

## Miccosukee Sink (Jefferson County) Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 30°36'40", Longitude 84°0'17"

**Period of record:** 10 sampling dates; May 22, 1999 to March 31, 2000

**Lake Region** (Griffith et al. 1997): Tifton/Tallahassee Uplands (65-04)

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

The geology is dominated by phosphatic sand, silty sand, and clay of the Hawthorne Formation

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

The lake lies in the Tallahassee Red Hills subdivision of the State Line Hills division of the Ocala Uplift District

### Supplemental water chemistry data

Data reported are means from 2 sampling dates:

pH	5.8	Total alkalinity (mg/L as CaCO <sub>3</sub> )	3.1
Conductance (µS/cm @ 25 °C)	23	Color (Pt-Co units)	26
Chloride (mg/L)	6.5	Silicon (mg/L)	0.5
Sulfate (mg/L)	0.0	Calcium (mg/L)	1.8
Magnesium (mg/L)	0.6	Sodium (mg/L)	1.7
Potassium (mg/L)	0.3	Iron (mg/L)	0.5

### 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 (µg/L)	19	50	83
Long-term total nitrogen concentrations (µg/L)	467	1021	1647
Long-term total chlorophyll concentrations (µg/L)	6.7	32.0	91.3
Long-term Secchi depth (ft)	1.5	2.9	5.5

### 2001 Florida LAKEWATCH Data

No samples collected in 2001

## Wacissa-1 (Jefferson County)

### Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 30°20'24", Longitude 83°59'28"

**Period of record:** 50 sampling dates; October 18, 1993 to November 27, 2001

**Lake Region** (Griffith et al. 1997): Big Bend Karst (75-06)

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

The geology is dominated by Suwannee Limestone, bedded pure to slightly sandy limestone, cryptocrystalline hard dense limestone, often occurs in marly matrix, becomes interbedded downward with the Ocala Limestone, much secondary dolomitization

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

The station lies in the St Marks Coastal Strip subdivision of the Big Bend Karst division of the Ocala Uplift District

#### 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)	3	3	3

#### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 50 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	23	31	42
Long-term total nitrogen concentrations (µg/L)	120	370	670
Long-term total chlorophyll concentrations (µg/L)	0.0	1.1	5.0
Long-term Secchi depth (ft)	9.5	15.7	22.0

#### 2001 Florida LAKEWATCH Data

Numbers reported below are monthly averages calculated from 1 station 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-10	28	420	1.0	.
Jan-29	28	260	2.0	.
Mar-07	28	570	1.0	.
Apr-09	29	290	2.0	.
May-01	30	350	0.0	.
Jun-05	33	370	1.0	.
Jul-03	29	670	0.0	.
Aug-14	32	420	1.0	.
Sep-04	33	350	1.0	.
Oct-04	31	120	.	.
Oct-30	37	330	1.0	.
Nov-27	33	310	1.0	.
2001 Average	31	372	1.0	.

## Wacissa-2 (Jefferson County)

### Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 30°18'22", Longitude 83°58'56"

**Period of record:** 49 sampling dates; November 18, 1993 to November 27, 2001

**Lake Region** (Griffith et al. 1997): Big Bend Karst (75-06)

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

The geology is dominated by Suwannee Limestone, bedded pure to slightly sandy limestone, cryptocrystalline hard dense limestone, often occurs in marly matrix, becomes interbedded downward with the Ocala Limestone, much secondary dolomitization

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

The station lies in the St Marks Coastal Strip subdivision of the Big Bend Karst division of the Ocala Uplift District

#### 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)	10	10	10

#### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 49 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	18	36	66
Long-term total nitrogen concentrations (µg/L)	90	236	840
Long-term total chlorophyll concentrations (µg/L)	0.0	2.3	23.0
Long-term Secchi depth (ft)	2.0	2.0	2.0

#### 2001 Florida LAKEWATCH Data

Numbers reported below are monthly averages calculated from 1 station 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-10	37	230	2.0	.
Jan-29	66	700	23.0	.
Mar-07	36	200	2.0	.
Apr-09	38	150	4.0	.
May-01	32	150	2.0	.
Jun-05	56	280	5.0	.
Jul-03	31	300	5.0	.
Aug-14	32	340	4.0	.
Sep-04	50	840	2.0	.
Oct-04	30	90	.	.
Oct-30	34	170	2.0	.
Nov-27	45	140	2.0	.
2001 Average	41	299	4.8	.

## Wacissa-3 (Jefferson County)

### Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 30°12'11", Longitude 83°58'10"

**Period of record:** 50 sampling dates; October 18, 1993 to November 27, 2001

**Lake Region** (Griffith et al. 1997): Big Bend Karst (75-06)

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

The geology is dominated by Suwannee Limestone, bedded pure to slightly sandy limestone, cryptocrystalline hard dense limestone, often occurs in marly matrix, becomes interbedded downward with the Ocala Limestone, much secondary dolomitization

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

The station lies in the St Marks Coastal Strip subdivision of the Big Bend Karst division of the Ocala Uplift District

#### 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)	76	76	76

#### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 50 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	16	33	60
Long-term total nitrogen concentrations (µg/L)	80	250	660
Long-term total chlorophyll concentrations (µg/L)	1.0	1.7	5.0
Long-term Secchi depth (ft)	3.0	3.0	3.0

#### 2001 Florida LAKEWATCH Data

Numbers reported below are monthly averages calculated from 1 station 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-10	35	310	3.0	.
Jan-29	28	220	2.0	.
Mar-07	30	130	1.0	.
Apr-09	38	380	1.0	.
May-01	29	80	5.0	.
Jun-05	39	160	2.0	.
Jul-03	27	590	3.0	.
Aug-14	41	610	1.0	.
Sep-04	31	580	1.0	.
Oct-04	21	90	.	.
Oct-30	28	90	1.0	.
Nov-27	41	150	5.0	.
2001 Average	32	283	2.3	.

## Wooten (Jefferson County) Florida LAKEWATCH Water Chemistry Summary

**Location:** Latitude 30°23'58", Longitude 83°59'25"

**Period of record:** 72 sampling dates; September 15, 1989 to December 31, 1999

**Surface Area** (LAKEWATCH 1999): 29 acres

**Lake Region** (Griffith et al. 1997): Tifton/Tallahassee Uplands (65-04)

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

The geology is dominated by granular sand and clayey sand with some clay lenses of the Hawthorne Formation

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

The lake lies in the Tallahassee Red Hills subdivision of the State Line Hills division of the Ocala Uplift District

### Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 72 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	6	16	39
Long-term total nitrogen concentrations (µg/L)	240	453	1307
Long-term total chlorophyll concentrations (µg/L)	1.0	6.8	34.7
Long-term Secchi depth (ft)	3.0	7.5	14.0

### 2001 Florida LAKEWATCH Data

No samples collected in 2001

**Wooten (Jefferson County)**  
**Florida LAKEWATCH Aquatic Plant Summary**

Aquatic plant data collected on September 10, 1991

Percent area covered with aquatic vegetation (PAC, %)	0.0
Percent of lake's volume filled with vegetation (PVI, %)	0.0
Average emergent plant biomass (kg wet wt/m <sup>2</sup> )	4.8
Average floating-leaved plant biomass (kg wet wt/m <sup>2</sup> )	0.0
Average submersed plant biomass (kg wet wt/m <sup>2</sup> )	0.0
Average width of emergent and floating-leaved zone (ft)	21.2
Average lake depth (m)	3.6

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>
smartweed	<i>Polygonum hydropiperoides</i>	100
maidencane	<i>Panicum hemitomon</i>	100
buttonbush	<i>Cephalanthus occidentalis</i>	50
willow	<i>Salix spp.</i>	20
water-shield	<i>Brasenia schreberi</i>	10

**Wooten (Jefferson County)**  
**Florida LAKEWATCH Aquatic Plant Summary**

Aquatic plant data collected on June 30, 1999

Percent area covered with aquatic vegetation (PAC, %)	76.0
Percent of lake's volume filled with vegetation (PVI, %)	45.1
Average emergent plant biomass (kg wet wt/m <sup>2</sup> )	7.7
Average floating-leaved plant biomass (kg wet wt/m <sup>2</sup> )	8.3
Average submersed plant biomass (kg wet wt/m <sup>2</sup> )	2.4
Average width of emergent and floating-leaved zone (ft)	32.9
Average lake depth (m)	2.4

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>
water-shield	<i>Brasenia schreberi</i>	100
smartweed	<i>Polygonum hydropiperoides</i>	100
purple fanwort	<i>Cabomba pulcherrima</i>	100
maidencane	<i>Panicum hemitomon</i>	100
wax myrtle	<i>Myrica cerifera</i>	90
buttonbush	<i>Cephalanthus occidentalis</i>	80
slender spikerush	<i>Eleocharis baldwinii</i>	40
cone-spur bladderwort	<i>Utricularia gibba</i>	40
water-pennywort	<i>Hydrocotyle umbellata</i>	30
red maple	<i>Acer rubrum</i>	30
red ludwigia	<i>Ludwigia repens</i>	20
southern naiad	<i>Najas guadalupensis</i>	10
willow	<i>Salix spp.</i>	10

**Wooten (Jefferson County)  
Florida LAKEWATCH Bathymetric Map**



Florida LAKEWATCH personnel created this map using differentially corrected global positioning equipment (GPS). Data were collected June 30, 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 30°23'58" and Longitude 83°59'25". On this date, the lake surface area was calculated at 29 acres (12 hectares). This is only an approximate bathymetric map and should not be used for navigation.