

**DELAVAN LAKE SANITARY DISTRICT  
ADMINISTRATOR'S REPORT  
DECEMBER ACTIVITY 2017**

**ADMINISTRATION**

Brown's channel implementation received an extension to complete two more tasks requested by the DNR before compensation.

Crews have been busy tackling failed heaters and also working on equipment maintenance.

Lift Station #2 projects are starting up the first part of December and will halt thru the Holidays and get back into the swing of things in January.

Research on grants for the more versatile machine to skim algae blooms, floating weeds and even assist in minor maintenance dredging is under way.

Harvesters are beginning their breakdown for repairs and maintenance throughout the winter months.

A dump truck was ordered and is expected to be delivered in April in time to assist with weed harvesting operations. The goal is to continue mechanical plant removal and minimize chemical treatment to only as ordered by DNR. This should minimize the recycling of unwanted elements, such as phosphorus in the lake.

The Shores of Delavan Subdivision proposed sewer installation is in for review with staff and DLSD engineering.

Search is underway to replace our secretary receptionist who left to continue schooling full-time.

Staff continues working on new ways to maintain the aging sewer system and improve the life of the infrastructure for the next generation.

## **SEWER SYSTEM OPERATIONS**

### **Building Sewer Connections**

**New Connections for the Month - 1**  
**Reconnections for the Month - 0**  
**Disconnections for the Month - 1**  
**Total Number of Structures Connected to Date - 3,096**  
**Total ERU Count for the Month - 4,006**

### **Operation and Maintenance**

**Average December Daily Wastewater Flow to WalCoMet - 453,560 gallons**  
**Peak December Flow - 553,649 gallons**  
**Diggers Requests Marked for the Month - 23**  
**Emergency Call Outs - 3**

The following charts are attached: *Wastewater Flow comparison with Precipitation for December, 2017*  
*Average Daily Wastewater Flow comparison with Peak Flow*  
*Precipitation comparison with "normal"*  
*Wastewater Flow comparison with "normal"*  
*Environmental Data Summary*  
*Daily Lake Elevation for December, 2017*  
*Lake Elevation comparison with "normal"*

### **Lake Monitoring/Lake Level**

**Precipitation Total for the Month - .10 inches**  
**Below Normal - 2.05 inches**  
**Ice On Date - December 26, 2017**  
**Secchi Disc Reading Main Lake - 7' 5" feet on 11/16/17**

*See attached Lake Elevation Graph and Chart.*

### **Lake Information**

**DNR Lake Level Goal - 927.86 feet**  
**Average Lake Elevation - 927.64 feet**  
**Number of Dam Inspections - 31**

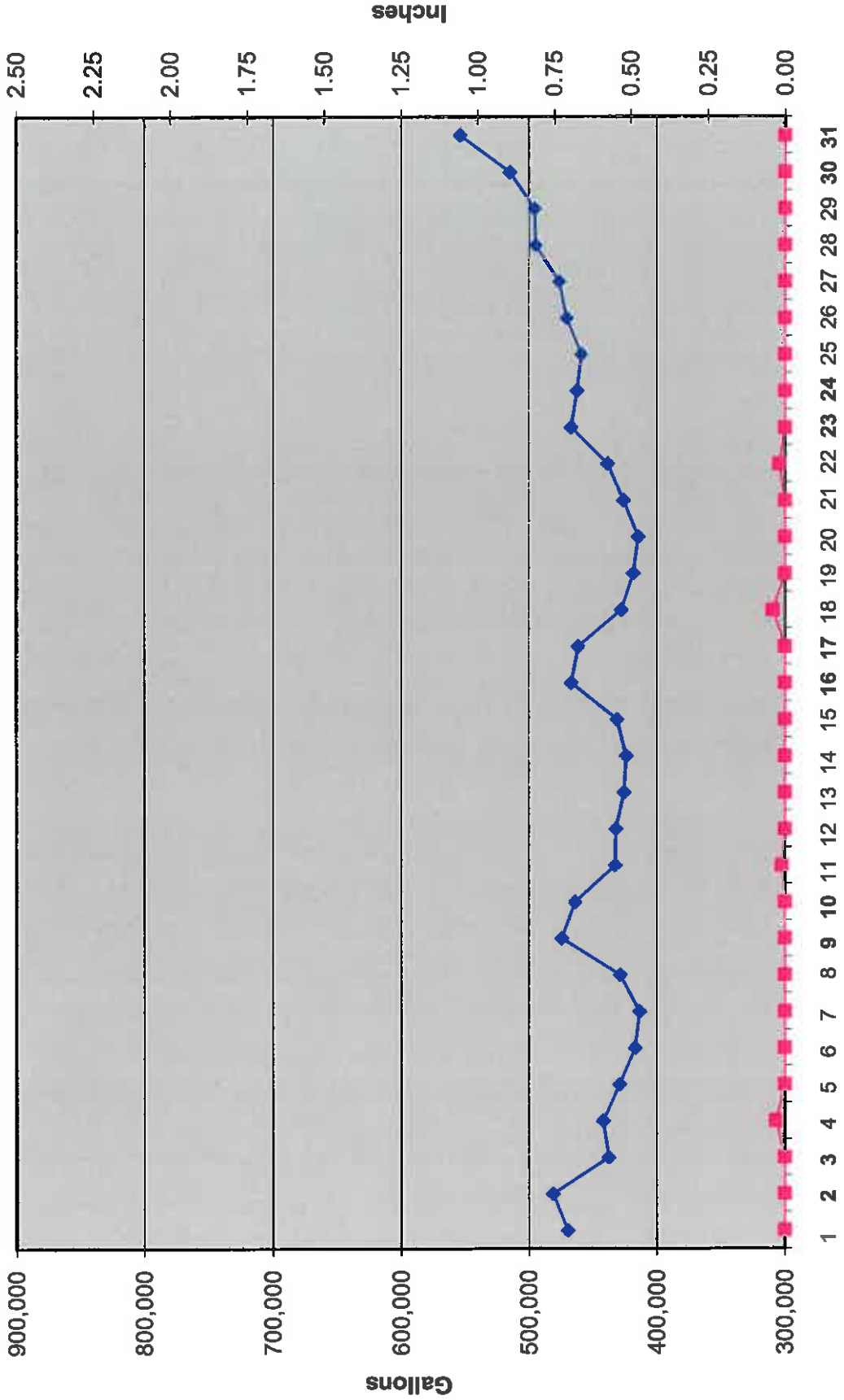
*See attached Gate Setting Chart.*

### **Lake Committee**

The next meeting of the Lake Committee is scheduled for 7:00 P.M. on Wednesday, February 7th, 2018 at the Town Hall.

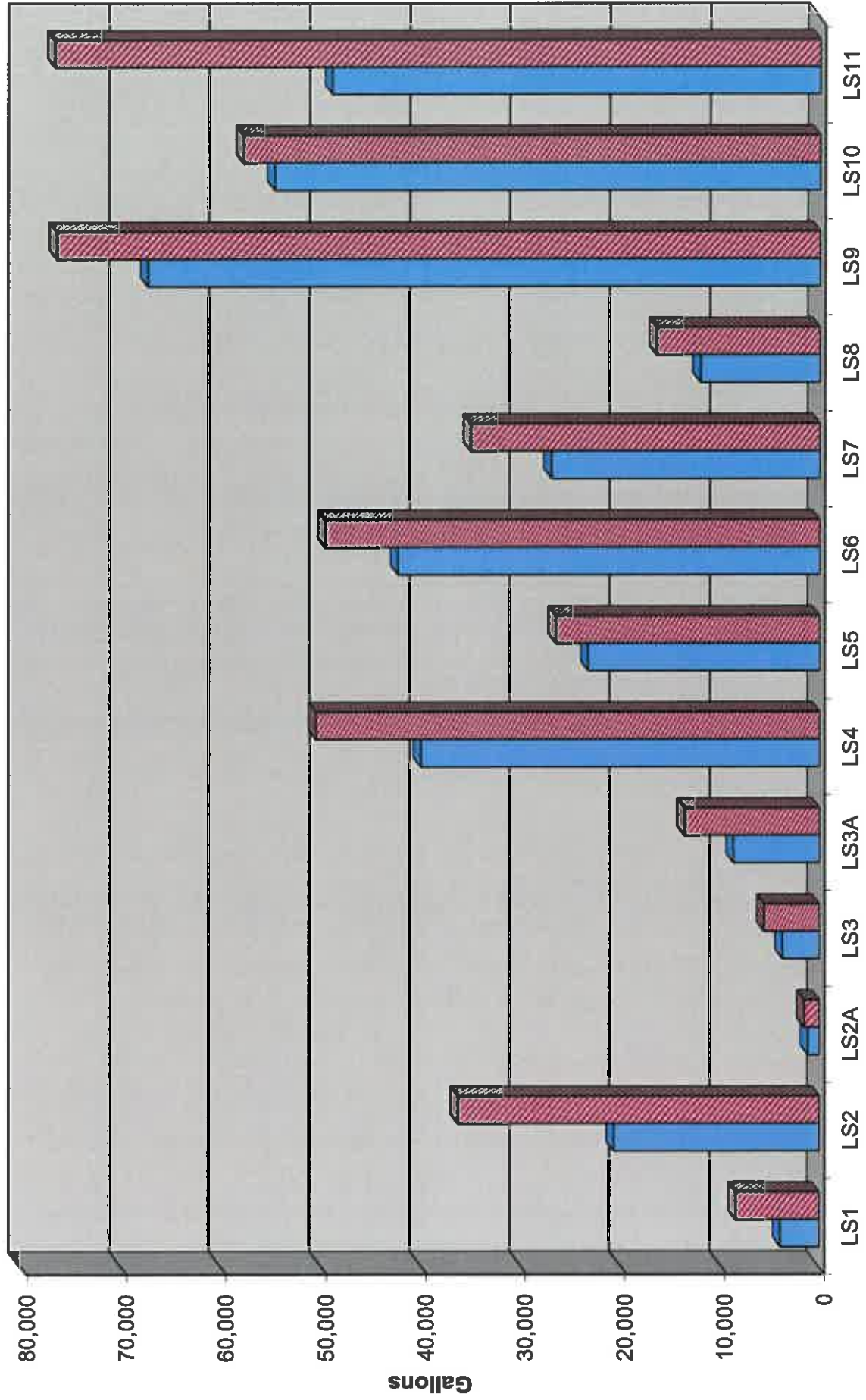
### **Attachments**

### Wastewater Flow/Precipitation - December, 2017

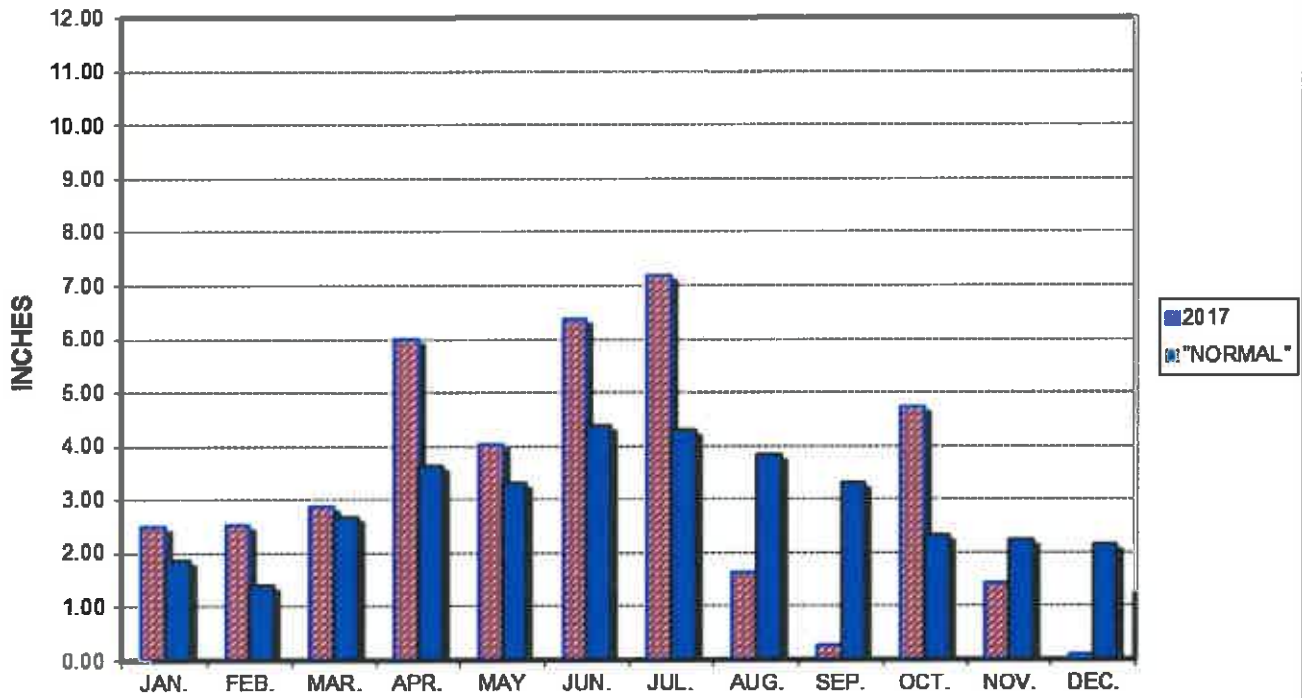


Average Daily Flow/Peak Flow by Area - December, 2017

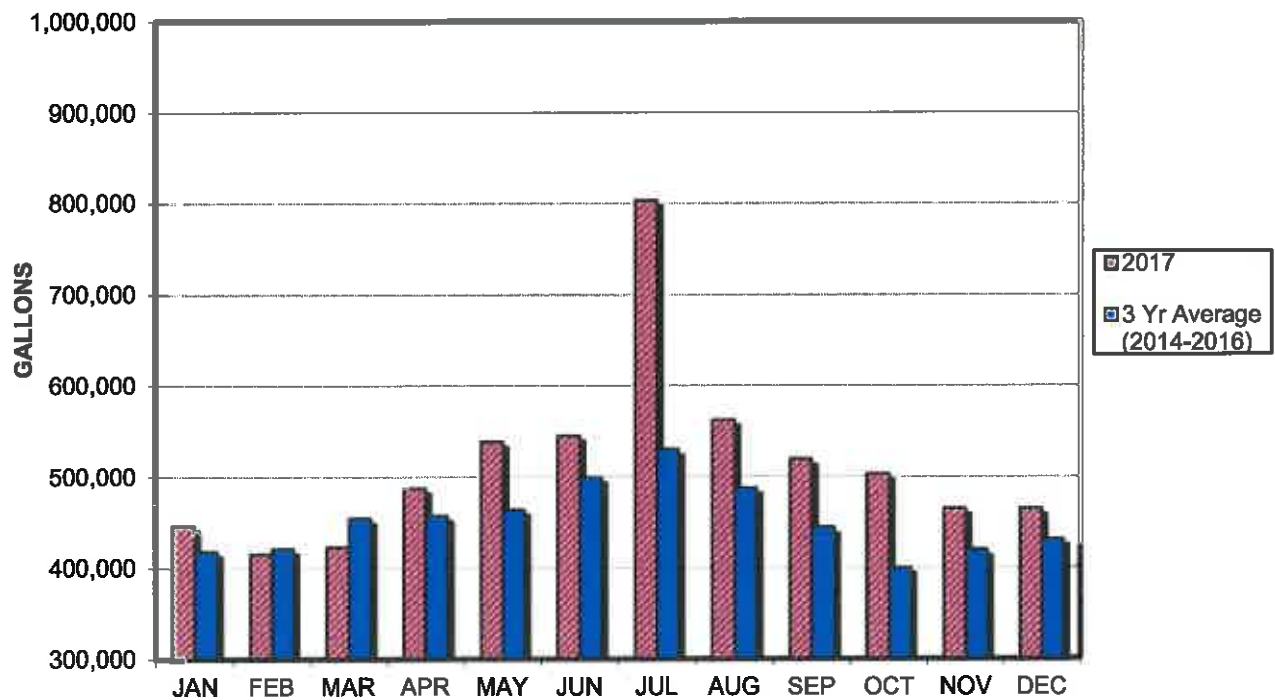
■ Average ■ Peak



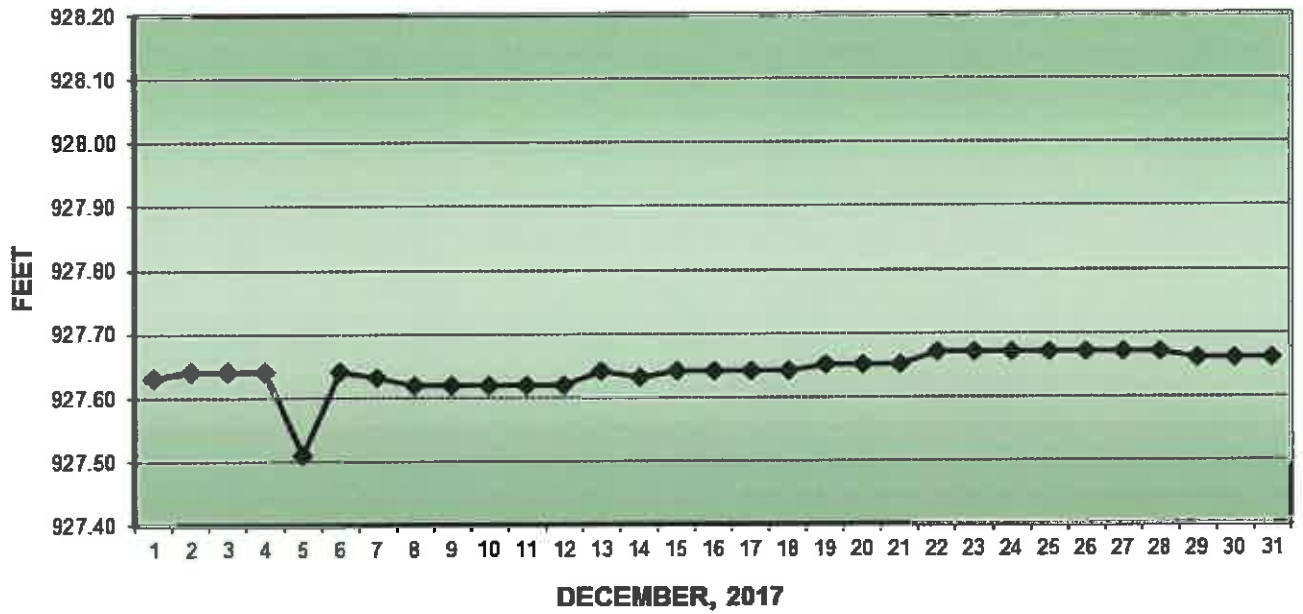
## PRECIPITATION - DELAVAN LAKE, WI



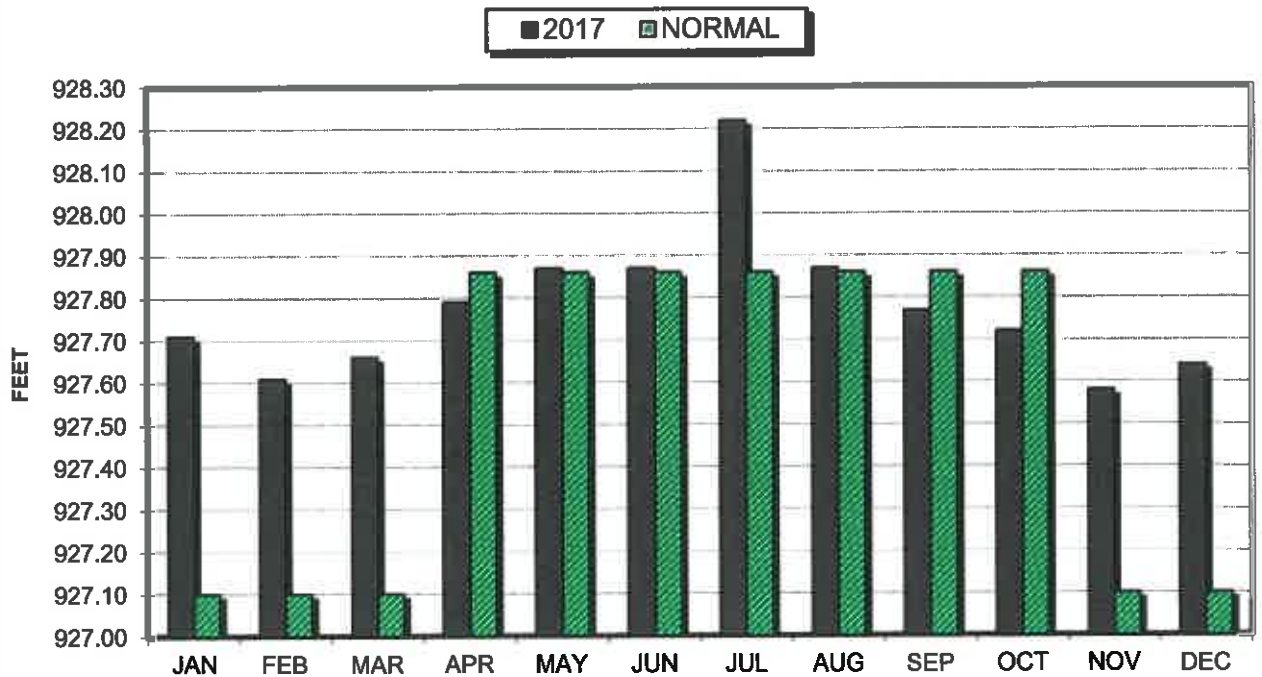
## AVERAGE WASTEWATER FLOWS



### 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
<b>2015</b>													
JAN	1/2/15		40	-10	15	0.26	0.26	-	927.71	-	-	-	-
FEB			39	-13	13	0.71	0.97	-	927.73	-	-	-	-
MAR			71	-14	28	0.90	1.87	-	927.76	-	-	-	-
APR	4/2/15		78	26	52	2.61	4.48	41	927.85	4.2	4.0	-	-
MAY			82	32	57	4.96	9.44	55	927.87	18.0	35.0	367	367
JUN			88	40	64	6.26	15.70	66	927.89	16.5	35.0	1417	1784
JUL			88	47	68	3.06	18.76	74	927.86	9.9	15.0	1493	3277
AUG			90	48	69	4.43	23.19	74	927.75	8.3	9.0	1058	4335
SEP			89	42	66	6.18	29.37	-	927.93	-	-	328	4663
OCT			79	28	54	1.62	30.99	57	927.74	9.7	13.0	228	4891
NOV			73	4	39	5.17	36.16	-	927.84	-	-	-	-
DEC			60	13	37	5.21	41.37	-	927.81	-	-	-	-
<b>2016</b>													
JAN	1/11/16		42	-6	18	0.99	0.99	-	927.73	-	-	-	-
FEB			59	0	29	0.63	1.62	-	927.82	-	-	-	-
MAR			68	1	34	4.10	5.72	42	927.74	18.7	23.0	-	-
APR	3/9/16		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	-	-	-	-
<b>2017</b>													
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	-	-	-	-