

Banyan (Palm Beach County)

Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°39'24", Longitude 80°10'44"

Period of record: 6 sampling dates; August 4, 1996 to August 17, 1997

Lake Region (Griffith et al. 1997): Miami Ridge/Atlantic Coastal Strip (76-03)

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 Andytown Ridges and Sloughs subdivision of the Everglades division of the Gold Coast-Florida Bay District

Supplemental water chemistry data

Data reported are means from 1 sampling date:

pH	8.2	Total alkalinity (mg/L as CaCO ₃)	147.3
Conductance (µS/cm @ 25 °C)	413	Color (Pt-Co units)	10
Chloride (mg/L)	39.7	Silicon (mg/L)	6.3
Sulfate (mg/L)	9.0	Calcium (mg/L)	57.7
Magnesium (mg/L)	2.4	Sodium (mg/L)	25.0
Potassium (mg/L)	1.7	Iron (mg/L)	0.0

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)	7	9	11
Long-term total nitrogen concentrations (µg/L)	413	442	470
Long-term total chlorophyll concentrations (µg/L)	3.0	5.0	6.0
Long-term Secchi depth (ft)	7.2	9.6	13.5

2001 Florida LAKEWATCH Data

No samples collected in 2001

Charleston East (Palm Beach County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°34'13", Longitude 80°9'11"

Period of record: 15 sampling dates; February 1, 1997 to April 24, 1999

Lake Region (Griffith et al. 1997): Miami Ridge/Atlantic Coastal Strip (76-03)

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 Green Acres Sand Prairie subdivision of the Southern Atlantic Coastal Strip division of the Gold Coast-Florida Bay District

Supplemental water chemistry data

Data reported are means from 1 sampling date:

pH	8.3	Total alkalinity (mg/L as CaCO ₃)	118.7
Conductance (µS/cm @ 25 °C)	315	Color (Pt-Co units)	29
Chloride (mg/L)	17.5	Silicon (mg/L)	1.7
Sulfate (mg/L)	14.0	Calcium (mg/L)	41.0
Magnesium (mg/L)	3.8	Sodium (mg/L)	9.4
Potassium (mg/L)	7.1	Iron (mg/L)	0.0

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)	23	43	91
Long-term total nitrogen concentrations (µg/L)	440	600	940
Long-term total chlorophyll concentrations (µg/L)	5.0	19.7	74.7
Long-term Secchi depth (ft)	3.0	5.3	7.8

2001 Florida LAKEWATCH Data

No samples collected in 2001

Charleston Middle (Palm Beach County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°34'13", Longitude 80°9'18"

Period of record: 9 sampling dates; February 1, 1997 to May 3, 1998

Lake Region (Griffith et al. 1997): Miami Ridge/Atlantic Coastal Strip (76-03)

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 Green Acres Sand Prairie subdivision of the Southern Atlantic Coastal Strip division of the Gold Coast-Florida Bay District

Supplemental water chemistry data

Data reported are means from 1 sampling date:

pH	8.4	Total alkalinity (mg/L as CaCO ₃)	118.0
Conductance (µS/cm @ 25 °C)	317	Color (Pt-Co units)	29
Chloride (mg/L)	17.2	Silicon (mg/L)	1.4
Sulfate (mg/L)	14.0	Calcium (mg/L)	39.0
Magnesium (mg/L)	3.8	Sodium (mg/L)	9.5
Potassium (mg/L)	6.9	Iron (mg/L)	0.0

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)	22	41	56
Long-term total nitrogen concentrations (µg/L)	477	654	853
Long-term total chlorophyll concentrations (µg/L)	5.7	20.6	35.3
Long-term Secchi depth (ft)	3.3	5.6	8.1

2001 Florida LAKEWATCH Data

No samples collected in 2001

Charleston West (Palm Beach County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°34'5", Longitude 80°9'15"

Period of record: 11 sampling dates; June 30, 1997 to July 1, 1998

Lake Region (Griffith et al. 1997): Miami Ridge/Atlantic Coastal Strip (76-03)

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 Green Acres Sand Prairie subdivision of the Southern Atlantic Coastal Strip division of the Gold Coast-Florida Bay District

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 11 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations ($\mu\text{g/L}$)	26	41	53
Long-term total nitrogen concentrations ($\mu\text{g/L}$)	543	685	850
Long-term total chlorophyll concentrations ($\mu\text{g/L}$)	9.0	16.2	30.3
Long-term Secchi depth (ft)	4.0	4.8	6.8

2001 Florida LAKEWATCH Data

No samples collected in 2001

Loxahatchee River-10 (Palm Beach County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°56'51", Longitude 80°4'39"

Period of record: 3 sampling dates; July 12, 2001 to November 13, 2001

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 Sebastian-St Lucie Flats 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)	2	8	17
Long-term specific conductance (mmhos)	44	49	52

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 3 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	9	21	30
Long-term total nitrogen concentrations (µg/L)	190	220	240
Long-term total chlorophyll concentrations (µg/L)	1.0	3.3	6.0
Long-term Secchi depth (ft)	2.1	4.5	8.3

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>
Jul-12	9	230	1.0	8.3
Sep-20	30	190	6.0	2.1
Nov-13	24	240	3.0	3.0
2001 Average	21	220	3.3	4.5

Loxahatchee River-62 (Palm Beach County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°58'36", Longitude 80°7'56"

Period of record: 3 sampling dates; July 11, 2001 to November 29, 2001

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 Sebastian-St Lucie Flats 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)	56	66	76
Long-term specific conductance (mmhos)	1	6	8

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 3 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	45	58	74
Long-term total nitrogen concentrations (µg/L)	580	767	890
Long-term total chlorophyll concentrations (µg/L)	4.0	5.3	7.0
Long-term Secchi depth (ft)	3.0	4.3	5.3

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>
Jul-11	55	890	7.0	4.7
Sep-12	74	830	5.0	3.0
Nov-29	45	580	4.0	5.3
2001 Average	58	767	5.3	4.3

Loxahatchee River-69 (Palm Beach County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°56'14", Longitude 80°10'35"

Period of record: 3 sampling dates; July 11, 2001 to November 29, 2001

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 Sebastian-St Lucie Flats 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)	65	66	68
Long-term specific conductance (mmhos)	<1	<1	<1

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 3 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	28	39	59
Long-term total nitrogen concentrations (µg/L)	710	830	1050
Long-term total chlorophyll concentrations (µg/L)	7.0	9.0	11.0
Long-term Secchi depth (ft)	1.7	2.5	3.3

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>
Jul-11	30	1050	11.0	3.3
Sep-12	59	710	.	1.7
Nov-29	28	730	7.0	.
2001 Average	39	830	9.0	2.5

Loxahatchee River-72 (Palm Beach County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°56'36", Longitude 80°7'18"

Period of record: 3 sampling dates; July 19, 2001 to November 8, 2001

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 Sebastian-St Lucie Flats 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)	36	55	73
Long-term specific conductance (mmhos)	6	15	31

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 3 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	36	40	46
Long-term total nitrogen concentrations (µg/L)	430	553	670
Long-term total chlorophyll concentrations (µg/L)	3.0	12.3	27.0
Long-term Secchi depth (ft)	3.0	3.4	3.8

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>
Jul-19	46	560	7.0	3.0
Sep-06	39	430	27.0	3.8
Nov-08	36	670	3.0	.
2001 Average	40	553	12.3	3.4

Osborne (Palm Beach County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°35'38", Longitude 81°4'38"

Period of record: 6 sampling dates; November 17, 1993 to November 23, 2001

Surface Area (Shafer et al. 1986): 356 acres

Lake Region (Griffith et al. 1997): Miami Ridge/Atlantic Coastal Strip (76-03)

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 Green Acres Sand Prairie subdivision of the Southern Atlantic Coastal Strip division of the Gold Coast-Florida Bay District

Supplemental water chemistry data

Data reported are means from 3 sampling dates:

pH	8.2	Total alkalinity (mg/L as CaCO ₃)	203.8
Conductance (µS/cm @ 25 °C)	477	Color (Pt-Co units)	60
Chloride (mg/L)	58.4	Silicon (mg/L)	3.9
Sulfate (mg/L)	37.1	Calcium (mg/L)	70.2
Magnesium (mg/L)	14.8	Sodium (mg/L)	39.2
Potassium (mg/L)	4.9	Iron (mg/L)	0.1

Periodic water chemistry data

Numbers reported below are the minimum, average, and maximum value for the 2 sampling dates:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term color concentrations (Pt-Co units)	35	38	41

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)	70	77	92
Long-term total nitrogen concentrations (µg/L)	950	982	1043
Long-term total chlorophyll concentrations (µg/L)	31.3	41.6	53.3
Long-term Secchi depth (ft)	2.6	3.5	4.3

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>
Jul-11	70	950	38.7	4.2
Aug-12	77	957	47.3	3.3
Oct-07	76	1043	53.3	3.3
Nov-23	78	963	31.3	4.3
2001 Average	75	978	42.7	3.8

Osborne (Palm Beach County)
Florida LAKEWATCH Aquatic Bird Summary

Period of record: 1 sampling date: October 7, 2001 to October 7, 2001

Surface area (Shafer et al. 1986): 356 acres / 144 hectares

Numbers reported below are the average numbers of each species seen using the sampling method of **Boat** for 1 sampling event in 2001.

<u>Common Name</u>	<u>Mean Count</u>
Anhinga	42.0
Belted Kingfisher	5.0
Blue Jay	1.0
Boat-Tailed Grackle	82.0
Brown Pelican	1.0
Cattle Egret	7.0
Common Moorhen	88.0
Double-Crested Cormorant	1.0
Ducks	74.0
Great Blue Heron	5.0
Great Egret	2.0
Great White Heron	8.0
Green-Backed Heron	2.0
Limpkin	8.0
Mixed Vultures	1.0
Northern Mockingbird	4.0
Osprey	6.0
Reddish Egret	1.0
Snowy Egret	2.0
Tricolored Heron	14.0
White Ibis	50.0

Osborne Canal East (Palm Beach County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°34'29", Longitude 80°4'35"

Period of record: 2 sampling dates; October 24, 2001 to November 19, 2001

Lake Region (Griffith et al. 1997): Miami Ridge/Atlantic Coastal Strip (76-03)

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 Green Acres Sand Prairie subdivision of the Southern Atlantic Coastal Strip division of the Gold Coast-Florida Bay 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)	114	120	126
Long-term total nitrogen concentrations (µg/L)	550	575	600
Long-term total chlorophyll concentrations (µg/L)	2.5	11.6	20.7
Long-term Secchi depth (ft)	.	.	.

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>
Oct-24	114	550	2.5	.
Nov-19	126	600	20.7	.
2001 Average	120	575	11.6	.

Osborne Canal Middle (Palm Beach County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°34'30", Longitude 80°4'38"

Period of record: 2 sampling dates; October 24, 2001 to November 19, 2001

Lake Region (Griffith et al. 1997): Miami Ridge/Atlantic Coastal Strip (76-03)

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 Green Acres Sand Prairie subdivision of the Southern Atlantic Coastal Strip division of the Gold Coast-Florida Bay 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)	121	164	206
Long-term total nitrogen concentrations (µg/L)	697	992	1287
Long-term total chlorophyll concentrations (µg/L)	49.0	63.3	77.7
Long-term Secchi depth (ft)	.	.	.

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>
Oct-24	206	1287	77.7	.
Nov-19	121	697	49.0	.
2001 Average	164	992	63.3	.

Osborne Canal West (Palm Beach County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°34'29", Longitude 80°4'42"

Period of record: 2 sampling dates; October 24, 2001 to November 19, 2001

Lake Region (Griffith et al. 1997): Miami Ridge/Atlantic Coastal Strip (76-03)

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 Green Acres Sand Prairie subdivision of the Southern Atlantic Coastal Strip division of the Gold Coast-Florida Bay 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)	141	157	173
Long-term total nitrogen concentrations (µg/L)	843	1020	1197
Long-term total chlorophyll concentrations (µg/L)	19.7	28.7	37.7
Long-term Secchi depth (ft)	.	.	.

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>
Oct-24	141	1197	19.7	.
Nov-19	173	843	37.7	.
2001 Average	157	1020	28.7	.

Quiet Waters (Palm Beach County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°39'53", Longitude 80°10'40"

Period of record: 3 sampling dates; October 6, 2001 to December 31, 2001

Lake Region (Griffith et al. 1997): Miami Ridge/Atlantic Coastal Strip (76-03)

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 Green Acres Sand Prairie subdivision of the Southern Atlantic Coastal Strip division of the Gold Coast-Florida Bay District

Supplemental water chemistry data

Data reported are means from 1 sampling date:

pH	7.7	Total alkalinity (mg/L as CaCO ₃)	107.0
Conductance (µS/cm @ 25 °C)	318	Color (Pt-Co units)	12
Chloride (mg/L)	28.0		

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)	11	11	11

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 3 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	6	11	19
Long-term total nitrogen concentrations (µg/L)	410	446	497
Long-term total chlorophyll concentrations (µg/L)	2.3	2.3	2.3
Long-term Secchi depth (ft)	14.7	15.3	16.0

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>
Oct-06	6	497	2.3	14.7
Nov-10	19	430	.	16.0
Dec-31	7	410	.	15.3
2001 Average	11	446	2.3	15.3

Santee (Palm Beach County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°34'5", Longitude 80°10'1"

Period of record: 1 sampling date; September 19, 1998

Lake Region (Griffith et al. 1997): Miami Ridge/Atlantic Coastal Strip (76-03)

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 Green Acres Sand Prairie subdivision of the Southern Atlantic Coastal Strip division of the Gold Coast-Florida Bay 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)	57	57	57
Long-term total nitrogen concentrations (µg/L)	870	870	870
Long-term total chlorophyll concentrations (µg/L)	45.0	45.0	45.0
Long-term Secchi depth (ft)	.	.	.

2001 Florida LAKEWATCH Data

No samples collected in 2001

Silver (Palm Beach County)

Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°30'7", Longitude 80°5'6"

Period of record: 20 sampling dates; January 17, 1997 to April 27, 1999

Lake Region (Griffith et al. 1997): Miami Ridge/Atlantic Coastal Strip (76-03)

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 Andytown Ridges and Sloughs subdivision of the Everglades division of the Gold Coast-Florida Bay District

Supplemental water chemistry data

Data reported are means from 1 sampling date:

pH	8.2	Total alkalinity (mg/L as CaCO ₃)	123.0
Conductance (µS/cm @ 25 °C)	353	Color (Pt-Co units)	27
Chloride (mg/L)	26.7	Silicon (mg/L)	3.8
Sulfate (mg/L)	15.8	Calcium (mg/L)	53.0
Magnesium (mg/L)	2.1	Sodium (mg/L)	14.0
Potassium (mg/L)	2.1	Iron (mg/L)	0.0

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 20 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	12	26	42
Long-term total nitrogen concentrations (µg/L)	550	683	970
Long-term total chlorophyll concentrations (µg/L)	2.7	13.8	49.3
Long-term Secchi depth (ft)	4.1	7.7	11.8

2001 Florida LAKEWATCH Data

No samples collected in 2001

Westwood (Palm Beach County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°40'39", Longitude 80°12'2"

Period of record: 16 sampling dates; August 1, 1998 to July 14, 2001

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

Geologic formation (Brooks 1981a):

The geology is dominated by calcareous shelly sand with diverse extinct tropical marine fauna, may contain multiple vary hard sandy cap rocks of the Caloosahatchee Formation

Physiographic region (Brooks 1981b):

The lake lies in the Andytown Ridges and Sloughs subdivision of the Everglades division of the Gold Coast-Florida Bay 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)	14	14	14

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)	13	18	23
Long-term total nitrogen concentrations (µg/L)	503	589	753
Long-term total chlorophyll concentrations (µg/L)	6.0	9.3	15.7
Long-term Secchi depth (ft)	2.9	4.1	5.7

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>
Mar-11	21	753	6.7	4.7
Jul-14	23	577	15.7	3.0
2001 Average	22	665	11.2	3.8

Worth (Palm Beach County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°45'0", Longitude 80°2'60"

Period of record: 9 sampling dates; December 11, 1993 to February 25, 1995

Lake Region (Griffith et al. 1997): Miami Ridge/Atlantic Coastal Strip (76-03)

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 Green Acres Sand Prairie subdivision of the Southern Atlantic Coastal Strip division of the Gold Coast-Florida Bay 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)	22	48	116
Long-term total nitrogen concentrations (µg/L)	303	519	803
Long-term total chlorophyll concentrations (µg/L)	2.0	5.2	14.3
Long-term Secchi depth (ft)	3.8	6.6	8.4

2001 Florida LAKEWATCH Data

No samples collected in 2001