



# Seminole County's Fertilizer Ordinance



# A Natural Choice



# Workbook

www.seminolecountyfl.gov/fertilizer Creating Beautiful Lawns & Protecting Our Waterways

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# My Seminole Yard Goals

Protect our \_\_\_\_\_\_.

How \_\_\_\_\_ can make a difference.

Determine your \_\_\_\_\_ program.

WHY IS WATER QUALITY IMPORTANT?

Large volumes of stormwater can harm our waterways

# THE NINE PRINCIPLES OF FLORIDA-FRIENDLY LANDSCAPING

| Right,<br>Right             | Choose low maintenance plants suited for your site conditions                               |
|-----------------------------|---|
| Efficiently                 | Irrigate only when your lawn and plants need water  |
| Appropriately               | Overutilization of fertilizers can be harmful to your yard and the environment              |
| Mulch                       | Mulching retains soil moisture and reduces weeds  |
| Recycle                     | Leave yard trimmings on-site to return nutrients to the soil and reduce waste               |
| Attract                     | Yard plants provide food, water and shelter for Florida's diverse wildlife                  |
| Control Yard<br>Responsibly | Unwise use of pesticides can harm people, pets, beneficial organisms and the environment    |
| Reduce Water                | Water running off your yard and paved surfaces can carry pollutants that harm water quality |
| Protect the                 | Waterfront property is very fragile and should be protected from pollution                  |
| Notes:                      |   |

# WATER MOVEMENT IN THE LANDSCAPE

True or False: All land is part of a watershed

True or False: What we do in a watershed will affect the nearest waterbody

| Do these increase or decrease in the | Natural Water Cycle | Urban Water Cycle |
|--------------------------------------|---------------------|-------------------|
| Evapotranspiration                   |                     |                   |
| Infiltration                         |                     |                   |
| Groundwater flow                     |                     |                   |
| Runoff                               |                     |                   |

Our soils have \_\_\_\_\_ levels of organic matter. Organic matter \_\_\_\_\_ water holding capacity and \_\_\_\_\_\_ nutrient holding capacity.

Which of the following can be washed into storm drains and canals during a rainstorm?

Trash

- 🗆 Fuel 🗆 Oil
- Pet waste
- Septic tanks
- □ Household chemicals □ Improperly applied fertilizer
  - □ Grass clippings

# **NON-POINT SOURCE POLLUTION**

Which of the following are common water pollutants in urban residential areas?

- Nitrogen
- □ Heavy metals

Glitter

Bacteria

🗆 Oil

- Phosphorus
- Bacteria
- Sediments
- Potassium

- Grass clippingsPesticides
- Nuclear waste



# NUTRIENT LOADING IN THE WEKIVA BASIN

48% of the nitrates in the Wekiva Basin have resulted from fertilizers. 54 % of those fertilizers came from residential landscapes. We can help fix this piece of the pie.

For more information see the Wekiwa Spring and Rock Springs Basin Management Action Plan at https://floridadep.gov/sites/default/files/Wekiwa%20and%20Rock%20Springs%20Final%20201

### **STORMWATER PONDS**

Wet retention ponds capture stormwater runoff from our neighborhoods. Suspended materials settle to the bottom and plants absorb nutrients. Stormwater ponds only remove \_\_\_\_\_% of nitrogen at best.



### Keep ponds working by:

- Repair eroded slopes by planting shoreline vegetation
- Clear or clean inflow/outflow structures
- Clean up trash and yard waste on individual properties
- Clean around storm drains



# HOW CAN WE HELP?

| 1. | <br> |
|----|------|
| 2. | <br> |
| 3. | <br> |

### Keep Water on Your Lawn

Redirect \_\_\_\_\_\_\_\_ so the runoff washes over vegetation, not the driveway or roads.

It costs \$3,500 to remove a pound of nitrogen from a stormwater pond, but \_\_\_\_\_ rain barrels can capture that one pound.

A rain garden is a landscape bed that soaks up rain water. A rain garden filters approximately \_\_\_\_% of metal pollutants and \_\_\_% of nitrogen from fertilizers, pet waste, and organic matter.

A \_\_\_\_\_ retains water and the \_\_\_\_\_ prevents outflow

The leaves and canopies of trees capture stormwater and increase the soil's water holding capacity.

Mulch holds onto soil \_\_\_\_\_\_ and reduces \_\_\_\_\_\_.

Pervious surfaces let some stormwater \_\_\_\_\_\_ into the ground rather than runoff.

# LAWN CARE

### Irrigation

What are the top two turf stressors?

- 1. \_\_\_\_\_ 2. \_\_\_\_\_

One of the most common mistakes homeowners make is overwatering their lawn. In general, no more than \_\_\_\_ to \_\_\_\_ inches of water should be applied per irrigation event. During the growing season, water your yard at least \_\_\_\_ time per week. During the cooler months when grass is not actively growing, water every \_\_\_\_ to \_\_\_\_ days.



Since 2009, Florida Statute 373.62 requires a functioning Rain \_\_\_\_\_ device.

A rain sensor will not allow the irrigation system to run if it has recently rained.





Microirrigation is a more efficient type of irrigation. You build a network of narrow \_\_\_\_\_ and small spray heads to deliver water at the base of the plants. Less water is lost to \_\_\_\_\_ and less \_\_\_\_\_ occurs.

True or False: Mature trees, palms, and shrubs require little to no supplemental irrigation (except during prolonged dry periods).



# **PLANT NUTRIENTS**

The nutrients needed by plants can be divided into two categories: macronutrients and micronutrients. Plant macronutrients are needed in the largest amounts; micronutrients are needed in the smallest amounts. It is important to remember that micronutrients, while not needed in large amounts, are just as important to plant health as macronutrients.

Plant nutrients are supplied naturally by the atmosphere, soil, or water. In the landscape, carbon, hydrogen, and oxygen are always supplied naturally. Other nutrients may be found in the soil, and occasionally in irrigation water. If a nutrient is not available naturally, then fertilizer can be added to keep plants healthy.

The two nutrients needed in the greatest quantity by turf are

\_\_\_\_\_ and \_\_\_\_\_.

\_\_\_\_\_ can contribute

to non-point source pollution.

# **MACRONUTRIENT FUNCTIONS**

\_\_\_\_\_ promotes plant growth and makes up part of the chlorophyll.

\_\_\_\_\_should only be applied if a soil test indicates deficiency. Promotes flowering and fruiting.

\_\_\_\_\_\_strengthens roots; increases disease resistance and cold tolerance. **Notes:** 

Nutrients found in the environment

Carbon (C) Hydrogen (H) Oxygen (O<sub>2</sub>)

Macronutrients

Nitrogen (N) Phosphorus (P) Potassium (K) Calcium (Ca) Magnesium (Mg) Sulfur (S)

Micronutrients Iron (Fe) Manganese (Mn) Boron (B) Copper (Cu) Molybdenum (Mo) Zinc (Zn)

## SOIL TESTING

Soil testing is the first step to creating a beautiful and healthy lawn, and it's easy! A soil test instruction and submission form is included in your workbook (Appendix A), or you can visit <u>http://soilslab.ifas.ufl.edu</u> to download more. Once your soil has been analyzed by the Soils Lab, you will receive your results via email. If you have questions about your results, you can call 407-665-5550 for assistance.

Soil test results give you information on:

1. Soil \_\_\_\_\_ and macronutrient content.

2. The Seminole County Fertilizer Ordinance requires a soil test before you can apply

This is the first step to creating a beautiful lawn! Find soil test forms and instructions at: http://soilslab.ifas.ufl.edu

3. Soil tests will not tell you how much \_\_\_\_\_\_ is in your soil because it is too mobile (it moves in and out of the soil), so that is why it is important to follow the UF/IFAS recommendations.



# SOIL PH



Soil pH is important in the landscape for determining which nutrients may be available to your turf and ornamentals. Most nutrients are available for St. Augustine grass when the soil pH is between 6.0 and 6.5.

# **NITROGEN FERTILIZERS**

Nitrogen is available from many different sources. The main categories of N to know are "quick release" and "slow release."

# Quick Release (also known as "water soluble" or "readily available")

These forms of N are available to the plant immediately, and they easily leach through the soil if applied incorrectly. Quick release products are not allowed at any time in Seminole County. The Seminole County fertilizer ordinance states that landscape fertilizers should contain at least 50% or more slow release nitrogen.

# Slow Release (also known as "controlled release" (CR), "water insoluble" (WIN), "other water insoluble nitrogen")

Slow release forms of N are released slowly over time by microbes, water, soil, or temperature. Since the nitrogen is released slowly to meet turf nutrient requirements, it likely will not leach; however, if applied incorrectly, it may become a stormwater runoff pollutant. Most slow release fertilizers contain some quick release forms of N as well as slow release. Seminole County requires that a fertilizer's total nitrogen is at least 50% or more Slow Release Nitrogen.

What are the advantages of slow release fertilizers?



Sulfur or poly-coated pellets extend availability of N to the plant longer than quick-release N forms.

Notes:

# SLOW RELEASE NITROGEN RATES

The recommended application rate for slow release fertilizer is:

|         | Recommended Rate                             |
|---------|--|
| Up to _ | _lb. (N) / 1,000 ft <sup>2</sup> /applicatio |

How many pounds of nitrogen your grass needs a year depends on the type of turf you have.

| Turf Species  | Pounds of N per year | Plan for this many<br>applications |
|---------------|----------------------|------------------------------------|
| St. Augustine |                      |                                    |
| Zoysia        |                      |                                    |
| Bahia         |                      |                                    |
| Notes:        |                      |                                    |
|               |                      |                                    |
|               |                      |                                    |
|               |                      |                                    |
|               |                      |                                    |
|               |                      |                                    |

# **PHOSPHORUS RULE**

While phosphorus is a macro-nutrient that plants require, Florida soils generally have sufficient amounts of phosphorus to supply plants' needs. Additional phosphorus in the landscape instead feeds the algae in our waterways. Choose fertilizers without any phosphorus.

The Seminole County fertilizer ordinance states that no P may be applied unless a soil test indicates a deficiency.

# **OTHER NUTRIENTS**

We know excess nitrogen and phosphorus are pollutants, but we have not observed other nutrients in excess harming our lakes.

\_\_\_\_\_ makes roots stronger and your grass more resilient. Apply it in times of stress such as in the fall to strengthen the roots through the winter.

\_\_\_\_\_\_ helps your grass stay green. Apply it in the summer so that your grass is green but does not grow faster.

\_\_\_\_\_ help build up organic matter.

Notes:

# **FERTILIZER TIMING**

Never apply fertilizers within \_\_\_\_\_\_ hours of a rain event! Rain can cause fertilizers to dissolve, leach downward through the soil or wash away down the storm drain.

During the rainy season, Seminole County has a restricted season on fertilizers with nitrogen and phosphorus from \_\_\_\_\_\_ to \_\_\_\_\_.

Shade in the restricted season.

| Jar | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | Oct | Nov | Dec |  |
|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|--|
|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|--|

If you want to fertilize your lawn, apply fertilizer when grass is growing, not when it is dormant. Grass is dormant in times of stress (winter or droughts).

Give turf a boost in \_\_\_\_\_.

Help it last through the winter in

| April    | 16-0-8 slow release nitrogen  |
|----------|-------------------------------|
| July     | Iron (Fe) (optional)          |
| October  | 15-0-15 slow release nitrogen |
| November | 0-0-15 (optional)             |

Draw in arrows on when to apply fertilizer to the turf growth cycle.



# FERTILIZER ANALYSIS

Have you ever wondered what the numbers on the fertilizer label mean?

# 16 - 0 - 8

# GUARANTEED ANALYSIS 16-0-8

| TOTAL NITROGEN (N)16.00%               |
|--|
| 16.00 % Urea Nitrogen (N)*             |
| SOLUBLE POTASH (K2O)8.00%              |
| SULFUR (S) Total3.5%                   |
| IRON (Fe) Total0.96%                   |
| MANGANESE (Mn) Total0.48%              |
| DERIVED FROM: Polymer Coated Sulfur,   |
| Coated Urea, Sulfate of Potash, Iron   |
| sulfate, Manganese sulfate.            |
| *8.00% Slowly Available Urea Nitrogen  |
| from Polymer Coated Sulfur Coated Urea |

The fertilizer label is the law! More information on the fertilizer label can be found at: http://edis.ifas.ufl.edu/ss170

If your local fertilizer ordinance prohibits the application of Phosphorus without a soil test, can you use this fertilizer analysis?

Yes No

Does this label show a 50% slow release nitrogen product? Circle the total percent nitrogen and slow release nitrogen percent.

# **F**ERTILIZER **C**ALCULATIONS

Determining how much fertilizer to apply is as important as determining which analysis to use.



First, look at the label is determine if it is a quick-release product.

Find the total percent nitrogen (TN) and slow release nitrogen percentages (SRN).

Divide the percent slow release by the total nitrogen. Is it 0.50 (half) or greater? Yes No

\_\_\_\_% SRN ÷ \_\_\_\_% TN = \_\_\_\_\_

If yes, you have a slow release product!

If no, you have a quick release product. You cannot use this fertilizer. Choose a slow release product.

For a slow release product, you can apply 1 pound of nitrogen per 1000 square feet of yard. How many pounds of fertilizer do you need to put down 1 lb of nitrogen?

Divide the total percent nitrogen into 100.

100÷ % TN = 🗳

Now we need to know how big your yard is.

### Notes:

This is how many pounds of fertilizer you need per 1000 square feet!

# YARD CALCULATIONS

Using the formula and the yard picture to calculate the square footage of the lawn.

Formula ft<sup>2</sup> = length x width See Appendix C for other formulas

As a point of reference, a parking space is approximately 100 square feet and half of a volleyball court is 1,000 square feet.

You can also use Google Maps!

\_\_\_\_\_x \_\_\_\_= \_\_\_\_ft²

Divide yard area by 1000

\_\_\_\_\_ ft<sup>2</sup> ÷ 1000 = \_\_\_\_\_

If your fertilizer analysis is 15-0-15, how much nitrogen would you apply to the lawn pictured?







### Or use our calculator! www.seminolecountyfl.gov/fertcalculator



### Notes:

## **RECLAIMED WATER**



Reclaimed water is a water-saving measure that reuses \_\_\_\_\_\_ water that is redirected from the water treatment plant back into the landscape. Reclaimed water can have several applications depending on how it has been processed. Most commonly, reclaimed water is used

for irrigation and is not safe to \_

Reclaimed water is delivered in \_\_\_\_\_\_

Reclaimed water has varying levels of nitrogen and phosphorus in it. Each wastewater facility has its own type of treatment plant and has seasonal water



demands, which causes fluctuations in nitrogen and phosphorus levels.

If you irrigate with reclaimed water your \_\_\_\_\_ needs are \_\_\_\_\_

Determine if you are satisfied with the quality of your turf and lessen the amount of fertilizer accordingly.



# **APPLYING FERTILIZER**

Take half of the pounds of fertilizer you need, place it in your spreader, and walk in vertical rows. When you run out of fertilizer, stop. Take the second half of the fertilizer and spread it in horizontal lines across the same space, walking faster or slower to use up the remaining fertilizer.



Keep fertilizer where it belongs! Use a \_\_\_\_\_\_ with your fertilizer spreader.

Seminole County has a \_\_\_\_\_ ft buffer around our waterways. Do not fertilize or leave grass clippings this close to the water.

Did you know fertilizer spreaders are meant for a 3 mph walking speed?





Notes:



# LANDSCAPE CHECKLIST

Below is a checklist of Florida Friendly Landscaping<sup>™</sup> practices that can help you maintain a healthy lawn while protecting our waterways.

- □ Calibrate spreader
- □ Install micro-irrigation system
- □ Calculate (measure) square footage of lawn of turf/landscape to be fertilized
- □ Let the grass clippings fall
- □ Leave a maintenance-free zone around water bodies. Do not fertilize within 15 feet of waterbodies.
- □ Fertilize based on a soil test (taken every other year).
- Do not apply phosphorus unless indicated by a soil test
- □ Use at least 50% or more slow released nitrogen
- Do not apply fertilizer if heavy rain is forecasted
- □ Use a shield on the fertilizer spreader to keep granules out of water bodies and off of the pavement.
- Blow or sweep all grass clipping off hard surfaces and back into the grass or compost pile
- □ Apply 1 pound of slow release nitrogen per 1,000 square feet to lawns when fertilizing
- □ After broadcasting the fertilizer, lightly water it in
- $\Box$  Calibrate your irrigation system to apply  $\frac{1}{2} \frac{3}{4}$ " of water at each watering
- □ Install a rain shut-off device for systems run by a time clock
- During the warm months set clock to water twice a week and during the winter just once a week (following local watering restrictions)
- □ Water early in the morning to reduce the time that the leaf surfaces stay moist

# Additional Resources

Tina McIntyre, Florida-Friendly Landscaping Seminole County

- Email: <u>kmcintyre02@seminolecountyfl.gov</u>
- Telephone: 407-665-5575
- UF IFAS Extension Seminole County Florida-Friendly Landscaping <u>http://www.seminolecountyfl.gov/fyn</u>

# UF/IFAS Extension Master Gardeners

- Email: <u>mastergardener@seminolecountyfl.gov</u>
- Telephone: 407-665-5550
- In Person: Check our website to learn more about our Master Gardener Clinic– <u>http://www.seminolecountyfl.gov/departments-services/leisure-services/extension-</u> <u>services/adult-resources-enrichment/urban-horticulture/</u>

## Websites

- Seminole County Fertilizer Ordinance <u>http://www.seminolecountyfl.gov/fertilizer</u>
- Seminole County Fertilizer Calculator <u>http://www.seminolecountyfl.gov/fertcalculator</u>
- UF/IFAS Extension Seminole County <u>http://www.seminolecountyfl.gov/departments-services/leisure-services/extension-services/</u>
- Seminole Education and Restoration Volunteers --<u>http://www.seminolecountyfl.gov/departments-services/public-works/watershed-management/serv-program/</u>
- Seminole County Water Atlas -- http://www.seminole.wateratlas.usf.edu/
- UF/IFAS Extension publications <u>http://edis.ifas.ufl.edu</u>
- UF/IFAS Extension Solutions for Your Life <u>http://solutionsforyourlife.ufl.edu</u>
- UF/IFAS Florida-Friendly Landscaping<sup>TM</sup> <u>http://fyn.ifas.ufl.edu</u>
- Florida-Friendly Landscaping<sup>™</sup> <u>http://floridayards.org</u>
- St. Johns River Water Management District <u>http://www.sjrwmd.com/</u>

# LOCALLY AVAILABLE FERTILIZER

Below is a sample of slow-release nitrogen fertilizers and summertime blend fertilizers available at most mainstream retailers in Seminole County or available for purchase online.

| Name  | Formulation                           | SRN %   |
|---|---------------------------------------|---------|
| Sta-Green Lawn Fertilizer Plus 2% Iron            | 29-0-5                                | 50% SRN |
| Scotts Turf Builder Fall Lawn Fertilizer          | 32-0-10                               | 50% SRN |
| Vigoro Lawn Fertilizer                            | 29-0-4                                | 50% SRN |
| Sunniland Professional Turf Fertilizer            | 24-0-11                               | 50% SRN |
| Nutrite 65% Methydure & SOP                       | 13-0-20 (other formulas<br>available) | 65% SRN |
| Ringer Lawn Restore II Fertilizer                 | 10-0-6                                | 75% SRN |
| CoRoN 28-0-0 SRN Liquid Fertilizer                | 28-0-0                                | 70% SRN |
| Greenview Fairway Formula Lawn<br>Fertilizer      | 27-0-5                                | 70% SRN |
| Safer Brand 9333 Ringer Lawn Fertilizer           | 10-0-6                                | 75% SRN |
| Nutrite ISODURE                                   | 31-0-0 (other formulas<br>available)  | 90% SRN |
| Summertime Blends                                 |                                       |         |
| Sunniland Super Iron Plus                         | 0-0-0                                 |         |
| liquid Iron                                       | 0-0-0                                 |         |
| MegaMend Natural Minerals                         | 0-0-1.3                               |         |
| Scott's Lawn Response Lawn Nutrient<br>Supplement | 0-0-4                                 |         |

# APPENDIX A: FERTILIZER CALCULATION WORKSHEET

Use this worksheet to calculate how much fertilizer you will need for your lawn.

**Step 1:** Calculate how many square feet of turf needs to be fertilized (see Appendix C for shapes other than rectangles and squares)



**Step 2:** Determine the percentage of N (%) in your fertilizer.

What is your fertilizer analysis?\_\_\_\_-

The first number of your fertilizer analysis = the percentage of N in your fertilizer: \_\_\_\_\_%

Step 3: Determine pounds of N needed.

a. Find the square feet of your lawn in the left column of the table below.

b. Find the percentage of N in your fertilizer on the top row.

How many pounds of fertilizer are needed/1,000ft<sup>2</sup> to apply 1 pound of N/1,000ft<sup>2</sup>? \_\_\_\_\_lbs.

|                       | 6% N      | 10% N   | 12% N     | 15% N    | 16% N     | 23% N     | 27% N     |
|-----------------------|-----------|---------|-----------|----------|-----------|-----------|-----------|
| 1,000 ft <sup>2</sup> | 16.5 lbs. | 10 lbs. | 8.25 lbs. | 6.5 lbs. | 6.25 lbs. | 4.25 lbs. | 3.75 lbs. |
| 1,200 ft <sup>2</sup> | 20        | 12      | 10        | 8        | 7.5       | 5.25      | 4.5       |
| 1,500 ft <sup>2</sup> | 25        | 15      | 12.5      | 10       | 9.25      | 6.5       | 5.5       |
| 2,000 ft <sup>2</sup> | 33.25     | 20      | 16.5      | 13.25    | 12.5      | 8.75      | 7.5       |
| 2,500 ft <sup>2</sup> | 41.5      | 25      | 20.75     | 16.5     | 15.5      | 10.75     | 9.25      |
| 3,000 ft <sup>2</sup> | 50        | 30      | 25        | 20       | 18.75     | 13        | 11        |
| 3,500 ft <sup>2</sup> | 58.25     | 35      | 29        | 23.25    | 21.75     | 15.25     | 13        |
| 4,000 ft <sup>2</sup> | 66.5      | 40      | 33.25     | 26.5     | 25        | 17.5      | 14.75     |
| 4,500 ft <sup>2</sup> | 75        | 45      | 37.5      | 30       | 28        | 19.5      | 16.5      |
| 5,000 ft <sup>2</sup> | 83.25     | 50      | 41.5      | 33.25    | 31.25     | 21.75     | 18.5      |

# APPENDIX B

| Time of year             | Homes with odd<br>numbered<br>or no addresses | Homes with even<br>numbered addresses | Nonresidential properties |  |
|--------------------------|---|---------------------------------------|---------------------------|--|
| Daylight saving time     | Wednesday/Saturday                            | Thursday/Sunday                       | Tuesday/Friday            |  |
| Eastern Standard<br>Time | Saturday                                      | Sunday                                | Tuesday                   |  |

- Daylight saving time: Second Sunday in March until the first Sunday in November
- Eastern Standard Time: First Sunday in November until the second Sunday in March
- An odd numbered address is one that ends in 1, 3, 5, 7 or 9.
- An even numbered address is one that ends in 0, 2, 4, 6 or 8.
- Water only when needed and not between 10 a.m. and 4 p.m.
- Water for no more than one hour per zone.
- Restrictions apply to private wells and pumps, ground or surface water and water from public and private utilities.
- Some exceptions apply.

http://www.sjrwmd.com/wateringrestrictions/

# APPENDIX C

Square foot calculations



Rectangle: Length x width = square feet 150 x 45 = 6,750 ft<sup>2</sup>





# ACKNOWLEDGEMENTS

# Tina McIntyre, Florida-Friendly Landscaping Agent

Tina works with homeowners, community groups, landscapers and new developers. Contact her by email at <u>k.mcintyre@ufl.edu</u> or by telephone at 407-665-5575

# **Terrence Fullerton, Fertilizer Educator**

Terrence specializes in soils and fertilizers, works with residents, Home-Owners Associations, nurseries and retail stores. You can reach him at <u>tfullerton@seminolecountyfl.gov</u> or call 407-665-5560 (ask for Terrence)

# Kaydie McCormick, Residential Horticulture

Kaydie trains UF/IFAS Extension Master Gardeners and provides landscape and garden educational programs to homeowners. Kaydie can be contacted at <u>kmccormick@ufl.edu</u> or by telephone at 407-665-5558.

For gardening questions, contact a **Master Gardener** at <u>mastergardener@seminolecountyfl.gov</u> or call 407-665-5550.

# Hannah Wooten, Sustainable Agriculture and Food Systems

Hannah works with farmers and landscapers to provide economically and environmentally sustainable solutions. She can be reached at <u>hwooten@ufl.edu</u> or 407-665-5554.

# Elizabeth Stephens, Seminole Education, Restoration & Volunteer (SERV) Program

Elizabeth coordinates SERV volunteers to educate residents on water quality issues and restore local waterways. She can be reached at <a href="mailto:serv@seminolecountyfl.gov">serv@seminolecountyfl.gov</a> .

Our thanks to UF/IFAS Extension Brevard County and The Brevard Yard resources.

