LAKEWATCH Report for Apk-Beau Canal-1 in Lake County
Watershed Region:
Using Data Downloaded 12/9/20

Introduction for River/Streams

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![Figure 1. Map showing nutrient thresholds areas for streams set forth by FDEP.](image)

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

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Base File Data for River/Streams: Definitions

- **County**: Name of county in which the system resides.
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<tbody>
<tr>
<td>Name</td>
<td>Apk-Beau Canal-1</td>
</tr>
<tr>
<td>GNIS Number</td>
<td>277922</td>
</tr>
<tr>
<td>Water Body Type</td>
<td>River/Stream</td>
</tr>
<tr>
<td>Period of Record (years, range)</td>
<td>3 (2010 to 2012)</td>
</tr>
<tr>
<td>Latitude</td>
<td>28.6806</td>
</tr>
<tr>
<td>Longitude</td>
<td>-81.6798</td>
</tr>
</tbody>
</table>

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<th>Grand Geometric Mean (Sampling years)</th>
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<tbody>
<tr>
<td>Total Phosphorus (µg/L)</td>
<td>52 - 71</td>
<td>59 (3)</td>
</tr>
<tr>
<td>Total Nitrogen (µg/L)</td>
<td>2505 - 3560</td>
<td>2972 (3)</td>
</tr>
<tr>
<td>Chlorophyll-uncorrected (µg/L)</td>
<td>16 - 33</td>
<td>23 (3)</td>
</tr>
<tr>
<td>Secchi (ft)</td>
<td>1.9 - 3.7</td>
<td>2.7 (3.0)</td>
</tr>
<tr>
<td>Secchi (m)</td>
<td>0.6 - 1.1</td>
<td>1.1 (3.0)</td>
</tr>
<tr>
<td>Color (Pt-Co Units)</td>
<td>30 - 37</td>
<td>33 (3)</td>
</tr>
<tr>
<td>Specific Conductance (µS/cm @ 25°C)</td>
<td>406 - 518</td>
<td>458 (3)</td>
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</thead>
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<td>Name</td>
<td>Apk-Beau Canal-2</td>
</tr>
<tr>
<td>GNIS Number</td>
<td>277922</td>
</tr>
<tr>
<td>Water Body Type</td>
<td>River/Stream</td>
</tr>
<tr>
<td>Period of Record (years, range)</td>
<td>3 (2010 to 2012)</td>
</tr>
<tr>
<td>Latitude</td>
<td>28.7197</td>
</tr>
<tr>
<td>Longitude</td>
<td>-81.6842</td>
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<td>48 - 77</td>
<td>60 (3)</td>
</tr>
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<td>Total Nitrogen (µg/L)</td>
<td>2412 - 3367</td>
<td>2720 (3)</td>
</tr>
<tr>
<td>Chlorophyll-uncorrected (µg/L)</td>
<td>20 - 34</td>
<td>25 (3)</td>
</tr>
<tr>
<td>Secchi (ft)</td>
<td>2.5 - 3.5</td>
<td>3.0 (3.0)</td>
</tr>
<tr>
<td>Secchi (m)</td>
<td>0.8 - 1.1</td>
<td>1.1 (3.0)</td>
</tr>
<tr>
<td>Color (Pt-Co Units)</td>
<td>32 - 38</td>
<td>34 (3)</td>
</tr>
<tr>
<td>Specific Conductance (µS/cm@25°C)</td>
<td>425 - 532</td>
<td>474 (3)</td>
</tr>
</tbody>
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LAKEWATCH Report for Apk-Beau Canal-3 in Lake County Watershed Region: Using Data Downloaded 12/9/20

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</tr>
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<td>1709 - 2233</td>
<td>1976 (3)</td>
</tr>
<tr>
<td>Chlorophyll-uncorrected (µg/L)</td>
<td>5 - 13</td>
<td>9 (3)</td>
</tr>
<tr>
<td>Secchi (ft)</td>
<td>2.2 - 2.8</td>
<td>2.5 (2.0)</td>
</tr>
<tr>
<td>Secchi (m)</td>
<td>0.7 - 0.9</td>
<td>0.9 (2.0)</td>
</tr>
<tr>
<td>Color (Pt-Co Units)</td>
<td>8 - 19</td>
<td>14 (3)</td>
</tr>
<tr>
<td>Specific Conductance (µS/cm@25°C)</td>
<td>435 - 562</td>
<td>484 (3)</td>
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<td>30 - 30</td>
<td>30 (1)</td>
</tr>
<tr>
<td>Total Nitrogen (µg/L)</td>
<td>1400 - 1400</td>
<td>1400 (1)</td>
</tr>
<tr>
<td>Chlorophyll-uncorrected (µg/L)</td>
<td>15 - 15</td>
<td>15 (1)</td>
</tr>
<tr>
<td>Secchi (ft)</td>
<td>4.0 - 4.0</td>
<td>4.0 (1.0)</td>
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<td>Secchi (m)</td>
<td>1.2 - 1.2</td>
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</tr>
<tr>
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<td>-</td>
<td>(0)</td>
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<td>-</td>
<td>(0)</td>
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Watershed Region:
Using Data Downloaded 12/9/20

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- **Latitude and Longitude**: Coordinates identifying the exact location of station 1 for each system.

Table 2. Base File Data.

| County | Lake
| Name   | Apk-Beau Canal-5
| GNIS Number | 277922
| Water Body Type | River/Stream
| Period of Record (years, range) | 1 (2018 to 2018)
| Latitude | 28.7547
| Longitude | -81.6838

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<th>Grand Geometric Mean (Sampling years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Phosphorus (µg/L)</td>
<td>26 - 26</td>
<td>26 (1)</td>
</tr>
<tr>
<td>Total Nitrogen (µg/L)</td>
<td>1430 - 1430</td>
<td>1430 (1)</td>
</tr>
<tr>
<td>Chlorophyll-uncorrected (µg/L)</td>
<td>11 - 11</td>
<td>11 (1)</td>
</tr>
<tr>
<td>Secchi (ft)</td>
<td>4.0 - 4.0</td>
<td>4.0 (1.0)</td>
</tr>
<tr>
<td>Secchi (m)</td>
<td>1.2 -1.2</td>
<td>1.2 (1.0)</td>
</tr>
<tr>
<td>Color (Pt-Co Units)</td>
<td>-</td>
<td>(0)</td>
</tr>
<tr>
<td>Specific Conductance (µS/cm@25°C)</td>
<td>-</td>
<td>(0)</td>
</tr>
</tbody>
</table>
Introduction for River/Streams

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![Figure 1. Map showing nutrient thresholds areas for streams set forth by FDEP.](image)

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<tr>
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<th>Total Nitrogen Nutrient Threshold$^1$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panhandle West</td>
<td>60 µg/L</td>
<td>670 µg/L</td>
</tr>
<tr>
<td>Panhandle East</td>
<td>180 µg/L</td>
<td>1030 µg/L</td>
</tr>
<tr>
<td>North Central</td>
<td>300 µg/L</td>
<td>1870 µg/L</td>
</tr>
<tr>
<td>Peninsular</td>
<td>120 µg/L</td>
<td>1540 µg/L</td>
</tr>
<tr>
<td>West Central</td>
<td>490 µg/L</td>
<td>1650 µg/L</td>
</tr>
</tbody>
</table>

$^1$These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year periods.
**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.
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Table 2. Base File Data.

<table>
<thead>
<tr>
<th>County</th>
<th>Lake</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Apk-Beau Canal-6</td>
</tr>
<tr>
<td>GNIS Number</td>
<td>277922</td>
</tr>
<tr>
<td>Water Body Type</td>
<td>River/Stream</td>
</tr>
<tr>
<td>Period of Record (years, range)</td>
<td>1 (2018 to 2018)</td>
</tr>
<tr>
<td>Latitude</td>
<td>28.7660</td>
</tr>
<tr>
<td>Longitude</td>
<td>-81.6759</td>
</tr>
</tbody>
</table>

**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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<tr>
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<th>Minimum and Maximum Annual Geometric Means</th>
<th>Grand Geometric Mean (Sampling years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Phosphorus (µg/L)</td>
<td>40 - 40</td>
<td>40 (1)</td>
</tr>
<tr>
<td>Total Nitrogen (µg/L)</td>
<td>1410 - 1410</td>
<td>1410 (1)</td>
</tr>
<tr>
<td>Chlorophyll-uncorrected (µg/L)</td>
<td>10 - 10</td>
<td>10 (1)</td>
</tr>
<tr>
<td>Secchi (ft)</td>
<td>4.0 - 4.0</td>
<td>4.0 (1.0)</td>
</tr>
<tr>
<td>Secchi (m)</td>
<td>1.2 -1.2</td>
<td>1.2 (1.0)</td>
</tr>
<tr>
<td>Color (Pt-Co Units)</td>
<td>-</td>
<td>(0)</td>
</tr>
<tr>
<td>Specific Conductance (µS/cm@25°C)</td>
<td>-</td>
<td>(0)</td>
</tr>
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</table>
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Table 1. The nutrient thresholds for streams are listed in table below along with the map showing zones.

<table>
<thead>
<tr>
<th>Nutrient Watershed Region</th>
<th>Total Phosphorus Nutrient Threshold&lt;sup&gt;1&lt;/sup&gt;</th>
<th>Total Nitrogen Nutrient Threshold&lt;sup&gt;1&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panhandle West</td>
<td>60 µg/L</td>
<td>670 µg/L</td>
</tr>
<tr>
<td>Panhandle East</td>
<td>180 µg/L</td>
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</tr>
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<td>300 µg/L</td>
<td>1870 µg/L</td>
</tr>
<tr>
<td>Peninsular</td>
<td>120 µg/L</td>
<td>1540 µg/L</td>
</tr>
<tr>
<td>West Central</td>
<td>490 µg/L</td>
<td>1650 µg/L</td>
</tr>
</tbody>
</table>

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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.

<table>
<thead>
<tr>
<th>County</th>
<th>Lake</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Dead River-1</td>
</tr>
<tr>
<td>GNIS Number</td>
<td>281384</td>
</tr>
<tr>
<td>Water Body Type</td>
<td>River/Stream</td>
</tr>
<tr>
<td>Period of Record (years, range)</td>
<td>18 (2003 to 2020)</td>
</tr>
<tr>
<td>Latitude</td>
<td>28.8126</td>
</tr>
<tr>
<td>Longitude</td>
<td>-81.7701</td>
</tr>
</tbody>
</table>

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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<th>Minimum and Maximum Annual Geometric Means</th>
<th>Grand Geometric Mean (Sampling years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Phosphorus (µg/L)</td>
<td>22 - 45</td>
<td>29 (18)</td>
</tr>
<tr>
<td>Total Nitrogen (µg/L)</td>
<td>1162 - 2048</td>
<td>1490 (18)</td>
</tr>
<tr>
<td>Chlorophyll-uncorrected (µg/L)</td>
<td>16 - 69</td>
<td>29 (18)</td>
</tr>
<tr>
<td>Secchi (ft)</td>
<td>1.5 - 3.5</td>
<td>2.5 (18.0)</td>
</tr>
<tr>
<td>Secchi (m)</td>
<td>0.4 - 1.1</td>
<td>1.1 (18.0)</td>
</tr>
<tr>
<td>Color (Pt-Co Units)</td>
<td>9 - 454</td>
<td>21 (15)</td>
</tr>
<tr>
<td>Specific Conductance (µS/cm@25°C)</td>
<td>192 - 305</td>
<td>243 (12)</td>
</tr>
</tbody>
</table>
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<th>Total Nitrogen Nutrient Threshold(^1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panhandle West</td>
<td>60 µg/L</td>
<td>670 µg/L</td>
</tr>
<tr>
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</tr>
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<td>300 µg/L</td>
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</tr>
<tr>
<td>Peninsular</td>
<td>120 µg/L</td>
<td>1540 µg/L</td>
</tr>
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<td>West Central</td>
<td>490 µg/L</td>
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<table>
<thead>
<tr>
<th>County</th>
<th>Lake</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Dead River-2</td>
</tr>
<tr>
<td>GNIS Number</td>
<td>281384</td>
</tr>
<tr>
<td>Water Body Type</td>
<td>River/Stream</td>
</tr>
<tr>
<td>Period of Record (years, range)</td>
<td>18 (2003 to 2020)</td>
</tr>
<tr>
<td>Latitude</td>
<td>28.8133</td>
</tr>
<tr>
<td>Longitude</td>
<td>-81.7644</td>
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</tr>
</thead>
<tbody>
<tr>
<td>Total Phosphorus (µg/L)</td>
<td>22 - 48</td>
<td>29 (18)</td>
</tr>
<tr>
<td>Total Nitrogen (µg/L)</td>
<td>1160 - 2172</td>
<td>1521 (18)</td>
</tr>
<tr>
<td>Chlorophyll-uncorrected (µg/L)</td>
<td>15 - 59</td>
<td>29 (18)</td>
</tr>
<tr>
<td>Secchi (ft)</td>
<td>1.8 - 3.2</td>
<td>2.5 (18.0)</td>
</tr>
<tr>
<td>Secchi (m)</td>
<td>0.5 - 1.0</td>
<td>1.0 (18.0)</td>
</tr>
<tr>
<td>Color (Pt-Co Units)</td>
<td>10 - 33</td>
<td>17 (14)</td>
</tr>
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<td>124 - 293</td>
<td>247 (11)</td>
</tr>
</tbody>
</table>
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LAKEWATCH Report for Dead River-3 in Lake County
Watershed Region: Peninsular
Using Data Downloaded 12/9/20

Introduction for River/Streams

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<td>North Central</td>
<td>300 µg/L</td>
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</tr>
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<td>120 µg/L</td>
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<tr>
<td>West Central</td>
<td>490 µg/L</td>
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</tbody>
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Base File Data for River/Streams: Definitions

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Table 2. Base File Data.

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<tr>
<th>County</th>
<th>Lake</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Dead River-3</td>
</tr>
<tr>
<td>GNIS Number</td>
<td>281384</td>
</tr>
<tr>
<td>Water Body Type</td>
<td>River/Stream</td>
</tr>
<tr>
<td>Period of Record (years, range)</td>
<td>18 (2003 to 2020)</td>
</tr>
<tr>
<td>Latitude</td>
<td>28.8189</td>
</tr>
<tr>
<td>Longitude</td>
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</tr>
</thead>
<tbody>
<tr>
<td>Total Phosphorus (µg/L)</td>
<td>22 - 56</td>
<td>32 (18)</td>
</tr>
<tr>
<td>Total Nitrogen (µg/L)</td>
<td>1181 - 2410</td>
<td>1605 (18)</td>
</tr>
<tr>
<td>Chlorophyll-uncorrected (µg/L)</td>
<td>17 - 88</td>
<td>30 (18)</td>
</tr>
<tr>
<td>Secchi (ft)</td>
<td>1.3 - 3.3</td>
<td>2.3 (18.0)</td>
</tr>
<tr>
<td>Secchi (m)</td>
<td>0.4 - 1.0</td>
<td>1.0 (18.0)</td>
</tr>
<tr>
<td>Color (Pt-Co Units)</td>
<td>8 - 31</td>
<td>15 (14)</td>
</tr>
<tr>
<td>Specific Conductance (µS/cm@25°C)</td>
<td>148 - 327</td>
<td>261 (11)</td>
</tr>
</tbody>
</table>
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LAKEWATCH Report for Haines Creek-1 in Lake County
Watershed Region: Peninsular
Using Data Downloaded 12/9/20

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](https://www.flrules.org/gateway/RuleNo.asp?title=SURFACE%20WATER%20QUALITY%20STANDARDS&ID=62-302.531)).

![Map showing nutrient thresholds areas for streams set forth by FDEP.](image)

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.

<table>
<thead>
<tr>
<th>Nutrient Watershed Region</th>
<th>Total Phosphorus Nutrient Threshold¹</th>
<th>Total Nitrogen Nutrient Threshold¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panhandle West</td>
<td>60 µg/L</td>
<td>670 µg/L</td>
</tr>
<tr>
<td>Panhandle East</td>
<td>180 µg/L</td>
<td>1030 µg/L</td>
</tr>
<tr>
<td>North Central</td>
<td>300 µg/L</td>
<td>1870 µg/L</td>
</tr>
<tr>
<td>Peninsular</td>
<td>120 µg/L</td>
<td>1540 µg/L</td>
</tr>
<tr>
<td>West Central</td>
<td>490 µg/L</td>
<td>1650 µg/L</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>County</th>
<th>Lake</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Haines Creek-1</td>
</tr>
<tr>
<td>GNIS Number</td>
<td>305779</td>
</tr>
<tr>
<td>Water Body Type</td>
<td>River/Stream</td>
</tr>
<tr>
<td>Period of Record (years, range)</td>
<td>16 (2003 to 2018)</td>
</tr>
<tr>
<td>Latitude</td>
<td>28.8870</td>
</tr>
<tr>
<td>Longitude</td>
<td>-81.8184</td>
</tr>
</tbody>
</table>

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 (µg/L)**: The nutrient most often limiting growth of plant/algae.
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- **Chlorophyll-uncorrected (µg/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.
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- **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).

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Minimum and Maximum Annual Geometric Means</th>
<th>Grand Geometric Mean (Sampling years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Phosphorus (µg/L)</td>
<td>26 - 68</td>
<td>40 (16)</td>
</tr>
<tr>
<td>Total Nitrogen (µg/L)</td>
<td>1082 - 2591</td>
<td>1591 (16)</td>
</tr>
<tr>
<td>Chlorophyll-uncorrected (µg/L)</td>
<td>9 - 58</td>
<td>19 (16)</td>
</tr>
<tr>
<td>Secchi (ft)</td>
<td>1.6 - 5.5</td>
<td>3.3 (16.0)</td>
</tr>
<tr>
<td>Secchi (m)</td>
<td>0.5 - 1.7</td>
<td>1.7 (16.0)</td>
</tr>
<tr>
<td>Color (Pt-Co Units)</td>
<td>16 - 50</td>
<td>27 (16)</td>
</tr>
<tr>
<td>Specific Conductance (µS/cm@25°C)</td>
<td>263 - 360</td>
<td>314 (12)</td>
</tr>
</tbody>
</table>
Figure 2 and Figure 3. Trend plots of annual average total phosphorus and annual average total nitrogen versus year. 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). Trend status are reported on the plots.
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LAKEWATCH Report for Haines Creek-2 in Lake County
Watershed Region: Peninsular
Using Data Downloaded 12/9/20

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](https://www.flrules.org/gateway/RuleNo.asp?title=SURFACE%20WATER%20QUALITY%20STANDARDS&ID=62-302.531)).

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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.

<table>
<thead>
<tr>
<th>Nutrient Watershed Region</th>
<th>Total Phosphorus Nutrient Threshold¹</th>
<th>Total Nitrogen Nutrient Threshold¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panhandle West</td>
<td>60 µg/L</td>
<td>670 µg/L</td>
</tr>
<tr>
<td>Panhandle East</td>
<td>180 µg/L</td>
<td>1030 µg/L</td>
</tr>
<tr>
<td>North Central</td>
<td>300 µg/L</td>
<td>1870 µg/L</td>
</tr>
<tr>
<td>Peninsular</td>
<td>120 µg/L</td>
<td>1540 µg/L</td>
</tr>
<tr>
<td>West Central</td>
<td>490 µg/L</td>
<td>1650 µg/L</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>County</th>
<th>Haines Creek-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td></td>
</tr>
<tr>
<td>GNIS Number</td>
<td>305779</td>
</tr>
<tr>
<td>Water Body Type</td>
<td>River/Stream</td>
</tr>
<tr>
<td>Period of Record (years, range)</td>
<td>16 (2003 to 2018)</td>
</tr>
<tr>
<td>Latitude</td>
<td>28.8814</td>
</tr>
<tr>
<td>Longitude</td>
<td>-81.8074</td>
</tr>
</tbody>
</table>

**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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<th>Grand Geometric Mean (Sampling years)</th>
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<tbody>
<tr>
<td>Total Phosphorus (µg/L)</td>
<td>26 - 64</td>
<td>38 (16)</td>
</tr>
<tr>
<td>Total Nitrogen (µg/L)</td>
<td>1166 - 2627</td>
<td>1597 (16)</td>
</tr>
<tr>
<td>Chlorophyll-uncorrected (µg/L)</td>
<td>9 - 56</td>
<td>20 (16)</td>
</tr>
<tr>
<td>Secchi (ft)</td>
<td>1.6 - 4.6</td>
<td>3.1 (16.0)</td>
</tr>
<tr>
<td>Secchi (m)</td>
<td>0.5 - 1.4</td>
<td>1.4 (16.0)</td>
</tr>
<tr>
<td>Color (Pt-Co Units)</td>
<td>17 - 37</td>
<td>26 (16)</td>
</tr>
<tr>
<td>Specific Conductance (µS/cm@25°C)</td>
<td>235 - 361</td>
<td>303 (12)</td>
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</tbody>
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LAKEWATCH Report for Haines Creek-3 in Lake County
Watershed Region: Peninsular
Using Data Downloaded 12/9/20

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<td>1870 µg/L</td>
</tr>
<tr>
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<td>120 µg/L</td>
<td>1540 µg/L</td>
</tr>
<tr>
<td>West Central</td>
<td>490 µg/L</td>
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<thead>
<tr>
<th>County</th>
<th>Lake</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>Haines Creek-3</td>
</tr>
<tr>
<td>GNIS Number</td>
<td>305779</td>
</tr>
<tr>
<td>Water Body Type</td>
<td>River/Stream</td>
</tr>
<tr>
<td>Period of Record (years, range)</td>
<td>16 (2003 to 2018)</td>
</tr>
<tr>
<td>Latitude</td>
<td>28.8564</td>
</tr>
<tr>
<td>Longitude</td>
<td>-81.7679</td>
</tr>
</tbody>
</table>

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<td>32 (16)</td>
</tr>
<tr>
<td>Total Nitrogen (µg/L)</td>
<td>1272 - 2860</td>
<td>1736 (16)</td>
</tr>
<tr>
<td>Chlorophyll-uncorrected (µg/L)</td>
<td>15 - 71</td>
<td>26 (16)</td>
</tr>
<tr>
<td>Secchi (ft)</td>
<td>1.3 - 3.7</td>
<td>2.6 (16.0)</td>
</tr>
<tr>
<td>Secchi (m)</td>
<td>0.4 - 1.1</td>
<td>1.1 (16.0)</td>
</tr>
<tr>
<td>Color (Pt-Co Units)</td>
<td>7 - 30</td>
<td>18 (16)</td>
</tr>
<tr>
<td>Specific Conductance (µS/cm@25°C)</td>
<td>253 - 356</td>
<td>300 (12)</td>
</tr>
</tbody>
</table>
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LAKEWATCH Report for Haines Creek-4 in Lake County
Watershed Region: Peninsular
Using Data Downloaded 12/9/20

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<thead>
<tr>
<th>Nutrient Watershed Region</th>
<th>Total Phosphorus Nutrient Threshold$^1$</th>
<th>Total Nitrogen Nutrient Threshold$^1$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panhandle West</td>
<td>60 µg/L</td>
<td>670 µg/L</td>
</tr>
<tr>
<td>Panhandle East</td>
<td>180 µg/L</td>
<td>1030 µg/L</td>
</tr>
<tr>
<td>North Central</td>
<td>300 µg/L</td>
<td>1870 µg/L</td>
</tr>
<tr>
<td>Peninsular</td>
<td>120 µg/L</td>
<td>1540 µg/L</td>
</tr>
<tr>
<td>West Central</td>
<td>490 µg/L</td>
<td>1650 µg/L</td>
</tr>
</tbody>
</table>

$^1$These values are annual geometric mean concentrations not to be exceeded more than once in any three calendar year periods.
Base File Data for River/Streams: Definitions

- **County**: Name of county in which the system resides.
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- **Latitude and Longitude**: Coordinates identifying the exact location of station 1 for each system.

Table 2. Base File Data.

<table>
<thead>
<tr>
<th>County</th>
<th>Name</th>
<th>GNIS Number</th>
<th>Water Body Type</th>
<th>Period of Record (years, range)</th>
<th>Latitude</th>
<th>Longitude</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lake</td>
<td>Haines Creek-4</td>
<td>305779</td>
<td>River/Stream</td>
<td>16 (2003 to 2018)</td>
<td>28.8665</td>
<td>-81.7748</td>
</tr>
</tbody>
</table>

Long-Term Data for River/Streams: Definitions

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<tr>
<th>Parameter</th>
<th>Minimum and Maximum Annual Geometric Means</th>
<th>Grand Geometric Mean (Sampling years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Phosphorus (µg/L)</td>
<td>21 - 57</td>
<td>32 (16)</td>
</tr>
<tr>
<td>Total Nitrogen (µg/L)</td>
<td>1214 - 2593</td>
<td>1657 (16)</td>
</tr>
<tr>
<td>Chlorophyll-uncorrected (µg/L)</td>
<td>12 - 63</td>
<td>23 (16)</td>
</tr>
<tr>
<td>Secchi (ft)</td>
<td>1.6 - 4.7</td>
<td>3.0 (16.0)</td>
</tr>
<tr>
<td>Secchi (m)</td>
<td>0.5 - 1.4</td>
<td>1.4 (16.0)</td>
</tr>
<tr>
<td>Color (Pt-Co Units)</td>
<td>14 - 36</td>
<td>23 (16)</td>
</tr>
<tr>
<td>Specific Conductance (µS/cm@25°C)</td>
<td>247 - 358</td>
<td>309 (12)</td>
</tr>
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