

# Longleaf Pine Ecosystem

Critical Natural Lands

Gilchrist, Hamilton, Marion and Volusia Counties

<i>Year Added to Priority List</i>	1993
<i>Project Acres</i>	23,946
<i>Acquired Acres</i>	14,571
<i>Cost of Acquired Acres</i>	\$35,405,280
<i>Remaining Project Acres</i>	9,375
<i>2023 Assessed Value of Remaining Acres</i>	\$87,315,004

## Purpose for State Acquisition

The purpose of the Longleaf Pine Ecosystem project is to conserve the largest and highest quality fragments of old-growth longleaf pine sandhills, which is one of Florida's most distinctive and endangered forest types. State acquisition will help to ensure the survival of numerous imperiled plant and animal species such as the red-cockaded woodpecker and provide the public an opportunity to experience the original and increasingly rare Florida sandhill community.

## General Description

The original Longleaf Pine Ecosystem project sites (Ross Prairie Sandhill, Ross Prairie Addition, Bell Ridge Sandhill, Blue Spring Longleaf and Deland Ridge) are some of the highest quality longleaf pine sandhills in Florida. The project will protect a multitude of imperiled species. Archaeological sites are known to occur in the Ross Prairie tract. These sites are vulnerable to logging and fire suppression as well as development.

## FNAI Element Occurrence Summary

<b><u>FNAI Elements</u></b>	<b><u>Score</u></b>
Florida scrub-jay	G1G2/S1S2
Red-cockaded woodpecker	G3/S2
Eastern indigo snake	G3/S2?
Gopher tortoise	G3/S3
Florida mouse	G3/S3
Florida black bear	G5T4/S4
Orange Lake cave crayfish	G1/S1
<i>longspurred mint</i>	G2/S2
<i>sand butterfly pea</i>	G2Q/S2
Equal-clawed gopher tortoise hister beetle	G2/S2
Gopher tortoise burrow fly	G2/S2S3
Southern hognose snake	G2/S2S3

## Public Use

The project is suitable for state parks, state forests and wildlife management areas, with opportunities for hunting, hiking, horseback riding, camping and nature appreciation. Acquisition would also help complete



the Florida National Scenic Trail, a statewide non-motorized trail that crosses several Florida Forever project sites.

### Acquisition Planning

#### **1988**

On December 15, 1988, Florida Audubon Society received Caraway Lake Sanctuary (15 acres) as a donation, all of which would be in the project boundary when it was created.

#### **1990**

On November 15, 1990, Florida Audubon Society received a donation of three parcels (49.3 acres) to expand Caraway Lake Sanctuary, all of which would be in the project boundary when it was created.

#### **1993**

On July 23, 1993, Blue Spring Longleaf was added to the project boundary. Deland Ridge (35 acres) was also added to the project boundary.

On November 19, 1993, the Land Acquisition Advisory Council approved the addition of 320 acres to the Ross Prairie Sandhill site.

#### **1998**

In 1998, Florida Audubon Society acquired Clifton Sanctuary (41 acres), of which approximately 10.59 acres are within the project boundary.

#### **1999**

On July 29, 1999, the Land Acquisition and Management Advisory Council added the 3,040-acre Ross Prairie Addition project to the project boundary.

On December 9, 1999, the Land Acquisition and Management Advisory Council approved the addition of the Bell Ridge project to the project boundary.

#### **2003**

On May 29, 2003, the Florida Fish and Wildlife Conservation Commission established the On Top of the World Development of Regional Impact Conservation Area (260.2 acres), of which approximately 207 acres are within the project boundary.

#### **2010**

On August 13, 2010, the Acquisition and Restoration Council approved a 3,612-acre reduction to the project boundary due to residential/commercial/infrastructure disturbances.

#### **2011**

On December 9, 2011, the Acquisition and Restoration Council placed the project in the Critical Natural Lands category.

#### **2012**

On July 3, 2012, the BOT acquired 5.16 acres within the Ross Prairie site for \$8,000.

#### **2013**

On April 19, 2013, the Acquisition and Restoration Council approved adding the 986-acre Ellaville Sandhill Tract to the project boundary, bringing the total project acreage to 22,299.





## **2021**

On April 9, 2021, Acquisition and Restoration Council members approved adding the 541-acre Big Pine Preserve project, located in Marion County, to the project boundary.

## **2023**

DEP acquired, in fee, 470 acres in Marion County from Swan-Smilely Preserve, LLC.

### Coordination

The Nature Conservancy, Florida Department of Transportation, Trust for Public Land and Florida Audubon Society are acquisition partners on the project.

### Management Policy Statement

The primary management goals of the Longleaf Pine Ecosystem project are to conserve and protect environmentally-unique lands that contain native, relatively-unaltered flora and fauna representing a natural area unique to a region of the state or a larger geographic area; conserve and protect significant habitat for native species or endangered and threatened species; conserve, protect, manage or restore important ecosystems, landscapes and forests; and enhance or protect significant surface water, coastal, recreational, timber, fish or wildlife resources which local or state regulator programs cannot adequately protect.

The primary objective of management of the Bell Ridge Sandhills site is to protect and restore the threatened sandhill natural community. A secondary objective is to provide resource-based recreation compatible with protection of the natural and cultural resource values of the project. The site will be managed under the multiple-use concept; management activities will be directed first toward conservation of resources and second toward integrating carefully controlled consumptive uses.

Managers will control access to the site; thoroughly inventory the resources; restore hydrological disturbances; conduct prescribed burning of fire-dependent communities to mimic natural lightning-season fires, using existing fire lines, natural firebreaks, existing roads or foam lines for control; strictly limit timber harvesting in mature stands; and monitor management activities to ensure that they are conserving resources. Managers will limit the number and size of recreation facilities, ensure that they avoid the most sensitive resources and site them in already disturbed areas when possible. The project includes over 3,000 acres of relatively undisturbed land adjacent to an existing area of conservation lands. It consequently appears to have the size and location to achieve its primary and secondary objective.

The Florida Forest Service proposes to manage the project under a multiple-use management system consistent with the state forest system, and in a manner designed to accomplish the acquisition goals and measures for the project as approved by the Acquisition and Restoration Council. These goals and measures are hereby incorporated by reference. The primary land management goal for the Florida Forest Service is to restore, maintain and protect all native ecosystems in perpetuity; to integrate compatible human use; and to ensure long-term viability of populations and species considered rare. This ecosystem approach will guide the Florida Forest Service management activities on the project.





## Manager(s)

The Florida Forest Service will manage the Blue Spring Longleaf, Bell Ridge and Ross Prairie sites; this excludes the sites that are part of the Marjorie Harris Carr Cross Florida Greenway and are under an approved management lease to the Division of Recreation and Parks. The Florida Forest Service will manage Bell Ridge under a multiple-use management system.

## Management Prospectus

### **Qualifications for State Designation**

The quality, size and diversity of the pine forests on the Blue Spring Longleaf and Ross Prairie sites make them suitable for state forests. The major community represented on the Bell Ridge site is sandhill. The site is also desirable for use and management as a state forest due to its size and diversity. Management by the Florida Forest Service as a state forest is contingent upon the state acquiring fee simple title to the entire project and obtaining some level of legal public access to the site, which is likely since the eastern and northern property boundaries are county-maintained graded roads.

### **Conditions Affecting Intensity of Management**

#### **Blue Spring Longleaf Tract**

There are no known major disturbances that will require significant attention, so management intensity is expected to be typical for a state forest. However, on Ross Prairie, the construction of an extension of the Florida Turnpike may hinder fire management activities and public access to the state forest.

#### **Bell Ridge**

There are portions of the parcel that have been disturbed and will require restoration efforts. There is at least one linear facility that bisects the parcel, which will be an area of management concern for monitoring unauthorized uses and introduction of invasive exotic species. The sandhill community is considered imperiled and may be sensitive to certain uses and their intensity. As such, any additional facilities other than those that already exist on the project are considered incompatible with the project.

#### **Residential Developments**

Adjacent residential developments pose management concerns associated with prescribed burning, public use, unauthorized uses and other natural resource management activities. Areas that have refuse and debris should be removed prior to closing on the core parcel. There are no other known major disturbances that require attention. The initial level of management intensity and related management cost is expected to be moderately high to establish the project as a state forest. Some existing roads will be used as multi-use trails for hiking, horseback riding and off-road biking.

### **Management Implementation, Public Access, Site Security and Protection of Infrastructure**

The Blue Spring Longleaf tract and part of the Ross Prairie Sandhills tract have been acquired. The Florida Forest Service is now providing public access to these tracts for low-intensity, non-facilities-related outdoor recreation. Management on the Blue Spring Longleaf tract will concentrate on maintaining the existing open conditions.

On all three tracts, the Florida Forest Service will provide public access. Long-range plans will address restoring disturbed areas, as well as protecting threatened and endangered species. An all-season burning





program will use existing roads, black lines, foam lines and natural breaks to contain fires. Timber management will mostly involve improvement thinning and regeneration harvests. Plantations will be thinned and reforested where appropriate. Stands will not have a targeted rotation age. Infrastructure will primarily be in disturbed areas and will be the minimum required for management and public access. The Florida Forest Service will promote environmental education.

There are many roads throughout the property, and a road plan will need to be developed to determine those to be used for vehicular use by the public, those that are required for administrative use, and unnecessary access points and roads that should be closed. An inventory of the site's natural resources and threatened and endangered flora and fauna will eventually be conducted to provide a basis for formulation of a management plan. Prior to collection of necessary resource information, management proposals for the project can only be conceptual in nature. Long-range plans for the property will generally be directed toward the restoration of disturbed areas and maintenance of natural communities. To the greatest extent practical, disturbed sites will be restored to conditions that would be expected to occur in naturally functioning ecosystems. Any existing pine plantations will be thinned to achieve a more natural appearance. Off-site species will eventually be replaced with species that would be expected to occur naturally on those specific sites.

Whenever possible, existing roads, black lines, foam lines and natural breaks will be utilized to contain and control prescribed and natural fires. Timber management activities will primarily consist of improvement of thinning and regeneration harvests aimed at maintaining and perpetuating forest ecosystems. Stands will not have a targeted rotation age but will be managed to maintain a broad diversity of age classes ranging from young stands to areas with old growth characteristics. This will provide habitat for the full spectrum of species that would be found in the natural environment and enhance and maintain biodiversity. The resource inventory will be used to identify sensitive areas that need special attention, protection or management, and to locate areas that are appropriate for any recreational or administrative facilities. Recreation and administrative infrastructure development will primarily in already-disturbed areas and will be the absolute minimum required to allow public access for the uses mentioned above, to provide facilities to accommodate public use, and to administer and manage the property. It is anticipated that interpretative and user services recreational facilities will be developed and the use of low impact, rustic facilities will be stressed. High impact, organized recreation areas are not planned because of possible adverse effects on the natural environment. Unnecessary roads, fire lines and hydrological disturbances will be abandoned and/or restored to the greatest extent practical.

### **Revenue-generating Potential**

The Florida Forest Service will sell timber as needed to improve or maintain desirable ecosystem conditions. These sales will provide a variable source of revenue, but the revenue-generating potential for these tracts is expected to be low. It is anticipated that management funding will come from the Conservation and Recreational Lands Trust Fund or its successor.

### **Cooperators in Management Activities**

The Florida Forest Service will cooperate with other state agencies, local government entities and other appropriate groups in management of the property.





Management Cost Summary

<u>FFS (Bell Ridge)</u>	<u>1995/96</u>	<u>1996/97</u>
Source of Funds	CARL	CARL
Salary	\$31,080	\$41,013
OPS	\$0	\$0
Expense	\$25,505	\$11,302
OCO	\$40,626	\$0
FCO	\$0	\$0
TOTAL	\$97,211	\$52,315

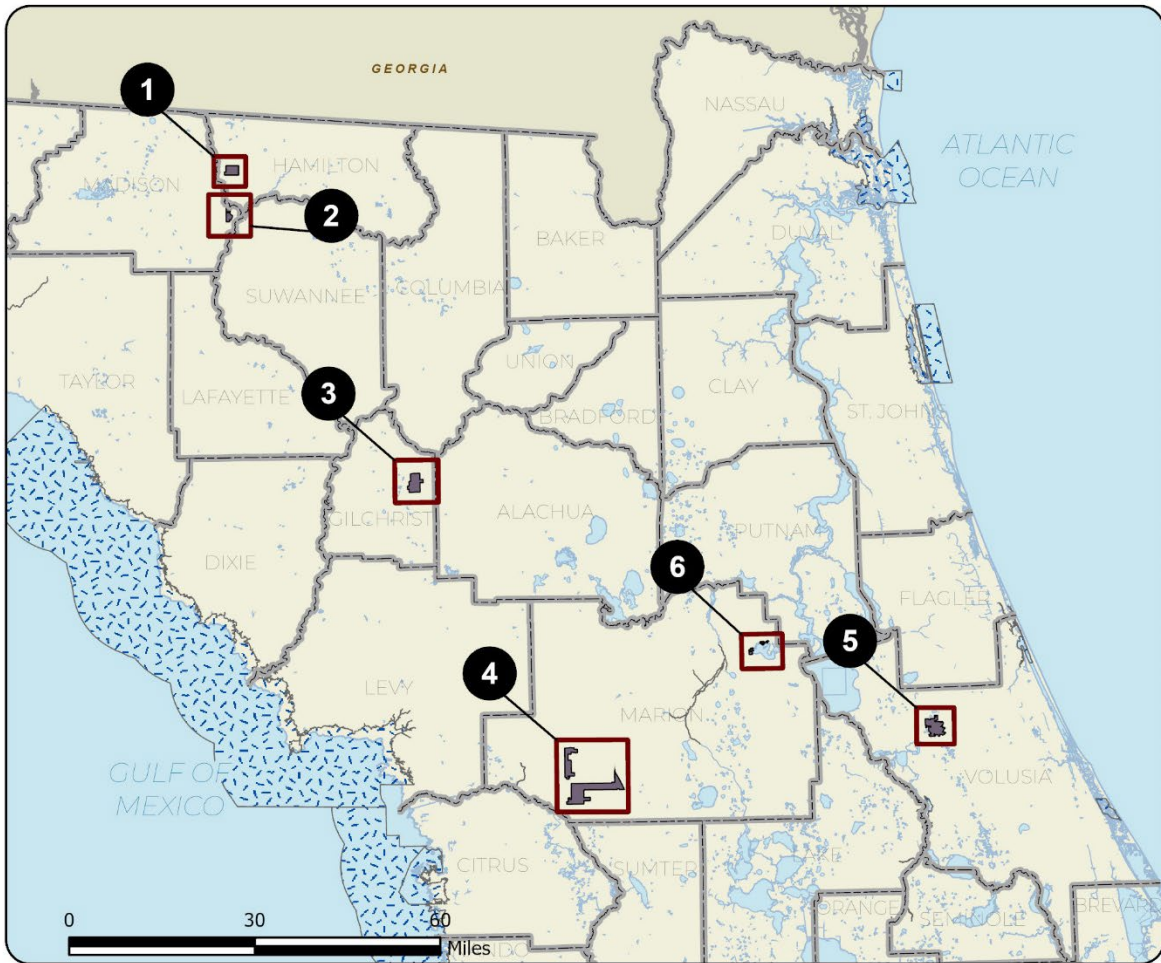
Source: Management Prospectus as originally submitted

Management Cost Summary

<u>FFS (Deland Ridge)</u>	<u>Startup</u>	<u>Recurring</u>
Source of Funds	CARL	CARL
Salary	\$0	\$0
OPS	\$0	\$0
Expense	\$7,000	\$5,000
OCO	\$0	\$0
FCO	\$0	\$0
TOTAL	\$7,000	\$5,000

Source: Management Prospectus as originally submitted





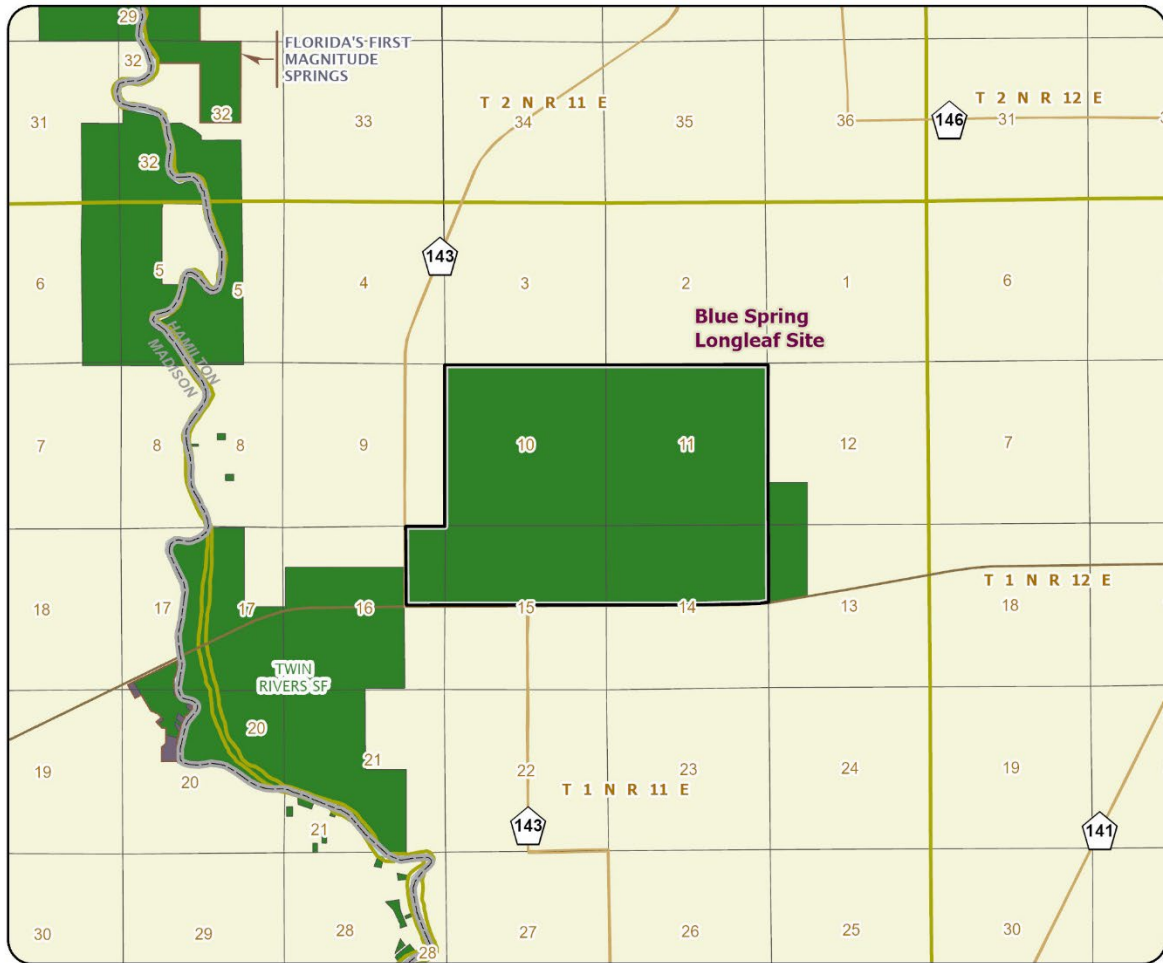
### LONGLEAF PINE ECOSYSTEM: OVERVIEW

#### GILCHRIST, HAMILTON, MADISON, MARION AND VOLUSIA COUNTIES

- Map 1 Blue Spring Longleaf Site
- Map 2 Ellaville Sandhill Site
- Map 3 Bell Ridge Sandhills Site
- Map 4 Ross Prairie Addition Site
- Map 4 Ross Prairie Sandhill Site
- Map 5 DeLand Ridge Sandhill Site
- Map 6 Big Pine Preserve Site





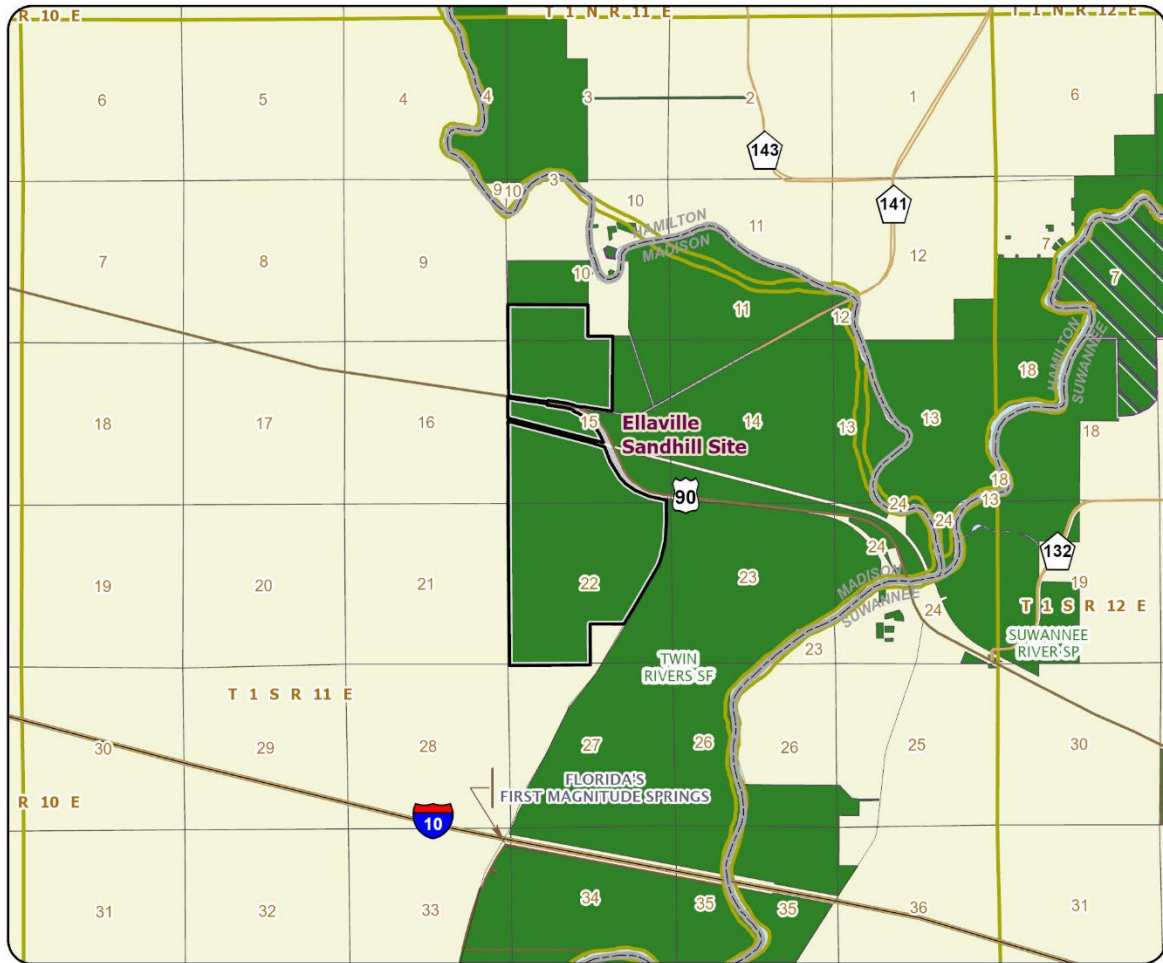


LONGLEAF PINE ECOSYSTEM: MAP 1

HAMILTON COUNTY



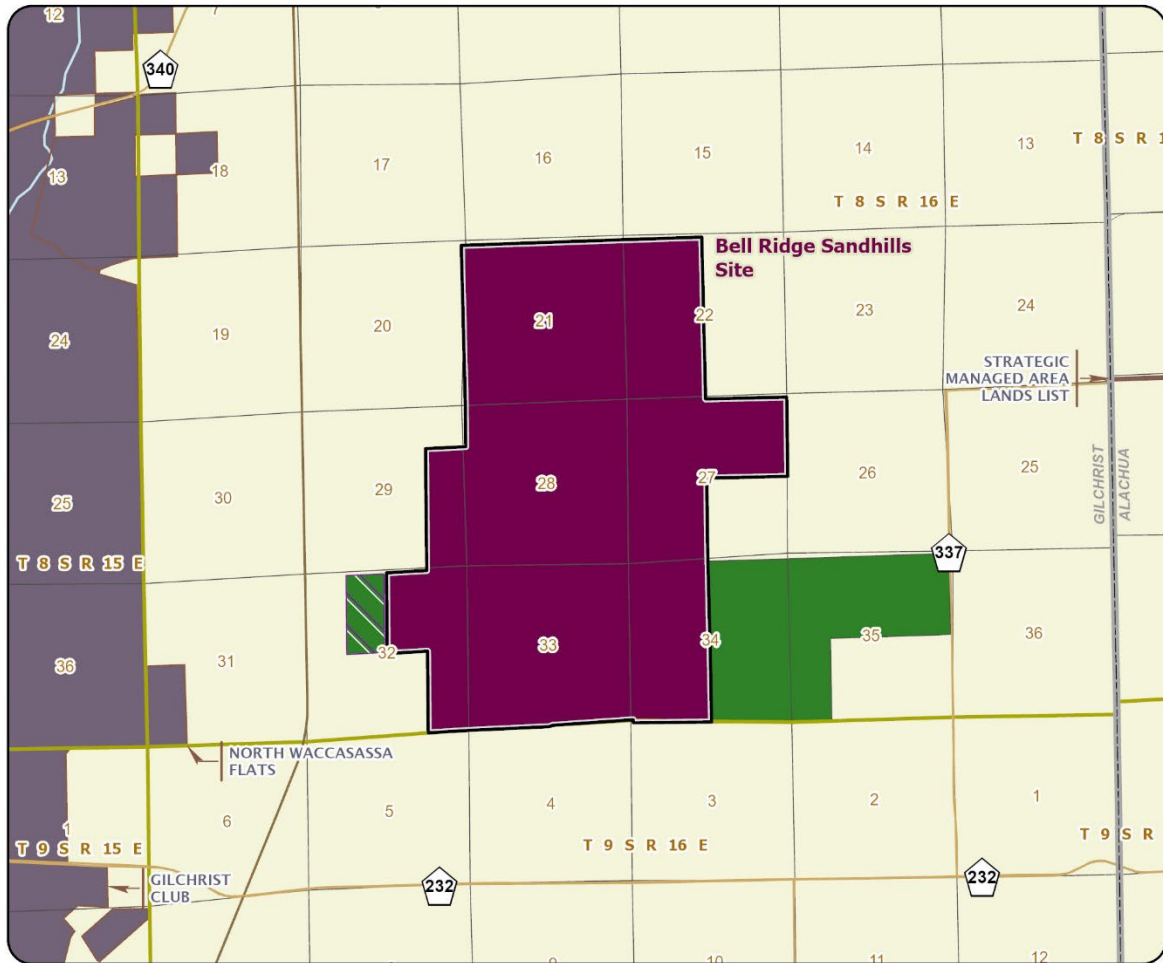




**LONGLEAF PINE ECOSYSTEM: MAP 2**

**MADISON COUNTY**

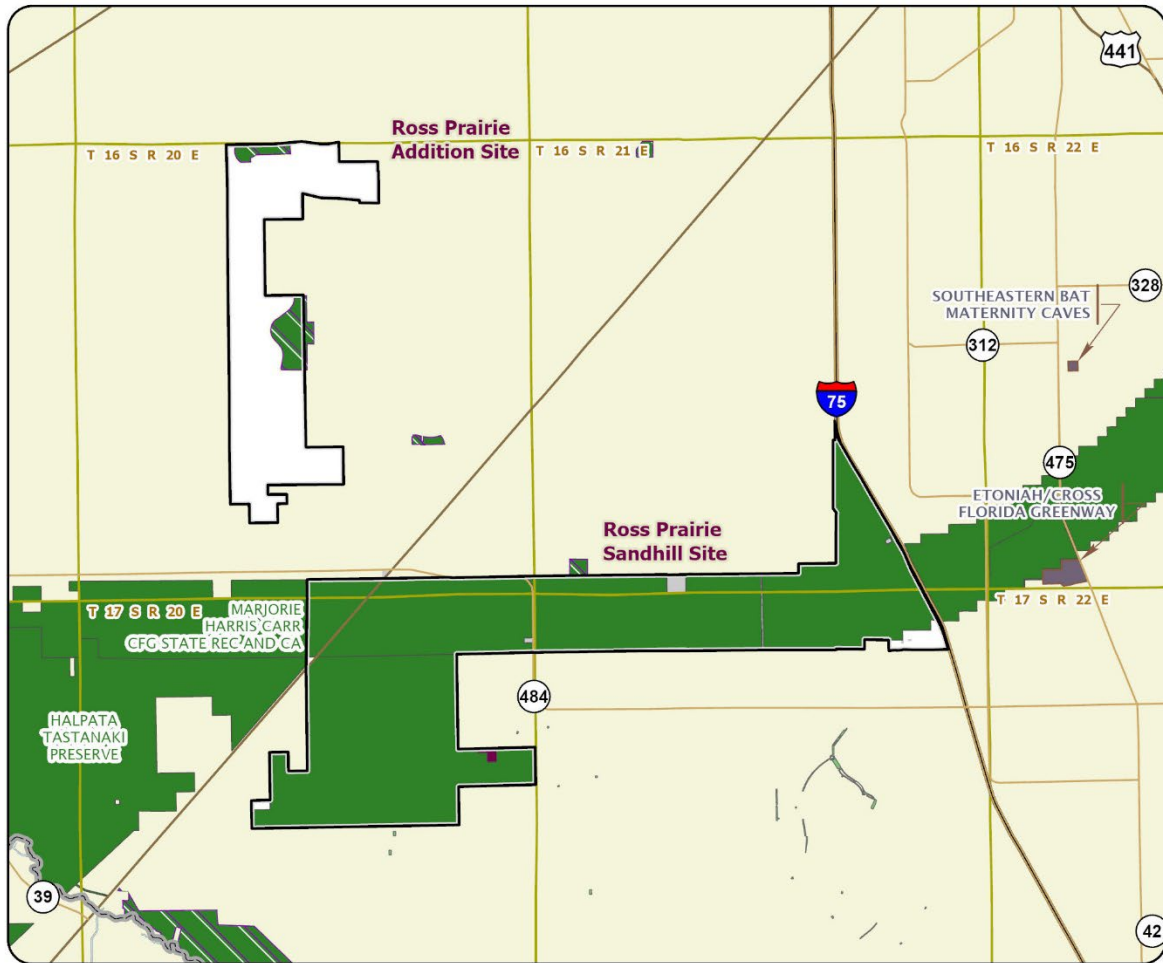




**LONGLEAF PINE ECOSYSTEM: MAP 3**

**GILCHRIST COUNTY**

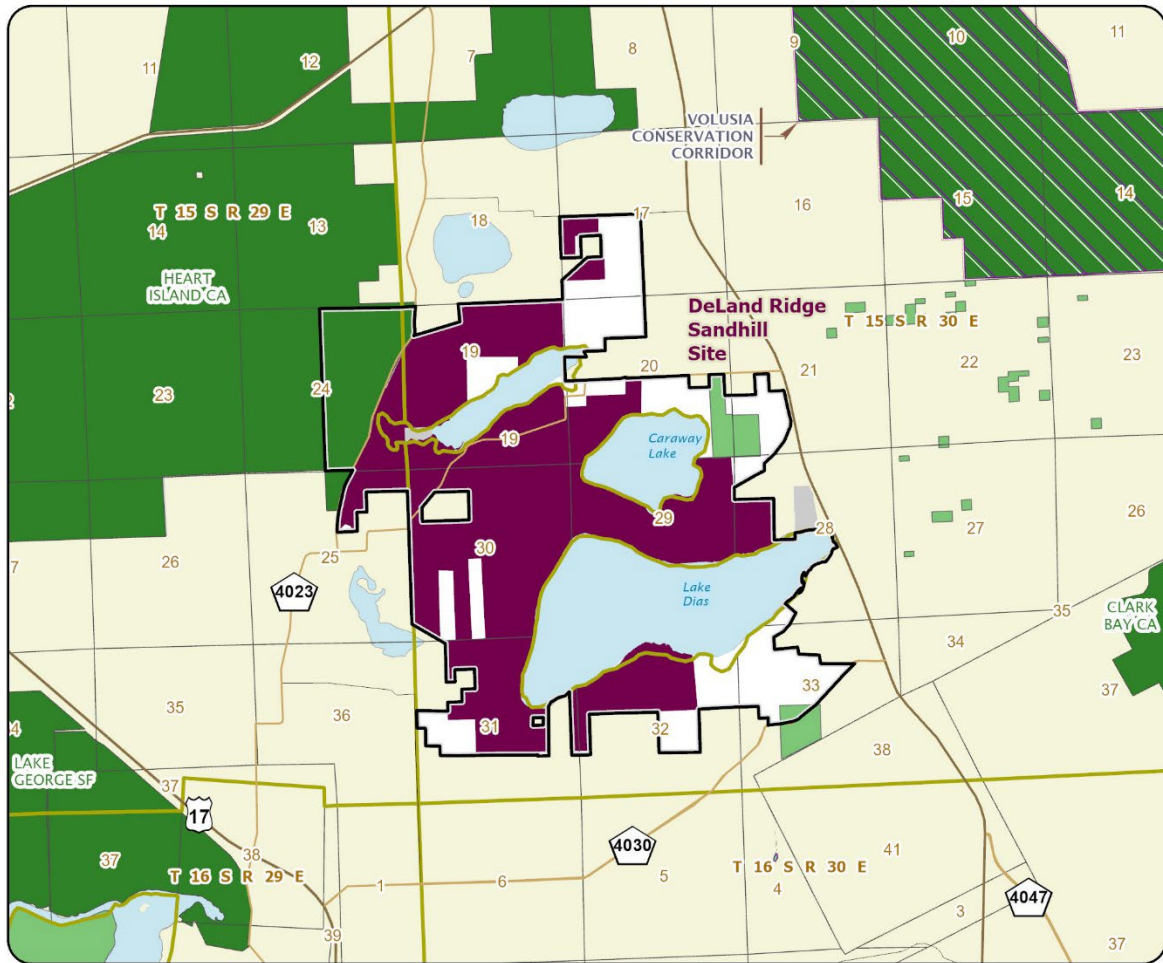




LONGLEAF PINE ECOSYSTEM: MAP 4

MARION COUNTY





**LONGLEAF PINE ECOSYSTEM: MAP 5**

**VOLUSIA COUNTY**







**LONGLEAF PINE ECOSYSTEM: MAP 6**

**MARION COUNTY**

