	8	2011	1,667.59	2.13
4	2018	1,670.39	2.61	9	2016	1,667.00	2.04
5	2009	1,668.99	2.37	10	2012	1,666.45	1.95

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

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CHIEF ENGINEER

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

FOR WEEK ENDING: **November 24, 2018**

DATE	STILLWATER RESERVOIR			BEAVER RIVER		BLACK RIVER
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	PERIODS OF RELEASE	STILLWATER RELEASE AVG. DAILY C.F.S.	CROGHAN AVG. DAILY FLOW C.F.S.	WATERTOWN AVG. DAILY FLOW C.F.S.
Saturday 17	1,670.39	2.61	12 AM -Mid	400	631	4,810
Sunday 18	1,670.44	2.62	12 AM -Mid	300	624	4,780
Monday 19	1,670.46	2.63	12 AM -Mid	300	473	4,520
Tuesday 20	1,670.49	2.63	12 AM -Mid	408	564	4,320
Wednesday 21	1,670.45	2.62	12 AM -Mid	500	528	4,040
Thursday 22	1,670.38	2.61	12 AM -Mid	500	622	3,640
Friday 23	1,670.30	2.59	12 AM -Mid	500	680	2,820
Saturday 24	1,670.24	2.58	12 AM -Mid	500	652	3,000

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	2010	1,672.89	3.14	6	2013	1,669.55	2.46
2	2017	1,672.21	2.99	7	2009	1,668.84	2.34
3	2011	1,671.11	2.76	8	2014	1,667.65	2.14
4	2015	1,670.78	2.69	9	2016	1,666.76	2.00
5	2018	1,670.24	2.58	10	2012	1,665.98	1.87

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

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CHIEF ENGINEER

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

FOR WEEK ENDING: **November 3, 2018**

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 27	1,706.05	0.782	81	1,784.64	0.253	27
Sunday 28	1,706.10	0.789	82	1,784.70	0.255	28
Monday 29	1,706.16	0.797	82	1,784.84	0.260	28
Tuesday 30	1,706.18	0.799	82	1,784.89	0.261	28
Wednesday 31	1,706.20	0.802	82	1,784.91	0.262	28
Thursday 1	1,706.22	0.805	122	1,784.93	0.263	43
Friday 2	1,706.27	0.812	142	1,784.99	0.264	50
Saturday 3	1,706.32	0.819	142	1,785.13	0.269	51
CHANGE IN STORAGE		0.036			0.016	

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	2018	1,706.32	0.819	1	2018	1,785.13	0.269
2	2017	1,705.90	0.763	2	2016	1,784.53	0.250
3	2016	1,705.89	0.762	3	2014	1,784.45	0.247
4	2015	1,705.79	0.749	4	2015	1,784.30	0.243
5	2014	1,705.59	0.723	5	2017	1,784.12	0.237

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

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CHIEF ENGINEER

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

FOR WEEK ENDING: **November 10, 2018**

DATE	OLD FORGE RESERVOIR			SIXTH LAKE RESERVOIR		
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.
Saturday 3	1,706.32	0.819	142	1,785.13	0.269	51
Sunday 4	1,706.35	0.822	142	1,785.22	0.272	51
Monday 5	1,706.38	0.826	206	1,785.26	0.273	74
Tuesday 6	1,706.40	0.829	333	1,785.21	0.271	127
Wednesday 7	1,706.31	0.817	330	1,785.12	0.269	127
Thursday 8	1,706.25	0.809	328	1,785.08	0.267	126
Friday 9	1,706.20	0.802	327	1,784.98	0.264	125
Saturday 10	1,706.19	0.801	324	1,784.89	0.261	125
CHANGE IN STORAGE		-0.018			-0.008	

ELEVATIONS AND CAPACITIES ON THIS DATE FOR THE PAST FIVE YEARS

OLD FORGE RESERVOIR				SIXTH LAKE RESERVOIR			
NO.	YEAR	ELEV.	CAPACITY	NO.	YEAR	ELEV.	CAPACITY
1	2018	1,706.19	0.801	1	2018	1,784.89	0.261
2	2014	1,705.48	0.708	2	2014	1,784.04	0.234
3	2017	1,705.45	0.704	3	2016	1,784.00	0.233
4	2015	1,705.45	0.704	4	2017	1,783.70	0.224
5	2016	1,705.44	0.703	5	2015	1,783.65	0.222

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

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CHIEF ENGINEER



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

FOR WEEK ENDING: **November 17, 2018**

DATE	OLD FORGE RESERVOIR			SIXTH LAKE RESERVOIR		
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.
Saturday 10	1,706.19	0.801	324	1,784.89	0.261	125
Sunday 11	1,706.05	0.782	320	1,784.79	0.258	124
Monday 12	1,706.01	0.777	317	1,784.67	0.254	123
Tuesday 13	1,705.90	0.763	313	1,784.51	0.249	121
Wednesday 14	1,705.80	0.750	309	1,784.36	0.244	120
Thursday 15	1,705.70	0.737	305	1,784.18	0.239	119
Friday 16	1,705.61	0.725	302	1,784.01	0.234	118
Saturday 17	1,705.55	0.717	299	1,783.92	0.231	116
CHANGE IN STORAGE		-0.083			-0.031	

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	2018	1,705.55	0.717	1	2018	1,783.92	0.231
2	2015	1,705.37	0.694	2	2016	1,783.92	0.231
3	2017	1,705.34	0.690	3	2014	1,783.72	0.224
4	2016	1,705.18	0.669	4	2015	1,783.63	0.222
5	2014	1,705.12	0.662	5	2017	1,782.94	0.200

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

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CHIEF ENGINEER

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

FOR WEEK ENDING: **November 24, 2018**

DATE	OLD FORGE RESERVOIR			SIXTH LAKE RESERVOIR		
	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.	WATER SURFACE ELEV. 12 A.M.	AVAIL. STORAGE B.C.F.	RELEASE AVG. DAILY C.F.S.
Saturday 17	1,705.55	0.717	299	1,783.92	0.231	116
Sunday 18	1,705.45	0.704	295	1,783.75	0.225	115
Monday 19	1,705.35	0.691	291	1,783.57	0.220	113
Tuesday 20	1,705.23	0.676	286	1,783.38	0.214	111
Wednesday 21	1,705.10	0.659	214	1,783.20	0.208	109
Thursday 22	1,705.02	0.649	179	1,783.03	0.203	107
Friday 23	1,704.98	0.643	178	1,782.83	1,784.360	105
Saturday 24	1,704.95	0.639	178	1,782.65	0.191	104
CHANGE IN STORAGE		-0.078			-0.039	

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	2014	1,705.24	0.677	1	2016	1,783.88	0.229
2	2017	1,705.23	0.676	2	2014	1,783.71	0.224
3	2015	1,705.13	0.663	3	2015	1,783.60	0.221
4	2016	1,705.02	0.649	4	2017	1,782.69	0.193
5	2018	1,704.95	0.639	5	2018	1,782.65	0.191

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

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CHIEF ENGINEER