

## Higgins Lake Level Attrition in Fall/Winter of Year -- 2007 CY (Dam Reconstruction) to Date

A	B	C	D	E	F	Ice Over Info:				K	L	M	N	O	P	Q	Ice Out Info:		T
Fall thru Spring of Years	Date Dam is First Opened for Winter Draw Down	USGS Lake Gauge Height on Dam Open Date (ft.)	Inches Below Legal Level (LL) on Dam Open Date	Inches Above Winter Level (W6 or T9) on Dam Open Date (i.e.: Head Pressure)	%	Obs'vd Ice Over Date (approx.)	Lake Gauge Height on Ice Over Date (ft.)	% of 6" Draw Down Ach'vd by Ice Over Date	Drop from Dam Open to Ice Over Dates	Date Lowest Level Ach'vd Prior to Ice Out	Lake Gauge Height on "K" Date (ft.)	Inches of Draw Down Ach'vd After Dam is Opened	Total Draw from Legal Level (LL) (in.)	Court Order Max Draw Down (in.)	Did Actual Draw Exceed Court Order?	% of Court Ord'd Draw Down Ach'vd	Obs'vd Ice Out Date (approx.)	Lake Gauge Height on Ice Out Date (ft.)	Memo: Level Drop - Nov 1st to Dec 31st (in.)
		Calculation = (see Foot Note 3)	(LL-C) x 12	D/O x 100%	(C-W6" or T9") x 12			(LL-H) / 0.5	(C-H) x 12			(C - L) x 12	(LL - L) x 12	N>O?	N/O x 100%			(If Neg. = Raised)	
2007-08	N/A	4.99	4.56	76%	1.44	19-Jan	5.06	62%	N/A	16-Oct	4.68	N/A	8.28	6	Yes	138%	19-Apr	5.10	-3.00
2008-09	5-Sep	5.18	2.28	38%	3.72	17-Dec	4.70	134%	5.76	23-Nov	4.60	6.96	9.24	6	Yes	154%	10-Apr	5.03	-2.88
2009-10	5-Oct	5.08	3.48	39%	5.52	6-Jan	4.78	118%	3.60	7-Mar	4.69	4.68	8.16	9	No	91%	1-Apr	4.80	3.12
2010-11	15-Sep*	5.20	2.04	23%	6.96	23-Dec	4.67	140%	6.36	21-Nov	4.58	7.44	9.48	9	Yes	105%	12-Apr	5.02	1.20
2011-12	11-Oct	4.91	5.52	61%	3.48	19-Jan	4.71	132%	2.40	26-Dec	4.63	3.36	8.88	9	No	99%	22-Mar	4.98	2.64
2012-13	23-Oct*	4.86	6.12	68%	2.88	21-Jan	4.79	116%	0.84	22-Nov	4.63	2.76	8.88	9	No	99%	30-Apr	5.26	0.24
2013-14	16-Oct	5.09	3.36	37%	5.64	16-Dec	4.91	92%	2.16	24-Mar	4.80	3.48	6.84	9	No	76%	28-Apr	5.14	1.20
2014-15	29-Oct	5.30	0.84	14%	5.16	10-Jan	5.07	60%	2.76	18-Mar	4.86	5.28	6.12	6	Yes	102%	20-Apr	5.13	2.04
2015-16	2-Nov*	5.03	4.08	68%	1.92	19-Jan	4.99	76%	0.48	10-Dec	4.86	2.04	6.12	6	Yes	102%	25-Mar	5.10	0.00
2016-17	1-Nov*	4.99	4.56	76%	1.44	7-Jan	4.94	86%	0.60	23-Nov	4.86	1.56	6.12	6	Yes	102%	9-Apr	5.25	0.12
2017-18	1-Nov	5.34	0.36	6%	5.64	27-Dec	4.98	78%	4.32	26-Mar	4.9	5.3	5.64	6	No	94%	3-May	5.29	0.37
2018-19														6					
2019-20														6					
2020-21														6					
2021-22														6					
2022-23														6					

\* Partial or full dam closure occurred after this date and before the end of the year.

**Note 1:** For data of this type to be statistically valid, it requires a minimum study period of several decades during which time a consistent dam operating procedure is followed. Beginning in 2014 CY, the County honored the Asst. Prosecutor's interpretation of the Court Order that no dam gates shall be opened prior to Nov 1st to commence the start of the winter drawdown.

**Note 2:** The County is responsible for managing the dam such that the lake levels are maintained and adjusted in accordance with the Asst. Prosecutor's interpretation of the 1926 & 1982 Court Orders.

**Note 3: Gauge Height Levels:**

- LL = 5.37 Feet Legal (summer) Level per 1926 Court Order (1154.11 ft. above sea level). The Order does not define it as a "do not exceed" or "maximum" level.
- W6" = 4.87 Feet Lowest Winter Level allowed per 1982 Court Order, defined as not more than 6" (0.5 ft.) below the Legal (summer) Level.
- T9" = 4.62 Feet Trial 5 year Winter Level per 2009 Court Order, defined as not more than 9" (0.75 ft) below Legal (summer) Level; it expired April, 2014