

MEMO

TO: Town of Delavan Lake Committee
FROM: Delavan Lake Sanitary District
RE: DLSD Lake Management Activities for December
DATE: December 28, 2018

LAKE MONITORING RECORDS

December Precipitation - 1.69 inches
Number of Run-off events - 0
Precipitation Year-to-date - 43.21 inches
Ice On Date - December 10, 2018
Ice Off Date - March 24, 2018

October Secchi Disc Readings: Maximum - 8.5 feet
Average - 6.4 feet

LAKE LEVEL

DNR Summer Lake Elevation Expectations - 927.86 feet
Average Lake Elevation - 927.71 feet

LAKE MANAGEMENT PROGRAM

DLSD is continuing efforts to work with property owners to assist with a Healthy Lakes Grant for 2019. A total of 15 projects have been applied for on this grant.

Work will continue on the Brown's channel watershed area marking out the lot lines and platted road way hopefully to be used as the hiking trail area. Invasive species and erosion issues will be identified for future projects in the watershed.

DLSD has pursued a refurbishing grant to assist in the cost to rehab one more Harvester with updated engines and hydraulics for 2019.

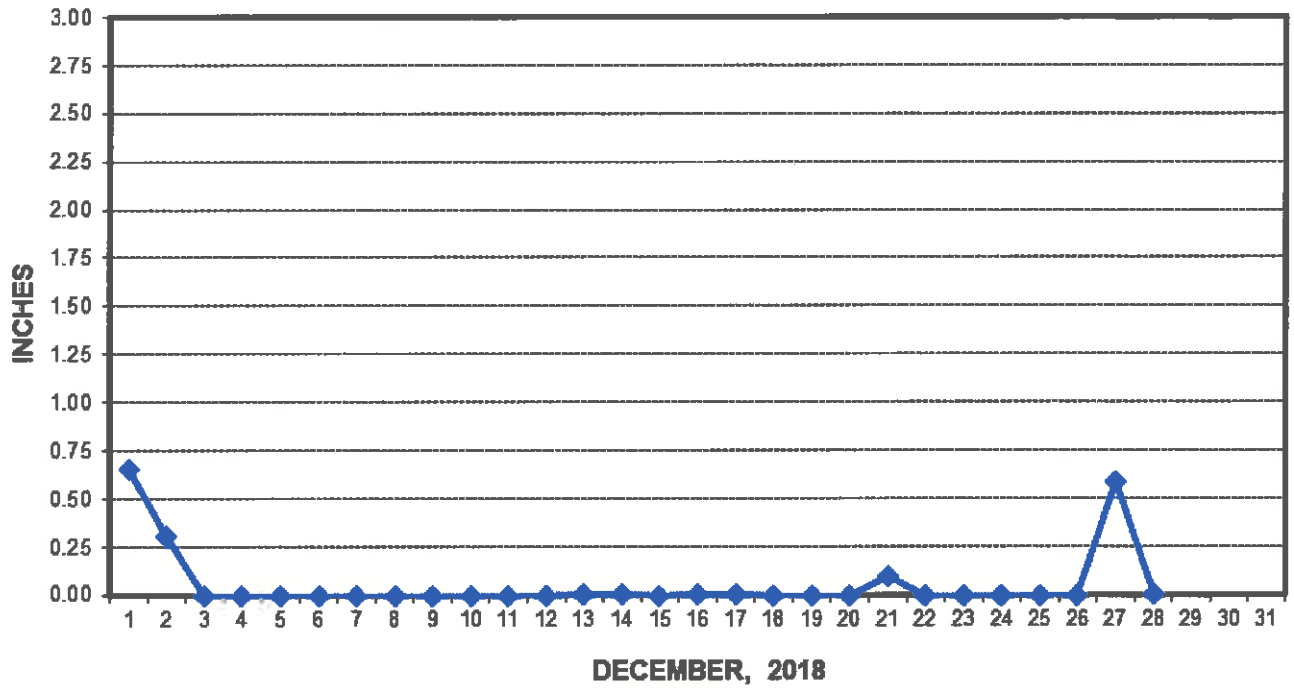
A new harvester and shore conveyor were delivered on December 20, 2018 from the grant program.

Winter projects and research on future grants will be underway.

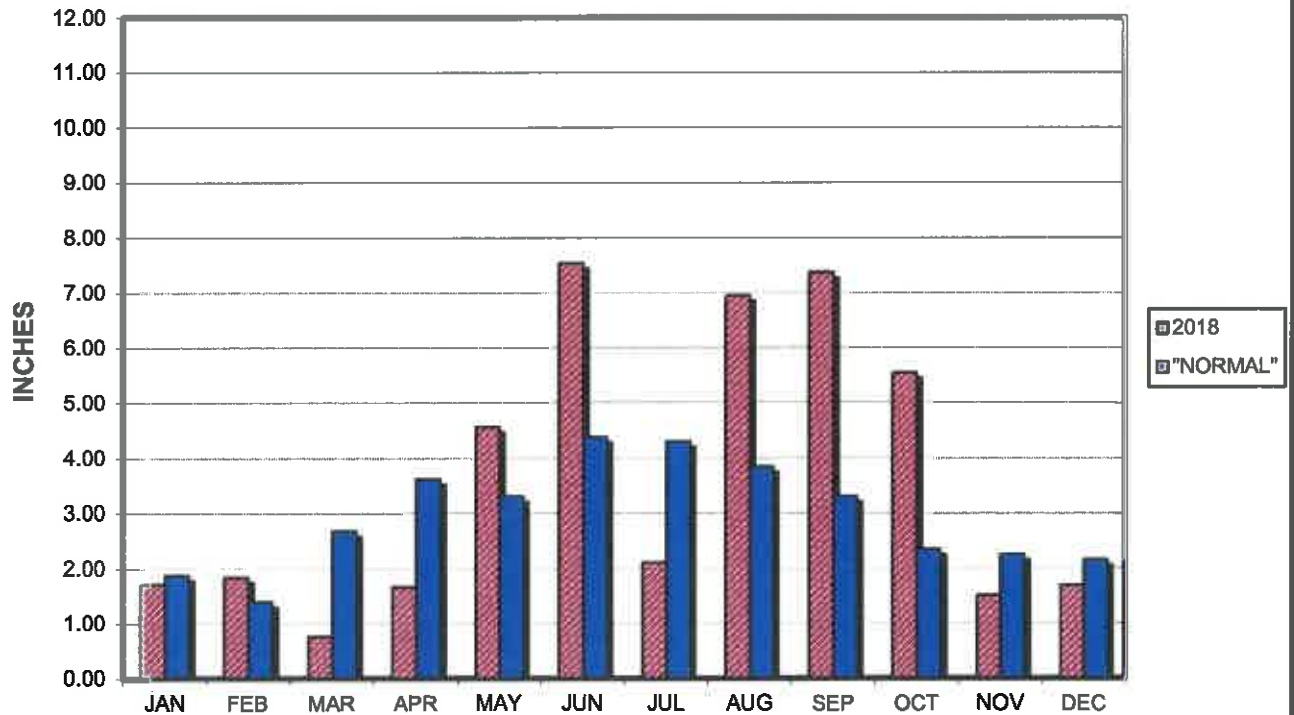
An observation was made on December 28, 2018 that Delavan Lake was partial ice off with opening in the main body of water and shorelines still ice covered.

Encl.: (3)

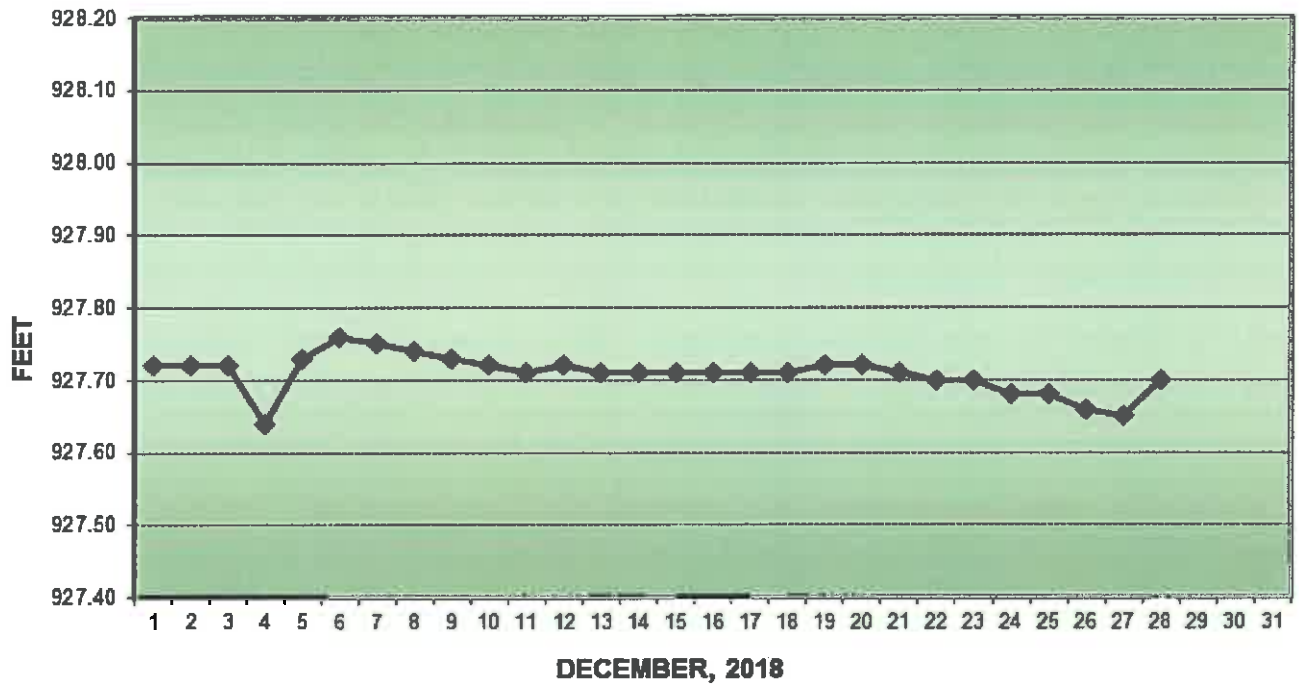
PRECIPITATION - DELAVAN LAKE, WI



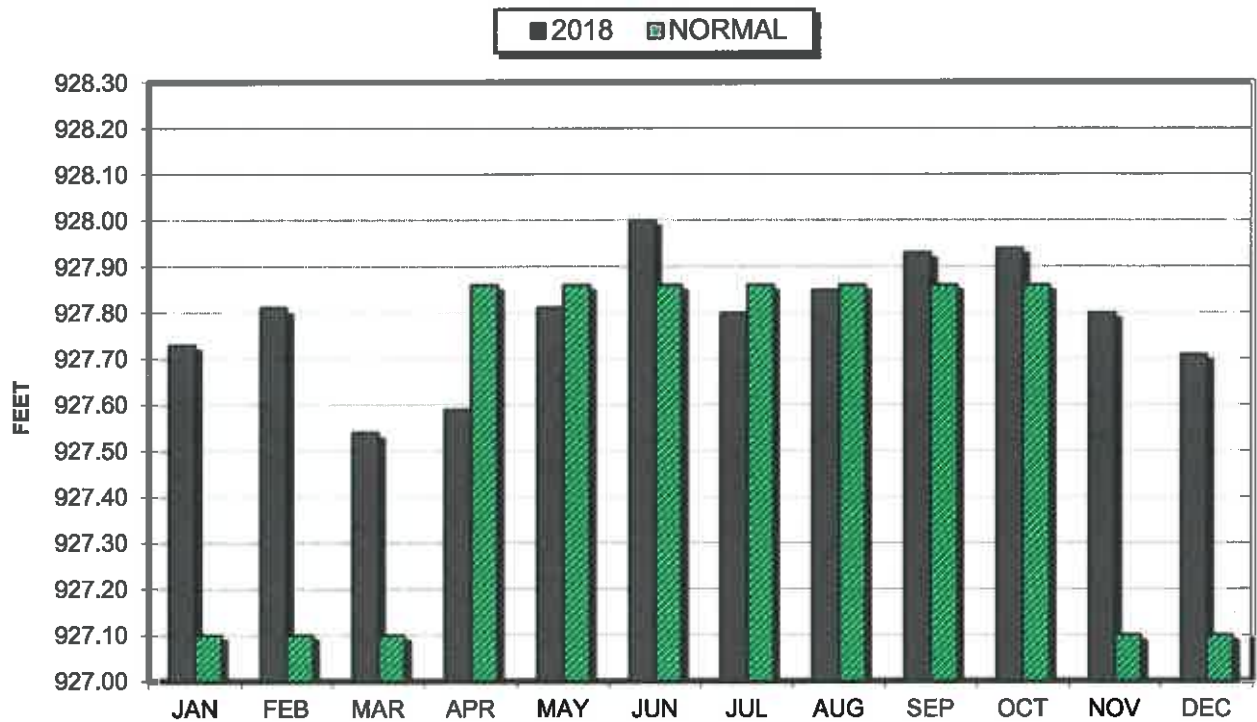
PRECIPITATION - DELAVAN LAKE, WI



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 Foot)	Maximum (In Foot)	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	212	212
JUN			91	48	70	3.42	14.08	72	927.86	13.4	24.0	861	1073
JUL			92	50	71	3.03	17.11	77	927.86	8.0	12.0	608	1681
AUG			90	51	71	3.93	21.04	79	927.88	8.7	11.0	925	2606
SEP			91	48	70	2.78	23.82	74	927.86	12.0	13.0	395	3001
OCT			81	32	57	3.07	26.89	64	927.81	6.8	7.5	277	3278
NOV			75	18	47	3.26	30.15	57	927.80	13.7	14.0	-	-
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	2/24/17		68	10	39	2.53	5.02	-	927.61	-	-	-	-
MAR			75	11	32	2.88	7.90	-	927.66	-	-	-	-
APR			81	30	56	6.01	13.91	49	927.79	30.0	30.0	296	296
MAY			86	32	59	4.03	17.94	54	927.87	19.7	26.0	1047	1343
JUN			93	47	70	6.39	24.33	68	927.87	12.6	19.0	840	2183
JUL			89	54	72	7.18	31.51	76	928.22	5.9	10.0	1157	3340
AUG			84	44	64	1.64	33.15	73	927.87	6.2	7.0	113	3453
SEP			94	40	67	0.27	33.42	72	927.77	6.1	9.0	-	-
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	-	-	-	-
FEB			58	-11	24	1.83	3.53	-	927.81	-	-	-	-
MAR	3/24/18		57	15	36	0.76	4.29	-	927.54	-	-	-	-
APR			81	17	49	1.67	5.96	44	927.59	11.0	9.8	275	275
MAY			96	39	68	4.56	10.52	64	927.81	24.0	30.0	749	1024
JUN			93	47	70	7.53	18.05	70	928.00	7.5	11.0	1484	2508
JUL			91	52	72	2.11	20.16	78	927.80	7.5	11.4	1156	3664
AUG			91	53	72	6.95	27.11	78	927.85	6.8	7.5	531	4195
SEP			91	36	64	7.37	34.48	59	927.93	8.2	12.0	124	4319
OCT			86	24	55	5.54	40.02	57	927.94	6.4	8.5	-	-
NOV			52	15	34	1.50	41.52	-	927.80	-	-	-	-
DEC	12/10/18		50	11	31	1.69	43.21	-	927.71	-	-	-	-