

## Seminole (Jackson County) Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 30°44'10", Longitude 84°52'40"

**Period of record:** 6 sampling dates; February 22, 1998 to May 3, 2000

**Lake Region** (Griffith et al. 1997): Dougherty/Marianna Plains (65-02)

**Geologic formation** (Brooks 1981a):

The geology is dominated by limestone consisting of skeletons of fossils in a silt to sand size matrix of the Ocala Limestone Formation

**Physiographic region** (Brooks 1981b):

The lake lies in the Grand Ridge subdivision of the Marianna Red Lands division of the Dougherty Karst District

### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 6 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	21	28	47
Long-term total nitrogen concentrations (µg/L)	530	622	777
Long-term total chlorophyll concentrations (µg/L)	4.3	9.0	16.7
Long-term Secchi depth (ft)	1.3	3.2	5.5

### 2001 Florida LAKEWATCH Data

No samples collected in 2001

## Silver (Jackson County)

### Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 30°34'40", Longitude 85°18'50"

**Period of record:** 33 sampling dates; March 15, 1998 to December 2, 2001

**Surface Area** (Shafer et al. 1986): 244 acres

**Lake Region** (Griffith et al. 1997): New Hope Ridge/Greenhead Slope (65-03)

**Geologic formation** (Brooks 1981a):

The geology is dominated by gravel, sand and clay of the Citronelle Formation

**Physiographic region** (Brooks 1981b):

The lake lies in the Compass Lake Highlands division of the Dougherty Karst District

#### Supplemental water chemistry data

Data reported are means from 1 sampling date:

pH	4.9	Total alkalinity (mg/L as CaCO <sub>3</sub> )	0.0
Conductance (µS/cm @ 25 °C)	20	Color (Pt-Co units)	2
Chloride (mg/L)	3.4	Silicon (mg/L)	0.0
Sulfate (mg/L)	2.7	Calcium (mg/L)	0.4
Magnesium (mg/L)	0.3	Sodium (mg/L)	1.6
Potassium (mg/L)	0.2	Iron (mg/L)	0.0

#### Periodic water chemistry data

Numbers reported below are the minimum, average, and maximum value for the 1 sampling date:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term color concentrations (Pt-Co units)	0	0	0

#### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 33 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	1	3	5
Long-term total nitrogen concentrations (µg/L)	23	59	153
Long-term total chlorophyll concentrations (µg/L)	0.0	0.9	2.7
Long-term Secchi depth (ft)	9.0	20.2	29.0

#### 2001 Florida LAKEWATCH Data

Numbers reported below are monthly averages calculated from 3 stations for total phosphorus (TP, µg/L), total nitrogen (TN, µg/L), chlorophyll (CHL, µg/L) and Secchi depth (SECCHI, ft) during 2001:

<u>Date</u>	<u>TP (µg/L)</u>	<u>TN (µg/L)</u>	<u>CHL (µg/L)</u>	<u>SECCHI (ft)</u>
Jan-28	3	57	1.0	12.0
May-05	2	80	0.0	24.0
Jun-24	3	23	1.0	27.0
Aug-25	2	27	0.7	29.0
Oct-21	3	23	2.0	17.0
Dec-02	2	57	1.0	13.0
2001 Average	3	44	0.9	20.3