

Higgins Lake Level Attrition in Fall Thru Spring 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 & % of Court Ord'd Draw Down on Same Date.	Inches Above Winter Level (W6 or T9) on Dam Open Date (i.e.: Head Pressure)	(LL-C) x 12	D/O x 100%	(C-W6" or T9") x 12	Obs'vd Ice Over Date (approx.)	Lake Gauge Height on Ice Over Date (ft.)	% of 6" Draw Down Ach'vd by Ice Over Date	Level Drop - From Dam Open to Ice Over Date (in.)	Date Lowest Level First 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 Down from Legal Level (LL) (in.)	Court Order Max Draw Down (in.)	Did Total Draw Exceed Court Order?	% of Court Ord'd Draw Down Ach'vd	N/O x 100%	Obs'vd Ice Out Date (approx.)	Lake Gauge Height on Ice Out Date (ft.)	Memo: Level Drop - Nov 1st to Dec 31st (in.) (If Neg = Raised)
								(C-H) x 12	(C-L) x 12	(LL-L) x 12	N>O?	(If Neg = Raised)										
2007-08	N/A	4.99	4.56	76%	1.44		19-Jan	5.06	62%	N/A	10/16/07	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	11/23/08	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	3/7/10	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	11/21/10	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	12/26/11	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	11/22/12	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	3/24/14	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	3/18/15	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	12/10/15	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	11/23/16	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	3/26/18	4.90	5.28	5.64	6	No	94%		3-May	5.29	4.44	
2018-19	1-Nov*	4.98	4.68	78%	1.32		13-Jan	4.99	76%	-0.12	8/24/18	4.87	1.32	6.00	6	No	100%		23-Apr	5.23	0.24	
2019-20	1-Nov	5.34	0.36	6%	5.64		12-Jan	5.26	22%	0.96	3/18/20	5.06	3.4	3.72	6	No	62%		8-Apr	5.21	1.08	
2020-21																						
2021-22																						
2022-23																						

* 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. As of 2014, the County has honored the Asst. Prosecutor's interpretation of the Court Order that the gates shall be opened on or about Nov 1st to begin drawing the lake down for the winter.

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, i.e.: dam is to be closed on or about April 15th or Ice Out (whichever first occurs) and opened on or about Nov 1st to begin drawing the lake down for the winter.

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 <u>not more than 6" (0.5 ft.) below</u> the Legal (summer) Level.
T9" =	4.62 Feet	Trial 5 year Winter Level per 2009 Court Order, defined as <u>not more than 9" (0.75 ft.) below</u> Legal (summer) Level. It expired April, 2014