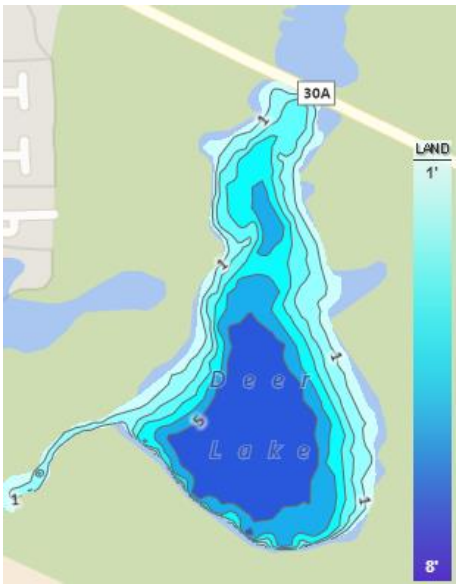
Deer Lake, Walton County



Lake Details

Outfall: present

Watershed area: 127 hectares

Lake surface area: 17 hectares

Average depth: 2.83 meters

Water Chemistry Data - 2017

Summary statistics include mean, maximum (Max), minimum (Min), median, and standard error (Std Error) calculated for total phosphorous (TP) (n = 12 samples), total nitrogen (TN) (n = 12 samples), total chlorophyll (CHL) (n = 12 samples), water transparency (Secchi Depth) (n = 12 samples), temperature (n = 12 samples), dissolved oxygen (n = 12 samples), pH (n = 12 samples), salinity (n = 12 samples), turbidity (n = 12 samples), color (n = 4 samples), and specific conductance (n = 4 samples) measurements.

2017 Summary Statistics

	Mean	Max	Min	Median	Std Error
TP (µg/L)	10	22	7	10	1
TN (µg/L)	412	699	217	385	42
CHL (µg/L)	3	9	1	4	1
Secchi Depth (m)	1	1	1	1	0
Temperature (C)	24	31	16	26	2
Dissolved Oxygen (mg/L)	7	8	6	7	0
pH	7	6	8	7	7
Salinity (ppt)	3	8	1	3	1
Turbidity (NTU)	1	6	1	1	1
Color (Pt-co Units)	105	231	63	95	39
Specific Conductance (µS/cm)	2890	8000	1640	2320	1490

Water Chemistry Data - 1998 through 2017

Summary statistics include mean, maximum (Max), minimum (Min), median, and standard error (Std Error) summary statistics calculated on an annual basis using monthly data for total phosphorous (TP), total nitrogen (TN), total chlorophyll (CHL), water transparency (Secchi Depth), temperature, dissolved oxygen, pH, salinity, turbidity, color, and specific conductance. Summary statistics represent Long-Term analyses among annual means from 1998 through 2017.

Long-Term Summary Statistics

	Mean	Max	Min	Median	Std Error
TP (µg/L)	11	13	8	11	0
TN (µg/L)	472	800	385	465	22
CHL (µg/L)	5	8	3	5	0
Secchi Depth (m)	1	1	1	1	0
Temperature (C)	23	25	20	23	0
Dissolved Oxygen (mg/L)	7	8	5	7	0
pH	7	5	8	7	6
Salinity (ppt)	1	11	0	1	1
Turbidity (NTU)	2	4	0	2	0
Color (Pt-co Units)	107	164	69	105	10
Specific Conductance (µS/cm)	3230	17400	396	4350	1610

Long-Term Trophic State Variable Trend Analyses

Monthly total phosphorous (µg/L), total nitrogen (µg/L), total chlorophyll (µg/L) and water transparency (m) from 1998 through 2017 for Deer Lake. These data show the intra-annual variance with trend line and associated 95% confidence level.

Kendall-Tau trend analysis results are shown for total phosphorus, total nitrogen, total chlorophyll, and water transparency on the top-left of each plot. Not significant indicates there was no significant trend measured. Positive indicates a significant, increasing trend was found over time. Negative indicates a significant, decreasing trend among years.