

MEMO

TO: Town of Delavan Lake Committee
FROM: Delavan Lake Sanitary District
RE: DLSD Lake Management Activities for January
DATE: January 31, 2018

LAKE MONITORING RECORDS

January Precipitation - 1.70 inches
Number of Run-off events - 1
Precipitation Year-to-date - 1.70 inches
Ice Off Date - February 24, 2017
Ice On Date - December 26, 2017
November Secchi Disc Readings: Maximum - 7.5 ft.
Average - 7.5 ft.

LAKE LEVEL

DNR Winter Lake Elevation Expectations - 927.10 feet
Average Lake Elevation - 927.73 feet

LAKE MANAGEMENT PROGRAM

Conveyors reconditioning completed and stowed away.

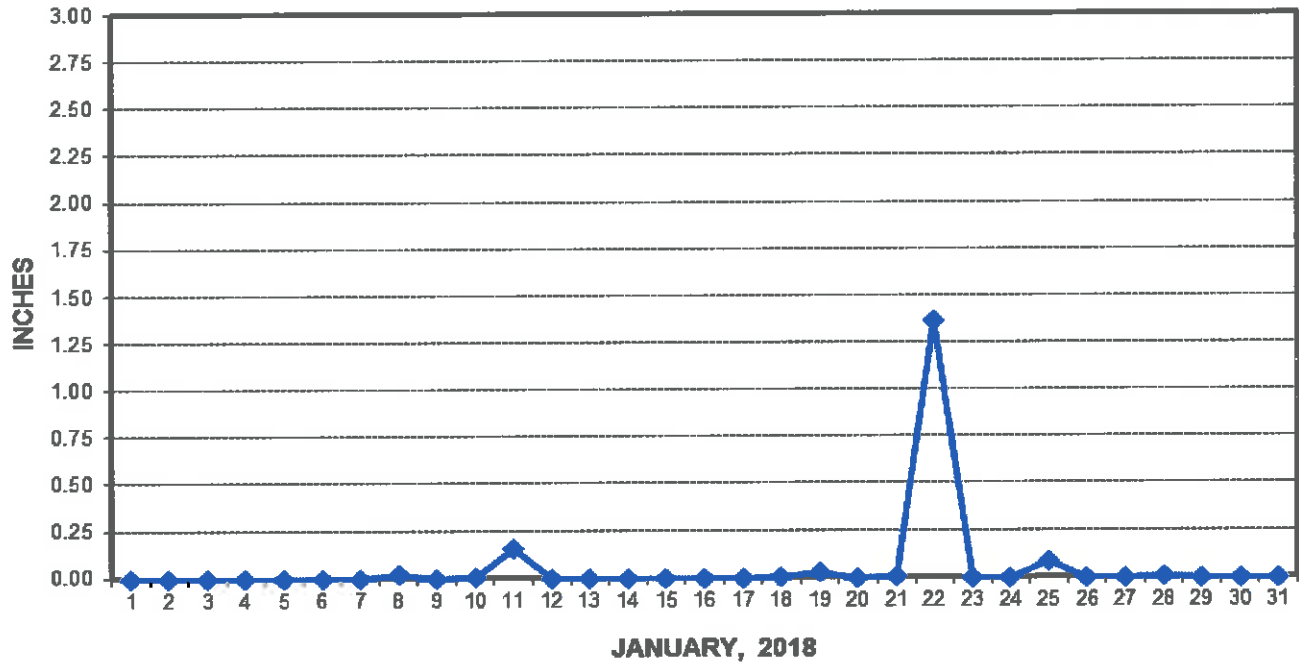
Continued work on the harvesters is still in progress. Items such as cutters, fuel lines, alternator, belts and bearings are being evaluated and replaced as needed.

Plant matter disposal site is being sought out. This will be an ongoing project.

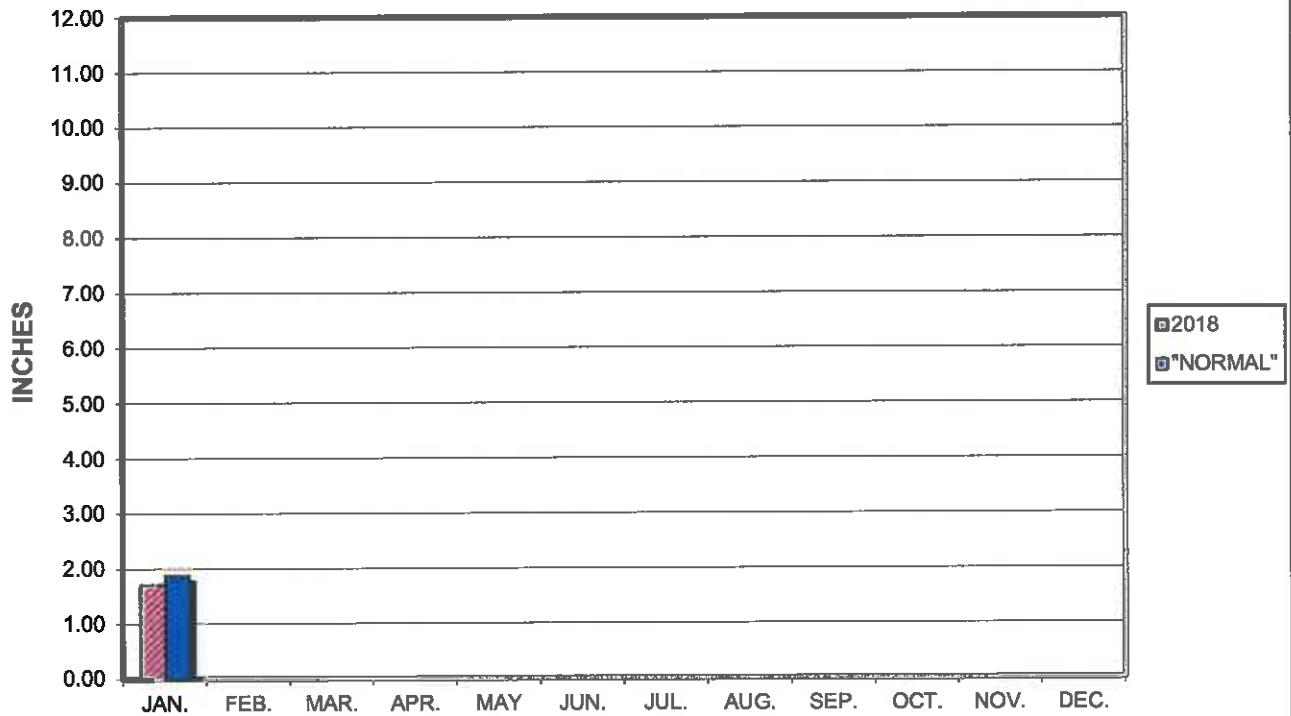
Gate #3 gear-box failed with the gate in a 75% open position on 12/30. Staff along with The Town Staff and Crane Engineering was able to disassemble gear box and gate lifting rod to get the gate closed. Town will be working on repairs.

Encl.: (3)

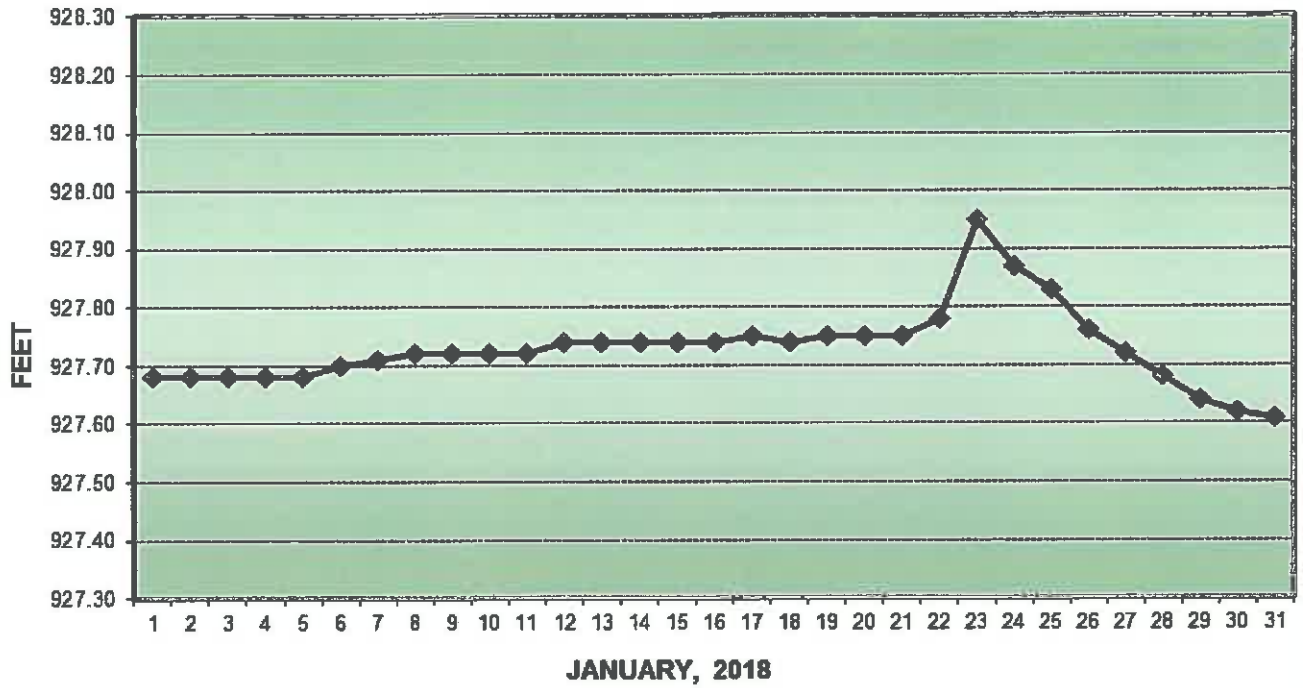
PRECIPITATION - DELAVAN LAKE, WI



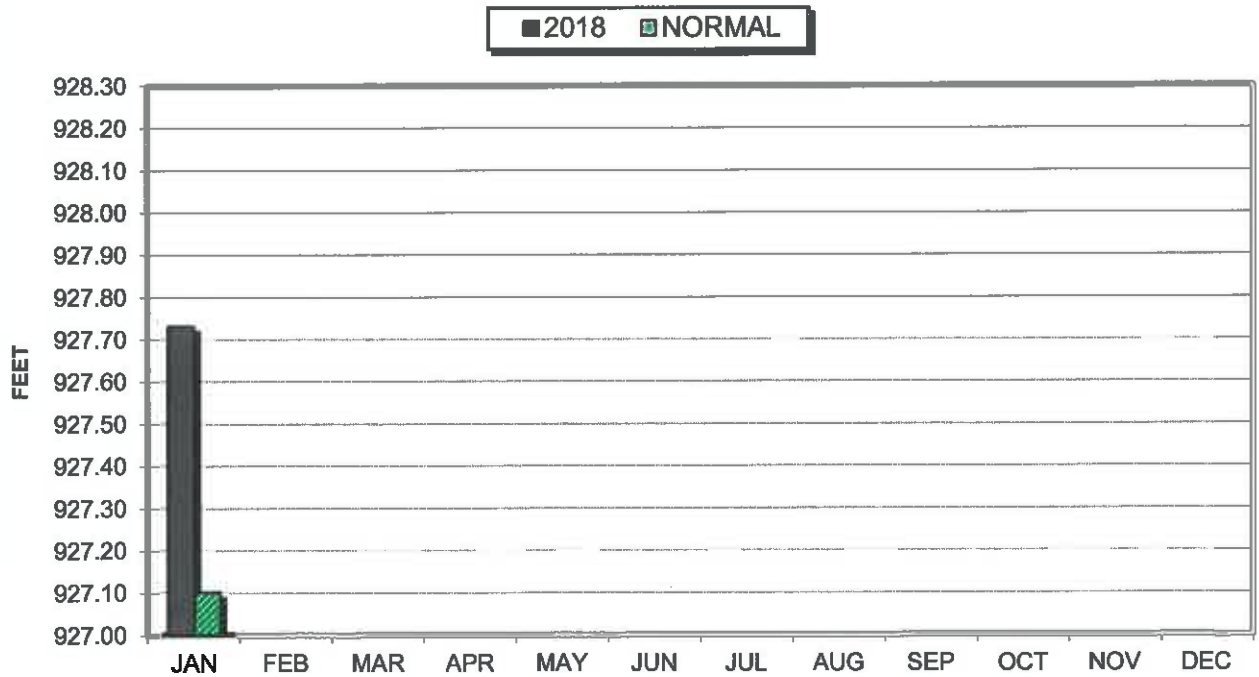
PRECIPITATION - DELAVAN LAKE, WI



LAKE ELEVATION - DELAVAN LAKE, WI



AVERAGE LAKE ELEVATION - DELAVAN LAKE, WI



**DATA SUMMARY
DELAVAN LAKE, WISCONSIN**

Month	Ice On Date	Ice Off Date	Air Temperature			Precipitation		Lake Water Temp.	Average Lake Elevation	Secchi Disc		Cubic Yards Harvested	
			Max.	Min.	Mean	Month (in inches)	Yr to Date (in inches)			Average (in Feet)	Maximum (in Feet)	Month	YTD
2016													
JAN	1/11/16		42	-6	18	0.99	0.99	-	927.73	-	-	-	-
FEB			59	0	29	0.63	1.62	-	927.82	-	-	-	-
MAR		3/9/16	68	1	34	4.10	5.72	42	927.74	18.7	23.0	-	-
APR			82	21	52	1.61	7.33	44	927.91	16.3	23.0	-	-
MAY			87	32	60	3.33	10.66	56	927.85	17.7	24.0	-	-
JUN			91	48	70	3.42	14.08	72	927.86	13.4	24.0	212	212
JUL			92	50	71	3.03	17.11	77	927.86	8.0	12.0	861	1073
AUG			90	51	71	3.93	21.04	79	927.88	8.7	11.0	608	1681
SEP			91	48	70	2.78	23.82	74	927.86	12.0	13.0	925	2606
OCT			81	32	57	3.07	26.89	64	927.81	6.8	7.5	395	3001
NOV			75	18	47	3.26	30.15	57	927.80	13.7	14.0	277	3278
DEC	12/18/16		47	-14	17	1.90	32.05	-	927.76	-	-	-	-
2017													
JAN			54	-2	26	2.49	2.49	-	927.71	-	-	-	-
FEB			68	10	39	2.53	5.02	-	927.61	-	-	-	-
MAR		2/24/17	75	11	32	2.88	7.90	-	927.66	-	-	-	-
APR			81	30	56	6.01	13.91	49	927.79	30.0	30.0	-	-
MAY			86	32	59	4.03	17.94	54	927.87	19.7	26.0	296	296
JUN			93	47	70	6.39	24.33	68	927.87	12.6	19.0	1047	1343
JUL			89	54	72	7.18	31.51	76	928.22	5.9	10.0	840	2183
AUG			84	44	64	1.64	33.15	73	927.87	6.2	7.0	1157	3340
SEP			94	40	67	0.27	33.42	72	927.77	6.1	9.0	113	3453
OCT			83	31	57	4.73	38.15	64	927.72	6.9	7.6	-	-
NOV			63	13	38	1.42	39.57	45	927.58	7.5	7.5	-	-
DEC	12/26/17		61	27	-7	0.10	39.67	-	927.64	-	-	-	-
2018													
JAN			54	-12	21	1.70	1.70	-	927.73	-	-	-	-