

## Belle Aire (Flagler County) Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 29°33'45", Longitude 81°13'48"

**Period of record:** 41 sampling dates; March 15, 1995 to September 18, 2000

**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 Crescent Lake Basin subdivision of the Palatka Anomalies division of the Eastern Flatwoods District

### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 41 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations ( $\mu\text{g/L}$ )	15	30	51
Long-term total nitrogen concentrations ( $\mu\text{g/L}$ )	490	638	870
Long-term total chlorophyll concentrations ( $\mu\text{g/L}$ )	3.0	11.7	25.0
Long-term Secchi depth (ft)	1.0	3.9	6.5

### 2001 Florida LAKEWATCH Data

No samples collected in 2001

## Belle Terre (Flagler County) Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 29°36'16", Longitude 81°15'14"

**Period of record:** 82 sampling dates; March 21, 1995 to December 10, 2001

**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 Crescent Lake Basin subdivision of the Palatka Anomalies division of the Eastern Flatwoods District

### Periodic water chemistry data

Numbers reported below are the minimum, average, and maximum value for the 4 sampling dates:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term color concentrations (Pt-Co units)	35	55	92

### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 82 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	16	38	133
Long-term total nitrogen concentrations (µg/L)	380	658	1857
Long-term total chlorophyll concentrations (µg/L)	3.0	23.0	169.7
Long-term Secchi depth (ft)	1.0	3.4	5.5

### 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-19	23	640	6.0	4.0
Feb-15	23	483	5.0	4.0
Mar-26	33	600	10.3	3.5
Apr-27	32	647	12.7	3.5
May-22	47	803	11.0	2.5
Jun-19	69	1097	46.0	2.0
Jul-24	60	800	24.7	2.0
Aug-29	52	740	28.0	2.5
Sep-30	51	600	26.7	2.0
Oct-31	45	450	28.7	3.0
Nov-27	41	550	20.3	2.5
Dec-10	47	520	29.7	2.5
2001 Average	44	661	20.8	2.8

## Birchwood (Flagler County) Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 29°34'46", Longitude 81°14'20"

**Period of record:** 1 sampling date; May 29, 1995

**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 Crescent Lake Basin subdivision of the Palatka Anomalies division of the Eastern Flatwoods District

### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 1 month sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	42	42	42
Long-term total nitrogen concentrations (µg/L)	473	473	473
Long-term total chlorophyll concentrations (µg/L)	6.7	6.7	6.7
Long-term Secchi depth (ft)	5.2	5.2	5.2

### 2001 Florida LAKEWATCH Data

No samples collected in 2001

## Birchwood Basin (Flagler County) Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 29°34'46", Longitude 81°14'23"

**Period of record:** 2 sampling dates; March 7, 1995 to April 10, 1995

**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 Crescent Lake Basin subdivision of the Palatka Anomalies division of the Eastern Flatwoods District

### 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)	40	59	78
Long-term total nitrogen concentrations (µg/L)	517	568	620
Long-term total chlorophyll concentrations (µg/L)	7.0	8.8	10.5
Long-term Secchi depth (ft)	5.5	5.7	5.8

### 2001 Florida LAKEWATCH Data

No samples collected in 2001

## Bird of Paradise (Flagler County) Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 29°35'31", Longitude 81°14'48"

**Period of record:** 77 sampling dates; May 13, 1995 to December 10, 2001

**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 Crescent Lake Basin subdivision of the Palatka Anomalies division of the Eastern Flatwoods District

### Periodic water chemistry data

Numbers reported below are the minimum, average, and maximum value for the 4 sampling dates:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term color concentrations (Pt-Co units)	45	51	59

### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 77 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	13	29	71
Long-term total nitrogen concentrations (µg/L)	347	576	937
Long-term total chlorophyll concentrations (µg/L)	1.3	15.4	59.7
Long-term Secchi depth (ft)	2.0	3.8	6.0

### 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-19	23	567	7.3	5.0
Feb-15	22	533	7.0	4.5
Mar-26	23	583	6.0	4.0
Apr-27	37	937	28.7	2.5
May-22	42	827	9.7	3.0
Jun-19	53	937	30.0	2.5
Jul-24	68	923	39.3	2.5
Aug-29	49	823	33.3	2.5
Sep-30	52	720	40.3	2.0
Oct-31	43	633	25.3	2.5
Nov-27	33	567	20.7	3.5
Dec-10	36	500	25.3	3.0
2001 Average	40	713	22.8	3.1

## Birdway (Flagler County) Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 29°35'15", Longitude 81°14'57"

**Period of record:** 9 sampling dates; July 22, 1994 to March 21, 1995

**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 St Johns Wet Prairie division of the Eastern Flatwoods District

### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 9 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	14	22	36
Long-term total nitrogen concentrations (µg/L)	450	621	803
Long-term total chlorophyll concentrations (µg/L)	2.0	11.0	26.3
Long-term Secchi depth (ft)	2.2	3.3	5.3

### 2001 Florida LAKEWATCH Data

No samples collected in 2001

## Brandon (Flagler County) Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 29°26'42", Longitude 81°13'59"

**Period of record:** 55 sampling dates; March 29, 1995 to December 28, 1999

**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 Crescent Lake Basin subdivision of the Palatka Anomalies division of the Eastern Flatwoods District

### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 55 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	5	13	24
Long-term total nitrogen concentrations (µg/L)	277	392	623
Long-term total chlorophyll concentrations (µg/L)	1.0	3.9	7.3
Long-term Secchi depth (ft)	3.7	5.9	8.0

### 2001 Florida LAKEWATCH Data

No samples collected in 2001

## Disston (Flagler County) Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 29°17'2", Longitude 81°23'31"

**Period of record:** 112 sampling dates; February 14, 1992 to December 9, 2001

**Surface Area** (LAKEWATCH 1999): 2619 acres

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

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

The geology is dominated by dune sand and shell with silty sand, silt, and clay of the Princess Ann Formation

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

The lake lies in the Crescent Lake Basin subdivision of the Palatka Anomalies division of the Eastern Flatwoods District

### Supplemental water chemistry data

Data reported are means from 4 sampling dates:

pH	5.3	Total alkalinity (mg/L as CaCO <sub>3</sub> )	2.9
Conductance (µS/cm @ 25 °C)	59	Color (Pt-Co units)	360
Chloride (mg/L)	13.7	Silicon (mg/L)	3.3
Sulfate (mg/L)	4.0	Calcium (mg/L)	3.3
Magnesium (mg/L)	6.7	Sodium (mg/L)	6.5
Potassium (mg/L)	0.6	Iron (mg/L)	0.7

### Periodic water chemistry data

Numbers reported below are the minimum, average, and maximum value for the 4 sampling dates:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term color concentrations (Pt-Co units)	240	348	562

### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 112 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	16	26	41
Long-term total nitrogen concentrations (µg/L)	770	1079	1450
Long-term total chlorophyll concentrations (µg/L)	0.0	3.9	20.3
Long-term Secchi depth (ft)	0.8	1.3	2.1

### 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-14	25	1197	4.0	1.2
Feb-14	25	1153	6.3	1.2
Mar-14	23	1100	3.7	1.2
Apr-13	19	1113	11.3	1.3
May-12	20	1090	5.3	1.3
Jun-10	24	1103	3.0	1.3
Jul-08	24	1063	6.7	1.3
Aug-05	24	1073	5.3	1.7
Sep-08	30	1450	4.7	1.1
Oct-06	39	1420	1.0	1.0
Nov-10	36	1407	0.0	1.1
Dec-09	29	1217	1.0	0.8
2001 Average	27	1199	4.4	1.2

**Disston (Flagler County)  
Florida LAKEWATCH Aquatic Plant Summary**

Aquatic plant data collected on August 4, 1993

Percent area covered with aquatic vegetation (PAC, %)	6.0
Percent of lake's volume filled with vegetation (PVI, %)	0.9
Average emergent plant biomass (kg wet wt/m <sup>2</sup> )	4.6
Average floating-leaved plant biomass (kg wet wt/m <sup>2</sup> )	1.3
Average submersed plant biomass (kg wet wt/m <sup>2</sup> )	0.5
Average width of emergent and floating-leaved zone (ft)	109.6
Average lake depth (m)	2.5

Frequency that plant species occur in 10 evenly spaced transects around the lake.

<b><u>Common Name</u></b>	<b><u>Plant Species</u></b>	<b><u>Frequency (%)</u></b>
spatterdock	<i>Nuphar luteum</i>	100
maidencane	<i>Panicum hemitomom</i>	100
buttonbush	<i>Cephalanthus occidentalis</i>	80
bald cypress	<i>Taxodium distichum</i>	80
slender spikerush	<i>Eleocharis baldwinii</i>	60
baby-tears	<i>Micranthemum umbrosum</i>	60
wax myrtle	<i>Myrica cerifera</i>	60
water primrose	<i>Ludwigia octovalvis</i>	60
common salvinia	<i>Salvinia rotundifolia</i>	50
alligator-weed	<i>Alternanthera philoxeroides</i>	50
water-pennywort	<i>Hydrocotyle umbellata</i>	50
water hemlock	<i>Cicuta mexicana</i>	50
banana-lily	<i>Nymphoides aquatica</i>	40
pickerelweed	<i>Pontederia cordata</i>	40
giant bulrush	<i>Scirpus californicus</i>	40
floating water-hyacinth	<i>Eichhornia crassipes</i>	30
willow	<i>Salix spp.</i>	30
southern water-grass	<i>Hydrochloa caroliniensis</i>	30
duck-potato	<i>Sagittaria lancifolia</i>	20
cat-tail	<i>Typha spp.</i>	20
cone-spur bladderwort	<i>Utricularia gibba</i>	20
elephant-ear	<i>Colocasia esculenta</i>	20
common duckweed	<i>Lemna minor</i>	10
frog's-bit	<i>Limnobium spongia</i>	10
red ludwigia	<i>Ludwigia repens</i>	10
bacopa	<i>Bacopa monnieri</i>	10
tapegrass	<i>Vallisneria americana</i>	10
stonewort	<i>Nitella spp.</i>	10
spider orchid	<i>Habenaria spp.</i>	10

**Disston (Flagler County)**  
**Florida LAKEWATCH Aquatic Plant Summary**

Aquatic plant data collected on July 1, 1999

Percent area covered with aquatic vegetation (PAC, %)	12.0
Percent of lake's volume filled with vegetation (PVI, %)	3.4
Average emergent plant biomass (kg wet wt/m <sup>2</sup> )	2.2
Average floating-leaved plant biomass (kg wet wt/m <sup>2</sup> )	1.3
Average submersed plant biomass (kg wet wt/m <sup>2</sup> )	0.0
Average width of emergent and floating-leaved zone (ft)	77.5
Average lake depth (m)	2.7

Frequency that plant species occur in 10 evenly spaced transects around the lake.

<b><u>Common Name</u></b>	<b><u>Plant Species</u></b>	<b><u>Frequency (%)</u></b>
maidencane	<i>Panicum hemitomon</i>	90
spatterdock	<i>Nuphar luteum</i>	80
bald cypress	<i>Taxodium distichum</i>	80
giant bulrush	<i>Scirpus californicus</i>	50
water primrose	<i>Ludwigia octovalvis</i>	40
buttonbush	<i>Cephalanthus occidentalis</i>	40
water-lettuce	<i>Pistia stratiotes</i>	30
wax myrtle	<i>Myrica cerifera</i>	30
elderberry	<i>Sambucus canadensis</i>	30
lemon bacopa	<i>Bacopa caroliniana</i>	20
sedge spp.	<i>Cyperus spp.</i>	20
common salvinia	<i>Salvinia rotundifolia</i>	10
slender spikerush	<i>Eleocharis baldwinii</i>	10
baby-tears	<i>Micranthemum umbrosum</i>	10
water-pennywort	<i>Hydrocotyle umbellata</i>	10
St. John's wort	<i>Hypericum spp.</i>	10
red maple	<i>Acer rubrum</i>	10

Disston (Flagler County)  
Florida LAKEWATCH Bathymetric Map



Florida LAKEWATCH personnel created this map using differentially corrected global positioning equipment (GPS). Data were collected July 1, 1999. Map contours are in feet and were generated using kriging technique in Surfer® software package (Golden Software, Golden CO). The center of the lake is located at Latitude 29°17'2" and Longitude 81°23'31". On this date, the lake surface area was calculated at 2,619 acres (1,060 hectares). This is only an approximate bathymetric map and should not be used for navigation.

## Gore (Flagler County) Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 29°27'40", Longitude 81°13'7"

**Period of record:** 15 sampling dates; September 15, 1994 to February 15, 1996

**Surface Area** (Shafer et al. 1986): 85 acres

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

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

The geology is dominated by dune sand and shell with silty sand, silt, and clay of the Princess Ann Formation

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

The lake lies in the Crescent Lake Basin subdivision of the Palatka Anomalies division of the Eastern Flatwoods District

### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 15 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	8	12	17
Long-term total nitrogen concentrations (µg/L)	560	659	800
Long-term total chlorophyll concentrations (µg/L)	0.0	1.8	5.0
Long-term Secchi depth (ft)	2.0	2.4	3.2

### 2001 Florida LAKEWATCH Data

No samples collected in 2001

## Lakeside (Flagler County) Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 29°39'8", Longitude 81°12'26"

**Period of record:** 16 sampling dates; June 17, 1998 to September 26, 1999

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

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

The geology is dominated by high energy, bar shelly, and dune sand with loose to hard limestone of the Anastasia Formation

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

The lake lies in the St Augustine-Edgewater Ridge subdivision of the Central Atlantic Coastal Strip division of the Eastern Flatwoods District

### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 16 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	11	20	34
Long-term total nitrogen concentrations (µg/L)	470	678	930
Long-term total chlorophyll concentrations (µg/L)	1.0	4.9	12.0
Long-term Secchi depth (ft)	4.9	5.3	6.0

### 2001 Florida LAKEWATCH Data

No samples collected in 2001

## Parkview Stream (Flagler County)

### Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 29°33'2", Longitude 81°14'44"

**Period of record:** 81 sampling dates; March 18, 1995 to December 3, 2001

**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 Crescent Lake Basin subdivision of the Palatka Anomalies division of the Eastern Flatwoods District

#### Periodic water chemistry data

Numbers reported below are the minimum, average, and maximum value for the 4 sampling dates:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term color concentrations (Pt-Co units)	39	145	405

#### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 81 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	16	50	233
Long-term total nitrogen concentrations (µg/L)	517	915	1927
Long-term total chlorophyll concentrations (µg/L)	1.0	12.3	64.0
Long-term Secchi depth (ft)	0.2	2.3	5.5

#### 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-11	18	750	5.7	.
Feb-05	21	660	7.7	.
Mar-01	22	530	7.3	4.5
Apr-03	36	693	9.7	3.0
May-06	26	803	6.3	4.0
Jun-03	23	770	3.7	4.5
Jul-05	21	757	6.7	5.5
Aug-01	48	897	10.0	3.0
Sep-06	44	923	17.0	3.0
Oct-10	73	1753	23.3	1.0
Nov-04	65	1927	6.7	1.0
Dec-03	52	1587	4.7	1.0
2001 Average	37	1004	9.1	3.1

## Pine Grove (Flagler County) Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 29°30'31", Longitude 81°12'22"

**Period of record:** 7 sampling dates; April 7, 2000 to July 22, 2001

**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 Crescent Lake Basin subdivision of the Palatka Anomalies division of the Eastern Flatwoods District

### Periodic water chemistry data

Numbers reported below are the minimum, average, and maximum value for the 3 sampling dates:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term color concentrations (Pt-Co units)	30	39	53

### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 7 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	74	137	221
Long-term total nitrogen concentrations (µg/L)	637	768	880
Long-term total chlorophyll concentrations (µg/L)	3.7	22.2	67.3
Long-term Secchi depth (ft)	3.0	3.3	3.5

### 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-14	74	660	3.7	.
Feb-11	114	823	67.3	.
Apr-04	159	770	21.3	.
May-06	198	753	15.7	3.0
Jun-05	221	880	20.3	.
Jul-22	85	853	15.7	.
2001 Average	142	790	24.0	3.0

## Ribbon North (Flagler County) Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 29°33'33", Longitude 81°13'9"

**Period of record:** 99 sampling dates; September 16, 1993 to December 28, 2001

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

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

The geology is dominated by high energy, bar shelly, and dune sand with loose to hard limestone of the Anastasia Formation

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

The lake lies in the St Johns Wet Prairie division of the Eastern Flatwoods District

### Periodic water chemistry data

Numbers reported below are the minimum, average, and maximum value for the 5 sampling dates:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term color concentrations (Pt-Co units)	22	40	69

### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 99 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	10	17	33
Long-term total nitrogen concentrations (µg/L)	383	558	793
Long-term total chlorophyll concentrations (µg/L)	2.0	5.5	25.0
Long-term Secchi depth (ft)	4.0	6.4	9.0

### 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-27	15	637	6.3	.
Mar-03	16	597	2.7	.
Apr-01	14	543	2.7	.
May-09	12	443	2.0	.
May-25	13	587	2.3	.
Jun-30	13	513	2.3	.
Jul-28	14	547	3.0	8.4
Sep-17	24	670	4.0	4.8
Oct-10	31	703	14.0	5.1
Oct-30	16	743	4.5	7.4
Nov-29	23	643	4.0	6.5
Dec-28	23	647	6.7	7.4
2001 Average	18	606	4.5	6.6

## Rippling (Flagler County) Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 29°30'5", Longitude 81°14'24"

**Period of record:** 10 sampling dates; March 11, 1995 to March 14, 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 Crescent Lake Basin subdivision of the Palatka Anomalies division of the Eastern Flatwoods District

### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 10 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations ( $\mu\text{g/L}$ )	22	33	66
Long-term total nitrogen concentrations ( $\mu\text{g/L}$ )	700	866	1087
Long-term total chlorophyll concentrations ( $\mu\text{g/L}$ )	2.3	10.2	31.0
Long-term Secchi depth (ft)	1.5	1.8	2.0

### 2001 Florida LAKEWATCH Data

No samples collected in 2001

## Rodgers (Flagler County)

### Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 29°26'25", Longitude 81°13'50"

**Period of record:** 34 sampling dates; August 27, 1998 to October 25, 2001

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

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

The geology is dominated by dune sand and shell with silty sand, silt, and clay of the Princess Ann Formation

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

The lake lies in the Crescent Lake Basin subdivision of the Palatka Anomalies division of the Eastern Flatwoods District

#### Periodic water chemistry data

Numbers reported below are the minimum, average, and maximum value for the 3 sampling dates:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term color concentrations (Pt-Co units)	22	34	49

#### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 34 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	6	10	16
Long-term total nitrogen concentrations (µg/L)	423	539	827
Long-term total chlorophyll concentrations (µg/L)	1.0	3.6	15.0
Long-term Secchi depth (ft)	3.3	4.9	6.5

#### 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-15	8	503	1.0	5.0
Feb-15	8	523	1.0	5.3
Mar-15	8	510	1.0	5.8
Apr-15	7	467	1.0	5.5
May-25	6	547	1.3	4.9
Jun-25	8	510	1.0	.
Aug-24	7	507	1.0	.
Sep-25	16	703	9.3	4.4
Oct-25	15	583	5.0	5.0
2001 Average	9	539	2.4	5.1

## Wynnfield (Flagler County) Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 29°32'10", Longitude 81°15'12"

**Period of record:** 62 sampling dates; March 24, 1995 to May 24, 2000

**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 Crescent Lake Basin subdivision of the Palatka Anomalies division of the Eastern Flatwoods District

### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 62 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations ( $\mu\text{g/L}$ )	14	41	126
Long-term total nitrogen concentrations ( $\mu\text{g/L}$ )	400	676	1647
Long-term total chlorophyll concentrations ( $\mu\text{g/L}$ )	1.0	9.8	42.7
Long-term Secchi depth (ft)	1.0	3.1	5.0

### 2001 Florida LAKEWATCH Data

No samples collected in 2001