

**LAKEWATCH Report for Brushy Creek-SR64 in Hardee County**  
**Watershed Region: West 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.**

For decades Florida has had a narrative nutrient water quality criterion in place to protect Florida’s waters against nutrient over-enrichment. In 2009, the Florida Department of Environmental Protection (FDEP) initiated rulemaking and, by 2011, adopted what would be the first set of statewide numeric nutrient standards for Florida’s waters. By 2015, almost all the remaining waters in Florida have numeric nutrient standards (see for FDEP Regulation Nutrient Criteria’s for: Streams, spring vents: <https://www.flrules.org/gateway/RuleNo.asp?title=SURFACE%20WATER%20QUALITY%20STANDARDS&ID=62-302.531>).



**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 Region	Total Phosphorus Nutrient Threshold <sup>1</sup>	Total Nitrogen Nutrient Threshold <sup>1</sup>
Panhandle West	60 µg/L	670 µg/L
Panhandle East	180 µg/L	1030 µg/L
North Central	300 µg/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 narrative criterion in paragraph 62-302.530(47)(b), F.A.C., applies.	No numeric nutrient threshold. The narrative criterion in paragraph 62-302.530(47)(b), F.A.C., applies.

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

## Base File Data for River/Streams: Definitions

- **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	Hardee
Name	Brushy Creek-SR64
GNIS Number	279518
Water Body Type	River/Stream
Period of Record (years, range)	2 (2007 to 2008)
Latitude	27.4848
Longitude	-81.9677

## Long-Term Data for River/Streams: Definitions

The following long-term data are the primary trophic state parameters collected by LAKEWATCH volunteers and classification variables color and specific conductance (LAKEWATCH recently began analyzing samples quarterly for color and specific conductance):

- **Total Phosphorus ( $\mu\text{g/L}$ ):** The nutrient most often limiting growth of plant/algae.
- **Total Nitrogen ( $\mu\text{g/L}$ ):** Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- **Chlorophyll-uncorrected ( $\mu\text{g/L}$ ):** 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 ( $\mu\text{S/cm@25}^\circ\text{C}$ ):** 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 Annual Geometric Means	Grand Geometric Mean (Sampling years)
Total Phosphorus ( $\mu\text{g/L}$ )	50 - 1195	244 (2)
Total Nitrogen ( $\mu\text{g/L}$ )	851 - 3290	1673 (2)
Chlorophyll- uncorrected ( $\mu\text{g/L}$ )	2 - 9	4 (2)
Secchi (ft)	2.0 - 2.0	2.0 (1)
Secchi (m)	0.6 -0.6	0.6 (1)
Color (Pt-Co Units)	48 - 644	176 (2)
Specific Conductance ( $\mu\text{S/cm@25 C}$ )	-	(0)

**LAKEWATCH Report for Charlie Creek-SR64 in Hardee County**  
**Watershed Region: West Central**  
**Using Data Downloaded 12/9/22**

**Introduction for River/Streams**

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

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## Base File Data for River/Streams: Definitions

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**Table 2. Base File Data.**

County	Hardee
Name	Charlie Creek-SR64
GNIS Number	
Water Body Type	River/Stream
Period of Record (years, range)	2 (2007 to 2008)
Latitude	27.5650
Longitude	-81.6377

## Long-Term Data for River/Streams: Definitions

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- **Chlorophyll-uncorrected ( $\mu\text{g/L}$ ):** 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.
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**Table 3. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance (collected quarterly).**

Parameter	Minimum and Maximum Annual Geometric Means	Grand Geometric Mean (Sampling years)
Total Phosphorus ( $\mu\text{g/L}$ )	238 - 820	441 (2)
Total Nitrogen ( $\mu\text{g/L}$ )	1649 - 3107	2264 (2)
Chlorophyll- uncorrected ( $\mu\text{g/L}$ )	5 - 41	15 (2)
Secchi (ft)	1.8 - 3.0	2.3 (2)
Secchi (m)	0.5 -0.9	0.7 (2)
Color (Pt-Co Units)	123 - 409	224 (2)
Specific Conductance ( $\mu\text{S/cm@25 C}$ )	-	(0)

**LAKEWATCH Report for Charlie Creek-SR66 in Hardee County**  
**Watershed Region: West Central**  
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**Table 2. Base File Data.**

County	Hardee
Name	Charlie Creek-SR66
GNIS Number	280322
Water Body Type	River/Stream
Period of Record (years, range)	2 (2007 to 2008)
Latitude	27.4584
Longitude	-81.6786

## Long-Term Data for River/Streams: Definitions

The following long-term data are the primary trophic state parameters collected by LAKEWATCH volunteers and classification variables color and specific conductance (LAKEWATCH recently began analyzing samples quarterly for color and specific conductance):

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- **Chlorophyll-uncorrected ( $\mu\text{g/L}$ ):** 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 ( $\mu\text{S/cm@25}^\circ\text{C}$ ):** 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 Annual Geometric Means	Grand Geometric Mean (Sampling years)
Total Phosphorus ( $\mu\text{g/L}$ )	282 - 412	341 (2)
Total Nitrogen ( $\mu\text{g/L}$ )	1299 - 1696	1485 (2)
Chlorophyll- uncorrected ( $\mu\text{g/L}$ )	6 - 11	8 (2)
Secchi (ft)	1.1 - 2.0	1.5 (2)
Secchi (m)	0.3 -0.6	0.5 (2)
Color (Pt-Co Units)	169 - 205	186 (2)
Specific Conductance ( $\mu\text{S/cm@25 C}$ )	-	(0)

**LAKEWATCH Report for Hickory Creek-CR661 in Hardee County**  
**Watershed Region: West Central**  
**Using Data Downloaded 12/9/22**

**Introduction for River/Streams**

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

Nutrient Watershed Region	Total Phosphorus Nutrient Threshold <sup>1</sup>	Total Nitrogen Nutrient Threshold <sup>1</sup>
Panhandle West	60 µg/L	670 µg/L
Panhandle East	180 µg/L	1030 µg/L
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South Florida	No numeric nutrient threshold. The narrative criterion in paragraph 62-302.530(47)(b), F.A.C., applies.	No numeric nutrient threshold. The narrative criterion in paragraph 62-302.530(47)(b), F.A.C., applies.

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## Base File Data for River/Streams: Definitions

- **County:** Name of county in which the system resides.
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**Table 2. Base File Data.**

County	Hardee
Name	Hickory Creek-CR661
GNIS Number	283951
Water Body Type	River/Stream
Period of Record (years, range)	2 (2007 to 2008)
Latitude	27.4435
Longitude	-81.8750

## Long-Term Data for River/Streams: Definitions

The following long-term data are the primary trophic state parameters collected by LAKEWATCH volunteers and classification variables color and specific conductance (LAKEWATCH recently began analyzing samples quarterly for color and specific conductance):

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- **Chlorophyll-uncorrected ( $\mu\text{g/L}$ ):** 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 ( $\mu\text{S/cm@25}^\circ\text{C}$ ):** 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 Annual Geometric Means	Grand Geometric Mean (Sampling years)
Total Phosphorus ( $\mu\text{g/L}$ )	782 - 821	801 (2)
Total Nitrogen ( $\mu\text{g/L}$ )	530 - 2241	1090 (2)
Chlorophyll- uncorrected ( $\mu\text{g/L}$ )	2 - 4	3 (2)
Secchi (ft)	-	(0)
Secchi (m)	-	(0)
Color (Pt-Co Units)	22 - 323	84 (2)
Specific Conductance ( $\mu\text{S/cm@25 C}$ )	-	(0)

**LAKEWATCH Report for Oak Creek-CR634 in Hardee County**  
**Watershed Region: West 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.**

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South Florida	No numeric nutrient threshold. The narrative criterion in paragraph 62-302.530(47)(b), F.A.C., applies.	No numeric nutrient threshold. The narrative criterion in paragraph 62-302.530(47)(b), F.A.C., applies.

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## Base File Data for River/Streams: Definitions

- **County:** Name of county in which the system resides.
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- **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	Hardee
Name	Oak Creek-CR634
GNIS Number	294281
Water Body Type	River/Stream
Period of Record (years, range)	2 (2007 to 2008)
Latitude	27.3996
Longitude	-81.6152

## Long-Term Data for River/Streams: Definitions

The following long-term data are the primary trophic state parameters collected by LAKEWATCH volunteers and classification variables color and specific conductance (LAKEWATCH recently began analyzing samples quarterly for color and specific conductance):

- **Total Phosphorus ( $\mu\text{g/L}$ ):** The nutrient most often limiting growth of plant/algae.
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Parameter	Minimum and Maximum Annual Geometric Means	Grand Geometric Mean (Sampling years)
Total Phosphorus ( $\mu\text{g/L}$ )	112 - 243	165 (2)
Total Nitrogen ( $\mu\text{g/L}$ )	1554 - 1789	1667 (2)
Chlorophyll- uncorrected ( $\mu\text{g/L}$ )	7 - 8	7 (2)
Secchi (ft)	2.4 - 2.6	2.5 (2)
Secchi (m)	0.7 -0.8	0.8 (2)
Color (Pt-Co Units)	151 - 165	158 (2)
Specific Conductance ( $\mu\text{S/cm@25 C}$ )	-	(0)

**LAKEWATCH Report for Oak Creek-CR661 in Hardee County**  
**Watershed Region: West Central**  
**Using Data Downloaded 12/9/22**

**Introduction for River/Streams**

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**Table 2. Base File Data.**

County	Hardee
Name	Oak Creek-CR661
GNIS Number	287926
Water Body Type	River/Stream
Period of Record (years, range)	2 (2007 to 2008)
Latitude	27.4151
Longitude	-81.8822

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Parameter	Minimum and Maximum Annual Geometric Means	Grand Geometric Mean (Sampling years)
Total Phosphorus ( $\mu\text{g/L}$ )	428 - 705	550 (2)
Total Nitrogen ( $\mu\text{g/L}$ )	1129 - 1346	1233 (2)
Chlorophyll- uncorrected ( $\mu\text{g/L}$ )	1 - 2	1 (2)
Secchi (ft)	3.0 - 3.0	3.0 (1)
Secchi (m)	0.9 -0.9	0.9 (1)
Color (Pt-Co Units)	52 - 117	78 (2)
Specific Conductance ( $\mu\text{S/cm@25 C}$ )	-	(0)

**LAKEWATCH Report for Peace River-CLR in Hardee County**  
**Watershed Region: West Central**  
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**Introduction for River/Streams**

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## Base File Data for River/Streams: Definitions

- **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	Hardee
Name	Peace River-CLR
GNIS Number	294288
Water Body Type	River/Stream
Period of Record (years, range)	2 (2007 to 2008)
Latitude	27.6462
Longitude	-81.8022

## Long-Term Data for River/Streams: Definitions

The following long-term data are the primary trophic state parameters collected by LAKEWATCH volunteers and classification variables color and specific conductance (LAKEWATCH recently began analyzing samples quarterly for color and specific conductance):

- **Total Phosphorus ( $\mu\text{g/L}$ ):** The nutrient most often limiting growth of plant/algae.
- **Total Nitrogen ( $\mu\text{g/L}$ ):** Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- **Chlorophyll-uncorrected ( $\mu\text{g/L}$ ):** 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 ( $\mu\text{S/cm@25}^\circ\text{C}$ ):** 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 Annual Geometric Means	Grand Geometric Mean (Sampling years)
Total Phosphorus ( $\mu\text{g/L}$ )	2428 - 3062	2727 (2)
Total Nitrogen ( $\mu\text{g/L}$ )	1322 - 1729	1512 (2)
Chlorophyll- uncorrected ( $\mu\text{g/L}$ )	4 - 7	6 (2)
Secchi (ft)	3.0 - 3.0	3.0 (1)
Secchi (m)	0.9 -0.9	0.9 (1)
Color (Pt-Co Units)	52 - 73	61 (2)
Specific Conductance ( $\mu\text{S/cm@25 C}$ )	-	(0)

**LAKEWATCH Report for Troublesome Creek-SR64 in Hardee County**  
**Watershed Region: West 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.**

For decades Florida has had a narrative nutrient water quality criterion in place to protect Florida’s waters against nutrient over-enrichment. In 2009, the Florida Department of Environmental Protection (FDEP) initiated rulemaking and, by 2011, adopted what would be the first set of statewide numeric nutrient standards for Florida’s waters. By 2015, almost all the remaining waters in Florida have numeric nutrient standards (see for FDEP Regulation Nutrient Criteria’s for: Streams, spring vents: <https://www.flrules.org/gateway/RuleNo.asp?title=SURFACE%20WATER%20QUALITY%20STANDARDS&ID=62-302.531>).



**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 Region	Total Phosphorus Nutrient Threshold <sup>1</sup>	Total Nitrogen Nutrient Threshold <sup>1</sup>
Panhandle West	60 µg/L	670 µg/L
Panhandle East	180 µg/L	1030 µg/L
North Central	300 µg/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 narrative criterion in paragraph 62-302.530(47)(b), F.A.C., applies.	No numeric nutrient threshold. The narrative criterion in paragraph 62-302.530(47)(b), F.A.C., applies.

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

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- **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	Hardee
Name	Troublesome Creek-SR64
GNIS Number	292459
Water Body Type	River/Stream
Period of Record (years, range)	2 (2007 to 2008)
Latitude	27.4822
Longitude	-81.8618

## Long-Term Data for River/Streams: Definitions

The following long-term data are the primary trophic state parameters collected by LAKEWATCH volunteers and classification variables color and specific conductance (LAKEWATCH recently began analyzing samples quarterly for color and specific conductance):

- **Total Phosphorus ( $\mu\text{g/L}$ ):** The nutrient most often limiting growth of plant/algae.
- **Total Nitrogen ( $\mu\text{g/L}$ ):** Another nutrient needed for aquatic plant/algae growth but only limiting when nitrogen to phosphorus ratios are generally less than 10.
- **Chlorophyll-uncorrected ( $\mu\text{g/L}$ ):** Chlorophyll concentrations are used to measure relative abundances of open water algal population.
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**Table 3. Long-term trophic state data collected monthly by LAKEWATCH volunteers and color and specific conductance (collected quarterly).**

Parameter	Minimum and Maximum Annual Geometric Means	Grand Geometric Mean (Sampling years)
Total Phosphorus ( $\mu\text{g/L}$ )	528 - 718	615 (2)
Total Nitrogen ( $\mu\text{g/L}$ )	3371 - 3758	3559 (2)
Chlorophyll- uncorrected ( $\mu\text{g/L}$ )	1 - 2	2 (2)
Secchi (ft)	2.5 - 2.5	2.5 (1)
Secchi (m)	0.8 -0.8	0.8 (1)
Color (Pt-Co Units)	51 - 114	76 (2)
Specific Conductance ( $\mu\text{S/cm@25 C}$ )	-	(0)