LAKEWATCH Report for Blues Creek-1 in Alachua County Watershed Region: North Central Using Data Downloaded 12/9/22

Introduction for River/Streams

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data geometric means and ranges and the final part are the trend plots for nutrients, chlorophyll and Secchi depth. Plots were only made for systems with five or more years of data.



Figure 1. Map showing nutrient thresholds areas for streams set forth by FDEP.

Table 1. The nutrient thresholds for streams are listed in table below along with the map showing zones.

Nutrient Watershed	Total Phosphorus Nutrient	Total Nitrogen Nutrient Threshold ¹
Region	Threshold ¹	-
Panhandle West	60 μg/L	670 μg/L
Panhandle East	180 μg/L	1030 μg/L
North Central	300 μ/L	1870 μg/L
Peninsular	120 μg/L	1540 μg/L
West Central	490 μg/L	1650 μg/L
South Florida	No numeric nutrient threshold. The	No numeric nutrient threshold. The
	narrative criterion in paragraph 62-	narrative criterion in paragraph 62-
	302.530(47)(b), F.A.C., applies.	302.530(47)(b), F.A.C., applies.

¹These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year period.

- County: Name of county in which the system resides.
- Name: Stream name that LAKEWATCH uses for the system.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- **Period of Record (years)**: Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

Table 2. Base File Data.

County	Alachua
Name	Blues Creek-1
GNIS Number	279084
Water Body Type	River/Stream
Period of Record (years, range)	13 (2009 to 2022)
Latitude	29.7179
Longitude	-82.4184

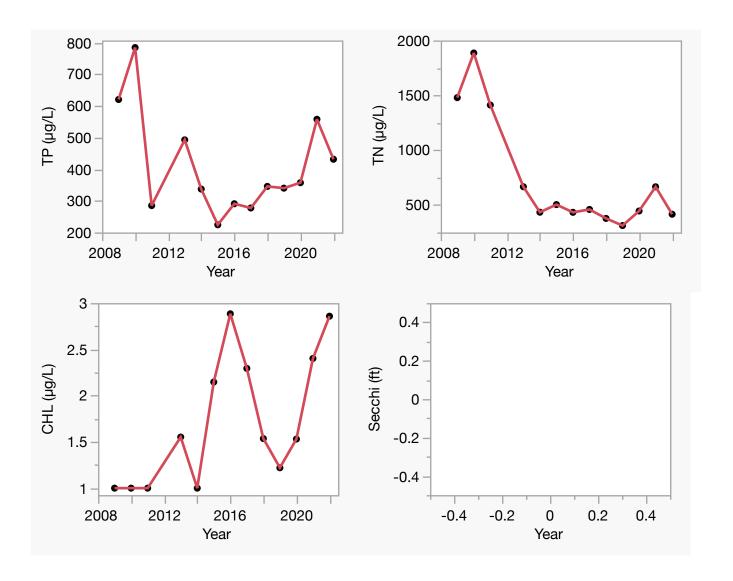
Long-Term Data for River/Streams: Definitions

- Total Phosphorus (µg/L): The nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algal population.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filter out.
- Specific Conductance (µS/cm@25°C): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 3. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance (collected quarterly).

Parameter	Minimum and Maximum	Grand Geometric Mean
	Annual Geometric Means	(Sampling years)
Total Phosphorus (μg/L)	224 - 785	386 (13)
Total Nitrogen (μg/L)	309 - 1886	608 (13)
Chlorophyll- uncorrected (µg/L)	1 - 3	2 (13)
Secchi (ft)	-	(0)
Secchi (m)	-	(0)
Color (Pt-Co Units)	10 - 393	35 (13)
Specific Conductance (µS/cm@25 C)	89 - 284	208 (13)

Figure 2. Blues Creek-1 trend plots of year by average. The R^2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R^2 the stronger the relation) and the p value indicates if the relation is significant (p < 0.05 is significant). Total phosphorus (TP No Trend, $R^2 = 0.12$, p = 0.25), total nitrogen (TN Decreasing, $R^2 = 0.60$, p = 0.00), chlorophyll (CHL Increasing, $R^2 = 0.40$, p = 0.02) and Secchi depth (Secchi , $R^2 = 0.02$).



LAKEWATCH Report for Blues Creek-2 in Alachua County Watershed Region: North Central Using Data Downloaded 12/9/22

Introduction for River/Streams

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data geometric means and ranges and the final part are the trend plots for nutrients, chlorophyll and Secchi depth. Plots were only made for systems with five or more years of data.



Figure 1. Map showing nutrient thresholds areas for streams set forth by FDEP.

Table 1. The nutrient thresholds for streams are listed in table below along with the map showing zones.

Nutrient Watershed	Total Phosphorus Nutrient	Total Nitrogen Nutrient Threshold ¹
Region	Threshold ¹	-
Panhandle West	60 μg/L	670 μg/L
Panhandle East	180 μg/L	1030 μg/L
North Central	300 μ/L	1870 μg/L
Peninsular	120 μg/L	1540 μg/L
West Central	490 μg/L	1650 μg/L
South Florida	No numeric nutrient threshold. The	No numeric nutrient threshold. The
	narrative criterion in paragraph 62-	narrative criterion in paragraph 62-
	302.530(47)(b), F.A.C., applies.	302.530(47)(b), F.A.C., applies.

¹These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year period.

- County: Name of county in which the system resides.
- Name: Stream name that LAKEWATCH uses for the system.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- Period of Record (years): Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

Table 2. Base File Data.

County	Alachua
Name	Blues Creek-2
GNIS Number	279084
Water Body Type	River/Stream
Period of Record (years, range)	13 (2009 to 2022)
Latitude	29.7203
Longitude	-82.4221

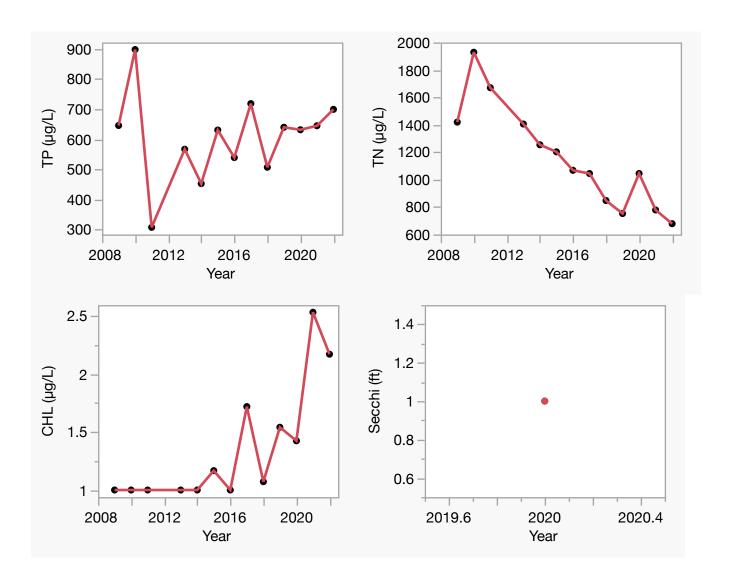
Long-Term Data for River/Streams: Definitions

- Total Phosphorus (µg/L): The nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algal population.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filter out.
- Specific Conductance (µS/cm@25°C): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 3. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance (collected quarterly).

Parameter	Minimum and Maximum	Grand Geometric Mean
	Annual Geometric Means	(Sampling years)
Total Phosphorus (μg/L)	308 - 898	590 (13)
Total Nitrogen (µg/L)	678 - 1929	1108 (13)
Chlorophyll- uncorrected (µg/L)	1 - 3	1 (13)
Secchi (ft)	1.0 - 1.0	1.0(1)
Secchi (m)	0.3 -0.3	0.3 (1)
Color (Pt-Co Units)	176 - 397	249 (13)
Specific Conductance (µS/cm@25 C)	93 - 166	128 (13)

Figure 2. Blues Creek-2 trend plots of year by average. The R^2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R^2 the stronger the relation) and the p value indicates if the relation is significant (p < 0.05 is significant). Total phosphorus (TP No Trend, $R^2 = 0.01$, p = 0.74), total nitrogen (TN Decreasing, $R^2 = 0.83$, p = 0.00), chlorophyll (CHL Increasing, $R^2 = 0.59$, p = 0.00) and Secchi depth (Secchi No Trend, $R^2 = 0.9$).



LAKEWATCH Report for Blues Creek-3 in Alachua County Watershed Region: North Central Using Data Downloaded 12/9/22

Introduction for River/Streams

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data geometric means and ranges and the final part are the trend plots for nutrients, chlorophyll and Secchi depth. Plots were only made for systems with five or more years of data.



Figure 1. Map showing nutrient thresholds areas for streams set forth by FDEP.

Table 1. The nutrient thresholds for streams are listed in table below along with the map showing zones.

Nutrient Watershed	Total Phosphorus Nutrient	Total Nitrogen Nutrient Threshold ¹
Region	Threshold ¹	-
Panhandle West	60 μg/L	670 μg/L
Panhandle East	180 μg/L	1030 μg/L
North Central	300 μ/L	1870 μg/L
Peninsular	120 μg/L	1540 μg/L
West Central	490 μg/L	1650 μg/L
South Florida	No numeric nutrient threshold. The	No numeric nutrient threshold. The
	narrative criterion in paragraph 62-	narrative criterion in paragraph 62-
	302.530(47)(b), F.A.C., applies.	302.530(47)(b), F.A.C., applies.

¹These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year period.

- County: Name of county in which the system resides.
- Name: Stream name that LAKEWATCH uses for the system.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- **Period of Record (years)**: Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

Table 2. Base File Data.

County	Alachua
Name	Blues Creek-3
GNIS Number	279084
Water Body Type	River/Stream
Period of Record (years, range)	13 (2009 to 2022)
Latitude	29.7269
Longitude	-82.4219

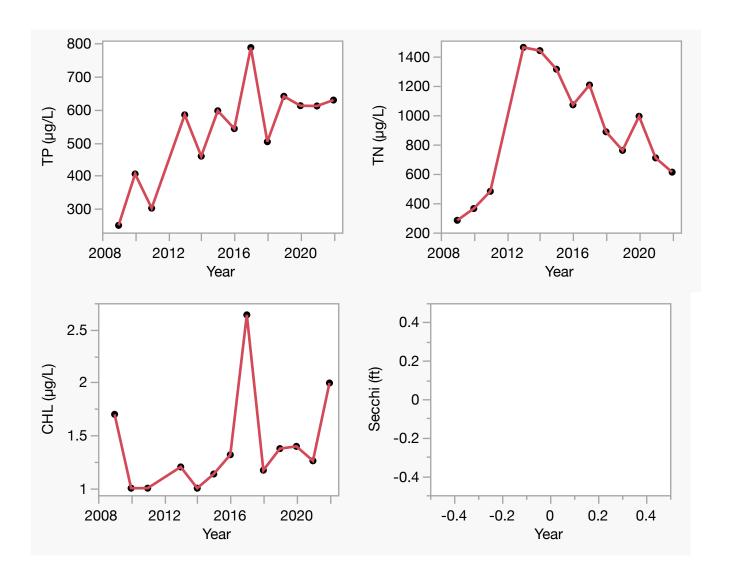
Long-Term Data for River/Streams: Definitions

- Total Phosphorus (µg/L): The nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algal population.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filter out.
- Specific Conductance (µS/cm@25°C): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 3. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance (collected quarterly).

Parameter	Minimum and Maximum	Grand Geometric Mean
	Annual Geometric Means	(Sampling years)
Total Phosphorus (μg/L)	250 - 787	510 (13)
Total Nitrogen (µg/L)	283 - 1459	794 (13)
Chlorophyll- uncorrected (µg/L)	1 - 3	1 (13)
Secchi (ft)	-	(0)
Secchi (m)	-	(0)
Color (Pt-Co Units)	12 - 371	124 (13)
Specific Conductance (µS/cm@25 C)	94 - 242	152 (13)

Figure 2. Blues Creek-3 trend plots of year by average. The R^2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R^2 the stronger the relation) and the p value indicates if the relation is significant (p < 0.05 is significant). Total phosphorus (TP Increasing, $R^2 = 0.57$, p = 0.00), total nitrogen (TN No Trend, $R^2 = 0.04$, p = 0.52), chlorophyll (CHL No Trend, $R^2 = 0.10$, p = 0.29) and Secchi depth (Secchi , $R^2 = 0.04$).



LAKEWATCH Report for Cellon Creek-1 in Alachua County Watershed Region: North Central Using Data Downloaded 12/9/22

Introduction for River/Streams

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data geometric means and ranges and the final part are the trend plots for nutrients, chlorophyll and Secchi depth. Plots were only made for systems with five or more years of data.



Figure 1. Map showing nutrient thresholds areas for streams set forth by FDEP.

Table 1. The nutrient thresholds for streams are listed in table below along with the map showing zones.

Nutrient Watershed	Total Phosphorus Nutrient	Total Nitrogen Nutrient Threshold ¹
Region	Threshold ¹	-
Panhandle West	60 μg/L	670 μg/L
Panhandle East	180 μg/L	1030 μg/L
North Central	300 μ/L	1870 μg/L
Peninsular	120 μg/L	1540 μg/L
West Central	490 μg/L	1650 μg/L
South Florida	No numeric nutrient threshold. The	No numeric nutrient threshold. The
	narrative criterion in paragraph 62-	narrative criterion in paragraph 62-
	302.530(47)(b), F.A.C., applies.	302.530(47)(b), F.A.C., applies.

¹These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year period.

- County: Name of county in which the system resides.
- Name: Stream name that LAKEWATCH uses for the system.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- Period of Record (years): Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

Table 2. Base File Data.

County	Alachua
Name	Cellon Creek-1
GNIS Number	
Water Body Type	River/Stream
Period of Record (years, range)	15 (2008 to 2022)
Latitude	29.7746
Longitude	-82.4731

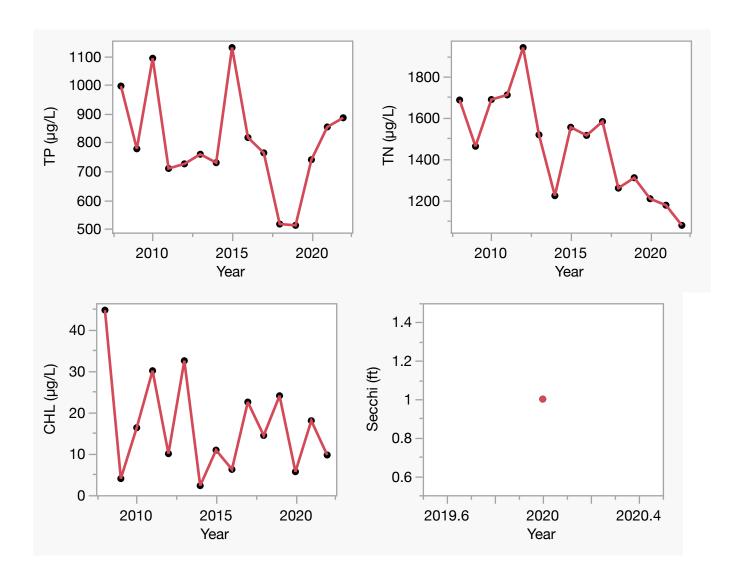
Long-Term Data for River/Streams: Definitions

- Total Phosphorus (µg/L): The nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algal population.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filter out.
- Specific Conductance (µS/cm@25°C): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 3. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance (collected quarterly).

Parameter	Minimum and Maximum	Grand Geometric Mean
	Annual Geometric Means	(Sampling years)
Total Phosphorus (μg/L)	511 - 1130	782 (15)
Total Nitrogen (µg/L)	1077 - 1940	1440 (15)
Chlorophyll- uncorrected (µg/L)	2 - 45	13 (15)
Secchi (ft)	1.0 - 1.0	1.0(1)
Secchi (m)	0.3 -0.3	0.3 (1)
Color (Pt-Co Units)	73 - 193	115 (15)
Specific Conductance (µS/cm@25 C)	158 - 328	231 (15)

Figure 2. Cellon Creek-1 trend plots of year by average. The R^2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R^2 the stronger the relation) and the p value indicates if the relation is significant (p < 0.05 is significant). Total phosphorus (TP No Trend, $R^2 = 0.10$, p = 0.26), total nitrogen (TN Decreasing, $R^2 = 0.57$, p = 0.00), chlorophyll (CHL No Trend, $R^2 = 0.10$, p = 0.25) and Secchi depth (Secchi No Trend, $R^2 = 0.10$).



LAKEWATCH Report for Cellon Creek-2 in Alachua County Watershed Region: North Central Using Data Downloaded 12/9/22

Introduction for River/Streams

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data geometric means and ranges and the final part are the trend plots for nutrients, chlorophyll and Secchi depth. Plots were only made for systems with five or more years of data.



Figure 1. Map showing nutrient thresholds areas for streams set forth by FDEP.

Table 1. The nutrient thresholds for streams are listed in table below along with the map showing zones.

Nutrient Watershed	Total Phosphorus Nutrient	Total Nitrogen Nutrient Threshold ¹
Region	Threshold ¹	-
Panhandle West	60 μg/L	670 μg/L
Panhandle East	180 μg/L	1030 μg/L
North Central	300 μ/L	1870 μg/L
Peninsular	120 μg/L	1540 μg/L
West Central	490 μg/L	1650 μg/L
South Florida	No numeric nutrient threshold. The	No numeric nutrient threshold. The
	narrative criterion in paragraph 62-	narrative criterion in paragraph 62-
	302.530(47)(b), F.A.C., applies.	302.530(47)(b), F.A.C., applies.

¹These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year period.

- County: Name of county in which the system resides.
- Name: Stream name that LAKEWATCH uses for the system.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- Period of Record (years): Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

Table 2. Base File Data.

County	Alachua
Name	Cellon Creek-2
GNIS Number	
Water Body Type	River/Stream
Period of Record (years, range)	15 (2008 to 2022)
Latitude	29.7691
Longitude	-82.4549

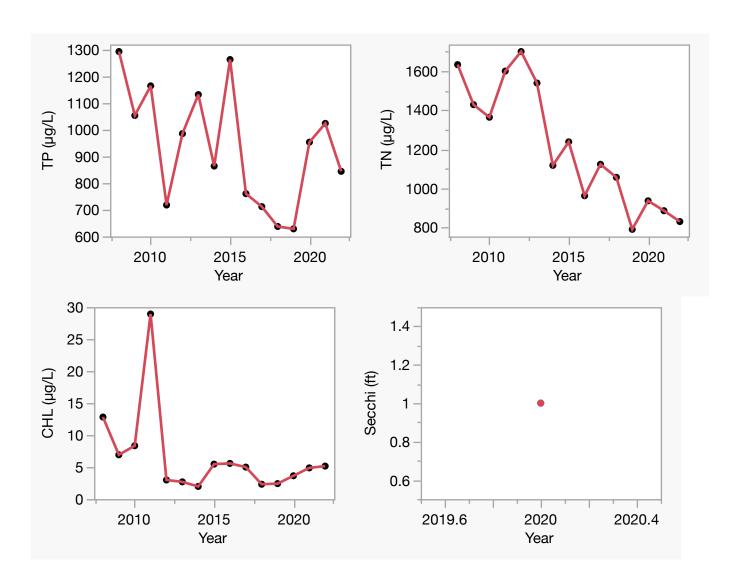
Long-Term Data for River/Streams: Definitions

- Total Phosphorus (µg/L): The nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algal population.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filter out.
- Specific Conductance (µS/cm@25°C): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 3. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance (collected quarterly).

Parameter	Minimum and Maximum	Grand Geometric Mean
	Annual Geometric Means	(Sampling years)
Total Phosphorus (μg/L)	629 - 1294	912 (15)
Total Nitrogen (µg/L)	791 - 1700	1177 (15)
Chlorophyll- uncorrected (µg/L)	2 - 29	5 (15)
Secchi (ft)	1.0 - 1.0	1.0(1)
Secchi (m)	0.3 -0.3	0.3 (1)
Color (Pt-Co Units)	63 - 128	93 (15)
Specific Conductance (µS/cm@25 C)	188 - 342	270 (15)

Figure 2. Cellon Creek-2 trend plots of year by average. The R^2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R^2 the stronger the relation) and the p value indicates if the relation is significant (p < 0.05 is significant). Total phosphorus (TP No Trend, $R^2 = 0.24$, p = 0.06), total nitrogen (TN Decreasing, $R^2 = 0.78$, p = 0.00), chlorophyll (CHL No Trend, $R^2 = 0.20$, p = 0.10) and Secchi depth (Secchi No Trend, $R^2 = 0.20$).



LAKEWATCH Report for Cellon Creek-3 in Alachua County Watershed Region: North Central Using Data Downloaded 12/9/22

Introduction for River/Streams

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data geometric means and ranges and the final part are the trend plots for nutrients, chlorophyll and Secchi depth. Plots were only made for systems with five or more years of data.



Figure 1. Map showing nutrient thresholds areas for streams set forth by FDEP.

Table 1. The nutrient thresholds for streams are listed in table below along with the map showing zones.

Nutrient Watershed	Total Phosphorus Nutrient	Total Nitrogen Nutrient Threshold ¹
Region	Threshold ¹	-
Panhandle West	60 μg/L	670 μg/L
Panhandle East	180 μg/L	1030 μg/L
North Central	300 μ/L	1870 μg/L
Peninsular	120 μg/L	1540 μg/L
West Central	490 μg/L	1650 μg/L
South Florida	No numeric nutrient threshold. The	No numeric nutrient threshold. The
	narrative criterion in paragraph 62-	narrative criterion in paragraph 62-
	302.530(47)(b), F.A.C., applies.	302.530(47)(b), F.A.C., applies.

¹These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year period.

- County: Name of county in which the system resides.
- Name: Stream name that LAKEWATCH uses for the system.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- Period of Record (years): Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

Table 2. Base File Data.

County	Alachua
Name	Cellon Creek-3
GNIS Number	
Water Body Type	River/Stream
Period of Record (years, range)	15 (2008 to 2022)
Latitude	29.7686
Longitude	-82.4461

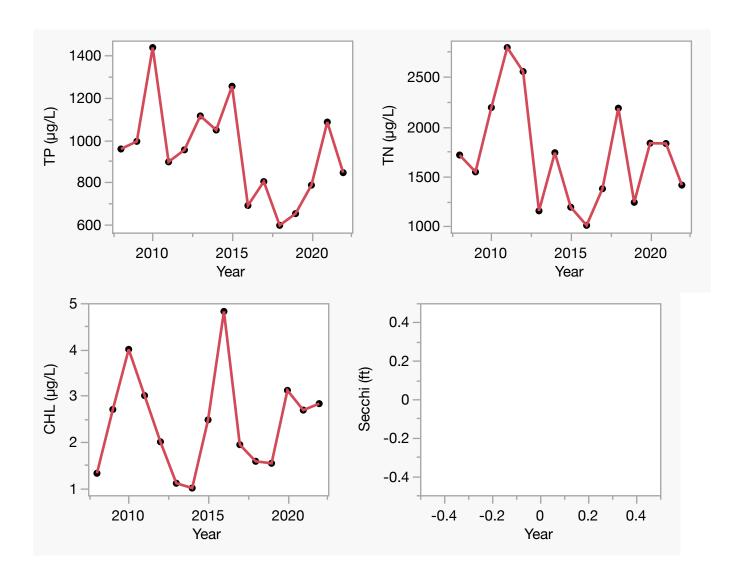
Long-Term Data for River/Streams: Definitions

- Total Phosphorus (µg/L): The nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algal population.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filter out.
- Specific Conductance (µS/cm@25°C): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 3. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance (collected quarterly).

Parameter	Minimum and Maximum	Grand Geometric Mean
	Annual Geometric Means	(Sampling years)
Total Phosphorus (μg/L)	595 - 1438	915 (15)
Total Nitrogen (µg/L)	1010 - 2790	1646 (15)
Chlorophyll- uncorrected (µg/L)	1 - 5	2 (15)
Secchi (ft)	ı	(0)
Secchi (m)	-	(0)
Color (Pt-Co Units)	29 - 142	60 (14)
Specific Conductance (µS/cm@25 C)	265 - 447	336 (14)

Figure 2. Cellon Creek-3 trend plots of year by average. The R^2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R^2 the stronger the relation) and the p value indicates if the relation is significant (p < 0.05 is significant). Total phosphorus (TP No Trend, $R^2 = 0.21$, p = 0.09), total nitrogen (TN No Trend, $R^2 = 0.09$, p = 0.28), chlorophyll (CHL No Trend, $R^2 = 0.00$, p = 0.82) and Secchi depth (Secchi , $R^2 = 0.00$).



LAKEWATCH Report for Cellon Creek-4 in Alachua County Watershed Region: North Central Using Data Downloaded 12/9/22

Introduction for River/Streams

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data geometric means and ranges and the final part are the trend plots for nutrients, chlorophyll and Secchi depth. Plots were only made for systems with five or more years of data.



Figure 1. Map showing nutrient thresholds areas for streams set forth by FDEP.

Table 1. The nutrient thresholds for streams are listed in table below along with the map showing zones.

Nutrient Watershed	Total Phosphorus Nutrient	Total Nitrogen Nutrient Threshold ¹
Region	Threshold ¹	_
Panhandle West	60 μg/L	670 μg/L
Panhandle East	180 μg/L	1030 μg/L
North Central	300 μ/L	1870 μg/L
Peninsular	120 μg/L	1540 μg/L
West Central	490 μg/L	1650 μg/L
South Florida	No numeric nutrient threshold. The	No numeric nutrient threshold. The
	narrative criterion in paragraph 62-	narrative criterion in paragraph 62-
	302.530(47)(b), F.A.C., applies.	302.530(47)(b), F.A.C., applies.

¹These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year period.

- County: Name of county in which the system resides.
- Name: Stream name that LAKEWATCH uses for the system.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- Period of Record (years): Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

Table 2. Base File Data.

County	Alachua
Name	Cellon Creek-4
GNIS Number	
Water Body Type	River/Stream
Period of Record (years, range)	15 (2008 to 2022)
Latitude	29.7703
Longitude	-82.4297

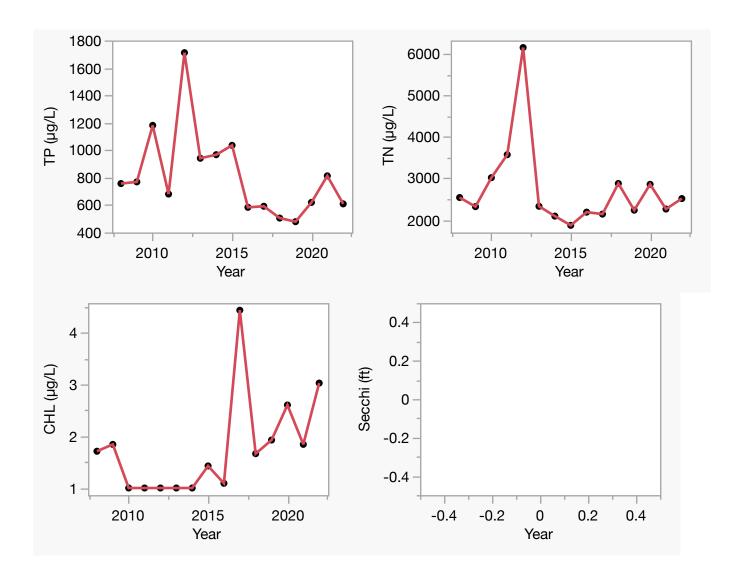
Long-Term Data for River/Streams: Definitions

- Total Phosphorus (µg/L): The nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algal population.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filter out.
- Specific Conductance (µS/cm@25°C): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 3. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance (collected quarterly).

Parameter	Minimum and Maximum	Grand Geometric Mean
	Annual Geometric Means	(Sampling years)
Total Phosphorus (μg/L)	479 - 1711	768 (15)
Total Nitrogen (µg/L)	1869 - 6150	2605 (15)
Chlorophyll- uncorrected (µg/L)	1 - 4	2 (15)
Secchi (ft)	ı	(0)
Secchi (m)	-	(0)
Color (Pt-Co Units)	21 - 111	47 (13)
Specific Conductance (µS/cm@25 C)	308 - 473	382 (13)

Figure 2. Cellon Creek-4 trend plots of year by average. The R^2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R^2 the stronger the relation) and the p value indicates if the relation is significant (p < 0.05 is significant). Total phosphorus (TP No Trend, $R^2 = 0.20$, p = 0.09), total nitrogen (TN No Trend, $R^2 = 0.07$, p = 0.35), chlorophyll (CHL No Trend, $R^2 = 0.25$, p = 0.06) and Secchi depth (Secchi , $R^2 = 0.07$).



LAKEWATCH Report for Hogtown Creek-1 in Alachua County Watershed Region: North Central Using Data Downloaded 12/9/22

Introduction for River/Streams

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data geometric means and ranges and the final part are the trend plots for nutrients, chlorophyll and Secchi depth. Plots were only made for systems with five or more years of data.



Figure 1. Map showing nutrient thresholds areas for streams set forth by FDEP.

Table 1. The nutrient thresholds for streams are listed in table below along with the map showing zones.

Nutrient Watershed	Total Phosphorus Nutrient	Total Nitrogen Nutrient Threshold ¹
Region	Threshold ¹	-
Panhandle West	60 μg/L	670 μg/L
Panhandle East	180 μg/L	1030 μg/L
North Central	300 μ/L	1870 μg/L
Peninsular	120 μg/L	1540 μg/L
West Central	490 μg/L	1650 μg/L
South Florida	No numeric nutrient threshold. The	No numeric nutrient threshold. The
	narrative criterion in paragraph 62-	narrative criterion in paragraph 62-
	302.530(47)(b), F.A.C., applies.	302.530(47)(b), F.A.C., applies.

¹These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year period.

- County: Name of county in which the system resides.
- Name: Stream name that LAKEWATCH uses for the system.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- **Period of Record (years)**: Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

Table 2. Base File Data.

County	Alachua
Name	Hogtown Creek-1
GNIS Number	
Water Body Type	River/Stream
Period of Record (years, range)	2 (2021 to 2022)
Latitude	29.6718
Longitude	-82.3460

Long-Term Data for River/Streams: Definitions

- Total Phosphorus (µg/L): The nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algal population.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filter out.
- Specific Conductance (µS/cm@25°C): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 3. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance (collected quarterly).

Parameter	Minimum and Maximum	Grand Geometric Mean
	Annual Geometric Means	(Sampling years)
Total Phosphorus (μg/L)	344 - 395	369 (2)
Total Nitrogen (µg/L)	598 - 726	659 (2)
Chlorophyll- uncorrected (µg/L)	2 - 2	2 (2)
Secchi (ft)	0.3 - 0.5	0.4(2)
Secchi (m)	0.1 -0.2	0.1 (2)
Color (Pt-Co Units)	83 - 88	86 (2)
Specific Conductance (µS/cm@25 C)	196 - 199	197 (2)

LAKEWATCH Report for Hogtown Creek-2 in Alachua County Watershed Region: North Central Using Data Downloaded 12/9/22

Introduction for River/Streams

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data geometric means and ranges and the final part are the trend plots for nutrients, chlorophyll and Secchi depth. Plots were only made for systems with five or more years of data.



Figure 1. Map showing nutrient thresholds areas for streams set forth by FDEP.

Table 1. The nutrient thresholds for streams are listed in table below along with the map showing zones.

Nutrient Watershed	Total Phosphorus Nutrient	Total Nitrogen Nutrient Threshold ¹
Region	Threshold ¹	-
Panhandle West	60 μg/L	670 μg/L
Panhandle East	180 μg/L	1030 μg/L
North Central	300 μ/L	1870 μg/L
Peninsular	120 μg/L	1540 μg/L
West Central	490 μg/L	1650 μg/L
South Florida	No numeric nutrient threshold. The	No numeric nutrient threshold. The
	narrative criterion in paragraph 62-	narrative criterion in paragraph 62-
	302.530(47)(b), F.A.C., applies.	302.530(47)(b), F.A.C., applies.

¹These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year period.

- County: Name of county in which the system resides.
- Name: Stream name that LAKEWATCH uses for the system.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- Period of Record (years): Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

Table 2. Base File Data.

County	Alachua
Name	Hogtown Creek-2
GNIS Number	
Water Body Type	River/Stream
Period of Record (years, range)	2 (2021 to 2022)
Latitude	29.6711
Longitude	-82.3467

Long-Term Data for River/Streams: Definitions

- Total Phosphorus (µg/L): The nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algal population.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filter out.
- Specific Conductance (µS/cm@25°C): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 3. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance (collected quarterly).

Parameter	Minimum and Maximum	Grand Geometric Mean
	Annual Geometric Means	(Sampling years)
Total Phosphorus (μg/L)	214 - 442	308 (2)
Total Nitrogen (µg/L)	590 - 748	664 (2)
Chlorophyll- uncorrected (µg/L)	1 - 2	1 (2)
Secchi (ft)	0.5 - 1.3	0.8 (2)
Secchi (m)	0.2 -0.4	0.2 (2)
Color (Pt-Co Units)	83 - 86	84 (2)
Specific Conductance (µS/cm@25 C)	190 - 196	193 (2)

LAKEWATCH Report for Paraners Branch-1 in Alachua County Watershed Region: North Central Using Data Downloaded 12/9/22

Introduction for River/Streams

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data geometric means and ranges and the final part are the trend plots for nutrients, chlorophyll and Secchi depth. Plots were only made for systems with five or more years of data.



Figure 1. Map showing nutrient thresholds areas for streams set forth by FDEP.

Table 1. The nutrient thresholds for streams are listed in table below along with the map showing zones.

Nutrient Watershed	Total Phosphorus Nutrient	Total Nitrogen Nutrient Threshold ¹
Region	Threshold ¹	-
Panhandle West	60 μg/L	670 μg/L
Panhandle East	180 μg/L	1030 μg/L
North Central	300 μ/L	1870 μg/L
Peninsular	120 μg/L	1540 μg/L
West Central	490 μg/L	1650 μg/L
South Florida	No numeric nutrient threshold. The	No numeric nutrient threshold. The
	narrative criterion in paragraph 62-	narrative criterion in paragraph 62-
	302.530(47)(b), F.A.C., applies.	302.530(47)(b), F.A.C., applies.

¹These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year period.

- County: Name of county in which the system resides.
- Name: Stream name that LAKEWATCH uses for the system.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- Period of Record (years): Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

Table 2. Base File Data.

County	Alachua
Name	Paraners Branch-1
GNIS Number	288492
Water Body Type	River/Stream
Period of Record (years, range)	7 (2015 to 2021)
Latitude	29.9091
Longitude	-82.5635

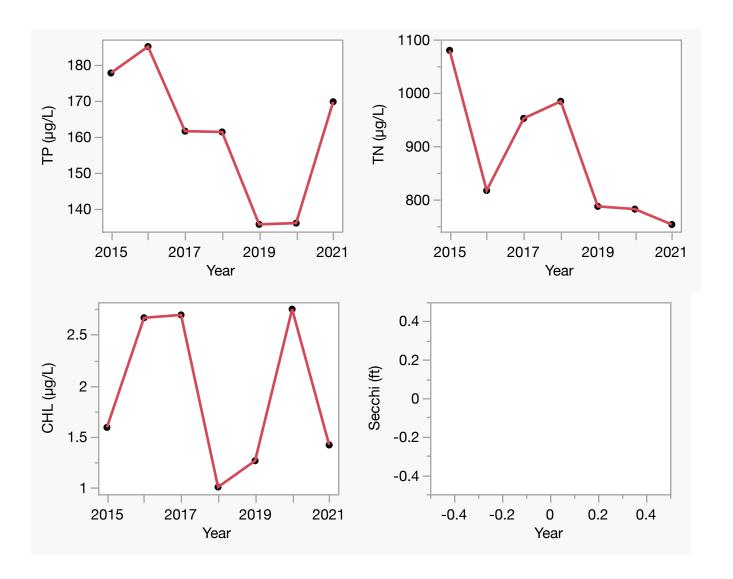
Long-Term Data for River/Streams: Definitions

- Total Phosphorus (µg/L): The nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algal population.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filter out.
- Specific Conductance (µS/cm@25°C): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 3. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance (collected quarterly).

Parameter	Minimum and Maximum	Grand Geometric Mean
	Annual Geometric Means	(Sampling years)
Total Phosphorus (μg/L)	136 - 185	160 (7)
Total Nitrogen (μg/L)	754 - 1080	872 (7)
Chlorophyll- uncorrected (µg/L)	1 - 3	2 (7)
Secchi (ft)	-	(0)
Secchi (m)	-	(0)
Color (Pt-Co Units)	72 - 295	142 (7)
Specific Conductance (µS/cm@25 C)	137 - 270	219 (7)

Figure 2. Paraners Branch-1 trend plots of year by average. The R^2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R^2 the stronger the relation) and the p value indicates if the relation is significant (p < 0.05 is significant). Total phosphorus (TP No Trend, $R^2 = 0.36$, p = 0.16), total nitrogen (TN No Trend, $R^2 = 0.56$, p = 0.05), chlorophyll (CHL No Trend, $R^2 = 0.03$, p = 0.70) and Secchi depth (Secchi , $R^2 = 0.03$).



LAKEWATCH Report for Paraners Branch-2 in Alachua County Watershed Region: North Central Using Data Downloaded 12/9/22

Introduction for River/Streams

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data geometric means and ranges and the final part are the trend plots for nutrients, chlorophyll and Secchi depth. Plots were only made for systems with five or more years of data.



Figure 1. Map showing nutrient thresholds areas for streams set forth by FDEP.

Table 1. The nutrient thresholds for streams are listed in table below along with the map showing zones.

Nutrient Watershed	Total Phosphorus Nutrient	Total Nitrogen Nutrient Threshold ¹
Region	Threshold ¹	,
Panhandle West	60 μg/L	670 μg/L
Panhandle East	180 μg/L	1030 μg/L
North Central	300 μ/L	1870 μg/L
Peninsular	120 μg/L	1540 μg/L
West Central	490 μg/L	1650 μg/L
South Florida	No numeric nutrient threshold. The	No numeric nutrient threshold. The
	narrative criterion in paragraph 62-	narrative criterion in paragraph 62-
	302.530(47)(b), F.A.C., applies.	302.530(47)(b), F.A.C., applies.

¹These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year period.

- County: Name of county in which the system resides.
- Name: Stream name that LAKEWATCH uses for the system.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- **Period of Record (years)**: Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

Table 2. Base File Data.

County	Alachua
Name	Paraners Branch-2
GNIS Number	288492
Water Body Type	River/Stream
Period of Record (years, range)	7 (2015 to 2021)
Latitude	29.9099
Longitude	-82.5593

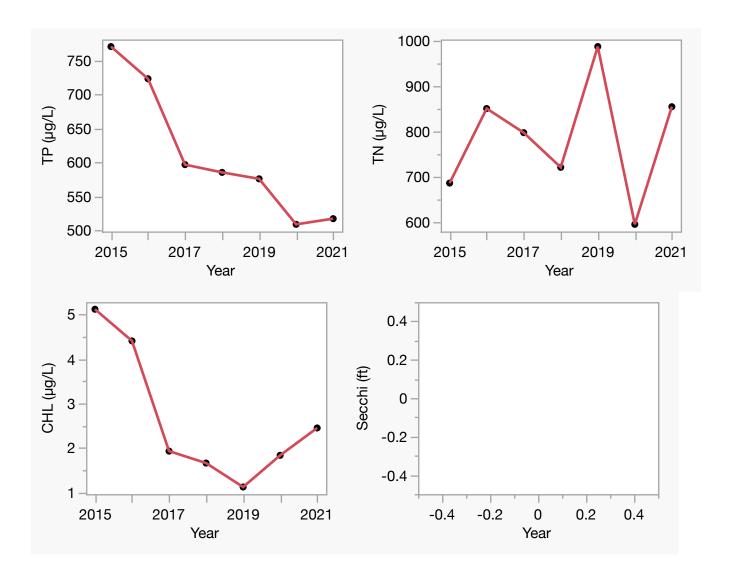
Long-Term Data for River/Streams: Definitions

- Total Phosphorus (µg/L): The nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algal population.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filter out.
- Specific Conductance (µS/cm@25°C): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 3. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance (collected quarterly).

Parameter	Minimum and Maximum	Grand Geometric Mean
	Annual Geometric Means	(Sampling years)
Total Phosphorus (μg/L)	509 - 771	605 (7)
Total Nitrogen (µg/L)	596 - 988	776 (7)
Chlorophyll- uncorrected (µg/L)	1 - 5	2 (7)
Secchi (ft)	-	(0)
Secchi (m)	-	(0)
Color (Pt-Co Units)	53 - 78	63 (7)
Specific Conductance (µS/cm@25 C)	169 - 203	187 (7)

Figure 2. Paraners Branch-2 trend plots of year by average. The R^2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R^2 the stronger the relation) and the p value indicates if the relation is significant (p < 0.05 is significant). Total phosphorus (TP Decreasing, $R^2 = 0.88$, p = 0.00), total nitrogen (TN No Trend, $R^2 = 0.01$, p = 0.81), chlorophyll (CHL No Trend, $R^2 = 0.51$, p = 0.07) and Secchi depth (Secchi, $R^2 = 0.51$, p = 0.07).



LAKEWATCH Report for Paraners Branch-3 in Alachua County Watershed Region: North Central Using Data Downloaded 12/9/22

Introduction for River/Streams

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data geometric means and ranges and the final part are the trend plots for nutrients, chlorophyll and Secchi depth. Plots were only made for systems with five or more years of data.



Figure 1. Map showing nutrient thresholds areas for streams set forth by FDEP.

Table 1. The nutrient thresholds for streams are listed in table below along with the map showing zones.

Nutrient Watershed	Total Phosphorus Nutrient	Total Nitrogen Nutrient Threshold ¹
Region	Threshold ¹	-
Panhandle West	60 μg/L	670 μg/L
Panhandle East	180 μg/L	1030 μg/L
North Central	300 μ/L	1870 μg/L
Peninsular	120 μg/L	1540 μg/L
West Central	490 μg/L	1650 μg/L
South Florida	No numeric nutrient threshold. The	No numeric nutrient threshold. The
	narrative criterion in paragraph 62-	narrative criterion in paragraph 62-
	302.530(47)(b), F.A.C., applies.	302.530(47)(b), F.A.C., applies.

¹These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year period.

- County: Name of county in which the system resides.
- Name: Stream name that LAKEWATCH uses for the system.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- Period of Record (years): Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

Table 2. Base File Data.

County	Alachua
Name	Paraners Branch-3
GNIS Number	288492
Water Body Type	River/Stream
Period of Record (years, range)	7 (2015 to 2021)
Latitude	29.9071
Longitude	-82.5351

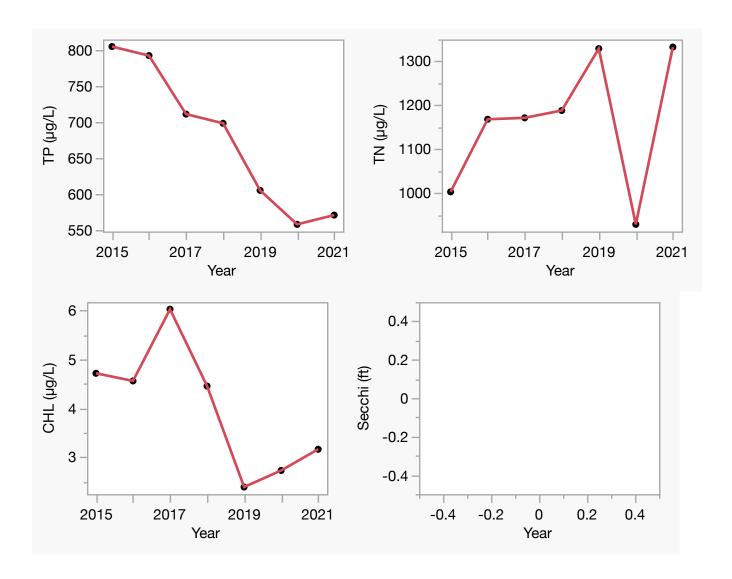
Long-Term Data for River/Streams: Definitions

- Total Phosphorus (µg/L): The nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algal population.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filter out.
- Specific Conductance (µS/cm@25°C): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 3. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance (collected quarterly).

Parameter	Minimum and Maximum	Grand Geometric Mean
	Annual Geometric Means	(Sampling years)
Total Phosphorus (μg/L)	558 - 806	671 (7)
Total Nitrogen (µg/L)	930 - 1333	1152 (7)
Chlorophyll- uncorrected (µg/L)	2 - 6	4 (7)
Secchi (ft)	-	(0)
Secchi (m)	-	(0)
Color (Pt-Co Units)	37 - 53	46 (7)
Specific Conductance (µS/cm@25 C)	173 - 199	188 (7)

Figure 2. Paraners Branch-3 trend plots of year by average. The R^2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R^2 the stronger the relation) and the p value indicates if the relation is significant (p < 0.05 is significant). Total phosphorus (TP Decreasing, $R^2 = 0.94$, p = 0.00), total nitrogen (TN No Trend, $R^2 = 0.12$, p = 0.45), chlorophyll (CHL No Trend, $R^2 = 0.51$, p = 0.07) and Secchi depth (Secchi, $R^2 = 0.51$, p = 0.07).



LAKEWATCH Report for Santa Fe River Rise-1 in Alachua County Watershed Region: North Central Using Data Downloaded 12/9/22

Introduction for River/Streams

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data geometric means and ranges and the final part are the trend plots for nutrients, chlorophyll and Secchi depth. Plots were only made for systems with five or more years of data.



Figure 1. Map showing nutrient thresholds areas for streams set forth by FDEP.

Table 1. The nutrient thresholds for streams are listed in table below along with the map showing zones.

Nutrient Watershed	Total Phosphorus Nutrient	Total Nitrogen Nutrient Threshold ¹
Region	Threshold ¹	-
Panhandle West	60 μg/L	670 μg/L
Panhandle East	180 μg/L	1030 μg/L
North Central	300 μ/L	1870 μg/L
Peninsular	120 μg/L	1540 μg/L
West Central	490 μg/L	1650 μg/L
South Florida	No numeric nutrient threshold. The	No numeric nutrient threshold. The
	narrative criterion in paragraph 62-	narrative criterion in paragraph 62-
	302.530(47)(b), F.A.C., applies.	302.530(47)(b), F.A.C., applies.

¹These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year period.

- County: Name of county in which the system resides.
- Name: Stream name that LAKEWATCH uses for the system.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- Period of Record (years): Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

Table 2. Base File Data.

County	Alachua
Name	Santa Fe River Rise-1
GNIS Number	290658
Water Body Type	River/Stream
Period of Record (years, range)	7 (2015 to 2021)
Latitude	29.8740
Longitude	-82.5915

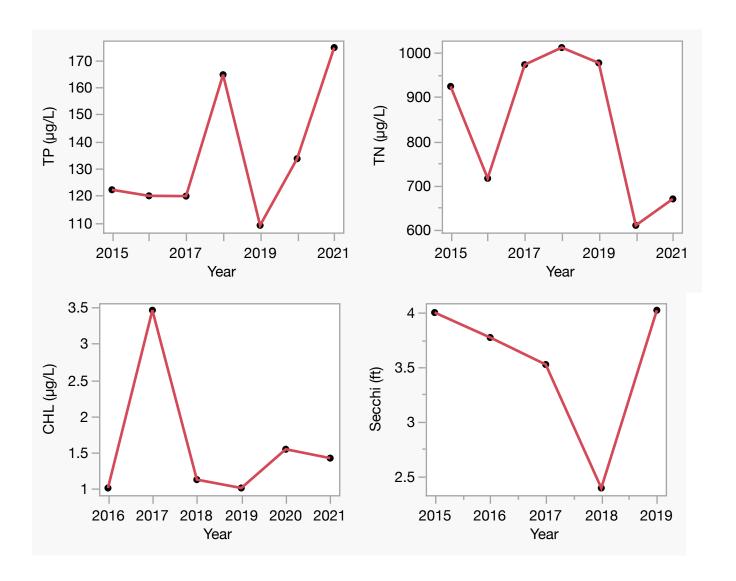
Long-Term Data for River/Streams: Definitions

- Total Phosphorus (µg/L): The nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algal population.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filter out.
- Specific Conductance (µS/cm@25°C): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 3. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance (collected quarterly).

Parameter	Minimum and Maximum	Grand Geometric Mean
	Annual Geometric Means	(Sampling years)
Total Phosphorus (μg/L)	109 - 175	133 (7)
Total Nitrogen (µg/L)	610 - 1011	825 (7)
Chlorophyll- uncorrected (µg/L)	1 - 3	1 (6)
Secchi (ft)	2.4 - 4.0	3.5 (5)
Secchi (m)	0.7 -1.2	1.1 (5)
Color (Pt-Co Units)	69 - 231	131 (7)
Specific Conductance (µS/cm@25 C)	114 - 350	250 (7)

Figure 2. Santa Fe River Rise-1 trend plots of year by average. The R^2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R^2 the stronger the relation) and the p value indicates if the relation is significant (p < 0.05 is significant). Total phosphorus (TP No Trend, $R^2 = 0.29$, p = 0.21), total nitrogen (TN No Trend, $R^2 = 0.20$, p = 0.32), chlorophyll (CHL No Trend, $R^2 = 0.05$, p = 0.68) and Secchi depth (Secchi No Trend, $R^2 = 0.10$, p = 0.61).



LAKEWATCH Report for Santa Fe River Sink-1 in Alachua County Watershed Region: North Central Using Data Downloaded 12/9/22

Introduction for River/Streams

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data geometric means and ranges and the final part are the trend plots for nutrients, chlorophyll and Secchi depth. Plots were only made for systems with five or more years of data.



Figure 1. Map showing nutrient thresholds areas for streams set forth by FDEP.

Table 1. The nutrient thresholds for streams are listed in table below along with the map showing zones.

Nutrient Watershed	Total Phosphorus Nutrient	Total Nitrogen Nutrient Threshold ¹
Region	Threshold ¹	
Panhandle West	60 μg/L	670 μg/L
Panhandle East	180 μg/L	1030 μg/L
North Central	300 μ/L	1870 μg/L
Peninsular	120 μg/L	1540 μg/L
West Central	490 μg/L	1650 μg/L
South Florida	No numeric nutrient threshold. The	No numeric nutrient threshold. The
	narrative criterion in paragraph 62-	narrative criterion in paragraph 62-
	302.530(47)(b), F.A.C., applies.	302.530(47)(b), F.A.C., applies.

¹These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year period.

- County: Name of county in which the system resides.
- Name: Stream name that LAKEWATCH uses for the system.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- **Period of Record (years)**: Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

Table 2. Base File Data.

County	Alachua
Name	Santa Fe River Sink-1
GNIS Number	290658
Water Body Type	River/Stream
Period of Record (years, range)	7 (2015 to 2021)
Latitude	29.9146
Longitude	-82.5796

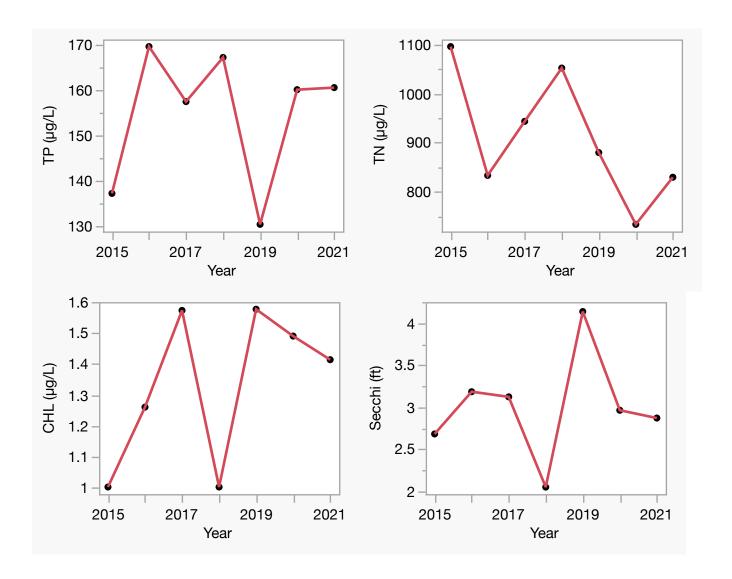
Long-Term Data for River/Streams: Definitions

- Total Phosphorus (µg/L): The nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algal population.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filter out.
- Specific Conductance (µS/cm@25°C): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 3. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance (collected quarterly).

Parameter	Minimum and Maximum	Grand Geometric Mean
	Annual Geometric Means	(Sampling years)
Total Phosphorus (μg/L)	130 - 170	154 (7)
Total Nitrogen (µg/L)	734 - 1095	902 (7)
Chlorophyll- uncorrected (µg/L)	1 - 2	1 (7)
Secchi (ft)	2.1 - 4.1	2.9 (7)
Secchi (m)	0.6 -1.3	0.9 (7)
Color (Pt-Co Units)	87 - 310	157 (7)
Specific Conductance (µS/cm@25 C)	104 - 217	158 (7)

Figure 2. Santa Fe River Sink-1 trend plots of year by average. The R^2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R^2 the stronger the relation) and the p value indicates if the relation is significant (p < 0.05 is significant). Total phosphorus (TP No Trend, $R^2 = 0.02$, p = 0.79), total nitrogen (TN No Trend, $R^2 = 0.40$, p = 0.13), chlorophyll (CHL No Trend, $R^2 = 0.28$, p = 0.23) and Secchi depth (Secchi No Trend, $R^2 = 0.02$, p = 0.76).



LAKEWATCH Report for Santa Fe River Sink-2 in Alachua County Watershed Region: North Central Using Data Downloaded 12/9/22

Introduction for River/Streams

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data geometric means and ranges and the final part are the trend plots for nutrients, chlorophyll and Secchi depth. Plots were only made for systems with five or more years of data.



Figure 1. Map showing nutrient thresholds areas for streams set forth by FDEP.

Table 1. The nutrient thresholds for streams are listed in table below along with the map showing zones.

Nutrient Watershed	Total Phosphorus Nutrient	Total Nitrogen Nutrient Threshold ¹
Region	Threshold ¹	-
Panhandle West	60 μg/L	670 μg/L
Panhandle East	180 μg/L	1030 μg/L
North Central	300 μ/L	1870 μg/L
Peninsular	120 μg/L	1540 μg/L
West Central	490 μg/L	1650 μg/L
South Florida	No numeric nutrient threshold. The	No numeric nutrient threshold. The
	narrative criterion in paragraph 62-	narrative criterion in paragraph 62-
	302.530(47)(b), F.A.C., applies.	302.530(47)(b), F.A.C., applies.

¹These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year period.

- County: Name of county in which the system resides.
- Name: Stream name that LAKEWATCH uses for the system.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- Period of Record (years): Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

Table 2. Base File Data.

County	Alachua
Name	Santa Fe River Sink-2
GNIS Number	290658
Water Body Type	River/Stream
Period of Record (years, range)	7 (2015 to 2021)
Latitude	29.9122
Longitude	-82.5730

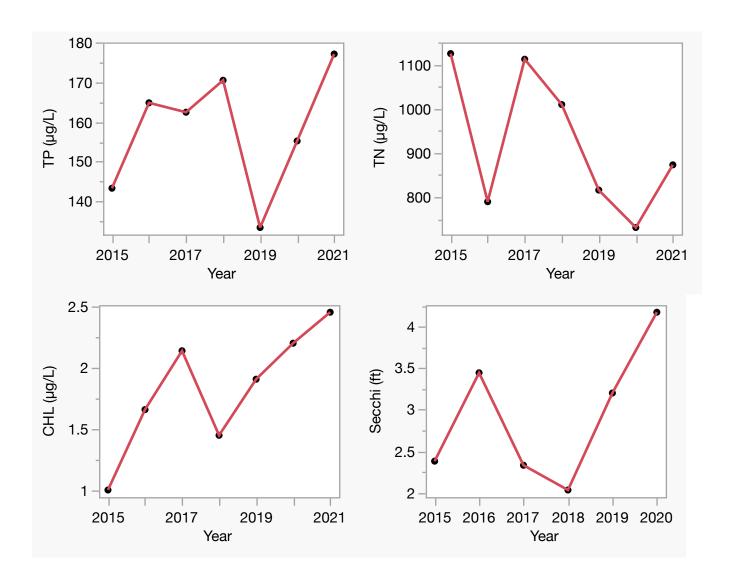
Long-Term Data for River/Streams: Definitions

- Total Phosphorus (µg/L): The nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algal population.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filter out.
- Specific Conductance (µS/cm@25°C): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 3. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance (collected quarterly).

Parameter	Minimum and Maximum	Grand Geometric Mean
	Annual Geometric Means	(Sampling years)
Total Phosphorus (µg/L)	133 - 177	157 (7)
Total Nitrogen (µg/L)	731 - 1125	911 (7)
Chlorophyll- uncorrected (µg/L)	1 - 2	2 (7)
Secchi (ft)	2.0 - 4.2	2.8 (6)
Secchi (m)	0.6 -1.3	0.9 (6)
Color (Pt-Co Units)	89 - 381	184 (7)
Specific Conductance (µS/cm@25 C)	108 - 217	161 (7)

Figure 2. Santa Fe River Sink-2 trend plots of year by average. The R^2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R^2 the stronger the relation) and the p value indicates if the relation is significant (p < 0.05 is significant). Total phosphorus (TP No Trend, $R^2 = 0.07$, p = 0.56), total nitrogen (TN No Trend, $R^2 = 0.32$, p = 0.19), chlorophyll (CHL Increasing, $R^2 = 0.65$, p = 0.03) and Secchi depth (Secchi No Trend, $R^2 = 0.27$, p = 0.29).



LAKEWATCH Report for Turkey Creek-1 in Alachua County Watershed Region: North Central Using Data Downloaded 12/9/22

Introduction for River/Streams

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data geometric means and ranges and the final part are the trend plots for nutrients, chlorophyll and Secchi depth. Plots were only made for systems with five or more years of data.



Figure 1. Map showing nutrient thresholds areas for streams set forth by FDEP.

Table 1. The nutrient thresholds for streams are listed in table below along with the map showing zones.

Nutrient Watershed	Total Phosphorus Nutrient	Total Nitrogen Nutrient Threshold ¹
Region	Threshold ¹	-
Panhandle West	60 μg/L	670 μg/L
Panhandle East	180 μg/L	1030 μg/L
North Central	300 μ/L	1870 μg/L
Peninsular	120 μg/L	1540 μg/L
West Central	490 μg/L	1650 μg/L
South Florida	No numeric nutrient threshold. The	No numeric nutrient threshold. The
	narrative criterion in paragraph 62-	narrative criterion in paragraph 62-
	302.530(47)(b), F.A.C., applies.	302.530(47)(b), F.A.C., applies.

¹These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year period.

- County: Name of county in which the system resides.
- Name: Stream name that LAKEWATCH uses for the system.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- **Period of Record (years)**: Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

Table 2. Base File Data.

County	Alachua
Name	Turkey Creek-1
GNIS Number	292515
Water Body Type	River/Stream
Period of Record (years, range)	9 (2014 to 2022)
Latitude	29.7586
Longitude	-82.4226

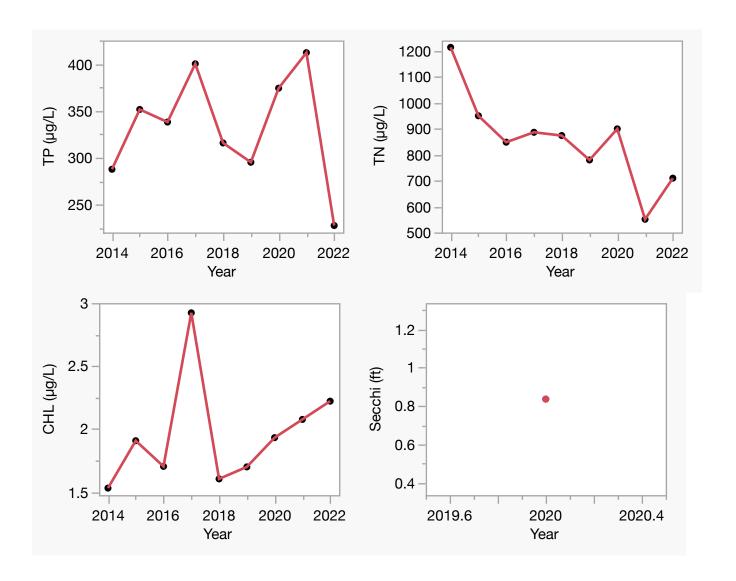
Long-Term Data for River/Streams: Definitions

- Total Phosphorus (µg/L): The nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algal population.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filter out.
- Specific Conductance (µS/cm@25°C): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 3. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance (collected quarterly).

Parameter	Minimum and Maximum	Grand Geometric Mean
	Annual Geometric Means	(Sampling years)
Total Phosphorus (μg/L)	228 - 412	329 (9)
Total Nitrogen (µg/L)	551 - 1214	840 (9)
Chlorophyll- uncorrected (µg/L)	2 - 3	2 (9)
Secchi (ft)	0.8 - 0.8	0.8 (1)
Secchi (m)	0.3 -0.3	0.3 (1)
Color (Pt-Co Units)	56 - 163	92 (9)
Specific Conductance (µS/cm@25 C)	197 - 269	236 (9)

Figure 2. Turkey Creek-1 trend plots of year by average. The R^2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R^2 the stronger the relation) and the p value indicates if the relation is significant (p < 0.05 is significant). Total phosphorus (TP No Trend, $R^2 = 0.00$, p = 0.86), total nitrogen (TN Decreasing, $R^2 = 0.66$, p = 0.01), chlorophyll (CHL No Trend, $R^2 = 0.07$, p = 0.49) and Secchi depth (Secchi No Trend, $R^2 = 0.07$).



LAKEWATCH Report for Turkey Creek-2 in Alachua County Watershed Region: North Central Using Data Downloaded 12/9/22

Introduction for River/Streams

This report summarizes data collected on systems that have been part of the LAKEWATCH program. Data are from the period of record for individual systems. The first part of this summary lists background data for each system, the second part lists the long-term data geometric means and ranges and the final part are the trend plots for nutrients, chlorophyll and Secchi depth. Plots were only made for systems with five or more years of data.



Figure 1. Map showing nutrient thresholds areas for streams set forth by FDEP.

Table 1. The nutrient thresholds for streams are listed in table below along with the map showing zones.

Nutrient Watershed	Total Phosphorus Nutrient	Total Nitrogen Nutrient Threshold ¹
Region	Threshold ¹	-
Panhandle West	60 μg/L	670 μg/L
Panhandle East	180 μg/L	1030 μg/L
North Central	300 μ/L	1870 μg/L
Peninsular	120 μg/L	1540 μg/L
West Central	490 μg/L	1650 μg/L
South Florida	No numeric nutrient threshold. The	No numeric nutrient threshold. The
	narrative criterion in paragraph 62-	narrative criterion in paragraph 62-
	302.530(47)(b), F.A.C., applies.	302.530(47)(b), F.A.C., applies.

¹These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year period.

- County: Name of county in which the system resides.
- Name: Stream name that LAKEWATCH uses for the system.
- GNIS Number: Number created by USGS's Geographic Names Information System.
- Water Body Type: Four different types of systems; lakes, estuaries, river/streams and springs.
- Period of Record (years): Number of years a system has been in the LAKEWATCH program.
- Latitude and Longitude: Coordinates identifying the exact location of station 1 for each system.

Table 2. Base File Data.

County	Alachua
Name	Turkey Creek-2
GNIS Number	292515
Water Body Type	River/Stream
Period of Record (years, range)	9 (2014 to 2022)
Latitude	29.7544
Longitude	-82.4397

Long-Term Data for River/Streams: Definitions

- Total Phosphorus (µg/L): The nutrient most often limiting growth of plant/algae.
- Total Nitrogen (µg/L): Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- Chlorophyll-uncorrected (μ g/L): Chlorophyll concentrations are used to measure relative abundances of open water algal population.
- Secchi (ft), Secchi (m): Secchi measurements are estimates of water clarity.
- Color (Pt-Co Units): LAKEWATCH measures true color, which is the color of the water after particles have been filter out.
- Specific Conductance (µS/cm@25°C): Measurement of the ability of water to conduct electricity and can be used to estimate the amount of dissolved materials in water.

Table 3. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance (collected quarterly).

Parameter	Minimum and Maximum	Grand Geometric Mean
	Annual Geometric Means	(Sampling years)
Total Phosphorus (μg/L)	264 - 465	377 (9)
Total Nitrogen (µg/L)	583 - 1166	768 (9)
Chlorophyll- uncorrected (µg/L)	1 - 2	2 (9)
Secchi (ft)	0.4 - 0.4	0.4(1)
Secchi (m)	0.1 -0.1	0.1 (1)
Color (Pt-Co Units)	65 - 166	93 (9)
Specific Conductance (µS/cm@25 C)	196 - 274	236 (9)

Figure 2. Turkey Creek-2 trend plots of year by average. The R^2 value indicates the strength of the relations (ranges from 0.0 to 1.0; higher the R^2 the stronger the relation) and the p value indicates if the relation is significant (p < 0.05 is significant). Total phosphorus (TP No Trend, $R^2 = 0.04$, p = 0.62), total nitrogen (TN Decreasing, $R^2 = 0.76$, p = 0.00), chlorophyll (CHL No Trend, $R^2 = 0.43$, p = 0.06) and Secchi depth (Secchi No Trend, $R^2 = 0.9$).

