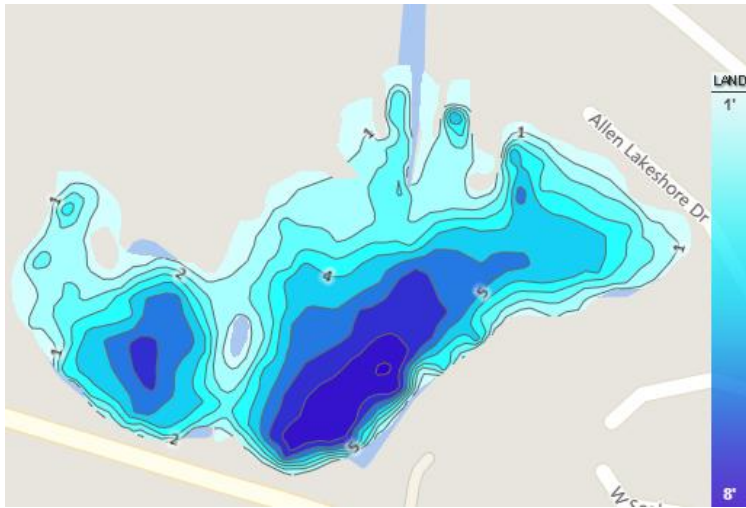


Allen Lake, Walton County



Lake Details

Outfall: absent

Watershed area: 71 hectares

Lake surface area: 8 hectares

Average depth: 1.28 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 = 11 samples), total nitrogen (TN) (n = 11 samples), total chlorophyll (CHL) (n = 11 samples), water transparency (Secchi Depth) (n = 11 samples), temperature (n = 11 samples), dissolved oxygen (n = 11 samples), pH (n = 11 samples), salinity (n = 11 samples), turbidity (n = 11 samples), color (n = 3 samples), and specific conductance (n = 3 samples) measurements.

2017 Summary Statistics

	Mean	Max	Min	Median	Std Error
TP (µg/L)	13	17	10	12	1
TN (µg/L)	543	675	426	537	27
CHL (µg/L)	4	10	1	4	1
Secchi Depth (m)	1	1	1	1	0
Temperature (C)	23	31	9	27	2
Dissolved Oxygen (mg/L)	7	10	6	8	0
pH	6	5	7	5	6
Salinity (ppt)	0	0	0	0	0
Turbidity (NTU)	1	1	1	1	0
Color (Pt-co Units)	127	163	99	127	19
Specific Conductance (µS/cm)	53	66	44	50	7

Water Chemistry Data - 2003 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.

Long-Term Summary Statistics

	Mean	Max	Min	Median	Std Error
TP (µg/L)	13	18	9	13	1
TN (µg/L)	755	1360	543	743	64
CHL (µg/L)	4	8	2	4	0
Secchi Depth (m)	1	1	0	1	0
Temperature (C)	22	25	20	22	0
Dissolved Oxygen (mg/L)	7	9	6	7	0
pH	5	4	7	5	5
Salinity (ppt)	0	0	0	0	0
Turbidity (NTU)	2	9	1	2	1
Color (Pt-co Units)	175	258	93	177	16
Specific Conductance (µS/cm)	107	275	53	106	20

Long-Term Trophic State Variable Trend Analyses

Monthly total phosphorous ($\mu\text{g/L}$), total nitrogen ($\mu\text{g/L}$), total chlorophyll ($\mu\text{g/L}$) and water transparency (m) from 2003 through 2017 for Allen 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.

