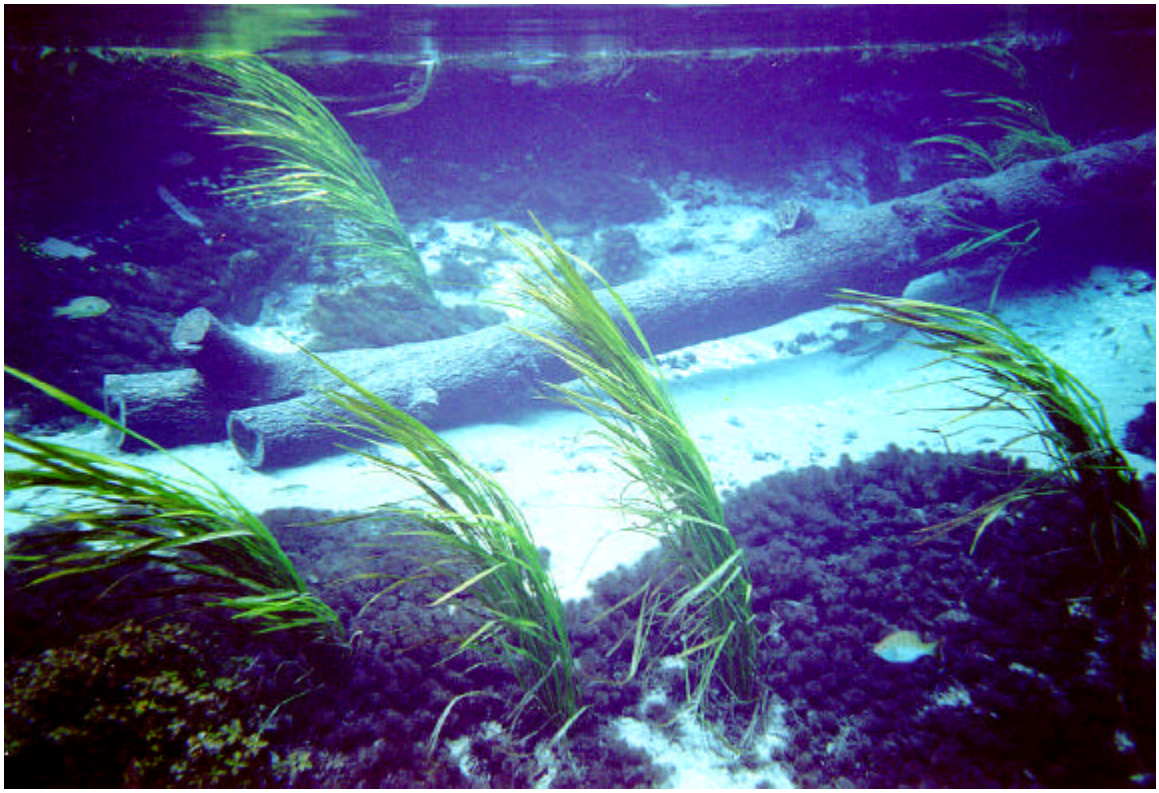
Springs of the Suwannee River Basin in Florida



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WR99-02

Springs of the Suwannee River Basin in Florida

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Acknowledgements

Over 27 years ago, the “Springs of Florida,” a classic reference on springs by Jack Rosenau, was published. This publication attempts to honor the spirit of that publication by bringing together information on the springs of the Suwannee River Basin that will be of interest to scientists and those who simply enjoy the beauty and mystique of springs.

We would like to express our appreciation to several people who helped make this report a reality: Wes Skiles of Karst Environmental Services for providing the cave maps used in this report; Sandi Keiser and Suzanne Richardson for their technical assistance; Cindy Boyette for creation of the location maps and assistance in field locating the springs; and Ed Oaksford of the United States Geological Survey and Ed Lane of the Florida Geological Survey for providing very helpful reviews of this report.

This report was funded by the Surface Water Improvement and Management (SWIM) Program and Suwannee River Water Management District.

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Terms

cfs	cubic feet per second
mgd	million gallons per day
mg L^{-1}	milligrams per liter
SWIM	Surface Water Improvement and Management
SRWMD	Suwannee River Water Management District
USGS	United States Geological Survey
EPA	Environmental Protection Agency
H_2S	hydrogen sulfide
est.	Estimated
Boil	Water movement on the surface caused by a spring discharge
Pool area	A small natural body of water around a spring
Spring	A place where ground water flows naturally from rock or soil onto the land or into a surfacewater body
Siphon	A water conduit that is a U-shaped channel in which the water is in hydrostatic equilibrium
Run	The watercourse that emanates from a spring
NO_3-N	Nitrate-nitrogen
Head spring	The source, beginning or upper part of a spring-fed stream

Conversion

1 cfs = 0.64 mgd

°C = 0.556 x (°F - 32)

Introduction

Springs are valuable natural and scenic resources that have played an important role in North Florida's history. Native Indians located their villages near springs and many springs were used by 19th century Floridians as a source of drinking water as well as a place to take a cool swim in the summer. Some spring runs were modified to funnel the water through channels to power mills. Early in the 1900's, resorts were developed around sulfur springs due to the perceived medicinal effects of bathing in these springs. Today, springs in the region continue to attract visitors who enjoy their beauty and recreational opportunities.

In spite of the historical importance of springs to the Suwannee River Basin, only in recent times has the full geographic scope of the springs come to light. Much of the data in this report was collected from a survey of springs conducted by the Suwannee River Water Management District (SRWMD) from 1997 to 1998. As late as 1995, only 9 first magnitude springs had been reported for the Suwannee River Basin in scientific publications (Spechler and Schiffer, 1995). From this survey, we now know there are at least 18 first magnitude springs (Table 1). Of the197 springs in this report, 132 were previously unreported. These "new" springs were found by carefully surveying the river during low flow conditions.

Over two decades of monitoring the water quality of major rivers of the Suwannee River Basin indicates a statistically significant (at 95% confidence level) increasing trend in the concentration of nitrate-nitrogen (Ham and Hatzell, 1996; Hornsby and Mattson, 1998). The primary source of the nitrate-nitrogen is ground water entering the surfacewater system via springs (Hornsby and Mattson, 1998). There are areas where ground water along the Suwannee and Santa Fe river corridors has elevated concentrations of nitrate-nitrogen (Ceryak and Hornsby, 1998). While nitrate-nitrogen is not harmful to swimmers, it can be harmful to those who drink water containing concentrations greater than the Drinking Water Standard of 10 mg L^{-1}. Nitrate-nitrogen can also be harmful to rivers by promoting excessive growth of algae. A need to quantify the amount of nitrate-nitrogen moving into the system is essential. Thus, the goals of the survey were to locate as many springs in the river corridors as possible and determine the water chemistry and flow characteristics.

Survey Area

The objective of this survey was to identify as many riverine springs as possible in the Florida portion of the Suwannee River Basin (Figure 1). The main stem of the Suwannee River was surveyed from State Road 41 in Hamilton County to the Gulf of Mexico. The Santa Fe River was surveyed from the confluence with the Suwannee River to the confluence with Olustee Creek. The Withlacoochee River was surveyed from the confluence with the Suwannee River to four miles north of State Road 6.

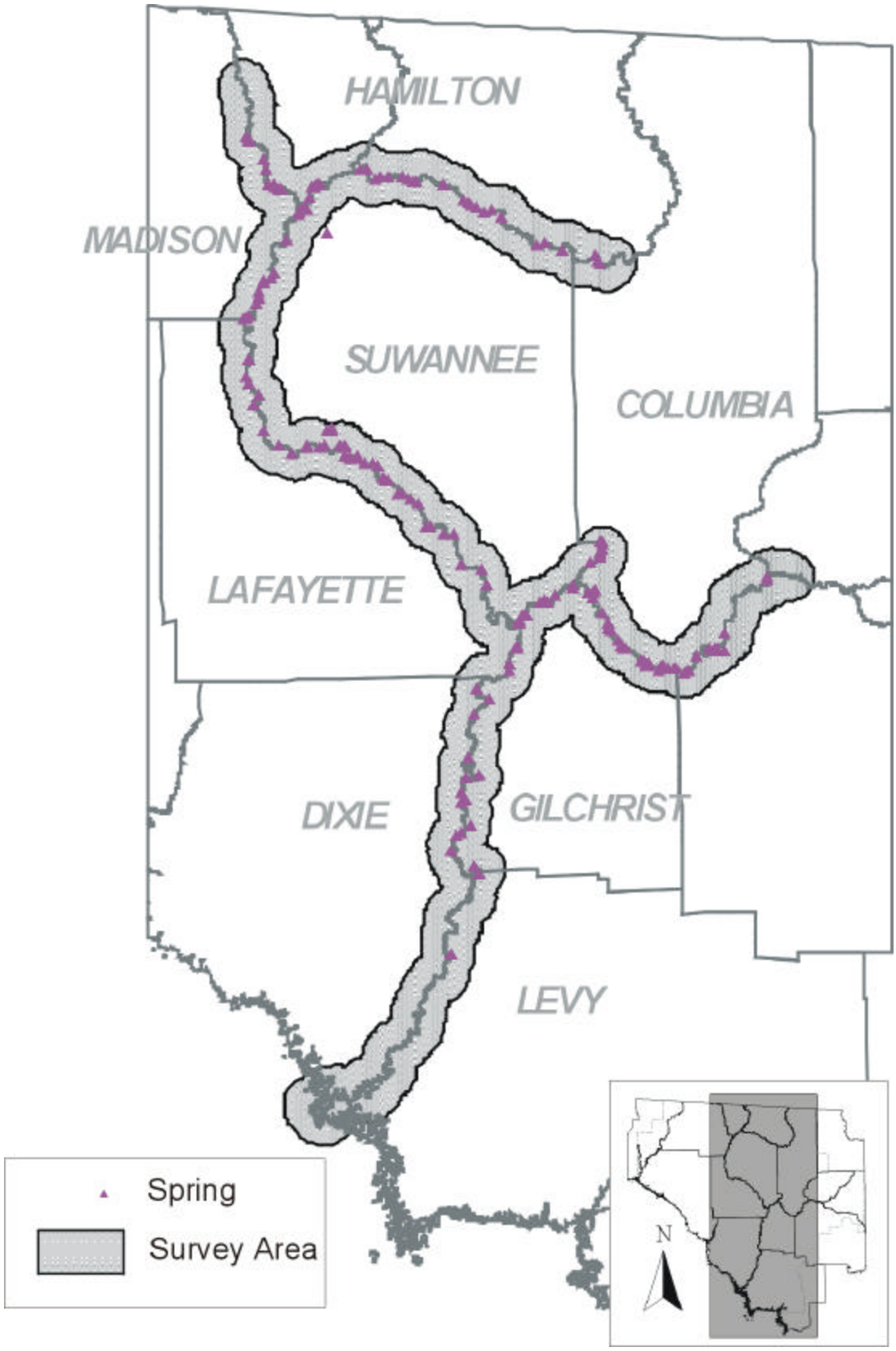

Figure 1. Surveyed Reaches in the Suwannee River Basin

Table 1. First Magnitude Springs in the Suwannee River Basin.

Name	County	Discharge (cfs)
Alapaha Rise*	Hamilton	608
Ichetucknee Springs*	Columbia	360
Holton Spring*	Hamilton	243
Manatee Spring*	Levy	178
Troy Spring*	Lafayette	152
Hornsby Spring*	Alachua	148
Falmouth Spring*	Suwannee	145
Fannin Springs*	Levy	113
Blue Spring*	Madison	106
ALA112971	Alachua	406
Blue Hole	Columbia	106
Columbia	Columbia	306
COL61981	Columbia	150
July	Columbia	117
Santa Fe Rise	Columbia	442
GIL1012973	Gilchrist	370
Blue	Lafayette	162
Lime Run Sink	Suwannee	173

* Previously cataloged in Rosenau, et al., 1977 and Spechler and Schiffer, 1995.

Classification System

Springs are classified in this report using a discharge rating system devised by the United States Geological Survey (USGS) in 1927. The system relates the discharge to a range of magnitudes (Table 2). Discharge is measured in cubic feet per second (cfs) and is reported in millions of gallons per day (mgd).

Table 2. Magnitude Classification System for Springs.

Magnitude	Average Flow
1	100 cfs or more (64 mgd)
2	10 - 100 cfs (6.4-64 mgd)
3	1 - 10 cfs (0.64-6.4 mgd)
4	0.1 - 1 cfs (0.064-0.64 mgd)

Spring Numbering Convention

A spring is considered to be cataloged if it has been cited in the “Springs of Florida” 1947 edition or 1973 edition. This survey identified a large number of uncataloged springs. Thus, the following numbering convention was used to identify the uncataloged springs. The identification number was derived by taking the first three letters of the county in which the spring was located, the date on which the spring was located, and a numeric sequence number for the order in which the spring was located on that day; for example, ALA112971, Alachua County, November 2, 1997, spring number 1.

Report Format

Each spring surveyed has an information sheet which has the following:
Spring Name (unnamed springs have identification numbers)
Spring Photo
Site Description
Information Section
- Other name(s) [if available]
- Latitude and longitude
- River basin
- County
- Historical data (printed in appendices)

Data Section (measured parameters)
Comment Section (as needed)

Physical and Chemical Parameters Presented

Specific Conductance (Sp. Conductance)

Conductivity is a measure of water's ability to conduct electrical current. Conductivity is measured in units of micromhos cm^{-1} (µmhos cm^{-1}); is related to the amount of dissolved salts (ions) in the water; and is determined by using Environmental Protection Agency (EPA) method 120.1. The SRWMD's surface waters, with generally low concentrations of dissolved salts, have lower conductivity. Ground water from the Floridan aquifer system has relatively high concentrations of dissolved salts. As ground water enters the rivers via springs and seeps, the conductivity of the river increases.

pH

pH is the negative log of the activity of hydronium ion which is a measure of the acidity or alkalinity of water. The pH is determined by using EPA method 150.1. The pH scale is 0 to 6.99 acidic, 7 neutral, and 7.01 to 14 basic. Aquatic life is greatly affected when the pH is below 3 or above 11.

Ground waters are generally basic (i.e., pH greater than 7) due to dissolution of the calcium carbonate from the carbonate rock in the Floridan aquifer system. In a natural system, pH rarely goes below 3 or above 11.

Temperature

Temperature is the degree of hotness or coldness measured on the Celsius (°C) scale and was determined by using EPA method 170.1.

The mean water temperature for ground water (spring water) is 22.2 °C, which is an approximation of the mean air temperature of the region.

Nitrate-Nitrogen (Nitrate plus Nitrite-Nitrogen [NO_3+NO_2-N])

Nitrate-nitrogen is a nutrient required by aquatic organisms for growth and reproduction. Concentration of nitrates is expressed as milligrams of nitrogen per liter of water (mg of NO_3-N L^{-1}) and was determined by using EPA method 353.3. High concentrations of nitrates may create an imbalance in a natural surfacewater system, causing algal blooms or other adverse effects. Nitrate-nitrogen concentrations that exceed the drinking water standard (10 mg of NO_3-N L^{-1}) can result in methemoglobinemia or "blue baby" syndrome in infants.

Discharge

Discharge is the measurement of the volume of water flowing past a point. Discharge is determined by multiplying the velocity of the water that passes a point by the cross-sectional area of the flowing water at that point. Discharge is measured in units of cubic feet per second (cfs).

Discharge measurements were conducted using either a Price-AA or pygmy current meter (vertical axis meters) or a Global Water velocity meter.

Vertical axis meter measurements were conducted as described in the USGS Techniques of Water Resources Investigations by Buchanon and Somers (1969). The measurements were conducted for velocities greater than or equal to 0.20 feet per second for the predominant number of sections in a measurement cross section. Water depth in the cross section was predominantly greater than 1.5 feet for AA meters and between 0.3 and 1.5 feet for pygmy measurements.

Vertical-axis meter discharge measurements were conducted such that, as a general rule, no partial section contains more than 5 percent of the flow in the stream. The two-point method was used for velocity measurement in each partial section for water depths equal to or exceeding 2.5 feet. Otherwise, the six-tenths or the three-point methods were employed as appropriate to the instrument capabilities, velocity profile characteristics, and the partial section depth. Partial section values were then summed for a discharge total for the cross section. Measurements conducted in this manner have an estimated accuracy range of ± 5 to 15 percent of actual discharge.

For the velocity meter, a comparable technique was employed in that partial sections were measured. To obtain average velocities in the partial sections, the meter was raised and lowered (4 times) in the partial section. Partial section values were then summed for a discharge total for the cross section. Measurements conducted in this manner have an estimated accuracy range of ±15 percent of actual discharge.

Hydrogeology

Three different aquifer systems exist in the Suwannee River Basin: the Floridan aquifer system, the intermediate aquifer system, and multiple surficial aquifer systems. The carbonate Floridan aquifer system is the deepest and exists

everywhere beneath the survey area. In the northeast portion of the Suwannee River Basin, the intermediate aquifers exist within units of the Hawthorn Formation (above the Floridan). A third aquifer, the surficial aquifer, exists at land surface in sand that overlies portions of the intermediate aquifer and Floridan aquifer system.

A massive, thick sequence of carbonate rock underlies the entire SRWMD and constitutes the Floridan aquifer system. The majority of the rock is limestone, which is calcium carbonate. The remaining rock is dolomite, which is calcium-magnesium carbonate. Dolomite is basically harder than limestone but has similar hydrogeologic properties. Unconsolidated material (sand or clay) usually overlies the Floridan aquifer system. However, once the carbonate rock is encountered in the subsurface, it is rare to find sand or clay (except in sinkhole fill). The carbonates of the Tertiary period are up to 2,500 feet thick in the SRWMD and are saturated with water. The potable portion of this aquifer generally ranges between 250 and 1,200 feet below land surface.

The Floridan aquifer system extends throughout peninsular Florida and the southern portions of Alabama, Georgia, and South Carolina. It generally underlies all of the Southeastern Coastal Plain and partially extends under the Atlantic Ocean and the Gulf of Mexico (Miller, 1986).

At the zenith of the last ice age (approximately 13,000 years ago), sea level was nearly 300 feet below its present altitude. It was from that time to the present that this regional aquifer system filled up with fresh water. As rain water recharges the aquifer system, the carbon dioxide in the rain water creates carbonic acid. This weak acid in the rain water dissolves the limestone and creates cavities and caverns in the aquifer. This results in a type of land form known as karst. A karst region typically lacks well developed surface drainage and has many sinkholes and springs. Also, a high percentage of rainfall will recharge directly into the aquifer in a karst region.

The Floridan aquifer system is the water source for all of the springs in this report, as well as the major source of drinking water in North Central Florida.

Characteristics of Springs

There are two main physiographic regions in the Suwannee River Basin: the Northern Highlands and the Gulf Coastal Lowlands. As the river descends from the Highlands in the northeast, it cuts through the confining sediments that overlie the Floridan aquifer system. Springs can occur in the Suwannee River Basin whenever the potentiometric surface of the aquifer extends above land surface and there is an opening for the water to escape through. Once in the

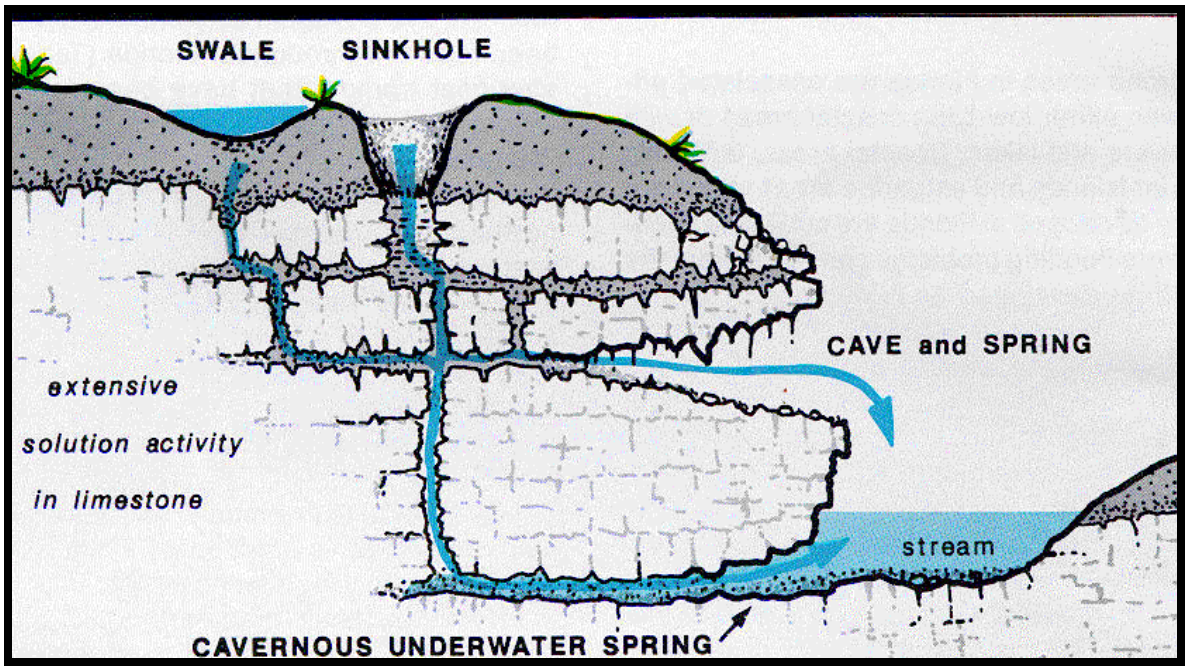

Figure 2. Advance Karst Development (Lane,1994).

Lowlands, the rivers have eroded down into the limestone of the Floridan aquifer system. For a spring to flow, there must be a conduit and cavity system for the water to gather in and flow through; and the water level in the aquifer must be higher than the water level in the river. A large quantity of ground water seeps into the river via the banks, riverbed, and springs. The advanced karst development in the river corridors exhibits well developed underground drainage. The overburden has collapsed into sinkholes, caves have formed, and a portion of ground water flows through well developed conduits. Springs are the outflow from the conduits (Figure 2).

If there were no surface streams or swamps draining into the Suwannee River, it would still flow below White Springs from groundwater discharge from the Floridan aquifer system. The river is the drain for the entire basin, and all the ground water as well as surface water in the basin flows toward the river. When the river rises, the water level in the river can get higher than the surrounding water level in the Floridan aquifer system and the springs reverse flow. When this occurs, river water recharges the Floridan aquifer system.

Protection of Ground Water

Springs are indicators of the overall quality of the ground water of the region that contributes to their flow. The activities of humans on the land surface can greatly affect the quality and quantity of ground water. Pollutants generated by human activities can move into the ground water. For example, sinkholes are often referred to as go-away holes and are used for the disposal of unwanted items that can pollute the drinking water.

Spring Summaries

The distribution of springs by county is shown in Table 3. Each county has a listing of the total number of springs, number of previously cataloged springs, number of first, second, third, and fourth magnitude springs, total flow in cfs and mgd, nitrate-nitrogen concentration range, and the number of springs in each river basin. The distribution of springs between river basins is given in Table 4. Each river basin has a listing of the total number of springs, number of previously cataloged springs, number of first, second, third, and fourth magnitude springs, total flow in cfs and mgd, and nitrate-nitrogen concentration range.

Summary

There were 197 springs identified in this survey in the Suwannee River Basin of which 65 were previously cataloged. There are 18 first magnitude, 87 second magnitude, 57 third magnitude, 34 fourth magnitude, and 1 spring which had no flow. The nitrate-nitrogen concentrations ranged from 0.01 to 19.2 mg L^{-1}. Three springs had nitrate-nitrogen concentrations greater than the Drinking Water Standard of 10 mg L^{-1}. The springs discharge a combined total of 7296.41 cfs or 4669.70 mgd.

Table 3. Spring Summary by County.

County	Alachua	Columbia	Dixie	Gilchrist	Hamilton	Lafayette	Levy	Madison	Suwannee
Total Number	6	30	8	37	23	25	3	13	52*
Previously Cataloged	3	11	4	10	5	9	3	2	18
Magnitude									
1st	2	5		2	2	2	2	1	2
2nd	4	14	4	18	10	10	1	5	21
3rd		9	4	12	5	9		1	17
4th		2		5	6	4		6	11
Total Flow (cfs)	913.57	1577.9	99.38	1149.65	1355.57	638.85	264.92	243	1053.57
Total Flow (mgd)	584.68	1009.86	63.6	735.78	867.56	408.86	169.55	155.52	674.28
Range Nitrate-N (mg L^{-1})	0.45 to 1.07	0.05 to 1.76	0.01to 2.08	0.06 to 16.8+	0.01 to 1.77	0.03 to 8.58	1.35 to 3.69	0.11 to 1.72	0.01 to 19.2**
River Basin									
Ichetucknee		6							2
Santa Fe	6	22		28					4
Suwannee		2	8	9	15	25	3	7	46*
Withlacoochee					8			6	

**** - one spring did not have flow***
***** - two springs with nitrate-nitrogen concentrations greater than 10 mg L^{-1}***
+ - one spring with nitrate-nitrogen concentration greater than 10 mg L^{-1}

Table 4. Spring Summary by River Basin.

River Basin	Ichetucknee	Santa Fe	Suwannee	Withlacoochee
Total Number	8	60	115*	14
Previously Cataloged	8	14	40	3
Magnitude				
1st	1	8	8	1
2nd	6	26	44	11
3rd	1	19	35	2
4th		7	27	
Total Flow (cfs)	345.72	3204.12	3240.98	505.59
Total Flow (mgd)	221.26	2050.64	2074.23	323.58
Range Nitrate-N (mg L^{-1})	0.04 to 1.45	0.06 to 16.8+	0.01 to 19.2**	0.73 to 1.77

**** - one spring did not have flow***
***** - two springs with nitrate-nitrogen concentrations greater than 10 mg L^{-1}***
+ - one spring with nitrate-nitrogen concentration greater than 10 mg L^{-1}

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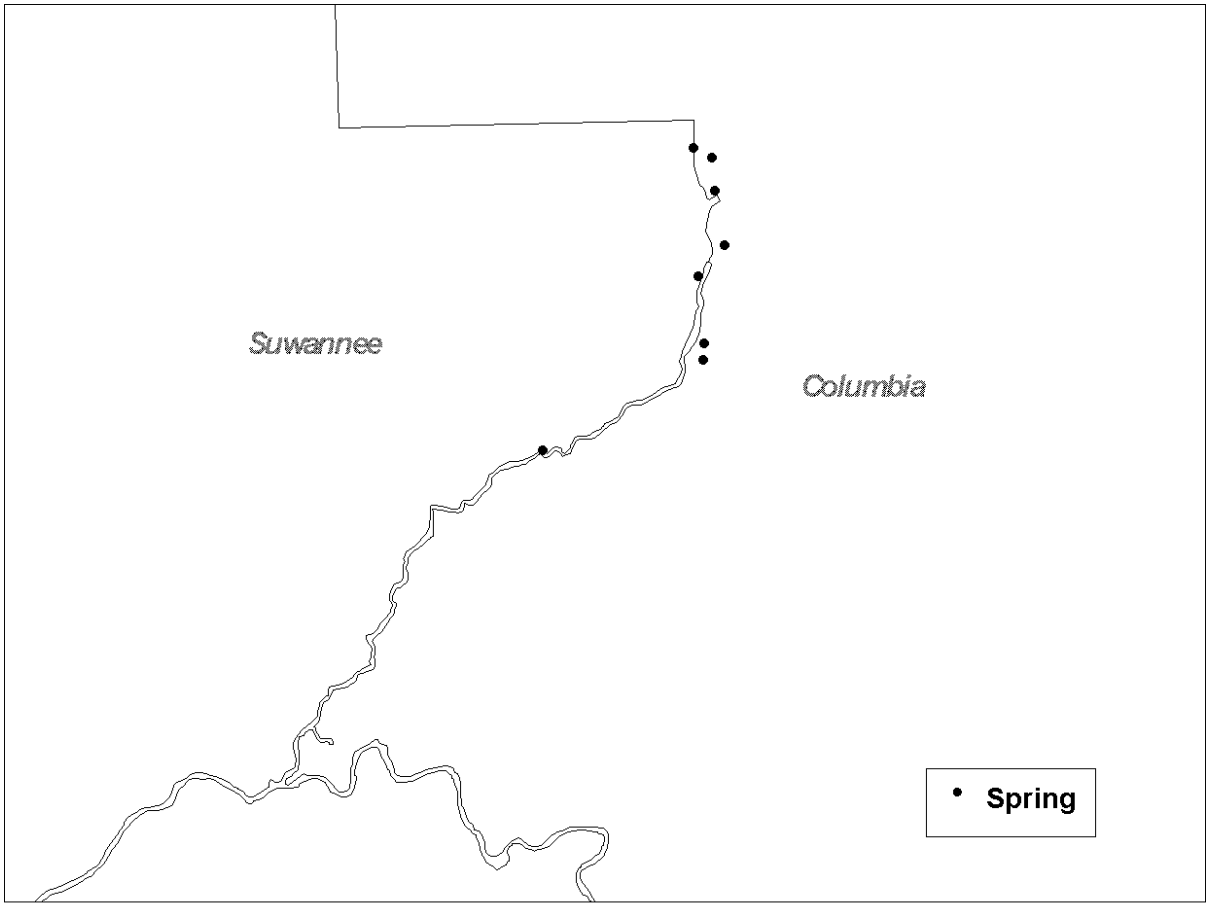
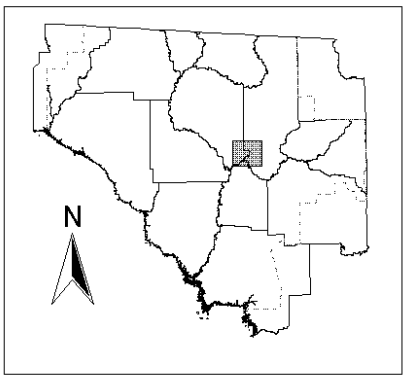
Ichetucknee River Springs





Note:
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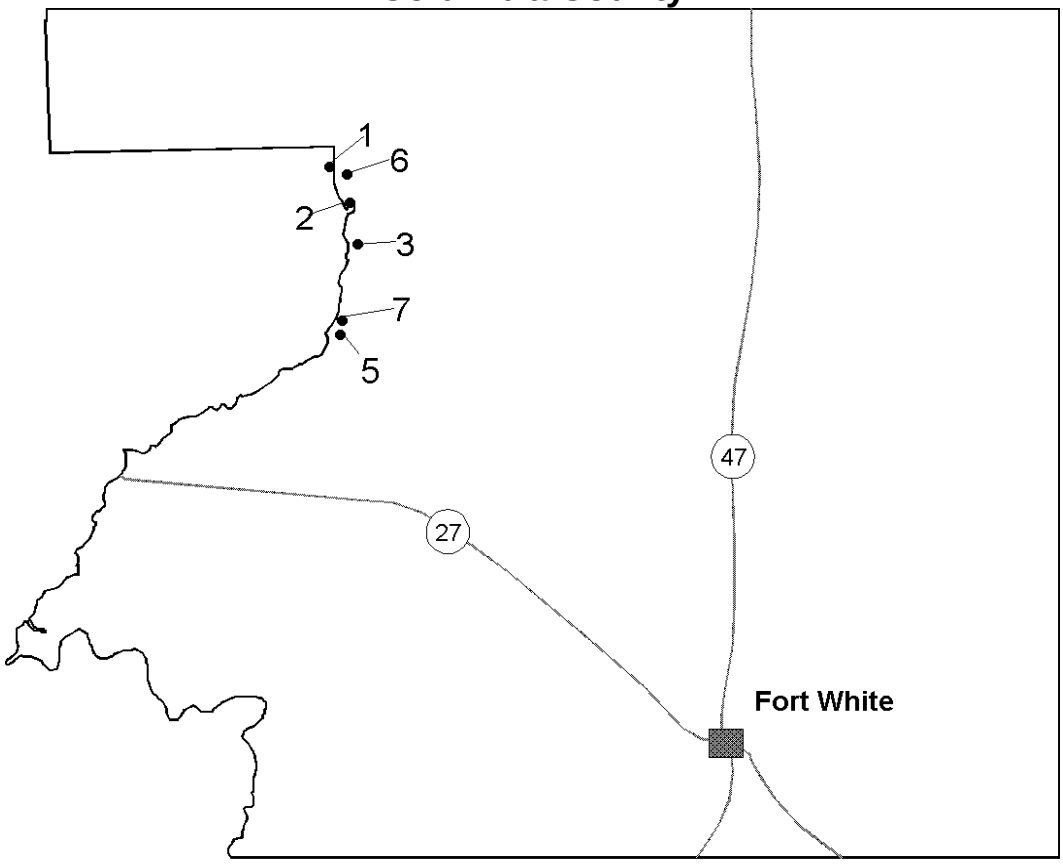
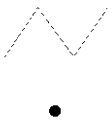
does not conform to National Map Accuracy Standards

SWIM

Columbia County





Roads

Spring

Note:
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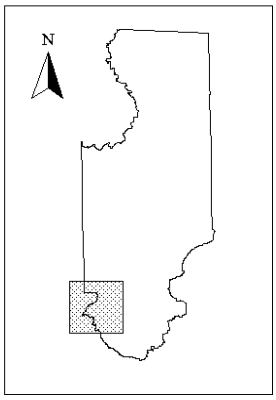


Map #	Spring Name	Previously cataloged	Page #	Flow (cfs)	Magnitude
2	Blue Hole	Yes	13	106.2	1
6	Cedar Head	Yes	13	16.66	2
1	Ichetucknee	Yes	14	42.4	2
7	Grassy Hole	Yes	14	10	2
3	Mission	Yes	15	84.58	2
5	Mill Pond	Yes	15	23.05	2

Blue Hole

The spring is located in Ichetucknee Springs State Park and an entrance fee is required. The pool area is approximately 100 feet wide with a maximum depth of 23 feet and the run is 200 feet long. There is a boil directly over the spring vent which is approximately 30 feet in diameter. The water has a blue color and it is darker over the spring vent, thus, the name Blue Hole. The pool area also receives the run of Cedar Head spring. Aquatic weeds cover approximately 80 percent of the bottom of the pool area. Algae is growing on the blades of about 75 percent of the weeds. There is a cave system associated with this spring and a cave map presented in Appendix E.

Also Known As:	Jug Hole
Latitude:	29° 58' 49"
Longitude:	82° 45' 31"
County:	Columbia
Historic Data:	Yes
River Basin:	Santa Fe

Parameters	**Value**	
Sp. Conductance	279*	
PH	7.62*	
Temperature	21.55*	
Nitrate nitrogen	0.04*	
Discharge (cfs)	106.2**	
Discharge (mgd)	67.97**	
Magnitude	1**	
Date sampled	6/17/98*	8/14/97**

Cedar Head

The spring is located in Ichetucknee Springs State Park and an entrance fee is required. The pool area is approximately 6 feet wide with a maximum depth of 5 feet. There are two boils and the water has a blue color. The run is 350 feet long and flows into the pool area of Blue Hole.

Latitude:	29° 58' 59"
Longitude:	82° 45' 32"
County:	Columbia
Historic Data:	Yes
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	299
pH	7.90
Temperature	21.64
Nitrate nitrogen	1.45
Discharge (cfs)	16.66
Discharge (mgd)	10.66
Magnitude	2
Date sampled	6/17/98

Grassy Hole

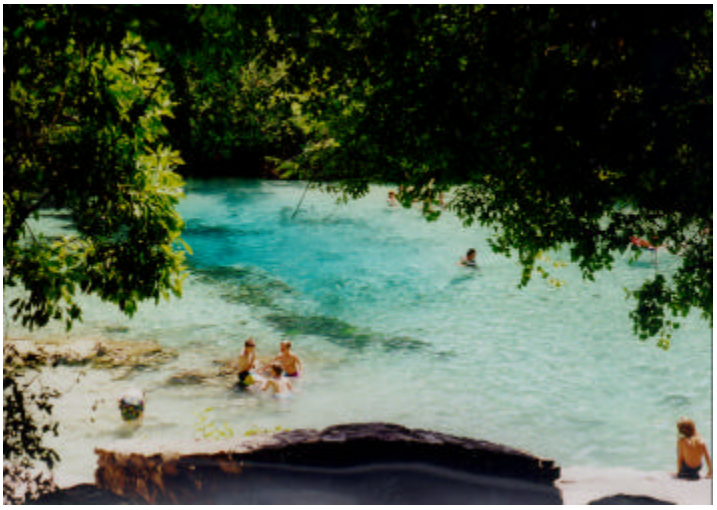
The spring is located in Ichetucknee Springs State Park and an entrance fee is required. The pool area is approximately 12 feet wide with a maximum depth of 2 feet. The run is 200 feet long with two boils present in the pool area. Aquatic weeds cover approximately 99 percent of the bottom of the pool area.

Latitude:	29° 58' 04"
Longitude:	82° 45' 35"
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	323
pH	7.63
Temperature	21.68
Nitrate nitrogen	0.50
Discharge (cfs)	10 est.
Discharge (mgd)	6.4 est.
Magnitude	2
Date sampled	6/16/98

Ichetucknee

The spring is located in Ichetucknee Springs State Park and an entrance fee is required. The pool area is approximately 170 feet wide with a maximum depth of 15 feet. The pool area has a rock and concrete wall on the upstream side and a boil is present over a vent. The spring is the beginning of the Ichetucknee River.



Latitude:	29° 59' 02"
Longitude:	82° 45' 43"
County:	Columbia
Historic Data:	Yes
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	332*
pH	7.54*
Temperature	21.5*
Nitrate nitrogen	0.68*
Discharge (cfs)	42.4**
Discharge (mgd)	27.14**
Magnitude	2**
Date sampled	4/16/98* 8/14/97**

Mill Pond

The spring is located in Ichetucknee Springs State Park and an entrance fee is required. The pool area is approximately 45 feet wide with a maximum depth of 5 feet. There are three boils present and the exposed limestone in the pool area and run were covered with algae. The run is 150 feet long and was modified in the 1800's to funnel water to power a mill.

Latitude:	29° 57' 59"
Longitude:	82° 45' 36"
County:	Columbia
Historic Data:	Yes
River Basin:	Santa Fe

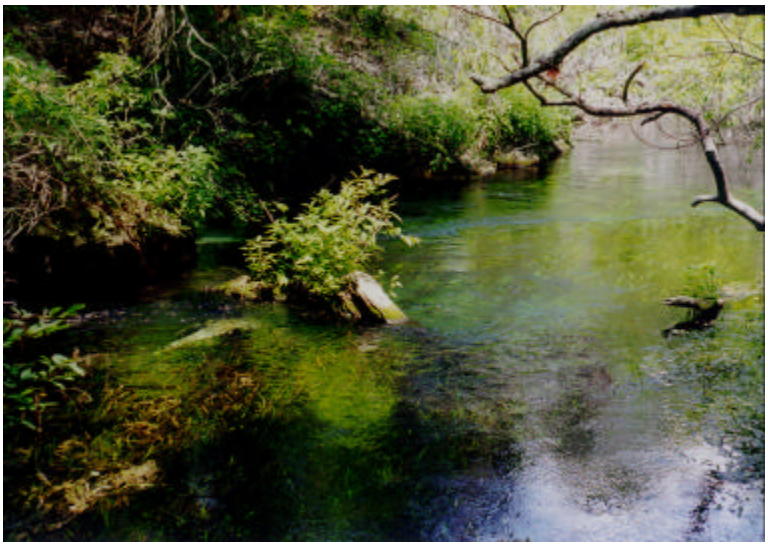
Parameters	**Value**
Sp. Conductance	316
pH	7.62
Temperature	21.8
Nitrate nitrogen	0.40
Discharge (cfs)	23.05
Discharge (mgd)	14.75
Magnitude	2
Date sampled	6/16/98

Mission

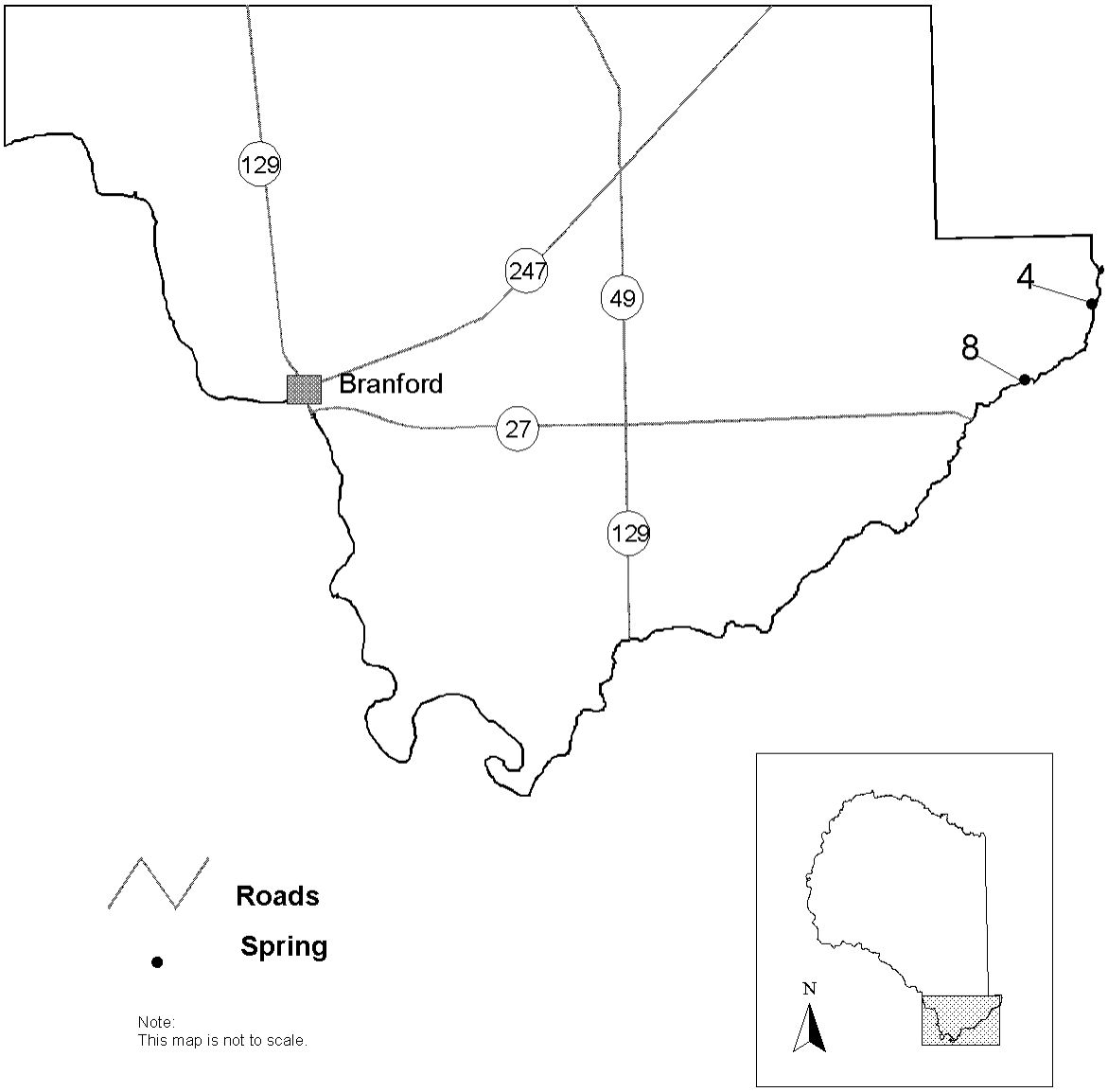
The spring is located in Ichetucknee Springs State Park and an entrance fee is required. The spring is part of a group that surrounds Fig Island. Eight vents are associated with this spring group and the maximum depth is 5 feet. The runs contained aquatic weeds and exposed limestone and the weeds were covered with algae. This spring group was the site of a Spanish Mission in the 1700's.

Also Known As:	Fig, Singing, Roaring
Latitude:	29° 58' 33"
Longitude:	82° 45' 28"
County:	Columbia
Historic Data:	Yes
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	278
pH	7.80
Temperature	21.58
Nitrate nitrogen	0.59
Discharge (cfs)	84.58
Discharge (mgd)	54.13
Magnitude	2
Date sampled	6/16/98



Suwannee County



Map #	Spring Name	Previously cataloged	Page #	Flow (cfs)	Magnitude
4	Devil's Eye	Yes	17	60	2
8	Coffee	Yes	17	2.83	3

Devil's Eye

The spring is located in Ichetucknee Springs State Park and an entrance fee is required. The pool area is approximately 125 feet wide and the run is 50 feet long. There are two boils present and the water has bluish color. The pool area and run have aquatic weeds covering approximately 80 percent of the bottom.

Latitude:	29° 58' 24"
Longitude:	82° 45' 37"
County:	Suwannee
Historic Data:	Yes
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	273
pH	7.45
Temperature	21.8
Nitrate nitrogen	0.60
Discharge (cfs)	60 est.
Discharge (mgd)	38.4 est.
Magnitude	2
Date sampled	6/16/98

Coffee

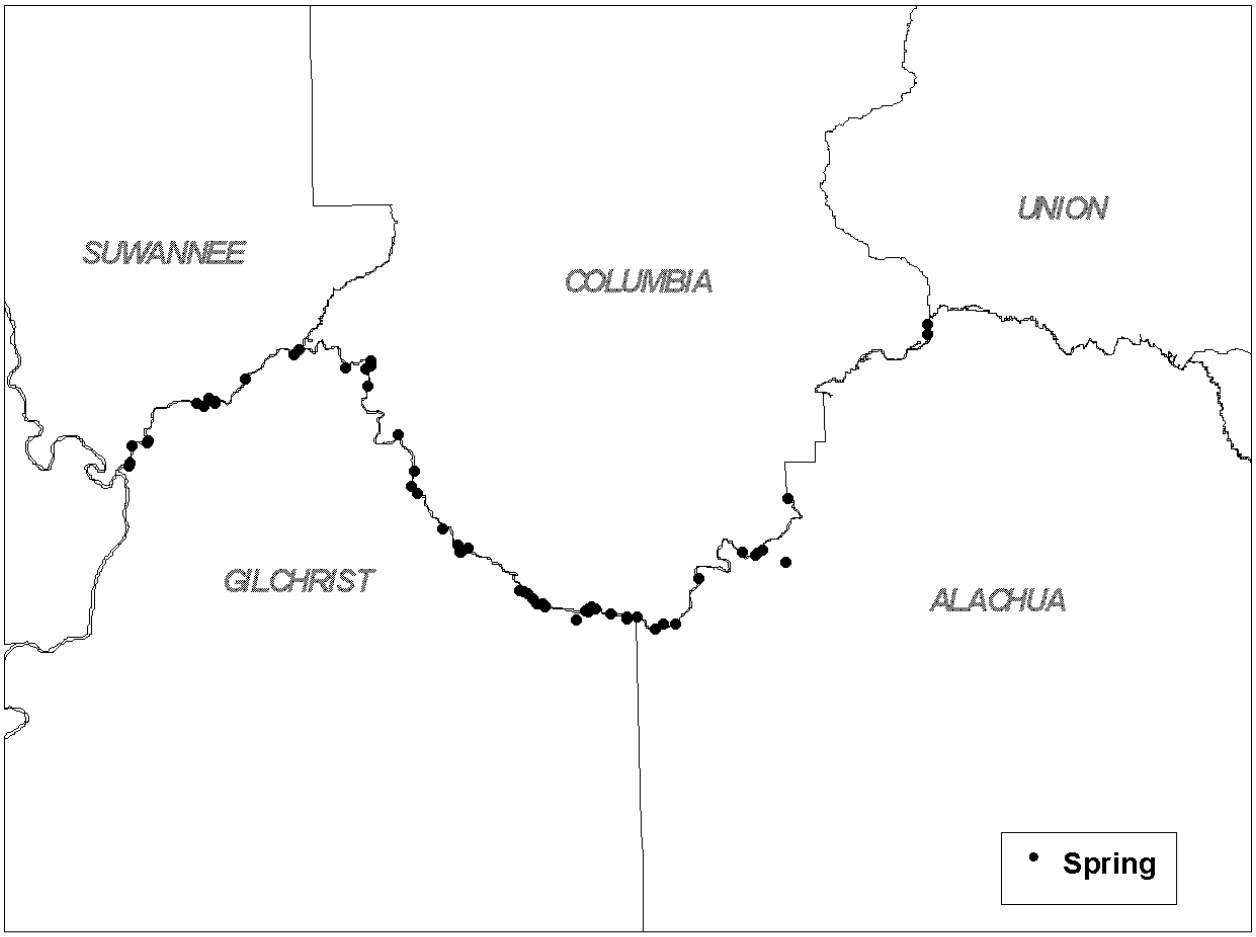
The spring is located in Ichetucknee Springs State Park and an entrance fee is required. The pool area is approximately 3 feet wide with a maximum depth of 2 feet. There are two boils present and the run is 45 feet long. The pool area and run have aquatic weeds covering approximately 80 percent of the bottom.

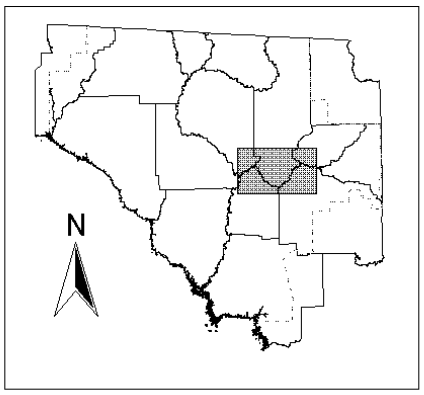
Latitude:	29° 57' 33"
Longitude:	82° 46' 31"
County:	Suwannee
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	249
pH	7.13
Temperature	21.72
Nitrate nitrogen	0.71
Discharge (cfs)	2.83
Discharge (mgd)	1.81
Magnitude	3
Date sampled	6/16/98

Comments:
This spring is the only known site where the Ichetucknee Silt Snail can be found.

Santa Fe River Springs

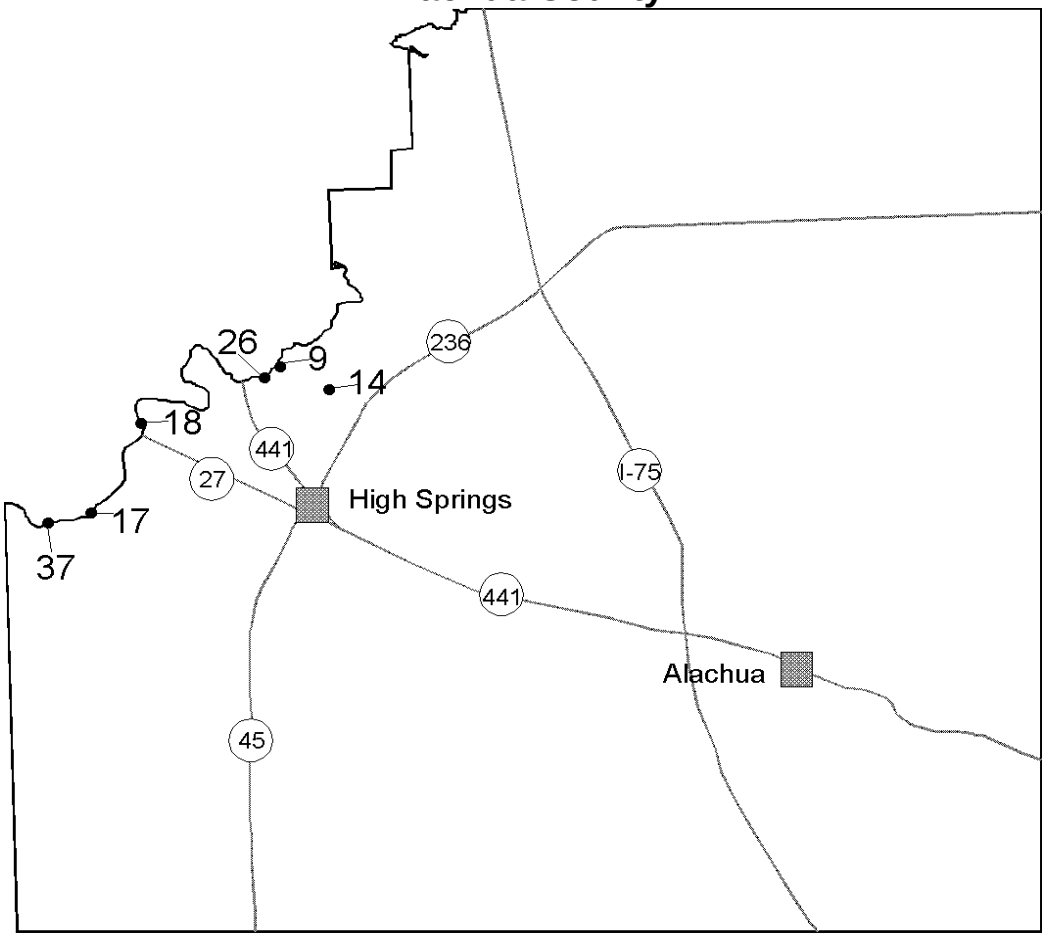




Note:
This map was prepared for informal purposes and
does not conform to National Map Accuracy Standards

SWIM

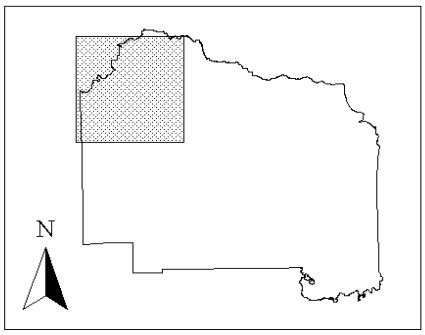
Alachua County



Roads

Spring

Note:
This map is not to scale.



Map #	Spring Name	Previously cataloged	Page #	Flow (cfs)	Magnitude
9	ALA112971	No	20	405.96	1
14	Hornsby	Yes	20	352.02	1
26	Darby	Yes	21	15	2
37	Poe	Yes	21	50.59	2
17	ALA930971	No	22	20	2
18	ALA930972	No	22	70	2

Hornsby

The spring is located in a private park. The pool area is approximately 300 feet wide and maximum depth is approximately 20 feet. There are two boils present and the combined diameter is approximately 35 feet. The bottom and exposed limestone are covered with green algae.

Latitude: 29° 51' 00"
Longitude: 82° 35' 35"
County: Alachua
Historic Data: Yes
River Basin: Santa Fe

Parameters	Value
Sp. Conductance	375
pH	7.42
Temperature	22.0
Nitrate nitrogen	1.07
Discharge (cfs)	352.02
Discharge (mgd)	225.29
Magnitude	1
Date sampled	4/27/98

ALA112971

The spring is located in the riverbed and access is from the river only. A boil, approximately 15 feet in diameter, is present and the maximum depth is 44 feet.

Latitude: 29° 51' 16"
Longitude: 82° 36' 10"
County: Alachua
Historic Data: No
River Basin: Santa Fe

Parameters	Value
Sp. Conductance	412
pH	7.01
Temperature	22.1
Nitrate nitrogen	0.80
Discharge (cfs)	405.96
Discharge (mgd)	259.81
Magnitude	1
Date sampled	5/26/98

Darby

The spring is surrounded by private property and is posted. It is located between the run from Hornsby Spring and the Santa Fe River. The pool area is approximately 30 feet in diameter with a maximum depth of 10 feet. The run is filled with aquatic weeds and they are covered with algae

Latitude:	29° 51’ 08”
Longitude:	82° 36’ 22”
County:	Alachua
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	338
pH	7.36
Temperature	22.23
Nitrate nitrogen	0.80
Discharge (cfs)	15 est.
Discharge (mgd)	9.6 est.
Magnitude	2
Date sampled	6/19/98

Poe

The spring is located in a county park and an entrance fee is required. There is access from the river and the park. The pool area is approximately 150 feet wide and 60 feet from the river. There are two boils present, each approximately 3.5 feet in diameter and the maximum depth is 12 feet. The bottom and exposed limestone are covered with green algae.

Latitude:	29° 49’ 33”
Longitude:	82° 38’ 58”
County:	Alachua
Historic Data:	Yes
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	409
pH	7.22
Temperature	22.5
Nitrate nitrogen	0.63
Discharge (cfs)	50.59
Discharge (mgd)	32.38
Magnitude	2
Date sampled	6/26/97

ALA930971

The spring is located in the riverbed and access is from the river only. A boil is present, approximately 10 feet in diameter and the maximum depth is 6.5 feet. The bottom and exposed limestone are covered with green algae.

Latitude:	29° 49’ 39”
Longitude:	82° 38’ 27”
County:	Alachua
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	434
pH	7.50
Temperature	22.53
Nitrate nitrogen	0.48
Discharge (cfs)	20.0 est.
Discharge (mgd)	12.8 est.
Magnitude	2
Date sampled	9/30/97

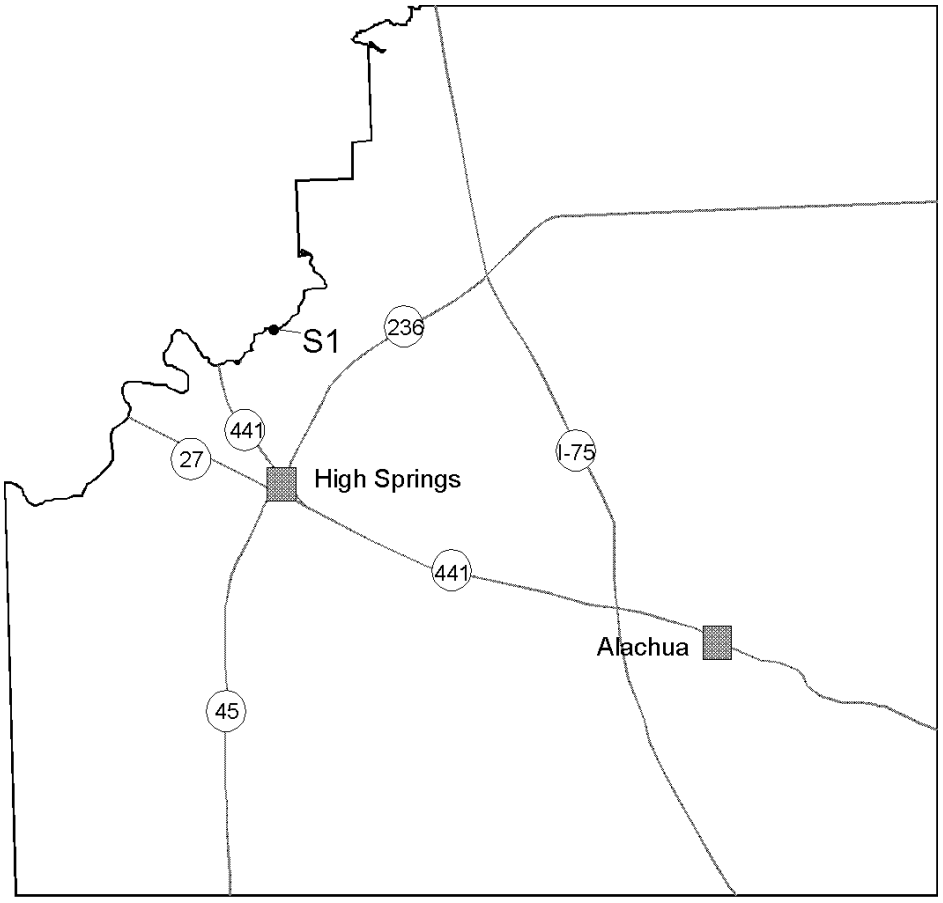
ALA930972

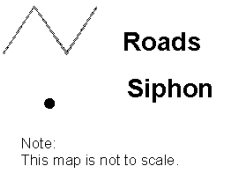
The spring is located in the riverbed and access is from the river only. A boil is present, approximately 25 feet in diameter and the maximum depth is 15 feet.

Latitude:	29° 50’ 39”
Longitude:	82° 37’ 51”
County:	Alachua
Historic Data:	No
River Basin:	Santa Fe

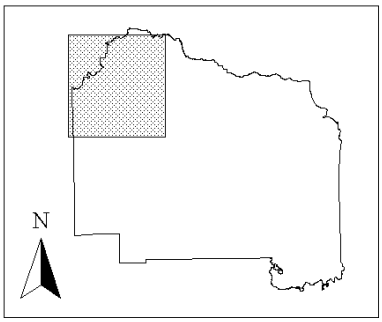
Parameters	**Value**
Sp. Conductance	470
pH	7.56
Temperature	24.38
Nitrate nitrogen	0.45
Discharge (cfs)	70.0 est.
Discharge (mgd)	44.8 est.
Magnitude	2
Date sampled	9/30/97

Siphon



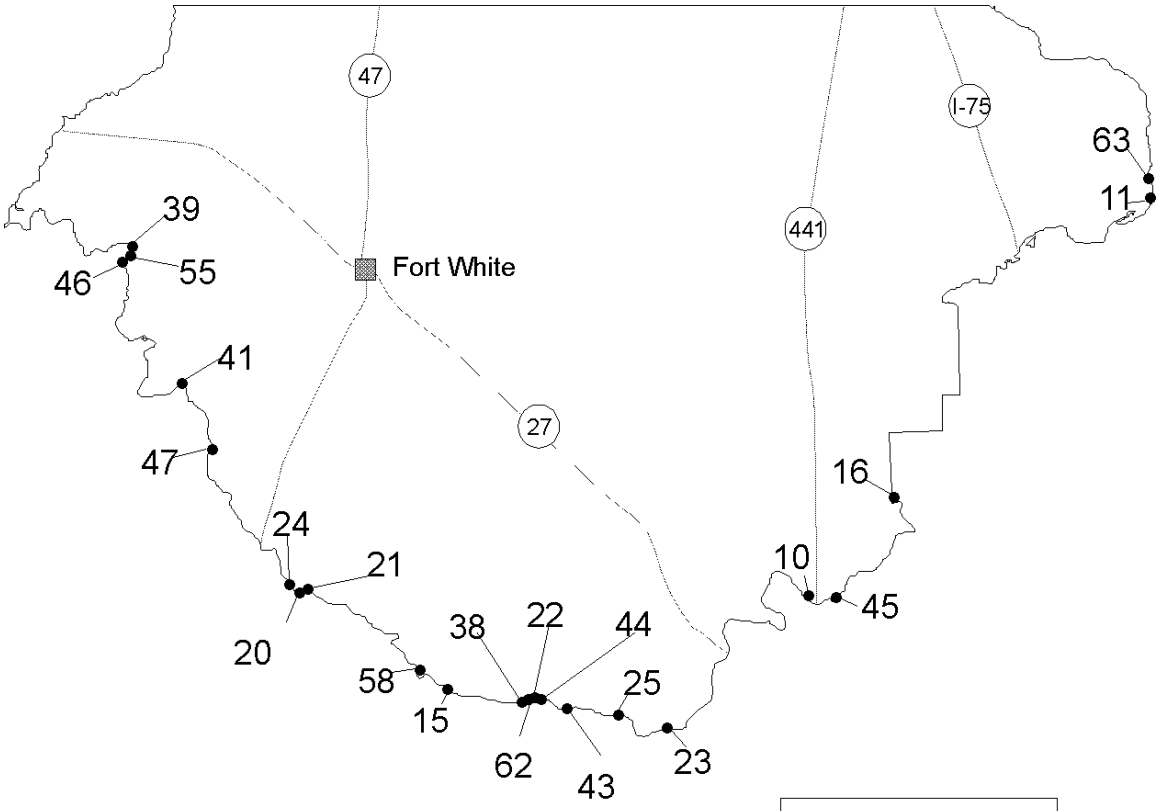


Note:
This map is not to scale.



During this survey, one siphon (S1) was identified in Alachua County on the riverbank of the Santa Fe River. The siphon is located at Latitude 29° 51' 30" and Longitude 82° 35' 57". This siphon was taking in an estimated 70 cfs (44.8 mgd) of water.

Columbia County



Map #	Spring Name	Previously cataloged	Page #	Flow (cfs)	Magnitude
10	Columbia	Yes	26	305.97	1
15	July	Yes	26	117	1
11	COL61981	No	27	149.99	1
16	Santa Fe Rise	No	27	442.05	1
38	Rum Island	Yes	28	60.8	2
39	Sunbeam	No	28	45.6	2
24	COL928972	No	29	17.44	2
41	Wilson	Yes	29	39	2
20	COL1012971	No	30	15	2
25	COL930971	No	30	13.34	2
21	COL1012972	No	31	10.28	2
22	COL101974	No	31	10	2
23	COL428982	No	32	25.16	2
55	Jamison	Yes	32	4.24	3
46	COL917971	No	33	9.66	3
58	Sawdust	No	33	6.83	3
43	COL101971	No	34	2.56	3
47	COL928971	No	34	4.91	3
44	COL101972	No	35	6.07	3
45	COL428981	No	35	2.41	3
62	COL101975	No	36	0.55	4
63	COL61982	No	36	1	4

(Blank)

Columbia

The spring is surrounded by private property. A boil is present, approximately 40 feet in diameter. The pool area is approximately 250 feet wide and the run is approximately 400 feet long. There are aquatic weeds in the run and the water has a slight tannic color.

Latitude:	29° 51’ 13”
Longitude:	82° 36’ 43”
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	417
pH	7.13
Temperature	22.0
Nitrate nitrogen	0.76
Discharge (cfs)	305.97
Discharge (mgd)	195.82
Magnitude	1
Date sampled	5/26/98

Comments:
There was a hotel located at this spring in the 1920’s and 1930’s on the Alachua county side of the river.

July

The spring is located across the river from the Devil’s Springs complex. It is surrounded by private property and the property is posted. Two boils are present that emerge from a fracture line in the bottom of the pool area. The spring is approximately 100 feet wide and 150 feet from the Santa Fe River. It is filled with Hydrilla.

Latitude:	29° 50’ 09”
Longitude:	82° 41’ 47”
County:	Columbia
Historic Data:	Yes
River Basin:	Santa Fe

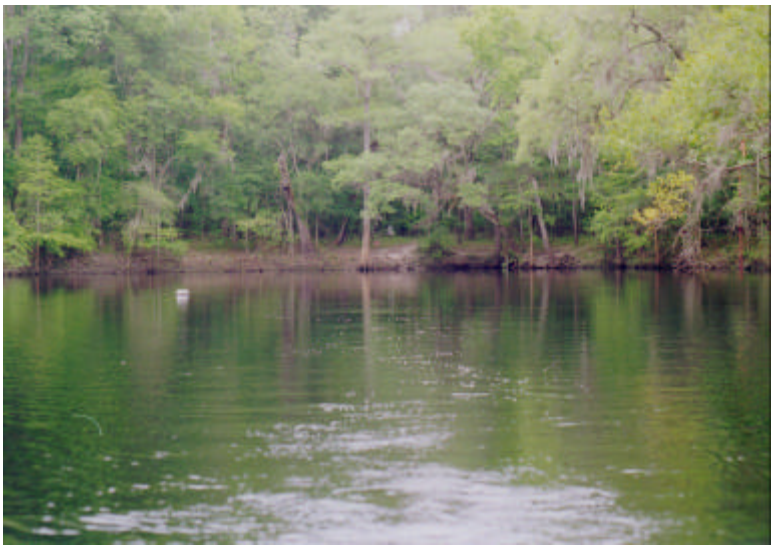
Parameters	**Value**
Sp. Conductance	415
pH	7.57
Temperature	22.35
Nitrate nitrogen	1.55
Discharge (cfs)	117
Discharge (mgd)	74.9
Magnitude	1
Date sampled	11/4/97

Santa Fe Rise

The spring is located in River Rise State Preserve. The spring area is approximately 250 feet wide and is the reemergence of the Santa Fe River which goes under ground approximately 2 miles up gradient of the Rise. The water has a slight tannic color.

Latitude:	29° 52’ 25”
Longitude:	82° 35’ 30”
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	401
pH	426
Temperature	22.2
Nitrate nitrogen	0.78
Discharge (cfs)	442.05
Discharge (mgd)	282.91
Magnitude	1
Date sampled	5/26/98



COL61981

The spring is surrounded by private property. The pool area is approximately 600 feet wide with a maximum depth of 61.5 feet. The run is approximately 200 feet long.

Latitude:	29° 56’ 03”
Longitude:	82° 31’ 49”
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	356
pH	7.27
Temperature	21.68
Nitrate nitrogen	0.45
Discharge (cfs)	149.99
Discharge (mgd)	95.99
Magnitude	1
Date sampled	6/1/98

Rum Island

The spring is located in a county park. There is a boil present and the maximum depth is 6 feet. The spring area is approximately 200 feet wide and 100 feet from the Santa Fe River and the bottom is covered with Hydrilla (approximately 70%).

Latitude:	29° 49’ 59”
Longitude:	82° 40’ 47”
County:	Columbia
Historic Data:	Yes
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	359
pH	7.41
Temperature	22.49
Nitrate nitrogen	1.48
Discharge (cfs)	60.8
Discharge (mgd)	38.9
Magnitude	2
Date sampled	10/1/97

Comments:
Some erosion has occurred near headspring.

Sunbeam

The spring flows from a fracture in the riverbed and access is from the river only. There are two boils present.

Latitude:	29° 55’ 39”
Longitude:	82° 46’ 11”
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	400
pH	7.37
Temperature	22.44
Nitrate nitrogen	0.25
Discharge (cfs)	45.6
Discharge (mgd)	29.2
Magnitude	2
Date sampled	9/9/97

Wilson

The spring is surrounded by private property. The area is residential, with houses located around the head spring and lining the run. A boil is present, approximately 10 feet in diameter, and the maximum depth is approximately 15 feet. The pool area is approximately 80 feet wide and the run is approximately 275 feet long. The water is slightly tea colored.

Also Known As:	Gilligan
Latitude:	29° 53’ 58”
Longitude:	82° 45’ 31”
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	389
pH	7.59
Temperature	22.05
Nitrate nitrogen	0.60
Discharge (cfs)	39.0
Discharge (mgd)	25.0
Magnitude	2
Date sampled	9/28/97

COL928972

The spring is located on the riverbank, which is surrounded by private property and the property is posted. The maximum depth is approximately 84 feet. Water flows from a fracture that is approximately 100 feet long and 4 feet wide at its widest point. The run is 80 feet long.

Also Known As:	Myrtle’s Fissure
Latitude:	29° 51’ 28”
Longitude:	82° 44’ 02”
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	342
pH	7.66
Temperature	22.98
Nitrate nitrogen	0.92
Discharge (cfs)	17.44
Discharge (mgd)	11.2
Magnitude	2
Date sampled	9/28/97

COL930971

The headspring is located away from the river and was not found due to lack of access. Land surrounding the spring is private property and the property is posted.

Latitude:	29° 49’ 48”
Longitude:	82° 39’ 26”
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	475
pH	7.44
Temperature	23.34
Nitrate nitrogen	0.45
Discharge (cfs)	13.34
Discharge (mgd)	8.54
Magnitude	2
Date sampled	9/30/97

COL1012971

The spring is located on the riverbank. It is surrounded by private property and the property is posted. Flow is from a fracture that is approximately 15 feet long and the maximum depth is 7 feet.

Latitude:	29° 51’ 24”
Longitude:	82° 43’ 47”
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	370
pH	7.35
Temperature	22.72
Nitrate nitrogen	1.39
Discharge (cfs)	15.0 est.
Discharge (mgd)	9.60 est.
Magnitude	2
Date sampled	10/12/97

COL1012972

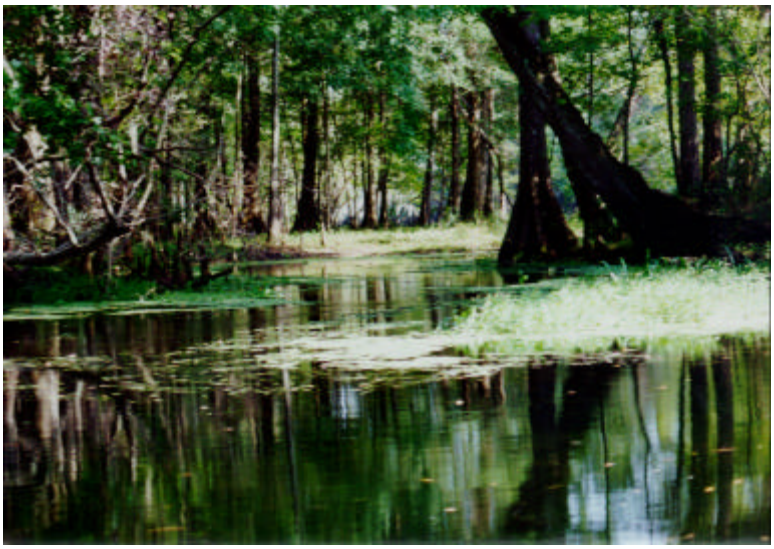
The spring is located on the riverbank, which is private property, and the property is posted. The spring discharges from a fracture that is approximately 70 feet long with a maximum depth of 47 feet. The run is approximately 150 feet long.

Latitude:	29° 51’ 22”
Longitude:	82° 43’ 54”
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	373
pH	7.62
Temperature	22.95
Nitrate nitrogen	0.92
Discharge (cfs)	10.28
Discharge (mgd)	6.58
Magnitude	2
Date sampled	10/12/97

COL101974

The spring is located on the riverbank within Rum Island County Park. The pool area is 65 feet wide with two runs and the maximum depth is 7 feet. The head spring and run are filled with Hydrilla.



Latitude:	29° 50’ 02”
Longitude:	82° 40’ 36”
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	350
pH	7.27
Temperature	22.31
Nitrate nitrogen	1.25
Discharge (cfs)	10.0 est.
Discharge (mgd)	6.40 est.
Magnitude	2
Date sampled	10/1/97

COL428982

The spring is located on the riverbank, which is private property. The pool area is approximately 35 feet wide with a maximum depth of 22 feet. Water flows from a fracture approximately 30 feet long. There is a boil present, approximately 15 feet in diameter, over the fracture.

Latitude:	29° 49’ 38”
Longitude:	82° 38’ 45”
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	392
pH	7.09
Temperature	22.11
Nitrate nitrogen	1.12
Discharge (cfs)	25.16
Discharge (mgd)	16.10
Magnitude	2
Date sampled	4/28/98

Jamison

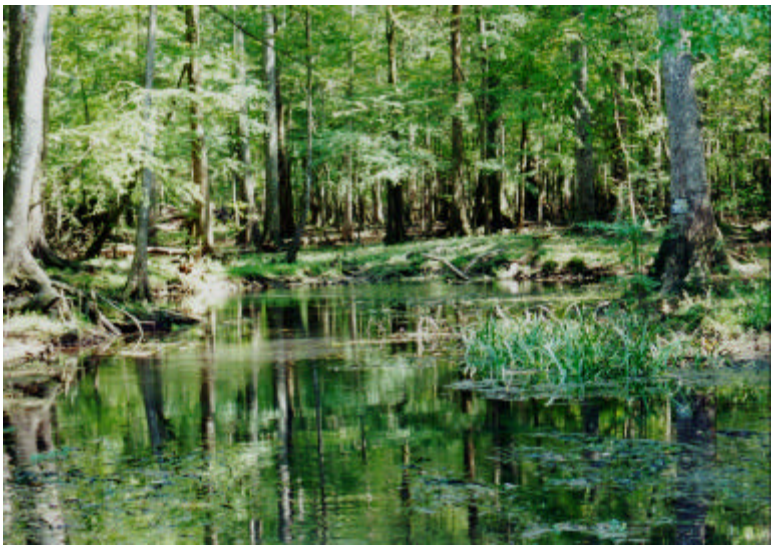
The spring is surrounded by private property. It only flows when groundwater levels are high in the Floridan aquifer system.

Latitude:	29° 55’ 32”
Longitude:	82° 46’ 12”
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	313
pH	7.79
Temperature	25.70
Nitrate nitrogen	0.18
Discharge (cfs)	4.24
Discharge (mgd)	2.71
Magnitude	3
Date sampled	6/19/98

Sawdust

The spring is surrounded by private property and the property is posted. It is located across the Santa Fe River from Ginnie Springs Park. A boil is present and the maximum depth is 6.5 feet. The spring is approximately 50 feet wide and 150 feet from the Santa Fe River. The run contains aquatic vegetation.



Latitude:	29° 50’ 23”
Longitude:	82° 42’ 13”
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	296
pH	7.69
Temperature	22.35
Nitrate nitrogen	0.73
Discharge (cfs)	6.83
Discharge (mgd)	4.4
Magnitude	3
Date sampled	10/1/97

COL917971

The spring is surrounded by private property. The pool area is approximately 50 feet wide and the run is dammed with rocks and concrete. A house is located approximately 150 feet from the head spring.

Latitude:	29° 55’ 28”
Longitude:	82° 46’ 19”
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	371
pH	7.30
Temperature	22.09
Nitrate nitrogen	0.25
Discharge (cfs)	9.66
Discharge (mgd)	6.2
Magnitude	3
Date sampled	9/17/97

COL928971

The spring is located on the riverbank and access is from the river only. The maximum depth is approximately 3 feet, and there is a boil present. The pool area is approximately 30 feet wide.

Latitude:	29° 53' 09"
Longitude:	82° 45' 06"
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	385
pH	7.80
Temperature	21.99
Nitrate nitrogen	0.32
Discharge (cfs)	4.91
Discharge (mgd)	3.1
Magnitude	3
Date sampled	9/28/97

COL101971

The spring is located on the riverbank. It is surrounded by private property and the property is posted. A house is located near the run.

Latitude:	29° 49' 53"
Longitude:	82° 40' 09"
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	365
pH	7.32
Temperature	22.44
Nitrate nitrogen	1.32
Discharge (cfs)	2.56
Discharge (mgd)	1.64
Magnitude	3
Date sampled	10/1/97

COL101972

The spring is located on the riverbank within Rum Island County Park. There are three boils present and the maximum depth is 3 feet. The pool area is 13 feet wide with a run of approximately 35 feet and the run contains aquatic vegetation.

Latitude:	29° 50’ 01”
Longitude:	82° 40’ 31”
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	360
pH	7.26
Temperature	22.32
Nitrate nitrogen	1.11
Discharge (cfs)	6.07
Discharge (mgd)	3.88
Magnitude	3
Date sampled	10/1/97

COL428981

The spring is located behind the riverbank, which is private property, and discharges through the riverbank. The pool area is approximately 100 feet wide with a maximum depth of 15 feet and the run is approximately 15 feet long.

Latitude:	29° 51’ 12”
Longitude:	82° 36’ 20”
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	393
pH	7.09
Temperature	20.84
Nitrate nitrogen	0.71
Discharge (cfs)	2.41
Discharge (mgd)	1.54
Magnitude	3
Date sampled	4/28/98

COL101975

The spring is located in the riverbed within Rum Island County Park and access is from the river only. The maximum depth is 6 feet and a boil is present. The pool area is 3 feet wide and surrounded by aquatic vegetation.

Latitude:	29° 50' 01"
Longitude:	82° 40' 41"
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	361
pH	7.31
Temperature	22.35
Nitrate nitrogen	1.76
Discharge (cfs)	0.55
Discharge (mgd)	0.35
Magnitude	4
Date sampled	10/1/97

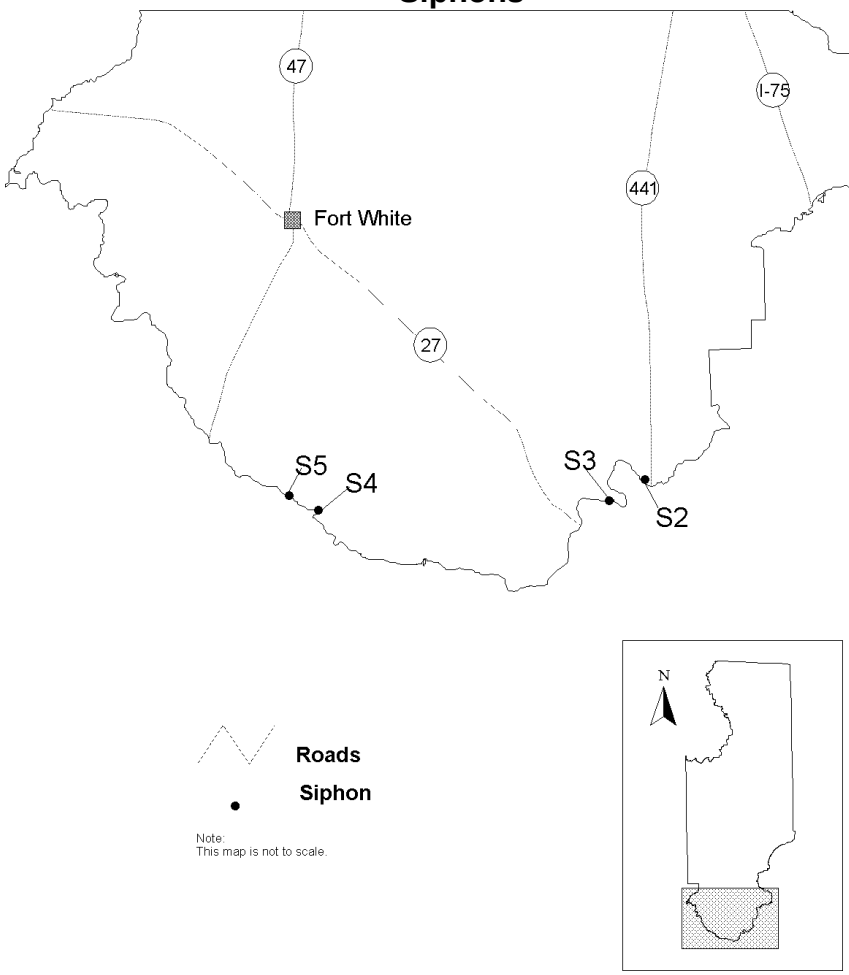
COL61982

The spring flows out of three vents in the limestone at the base of the riverbank.

Latitude:	29° 56' 17"
Longitude:	82° 31' 49"
County:	Columbia
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	242
pH	7.36
Temperature	21.62
Nitrate nitrogen	1.60
Discharge (cfs)	1 est.
Discharge (mgd)	0.64 est.
Magnitude	4
Date sampled	6/1/98

Siphons



During this survey, four siphons were identified in Columbia County on the riverbank of the Santa Fe River.

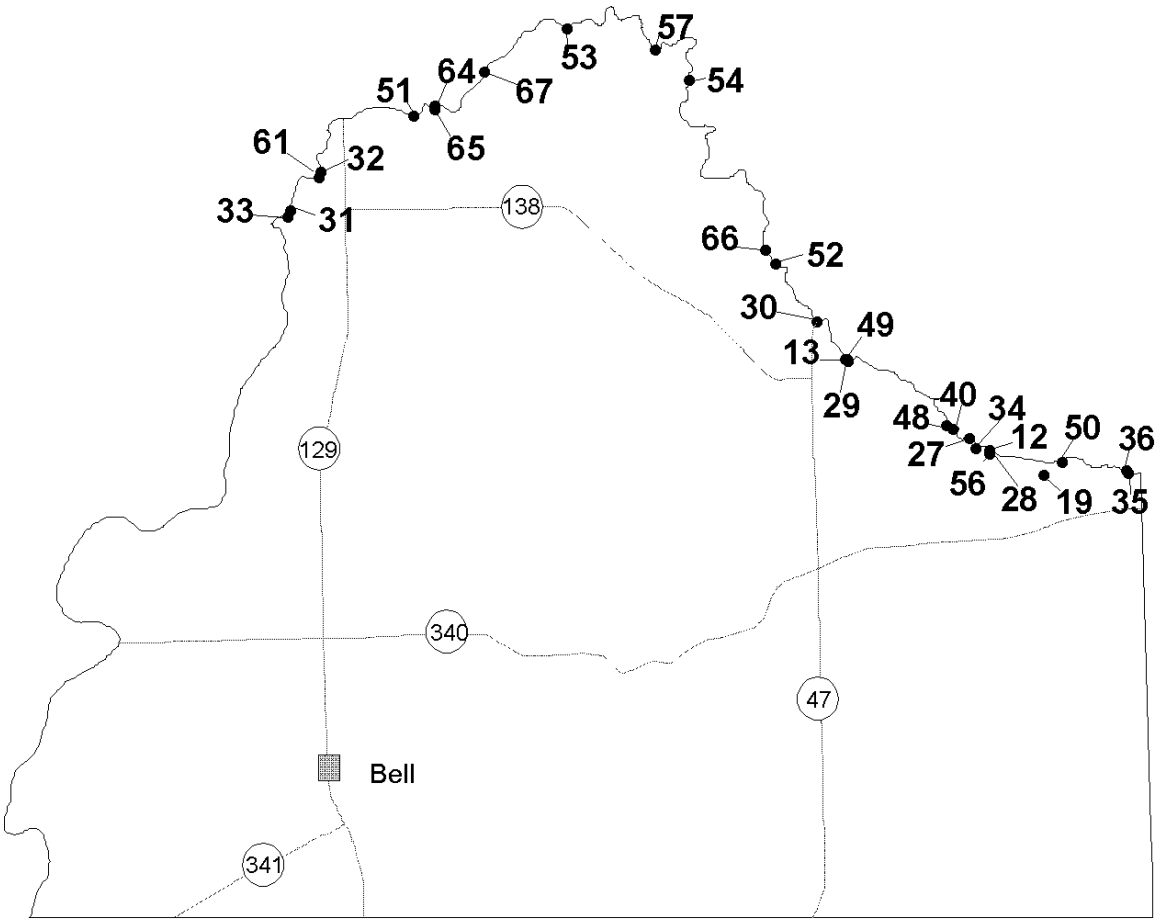
S2 is located at Latitude 29° 51' 08" and Longitude 82° 36' 35". It was taking in an estimated 60 cfs (38.4 mgd) of water.

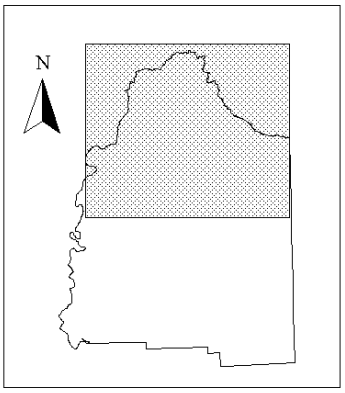
S3 is located at Latitude 29° 50' 55" and Longitude 82° 37' 19". It was taking in approximately half of the flow of the Santa Fe River or approximately 200 cfs (128 mgd).

S4 is located at Latitude 29° 51' 12" and Longitude 82° 43' 11". It was taking in an estimated 150 cfs (96 mgd) of water. This siphon is known locally as "Big Awesome Suck."

S5 is located at Latitude 29° 51' 13" and Longitude 82° 43' 28". It was taking in an estimated 50 cfs (32 mgd) of water. This siphon is known locally as "Little Awesome Suck."

Gilchrist County





Roads

Spring

Note:
This map is not to scale.

Map #	Spring Name	Previously cataloged	Page #	Flow (cfs)	Magnitude
12	Devil's Ear	No	40	120	1
13	GIL1012973	No	40	370	1
19	Blue	Yes	41	79.98	2
28	Devil's Eye	Yes	41	41.48	2
27	Dogwood	No	42	20.47	2
34	Ginnie	Yes	42	58.19	2
35	Lily	Yes	43	39.69	2
36	Pickard	No	43	11.52	2
33	GIL729971	No	44	13.48	2
40	Twin	No	44	19.55	2
31	GIL107971	No	45	30	2
32	GIL107972	No	45	30	2
29	GIL1012971	No	46	20	2
30	GIL1012974	No	46	70	2
48	Deer	No	47	4.99	3
56	Little Devil	No	47	2.06	3
57	Oasis	No	48	1.02	3
61	Trail	Yes	48	9.48	3
53	GIL99972	No	49	7.15	3
54	GIL99974	No	49	4.95	3
51	GIL917971	No	50	1.73	3
52	GIL928971	No	50	1.1	3
49	GIL1012972	No	51	8.07	3
50	GIL101971	No	51	8.25	3
64	GIL729972	No	52	0.21	4
65	GIL729973	No	52	0.47	4
66	GIL928972	No	53	0.75	4
67	GIL99971	No	53	0.5	4

Devil's Ear

The spring is located in Ginnie Springs Park and an entrance fee is required. It flows from a fracture in the bottom of the Santa Fe River. Camping and picnicking areas are located nearby. There is a cave system associated with this spring and a cave map presented in Appendix E.

Latitude:	29° 50' 06"
Longitude:	82° 41' 48"
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	407
pH	7.57
Temperature	22.30
Nitrate nitrogen	1.47
Discharge (cfs)	120 est.
Discharge (mgd)	76.8 est.
Magnitude	1
Date sampled	11/4/97

GIL1012973

The spring is located in the riverbed and the maximum depth is 20 feet. A boil is present on the surface.

Latitude:	29° 51' 21"
Longitude:	82° 43' 59"
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	373
pH	7.66
Temperature	22.92
Nitrate nitrogen	1.38
Discharge (cfs)	370 est.
Discharge (mgd)	236.8 est.
Magnitude	1
Date sampled	10/12/97

Blue

The spring is located in Blue Springs Park and an entrance fee required. It flows from a fracture, which is approximately 40 feet in diameter. The run is approximately 2,000 feet long. The pool area and run have Hydrilla present (approximately 40%). Picnicking areas are located around the spring.

Latitude:	29° 49’ 46”
Longitude:	82° 40’ 59”
County:	Gilchrist
Historic Data:	Yes
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	385
pH	7.46
Temperature	22.1
Nitrate nitrogen	1.23
Discharge (cfs)	79.98
Discharge (mgd)	51.19
Magnitude	2
Date sampled	4/27/98

Devil’s Eye

The spring is located in Ginnie Springs Park and an entrance fee is required. It flows from a fracture in the bottom of the spring and a boil is present. The pool area and run have Hydrilla present. Camping and picnicking areas are located nearby. There is a cave system associated with this spring and a cave map presented in Appendix E.

Latitude:	29° 50’ 05”
Longitude:	82° 41’ 48”
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	404
pH	7.46
Temperature	22.36
Nitrate nitrogen	1.58
Discharge (cfs)	41.48
Discharge (mgd)	26.55
Magnitude	2
Date sampled	11/4/97

Dogwood

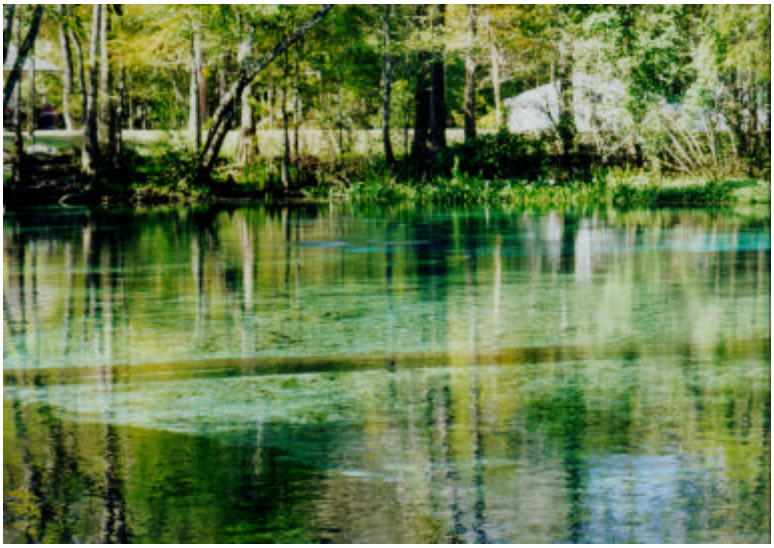
The spring is located in Ginnie Springs Park and an entrance fee is required. It discharges from a fracture and a boil is present. The pool area and run have Hydrilla present. Camping and picnicking areas are located around the spring.

Latitude:	29° 50’ 16”
Longitude:	82° 42’ 07”
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	321
pH	7.72
Temperature	22.14
Nitrate nitrogen	0.84
Discharge (cfs)	20.47
Discharge (mgd)	13.10
Magnitude	2
Date sampled	11/4/97

Ginnie

The spring is located in Ginnie Springs Park and an entrance fee required. It discharges from a fracture in the bottom of the spring pool. The pool area is approximately 250 feet wide with a maximum depth of approximately 20 feet. The run is approximately 400 feet long. The pool area and run have Hydrilla present. There is a cave system associated with this spring, but no map presented in Appendix E. Camping and picnicking areas are located around the spring.



Latitude:	29° 50’ 08”
Longitude:	82° 42’ 00”
County:	Gilchrist
Historic Data:	Yes
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	325
pH	7.62
Temperature	22.32
Nitrate nitrogen	1.29
Discharge (cfs)	58.19
Discharge (mgd)	37.24
Magnitude	2
Date sampled	11/4/97

Lily

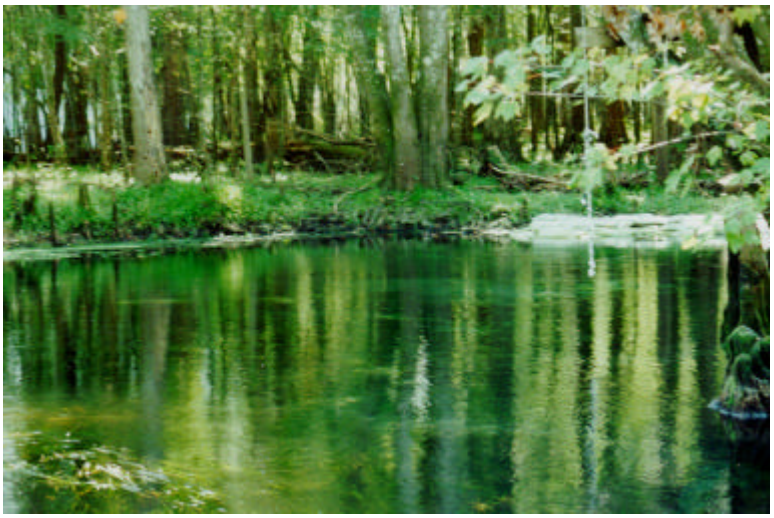
The spring is surrounded by private property and public access is from the river. There are four boils present. The pool area is approximately 45 feet wide and the run is approximately 150 feet long. The pool area and run have Hydrilla present (approximately 30%).

Latitude:	29° 49’ 46”
Longitude:	82° 39’ 41”
County:	Gilchrist
Historic Data:	Yes
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	424
pH	7.84
Temperature	22.72
Nitrate nitrogen	0.59
Discharge (cfs)	39.69
Discharge (mgd)	25.40
Magnitude	2
Date sampled	9/30/97

Pickard

The spring is surrounded by private property. The pool area is approximately 60 feet wide and the run is approximately 30 feet long. The pool area and run have Hydrilla present (approximately 35%).



Latitude:	29° 49’ 48”
Longitude:	82° 39’ 43”
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	368
pH	7.16
Temperature	22.31
Nitrate nitrogen	0.95
Discharge (cfs)	11.52
Discharge (mgd)	7.37
Magnitude	2
Date sampled	10/1/97

Twin

The spring is located in Ginnie Springs Park and an entrance fee is required. It discharges from a fracture in the bottom of the pool area. The maximum depth is 6 feet and the run is approximately 200 feet long. The pool area and run have Hydrilla present (approximately 60%). Camping and picnicking areas are located around the spring.

Latitude: 29° 50' 24"
Longitude: 82° 42' 21"
County: Gilchrist
Historic Data: No
River Basin: Santa Fe

Parameters	**Value**
Sp. Conductance	295
pH	7.48
Temperature	21.99
Nitrate nitrogen	0.47
Discharge (cfs)	19.55
Discharge (mgd)	12.51
Magnitude	2
Date sampled	11/4/97

GIL729971

The spring is in the floodplain of the Santa Fe River. The pool area is approximately 250 feet wide with a maximum depth of 22 feet. The run is approximately 100 feet long.

Latitude: 29° 53' 21"
Longitude: 82° 52' 29"
County: Gilchrist
Historic Data: No
River Basin: Santa Fe

Parameters	**Value**
Sp. Conductance	270*
pH	7.42*
Temperature	22.04*
Nitrate nitrogen	0.87*
Discharge (cfs)	13.48**
Discharge (mgd)	8.63**
Magnitude	2**
Date sampled	7/29/97* 9/17/97**

GIL107971

The spring is located in the riverbed and the maximum depth is 10 feet. The pool area is approximately 70 feet wide and access is from the river only.

Latitude:	29° 53' 27"
Longitude:	82° 52' 26"
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	281
pH	7.35
Temperature	21.84
Nitrate nitrogen	1.56
Discharge (cfs)	30.0 est.
Discharge (mgd)	19.2 est.
Magnitude	2
Date sampled	10/7/97

Comments:
There is a sunken boat in spring vent.

GIL107972

The spring is located in the riverbed behind a campground. The maximum depth is 23 feet and the pool area is approximately 80 feet wide.

Latitude:	29° 53' 56"
Longitude:	82° 51' 58"
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	374
pH	7.26
Temperature	21.60
Nitrate nitrogen	8.07
Discharge (cfs)	30.0 est.
Discharge (mgd)	19.2 est.
Magnitude	2
Date sampled	10/7/97

GIL1012971

The spring is located on the riverbank, which is surrounded by SRWMD land. The maximum depth is 26 feet and the pool area is approximately 120 feet wide. Hydrilla is present in the pool area and the run.

Latitude:	29° 51’ 19”
Longitude:	82° 43’ 56”
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	370
pH	7.47
Temperature	22.90
Nitrate nitrogen	0.90
Discharge (cfs)	20.0 est.
Discharge (mgd)	12.8 est.
Magnitude	2
Date sampled	10/12/97

GIL1012974

The spring is located in the riverbed next to a county maintained boat ramp. A boil is present that is approximately 15 feet in diameter and the maximum depth is 12 feet.

Latitude:	29° 51’ 52”
Longitude:	82° 44’ 24”
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	368
pH	7.71
Temperature	23.19
Nitrate nitrogen	1.43
Discharge (cfs)	70.0 est.
Discharge (mgd)	44.8 est.
Magnitude	2
Date sampled	10/12/97

Deer

The spring is located in Ginnie Springs Park and an entrance fee is required. It flows from a fracture with a maximum depth of 5 feet and the run is approximately 200 feet long. The pool area and run have Hydrilla present (approximately 60%). Camping and picnicking areas are located around the spring.

Latitude:	29° 50' 26"
Longitude:	82° 42' 27"
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

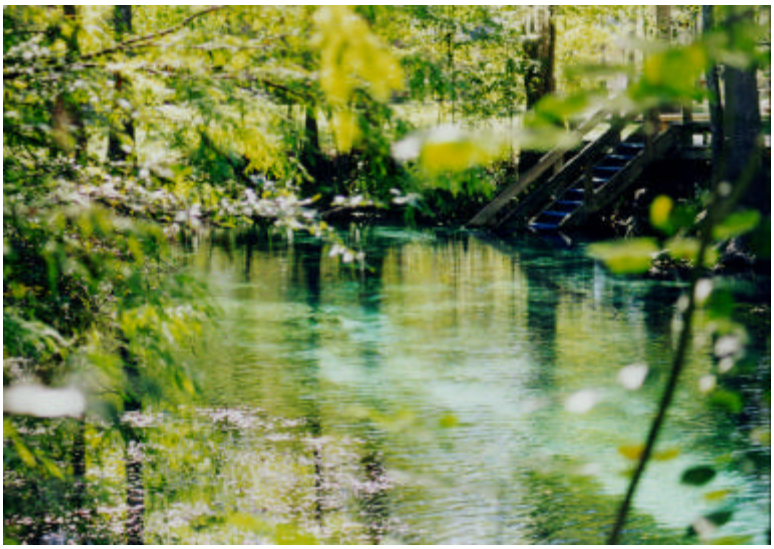
Parameters	**Value**
Sp. Conductance	279
pH	7.58
Temperature	21.86
Nitrate nitrogen	0.48
Discharge (cfs)	4.99
Discharge (mgd)	3.19
Magnitude	3
Date sampled	11/4/97

Little Devil

The spring is located in Ginnie Springs Park and an entrance fee is required. It discharges from a fracture in the bottom of the pool area. The run is approximately 150 feet long and the pool area and run have Hydrilla present. Camping and picnicking areas are located around the spring. There is a cave system associated with this spring and a cave map presented in Appendix E.

Latitude:	29° 50' 03"
Longitude:	82° 41' 49"
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	349
pH	7.44
Temperature	22.32
Nitrate nitrogen	1.44
Discharge (cfs)	2.06
Discharge (mgd)	1.32
Magnitude	3
Date sampled	11/4/97



Oasis

The spring is surrounded by private property. The pool area is approximately 75 feet wide with a maximum depth of 13 feet and a boil is present. The spring appears to have been possibly dredged out in the past.

Latitude:	29° 55' 31"
Longitude:	82° 46' 49"
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	405
pH	7.23
Temperature	21.63
Nitrate nitrogen	0.07
Discharge (cfs)	1.02
Discharge (mgd)	0.65
Magnitude	3
Date sampled	9/9/97

Trail

The spring is located in the riverbed behind a campground. The maximum depth is 12 feet and the pool area is approximately 45 feet wide.

Also Known As:	Pleasant Grove
Latitude:	29° 53' 53"
Longitude:	82° 52' 00"
County:	Gilchrist
Historic Data:	Yes
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	397
pH	7.48
Temperature	21.9
Nitrate nitrogen	6.30
Discharge (cfs)	9.48
Discharge (mgd)	6.06
Magnitude	3
Date sampled	9/16/97

GIL99972

The spring is located on the riverbank and is surrounded by private property. The pool area is approximately 35 feet wide with a maximum depth of 10 feet. Two boils are present at the surface.

Latitude:	29° 55’ 49”
Longitude:	82° 48’ 09”
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	397
pH	7.05
Temperature	21.39
Nitrate nitrogen	0.35
Discharge (cfs)	7.15
Discharge (mgd)	4.58
Magnitude	3
Date sampled	9/9/97

GIL99974

The spring is located on the riverbank and access is from the river only. The pool area is approximately 30 feet wide with a maximum depth of 4 feet.

Latitude:	29° 55’ 06”
Longitude:	82° 46’ 18”
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	416
pH	7.27
Temperature	21.64
Nitrate nitrogen	0.12
Discharge (cfs)	4.95
Discharge (mgd)	3.17
Magnitude	3
Date sampled	9/9/97

GIL917971

The spring is located on the riverbank, which is surrounded by private property. The pool area is approximately 50 feet wide. The pool area has duck weed covering approximately 60% of the surface.

Also Known As:	Troop
Latitude:	29° 54’ 41”
Longitude:	82° 50’ 32”
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	520
pH	7.36
Temperature	24.30
Nitrate nitrogen	16.8
Discharge (cfs)	1.73
Discharge (mgd)	1.11
Magnitude	3
Date sampled	9/17/97

GIL928971

The spring flows through the floodplain, which is surrounded by private property.

Latitude:	29° 52’ 39”
Longitude:	82° 45’ 02”
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	387
pH	7.58
Temperature	23.30
Nitrate nitrogen	0.20
Discharge (cfs)	1.10
Discharge (mgd)	0.70
Magnitude	3
Date sampled	9/28/97

GIL101971

The spring is located away from the river on private property. It is located across the Santa Fe River from Rum Island Springs County Park. The run is filled with aquatic weeds.

Latitude:	29° 49' 56"
Longitude:	82° 49' 42"
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

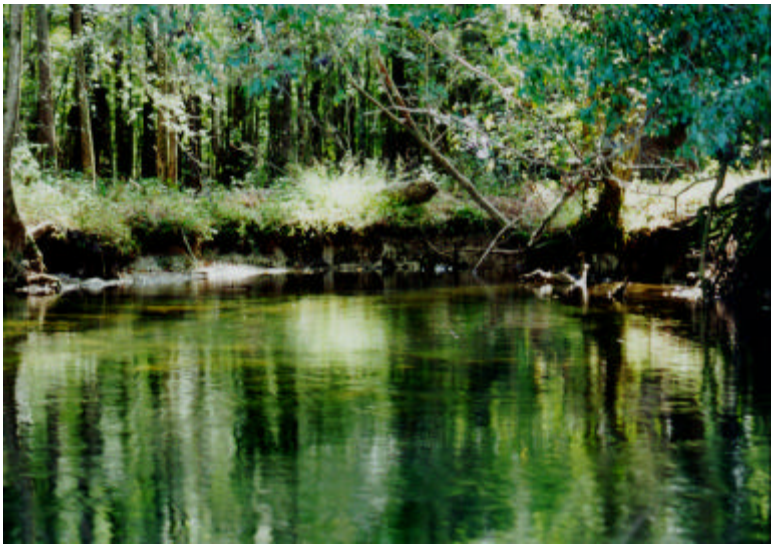
Parameters	**Value**
Sp. Conductance	339
pH	7.45
Temperature	22.94
Nitrate nitrogen	1.70
Discharge (cfs)	8.25
Discharge (mgd)	5.28
Magnitude	3
Date sampled	10/1/97

GIL1012972

The spring is located on the riverbank, which is surrounded by SRWMD land. The maximum depth is 5 feet and the pool area is approximately 13 feet wide. Hydrilla is present in the pool area and the run.

Latitude:	29° 51' 21"
Longitude:	82° 43' 58"
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	369
pH	7.54
Temperature	22.89
Nitrate nitrogen	1.36
Discharge (cfs)	8.07
Discharge (mgd)	5.16
Magnitude	3
Date sampled	10/12/97



GIL729972

The spring is in the floodplain of the Santa Fe River. The pool area is approximately 75 feet wide and the run is approximately 300 feet long. The pool area is completely covered with water lettuce.

Latitude:	29° 54’ 45”
Longitude:	82° 50’ 12”
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	283
pH	7.22
Temperature	22.51
Nitrate nitrogen	0.68
Discharge (cfs)	0.21
Discharge (mgd)	0.13
Magnitude	4
Date sampled	7/29/97

GIL729973

The spring is in the floodplain of the Santa Fe River. The pool area is approximately 150 feet wide and the run is approximately 60 feet long. The pool area is covered with duck weed and water lettuce.

Latitude:	29° 54’ 48”
Longitude:	82° 50’ 12”
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	273
pH	7.09
Temperature	21.91
Nitrate nitrogen	0.84
Discharge (cfs)	0.47
Discharge (mgd)	0.30
Magnitude	4
Date sampled	7/29/97

GIL99971

The spring is in the floodplain of the Santa Fe River. The pool area is approximately 75 feet wide and the run is approximately 450 feet long.

Latitude:	29° 55’ 16”
Longitude:	82° 49’ 26”
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	332
pH	7.32
Temperature	22.06
Nitrate nitrogen	0.06
Discharge (cfs)	0.5 est.
Discharge (mgd)	0.32 est.
Magnitude	4
Date sampled	9/9/97

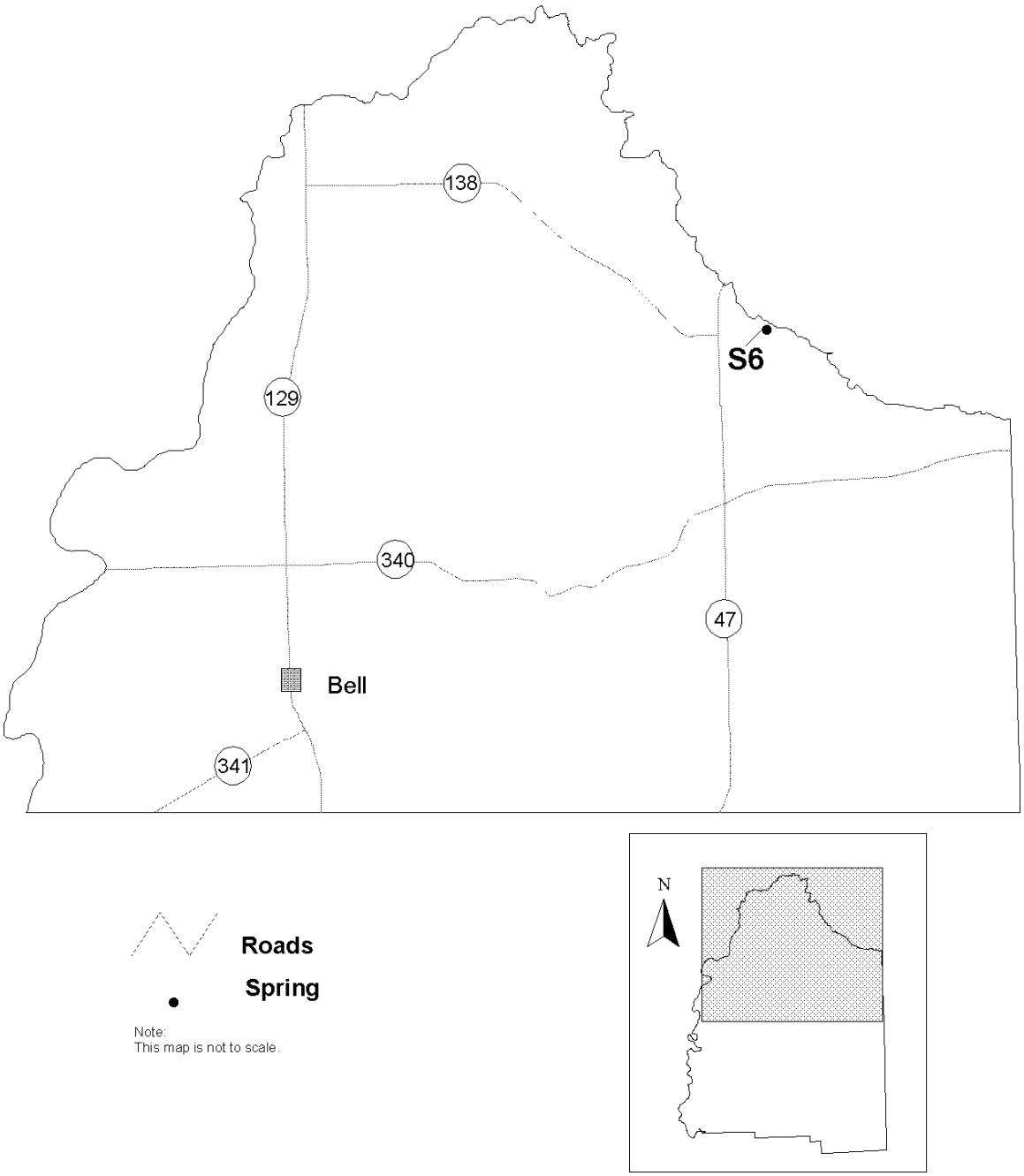
GIL928972

The spring flows through the floodplain, which is surrounded by private property.

Latitude:	29° 52’ 49”
Longitude:	82° 45’ 11”
County:	Gilchrist
Historic Data:	No
River Basin:	Santa Fe

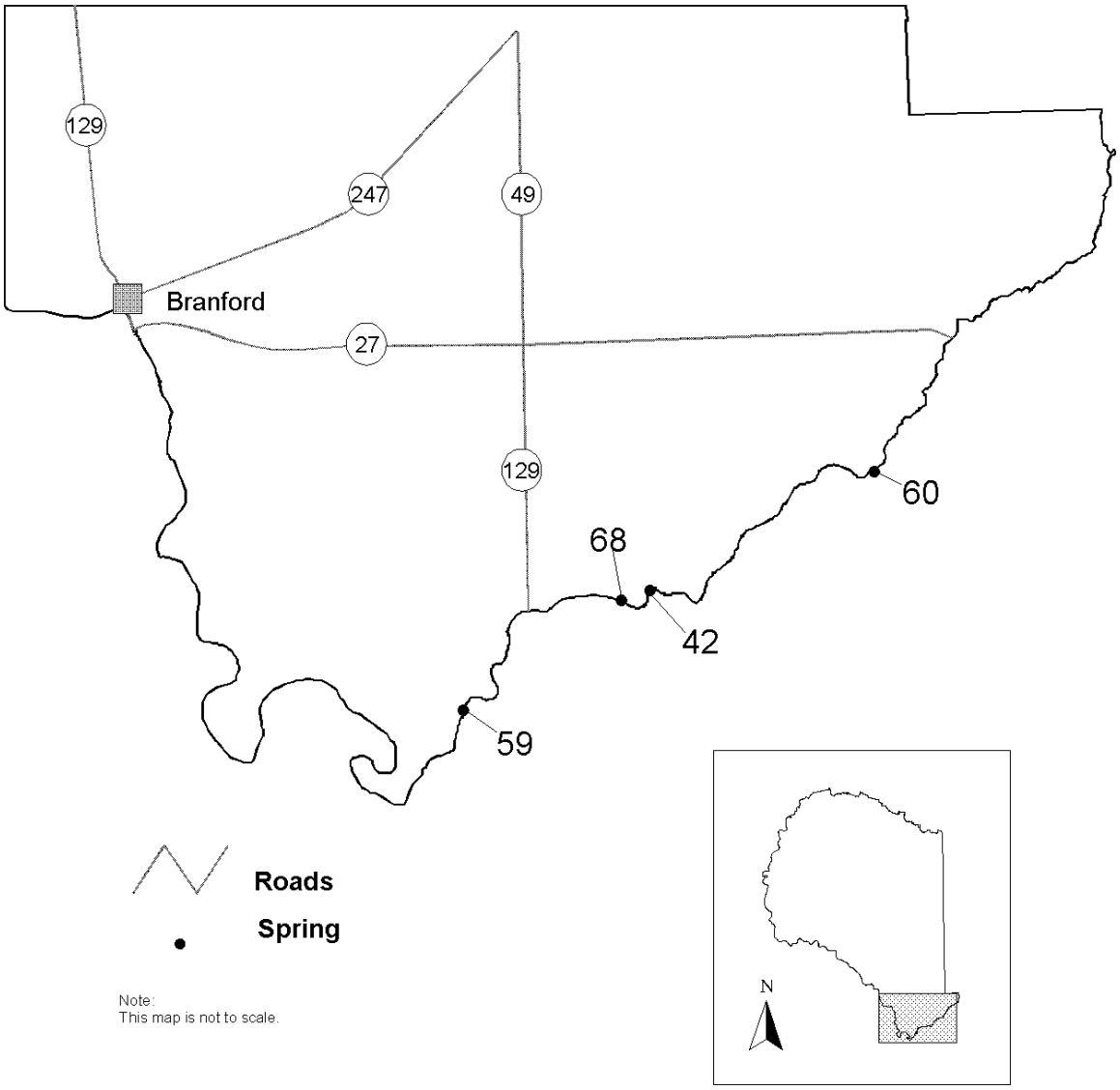
Parameters	**Value**
Sp. Conductance	349
pH	8.01
Temperature	24.07
Nitrate nitrogen	0.45
Discharge (cfs)	0.75
Discharge (mgd)	0.48
Magnitude	4
Date sampled	9/28/97

Siphon



During this survey, one siphon (S6) was identified in Gilchrist County on the riverbank of the Santa Fe River. The siphon is located at Latitude 29° 51' 15" and Longitude 82° 43' 38". It was taking in an estimated 30 cfs (19.2 mgd) of water. Public lands surround this siphon.

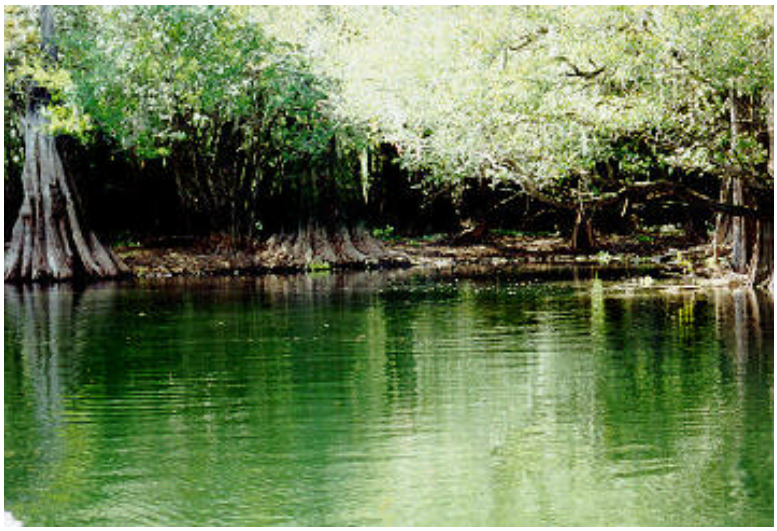
Suwannee County



Map #	Spring Name	Previously cataloged	Page #	Flow (cfs)	Magnitude
59	SUW107971	No	56	20	2
42	Betty	Yes	56	2.5	3
60	SUW917971	No	57	3	3
68	SUW917972	No	57	0.1	4

SUW107971

The spring is located in the riverbed and the maximum depth is 13 feet. The pool area is approximately 60 feet wide.



Latitude:	29° 53’ 48”
Longitude:	82° 52’ 22”
County:	Suwannee
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	349
pH	7.36
Temperature	21.58
Nitrate nitrogen	1.72
Discharge (cfs)	20.0 est.
Discharge (mgd)	12.8 est.
Magnitude	2
Date sampled	10/7/97

Betty

The spring is located on the riverbank, which is surrounded by private property. The maximum depth is 7 feet.

Latitude:	29° 54’ 52”
Longitude:	82° 50’ 24”
County:	Suwannee
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	436
pH	7.29
Temperature	22.0
Nitrate nitrogen	4.54
Discharge (cfs)	2.50
Discharge (mgd)	1.60
Magnitude	3
Date sampled	9/17/97

SUW917971

The spring is located on the riverbank and the maximum depth is 3 feet. The pool area is covered with aquatic weeds. It is located 150 feet downstream of the confluence of the Ichetucknee and Santa Fe Rivers.

Latitude:	29° 55’ 55”
Longitude:	82° 48’ 03”
County:	Suwannee
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	472
pH	7.16
Temperature	21.76
Nitrate nitrogen	0.96
Discharge (cfs)	3.0 est.
Discharge (mgd)	1.92 est.
Magnitude	3
Date sampled	9/17/97

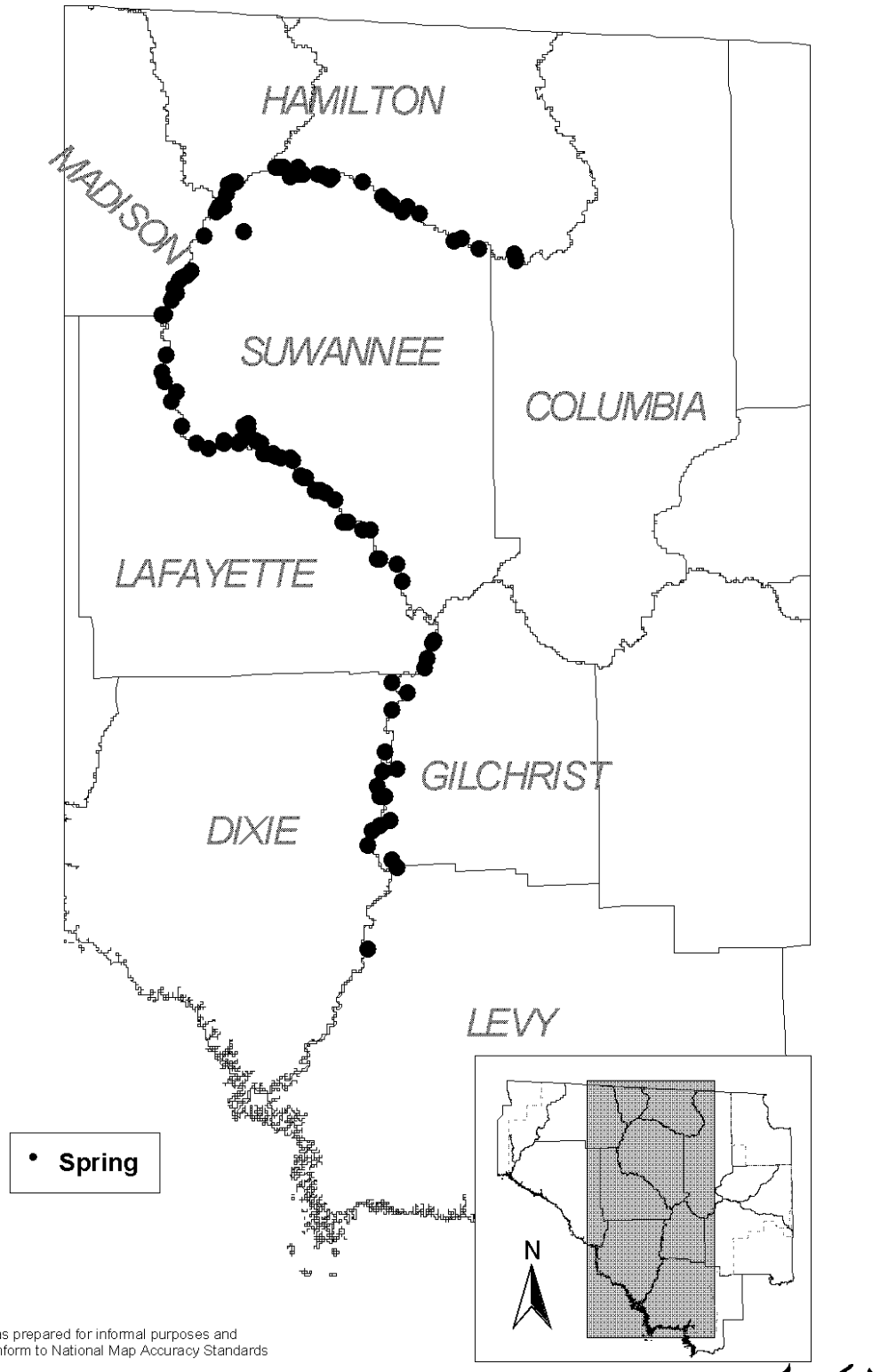
SUW917972

The spring is located on the riverbank, which is surrounded by private property. The pool area is covered with water lettuce. A house is located approximately 250 feet from the spring.

Latitude:	29° 54’ 46”
Longitude:	82° 50’ 42”
County:	Suwannee
Historic Data:	No
River Basin:	Santa Fe

Parameters	**Value**
Sp. Conductance	454
pH	7.48
Temperature	23.41
Nitrate nitrogen	4.68
Discharge (cfs)	0.1 est.
Discharge (mgd)	0.06 est.
Magnitude	4
Date sampled	9/17/97

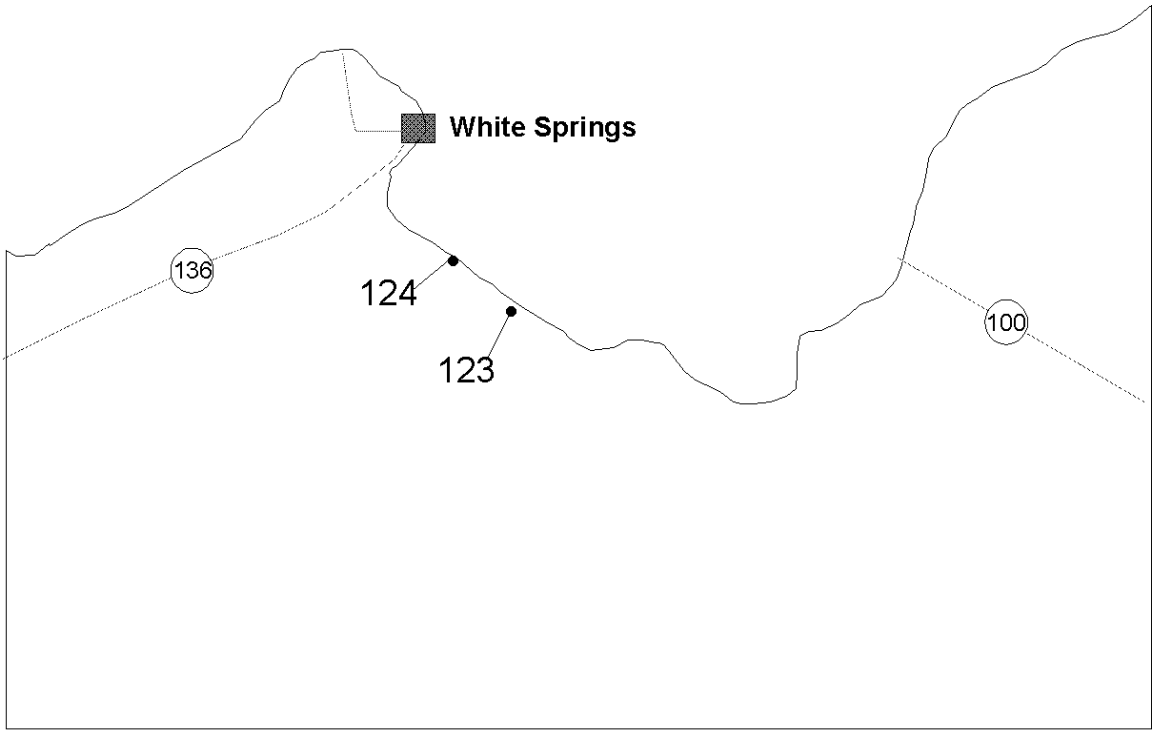
Suwannee River Springs



Note:
This map was prepared for informal purposes and
does not conform to National Map Accuracy Standards

SWIM

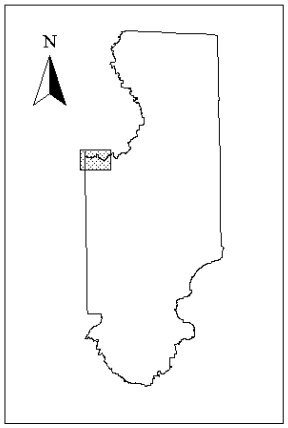
Columbia County



Roads

Spring

Note:
This map is not to scale.



Map #	Spring Name	Previously cataloged	Page #	Flow (cfs)	Magnitude
123	COL522981	No	60	2.15	3
124	COL522982	No	60	3	3

COL522981

The spring is located at the base of the riverbank and flows out of the limestone. The opening is 2 feet wide and 1 foot deep. There is H_2S odor associated with the spring water.

Latitude:	30° 19' 14"
Longitude:	82° 45' 22"
County:	Columbia
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	No Sample
pH	No Sample
Temperature	No Sample
Nitrate nitrogen	0.05
Discharge (cfs)	2.15
Discharge (mgd)	1.38
Magnitude	3
Date sampled	5/22/98

Comments:
Conductivity, pH, and temperature were not collected to prevent fouling of the probes by H_2S in the water.

COL522982

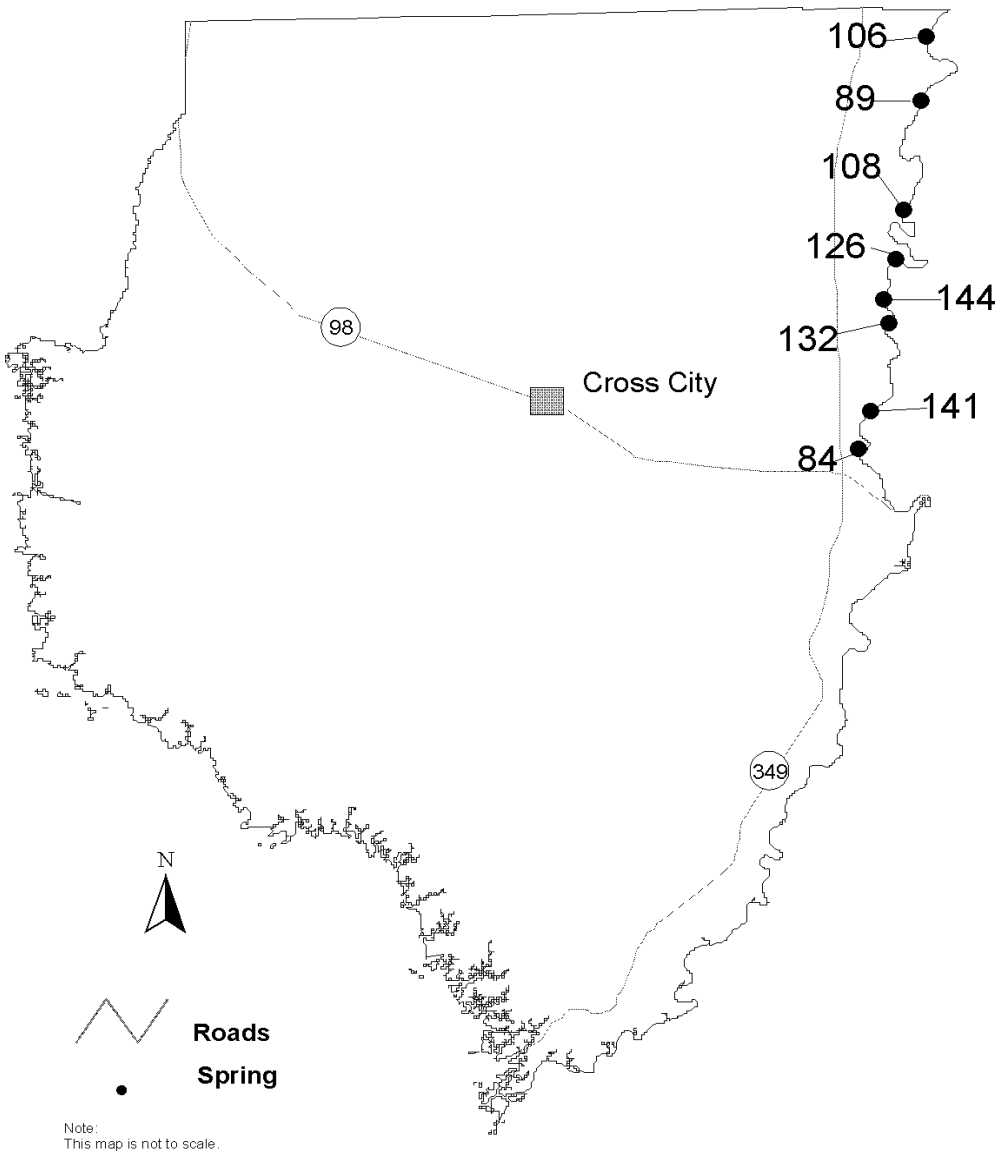
The spring is located in the riverbed. There is H_2S odor associated with the spring water.

Latitude:	30° 19' 19"
Longitude:	82° 45' 30"
County:	Columbia
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	No Sample
pH	No Sample
Temperature	No Sample
Nitrate nitrogen	No Sample
Discharge (cfs)	3 est.
Discharge (mgd)	1.92 est.
Magnitude	3
Date sampled	5/22/98

Comments:
Conductivity, pH, and temperature were not collected to prevent fouling of the probes by H_2S in the water. Due to depth and lack of water clarity, the spring vent could not be located; thus no sample was collected.

Dixie County



Map #	Spring Name	Previously cataloged	Page #	Flow (cfs)	Magnitude
84	Copper	Yes	62	20.73	2
89	Guaranto	Yes	62	12.76	2
106	Pothole	No	63	31.64	2
108	Rock Sink	No	63	10.28	2
132	Iron	No	64	7.18	3
141	Little Copper	Yes	64	6.35	3
126	DIX95971	No	65	5	3
144	McCrabb	Yes	65	5.44	3

Copper

The spring is surrounded by private property. The pool area is 400 feet from the river, approximately 70 feet wide and is surrounded by concrete to create a swimming pool. Three houses are located within 200 feet of the pool area. The run is funneled through culverts for the first 100 feet of the run.

Latitude:	29° 36' 49"
Longitude:	82° 58' 26"
County:	Dixie
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	420
pH	--
Temperature	21.3
Nitrate nitrogen	0.01
Discharge (cfs)	20.73
Discharge (mgd)	13.27
Magnitude	2
Date sampled	9/22/97

Comments:
There is a very pronounced copper colored staining of the bank and trees surrounding the spring due to iron deposition from the spring water.

Guaranto

The spring is located in a county park. The pool area is 125 feet wide and the maximum depth is 10 feet. The run is funneled through a culvert to maintain the water level in the pool area. The pool has hydrilla (approximately 85% coverage).

Latitude:	29° 46' 45"
Longitude:	82° 56' 22"
County:	Dixie
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	366
pH	7.06
Temperature	21.9
Nitrate nitrogen	1.48
Discharge (cfs)	12.76
Discharge (mgd)	8.17
Magnitude	2
Date sampled	7/21/97

Comments:
The spring was restored in the summer of 1997 with SWIM funding. This restoration stabilized the banks to reduce erosion around the spring pool.

Pothole

The spring is located on the riverbank and SRWMD land surrounds the upstream side of the spring. The downstream side of the spring is surrounded by private property and is posted. The pool area is 150 feet wide with a maximum depth of 14 feet.

Latitude:	29° 48’ 37”
Longitude:	82° 56’ 09”
County:	Dixie
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	460
pH	6.38
Temperature	21.8
Nitrate nitrogen	1.48
Discharge (cfs)	31.64
Discharge (mgd)	20.25
Magnitude	2
Date sampled	8/4/97

Rock Sink

SRWMD land surrounds the spring. The run is approximately 50 feet long and there is H_2S odor associated with the spring water.

Latitude:	29° 43’ 40”
Longitude:	82° 56’ 57”
County:	Dixie
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	366
pH	7.25
Temperature	22.2
Nitrate nitrogen	2.08
Discharge (cfs)	10.28
Discharge (mgd)	6.57
Magnitude	2
Date sampled	8/6/98

Iron

The spring is surrounded by private property. The pool area is 35 feet wide and the maximum depth is 5 feet. A boil is present that is approximately 10 feet in diameter and 3 to 4 inches above the surface of the water. The run is approximately 250 feet long and there is H_2S odor associated with the spring water.

Latitude:	29° 40' 25"
Longitude:	82° 57' 27"
County:	Dixie
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	403
pH	6.64
Temperature	21.0
Nitrate nitrogen	0.17
Discharge (cfs)	7.18
Discharge (mgd)	4.60
Magnitude	3
Date sampled	9/19/97

Comments:
There is a pronounced copper colored staining of the bank and trees surrounding the spring due to iron deposition from the spring water.

Little Copper

The spring is surrounded by private property. The pool area is 300 feet from the river. It is approximately 35 feet wide and a boil is present. The spring discharges from a vent that is 3 feet wide and 4.5 feet long.

Latitude:	29° 37' 56"
Longitude:	82° 58' 02"
County:	Dixie
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	437
pH	6.91
Temperature	20.9
Nitrate nitrogen	0.03
Discharge (cfs)	6.35
Discharge (mgd)	4.06
Magnitude	3
Date sampled	9/22/97

Comments:
There is a very pronounced copper colored staining of the bank and trees around the spring due to iron deposition from the spring water.

McCrabb

The spring is surrounded by private property. The pool area is 70 feet wide and the maximum depth is 6 feet. A boil is present that is approximately 8 feet in diameter and 2 to 4 inches above the surface of the water. The run is approximately 50 feet long. There is H_2S odor associated with the spring water.

Latitude:	29° 41' 06"
Longitude:	82° 57' 37"
County:	Dixie
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	431
pH	6.71
Temperature	20.9
Nitrate nitrogen	0.05
Discharge (cfs)	5.44
Discharge (mgd)	3.48
Magnitude	3
Date sampled	9/19/97

Comments:
There is a pronounced copper colored staining of the bank and trees surrounding the spring due to iron deposition from the spring water.

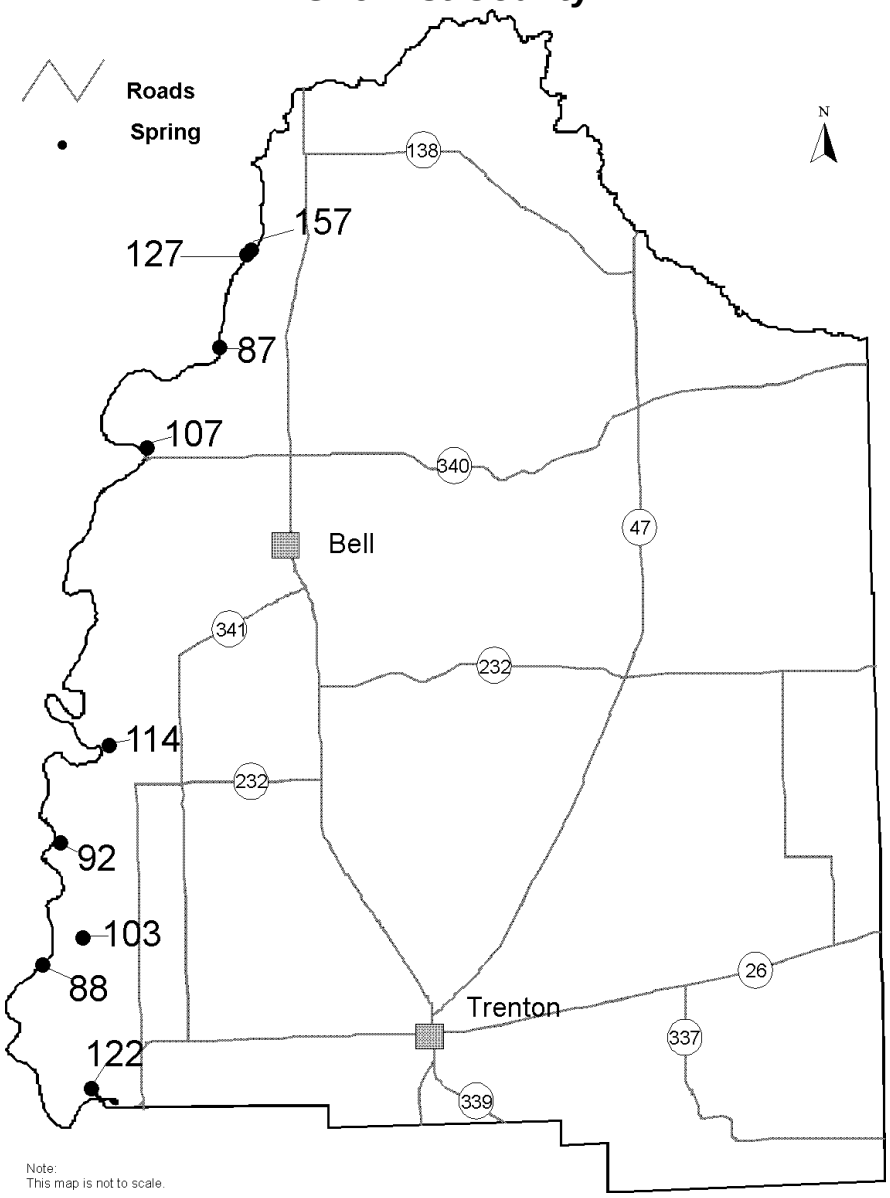
DIX95971

The spring is surrounded by private property. The pool area was not located due to lack of access.

Latitude:	29° 42' 14"
Longitude:	82° 57' 09"
County:	Dixie
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	371
pH	7.41
Temperature	22.8
Nitrate nitrogen	1.86
Discharge (cfs)	5 est.
Discharge (mgd)	3.2 est.
Magnitude	3
Date sampled	8/26/98

Gilchrist County



Map #	Spring Name	Previously cataloged	Page #	Flow (cfs)	Magnitude
92	Hart	Yes	67	51.28	2
103	Otter	Yes	67	21.24	2
107	Rock Bluff	Yes	68	27.64	2
114	Sun	Yes	68	31.15	2
87	GIL84971	No	69	13.96	2
88	GIL94972	No	69	15.3	2
122	Bell	Yes	70	8.89	3
127	GIL917972	No	70	5	3
157	GIL917973	No	71	0.1	4

Hart

The spring is located in a county park and an entrance fee is required. There are two pool areas with a boil present in each pool area. The run is approximately 300 feet long. A cave system is associated with this spring and a map is presented in Appendix E.

Latitude:	29° 40’ 28”
Longitude:	82° 57’ 05”
County:	Gilchrist
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	432
pH	7.11
Temperature	22.3
Nitrate nitrogen	1.19
Discharge (cfs)	51.28
Discharge (mgd)	32.82
Magnitude	2
Date sampled	6/26/97

Comments:
Erosion is evident around the two head springs. The run is lined with concrete seawalls.

Otter

The spring is located in a campground that is privately owned and an entrance fee is required. The pool area is approximately 400 feet wide and the run is approximately 1,500 feet long.

Latitude:	29° 38’ 39”
Longitude:	82° 56’ 38”
County:	Gilchrist
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	433
pH	6.79
Temperature	22.7
Nitrate nitrogen	1.22
Discharge (cfs)	21.24
Discharge (mgd)	13.59
Magnitude	2
Date sampled	9/19/97

Rock Bluff

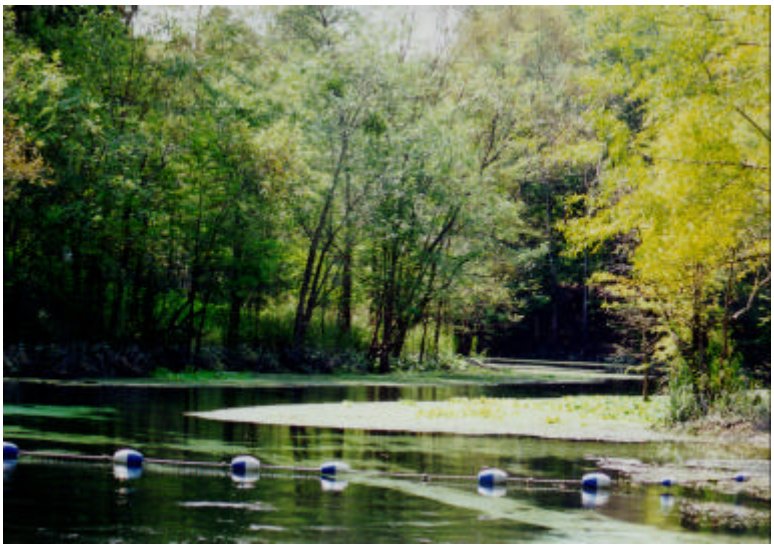
The spring is surrounded by private property and the property is posted. The pool area is approximately 300 feet wide with two boils present. The run is approximately 500 feet long. Both the pool area and the run have Hydrilla present (approximately 60% coverage). There is a cave system associated with this spring and a cave map presented in Appendix E.

Latitude:	29° 47’ 55”
Longitude:	82° 55’ 07”
County:	Gilchrist
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	307*
pH	7.05*
Temperature	21.9*
Nitrate nitrogen	0.97*
Discharge (cfs)	27.64**
Discharge (mgd)	17.69**
Magnitude	2**
Date sampled	8/19/97* 7/17/97**

Sun

The spring is surrounded by private property. The pool area is approximately 200 feet wide and the run is approximately 1,500 feet long. The run has Hydrilla present (approximately 90% coverage).



Latitude:	29° 42’ 17”
Longitude:	82° 56’ 01”
County:	Gilchrist
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	366
pH	6.93
Temperature	23.3
Nitrate nitrogen	1.79
Discharge (cfs)	31.15
Discharge (mgd)	19.94
Magnitude	2
Date sampled	9/19/97

GIL84971

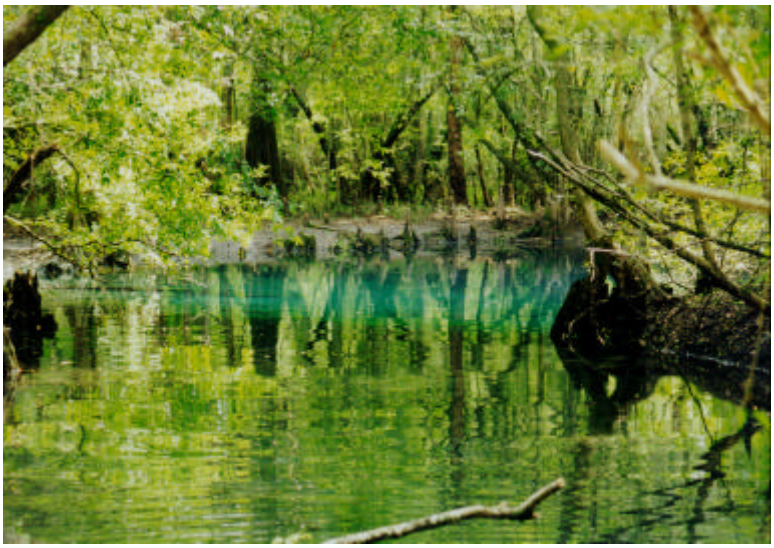
The spring is surrounded by private property. The pool area is approximately 25 feet wide and the maximum depth is 15 feet.

Latitude:	29° 49’ 46”
Longitude:	82° 53’ 29”
County:	Gilchrist
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	244
pH	7.12
Temperature	22.51
Nitrate nitrogen	1.44
Discharge (cfs)	13.96
Discharge (mgd)	8.93
Magnitude	2
Date sampled	8/4/97

GIL94972

The spring is surrounded by private property. The pool area is approximately 75 feet wide with a maximum depth of 24 feet. The run is approximately 150 feet long.



Also Known As:	Little Otter
Latitude:	29° 38’ 10”
Longitude:	82° 57’ 31”
County:	Gilchrist
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	404
pH	6.98
Temperature	22.40
Nitrate nitrogen	1.58
Discharge (cfs)	15.30
Discharge (mgd)	9.79
Magnitude	2
Date sampled	9/4/97

Bell

The spring is located in a park that is privately owned. The pool area is approximately 250 feet wide with a maximum depth of 12 feet. Six areas on the bottom of the spring pool were observed to have flow through the sand. The run is approximately 1,000 feet long.

Latitude:	29° 35’ 49”
Longitude:	82° 56’ 29”
County:	Gilchrist
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	413
pH	6.86
Temperature	22.54
Nitrate nitrogen	2.78
Discharge (cfs)	8.89
Discharge (mgd)	5.69
Magnitude	3
Date sampled	9/4/97

GIL917972

The spring is located on the riverbank and is surrounded by private property, which is posted. A concrete block wall encloses the spring pool. A boil is present in the pool area.

Latitude:	29° 51’ 36”
Longitude:	82° 52’ 46”
County:	Gilchrist
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	263
pH	7.51
Temperature	22.15
Nitrate nitrogen	0.99
Discharge (cfs)	5.0 est.
Discharge (mgd)	3.2 est.
Magnitude	3
Date sampled	9/17/97

GIL917973

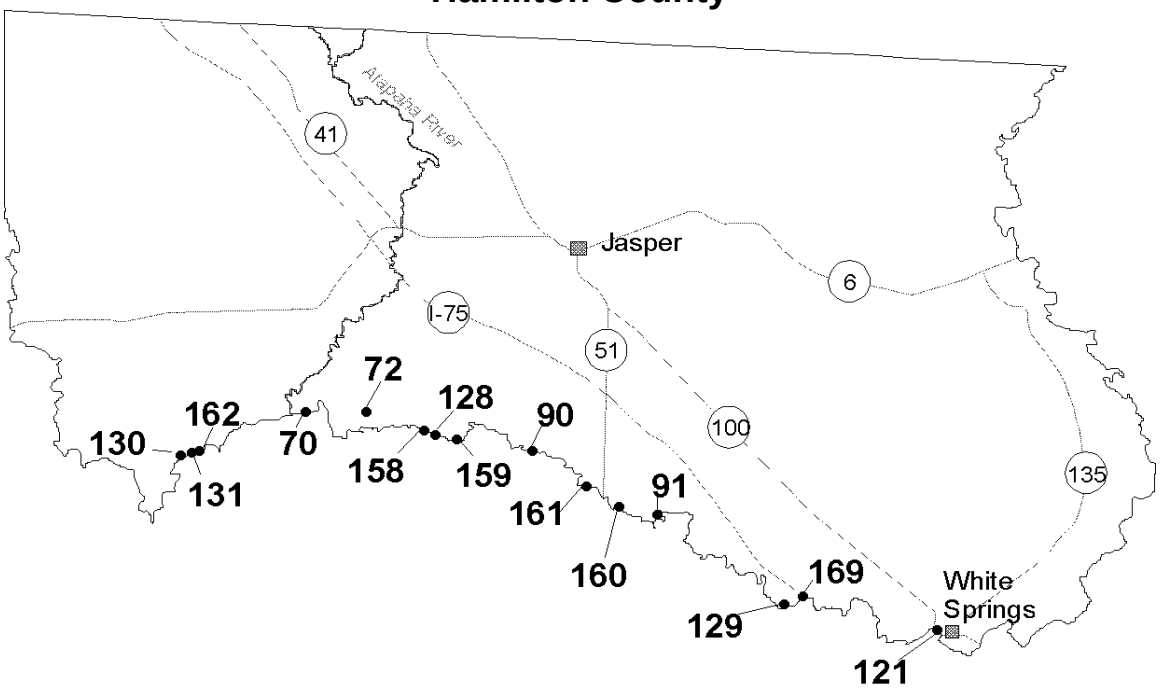
The spring is located on the riverbank and flows from limestone.

Latitude:	29° 51’ 31”
Longitude:	82° 52’ 51”
County:	Gilchrist
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	353
pH	7.35
Temperature	21.74
Nitrate nitrogen	0.12
Discharge (cfs)	0.1 est.
Discharge (mgd)	0.06 est.
Magnitude	4
Date sampled	9/17/97

(Blank)

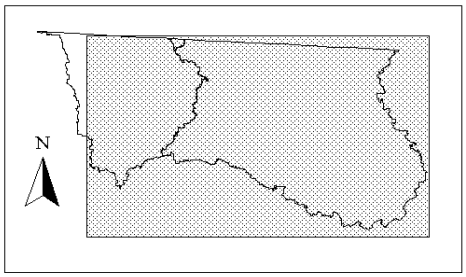
Hamilton County



Roads

Spring

Note:
This map is not to scale.



Map #	Spring Name	Previously cataloged	Page #	Flow (cfs)	Magnitude
70	Alapaha Rise	Yes	73	800.4	1
72	Holton Creek Rise	Yes	73	167	1
91	HAM1023971	No	74	15	2
121	White	Yes	74	69.7	2
90	HAM1017974	No	75	5	2
130	HAM923971	No	75	9.61	3
131	HAM923973	No	76	9.16	3
128	HAM1017971	No	76	2.11	3
129	HAM522981	No	77	1.51	3
169	Louisa	Yes	77	0.29	4
158	HAM1017972	No	78	0.3	4
162	HAM923972	No	78	0.1	4
159	HAM1017973	No	79	0.3	4
160	HAM1019971	No	79	0.5	4
161	HAM1019972	No	80	0.3	4

Alapaha Rise

The spring is surrounded by private property. The pool area is approximately 125 feet wide and the run is 1,500 feet long. The spring discharges tannic colored water (blackwater).

Latitude:	30° 26’ 15”
Longitude:	83° 05’ 22”
County:	Hamilton
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	314*
pH	6.78*
Temperature	21.4*
Nitrate nitrogen	0.24*
Discharge (cfs)	800.4**
Discharge (mgd)	512.27**
Magnitude	1**
Date sampled	9/25/97* 5/19/98**

Comments:
This spring is believed to be the re-emergence of the Alapaha River, which goes underground approximately ten miles upgradient of the spring.

Holton Creek Rise

The spring is surrounded by SRWMD land. The spring pool area is approximately 250 feet wide and it discharges tannic colored water (blackwater).

Latitude:	30° 26’ 14”
Longitude:	83° 03’ 28”
County:	Hamilton
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	420*
pH	7.47*
Temperature	21.67*
Nitrate nitrogen	0.40*
Discharge (cfs)	167.0**
Discharge (mgd)	106.88**
Magnitude	1**
Date sampled	9/25/97* 6/8/98**

White

The spring is in Stephen Foster State Park and an entrance fee is required. The pool area was enclosed in the 1900's to create a bathhouse. The pool area is approximately 125 feet wide. The spring discharges water, which has a slight tannic color and H_2S odor.

Latitude:	30° 19' 46"
Longitude:	82° 45' 40"
County:	Hamilton
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	270
pH	--
Temperature	21.2
Nitrate nitrogen	0.01
Discharge (cfs)	69.7
Discharge (mgd)	44.61
Magnitude	2
Date sampled	9/25/97

HAM1023971

The spring flows from the limestone along the riverbank. The opening is approximately 6 feet wide and 7 feet deep. There is H_2S odor associated with the water.

Latitude:	30° 23' 10"
Longitude:	82° 54' 22"
County:	Hamilton
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	No Sample
pH	No Sample
Temperature	No Sample
Nitrate nitrogen	0.01
Discharge (cfs)	15.0 est.
Discharge (mgd)	9.6 est.
Magnitude	2
Date sampled	10/23/97

Comments:
Conductivity, pH, and temperature were not collected to prevent fouling of the probes by H_2S in the water.

HAM1017974

The spring is located in the riverbed and there is H_2S odor associated with the water.

Latitude:	30° 25’ 02”
Longitude:	82° 58’ 15”
County:	Hamilton
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	No Sample
pH	No Sample
Temperature	No Sample
Nitrate nitrogen	No Sample
Discharge (cfs)	5.0 est.
Discharge (mgd)	3.2 est.
Magnitude	2
Date sampled	10/17/97

Comments:
Conductivity, pH, and temperature were not collected to prevent fouling of the probes by H_2S in the water.

HAM923971

The spring is surrounded by public land. It flows into the Suwannee River at the base of the riverbank through a cave that is 15 feet wide and 6 feet high. There are a series of sinkholes associated with this spring.

Also Known As:	Seven Sisters
Latitude:	30° 25’ 02”
Longitude:	83° 09’ 19”
County:	Hamilton
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	339
pH	7.52
Temperature	20.02
Nitrate nitrogen	0.59
Discharge (cfs)	9.61
Discharge (mgd)	6.15
Magnitude	3
Date sampled	9/23/97

HAM923973

The spring is surrounded by public land. The pool area is approximately 10 feet wide and the spring vent is 3 feet in diameter. The run is 55 feet long.

Latitude:	30° 25' 07"
Longitude:	83° 08' 57"
County:	Hamilton
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	383
pH	6.96
Temperature	19.50
Nitrate nitrogen	0.02
Discharge (cfs)	9.16
Discharge (mgd)	5.86
Magnitude	3
Date sampled	6/9/98

Comments:
This spring does not flow during periods of low groundwater levels.

HAM1017971

The spring is surrounded by public land. The spring vent is 2.5 feet in diameter. Rocks have been placed in the run to impound the spring. The run is approximately 30 feet long and the water has a yellowish-brown color.

Latitude:	30° 25' 33"
Longitude:	83° 01' 20"
County:	Hamilton
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	309
pH	7.14
Temperature	20.53
Nitrate nitrogen	1.17
Discharge (cfs)	2.11
Discharge (mgd)	1.35
Magnitude	3
Date sampled	6/18/98

Comments:
This spring does not flow during periods of low groundwater levels.

HAM522981

The spring is located on the riverbank, which is private property. There is H_2S odor associated with the spring water.

Latitude:	30° 20’ 35”
Longitude:	82° 50’ 29”
County:	Hamilton
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	No Sample
pH	No Sample
Temperature	No Sample
Nitrate nitrogen	0.06
Discharge (cfs)	1.51
Discharge (mgd)	0.97
Magnitude	3
Date sampled	5/22/98

Comments:
Conductivity, pH, and temperature were not collected to prevent fouling of the probes by H_2S in the water.

Louisa

The spring is surrounded by private property and the water has H_2S odor.

Latitude:	30° 20’ 47”
Longitude:	82° 49’ 54”
County:	Hamilton
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	no sample
pH	no sample
Temperature	no sample
Nitrate nitrogen	0.37
Discharge (cfs)	0.29
Discharge (mgd)	0.18
Magnitude	4
Date sampled	5/22/98

Comments:
Conductivity, pH, and temperature were not collected to prevent fouling of the probes by H_2S in the water.

HAM923972

The spring flows from limestone in the riverbank.

Latitude:	30° 25’ 08”
Longitude:	83° 08’ 42”
County:	Hamilton
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	409
pH	7.14
Temperature	19.75
Nitrate nitrogen	0.18
Discharge (cfs)	0.1 est.
Discharge (mgd)	0.06 est.
Magnitude	4
Date sampled	9/23/97

HAM1017972

The spring flows from limestone in the riverbank.

Latitude:	30° 25’ 40”
Longitude:	83° 01’ 40”
County:	Hamilton
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	271
pH	7.28
Temperature	19.29
Nitrate nitrogen	0.4
Discharge (cfs)	0.3 est.
Discharge (mgd)	0.19 est.
Magnitude	4
Date sampled	10/17/97

HAM1017973

The spring flows from limestone in the riverbank. There is H_2S odor associated with the water.

Latitude:	30° 25’ 23”
Longitude:	83° 00’ 38”
County:	Hamilton
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	No Sample
pH	No Sample
Temperature	No Sample
Nitrate nitrogen	0.01
Discharge (cfs)	0.3 est.
Discharge (mgd)	0.19 est.
Magnitude	4
Date sampled	10/17/97

Comments:
Conductivity, pH, and temperature were not collected to prevent fouling of the probes by H_2S in the water.

HAM1019971

The spring is located on the riverbank and flows from limestone along the riverbank. There is H_2S odor associated with the water.

Latitude:	30° 23’ 24”
Longitude:	82° 55’ 36”
County:	Hamilton
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	No Sample
pH	No Sample
Temperature	No Sample
Nitrate nitrogen	0.01
Discharge (cfs)	0.5 est.
Discharge (mgd)	0.32 est.
Magnitude	4
Date sampled	10/19/97

Comments:
Conductivity, pH, and temperature were not collected to prevent fouling of the probes by H_2S in the water.

HAM1019972

The spring is located on the riverbank and flows from limestone along the riverbank. There is H_2S odor associated with the water.

Latitude:	30° 24’ 01”
Longitude:	82° 56’ 35”
County:	Hamilton
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	No Sample
pH	No Sample
Temperature	No Sample
Nitrate nitrogen	0.01
Discharge (cfs)	0.3 est.
Discharge (mgd)	0.19 est.
Magnitude	4
Date sampled	10/19/97

Comments:
Conductivity, pH, and temperature were not collected to prevent fouling of the probes by H_2S in the water.

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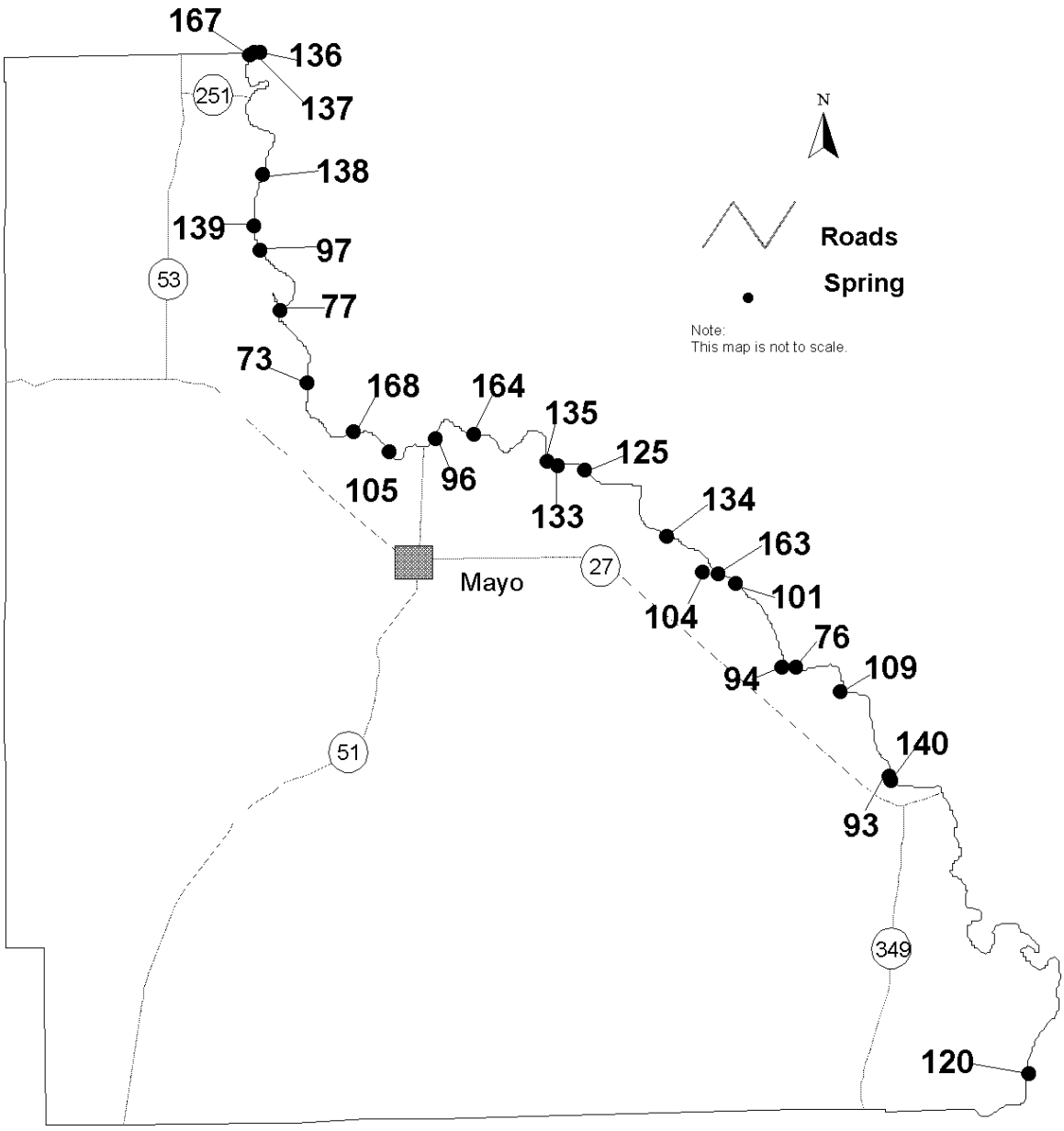
Lafayette County



Map #	Spring Name	Previously cataloged	Page #	Flow (cfs)	Magnitude
73	Blue	Yes	83	162	1
76	Troy	Yes	83	137.58	1
77	Allen Mill Pond	Yes	84	11.23	2
101	Mearson	Yes	84	68.52	2
104	Owens	Yes	85	90	2
105	Perry	Yes	85	37.8	2
109	Ruth	Yes	86	14.35	2
120	Turtle	Yes	86	36.39	2
93	LAF718971	No	87	10.84	2
94	LAF718972	No	87	10.6	2
96	LAF924971	No	88	12.99	2
97	LAF929973	No	88	10	2
125	Convict	Yes	89	6.31	3
140	LAF93971	No	89	3.77	3
135	LAF919972	No	90	3.8	3
136	LAF922975	No	90	3.58	3
137	LAF922976	No	91	1.09	3
138	LAF929971	No	91	5	3
133	LAF57981	No	92	3.83	3
139	LAF929972	No	92	2.4	3
134	LAF57982	No	93	5	3
164	LAF919971	No	93	0.17	4
167	LAF922977	No	94	0.5	4
168	LAF924972	No	94	0.1	4
163	LAF710981	No	95	1	4

Blue

The spring is located in a county park and an entrance fee is required. There is a natural limestone bridge across the run. The pool area is approximately 125 feet wide with a maximum depth of 21 feet. There is a cave system associated with this spring and a cave map presented in Appendix E.

Latitude:	30° 07' 31"
Longitude:	83° 13' 32"
County:	Lafayette
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	424*
pH	7.21*
Temperature	21.7*
Nitrate nitrogen	1.87*
Discharge (cfs)	162.0**
Discharge (mgd)	103.7**
Magnitude	1**
Date sampled	7/16/97* 6/15/98**

Troy

Public land surrounds the spring. The pool area is approximately 150 feet wide with a maximum depth of 48 feet. The run is approximately 250 feet long. Exposed limestone in the pool area and run were covered with algae.

Latitude:	30° 00' 21"
Longitude:	82° 59' 51"
County:	Lafayette
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	371
pH	7.27
Temperature	21.3
Nitrate nitrogen	2.68
Discharge (cfs)	137.58
Discharge (mgd)	88.05
Magnitude	1
Date sampled	7/7/97

Comments:
There is a sunken Civil War era boat in the run.

Allen Mill Pond

SRWMD land surrounds the spring. The run has been altered in the past to accommodate a water-powered mill.

Latitude:	30° 09’ 17”
Longitude:	83° 14’ 17”
County:	Lafayette
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	390
pH	6.68
Temperature	21.2
Nitrate nitrogen	1.24
Discharge (cfs)	11.23
Discharge (mgd)	7.19
Magnitude	2
Date sampled	9/23/97

Mearson

The spring is located on the riverbank, which is posted private property. The pool area is approximately 60 feet wide with a maximum depth of 22 feet. There is a large boil, approximately 15 feet in diameter, in the pool area.

Latitude:	30° 02’ 27”
Longitude:	83° 01’ 30”
County:	Lafayette
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	377
pH	6.94
Temperature	21.4
Nitrate nitrogen	1.68
Discharge (cfs)	68.52
Discharge (mgd)	43.85
Magnitude	2
Date sampled	9/15/97

Owens

The spring is surrounded by private property, which is posted. The pool area is approximately 120 feet wide.

Latitude:	30° 02’ 44”
Longitude:	83° 02’ 28”
County:	Lafayette
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	402
pH	7.88
Temperature	21.07
Nitrate nitrogen	3.46
Discharge (cfs)	90 est.
Discharge (mgd)	57.6 est.
Magnitude	2
Date sampled	6/2/98

Comments:
This feature is not a spring, but a karst window. This spring flows intermittently. When the spring flows, it flows for approximately 300 feet, where it is captured by a sinkhole and re-enters the Floridan aquifer system. Under extremely high groundwater levels, the water will flow over land to the Suwannee River.

Perry

The spring is surrounded by private property. The pool area is 65 feet wide with a maximum depth of 4 feet. A concrete wall has been placed at the mouth of the run to increase the water level in the pool area.

Latitude:	30° 05’ 46”
Longitude:	83° 11’ 17”
County:	Lafayette
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	391
pH	7.49
Temperature	21.37
Nitrate nitrogen	2.63
Discharge (cfs)	37.80
Discharge (mgd)	24.19
Magnitude	2
Date sampled	9/24/97

Ruth

SRWMD land surrounds the spring. The pool area is 60 feet wide with a maximum depth of 4.5 feet. The run is approximately 250 feet long.

Also Known As:	Little Sulfur
Latitude:	29° 59' 44"
Longitude:	82° 58' 37"
County:	Lafayette
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	415
pH	6.84
Temperature	21.1
Nitrate nitrogen	5.40
Discharge (cfs)	14.35
Discharge (mgd)	9.18
Magnitude	2
Date sampled	6/24/97

Turtle

The spring is surrounded by private property. The pool area is approximately 75 feet wide with a maximum depth of 22 feet and a boil is present.

Latitude:	29° 50' 49"
Longitude:	82° 53' 25"
County:	Lafayette
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	382
pH	6.72
Temperature	21.9
Nitrate nitrogen	0.69
Discharge (cfs)	36.39
Discharge (mgd)	23.29
Magnitude	2
Date sampled	9/22/97

LAF718971

The spring is located on the riverbank, which is private property. There is H_2S odor associated with the water.

Latitude:	29° 57’ 33”
Longitude:	82° 57’ 12”
County:	Lafayette
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	395
pH	7.11
Temperature	21.66
Nitrate nitrogen	0.76
Discharge (cfs)	10.84
Discharge (mgd)	6.94
Magnitude	2
Date sampled	7/18/97

LAF718972

The spring is located in the riverbed. At higher river levels, this spring will flow from a sinkhole located behind the riverbank. Water flows from a crack in the riverbed that is 5.2 feet long with a maximum width of 2.7 feet and the boil rises 5 inches above the river level.

Latitude:	30° 00’ 21”
Longitude:	83° 00’ 16”
County:	Lafayette
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	377
pH	7.07
Temperature	21.93
Nitrate nitrogen	2.36
Discharge (cfs)	10.6
Discharge (mgd)	6.78
Magnitude	2
Date sampled	7/18/97

LAF924971

The spring is located on the riverbank. It flows from a cave, which is 12 feet wide at the base of the riverbank.

Latitude:	30° 06’ 07”
Longitude:	83° 09’ 58”
County:	Lafayette
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	361
pH	7.40
Temperature	21.57
Nitrate nitrogen	3.19
Discharge (cfs)	12.99
Discharge (mgd)	8.31
Magnitude	2
Date sampled	9/24/97

LAF929973

The spring is located at the base of the riverbank. It flows from a series of vents along approximately 30 feet of riverbank.

Latitude:	30° 10’ 46”
Longitude:	83° 14’ 52”
County:	Lafayette
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	393
pH	7.47
Temperature	21.47
Nitrate nitrogen	1.21
Discharge (cfs)	10.0 est.
Discharge (mgd)	6.4 est.
Magnitude	2
Date sampled	9/29/97

Convict

The spring is located in a private park, which has an entrance fee. The pool area has been completely surrounded with concrete to make a swimming pool area. The pool area is approximately 35 feet wide with a maximum depth of 25 feet.

Latitude:	30° 05’ 17”
Longitude:	83° 05’ 45”
County:	Lafayette
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	436
pH	7.14
Temperature	21.6
Nitrate nitrogen	8.58
Discharge (cfs)	6.31
Discharge (mgd)	4.03
Magnitude	3
Date sampled	7/7/97

LAF93971

The spring is located on private property and is posted. It is approximately 1,000 feet from the river and flows through the floodplain. There has been some modification to the run, which results in raising the water level in the pool area.

Latitude:	29° 57’ 40”
Longitude:	82° 57’ 16”
County:	Lafayette
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	412
pH	6.91
Temperature	24.88
Nitrate nitrogen	0.90
Discharge (cfs)	3.77
Discharge (mgd)	2.41
Magnitude	3
Date sampled	9/3/97

LAF919972

The spring is located on the riverbank and the water flows from two bedding planes within the limestone.

Latitude:	30° 05’ 31”
Longitude:	83° 06’ 48”
County:	Lafayette
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	438
pH	7.25
Temperature	21.35
Nitrate nitrogen	2.99
Discharge (cfs)	3.80
Discharge (mgd)	2.43
Magnitude	3
Date sampled	9/19/97

LAF922975

The spring flows from limestone in the riverbank.

Latitude:	30° 15’ 39”
Longitude:	83° 14’ 47”
County:	Lafayette
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	396
pH	7.30
Temperature	20.25
Nitrate nitrogen	0.03
Discharge (cfs)	3.58
Discharge (mgd)	2.29
Magnitude	3
Date sampled	9/22/97

LAF922976

The spring is located on the riverbank and the water flows from limestone at the base of the riverbank.

Latitude:	30° 15’ 38”
Longitude:	83° 14’ 58”
County:	Lafayette
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	362
pH	7.42
Temperature	21.34
Nitrate nitrogen	0.24
Discharge (cfs)	1.09
Discharge (mgd)	0.70
Magnitude	3
Date sampled	9/22/97

LAF929971

The spring is located in the riverbed. It is possibly connected to a sinkhole located behind the riverbank.

Latitude:	30° 12’ 37”
Longitude:	83° 14’ 45”
County:	Lafayette
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	431
pH	7.41
Temperature	20.52
Nitrate nitrogen	1.32
Discharge (cfs)	5.0 est.
Discharge (mgd)	3.2 est.
Magnitude	3
Date sampled	9/29/97

LAF929972

The spring is located on the riverbank and is surrounded by private property. The run is approximately 80 feet long.

Latitude:	30° 11’ 23”
Longitude:	83° 15’ 01”
County:	Lafayette
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	398
pH	7.48
Temperature	21.11
Nitrate nitrogen	0.88
Discharge (cfs)	2.40
Discharge (mgd)	1.54
Magnitude	3
Date sampled	9/29/97

LAF57981

The spring is located in the floodplain on private property. The main pool area is approximately 150 feet wide and the run is approximately 350 feet long.

Latitude:	30° 05’ 25”
Longitude:	83° 06’ 31”
County:	Lafayette
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	396
pH	7.59
Temperature	20.72
Nitrate nitrogen	2.87
Discharge (cfs)	3.83
Discharge (mgd)	2.45
Magnitude	3
Date sampled	5/7/98

LAF57982

The spring is located on the riverbank and is surrounded by private property. The pool area is approximately 10 feet wide and the run is approximately 30 feet long. Water flows from limestone, and there are three boils present.

Latitude:	30° 03' 37"
Longitude:	83° 03' 28"
County:	Lafayette
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	338
pH	7.64
Temperature	19.08
Nitrate nitrogen	2.52
Discharge (cfs)	5 est.
Discharge (mgd)	3.2 est.
Magnitude	3
Date sampled	5/7/98

LAF919971

The spring flows from limestone just below the surface.

Latitude:	30° 06' 11"
Longitude:	83° 08' 51"
County:	Lafayette
Historic Data:	No
River Basin:	Suwannee

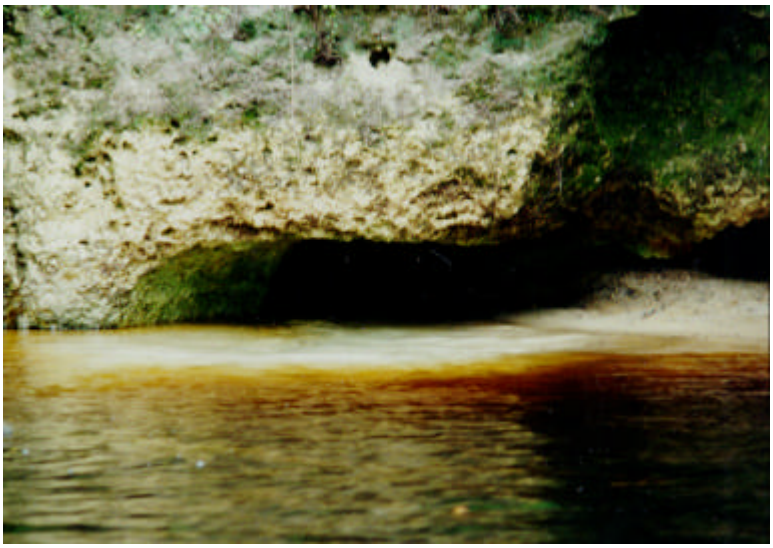
Parameters	**Value**
Sp. Conductance	200
pH	7.39
Temperature	21.35
Nitrate nitrogen	1.62
Discharge (cfs)	0.17
Discharge (mgd)	0.11
Magnitude	4
Date sampled	9/19/97

LAF922977

The spring flows from a small cave at the base of the riverbank.

Latitude:	30° 15’ 34”
Longitude:	83° 15’ 05”
County:	Lafayette
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	254
pH	7.39
Temperature	21.53
Nitrate nitrogen	0.38
Discharge (cfs)	0.5 est.
Discharge (mgd)	0.32 est.
Magnitude	4
Date sampled	9/22/97



LAF924972

The spring flows from limestone in the riverbank.

Latitude:	30° 06’ 17”
Longitude:	83° 12’ 14”
County:	Lafayette
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	432
pH	7.07
Temperature	19.71
Nitrate nitrogen	0.18
Discharge (cfs)	0.1 est.
Discharge (mgd)	0.06 est.
Magnitude	4
Date sampled	9/24/97

LAF710981

The spring is located on the riverbank and is surrounded by private property. Water flows from limestone and the sound of running water can be heard coming from the riverbank.

Latitude:	30° 02’ 42”
Longitude:	83° 02’ 01”
County:	Lafayette
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	360
pH	7.16
Temperature	18.81
Nitrate nitrogen	0.50
Discharge (cfs)	1 est.
Discharge (mgd)	0.64 est.
Magnitude	4
Date sampled	7/10/98

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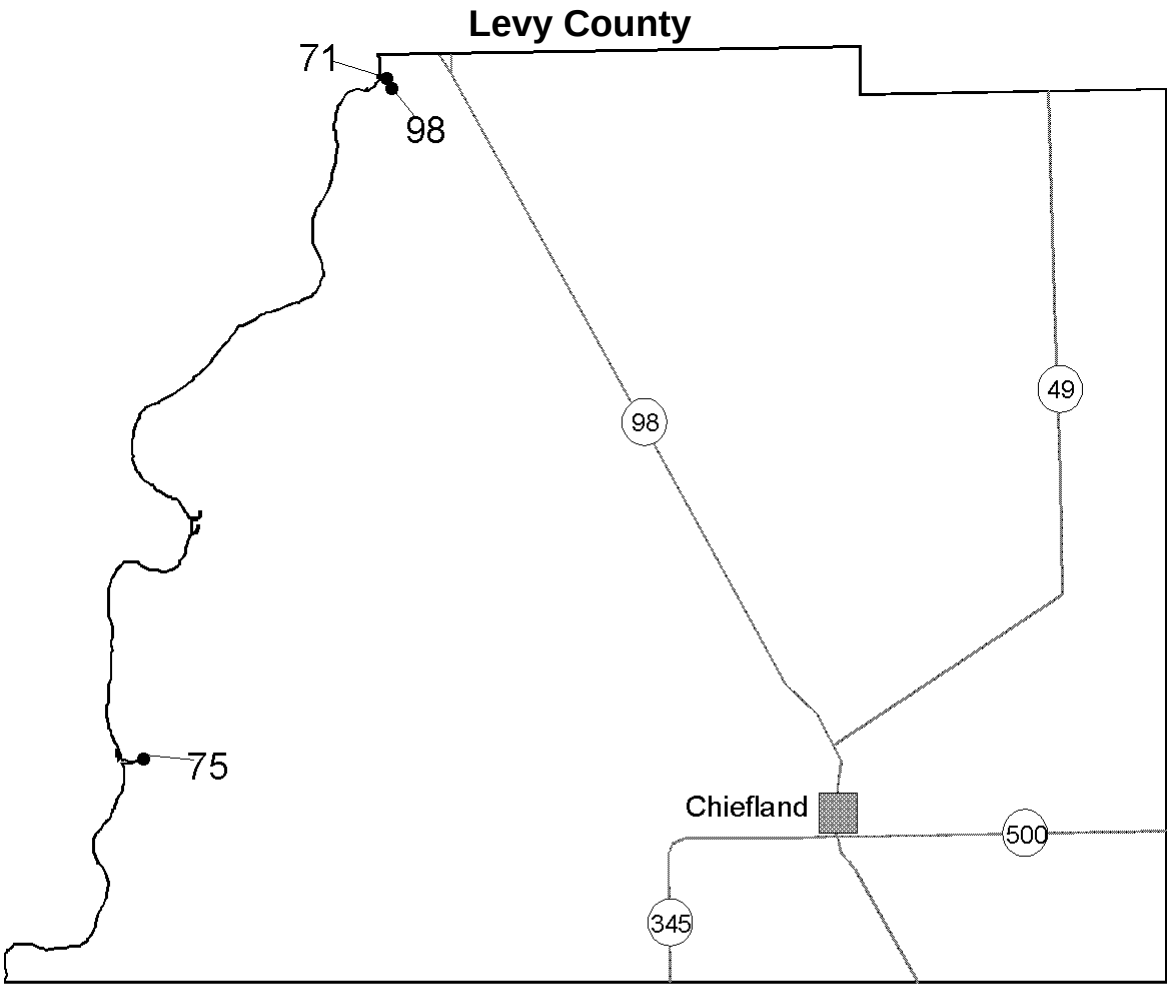
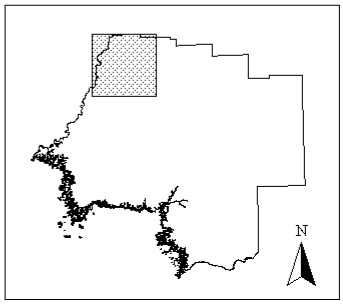


Roads

Spring

Note:
This map is not to scale.



Map #	Spring Name	Previously cataloged	Page #	Flow (cfs)	Magnitude
71	Fannin	Yes	97	109	1
75	Manatee	Yes	97	141.67	1
98	Little Fannin	Yes	98	14.25	2

Fannin

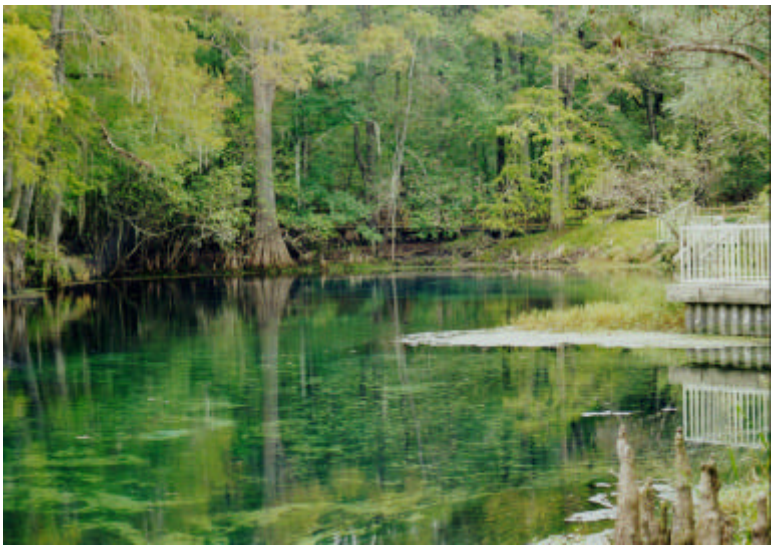
The spring is located in Fannin Springs State Park and an entrance fee is required. The pool area is approximately 175 feet wide with a maximum depth of 21 feet and a boil is present in the pool area. The run is approximately 300 feet long.

Latitude:	29° 35' 14"
Longitude:	82° 56' 07"
County:	Levy
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	437*
pH	7.01*
Temperature	22.6*
Nitrate nitrogen	3.69*
Discharge (cfs)	109.0**
Discharge (mgd)	69.76**
Magnitude	1**
Date sampled	8/18/97* 6/15/98**

Manatee

The spring is located in Manatee Springs State Park and an entrance fee is required. The pool area is approximately 150 feet wide and a boil is present. The run is approximately 1,000 feet long. There is a cave system associated with this spring and a cave map presented in Appendix E.



Latitude:	29° 29' 21"
Longitude:	82° 58' 37"
County:	Levy
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	463
pH	7.14
Temperature	22.2
Nitrate nitrogen	1.35
Discharge (cfs)	141.67
Discharge (mgd)	90.67
Magnitude	1
Date sampled	6/25/97

Little Fannin

The spring is located in Fannin Springs State Park and an entrance fee is required. The run is approximately 350 feet long and a boil is present in the pool area.

Latitude:	29° 35’ 09”
Longitude:	82° 56’ 04”
County:	Levy
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	435
pH	6.90
Temperature	22.5
Nitrate nitrogen	3.67
Discharge (cfs)	14.25
Discharge (mgd)	9.12
Magnitude	2
Date sampled	8/18/97

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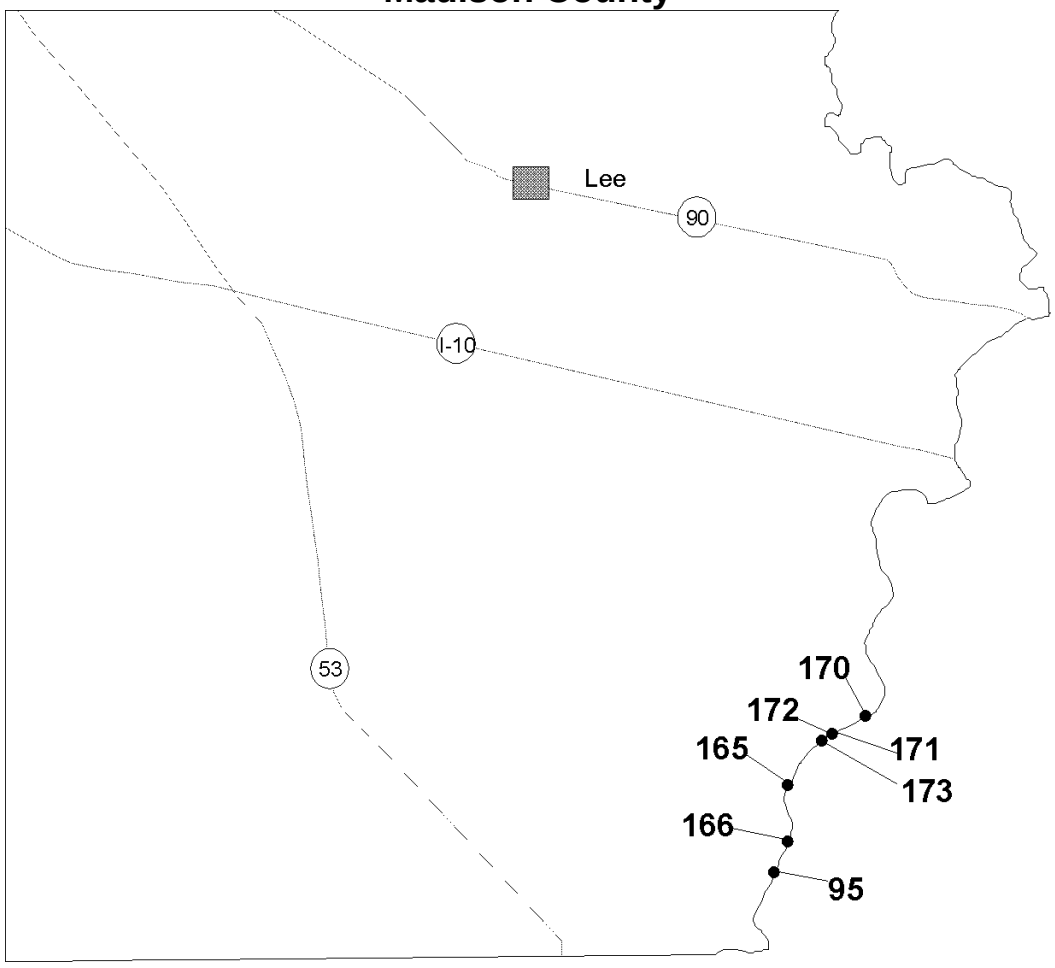
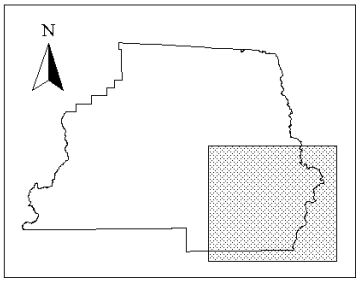
Madison County



Roads

Spring

Note:
This map is not to scale.



Map #	Spring Name	Previously cataloged	Page #	Flow (cfs)	Magnitude
95	MAD922977	No	100	10.43	2
170	MAD922971	No	100	0.19	4
171	MAD922972	No	101	0.1	4
172	MAD922973	No	101	0.12	4
165	MAD922975	No	102	0.3	4
173	MAD922974	No	102	0.26	4
166	MAD922976	No	103	0.3	4

MAD922977

The spring is located on the riverbank, which is on private property and there is a sinkhole associated with it.

Also Known As:	Fara
Latitude:	30° 16’ 34”
Longitude:	83° 14’ 09”
County:	Madison
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	323
pH	7.47
Temperature	21.01
Nitrate nitrogen	0.29
Discharge (cfs)	10.43
Discharge (mgd)	6.68
Magnitude	2
Date sampled	9/22/97

MAD922971

The spring flows from limestone in the riverbank.

Latitude:	30° 18’ 24”
Longitude:	83° 12’ 53”
County:	Madison
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	486
pH	7.13
Temperature	19.76
Nitrate nitrogen	0.25
Discharge (cfs)	0.19
Discharge (mgd)	0.12
Magnitude	4
Date sampled	9/22/97

MAD922972

The spring flows from limestone in the riverbank.

Latitude:	30° 18’ 12”
Longitude:	83° 13’ 20”
County:	Madison
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	479
pH	7.12
Temperature	19.94
Nitrate nitrogen	0.11
Discharge (cfs)	0.10 est.
Discharge (mgd)	0.06 est.
Magnitude	4
Date sampled	9/22/97

MAD922973

The spring flows from limestone in the riverbank.

Latitude:	30° 18’ 08”
Longitude:	83° 13’ 29”
County:	Madison
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	284
pH	7.25
Temperature	20.17
Nitrate nitrogen	0.27
Discharge (cfs)	0.12
Discharge (mgd)	0.07
Magnitude	4
Date sampled	9/22/97

MAD922974

The spring flows from limestone in the riverbank.

Latitude:	30° 18’ 08”
Longitude:	83° 13’ 29”
County:	Madison
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	379
pH	7.32
Temperature	20.2
Nitrate nitrogen	0.26
Discharge (cfs)	0.26
Discharge (mgd)	0.16
Magnitude	4
Date sampled	9/22/97

MAD922975

The spring flows from limestone in the riverbank.

Latitude:	30° 17’ 36”
Longitude:	83° 13’ 57”
County:	Madison
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	307
pH	7.22
Temperature	20.61
Nitrate nitrogen	0.15
Discharge (cfs)	0.3 est.
Discharge (mgd)	0.19 est.
Magnitude	4
Date sampled	9/22/97

MAD922976

The spring flows from limestone in the riverbank.

Latitude:	30° 16’ 56”
Longitude:	83° 13’ 57”
County:	Madison
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	269
pH	7.01
Temperature	20.45
Nitrate nitrogen	0.28
Discharge (cfs)	0.3 est.
Discharge (mgd)	0.19 est.
Magnitude	4
Date sampled	9/22/97

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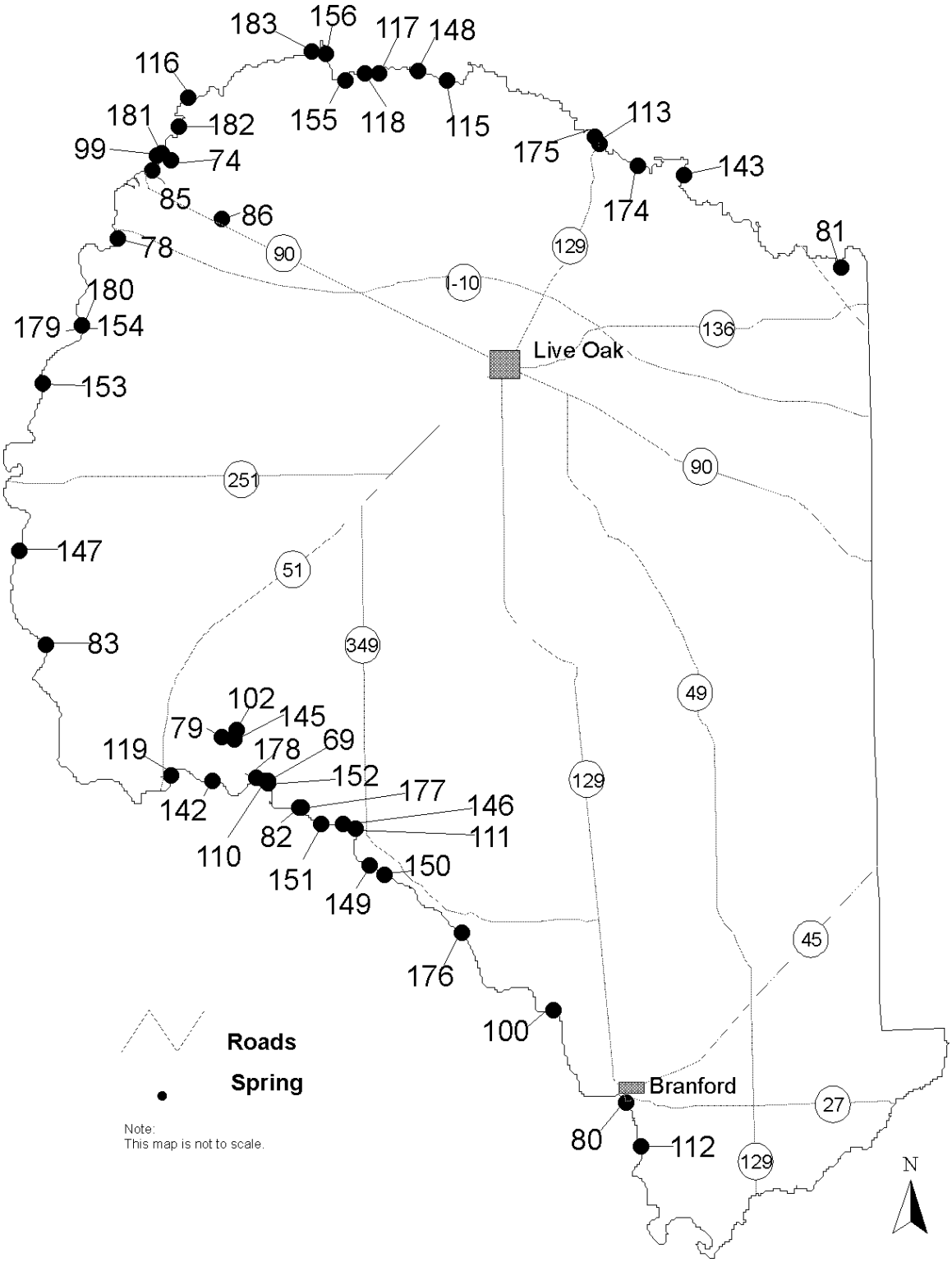
Suwannee County



Map #	Spring Name	Previously cataloged	Page #	Flow (cfs)	Magnitude
74	Lime Run Sink	No	107	173.25	1
86	Falmouth	Yes	107	125	1
78	Anderson	Yes	108	15	2
82	Bathtub	No	108	11.5	2
79	Bonnet	Yes	109	40	2
81	Blue Sink	No	109	43.87	2
80	Branford	Yes	110	24.53	2
83	Charles	Yes	110	16.35	2
85	Ellaville	No	111	40.7	2
99	Lime	Yes	111	20.3	2
100	Little River	Yes	112	84.89	2
102	Orange Grove	No	112	28.7	2
110	Running	Yes	113	22.44	2
112	Shingle	No	113	12.13	2
111	Suwannee Blue	Yes	114	35.46	2
113	Suwannee	Yes	114	14.07	2
116	SUW923973	No	115	92.81	2
119	Telford	Yes	115	40.15	2
117	SUW925971	No	116	26.14	2
118	SUW925972	No	116	10	2
115	SUW1017972	No	117	13.48	2
142	Luraville	Yes	117	6.74	3
143	Mattair	No	118	8.07	3
145	Peacock	Yes	118	8.87	3
146	Royal	Yes	119	6.23	3
147	Shirley	No	119	1.67	3
149	SUW718971	No	120	7.27	3
150	SUW725971	No	120	8.65	3
151	SUW919971	No	121	7.69	3
152	SUW919973	No	121	2.62	3
153	SUW922971	No	122	1	3
154	SUW922973	No	122	1.19	3
155	SUW925973	No	123	5.35	3
156	SUW925974	No	123	1.27	3
148	SUW1017971	No	124	4	3
177	SUW919972	No	124	0.69	4
178	SUW919974	No	125	0.93	4
179	SUW922972	No	125	0.5	4
180	SUW922974	No	126	0.5	4

Map #	Spring Name	Previously cataloged	Page #	Flow (cfs)	Magnitude
181	SUW923971	No	126	0.1	4
182	SUW923972	No	127	0.1	4
183	SUW925975	No	127	0.1	4
174	SUW1019971	No	128	0.3	4
176	SUW106971	No	128	0.43	4
175	SUW1023971	No	129	0.1	4
69	Cow	Yes	129	0	0

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Lime Run Sink

Private posted property surrounds the headspring. The run passes through the Suwannee River State Park. The run is approximately 3,000 feet long and the pool area is approximately 175 feet wide. The water is tannic colored.

Also Known As:	Dry Run
Latitude:	30° 23' 19"
Longitude:	83° 09' 43"
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	330
pH	7.52
Temperature	19.61
Nitrate nitrogen	0.70
Discharge (cfs)	173.25
Discharge (mgd)	110.88
Magnitude	1
Date sampled	5/14/98

Falmouth

A public park owned and operated by the SRWMD surrounds the spring. The pool area is 200 feet wide and the run is approximately 700 feet long. The water is tannic in color. There is an extensive cave system associated with this spring and a cave map presented in Appendix E.

Latitude:	30° 21' 39"
Longitude:	83° 08' 06"
County:	Suwannee
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	354
pH	7.15
Temperature	20.1
Nitrate nitrogen	0.78
Discharge (cfs)	125 est.
Discharge (mgd)	80 est.
Magnitude	1
Date sampled	6/17/98

Comments:
The spring was restored in 1996 using Pollution Recovery Trust Funds to reduce erosion. This feature is not a spring but a karst window. The spring flows for approximately 700 feet, where it is captured by a sinkhole and re-enters the Floridan aquifer system.

Anderson

The spring is located in the riverbed. The property surrounding the spring is SRWMD land. A boil is present, and is approximately 5 feet in diameter.

Latitude:	30° 21' 11"
Longitude:	83° 11' 23"
County:	Suwannee
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	350
pH	7.38
Temperature	21.27
Nitrate nitrogen	1.33
Discharge (cfs)	15 est.
Discharge (mgd)	9.6 est.
Magnitude	2
Date sampled	9/22/97

Comments:
The spring is being restored using Pollution Recovery Trust Funds to reduce erosion.

Bathtub

The spring is surrounded by private property. The pool area is 18 feet wide and 4.3 feet deep. The run has a concrete barricade to maintain the water level in the spring pool.

Latitude:	30° 05' 29"
Longitude:	83° 05' 54"
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	368
pH	7.35
Temperature	21.6
Nitrate nitrogen	1.23
Discharge (cfs)	11.5
Discharge (mgd)	7.36
Magnitude	2
Date sampled	7/30/97

Blue Sink

SRWMD land surrounds the spring. The pool area is 125 feet wide and the run is approximately 1,200 feet long.

Latitude:	30° 20' 07"
Longitude:	82° 48' 30"
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	247
pH	6.62
Temperature	20.63
Nitrate nitrogen	0.34
Discharge (cfs)	43.87
Discharge (mgd)	28.08
Magnitude	2
Date sampled	5/28/98

Comments:
The spring was restored in 1996 using Pollution Recovery Trust Funds to reduce erosion.

Bonnet

The spring is located in Peacock Springs State Park and an entrance fee is required. The pool area is 70 feet wide and 7 feet deep. The run connects with the run of Peacock Springs. There is a cave system associated with this spring and a cave map presented in Appendix E.

Latitude:	30° 07' 27"
Longitude:	83° 08' 17"
County:	Suwannee
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	398
pH	7.97
Temperature	21.06
Nitrate nitrogen	2.30
Discharge (cfs)	40 est.
Discharge (mgd)	25.6 est.
Magnitude	2
Date sampled	6/2/98

Branford

The spring is located in a county park. The pool area is 70 feet wide and 15 feet deep. A boil is present above a vent on the bottom.

Latitude:	29° 57’ 16”
Longitude:	82° 55’ 42”
County:	Suwannee
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	477
pH	7.01
Temperature	22.2
Nitrate nitrogen	1.06
Discharge (cfs)	24.53
Discharge (mgd)	15.70
Magnitude	2
Date sample	7/21/97

Charles

The spring is located in a county park. The pool area is 20 feet wide and 6 feet deep. There is a natural limestone bridge in the pool area and the run is approximately 150 feet long.

Latitude:	30° 10’ 00”
Longitude:	83° 13’ 53”
County:	Suwannee
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	374
pH	7.11
Temperature	20.6
Nitrate nitrogen	2.07
Discharge (cfs)	16.35
Discharge (mgd)	10.46
Magnitude	2
Date sampled	7/16/97

Comments:
The spring was restored in 1996 using Pollution Recovery Trust Funds to reduce erosion.

Ellaville

The spring is surrounded by private property and water flows directly from exposed limestone. The run is approximately 40 feet long.

Latitude:	30° 23’ 02”
Longitude:	83° 10’ 20”
County:	Suwannee
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	351
pH	7.11
Temperature	19.9
Nitrate nitrogen	0.74
Discharge (cfs)	40.7
Discharge (mgd)	26.05
Magnitude	2
Date sampled	6/2/98

Lime

The spring is located in Suwannee River State Park and an entrance fee is required. The pool area is 9 feet wide and 12 feet deep and a boil is present.

Latitude:	30° 23’ 27”
Longitude:	83° 10’ 08”
County:	Suwannee
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	384
pH	7.31
Temperature	20.73
Nitrate nitrogen	0.77
Discharge (cfs)	20.30
Discharge (mgd)	12.99
Magnitude	2
Date sampled	9/23/97

Little River

The spring is located in a county park. The pool area is 100 feet wide and 8 feet deep and the run is approximately 150 feet long. There is a cave system associated with this spring and a cave map presented in Appendix E.

Latitude:	29° 59' 47"
Longitude:	82° 57' 58"
County:	Suwannee
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	386
pH	---
Temperature	21.8
Nitrate nitrogen	1.38
Discharge (cfs)	84.89
Discharge (mgd)	54.33
Magnitude	2
Date sampled	9/19/97

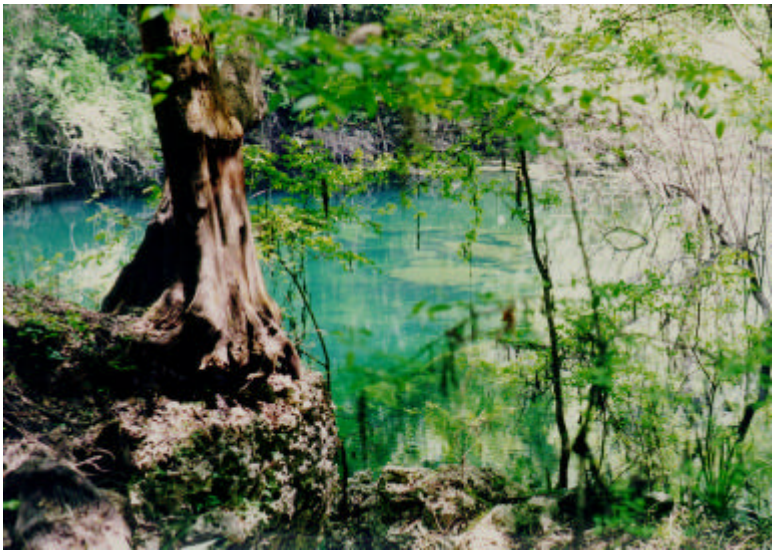
Comments:
There is extensive erosion of the banks around the spring pool area.

Orange Grove

The spring is located in Peacock Springs State Park and an entrance fee is required. The pool area is approximately 80 feet wide with a maximum depth of 28 feet. There is a cave system associated with this spring and a cave map (see Peacock cave map) presented in Appendix E.

Latitude:	30° 07' 37"
Longitude:	83° 07' 51"
County:	Suwannee
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	377
pH	7.70
Temperature	20.85
Nitrate nitrogen	2.53
Discharge (cfs)	28.7
Discharge (mgd)	18.37
Magnitude	2
Date sampled	5/8/98



Comments:
This feature is not a spring but a karst window and it flows intermittently. When it flows, it runs for approximately 250 feet, where it is captured by a sinkhole and re-enters the Floridan aquifer system.

Running

The spring is surrounded by private property. The spring system has two pool areas with a boil present in each pool area. The upstream spring has a run of approximately 225 feet before entering the Suwannee River. The downstream spring has a pool area that is 60 feet wide and 5 feet deep. The downstream spring (picture below) empties directly into the river. There is a boil in the riverbed where the downstream spring enters the river.

Latitude:	30° 06' 14"
Longitude:	83° 06' 56"
County:	Suwannee
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	378
pH	7.21
Temperature	21.8
Nitrate nitrogen	1.41
Discharge (cfs)	22.44
Discharge (mgd)	14.36
Magnitude	2
Date sampled	7/30/97

Comments:
Data presented is for the upstream spring.

Shingle

The spring is surrounded by private property. The pool area is 150 feet wide and 60 feet deep.

Latitude:	29° 56' 02"
Longitude:	82° 55' 14"
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	452
pH	---
Temperature	21.0
Nitrate nitrogen	1.38
Discharge (cfs)	12.13
Discharge (mgd)	7.76
Magnitude	2
Date sampled	7/21/97

Suwannee

The spring is located on the riverbank and is surrounded by SRWMD land. The pool area is 40 feet in diameter. There is a strong H_2S odor associated with the water. The spring pool was enclosed in the late 1800's to create a bathing area for a resort hotel, which was located nearby.

Latitude:	30° 23' 38"
Longitude:	82° 56' 04"
County:	Suwannee
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	320
pH	7.18
Temperature	20.6
Nitrate nitrogen	0.01
Discharge (cfs)	14.07
Discharge (mgd)	9.00
Magnitude	2
Date sampled	6/24/97

Comments:
The spring was restored in 1996, using Pollution Recovery Trust Funds to reduce erosion.

Suwannee Blue

The spring is surrounded by private property. It consists of three pool areas, with a natural limestone bridge separating each pool area. The pool area and run are lined with limestone. The run is approximately 260 feet. There are four sinkholes upgradient of the spring.

Latitude:	30° 04' 52"
Longitude:	83° 04' 09"
County:	Suwannee
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	365
pH	7.12
Temperature	21.8
Nitrate nitrogen	4.71
Discharge (cfs)	35.46
Discharge (mgd)	22.69
Magnitude	2
Date sampled	9/17/97

Comments:
Picture above was taken after a heavy rainfall. The rainfall resulted in the cloudiness seen in the water. The spring water is generally aqua blue in color.

Telford

The spring is surrounded by private property. The pool area is 22 feet wide and 10 feet deep.

Also Known As:	Tilford
Latitude:	30° 06’ 23”
Longitude:	83° 09’ 56”
County:	Suwannee
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	460
pH	7.10
Temperature	21.4
Nitrate nitrogen	2.11
Discharge (cfs)	40.15
Discharge (mgd)	25.70
Magnitude	2
Date sampled	9/17/97

Comments:
There are large areas of erosion around the spring due to human and vehicle traffic.

SUW923973

The spring is surrounded by private property. It is flowing from a cave, which is approximately 6 feet wide, at the base of the riverbank. The pool area is 60 feet wide and 6 feet deep and there is a large boil present.

Latitude:	30° 25’ 00”
Longitude:	83° 09’ 10”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	385
pH	7.28
Temperature	20.8
Nitrate nitrogen	0.76
Discharge (cfs)	92.81
Discharge (mgd)	59.40
Magnitude	2
Date sampled	9/23/97

SUW925971

The spring is surrounded by private property, which is posted. The pool area is 20 feet wide and 7 feet deep and the run is 60 feet long.

Latitude:	30° 25' 39"
Longitude:	83° 03' 03"
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	338
pH	7.38
Temperature	21.06
Nitrate nitrogen	1.21
Discharge (cfs)	26.14
Discharge (mgd)	16.73
Magnitude	2
Date sampled	9/25/97

Comments:
A submersible pump in the pool area is possibly for drinking water to a nearby house.

SUW925972

The spring is in the riverbed at the base of the riverbank. A boil is present in the river and the water is milky in color.

Latitude:	30° 25' 39"
Longitude:	83° 03' 33"
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	405
pH	7.49
Temperature	20.49
Nitrate nitrogen	0.55
Discharge (cfs)	10.00 est.
Discharge (mgd)	6.4 est.
Magnitude	2
Date sampled	9/25/97

SUW1017972

The spring is surrounded by the Florida Sheriff's Boys Ranch property. The pool area is 50 feet wide and there is a boil present. The run is approximately 400 feet long.

Also Known As:	Blue
Latitude:	30° 25' 22"
Longitude:	83° 00' 53"
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	334
pH	7.50
Temperature	21.26
Nitrate nitrogen	0.65
Discharge (cfs)	13.48
Discharge (mgd)	8.63
Magnitude	2
Date sampled	10/17/97

Luraville

The spring is surrounded by private property and the run is approximately 400 feet long.

Latitude:	30° 06' 16"
Longitude:	83° 08' 37"
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	440
pH	6.97
Temperature	20.60
Nitrate nitrogen	0.05
Discharge (cfs)	6.74
Discharge (mgd)	4.31
Magnitude	3
Date sampled	5/7/98

Comments:
The springs only flows during periods of high groundwater levels in the Floridan aquifer system.

Mattair

SRWMD land surrounds the spring. The water flows from exposed limestone and there is H_2S odor associated with the water.

Latitude:	30° 22’ 41”
Longitude:	82° 53’ 28”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	no sample
pH	no sample
Temperature	no sample
Nitrate nitrogen	0.42
Discharge (cfs)	8.07
Discharge (mgd)	5.17
Magnitude	3
Date sampled	6/9/98

Comments:
Conductivity, pH, and temperature were not collected to prevent fouling of the probes by H_2S in the water.

Peacock

The spring is located in Peacock Springs State Park and an entrance fee is required. The pool area is 60 feet wide and 15 feet deep. There is a cave system associated with this spring and a cave map presented in Appendix E.

Latitude:	30° 07’ 20”
Longitude:	83° 07’ 56”
County:	Suwannee
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	379
pH	7.33
Temperature	21.9
Nitrate nitrogen	2.51
Discharge (cfs)	8.87
Discharge (mgd)	5.68
Magnitude	3
Date sampled	7/30/97

Royal

The spring is located in a county park. The pool area is 200 feet wide and 42 feet deep and there is exposed limestone around the pool area. The run is approximately 175 feet long.

Latitude:	30° 05’ 00”
Longitude:	83° 04’ 29”
County:	Suwannee
Historic Data:	Yes
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	373
pH	---
Temperature	21.9
Nitrate nitrogen	1.69
Discharge (cfs)	6.23
Discharge (mgd)	3.99
Magnitude	3
Date sampled	9/17/97

Shirley

The spring is located on the riverbank. The pool area is 20 feet wide and 12 feet deep. Rocks have been piled up around the spring to raise the water level.

Latitude:	30° 12’ 37”
Longitude:	83° 14’ 41”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	422
pH	7.40
Temperature	20.53
Nitrate nitrogen	1.42
Discharge (cfs)	1.67
Discharge (mgd)	1.07
Magnitude	3
Date sampled	9/29/97

SUW718971

The spring is surrounded by private property and is located in a ravine on the riverbank. The pool area is 18 feet wide and 150 feet long and a boil is present.

Latitude:	30° 03' 50"
Longitude:	83° 03' 43"
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	481
pH	7.25
Temperature	21.25
Nitrate nitrogen	16.7
Discharge (cfs)	7.27
Discharge (mgd)	4.65
Magnitude	3
Date sampled	7/18/97

SUW725971

The spring is located on the riverbank. The pool area is 20 feet wide and 6 feet deep. A boil is present over a vent that is approximately 6 feet long.

Latitude:	30° 03' 37"
Longitude:	83° 03' 12"
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	495
pH	7.15
Temperature	21.44
Nitrate nitrogen	19.20
Discharge (cfs)	8.65
Discharge (mgd)	5.54
Magnitude	3
Date sampled	7/25/97

SUW919971

The spring is located on the riverbank, which is private property. The pool area is 15 feet wide and 3 feet deep. A boil is present over a vent and the run is 55 feet long. Two houses are located within 200 feet of the spring.

Latitude:	30° 05’ 00”
Longitude:	83° 05’ 14”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	482
pH	7.49
Temperature	22.03
Nitrate nitrogen	0.50
Discharge (cfs)	7.69
Discharge (mgd)	4.92
Magnitude	3
Date sampled	9/19/97

SUW919973

The spring flows from limestone at the base of the riverbank.

Also Known As:	Hidden
Latitude:	30° 06’ 09”
Longitude:	83° 06’ 51”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	378
pH	7.48
Temperature	21.67
Nitrate nitrogen	2.08
Discharge (cfs)	2.62
Discharge (mgd)	1.68
Magnitude	3
Date sampled	9/19/97

SUW922971

The spring flows from limestone at the base of the riverbank. There are two boils associated with this spring.

Latitude:	30° 17’ 14”
Longitude:	83° 13’ 52”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	518
pH	7.02
Temperature	20.24
Nitrate nitrogen	0.14
Discharge (cfs)	1.0 est.
Discharge (mgd)	0.64 est.
Magnitude	3
Date sampled	9/22/97

SUW922973

The spring is flowing from limestone at the base of the riverbank.

Latitude:	30° 18’ 47”
Longitude:	83° 12’ 35”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	385
pH	7.31
Temperature	21.58
Nitrate nitrogen	1.00
Discharge (cfs)	1.19
Discharge (mgd)	0.76
Magnitude	3
Date sampled	9/22/97

SUW925973

The spring is flowing from a small cave at the base of the riverbank. The cave is 3 feet wide.

Latitude:	30° 25’ 27”
Longitude:	83° 04’ 08”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	322
pH	7.42
Temperature	20.68
Nitrate nitrogen	0.66
Discharge (cfs)	5.35
Discharge (mgd)	3.42
Magnitude	3
Date sampled	9/25/97

SUW925974

The spring flows from the base of the riverbank and there are six distinct boils present.

Latitude:	30° 26’ 12”
Longitude:	83° 04’ 43”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	366
pH	7.39
Temperature	20.58
Nitrate nitrogen	0.74
Discharge (cfs)	1.27
Discharge (mgd)	0.81
Magnitude	3
Date sampled	9/25/97

SUW1017971

The spring flows from a small cave at the base of the riverbank.

Latitude:	30° 25’ 40”
Longitude:	83° 01’ 48”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	336
pH	7.10
Temperature	20.74
Nitrate nitrogen	0.76
Discharge (cfs)	4.00
Discharge (mgd)	2.56
Magnitude	3
Date sampled	10/17/97

SUW919972

The spring flows from a small cave at the base of the riverbank.

Latitude:	30° 05’ 27”
Longitude:	83° 05’ 50”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	376
pH	7.54
Temperature	21.76
Nitrate nitrogen	1.30
Discharge (cfs)	0.69
Discharge (mgd)	0.44
Magnitude	4
Date sampled	9/19/97

SUW919974

The spring flows from two vents in the limestone at the base of the riverbank.

Latitude:	30° 06’ 19”
Longitude:	83° 07’ 16”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	414
pH	7.24
Temperature	21.3
Nitrate nitrogen	2.04
Discharge (cfs)	0.93
Discharge (mgd)	0.60
Magnitude	4
Date sampled	9/19/97

SUW922972

The spring is flowing from limestone at the base of the riverbank.

Latitude:	30° 18’ 46”
Longitude:	83° 12’ 35”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	258
pH	7.25
Temperature	21.58
Nitrate nitrogen	1.32
Discharge (cfs)	0.5 est.
Discharge (mgd)	0.32 est.
Magnitude	4
Date sampled	9/22/97

SUW922974

The spring is flowing from limestone at the base of the riverbank.

Latitude:	30° 18’ 48”
Longitude:	83° 12’ 35”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	417
pH	7.27
Temperature	21.2
Nitrate nitrogen	1.21
Discharge (cfs)	0.5 est.
Discharge (mgd)	0.76 est.
Magnitude	4
Date sampled	9/22/97

SUW923971

The spring flows from limestone in the riverbank.

Latitude:	30° 23’ 31”
Longitude:	83° 10’ 01”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	290
pH	7.22
Temperature	20.2
Nitrate nitrogen	0.18
Discharge (cfs)	0.1 est.
Discharge (mgd)	0.06 est.
Magnitude	4
Date sampled	9/23/97

SUW923972

The spring flows from limestone in the riverbank.

Latitude:	30° 24’ 15”
Longitude:	83° 09’ 27”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	519
pH	7.08
Temperature	19.79
Nitrate nitrogen	0.13
Discharge (cfs)	0.1 est.
Discharge (mgd)	0.06 est.
Magnitude	4
Date sampled	9/23/97

SUW925975

The spring is flowing out of the limestone in the riverbank.

Latitude:	30° 26’ 13”
Longitude:	83° 05’ 13”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	278
pH	7.77
Temperature	21.14
Nitrate nitrogen	0.63
Discharge (cfs)	0.1 est.
Discharge (mgd)	0.06 est.
Magnitude	4
Date sampled	9/25/97

SUW106971

The spring flows from limestone in the riverbank.

Latitude:	30° 01’ 57”
Longitude:	83° 00’ 48”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	254
pH	7.56
Temperature	21.31
Nitrate nitrogen	3.64
Discharge (cfs)	0.43
Discharge (mgd)	0.28
Magnitude	4
Date sampled	10/6/97

SUW1019971

The spring flows from limestone in the riverbank.

Latitude:	30° 22’ 58”
Longitude:	82° 54’ 54”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	359
pH	7.49
Temperature	20.35
Nitrate nitrogen	0.55
Discharge (cfs)	0.3 est.
Discharge (mgd)	0.19 est.
Magnitude	4
Date sampled	10/19/97

SUW1023971

The spring is flowing out of limestone on the riverbank. There is H_2S odor associated with the water.

Latitude:	30° 23’ 47”
Longitude:	82° 56’ 13”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	No Sample
pH	No Sample
Temperature	No Sample
Nitrate nitrogen	0.01
Discharge (cfs)	0.1 est.
Discharge (mgd)	0.06 est.
Magnitude	4
Date sampled	10/23/97

Comments:
Conductivity, pH, and temperature were not collected to prevent fouling of the probes by H_2S in the water.

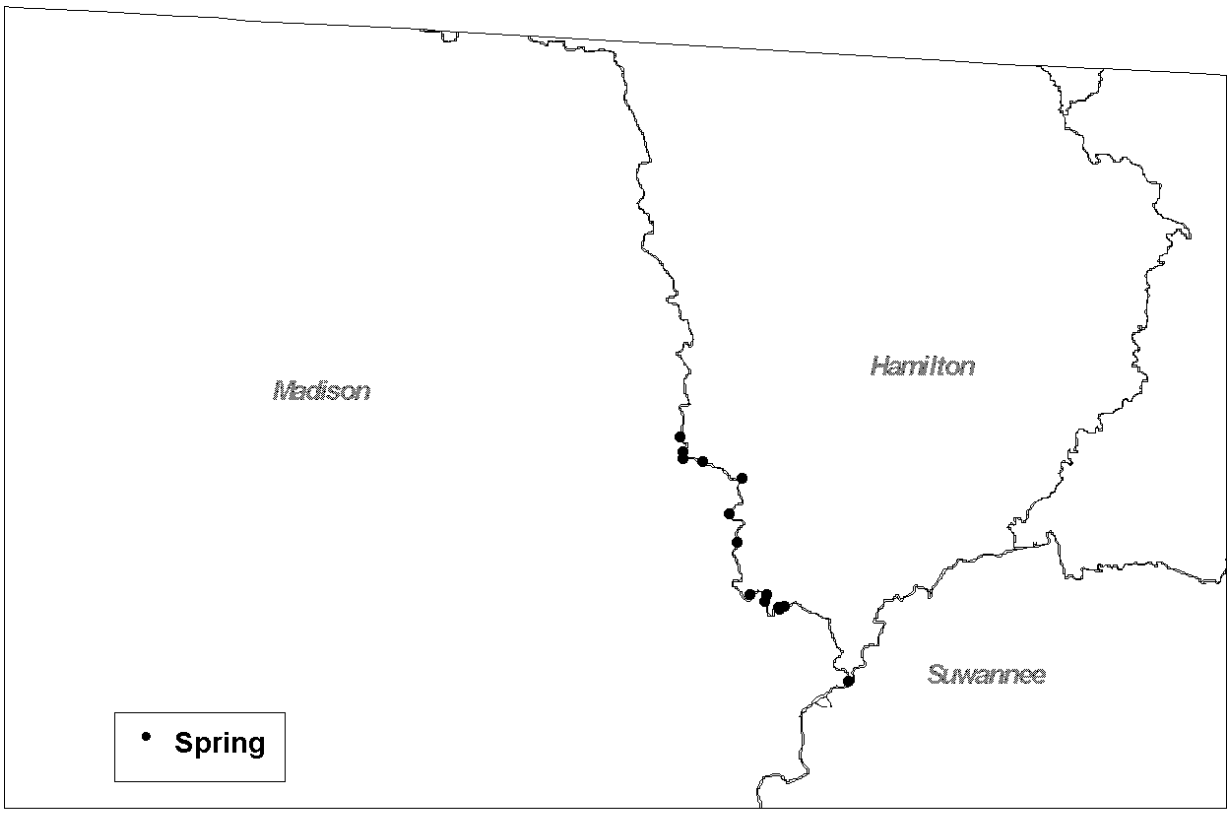
Cow

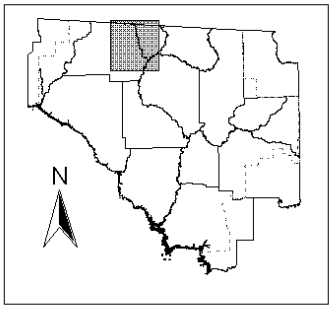
The spring is located on the riverbank, however, it was not flowing at time of this survey. There is a cave system associated with this spring and a cave map presented in Appendix E.

Latitude:	30° 06’ 12”
Longitude:	83° 06’ 54”
County:	Suwannee
Historic Data:	No
River Basin:	Suwannee

Parameters	**Value**
Sp. Conductance	No Sample
pH	No Sample
Temperature	No Sample
Nitrate nitrogen	No Sample
Discharge (cfs)	No Sample
Discharge (mgd)	No Sample
Date sampled	9/19/97

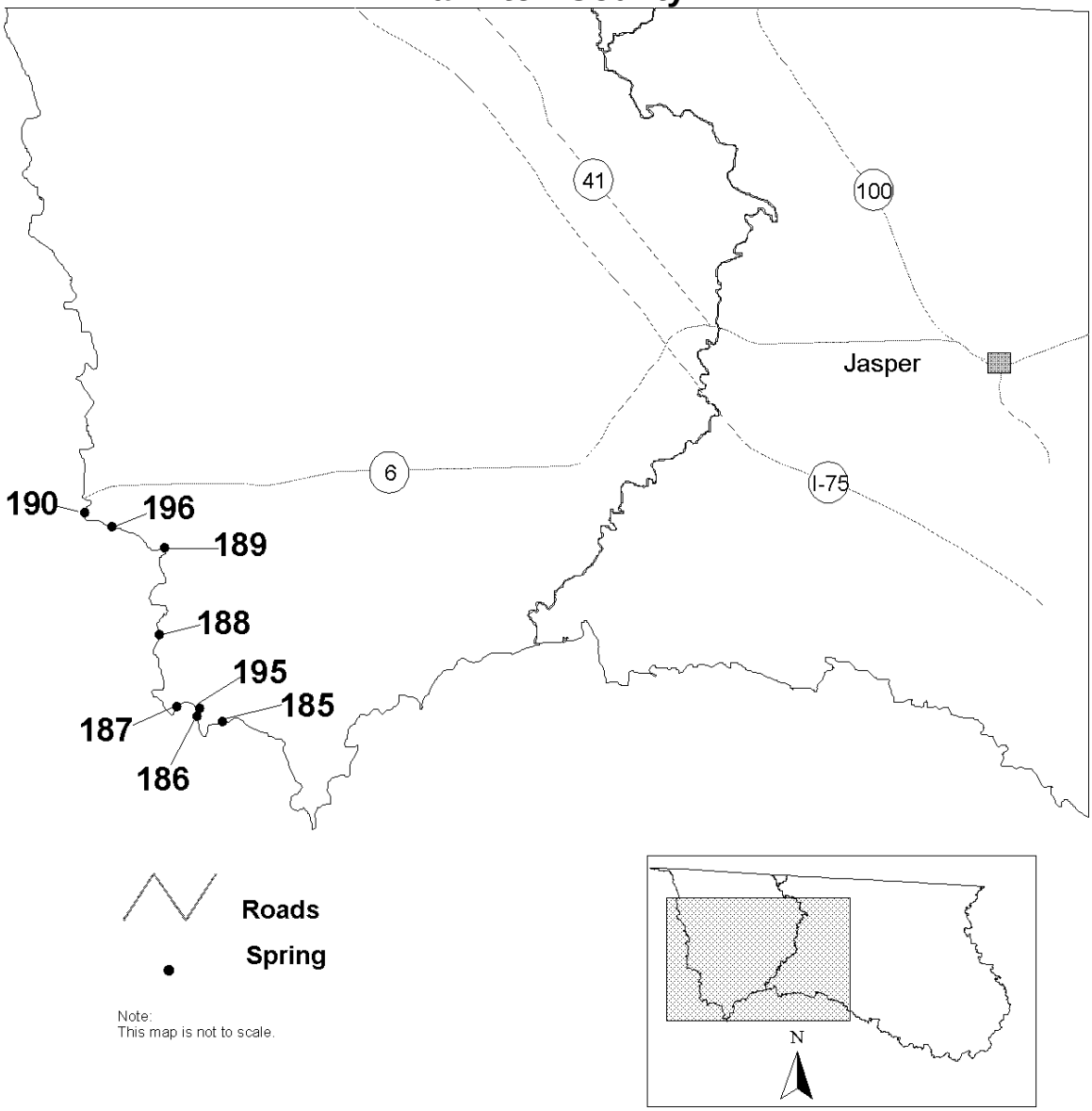
Withlacoochee River Springs





Note:
This map was prepared for informal purposes and
does not conform to National Map Accuracy Standards

Hamilton County



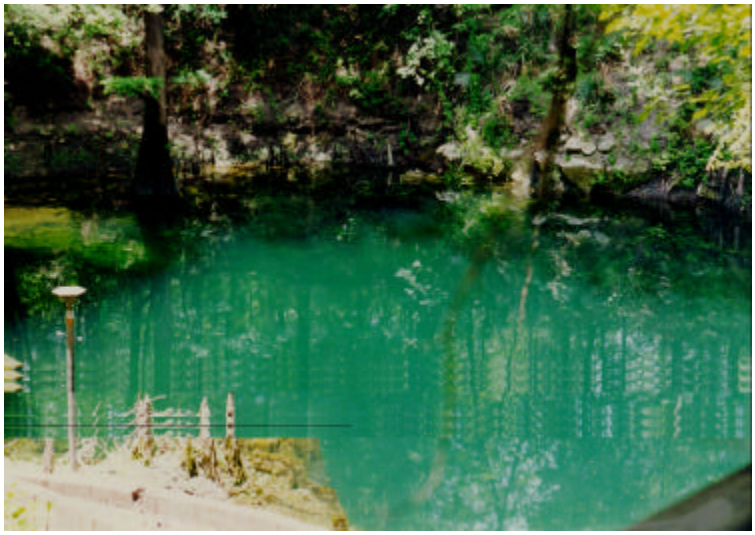
Map #	Spring Name	Previously cataloged	Page #	Flow (cfs)	Magnitude
195	Morgan	Yes	132	17.59	2
196	Pot	No	132	38.19	2
185	HAM610981	No	133	40	2
186	HAM610982	No	133	30	2
187	HAM610983	No	134	30	2
188	HAM610984	No	134	20	2
189	HAM612981	No	135	92.5	2
190	HAM612982	No	135	6.01	3

Morgan

The spring is surrounded by private property, which is posted. The pool area is approximately 90 feet wide with a maximum depth of 80 feet. The run is 250 feet long and the water has a bluish-green color. There is a cave system associated with this spring and a cave map presented in Appendix E.

Latitude:	30° 25' 11"
Longitude:	83° 12' 25"
County:	Hamilton
Historic Data:	No
River Basin:	Withlacoochee

Parameters	**Value**
Sp. Conductance	301
pH	7.63
Temperature	21.1
Nitrate nitrogen	1.32
Discharge (cfs)	17.59
Discharge (mgd)	11.26
Magnitude	2
Date sampled	6/10/98



Pot

The spring is located on the riverbank and is surrounded by SRWMD land. The pool area is approximately 30 feet wide with a maximum depth of 16 feet. The water has a bluish-green color. There are areas around the spring pool, which are eroding due to foot traffic and fluctuating river levels.

Latitude:	30° 28' 14"
Longitude:	83° 14' 04"
County:	Hamilton
Historic Data:	No
River Basin:	Withlacoochee

Parameters	**Value**
Sp. Conductance	289
pH	7.03
Temperature	20.95
Nitrate nitrogen	1.77
Discharge (cfs)	38.19
Discharge (mgd)	24.44
Magnitude	2
Date sampled	6/15/98

Comments:
The spring will be restored in the summer of 1998 using Pollution Recovery Trust Funds. The restoration is to control erosion around the spring pool.

HAM610981

The spring is located at the base of the riverbank. Water flows from a vent, which is approximately 9 feet long and 3.5 feet wide and there is a boil present.

Latitude:	30° 24’ 56”
Longitude:	83° 11’ 57”
County:	Hamilton
Historic Data:	No
River Basin:	Withlacoochee

Parameters	**Value**
Sp. Conductance	304
pH	6.89
Temperature	19.65
Nitrate nitrogen	0.85
Discharge (cfs)	40 est.
Discharge (mgd)	25.6 est.
Magnitude	2
Date sampled	6/10/98

HAM610982

The spring is located at the base of the riverbank. Water flows from a vent, which is approximately 4 feet long and 1.5 feet wide and there is a boil present.

Latitude:	30° 25’ 02”
Longitude:	83° 12’ 27”
County:	Hamilton
Historic Data:	No
River Basin:	Withlacoochee

Parameters	**Value**
Sp. Conductance	304
pH	7.61
Temperature	20.95
Nitrate nitrogen	1.48
Discharge (cfs)	30 est.
Discharge (mgd)	19.2 est.
Magnitude	2
Date sampled	6/10/98

HAM610983

The spring flows from two caves at the base of the riverbank. There is a boil present inside of the caves.

Latitude:	30° 25’ 12”
Longitude:	83° 12’ 51”
County:	Hamilton
Historic Data:	No
River Basin:	Withlacoochee

Parameters	**Value**
Sp. Conductance	295
pH	7.62
Temperature	20.72
Nitrate nitrogen	1.29
Discharge (cfs)	30 est.
Discharge (mgd)	19.2 est.
Magnitude	2
Date sampled	6/10/98

HAM610984

The spring flows from a fracture at the base of the riverbank and there are two boils present. The sound of running water can be heard coming from the riverbank.

Latitude:	30° 26’ 24”
Longitude:	83° 13’ 11”
County:	Hamilton
Historic Data:	No
River Basin:	Withlacoochee

Parameters	**Value**
Sp. Conductance	278
pH	7.92
Temperature	20.91
Nitrate nitrogen	1.41
Discharge (cfs)	20 est.
Discharge (mgd)	12.8 est.
Magnitude	2
Date sampled	6/10/98

HAM612981

The spring is surrounded by private property and there are three boils present. The pool area is 45 feet wide with a maximum depth of 24 feet. The run is approximately 50 feet long and the water is tannic colored and turbid.

Also Known As:	Tanner
Latitude:	30° 27’ 52”
Longitude:	83° 13’ 03”
County:	Hamilton
Historic Data:	No
River Basin:	Withlacoochee

Parameters	**Value**
Sp. Conductance	291
pH	7.57
Temperature	19.90
Nitrate nitrogen	0.93
Discharge (cfs)	92.5
Discharge (mgd)	59.2
Magnitude	2
Date sampled	6/12/98

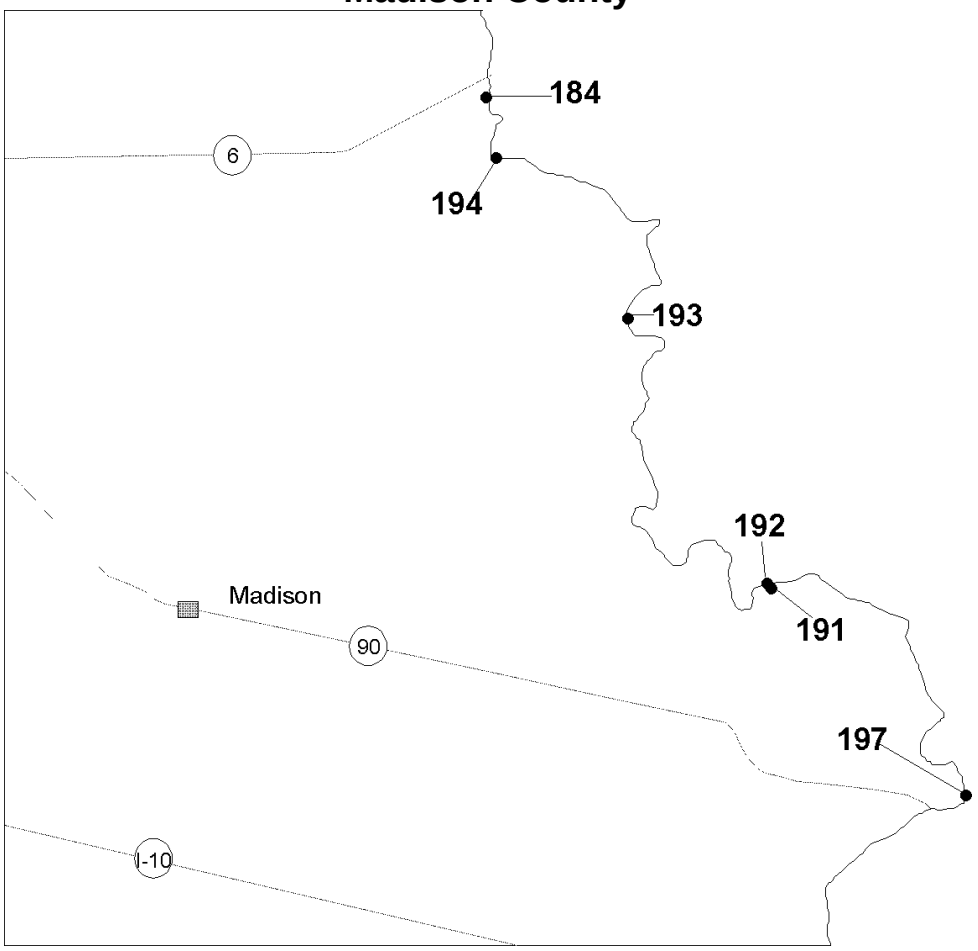
HAM612982

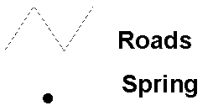
The spring is surrounded by private property. The pool area is 8 feet wide with a maximum depth of 3 feet and there is a boil present. The run is approximately 30 feet long and the water has a clear, blue color.

Latitude:	30° 28’ 28”
Longitude:	83° 14’ 36”
County:	Hamilton
Historic Data:	No
River Basin:	Withlacoochee

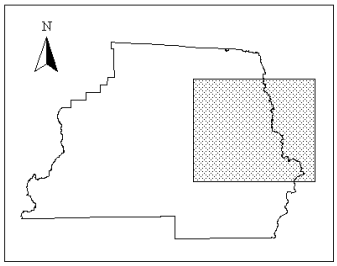
Parameters	**Value**
Sp. Conductance	295
pH	7.81
Temperature	20.93
Nitrate nitrogen	1.46
Discharge (cfs)	6.01
Discharge (mgd)	3.85
Magnitude	3
Date sampled	6/12/98

Madison County





Note:
This map is not to scale.



Map #	Spring Name	Previously cataloged	Page #	Flow (cfs)	Magnitude
184	Blue	Yes	137	120	1
197	Suwanacoochee	Yes	137	35.46	2
192	MAD610982	No	138	40	2
193	MAD612981	No	138	15	2
194	MAD612982	No	139	15	2
191	MAD610981	No	139	5.84	3

Blue

A private park surrounds the spring and an entrance fee is required. The pool area is approximately 70 feet wide with a maximum depth of 35 feet. The run is 150 feet long and the water has a bluish color. There is a cave system associated with this spring and a cave map presented in Appendix E.

Latitude:	30° 28’ 48”
Longitude:	83° 14’ 40”
County:	Madison
Historic Data:	Yes
River Basin:	Withlacoochee

Parameters	**Value**
Sp. Conductance	278
pH	7.59
Temperature	20.87
Nitrate nitrogen	1.72
Discharge (cfs)	120
Discharge (mgd)	76.8
Magnitude	1
Date sampled	6/15/98

Suwanacoochee

A county park surrounds the spring. The pool area is approximately 30 feet wide. The run has been modified to impound water in the pool area. This was done to create a bathing pool for an early 1900’s spa.

Latitude:	30° 23’ 11”
Longitude:	83° 10’ 18”
County:	Madison
Historic Data:	Yes
River Basin:	Withlacoochee

Parameters	**Value**
Sp. Conductance	383
pH	--
Temperature	20.7
Nitrate nitrogen	0.73
Discharge (cfs)	35.46
Discharge (mgd)	22.69
Magnitude	2
Date sampled	9/24/97

MAD610982

The spring is located in the riverbed and has a 6-foot diameter boil. The maximum depth at the boil was 7 feet.

Latitude:	30° 24’ 54”
Longitude:	83° 12’ 07”
County:	Madison
Historic Data:	No
River Basin:	Withlacoochee

Parameters	**Value**
Sp. Conductance	278
pH	7.54
Temperature	22.86
Nitrate nitrogen	1.02
Discharge (cfs)	40 est.
Discharge (mgd)	25.6 est.
Magnitude	2
Date sampled	6/10/98

MAD612981

The spring is located in the riverbed and has a 4-foot diameter boil. The maximum depth at the boil was 6 feet.

Latitude:	30° 27’ 02”
Longitude:	83° 13’ 23”
County:	Madison
Historic Data:	No
River Basin:	Withlacoochee

Parameters	**Value**
Sp. Conductance	290
pH	7.42
Temperature	21.45
Nitrate nitrogen	1.57
Discharge (cfs)	15 est.
Discharge (mgd)	9.6 est.
Magnitude	2
Date sampled	6/12/98

MAD612982

The spring flows from the base of the riverbank and nine discharge points were observed. The water was clear with no color.

Latitude:	30° 28’ 20”
Longitude:	83° 14’ 35”
County:	Madison
Historic Data:	No
River Basin:	Withlacoochee

Parameters	**Value**
Sp. Conductance	297
pH	7.68
Temperature	20.93
Nitrate nitrogen	1.62
Discharge (cfs)	15 est.
Discharge (mgd)	9.6 est.
Magnitude	2
Date sampled	6/12/98

MAD610981

The spring is surrounded by private property. Water flows from a fracture that is 25 feet long and 5 feet wide. The maximum depth in the fracture is 14 feet. The run is 60 feet long and the exposed limestone in the run is covered with algae.

Latitude:	30° 24’ 52”
Longitude:	83° 12’ 05”
County:	Madison
Historic Data:	No
River Basin:	Withlacoochee

Parameters	**Value**
Sp. Conductance	306
pH	7.25
Temperature	20.64
Nitrate nitrogen	1.27
Discharge (cfs)	5.84
Discharge (mgd)	3.74
Magnitude	3
Date sampled	6/10/98

Appendices

Appendix A - Historical Data for Ichetucknee River Springs
Appendix B - Historical Data for Santa Fe River Springs
Appendix C - Historical Data for Suwannee River Springs
Appendix D - Historical Data for Withlacoochee River Springs
Appendix E - Cave Maps for Springs Systems in the Suwannee River Basin

Appendix A - Historical Data for Ichetucknee River Springs

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Columbia	Ichetucknee	Blue Hole	7/11/1975					86.60
Columbia	Ichetucknee	Blue Hole	10/16/1991	304	7.42	21.1	0.65	
Columbia	Ichetucknee	Blue Hole	11/11/1991	304	7.48	20.9	0.67	
Columbia	Ichetucknee	Blue Hole	12/9/1991	304	7.64	21.3	0.71	
Columbia	Ichetucknee	Blue Hole	1/15/1992	306	7.65	21.0	0.70	
Columbia	Ichetucknee	Blue Hole	2/6/1992	301	7.62	21.0	0.69	
Columbia	Ichetucknee	Blue Hole	3/5/1992	303	7.77	21.3	0.48	
Columbia	Ichetucknee	Blue Hole	4/9/1992	303	7.32	20.0	0.81	
Columbia	Ichetucknee	Blue Hole	5/13/1992	310	7.38	20.9	0.65	
Columbia	Ichetucknee	Blue Hole	6/10/1992	299	7.18	21.4	0.85	
Columbia	Ichetucknee	Blue Hole	7/16/1992	300	7.33	21.4	0.81	
Columbia	Ichetucknee	Blue Hole	8/12/1992	302	7.32	21.4	0.72	
Columbia	Ichetucknee	Blue Hole	9/9/1992	330	7.46	21.4	0.76	
Columbia	Ichetucknee	Cedar Head	7/11/1975					9.08
Columbia	Ichetucknee	Ichetucknee	2/18/1917					44.40
Columbia	Ichetucknee	Ichetucknee	5/17/1946	329	7.70	22.2		
Columbia	Ichetucknee	Ichetucknee	7/11/1975					45.60
Columbia	Ichetucknee	Ichetucknee	10/16/1991	326	7.40	21.1	0.67	
Columbia	Ichetucknee	Ichetucknee	11/11/1991	328	7.27	21.2	0.66	
Columbia	Ichetucknee	Ichetucknee	12/9/1991	324	7.60	21.2	0.73	
Columbia	Ichetucknee	Ichetucknee	1/15/1992	324	7.46	21.0	0.75	
Columbia	Ichetucknee	Ichetucknee	2/6/1992	324	7.48	21.2	0.71	
Columbia	Ichetucknee	Ichetucknee	3/5/1992	325	7.49	21.4	0.77	
Columbia	Ichetucknee	Ichetucknee	4/9/1992	329	7.24	20.1	0.84	
Columbia	Ichetucknee	Ichetucknee	5/13/1992	322	7.19	21.0	0.70	
Columbia	Ichetucknee	Ichetucknee	6/10/1992	320	6.93	21.6	0.88	
Columbia	Ichetucknee	Ichetucknee	7/16/1992	322	7.11	21.5	0.88	
Columbia	Ichetucknee	Ichetucknee	8/12/1992	326	7.26	21.4	0.79	
Columbia	Ichetucknee	Ichetucknee	9/9/1992	391	7.46	21.5	0.85	
Columbia	Ichetucknee	Mill Pond	5/17/1946					21.80

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Columbia	Ichetucknee	Mill Pond	7/11/1975					18.90
Columbia	Ichetucknee	Mill Pond	10/16/1991	374	7.43	21.8	0.20	
Columbia	Ichetucknee	Mill Pond	11/11/1991	368	7.21	21.5	0.28	
Columbia	Ichetucknee	Mill Pond	12/9/1991	363	7.64	21.5	0.32	
Columbia	Ichetucknee	Mill Pond	1/15/1992	352	7.64	21.2	0.35	
Columbia	Ichetucknee	Mill Pond	2/6/1992	353	7.40	21.3	0.34	
Columbia	Ichetucknee	Mill Pond	3/5/1992	355	7.50	21.6	0.36	
Columbia	Ichetucknee	Mill Pond	4/9/1992	348	7.45	21.2	0.43	
Columbia	Ichetucknee	Mill Pond	5/13/1992	358	7.50	21.2	0.31	
Columbia	Ichetucknee	Mill Pond	6/10/1992	340	7.68	21.7	0.46	
Columbia	Ichetucknee	Mill Pond	7/16/1992	354	7.61	21.6	0.42	
Columbia	Ichetucknee	Mill Pond	8/12/1992	358	7.44	21.6	0.36	
Columbia	Ichetucknee	Mill Pond	9/9/1992	402	7.39	21.6	0.39	
Columbia	Ichetucknee	Mission	5/17/1946					49.40
Columbia	Ichetucknee	Mission	10/16/1991	299	7.45	21.2	0.38	
Columbia	Ichetucknee	Mission	11/11/1991	296	7.47	21.8	0.43	
Columbia	Ichetucknee	Mission	12/9/1991	306	7.64	21.3	0.46	
Columbia	Ichetucknee	Mission	1/15/1992	298	7.75	21.2	0.48	
Columbia	Ichetucknee	Mission	2/6/1992	304	7.46	21.2	0.47	
Columbia	Ichetucknee	Mission	3/5/1992	291	7.18	21.3	0.50	
Columbia	Ichetucknee	Mission	4/9/1992	297	7.39	21.0	0.56	
Columbia	Ichetucknee	Mission	5/13/1992	303	7.49	21.1	0.43	
Columbia	Ichetucknee	Mission	6/10/1992	299	7.56	21.4	0.59	
Columbia	Ichetucknee	Mission	7/16/1992	299	7.58	21.4	0.57	
Columbia	Ichetucknee	Mission	8/12/1992	283	7.42	21.4	0.50	
Columbia	Ichetucknee	Mission	9/9/1992	356	7.46	21.4	0.51	
Suwannee	Ichetucknee	Devil’s Eye	10/16/1991	322	7.40	21.4	0.37	
Suwannee	Ichetucknee	Devil’s Eye	11/11/1991	323	7.41	21.3	0.44	
Suwannee	Ichetucknee	Devil’s Eye	12/9/1991	327	7.64	21.5	0.54	

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Suwannee	Ichetucknee	Devil's Eye	1/15/1992	324	7.67	21.1	0.50	
Suwannee	Ichetucknee	Devil's Eye	2/6/1992	316	7.24	21.3	0.49	
Suwannee	Ichetucknee	Devil's Eye	3/5/1992	319	7.86	21.5	0.73	
Suwannee	Ichetucknee	Devil's Eye	4/9/1992	313	7.42	21.1	0.54	
Suwannee	Ichetucknee	Devil's Eye	5/13/1992	325	7.45	21.1	0.42	
Suwannee	Ichetucknee	Devil's Eye	6/10/1992	318	7.44	21.5	0.57	
Suwannee	Ichetucknee	Devil's Eye	7/16/1992	319	7.47	21.5	0.56	
Suwannee	Ichetucknee	Devil's Eye	8/12/1992	322	7.38	21.5	0.51	
Suwannee	Ichetucknee	Devil's Eye	9/9/1992	351	7.45	21.5	0.50	

Appendix B - Historical Data for Santa Fe River Springs

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Alachua	Santa Fe	Hornsby	2/25/1972	390	8.80	22.5		
Alachua	Santa Fe	Hornsby	4/19/1972					250.00
Alachua	Santa Fe	Hornsby	4/25/1975					76.00
Alachua	Santa Fe	Hornsby	9/8/1976	475	7.40	23.0	0.28	
Alachua	Santa Fe	Hornsby	3/5/1985	412	7.00	22.0	0.68	120.00
Alachua	Santa Fe	Hornsby	4/11/1985					
Alachua	Santa Fe	Hornsby	8/15/1990	444	7.50	22.5	0.45	29.00
Alachua	Santa Fe	Hornsby	11/11/1992	390	7.34	19.8	0.69	
Alachua	Santa Fe	Hornsby	12/9/1992	430	7.45	22.2	0.75	
Alachua	Santa Fe	Hornsby	6/9/1993	430	7.08	22.4	0.84	
Alachua	Santa Fe	Hornsby	7/15/1993	428	7.18	22.6	1.92	
Alachua	Santa Fe	Hornsby	8/11/1993	430	7.21	22.8	0.91	
Alachua	Santa Fe	Hornsby	9/8/1993	438	6.92	23.1	0.81	
Alachua	Santa Fe	Hornsby	6/10/1994	435	7.30	22.6	0.69	
Alachua	Santa Fe	Hornsby	7/13/1994	451	7.31	22.7	0.64	
Alachua	Santa Fe	Hornsby	8/17/1994	465	7.24	22.7	0.65	
Alachua	Santa Fe	Hornsby	9/14/1994	437	7.28	22.8	0.61	
Alachua	Santa Fe	Hornsby	6/15/1995	456	7.21	22.5	0.73	
Alachua	Santa Fe	Hornsby	7/5/1995	453	7.18	22.4	0.76	
Alachua	Santa Fe	Hornsby	8/16/1995	501	7.38	23.0	0.54	
Alachua	Santa Fe	Hornsby	9/13/1995	483	7.34	22.6	0.60	
Alachua	Santa Fe	Hornsby	6/20/1996	441	7.01	22.6	0.75	
Alachua	Santa Fe	Hornsby	7/25/1996	444	6.85	22.3	0.70	
Alachua	Santa Fe	Hornsby	8/21/1996	415	7.37	22.7	0.84	
Alachua	Santa Fe	Hornsby	6/19/1997	463	7.16	22.4	0.69	88.90
Alachua	Santa Fe	Hornsby	7/21/1997	439	6.86	22.5	0.75	68.71
Alachua	Santa Fe	Hornsby	8/20/1997	462	7.01	22.6	0.73	93.31
Alachua	Santa Fe	Hornsby	4/27/1998	375	7.42	22.0	1.07	352.02
Alachua	Santa Fe	Hornsby	5/25/1998					310.00

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Alachua	Santa Fe	Hornsby	6/1/1998					286.00
Alachua	Santa Fe	Hornsby	6/8/1998					277.00
Alachua	Santa Fe	Hornsby	6/15/1998					259.00
Alachua	Santa Fe	Poe	2/19/1917					86.50
Alachua	Santa Fe	Poe	7/22/1924	368	7.30			0.11
Alachua	Santa Fe	Poe	1/31/1929					75.10
Alachua	Santa Fe	Poe	3/14/1932					31.20
Alachua	Santa Fe	Poe	12/13/1941					84.00
Alachua	Santa Fe	Poe	7/22/1946	368	7.30		0.11	75.30
Alachua	Santa Fe	Poe	5/2/1956	367	8.40	23.0		39.20
Alachua	Santa Fe	Poe	10/7/1960					91.70
Alachua	Santa Fe	Poe	2/25/1972	380	8.20	22.0	0.27	
Alachua	Santa Fe	Poe	4/18/1972			23.0		92.00
Alachua	Santa Fe	Poe	5/25/1972	380	8.20	22.0	0.30	
Alachua	Santa Fe	Poe	6/26/1997	409	7.22	22.4	0.63	50.59
Alachua	Santa Fe	Poe	4/27/1998	385	7.46	22.1	1.23	79.98
Alachua	Santa Fe	Poe	5/11/1998					75.00
Alachua	Santa Fe	Poe	5/18/1998					79.00
Alachua	Santa Fe	Poe	5/25/1998					73.00
Alachua	Santa Fe	Poe	6/1/1998					71.00
Columbia	Santa Fe	July	5/12/1975	380	7.60	22.0		58.00
Columbia	Santa Fe	Rum Island	9/16/1976	352	7.50	22.0	0.53	
Gilchrist	Santa Fe	Blue (Gilchrist)	4/28/1975	340	7.40	22.5		
Gilchrist	Santa Fe	Blue (Gilchrist)	8/15/1990	337	7.60	23.0	1.60	39.00
Gilchrist	Santa Fe	Blue (Gilchrist)	11/13/1992	308	7.34	21.2	1.61	
Gilchrist	Santa Fe	Blue (Gilchrist)	12/8/1992	426	6.79	22.3	1.53	
Gilchrist	Santa Fe	Blue (Gilchrist)	4/28/1993	340	7.40	22.5	0.88	42.00

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Gilchrist	Santa Fe	Blue (Gilchrist)	6/8/1993	327	7.22	22.6	1.55	
Gilchrist	Santa Fe	Blue (Gilchrist)	7/15/1993	334	7.13	22.7	0.93	
Gilchrist	Santa Fe	Blue (Gilchrist)	8/10/1993	335	7.73	22.4	2.01	
Gilchrist	Santa Fe	Blue (Gilchrist)	9/7/1993	334	7.15	22.5	1.82	
Gilchrist	Santa Fe	Blue (Gilchrist)	6/10/1994	338	7.48	22.6	1.79	
Gilchrist	Santa Fe	Blue (Gilchrist)	7/11/1994	335	7.49	22.6	1.75	
Gilchrist	Santa Fe	Blue (Gilchrist)	8/16/1994	455	7.45	22.4	1.69	
Gilchrist	Santa Fe	Blue (Gilchrist)	9/13/1994	341	7.40	22.4	1.65	
Gilchrist	Santa Fe	Blue (Gilchrist)	6/15/1995	347	7.37	22.7	1.68	
Gilchrist	Santa Fe	Blue (Gilchrist)	7/5/1995	351	7.35	22.6	1.67	
Gilchrist	Santa Fe	Blue (Gilchrist)	8/16/1995	352	7.42	22.8	1.51	
Gilchrist	Santa Fe	Blue (Gilchrist)	9/13/1995	348	7.48	22.6	1.71	
Gilchrist	Santa Fe	Blue (Gilchrist)	6/20/1996	360	7.06	22.8	1.92	
Gilchrist	Santa Fe	Blue (Gilchrist)	7/25/1996	346	7.15	22.5	1.65	
Gilchrist	Santa Fe	Blue (Gilchrist)	8/21/1996	340	7.60	22.6	1.74	
Gilchrist	Santa Fe	Blue (Gilchrist)	6/17/1997	345	6.91	22.5	1.66	31.51
Gilchrist	Santa Fe	Blue (Gilchrist)	7/2/1997	347	7.32	22.7	1.66	35.21
Gilchrist	Santa Fe	Blue (Gilchrist)	8/20/1997	353	7.23	22.5	1.68	38.82
Gilchrist	Santa Fe	Blue (Gilchrist)	4/27/1998	323	7.63	22.0	1.62	85.70
Gilchrist	Santa Fe	Ginnie	9/17/1974		7.70		0.62	
Gilchrist	Santa Fe	Ginnie	5/11/1998					53.00
Gilchrist	Santa Fe	Ginnie	5/18/1998					57.00
Gilchrist	Santa Fe	Ginnie	6/1/1998					51.00
Gilchrist	Santa Fe	Ginnie	6/15/1998					51
Gilchrist	Santa Fe	Lily	5/9/1975	410	7.60	22.0		32.00
Gilchrist	Santa Fe	Trail	11/11/1992	362	7.28	19.2	5.36	

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Gilchrist	Santa Fe	Trail	6/9/1993	358	7.26	21.5	4.96	
Gilchrist	Santa Fe	Trail	7/15/1993	322	7.18	21.5	0.86	
Gilchrist	Santa Fe	Trail	8/11/1993	315	7.27	21.9	2.52	
Gilchrist	Santa Fe	Trail	9/8/1993	307	6.78	21.6	1.91	
Gilchrist	Santa Fe	Trail	6/8/1994	367	7.26	21.2	4.42	
Gilchrist	Santa Fe	Trail	7/11/1995	364	7.11	21.7	4.54	
Gilchrist	Santa Fe	Trail	8/16/1995	353	7.41	21.8	3.75	
Gilchrist	Santa Fe	Trail	9/13/1995	358	7.49	21.7	4.38	
Gilchrist	Santa Fe	Trail	6/5/1996	382	7.00	21.4	4.96	
Gilchrist	Santa Fe	Trail	7/10/1996	421	6.83	21.4	4.90	
Gilchrist	Santa Fe	Trail	8/7/1996	378	7.48	21.8	5.35	
Gilchrist	Santa Fe	Trail	9/16/1997	397	6.72	21.9	6.30	
Union	Santa Fe	Worthington	7/16/1957	85	6.60	21.0		
Union	Santa Fe	Worthington	4/24/1972	242	7.80	20.0	0.26	0.06

Appendix C - Historical Data for Suwannee River Springs

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Dixie	Suwannee	Copper	5/12/1932					18.80
Dixie	Suwannee	Copper	11/18/1960					31.90
Dixie	Suwannee	Copper	11/11/1975	390	7.10	21.5	0.01	25.00
Dixie	Suwannee	Copper	7/21/1980	381	7.35	22.5	0.20	
Dixie	Suwannee	Copper	9/22/1997	420	6.73	21.3	0.01	20.73
Dixie	Suwannee	Guaranto	5/12/1932					12.40
Dixie	Suwannee	Guaranto	3/9/1962					3.41
Dixie	Suwannee	Guaranto	11/2/1972	343	8.40	22.0	0.14	12.00
Dixie	Suwannee	Guaranto	11/2/1973	343	6.80	22.0	0.60	1.14
Dixie	Suwannee	Guaranto	7/21/1980	342	7.50	22.0	0.74	
Dixie	Suwannee	Guaranto	6/6/1996	366	6.95	22.5	1.07	
Dixie	Suwannee	Guaranto	7/29/1996	368	6.95	22.2	2.38	
Dixie	Suwannee	Guaranto	8/8/1996	373	7.43	22.0	2.19	
Dixie	Suwannee	Guaranto	7/21/1997	366	7.06	21.9	1.48	12.76
Dixie	Suwannee	Iron	9/19/1997	403		21.0	0.17	7.18
Dixie	Suwannee	Little Copper	5/12/1932					1.98
Dixie	Suwannee	Little Copper	9/22/1997	437		20.8	0.03	6.35
Dixie	Suwannee	McCrabb	9/19/1997	431		20.9	0.05	5.44
Gilchrist	Suwannee	Bell	11/1/1972	364	8.50	22.0	0.60	5.00
Gilchrist	Suwannee	Bell	11/8/1977	220	8.20	21.0		1.00
Gilchrist	Suwannee	Bell	4/12/1978	175	7.90	22.0		1.00
Gilchrist	Suwannee	Hart	3/14/1932					40.00
Gilchrist	Suwannee	Hart	5/12/1932					62.10
Gilchrist	Suwannee	Hart	7/24/1946		7.30	23.0		58.60
Gilchrist	Suwannee	Hart	4/27/1956	353	7.90	23.0		58.60
Gilchrist	Suwannee	Hart	11/23/1960	347	7.90	18.0		152.00
Gilchrist	Suwannee	Hart	11/1/1972	385	8.50	22.0	0.80	79.00
Gilchrist	Suwannee	Hart	7/22/1980	387	7.40	23.0	1.48	
Gilchrist	Suwannee	Hart	6/12/1996	432	6.87	22.2	1.24	

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Gilchrist	Suwannee	Hart	7/24/1996	437	7.00	22.1	1.27	
Gilchrist	Suwannee	Hart	6/26/1997	432	7.11	22.1	1.15	51.28
Gilchrist	Suwannee	Hart	5/11/1998					95.00
Gilchrist	Suwannee	Hart	5/18/1998					96.00
Gilchrist	Suwannee	Hart	6/1/1998					90.00
Gilchrist	Suwannee	Lumbercamp	11/2/1972					6.20
Gilchrist	Suwannee	Otter	3/14/1932					5.00
Gilchrist	Suwannee	Otter	5/12/1932					5.45
Gilchrist	Suwannee	Otter	11/1/1972	390	8.50	22.5	1.00	16.00
Gilchrist	Suwannee	Otter	7/22/1980	211	7.70	22.5	2.82	
Gilchrist	Suwannee	Otter	9/19/1997	433		22.6	1.22	21.24
Gilchrist	Suwannee	Rock Bluff	12/8/1942					42.10
Gilchrist	Suwannee	Rock Bluff	4/19/1956					25.00
Gilchrist	Suwannee	Rock Bluff	4/26/1956	250	7.50	23.9	0.07	23.80
Gilchrist	Suwannee	Rock Bluff	11/17/1960	249	7.50	21.7	0.44	
Gilchrist	Suwannee	Rock Bluff	11/23/1960					40.30
Gilchrist	Suwannee	Rock Bluff	11/2/1972	270	8.10	22.0	0.50	39.00
Gilchrist	Suwannee	Rock Bluff	7/22/1980	272	7.50	23.0	1.21	
Gilchrist	Suwannee	Rock Bluff	8/14/1990	280	8.00	22.5	1.00	29.00
Gilchrist	Suwannee	Rock Bluff	11/5/1992	299	7.37	19.6	0.93	
Gilchrist	Suwannee	Rock Bluff	12/3/1992	293	7.53	18.8	1.02	
Gilchrist	Suwannee	Rock Bluff	6/3/1993	297	7.58	20.5	0.81	
Gilchrist	Suwannee	Rock Bluff	7/13/1993	240	7.24	21.8	1.01	
Gilchrist	Suwannee	Rock Bluff	8/5/1993	290	7.62	21.8	1.12	
Gilchrist	Suwannee	Rock Bluff	9/2/1993	290	7.18	21.8	1.05	
Gilchrist	Suwannee	Rock Bluff	6/7/1994	292	7.45	21.3	0.65	
Gilchrist	Suwannee	Rock Bluff	9/8/1994	313	7.51	21.4	0.63	
Gilchrist	Suwannee	Rock Bluff	6/7/1995	294	7.35	21.8	0.89	
Gilchrist	Suwannee	Rock Bluff	7/13/1995	299	7.01	21.8	0.89	

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Gilchrist	Suwannee	Rock Bluff	8/10/1995	302	7.48	22.0	0.90	
Gilchrist	Suwannee	Rock Bluff	9/7/1995	292	7.64	22.0	0.98	
Gilchrist	Suwannee	Rock Bluff	6/11/1996	297	7.10	21.8	0.88	
Gilchrist	Suwannee	Rock Bluff	7/23/1996	301	6.95	21.7	0.88	
Gilchrist	Suwannee	Rock Bluff	6/19/1997	306	7.24	22.1	0.96	38.29
Gilchrist	Suwannee	Rock Bluff	7/17/1997	313	7.01	21.8	0.97	27.64
Gilchrist	Suwannee	Rock Bluff	8/19/1997	307	7.05	21.9	0.97	
Gilchrist	Suwannee	Rock Bluff	5/11/1998					56.00
Gilchrist	Suwannee	Rock Bluff	5/25/1998					57.00
Gilchrist	Suwannee	Rock Bluff	6/8/1998					54.00
Gilchrist	Suwannee	Sun	11/2/1972	312	8.40	22.0	0.54	28.00
Gilchrist	Suwannee	Sun	7/22/1980	164	7.50	24.0	1.79	
Gilchrist	Suwannee	Sun	9/19/1997	366	6.93	23.3	1.79	31.15
Hamilton	Suwannee	Alapaha Rise	11/25/1975	225	7.60	19.0		508.00
Hamilton	Suwannee	Alapaha Rise	4/2/1976					699.00
Hamilton	Suwannee	Alapaha Rise	4/27/1976					594.00
Hamilton	Suwannee	Alapaha Rise	5/21/1976					632.00
Hamilton	Suwannee	Alapaha Rise	3/8/1985	177	7.00	17.5	0.25	580.00
Hamilton	Suwannee	Alapaha Rise	8/13/1990	298	7.50	22.5	0.06	308.00
Hamilton	Suwannee	Alapaha Rise	9/25/1997	314		21.4	0.24	
Hamilton	Suwannee	Holton Creek Rise	5/11/1998					500.00
Hamilton	Suwannee	Holton Creek Rise	5/18/1998					496.00
Hamilton	Suwannee	Holton Creek Rise	6/1/1998					184.00
Hamilton	Suwannee	Holton Creek Rise	6/8/1998					167.00
Hamilton	Suwannee	Holton Creek Rise	6/15/1998					105.00
Hamilton	Suwannee	White	2/13/1907					72.00
Hamilton	Suwannee	White	9/3/1923	210	7.40	20.0		
Hamilton	Suwannee	White	5/8/1927					67.20
Hamilton	Suwannee	White	5/17/1927					58.50

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Hamilton	Suwannee	White	11/4/1931					36.20
Hamilton	Suwannee	White	3/17/1932					46.40
Hamilton	Suwannee	White	4/20/1932					43.10
Hamilton	Suwannee	White	5/6/1946	317	7.20		0.29	62.70
Hamilton	Suwannee	White	4/25/1956	408	8.10	21.7	0.02	7.60
Hamilton	Suwannee	White	11/22/1960	232	7.70	21.7		10.30
Hamilton	Suwannee	White	4/18/1972	210	7.40	20.0		
Hamilton	Suwannee	White	6/6/1975					40.40
Hamilton	Suwannee	White	1/1/1976	255	7.50	20.5		
Hamilton	Suwannee	White	8/4/1980	249	7.70	21.5	0.28	
Hamilton	Suwannee	White	3/7/1985	254	7.60	21.0	0.01	4.00
Hamilton	Suwannee	White	8/9/1995	273	7.64	23.5	0.01	
Hamilton	Suwannee	White	9/14/1995	272	7.49	21.2	0.02	
Hamilton	Suwannee	White	9/25/1997	270		21.0	0.01	
Hamilton	Suwannee	White	4/27/1998					69.00
Hamilton	Suwannee	White	5/11/1998					84.00
Hamilton	Suwannee	White	5/18/1998					78.00
Hamilton	Suwannee	White	5/25/1998					79.00
Hamilton	Suwannee	White	6/8/1998					81.00
Hamilton	Suwannee	White	6/15/1998					43.00
Lafayette	Suwannee	Allen Mill Pond	11/26/1973	343	7.20	21.0		22.00
Lafayette	Suwannee	Allen Mill Pond	7/21/1980	334	7.65	23.0	1.44	
Lafayette	Suwannee	Allen Mill Pond	9/23/1997	390	6.68	21.2	1.24	11.23
Lafayette	Suwannee	Blue (Lafayette)	11/21/1973	400	7.20	21.5		
Lafayette	Suwannee	Blue (Lafayette)	11/23/1973					92.80
Lafayette	Suwannee	Blue (Lafayette)	7/21/1980	355	7.30	23.0	2.00	
Lafayette	Suwannee	Blue (Lafayette)	8/11/1995	426	7.46	22.0	1.46	
Lafayette	Suwannee	Blue (Lafayette)	9/18/1995	417	7.52	21.5	1.41	

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Lafayette	Suwannee	Blue (Lafayette)	6/6/1996	422	6.89	21.2	1.23	
Lafayette	Suwannee	Blue (Lafayette)	7/22/1996	428	6.84	21.3	2.12	
Lafayette	Suwannee	Blue (Lafayette)	8/8/1996	429	7.37	21.4	1.50	
Lafayette	Suwannee	Blue (Lafayette)	7/16/1997	424	7.21	21.5	1.80	84.62
Lafayette	Suwannee	Blue (Lafayette)	5/11/1998					260.00
Lafayette	Suwannee	Blue (Lafayette)	5/18/1998					225.00
Lafayette	Suwannee	Blue (Lafayette)	5/25/1998					192.00
Lafayette	Suwannee	Blue (Lafayette)	6/1/1998					170.00
Lafayette	Suwannee	Blue (Lafayette)	6/8/1998					171.00
Lafayette	Suwannee	Blue (Lafayette)	6/15/1998					162.00
Lafayette	Suwannee	Convict	11/26/1973	273	7.40	21.5		5.00
Lafayette	Suwannee	Convict	11/12/1992	387	7.34	20.8	6.69	
Lafayette	Suwannee	Convict	6/2/1993	402	7.54	21.3	7.40	
Lafayette	Suwannee	Convict	7/8/1993	410	7.45	21.4	8.08	
Lafayette	Suwannee	Convict	8/4/1993	411	7.35	21.5	8.36	
Lafayette	Suwannee	Convict	9/1/1993	407	7.43	21.5	8.12	
Lafayette	Suwannee	Convict	6/6/1994	420	7.31	21.4	8.58	
Lafayette	Suwannee	Convict	9/7/1994	405	7.25	21.3	6.45	
Lafayette	Suwannee	Convict	6/7/1995	441	7.27	21.4	8.12	
Lafayette	Suwannee	Convict	7/12/1995	424	7.00	21.6	7.36	
Lafayette	Suwannee	Convict	8/10/1995	430	7.33	21.6	7.76	
Lafayette	Suwannee	Convict	9/7/1995	430		21.5	7.59	
Lafayette	Suwannee	Convict	6/20/1996	421	6.95	21.5	8.10	
Lafayette	Suwannee	Convict	7/17/1996	417	6.94	21.5	6.78	
Lafayette	Suwannee	Convict	8/14/1996	423	7.52	21.5	8.88	
Lafayette	Suwannee	Convict	6/17/1997	455	7.12	21.7	9.66	7.66
Lafayette	Suwannee	Convict	7/7/1997	459	7.14	21.8	8.58	6.31
Lafayette	Suwannee	Convict	9/18/1997	436	6.60	21.6	7.54	4.64

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Lafayette	Suwannee	Fletcher	11/3/1972	333	8.50	22.0	0.60	40.00
Lafayette	Suwannee	Fletcher	7/21/1980	334	7.35	23.0	1.85	
Lafayette	Suwannee	Mearson	5/14/1927					50.60
Lafayette	Suwannee	Mearson	12/3/1975	317	7.60	21.5		62.00
Lafayette	Suwannee	Mearson	7/21/1980	331	7.30	22.0	1.48	
Lafayette	Suwannee	Mearson	6/19/1996	365	6.94	21.5	1.70	
Lafayette	Suwannee	Mearson	7/25/1996	372	7.07	21.5	1.92	
Lafayette	Suwannee	Mearson	8/16/1996	367	7.56	21.6	2.10	
Lafayette	Suwannee	Mearson	6/10/1997	371	7.2	21.4	1.90	60.74
Lafayette	Suwannee	Mearson	7/22/1997	376		21.4	1.77	60.54
Lafayette	Suwannee	Mearson	9/15/1997	377		21.4	1.64	68.52
Lafayette	Suwannee	Owens	9/10/1973	320	7.60	21.5	0.50	51.00
Lafayette	Suwannee	Owens	7/22/1980	314	7.80	23.0	1.54	
Lafayette	Suwannee	Owens	11/12/1992	392	7.26	20.9	3.72	
Lafayette	Suwannee	Owens	12/10/1992	440	7.33	18.3	2.84	
Lafayette	Suwannee	Owens	7/16/1993	380	7.53	21.4	3.37	
Lafayette	Suwannee	Owens	8/12/1993	373	7.38	21.4	3.20	
Lafayette	Suwannee	Owens	9/10/1993	372	7.00	21.4	2.49	
Lafayette	Suwannee	Owens	6/6/1994	393	7.26	21.0	3.62	
Lafayette	Suwannee	Owens	7/13/1994	503	7.17	21.1	4.16	
Lafayette	Suwannee	Owens	8/18/1994	398	7.27	21.3	4.37	
Lafayette	Suwannee	Pothole	9/23/1997	460		21.7	1.48	31.64
Lafayette	Suwannee	Ruth	11/14/1973	330	7.30	21.5		11.50
Lafayette	Suwannee	Ruth	6/19/1996	379	6.83	21.1	2.83	
Lafayette	Suwannee	Ruth	7/25/1996	390	7.23	21.1	3.73	
Lafayette	Suwannee	Ruth	8/19/1996	398	7.31	21.3	3.90	

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Lafayette	Suwannee	Ruth	6/24/1997	415		21.1	5.40	14.35
Lafayette	Suwannee	Troy	7/17/1942					149.00
Lafayette	Suwannee	Troy	11/22/1960	307	7.80	21.7	0.06	161.00
Lafayette	Suwannee	Troy	5/28/1963					148.00
Lafayette	Suwannee	Troy	10/16/1973	358	7.10	21.5	0.95	205.00
Lafayette	Suwannee	Troy	7/21/1980	314	7.50	23.0	1.46	
Lafayette	Suwannee	Troy	3/4/1985	320	7.00	21.5	1.20	110.00
Lafayette	Suwannee	Troy	8/15/1990	330	7.50	22.0	0.99	99.00
Lafayette	Suwannee	Troy	11/13/1992	341	7.34	19.8	1.69	
Lafayette	Suwannee	Troy	6/1/1993	355	7.22	20.8	1.66	
Lafayette	Suwannee	Troy	7/13/1993	358	7.18	21.0	1.76	
Lafayette	Suwannee	Troy	8/3/1993	355	7.42	21.1	1.95	
Lafayette	Suwannee	Troy	9/2/1993	348	6.87	21.1	1.94	
Lafayette	Suwannee	Troy	6/10/1994	349	7.36	20.9	1.52	
Lafayette	Suwannee	Troy	9/16/1994	340	7.28	21.1	1.49	
Lafayette	Suwannee	Troy	6/16/1995	366	7.37	21.2	1.85	
Lafayette	Suwannee	Troy	7/5/1995	358	7.35	21.3	1.17	
Lafayette	Suwannee	Troy	8/18/1995	358	7.55	21.3	1.71	
Lafayette	Suwannee	Troy	9/8/1995	357	7.62	21.3	1.86	
Lafayette	Suwannee	Troy	6/19/1996	355	7.00	21.2	1.53	
Lafayette	Suwannee	Troy	7/25/1996	357	7.31	21.3	1.77	
Lafayette	Suwannee	Troy	8/19/1996	353	7.58	21.3	1.79	
Lafayette	Suwannee	Troy	6/23/1997	372	7.23	21.3	2.72	93.45
Lafayette	Suwannee	Troy	7/15/1997	371	7.27	21.3	2.68	137.58
Lafayette	Suwannee	Troy	9/16/1997	369		21.4	2.42	141.63
Lafayette	Suwannee	Troy	5/11/1998					120.00
Lafayette	Suwannee	Troy	5/18/1998					155.00
Lafayette	Suwannee	Troy	5/25/1998					127.00

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Lafayette	Suwannee	Troy	6/1/1998					194.00
Lafayette	Suwannee	Troy	6/8/1998					207.00
Lafayette	Suwannee	Troy	6/15/1998					165.00
Lafayette	Suwannee	Turtle	11/3/1972	282	6.60	22.0	0.42	40.80
Lafayette	Suwannee	Turtle	7/21/1980	349	7.30	22.5		
Lafayette	Suwannee	Turtle	6/6/1996	366	6.96	22.0	0.62	
Lafayette	Suwannee	Turtle	7/29/1996	370	7.00	22.2	0.75	
Lafayette	Suwannee	Turtle	8/8/1996	374	7.47	22.0	0.69	
Lafayette	Suwannee	Turtle	9/22/1997	382		21.9	0.69	36.39
Levy	Suwannee	Fannin	10/25/1930					109.00
Levy	Suwannee	Fannin	3/14/1932					79.20
Levy	Suwannee	Fannin	12/17/1942					137.00
Levy	Suwannee	Fannin	7/24/1946	357	7.30	23.0	0.44	
Levy	Suwannee	Fannin	4/27/1956	342	7.90	23.0		
Levy	Suwannee	Fannin	5/1/1956	330	8.00	23.0	0.29	64.00
Levy	Suwannee	Fannin	11/18/1960	344	7.90	22.0	0.31	111.00
Levy	Suwannee	Fannin	3/27/1963					83.40
Levy	Suwannee	Fannin	4/19/1972	345	8.00	22.5	0.93	129.00
Levy	Suwannee	Fannin	4/25/1972					98.70
Levy	Suwannee	Fannin	7/31/1973					139.00
Levy	Suwannee	Fannin	7/21/1980	264	7.45	23.5	2.14	
Levy	Suwannee	Fannin	1/18/1985	405	6.60	22.0	2.60	188.00
Levy	Suwannee	Fannin	1/23/1986	331	7.10	21.0		
Levy	Suwannee	Fannin	8/14/1990	398	7.40	22.5	2.70	116.00
Levy	Suwannee	Fannin	6/8/1995	429	7.25	22.3	3.47	
Levy	Suwannee	Fannin	7/13/1995	442	6.98	22.2	3.52	
Levy	Suwannee	Fannin	8/14/1995	446	7.39	22.2	3.67	

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Levy	Suwannee	Fannin	9/11/1995	442	7.26	22.3	3.94	
Levy	Suwannee	Fannin	6/11/1996	437	7.00	22.2	3.28	
Levy	Suwannee	Fannin	7/23/1996	441	7.06	22.2	3.59	
Levy	Suwannee	Fannin	8/15/1996	442	7.43	22.2	3.44	
Levy	Suwannee	Fannin	6/16/1997	440	7.09	22.2	2.35	76.13
Levy	Suwannee	Fannin	7/24/1997	443	7.16	22.3	3.30	77.33
Levy	Suwannee	Fannin	8/18/1997	437	7.01	22.6	3.69	
Levy	Suwannee	Fannin	5/11/1998					62.00
Levy	Suwannee	Fannin	5/18/1998					69.00
Levy	Suwannee	Fannin	6/1/1998					116.00
Levy	Suwannee	Fannin	6/8/1998					104.00
Levy	Suwannee	Fannin	6/15/1998					109.00
Levy	Suwannee	Little Fannin	4/25/1972					29.90
Levy	Suwannee	Little Fannin	8/18/1997	435	6.90	22.2	3.67	14.25
Levy	Suwannee	Manatee	3/14/1932					149.00
Levy	Suwannee	Manatee	12/17/1942					218.00
Levy	Suwannee	Manatee	7/24/1946	402	7.40	23.0	0.37	137.00
Levy	Suwannee	Manatee	4/27/1956	390	8.00	23.0	0.40	110.00
Levy	Suwannee	Manatee	11/18/1960	354	7.80	22.0		238.00
Levy	Suwannee	Manatee	5/28/1963					145.00
Levy	Suwannee	Manatee	4/19/1972	413	8.00	22.0	0.60	220.00
Levy	Suwannee	Manatee	4/25/1972					210.00
Levy	Suwannee	Manatee	7/31/1973					203.00
Levy	Suwannee	Manatee	7/21/1980	438	7.30	21.0	2.68	
Levy	Suwannee	Manatee	1/18/1985	442	6.90	21.5		209.00
Levy	Suwannee	Manatee	1/23/1986	420	7.20	22.5		
Levy	Suwannee	Manatee	8/14/1990	439	7.50	22.5	1.20	125.00
Levy	Suwannee	Manatee	9/11/1995	444	7.27	22.2	1.64	
Levy	Suwannee	Manatee	6/12/1996	460	7.00	22.2	1.36	

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Levy	Suwannee	Manatee	7/23/1996	468	7.14	22.1	1.45	
Levy	Suwannee	Manatee	8/15/1996	467	7.65	22.1	1.48	
Levy	Suwannee	Manatee	6/25/1997	463	7.14	22.2	1.35	141.67
Levy	Suwannee	Manatee	5/11/1998					228.00
Levy	Suwannee	Manatee	5/18/1998					204.00
Levy	Suwannee	Manatee	6/1/1998					251.00
Levy	Suwannee	Manatee	6/8/1998					268.00
Levy	Suwannee	Manatee	6/15/1998					246.00
Suwannee	Suwannee	Anderson	8/4/1980	482	7.40	21.0	0.63	
Suwannee	Suwannee	Bathtub	7/30/1997	368	7.35	21.7	1.23	11.50
Suwannee	Suwannee	Bonnett	7/21/1980	340	7.55	23.0	0.41	
Suwannee	Suwannee	Branford	5/15/1927					12.40
Suwannee	Suwannee	Branford	3/15/1932					8.85
Suwannee	Suwannee	Branford	4/26/1956	366	7.90	23.0		8.52
Suwannee	Suwannee	Branford	11/17/1960	391	7.90	21.5		29.80
Suwannee	Suwannee	Branford	11/3/1972	345	6.80	22.0	0.60	29.20
Suwannee	Suwannee	Branford	7/22/1980	424	7.30	23.5	1.72	
Suwannee	Suwannee	Branford	9/8/1980	400	7.18	22.5	1.69	
Suwannee	Suwannee	Branford	6/19/1996	471	6.86	21.3	0.82	
Suwannee	Suwannee	Branford	7/22/1996	480	6.72	21.4	1.10	
Suwannee	Suwannee	Branford	8/19/1996	486	7.36	21.4	0.97	
Suwannee	Suwannee	Branford	7/21/1997	477	7.01	22.2	1.06	24.53
Suwannee	Suwannee	Branford	5/18/1998					46.00
Suwannee	Suwannee	Branford	5/25/1998					45.00
Suwannee	Suwannee	Charles	12/12/1941					9.41
Suwannee	Suwannee	Charles	5/29/1942					36.90
Suwannee	Suwannee	Charles	4/25/1956					7.97
Suwannee	Suwannee	Charles	11/17/1960					33.00
Suwannee	Suwannee	Charles	11/19/1973	305	7.70	21.0	2.86	19.20

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Suwannee	Suwannee	Charles	7/22/1980	295	7.40	23.5	2.50	
Suwannee	Suwannee	Charles	8/18/1995	354	7.00	20.8	2.22	
Suwannee	Suwannee	Charles	9/7/1995	349	7.38	20.9	2.24	
Suwannee	Suwannee	Charles	6/18/1996	368	6.83	20.3	0.96	
Suwannee	Suwannee	Charles	7/17/1996	382	7.01	20.4	1.50	
Suwannee	Suwannee	Charles	8/20/1996	370	7.41	20.7	1.93	
Suwannee	Suwannee	Charles	6/13/1997	376	7.01	20.5	2.09	19.22
Suwannee	Suwannee	Charles	7/16/1997	374	7.11	20.6	2.07	16.35
Suwannee	Suwannee	Charles	9/17/1997	370	6.74	21.0	2.00	9.41
Suwannee	Suwannee	Charles	5/1/1998					36.00
Suwannee	Suwannee	Charles	5/18/1998					48.00
Suwannee	Suwannee	Charles	5/25/1998					49.00
Suwannee	Suwannee	Charles	6/1/1998					45.00
Suwannee	Suwannee	Charles	6/8/1998					42.00
Suwannee	Suwannee	Charles	6/15/1998					42.00
Suwannee	Suwannee	Charles	5/13/1927					7.40
Suwannee	Suwannee	Charles	5/15/1927					17.90
Suwannee	Suwannee	Ellaville	12/9/1942					41.20
Suwannee	Suwannee	Ellaville	11/16/1960					27.90
Suwannee	Suwannee	Ellaville	11/8/1973	356	7.30	21.0		82.00
Suwannee	Suwannee	Ellaville	7/21/1980	342	7.30	22.0	1.04	
Suwannee	Suwannee	Ellaville	8/16/1990	361	7.40	21.0	0.56	19.00
Suwannee	Suwannee	Falmouth	2/10/1933					365.00
Suwannee	Suwannee	Falmouth	12/9/1942					59.60
Suwannee	Suwannee	Falmouth	7/22/1946					157.00
Suwannee	Suwannee	Falmouth	11/16/1960					183.00
Suwannee	Suwannee	Falmouth	11/15/1973	351	7.30	21.0	0.69	159.00
Suwannee	Suwannee	Falmouth	7/21/1980	350	7.25	21.0	0.98	
Suwannee	Suwannee	Falmouth	6/2/1994	357	7.28	20.2	0.52	

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Suwannee	Suwannee	Falmouth	7/6/1994	370	7.26	21.3	0.53	
Suwannee	Suwannee	Falmouth	8/9/1994	369	7.24	20.4	0.68	
Suwannee	Suwannee	Falmouth	6/13/1995	376	7.19	20.8	0.91	
Suwannee	Suwannee	Falmouth	7/6/1995	379	7.12	21.0	0.97	
Suwannee	Suwannee	Falmouth	8/8/1995	380	7.14	21.1	0.96	
Suwannee	Suwannee	Falmouth	9/5/1995	382	7.36	21.0	1.04	
Suwannee	Suwannee	Falmouth	6/18/1996	366	6.85	21.1	0.14	
Suwannee	Suwannee	Falmouth	7/16/1996	381	7.01	22.0	1.91	
Suwannee	Suwannee	Falmouth	8/12/1996	370	7.45	20.8	0.70	
Suwannee	Suwannee	Falmouth	6/18/1997	387	6.79	20.9	0.81	87.82
Suwannee	Suwannee	Falmouth	7/11/1997	388	7.15	21.1	0.90	75.88
Suwannee	Suwannee	Falmouth	8/14/1997	347	6.86	21.4	0.67	52.54
Suwannee	Suwannee	Lime	8/4/1980	349	7.80	22.5	0.97	
Suwannee	Suwannee	Little River	11/27/1976	352	7.30	22.0		84.00
Suwannee	Suwannee	Little River	7/21/1980	334	7.45	21.0	3.02	
Suwannee	Suwannee	Little River	7/22/1980	345	7.80	23.0	1.88	
Suwannee	Suwannee	Little River	6/10/1994	367	7.33	21.6	1.26	
Suwannee	Suwannee	Little River	9/16/1994	373	7.28	21.7	1.21	
Suwannee	Suwannee	Little River	6/16/1995	372	7.24	21.9	1.49	
Suwannee	Suwannee	Little River	7/5/1995	372	7.25	21.9	1.40	
Suwannee	Suwannee	Little River	8/18/1995	375	7.54	21.8	1.29	
Suwannee	Suwannee	Little River	9/8/1995	368	7.60	21.8	1.30	
Suwannee	Suwannee	Little River	6/19/1996	370	7.05	21.7	1.19	
Suwannee	Suwannee	Little River	7/25/1996	373	7.28	21.8	1.28	
Suwannee	Suwannee	Little River	8/19/1996	368	7.57	21.8	1.27	
Suwannee	Suwannee	Little River	6/10/1997	371	7.25	21.8	1.53	88.17
Suwannee	Suwannee	Little River	7/15/1997	376	7.28	21.8	1.30	76.11
Suwannee	Suwannee	Little River	9/16/1997	386		21.8	1.38	84.89

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Suwannee	Suwannee	Little River	5/11/1998					228.00
Suwannee	Suwannee	Little River	5/25/1998					196.00
Suwannee	Suwannee	Little River	6/1/1998					173.00
Suwannee	Suwannee	Little River	6/8/1998					153.00
Suwannee	Suwannee	Little River	6/15/1998					143.00
Suwannee	Suwannee	Orange Grove	6/18/1996	369	6.84	22.5	1.37	
Suwannee	Suwannee	Orange Grove	7/22/1996	360	6.89	23.9	0.49	
Suwannee	Suwannee	Orange Grove	8/20/1996	357	7.33	24.1	0.09	
Suwannee	Suwannee	Peacock	11/20/1973	346	7.40	22.0		14.80
Suwannee	Suwannee	Peacock	12/20/1983	327	7.32	21.8	2.16	
Suwannee	Suwannee	Peacock	11/12/1992	362	7.47	19.1	2.48	
Suwannee	Suwannee	Peacock	12/10/1992	428	7.31	18.9	2.03	
Suwannee	Suwannee	Peacock	6/11/1993	362	7.20	21.6	2.16	
Suwannee	Suwannee	Peacock	7/16/1993	362	7.26	21.5	2.44	
Suwannee	Suwannee	Peacock	8/12/1993	365	7.38	21.5	2.54	
Suwannee	Suwannee	Peacock	9/10/1993	365	7.19	21.5	2.22	
Suwannee	Suwannee	Peacock	8/18/1995	372	7.10	21.7	2.32	
Suwannee	Suwannee	Peacock	9/8/1995	374	7.54	21.7	2.16	
Suwannee	Suwannee	Peacock	6/18/1996	330	6.95	24.5	0.28	
Suwannee	Suwannee	Peacock	7/22/1996	382	7.05	22.1	1.93	
Suwannee	Suwannee	Peacock	8/20/1996	383	7.47	21.7	2.21	
Suwannee	Suwannee	Peacock	7/30/1997	379	7.33	21.8	2.51	8.87
Suwannee	Suwannee	Royal	8/4/1980	328	7.70	22.5	1.45	
Suwannee	Suwannee	Royal	6/11/1988	340	8.10	22.0		50.90
Suwannee	Suwannee	Royal	11/13/1992	347	7.52	21.0	1.80	
Suwannee	Suwannee	Royal	12/10/1992	418	7.46	18.8	0.64	
Suwannee	Suwannee	Royal	6/11/1993	354	7.28	21.7	1.62	
Suwannee	Suwannee	Royal	7/16/1993	345	7.38	21.8	1.45	
Suwannee	Suwannee	Royal	8/12/1993	358	7.54	21.8	1.06	

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Suwannee	Suwannee	Royal	9/10/1993	366	7.11	21.8	0.20	
Suwannee	Suwannee	Royal	6/6/1994	357	7.50	21.7	1.87	
Suwannee	Suwannee	Royal	8/18/1994	364	7.34	21.7	1.17	
Suwannee	Suwannee	Royal	9/16/1994	360	7.39	21.6	1.61	
Suwannee	Suwannee	Royal	6/16/1995	371	7.38	21.8	1.27	
Suwannee	Suwannee	Royal	7/12/1995	374	7.19	21.8	1.35	
Suwannee	Suwannee	Royal	8/18/1995	367	7.75	21.8	1.16	
Suwannee	Suwannee	Royal	9/8/1995	374	7.54	21.8	0.97	
Suwannee	Suwannee	Royal	6/18/1996	366	6.94	22.0	2.09	
Suwannee	Suwannee	Royal	7/22/1996	360	7.08	21.9	2.17	
Suwannee	Suwannee	Royal	8/20/1996	370	7.6	22.1	2.03	
Suwannee	Suwannee	Royal	6/12/1997	369	7.29	21.8	1.64	13.11
Suwannee	Suwannee	Royal	7/7/1997	359	7.29	21.9	1.30	14.15
Suwannee	Suwannee	Royal	8/19/1997	371	7.14	21.7	1.28	11.44
Suwannee	Suwannee	Royal	9/17/1997	373		21.9	1.69	6.23
Suwannee	Suwannee	Royal	5/11/1998					29.00
Suwannee	Suwannee	Royal	5/18/1998					26.00
Suwannee	Suwannee	Royal	5/25/1998					25.00
Suwannee	Suwannee	Royal	6/1/1998					25.00
Suwannee	Suwannee	Running	11/27/1973	351	7.30	21.5		77.00
Suwannee	Suwannee	Running	7/22/1980	344	7.90	22.5	1.83	
Suwannee	Suwannee	Running	11/12/1992	365	7.44	19.0	2.00	
Suwannee	Suwannee	Running	12/10/1992	451	7.53	18.8	1.73	
Suwannee	Suwannee	Running	6/11/1993	362	7.19	21.1	1.71	
Suwannee	Suwannee	Running	7/16/1993	372	7.26	21.2	2.05	
Suwannee	Suwannee	Running	8/12/1993	366	7.38	21.2	2.08	
Suwannee	Suwannee	Running	9/10/1993	377	7.25	21.2	1.95	
Suwannee	Suwannee	Running	6/6/1994	364	7.39	21.2	2.16	
Suwannee	Suwannee	Running	7/13/1994	372	7.38	21.1	2.06	

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Suwannee	Suwannee	Running	8/18/1994	371	7.33	21.3	2.20	
Suwannee	Suwannee	Running	9/16/1994	372	7.36	21.3	2.18	
Suwannee	Suwannee	Running	6/16/1995	377	7.24	21.3	1.92	
Suwannee	Suwannee	Running	6/24/1997	378	7.21	21.5	1.41	22.44
Suwannee	Suwannee	Shingle	7/21/1997	452	6.98	21.0	1.38	12.13
Suwannee	Suwannee	Suwannee	4/25/1956	369	8.10	20.0		2.35
Suwannee	Suwannee	Suwannee	11/16/1960	322	7.80	21.0		
Suwannee	Suwannee	Suwannee	6/4/1964					71.50
Suwannee	Suwannee	Suwannee	5/11/1966	330	7.50	21.5		60.00
Suwannee	Suwannee	Suwannee	5/11/1967	322	7.70	21.0		19.00
Suwannee	Suwannee	Suwannee	5/1/1968	330	7.50	21.0		5.00
Suwannee	Suwannee	Suwannee	4/22/1969	280	7.70	21.0		18.00
Suwannee	Suwannee	Suwannee	5/19/1970	270	7.20	20.5		
Suwannee	Suwannee	Suwannee	5/4/1973	168		23.5		57.00
Suwannee	Suwannee	Suwannee	11/19/1973	333	7.50	21.0		12.00
Suwannee	Suwannee	Suwannee	11/9/1977	340	6.90	21.0		33.00
Suwannee	Suwannee	Suwannee	6/24/1997	320	7.16	20.6	0.02	14.07
Suwannee	Suwannee	Suwannee	5/11/1998					42.00
Suwannee	Suwannee	Suwannee	5/18/1998					55.00
Suwannee	Suwannee	Suwannee	5/25/1998					40.00
Suwannee	Suwannee	Suwannee	6/8/1998					31.00
Suwannee	Suwannee	Suwannee	6/15/1998					34.00
Suwannee	Suwannee	Suwannee Blue	6/23/1997	373	7.10	22.0	5.95	22.41
Suwannee	Suwannee	Suwannee Blue	7/22/1997	384	7.08	21.6	7.65	25.05
Suwannee	Suwannee	Suwannee Blue	8/19/1997	363	7.12	21.7	5.31	22.31
Suwannee	Suwannee	Suwannee Blue	9/17/1997	365	6.70	21.6	5.08	19.12
Suwannee	Suwannee	Telford	5/14/1927					35.10
Suwannee	Suwannee	Telford	12/12/1941					28.00
Suwannee	Suwannee	Telford	5/29/1942					48.20

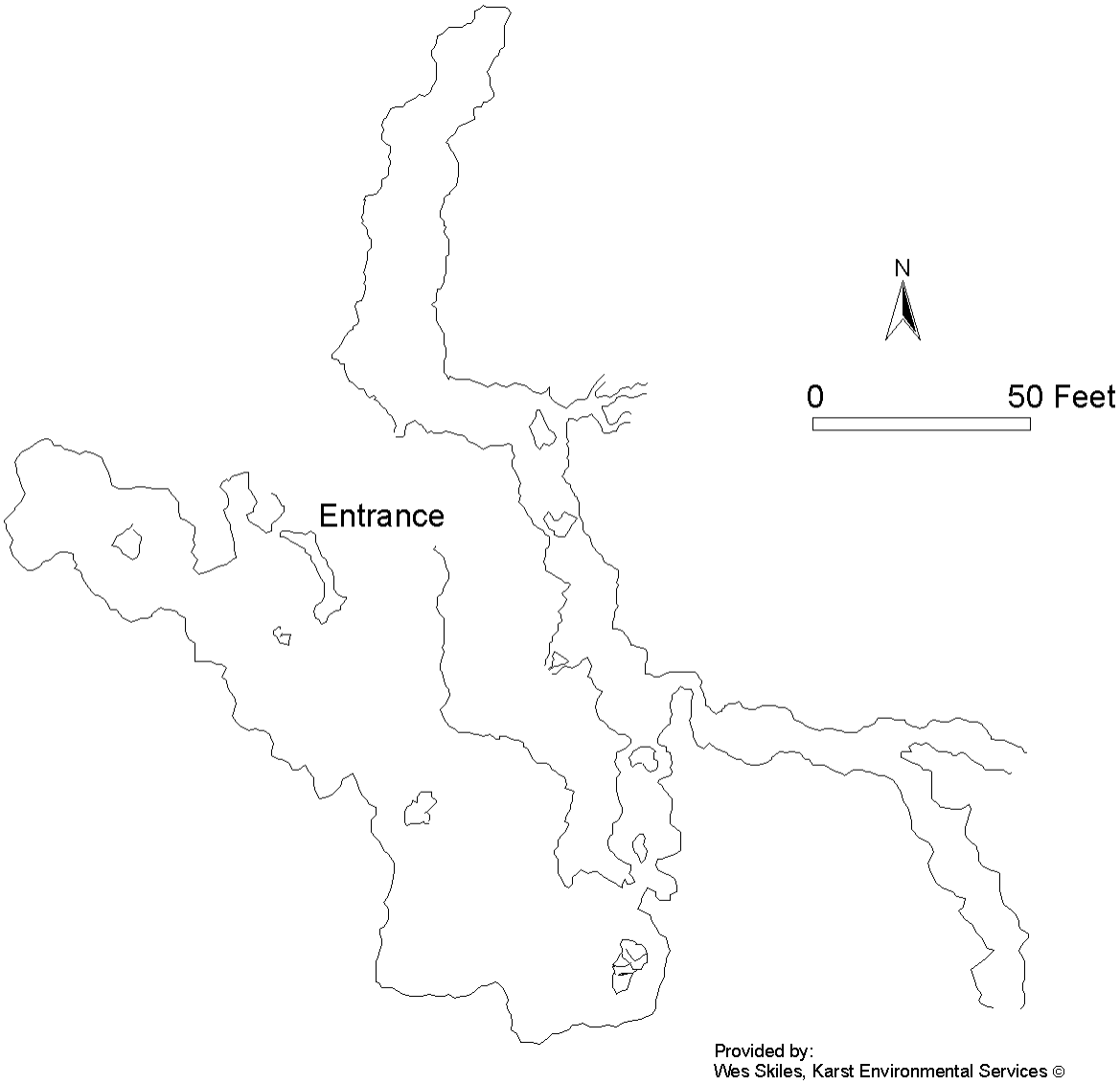
County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Suwannee	Suwannee	Telford	11/17/1960	391	7.90	21.5		53.50
Suwannee	Suwannee	Telford	11/21/1973	423	7.40	21.0		34.00
Suwannee	Suwannee	Telford	7/21/1980	407	7.40	22.5	2.56	
Suwannee	Suwannee	Telford	3/4/1985	425	7.30	22.0	2.00	30.00
Suwannee	Suwannee	Telford	8/16/1990	422	7.40	21.5	2.30	24.00
Suwannee	Suwannee	Telford	11/4/1991	431	7.20	19.5		42.00
Suwannee	Suwannee	Telford	11/12/1992	445	7.33	18.6	2.29	
Suwannee	Suwannee	Telford	12/10/1992	375	7.21	15.0	1.65	
Suwannee	Suwannee	Telford	6/11/1993	444	7.06	20.8	2.22	
Suwannee	Suwannee	Telford	7/16/1993	440	7.25	21.0	2.50	
Suwannee	Suwannee	Telford	8/12/1993	443	7.25	21.1	2.77	
Suwannee	Suwannee	Telford	9/10/1993	439	7.12	21.1	2.18	
Suwannee	Suwannee	Telford	6/6/1994	444	7.23	20.9	2.57	
Suwannee	Suwannee	Telford	9/16/1994	450	7.16	21.1	2.12	
Suwannee	Suwannee	Telford	6/16/1995	450	7.07	21.2	2.77	
Suwannee	Suwannee	Telford	7/12/1995	456	6.99	21.2	0.48	
Suwannee	Suwannee	Telford	8/18/1995	445	6.99	21.4	2.35	
Suwannee	Suwannee	Telford	9/8/1995	446	7.42	21.3	2.37	
Suwannee	Suwannee	Telford	6/18/1996	443	6.83	21.2	2.22	
Suwannee	Suwannee	Telford	7/17/1996	457	7.00	21.2	2.13	
Suwannee	Suwannee	Telford	8/20/1996	452	7.43	21.3	2.28	
Suwannee	Suwannee	Telford	6/13/1997	465	7.03	21.2	2.71	36.46
Suwannee	Suwannee	Telford	7/16/1997	463	7.10	21.3	2.21	41.58
Suwannee	Suwannee	Telford	9/17/1997	460		21.3	2.11	40.15
Suwannee	Suwannee	Telford	5/11/1998					108.00
Suwannee	Suwannee	Telford	5/18/1998					76.00
Suwannee	Suwannee	Telford	5/25/1998					70.00
Suwannee	Suwannee	Telford	6/1/1998					69.00
Suwannee	Suwannee	Telford	6/15/1998					51.00

Appendix D - Historical Data for Withlacoochee River Springs

County	River	Spring Name	Date	Sp. Conductance	pH	Temp (°C)	Nitrate as N	Discharge (cfs)
Madison	Withlacoochee	Blue	3/16/1932					75.00
Madison	Withlacoochee	Blue	7/23/1932					145.00
Madison	Withlacoochee	Blue	7/23/1946	262	7.60	21.5	0.33	
Madison	Withlacoochee	Blue	4/24/1956	260	7.90	20.0		77.80
Madison	Withlacoochee	Blue	11/15/1960	257	7.70	21.1		141.00
Madison	Withlacoochee	Blue	5/28/1963					113.00
Madison	Withlacoochee	Blue	11/6/1973	261	7.70	21.0	0.52	138.00
Madison	Withlacoochee	Blue	3/7/1985	267	7.70	21.0	1.00	75.00
Madison	Withlacoochee	Blue	8/13/1990	272	7.80	21.5	1.20	88.00
Madison	Withlacoochee	Blue	5/11/1998					187.00
Madison	Withlacoochee	Blue	5/18/1998					206.00
Madison	Withlacoochee	Blue	5/25/1998					166.00
Madison	Withlacoochee	Blue	6/1/1998					162.00
Madison	Withlacoochee	Blue	6/15/1998					120.00
Madison	Withlacoochee	Suwanacoochee	11/6/1931					40.80
Madison	Withlacoochee	Suwanacoochee	3/16/1932					18.30
Madison	Withlacoochee	Suwanacoochee	11/15/1960	352	7.90	21.0		
Madison	Withlacoochee	Suwanacoochee	11/8/1973	370	7.30	21.0		51.60
Madison	Withlacoochee	Suwanacoochee	7/21/1980	346	7.40	21.5	1.21	
Madison	Withlacoochee	Suwanacoochee	9/24/1997	383		20.7	0.73	35.46

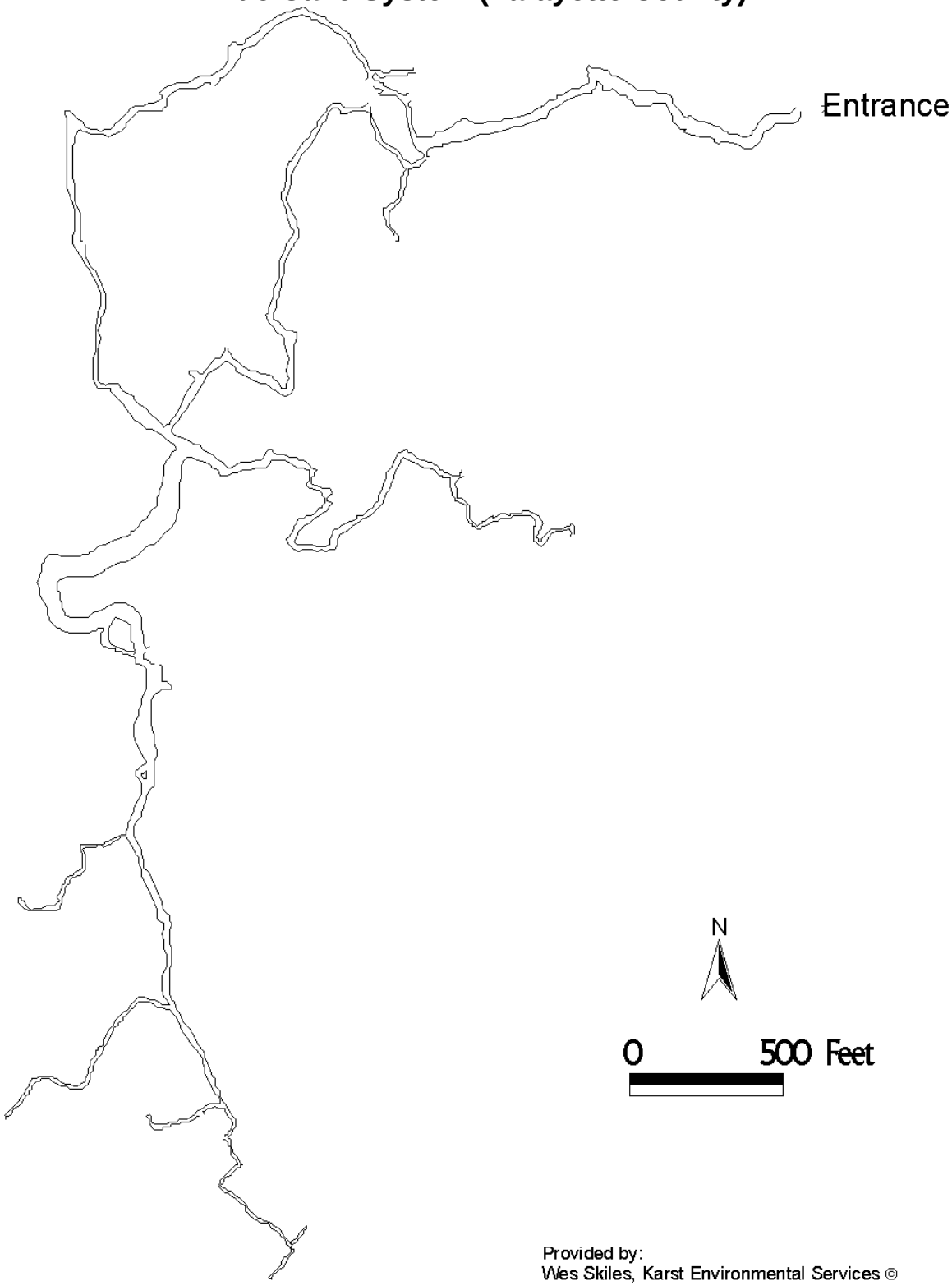
Appendix E- Cave Maps for Springs Systems in the Suwannee River Basin

Blue Hole Cave System



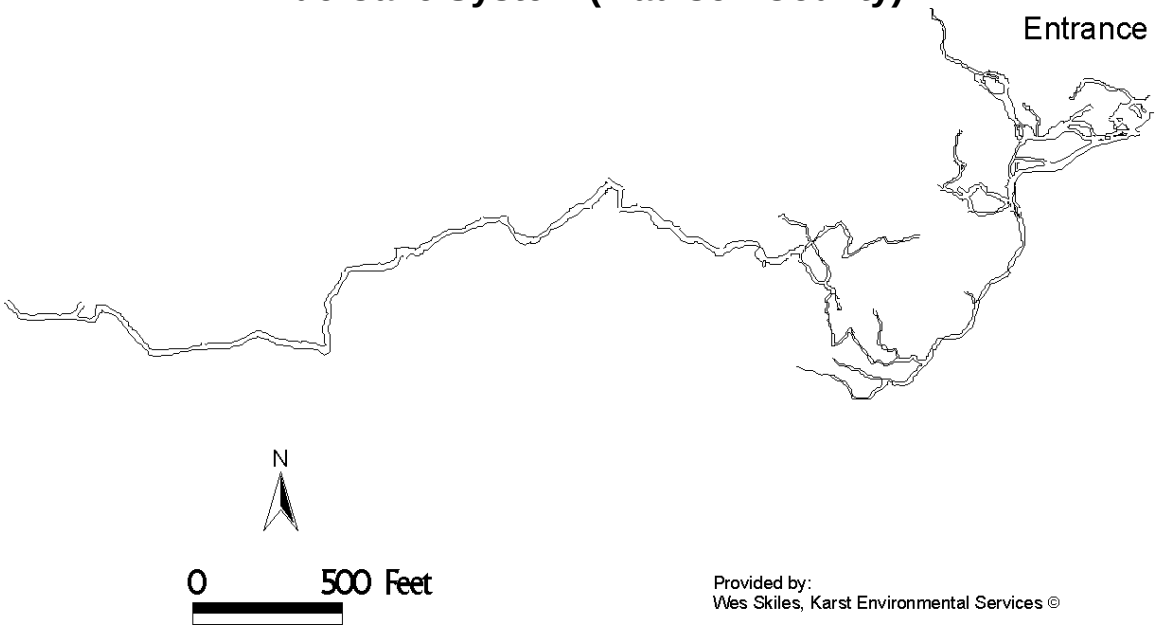
This map is for general informational purposes only and does not conform to National Map Accuracy Standards.

Blue Cave System (Lafayette County)



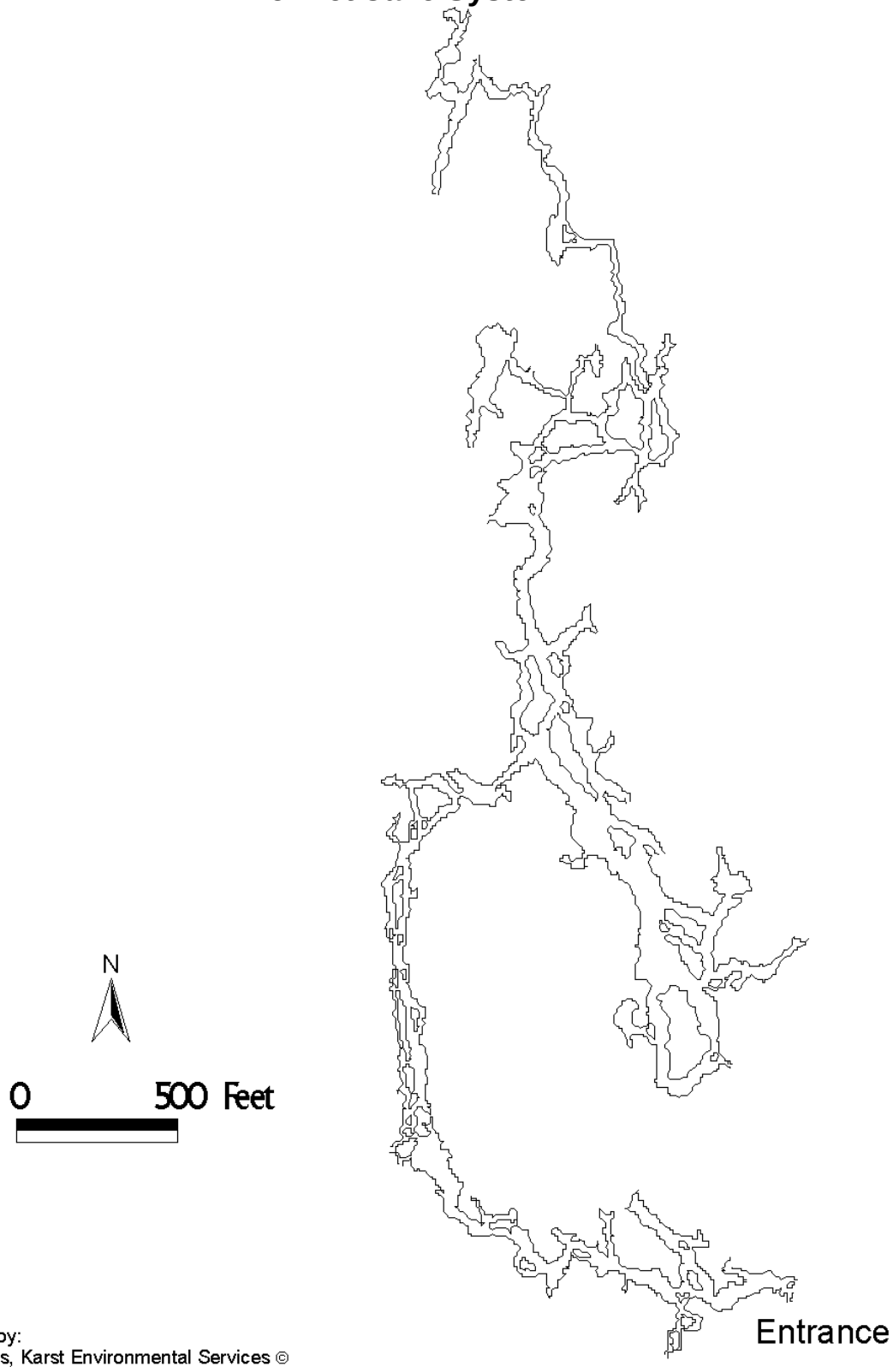
This map is for general informational purposes only and does not conform to National Map Accuracy Standards.

Blue Cave System (Madison County)



This map is for general informational purposes only and does not conform to National Map Accuracy Standards.

Bonnet Cave System



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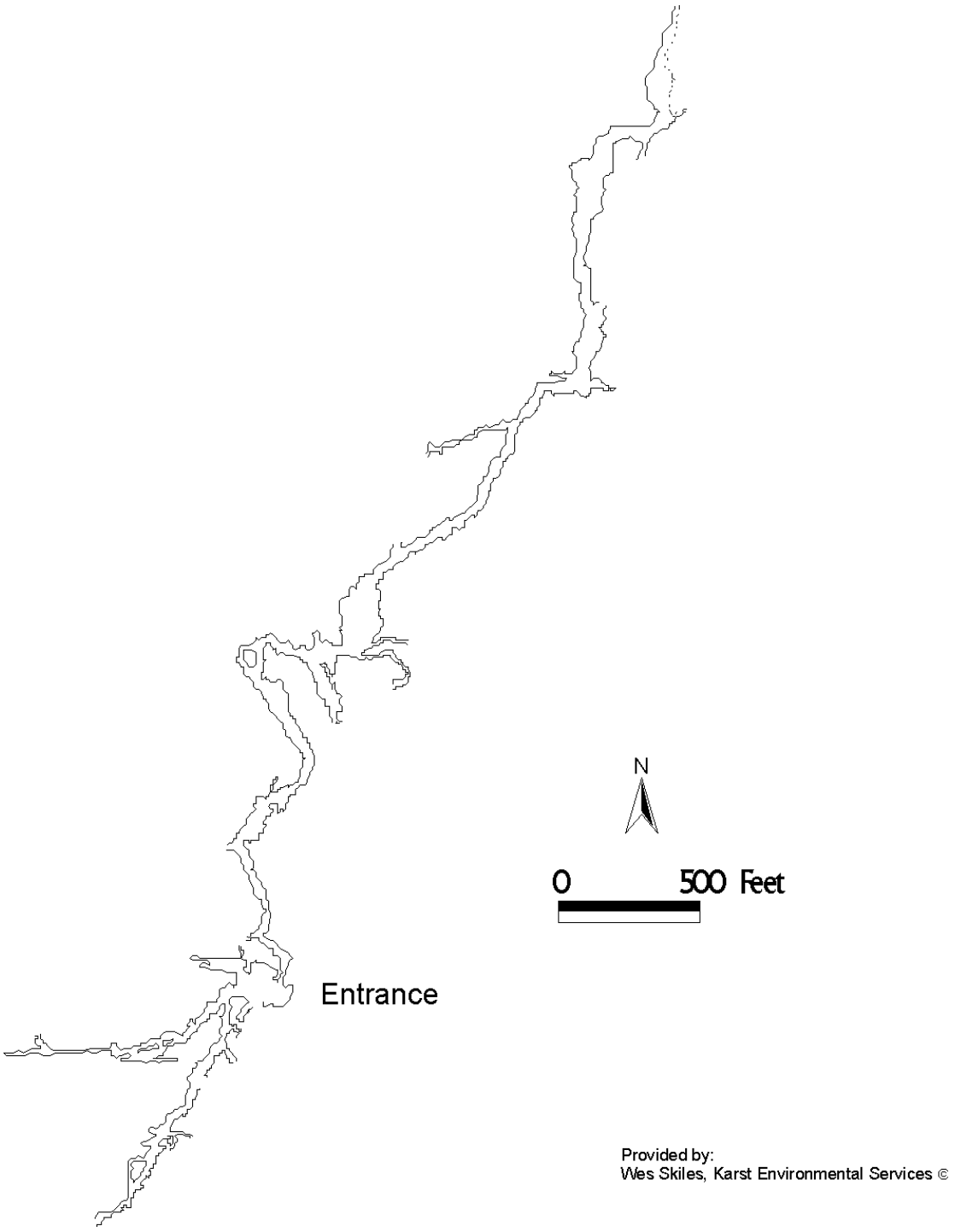
SWIM

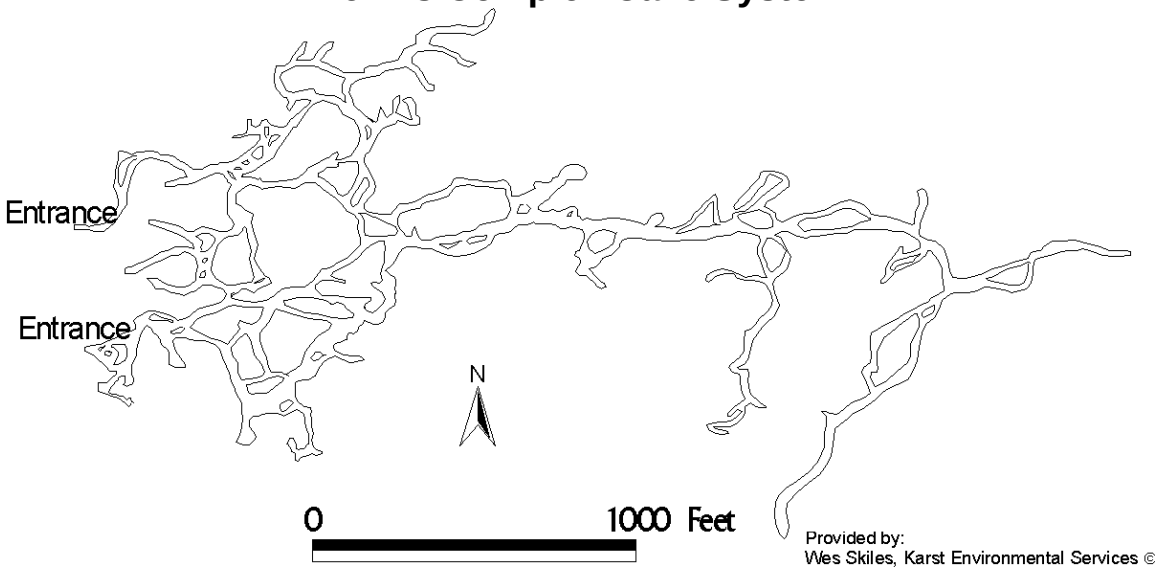
Cow Cave System



This map is for general informational purposes only and does not conform to National Map Accuracy Standards.

SWIM

Devil's Complex Cave System



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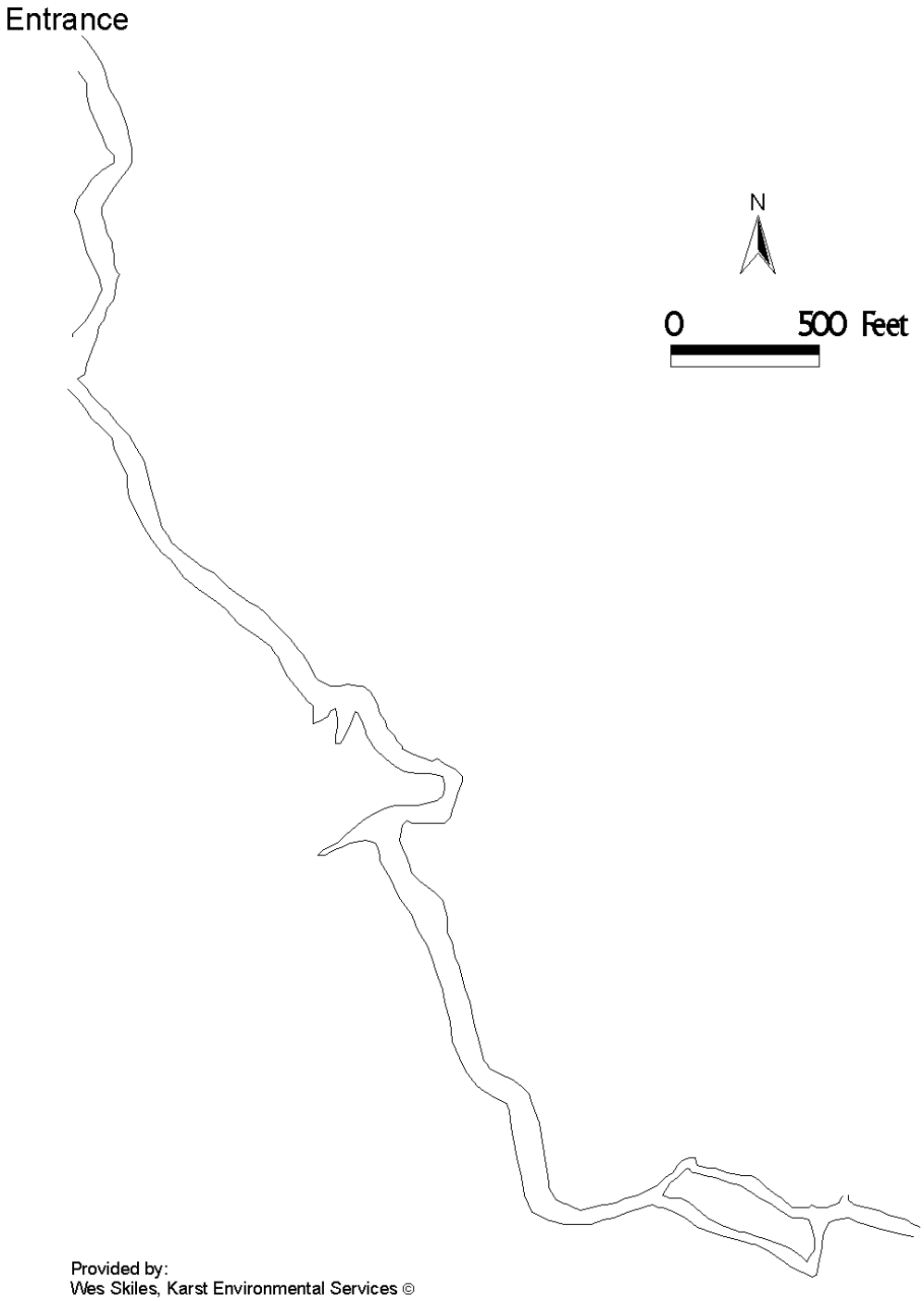
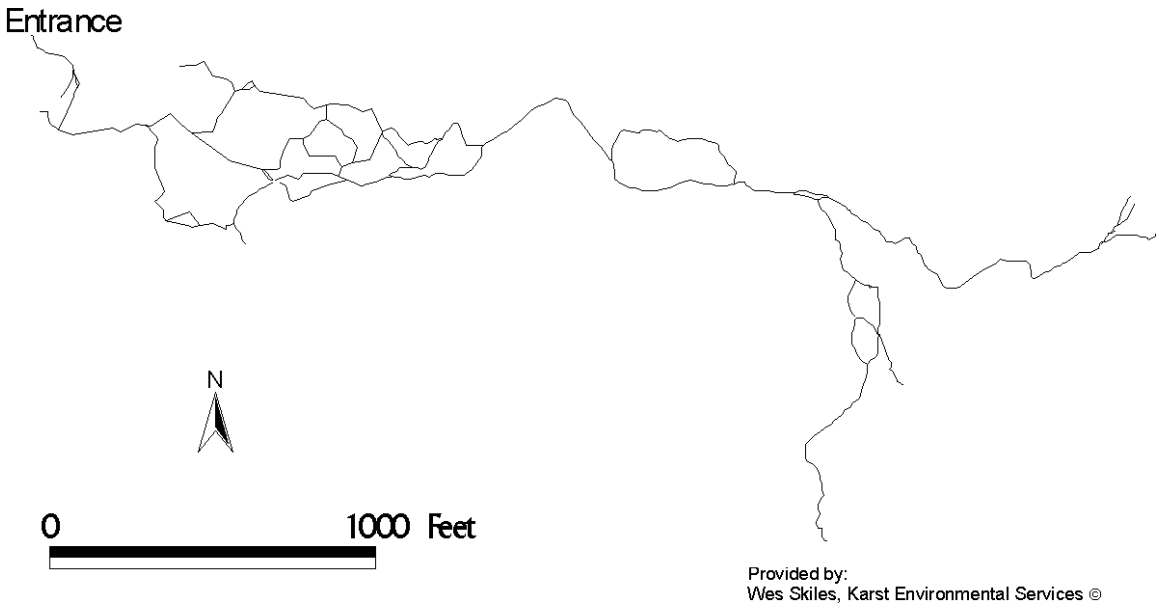
Falmouth Cave System



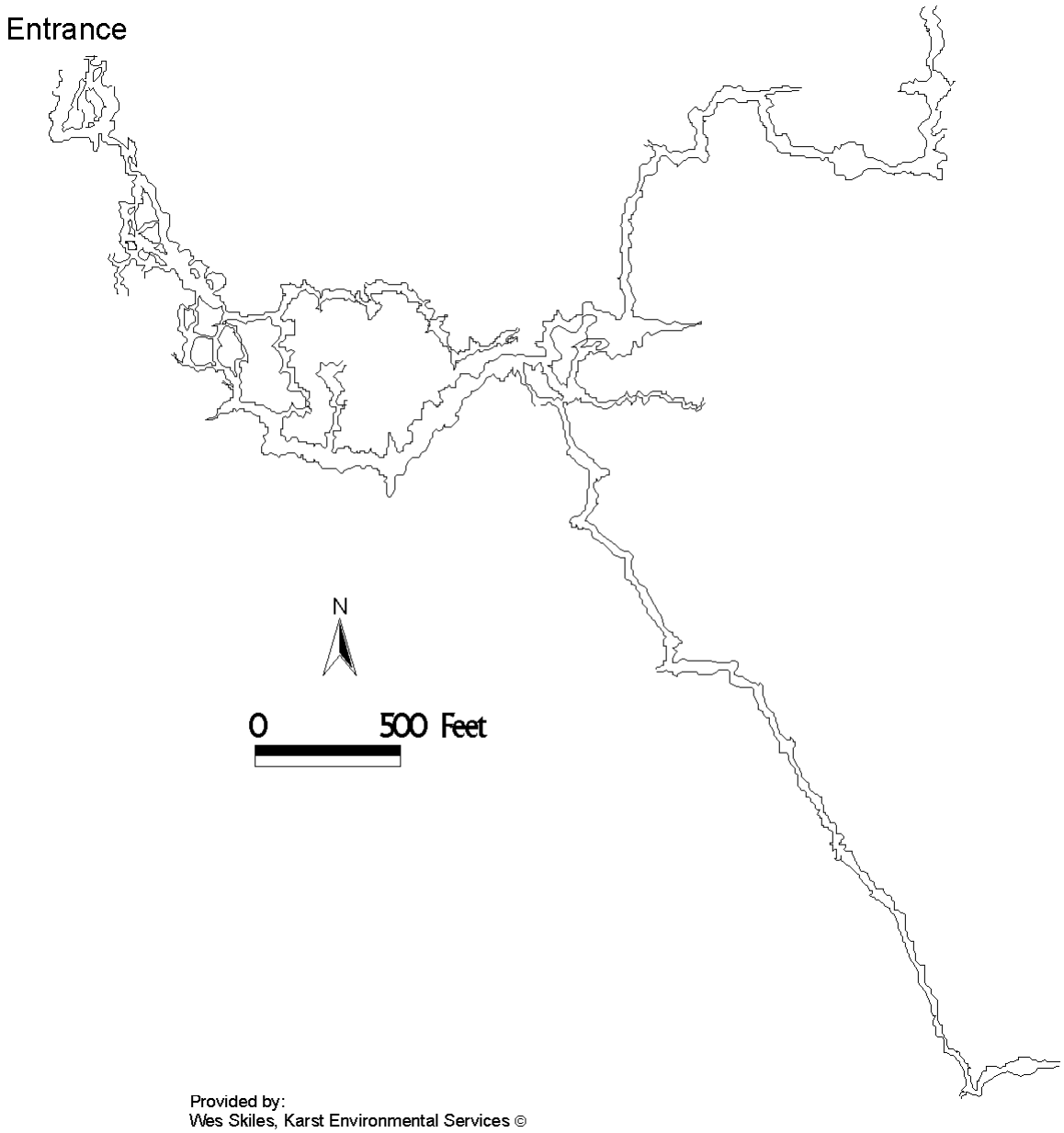
This map is for general informational purposes only and does not conform to National Map Accuracy Standards.

Hart Cave System



This map is for general informational purposes only and does not conform to National Map Accuracy Standards.

Little River Cave System



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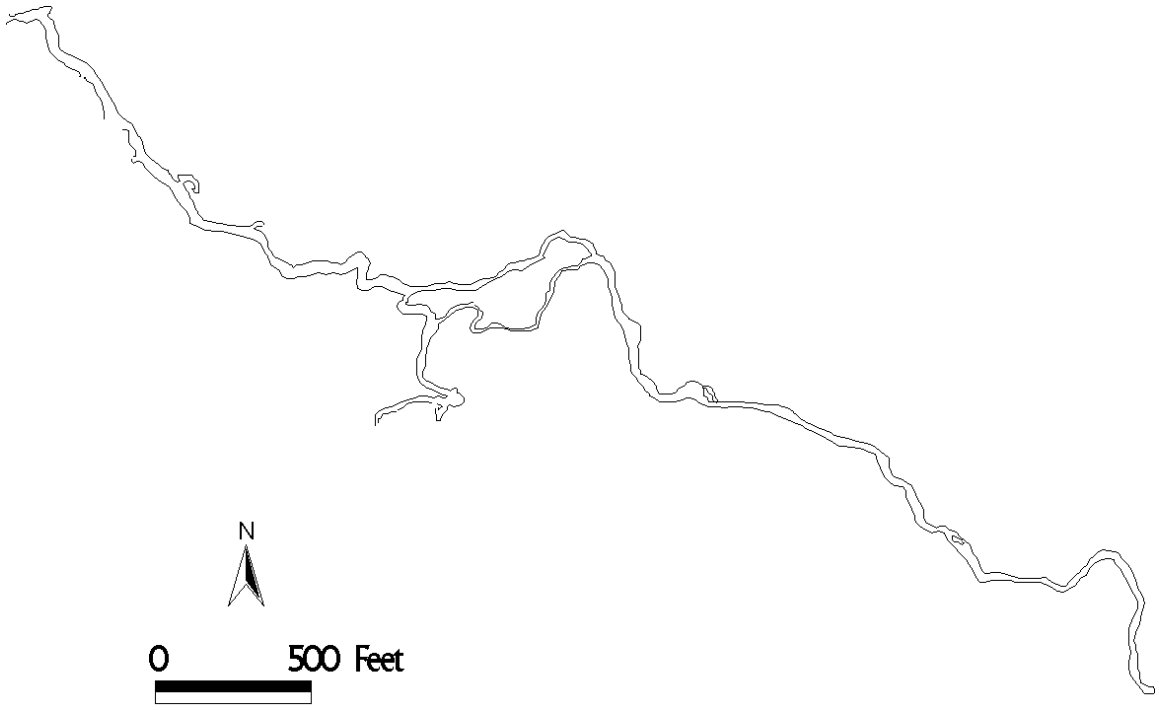
Manatee Cave System



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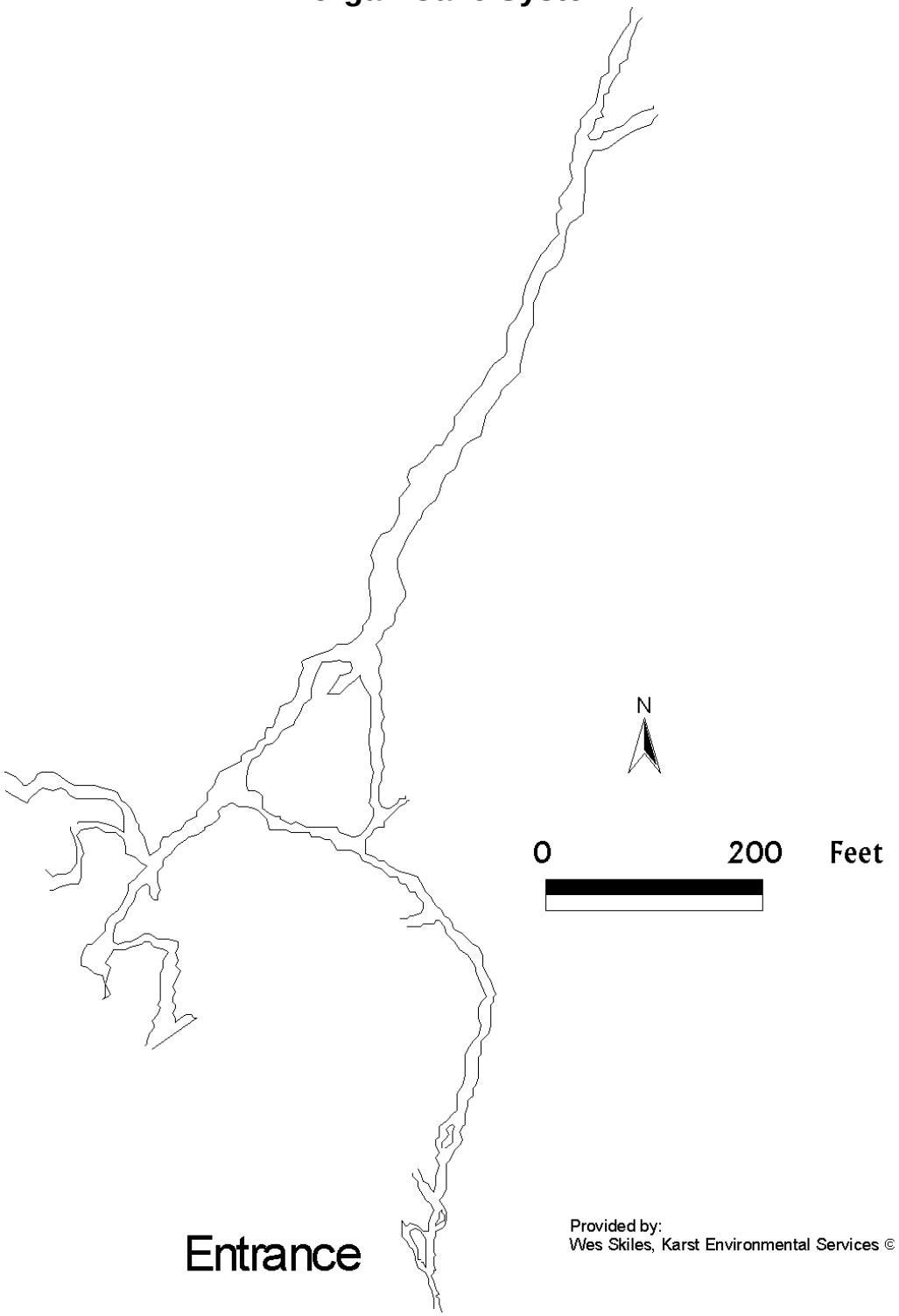
Morgan Cave System



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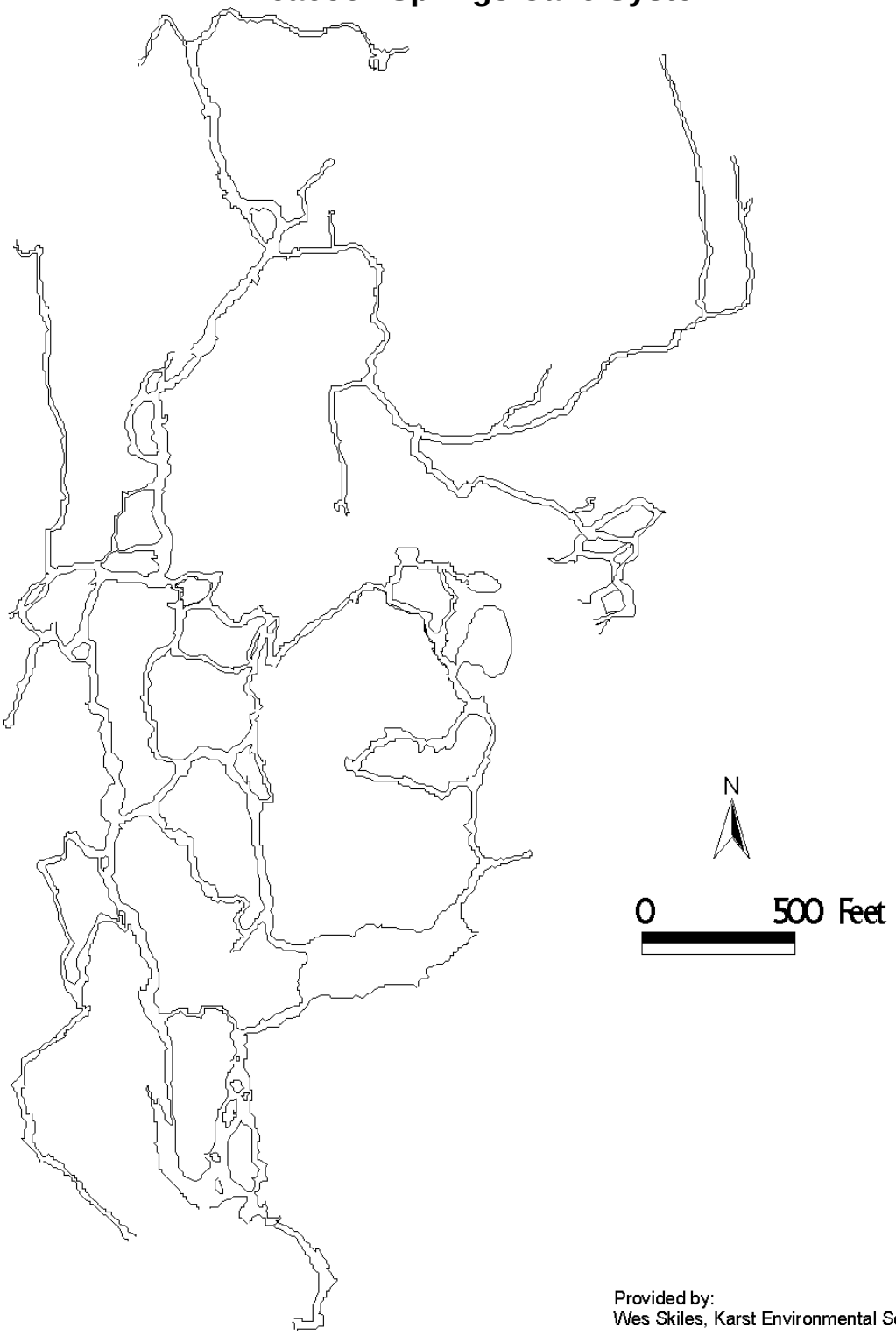
Peacock Springs Cave System



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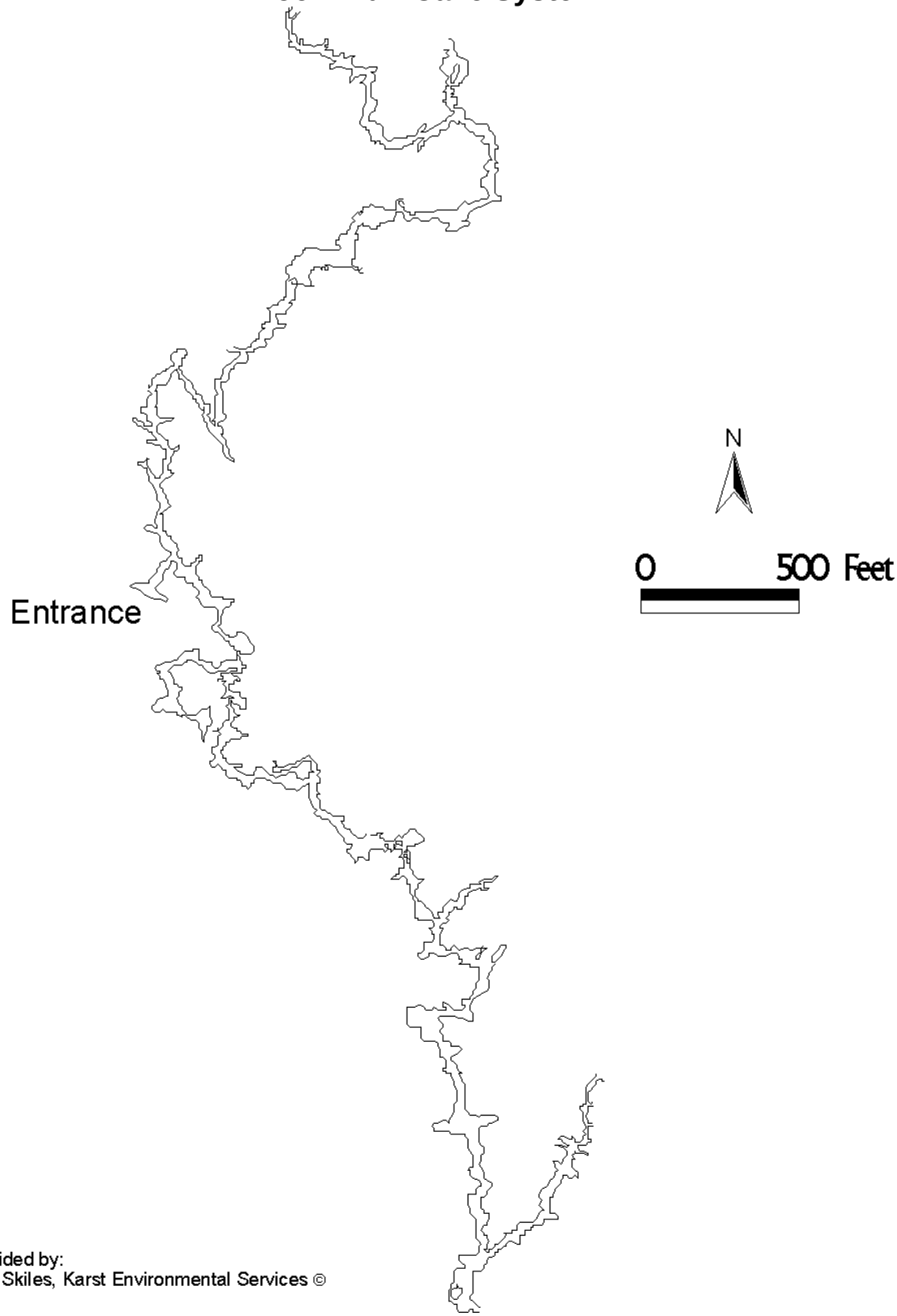
SWIM

Rock Bluff Cave System



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