

Mandarin (Duval County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 30°10'16", Longitude 81°37'9"

Period of record: 2 sampling dates; August 27, 1996 to October 26, 1996

Lake Region (Griffith et al. 1997): Eastern Flatlands (75-10)

Geologic formation (Brooks 1981a):

The geology is dominated clastic and shell deposits of the Fort Thompson Group Formation

Physiographic region (Brooks 1981b):

The lake lies in the Mandarin Plain subdivision of the Northern Coastal Strip division of the Sea Island District

Supplemental water chemistry data

Data reported are means from 1 sampling date:

pH	7.7	Total alkalinity (mg/L as CaCO ₃)	38.0
Conductance (µS/cm @ 25 °C)	158	Color (Pt-Co units)	13
Chloride (mg/L)	14.8	Silicon (mg/L)	1.0
Sulfate (mg/L)	13.0	Calcium (mg/L)	15.0
Magnesium (mg/L)	2.6	Sodium (mg/L)	7.7
Potassium (mg/L)	2.1	Iron (mg/L)	0.1

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 2 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	14	18	22
Long-term total nitrogen concentrations (µg/L)	433	500	567
Long-term total chlorophyll concentrations (µg/L)	4.3	8.3	12.3
Long-term Secchi depth (ft)	5.7	6.5	7.3

2001 Florida LAKEWATCH Data

No samples collected in 2001