

MEMO

TO: Town of Delavan Lake Committee
FROM: Delavan Lake Sanitary District
RE: DLSD Lake Management Activities for July
DATE: July 25, 2018

LAKE MONITORING RECORDS

July Precipitation - 2.11 inches
Number of Run-off events - 2
Precipitation Year-to-date - 20.16 inches
Ice On Date - December 26, 2017
Ice Off Date - March 24, 2018

July Secchi Disc Readings: Maximum - 11.4 ft.
Average - 7.5 ft.

LAKE LEVEL

DNR Summer Lake Elevation Expectations - 927.86 feet
Average Lake Elevation - 927.81 feet

LAKE MANAGEMENT PROGRAM

New harvester, new conveyor and new dump truck are finally in operation. This was just in time as DLSD's 2006 dump truck had a major engine failure and is in for some engine repairs.

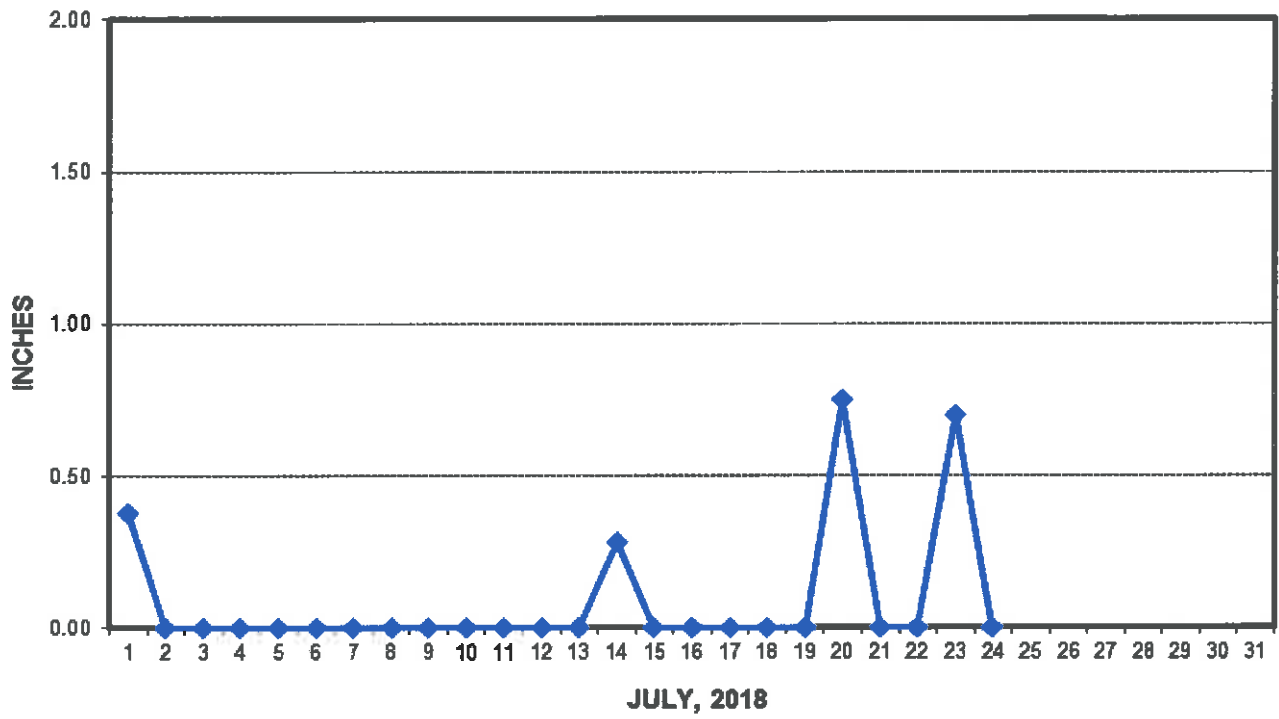
Staff is actively testing water, soils and running labs on sediment versus pellets, to get a better understanding of what is actually taking place while using pellets.

DLSD is looking to replace a 30 year old conveyor and 16 year old harvester in 2019. Grants have been applied for.

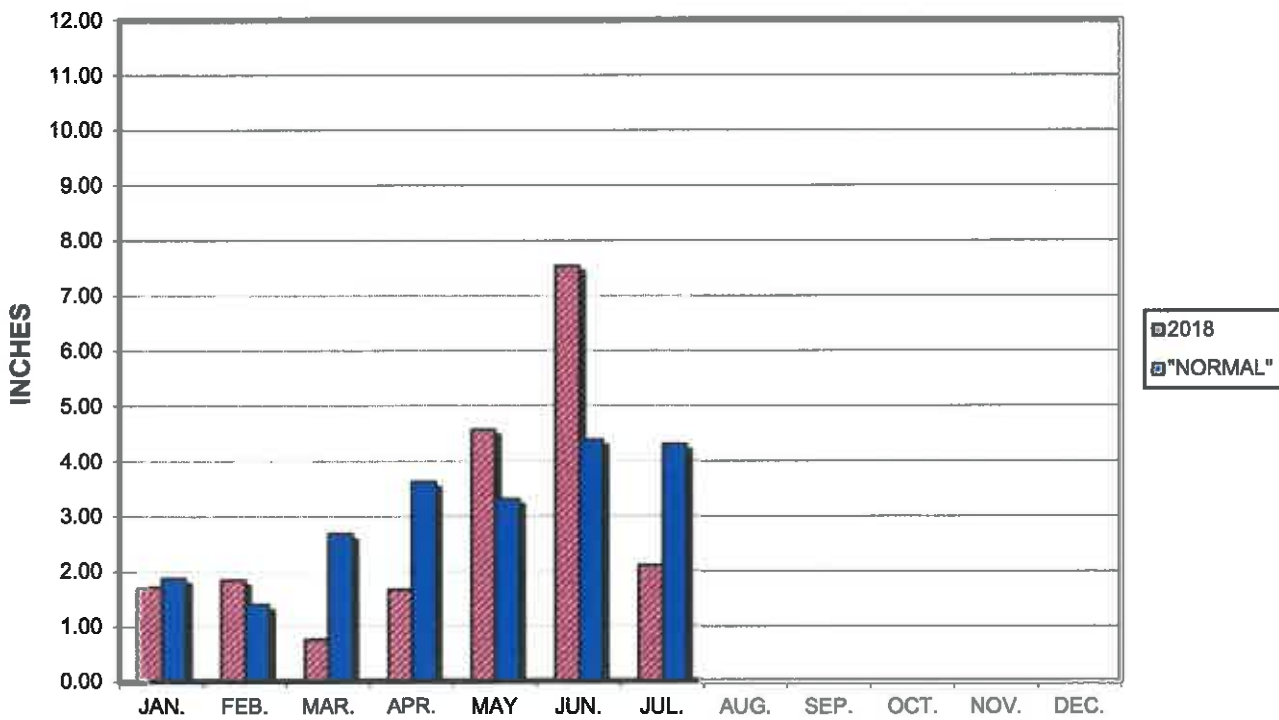
DLSD and the Township will be working on re-evaluating weed harvesting operations at Blue Gill Lane and Lift Station #10 at the request of the Fire Department. These are also fire lanes and are in need of being widened so both a fire truck and the conveyor can fit in those locations at the same time. DLSD understands the concerns of the Fire Department and is also working on other options to minimize the impact to these fire lanes.

Encl.: (3)

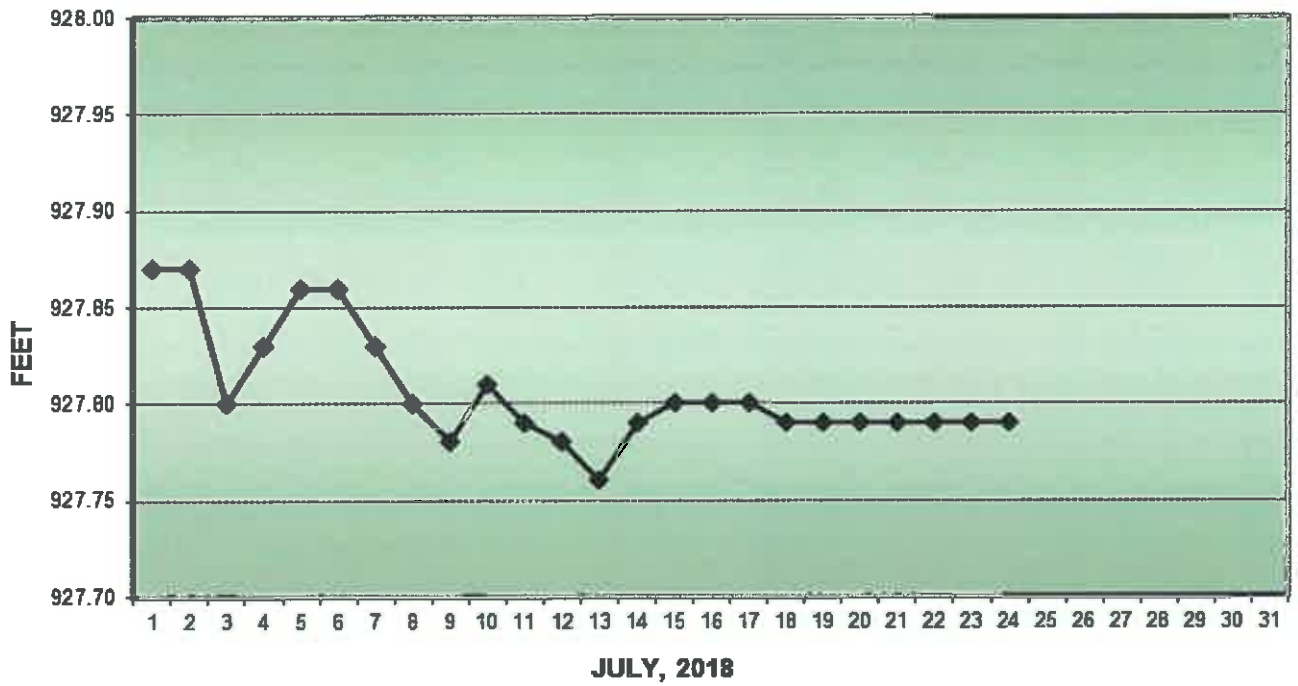
PRECIPITATION - DELAVAN LAKE, WI



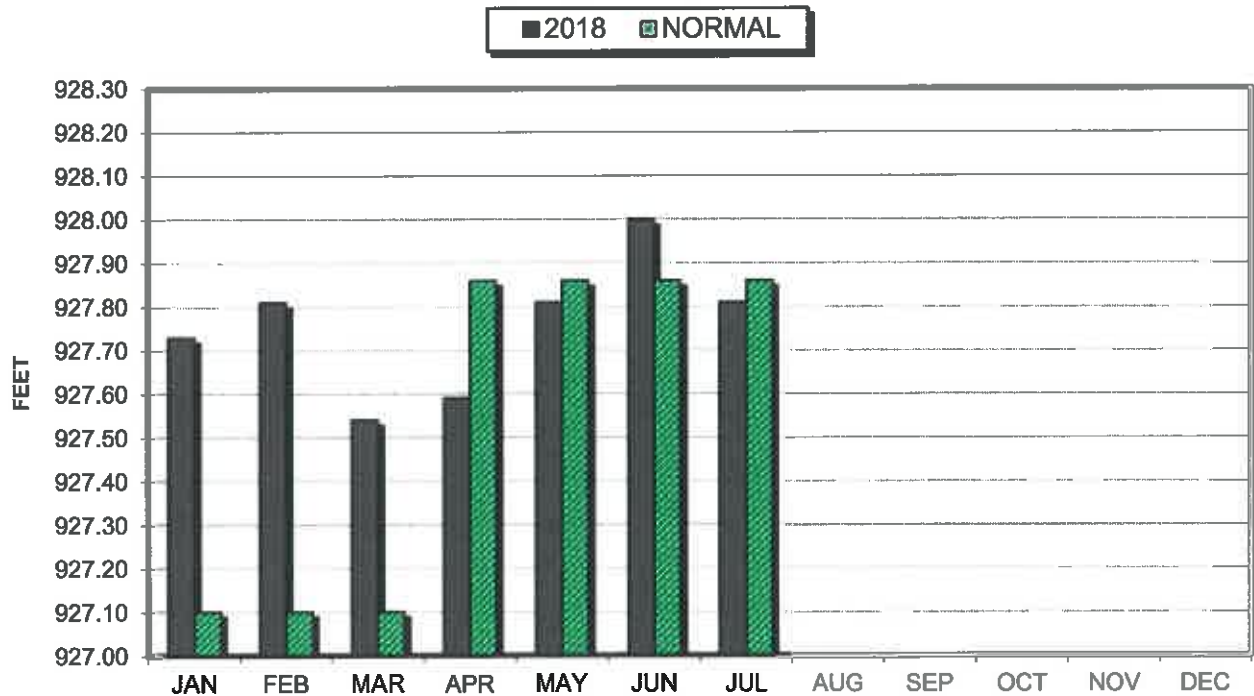
PRECIPITATION - DELAVAN LAKE, WI



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		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	-	-
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	-	-	-	-
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	-	-
MAY			96	39	68	4.56	10.52	64	927.81	24.0	30.0	275	275
JUN			93	47	70	7.53	18.05	70	928.00	7.5	11.0	749	1024
JUL			91	52	72	2.11	20.16	78	927.81	7.5	11.4	855	1879