

Bonnet Slough (Broward County)

Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°8'6", Longitude 80°6'16"

Period of record: 3 sampling dates; February 20, 2001 to April 17, 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 Pompano-Fort Lauderdale Gap 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)	184.0
Conductance (µS/cm @ 25 °C)	684	Color (Pt-Co units)	39
Chloride (mg/L)	90.0		

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)	21	21	21

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)	56	74	101
Long-term total nitrogen concentrations (µg/L)	950	1010	1077
Long-term total chlorophyll concentrations (µg/L)	11.0	47.8	102.7
Long-term Secchi depth (ft)	1.5	2.2	3.4

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>
Feb-20	101	1077	102.7	1.5
Mar-13	65	1003	29.7	1.8
Apr-17	56	950	11.0	3.4
2001 Average	74	1010	47.8	2.2

Cliff (Broward County)

Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°6'6", Longitude 80°7'14"

Period of record: 19 sampling dates; June 9, 2000 to November 28, 2001

Surface Area (Shafer et al. 1986): 2 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 Pompano-Fort Lauderdale Gap 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)	172.0
Conductance (µS/cm @ 25 °C)	634	Color (Pt-Co units)	28
Chloride (mg/L)	90.0		

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)	17	22	26

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 19 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	24	33	51
Long-term total nitrogen concentrations (µg/L)	330	564	693
Long-term total chlorophyll concentrations (µg/L)	1.0	6.8	12.7
Long-term Secchi depth (ft)	4.7	6.8	10.0

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-02	35	510	1.0	10.0
Feb-01	29	330	5.3	9.3
Mar-03	33	543	9.7	6.0
Apr-01	32	597	7.7	5.3
Apr-30	30	540	10.0	4.7
May-28	27	660	7.7	5.7
Jul-01	27	540	7.0	6.3
Jul-28	28	480	6.7	7.0
Aug-23	26	490	7.3	6.0
Oct-01	38	610	4.0	9.7
Nov-01	24	490	3.0	8.3
Nov-28	26	533	3.0	7.3
2001 Average	30	527	6.0	7.1

Crossbow (Broward County)

Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°1'54", Longitude 80°20'56"

Period of record: 3 sampling dates; April 27, 2000 to July 7, 2000

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

Geologic formation (Brooks 1981a):

The geology is dominated by shelly Chione sand with multiple very hard sandy islands, cap rocks and laminated caliche crusts

Physiographic region (Brooks 1981b):

The lake lies in the Saw Grass Plain 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	8.9	Total alkalinity (mg/L as CaCO ₃)	89.0
Conductance (µS/cm @ 25 °C)	240	Color (Pt-Co units)	13
Chloride (mg/L)	17.5		

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)	7	9	12
Long-term total nitrogen concentrations (µg/L)	427	439	457
Long-term total chlorophyll concentrations (µg/L)	2.0	3.3	5.0
Long-term Secchi depth (ft)	8.0	9.7	11.7

2001 Florida LAKEWATCH Data

No samples collected in 2001

Delevoe (Broward County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°7'31", Longitude 80°10'30"

Period of record: 26 sampling dates; October 27, 1999 to December 5, 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 Pompano-Fort Lauderdale Gap 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	8.6	Total alkalinity (mg/L as CaCO ₃)	62.0
Conductance (µS/cm @ 25 °C)	215	Color (Pt-Co units)	8
Chloride (mg/L)	21.0		

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)	7	9	11

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 26 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	12	51	232
Long-term total nitrogen concentrations (µg/L)	250	520	1567
Long-term total chlorophyll concentrations (µg/L)	2.0	13.9	112.7
Long-term Secchi depth (ft)	4.0	8.2	14.2

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	85	583	12.0	7.5
Feb-21	70	540	6.0	8.0
Mar-20	71	597	15.7	6.3
Apr-20	32	760	15.0	5.5
May-17	28	477	8.0	6.7
Jun-19	15	357	4.3	11.3
Jul-17	16	363	3.3	14.2
Aug-08	13	333	3.0	13.5
Sep-19	16	250	3.3	10.2
Oct-30	45	303	7.0	7.5
Dec-05	46	300	6.0	7.5
2001 Average	40	442	7.6	8.9

Delevoe (Broward County)
Florida LAKEWATCH Largemouth Bass Mercury Summary

The following table lists mercury concentrations found in largemouth bass collected from Delevoe (Broward County). These data were collected in cooperation with Florida Fish and Wildlife Conservation Commission (FFWCC) to evaluate mercury concentrations in largemouth bass for water bodies that have several years of water chemistry data. These data can be used to estimate concentrations in the largemouth bass collected on an individual date and not necessarily all fish in the water body. It is important to remember results could differ over the course of one year or several years based on varying environmental factors.

June 19, 2001

Lake	County	Total Length (mmTL)	Total Weight (g)	Sex*	Age	Mercury Concentration (ppm)
Delevoe	Broward	305	370	M	3	0.50
Delevoe	Broward	318	394	M	2	0.25
Delevoe	Broward	351	592	M	2	0.27
Delevoe	Broward	359	637	F	2	0.36
Delevoe	Broward	364	612	M	3	0.32
Delevoe	Broward	338	585	M	2	0.28
Delevoe	Broward	373	642	F	2	0.29
Delevoe	Broward	361	688	F	2	0.23
Delevoe	Broward	400	952	F	3	0.51
Delevoe	Broward	413	981	F	2	0.31
Delevoe	Broward	449	1224	F	3	0.39
Delevoe	Broward	478	1702	F	5	0.55

The Florida Department of Health (FDOH) has established guidelines for three consumptive use advisories that are issued by FDOH. If the average mercury concentration of harvested fish is below 0.5 ppm, then an *Unrestricted Consumption of Fish Advisory* is issued and there is no limit set to the amount of fish that you should eat in a given amount of time. If the average mercury concentration is between 0.5 ppm to 1.5 ppm, then a *Limited Consumption of Fish Advisory* is issued. A *Limited Consumption of Fish Advisory* means that fish "should not be eaten more than once a week by adults. If you are pregnant, a nursing mother, a woman who intends to have children, or a child under 15 years old, you should not eat those fish more than once a month (One portion equals 8 ounces or one-half pound of fish)". If the average mercury concentration is above 1.5 ppm, then a *No Consumption of Fish Advisory* is issued. A *No Consumption of Fish Advisory* means that no fish should be eaten from the lake sampled.

This data was provided to the FDOH by the FFWCC. To find out if an advisory was issued on this water body, please contact either:

Florida Fish and Wildlife Conservation Commission
 Ted Lange
 601 West Woodward Avenue
 Eustis, FL 32726
 (352) 742-6438
tlange@mail.state.fl.us

Bureau of Environmental Epidemiology
 Dr. Joe Sekerke
 4052 Bald Cypress Way, Bin A08
 Tallahassee, FL 32399-1712
 850-245-4248
joe.sekerke@doh.state.fl.us

* M represents male, F represents female, U represents unidentified; a dot "." represents data not available.

Desoto (Broward County)

Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 25°58'41", Longitude 80°10'23"

Period of record: 9 sampling dates; February 19, 2001 to November 20, 2001

Surface Area (Shafer et al. 1986): 63 acres

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

Geologic formation (Brooks 1981a):

The geology is dominated by oolite, bioclastic and quartz sand of the Miami Formation

Physiographic region (Brooks 1981b):

The lake lies in the Saw Grass Plain 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 3 sampling dates:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term color concentrations (Pt-Co units)	5	7	8

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)	6	7	8
Long-term total nitrogen concentrations (µg/L)	413	462	507
Long-term total chlorophyll concentrations (µg/L)	1.7	2.1	3.0
Long-term Secchi depth (ft)	13.0	14.0	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>
Feb-19	8	497	3.0	13.0
Mar-18	7	507	2.0	.
Apr-16	8	473	2.0	.
May-18	8	507	2.0	.
Jun-16	7	413	2.0	13.0
Aug-15	6	433	2.0	16.0
Sep-13	6	447	2.0	.
Oct-23	7	430	2.0	.
Nov-20	7	453	1.7	.
2001 Average	7	462	2.1	14.0

East (Broward County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°10'47", Longitude 80°7'28"

Period of record: 1 sampling date; February 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 Pompano-Fort Lauderdale Gap 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)	40	40	40
Long-term total nitrogen concentrations (µg/L)	375	375	375
Long-term total chlorophyll concentrations (µg/L)	8.5	8.5	8.5
Long-term Secchi depth (ft)	.	.	.

2001 Florida LAKEWATCH Data

Numbers reported below are monthly averages calculated from 2 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>
Feb-19	40	375	8.5	.
2001 Average	40	375	8.5	.

Estancia (Broward County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°0'5", Longitude 80°24'11"

Period of record: 18 sampling dates; April 28, 2000 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 by shelly Chione sand with multiple very hard sandy islands, cap rocks and laminated caliche crusts

Physiographic region (Brooks 1981b):

The lake lies in the Saw Grass Plain 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	8.3	Total alkalinity (mg/L as CaCO ₃)	181.0
Conductance (µS/cm @ 25 °C)	523	Color (Pt-Co units)	35
Chloride (mg/L)	53.0		

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)	25	27	29

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 18 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	11	16	23
Long-term total nitrogen concentrations (µg/L)	453	881	1143
Long-term total chlorophyll concentrations (µg/L)	2.0	6.1	13.7
Long-term Secchi depth (ft)	6.5	8.0	14.0

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-20	11	1143	2.0	8.3
Mar-04	11	1040	7.0	8.0
Mar-24	15	860	9.0	6.5
May-12	11	773	3.0	7.8
Jun-24	16	807	10.7	8.7
Jul-29	17	640	6.3	7.0
Aug-09	22	930	13.7	14.0
Sep-22	23	903	8.3	8.0
Oct-13	16	777	4.3	8.0
Nov-13	14	453	3.0	8.0
Dec-31	11	813	2.7	8.0
2001 Average	15	831	6.4	8.4

Flamingo (Broward County)

Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°2'57", Longitude 80°18'16"

Period of record: 14 sampling dates; December 27, 1999 to July 29, 2001

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

Geologic formation (Brooks 1981a):

The geology is dominated by shelly Chione sand with multiple very hard sandy islands, cap rocks and laminated caliche crusts

Physiographic region (Brooks 1981b):

The lake lies in the Saw Grass Plain 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	8.1	Total alkalinity (mg/L as CaCO ₃)	127.0
Conductance (µS/cm @ 25 °C)	394	Color (Pt-Co units)	16
Chloride (mg/L)	45.5		

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)	7	7	7

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 14 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	6	9	17
Long-term total nitrogen concentrations (µg/L)	330	552	740
Long-term total chlorophyll concentrations (µg/L)	1.0	2.8	4.0
Long-term Secchi depth (ft)	7.7	12.4	15.3

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>
Feb-24	6	677	3.0	7.7
Mar-25	7	697	3.0	13.3
May-06	10	447	3.0	12.3
Jul-29	7	330	1.0	14.0
2001 Average	8	538	2.5	11.8

Flamingo Gardens Phase II East (Broward County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°3'5", Longitude 80°18'5"

Period of record: 8 sampling dates; June 8, 2000 to March 12, 2001

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

Geologic formation (Brooks 1981a):

The geology is dominated by shelly Chione sand with multiple very hard sandy islands, cap rocks and laminated caliche crusts

Physiographic region (Brooks 1981b):

The lake lies in the Saw Grass Plain 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	9.1	Total alkalinity (mg/L as CaCO ₃)	64.0
Conductance (µS/cm @ 25 °C)	171	Color (Pt-Co units)	16
Chloride (mg/L)	15.5		

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 8 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	14	21	44
Long-term total nitrogen concentrations (µg/L)	333	403	500
Long-term total chlorophyll concentrations (µg/L)	3.0	8.5	12.7
Long-term Secchi depth (ft)	4.8	7.7	11.2

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>
Feb-03	18	380	7.7	5.3
Mar-12	14	340	3.0	11.2
2001 Average	16	360	5.3	8.3

Melva (Broward County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°8'51", Longitude 80°7'16"

Period of record: 1 sampling date; October 7, 1997

Surface Area (Shafer et al. 1986): 15 acres

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 Pompano-Fort Lauderdale Gap 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)	110.0
Conductance (µS/cm @ 25 °C)	263	Color (Pt-Co units)	11
Chloride (mg/L)	13.5		

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)	31	31	31
Long-term total nitrogen concentrations (µg/L)	883	883	883
Long-term total chlorophyll concentrations (µg/L)	9.7	9.7	9.7
Long-term Secchi depth (ft)	6.4	6.4	6.4

2001 Florida LAKEWATCH Data

No samples collected in 2001

Riley (Broward County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°6'16", Longitude 80°21'12"

Period of record: 3 sampling dates; June 8, 2000 to August 11, 2000

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

Geologic formation (Brooks 1981a):

The geology is dominated by shelly Chione sand with multiple very hard sandy islands, cap rocks and laminated caliche crusts

Physiographic region (Brooks 1981b):

The lake lies in the Saw Grass Plain 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	8.4	Total alkalinity (mg/L as CaCO ₃)	174.0
Conductance (µS/cm @ 25 °C)	463	Color (Pt-Co units)	23
Chloride (mg/L)	46.0		

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)	13	15	18
Long-term total nitrogen concentrations (µg/L)	633	678	763
Long-term total chlorophyll concentrations (µg/L)	4.7	5.6	6.3
Long-term Secchi depth (ft)	5.0	5.5	6.3

2001 Florida LAKEWATCH Data

No samples collected in 2001

Silver 3 (Broward County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 25°59'5", Longitude 80°22'14"

Period of record: 4 sampling dates; April 28, 2000 to August 7, 2000

Surface Area (Shafer et al. 1986): 10 acres

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

Geologic formation (Brooks 1981a):

The geology is dominated by shelly Chione sand with multiple very hard sandy islands, cap rocks and laminated caliche crusts

Physiographic region (Brooks 1981b):

The lake lies in the Saw Grass Plain 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)	132.0
Conductance (µS/cm @ 25 °C)	465	Color (Pt-Co units)	19
Chloride (mg/L)	60.0		

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 4 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	6	11	18
Long-term total nitrogen concentrations (µg/L)	677	743	783
Long-term total chlorophyll concentrations (µg/L)	1.0	2.8	6.3
Long-term Secchi depth (ft)	11.3	14.5	16.0

2001 Florida LAKEWATCH Data

No samples collected in 2001

Sterling (Broward County) Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°2'55", Longitude 80°15'29"

Period of record: 12 sampling dates; October 18, 1996 to December 20, 1997

Surface Area (Shafer et al. 1986): 10 acres

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

Geologic formation (Brooks 1981a):

The geology is dominated by shelly Chione sand with multiple very hard sandy islands, cap rocks and laminated caliche crusts

Physiographic region (Brooks 1981b):

The lake lies in the Saw Grass Plain 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	8.3	Total alkalinity (mg/L as CaCO ₃)	110.7
Conductance (µS/cm @ 25 °C)	373	Color (Pt-Co units)	13
Chloride (mg/L)	43.3	Silicon (mg/L)	4.1
Sulfate (mg/L)	10.7	Calcium (mg/L)	38.0
Magnesium (mg/L)	4.2	Sodium (mg/L)	26.0
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 12 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	3	5	8
Long-term total nitrogen concentrations (µg/L)	430	560	800
Long-term total chlorophyll concentrations (µg/L)	1.0	1.5	2.0
Long-term Secchi depth (ft)	11.2	15.6	19.7

2001 Florida LAKEWATCH Data

No samples collected in 2001

Tyrano (Broward County)

Florida LAKEWATCH Water Chemistry Summary

Location: Latitude 26°5'47", Longitude 80°13'21"

Period of record: 18 sampling dates; June 22, 2000 to December 30, 2001

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

Geologic formation (Brooks 1981a):

The geology is dominated by shelly Chione sand with multiple very hard sandy islands, cap rocks and laminated caliche crusts

Physiographic region (Brooks 1981b):

The lake lies in the Saw Grass Plain 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	8.5	Total alkalinity (mg/L as CaCO ₃)	121.0
Conductance (µS/cm @ 25 °C)	328	Color (Pt-Co units)	15
Chloride (mg/L)	28.0		

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)	10	11	12

Long-term Florida LAKEWATCH Data

Numbers reported below are the minimum, average and maximum value for the 18 months sampled:

	<u>Minimum</u>	<u>Average</u>	<u>Maximum</u>
Long-term total phosphorus concentrations (µg/L)	10	17	25
Long-term total nitrogen concentrations (µg/L)	390	578	890
Long-term total chlorophyll concentrations (µg/L)	2.3	6.8	17.7
Long-term Secchi depth (ft)	5.3	9.2	13.3

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>
Jan-15	16	823	4.0	13.3
Feb-25	19	720	6.3	7.8
Mar-17	16	610	5.0	7.8
Apr-15	21	470	3.3	7.2
May-19	14	543	2.3	10.0
Jun-17	10	410	3.0	10.2
Jul-16	11	390	3.0	12.5
Aug-22	12	420	4.0	12.8
Sep-27	17	493	9.0	10.0
Oct-19	17	513	16.3	9.2
Nov-25	19	517	10.7	6.8
Dec-30	24	573	9.3	8.7
2001 Average	16	540	6.4	9.7