

Appendix 3

Environmental Characteristics

Florida Fish and Wildlife Data

Florida Natural Area Inventory



LAKE COUNTY
FLORIDA



**Florida Fish
and Wildlife
Conservation
Commission**

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**Fish and Wildlife
Research Institute
Information Science
And Management**

(850) 488-0558
(850) 410-5269 FAX

*Managing fish and wildlife
resources for their long
term well-being and the
benefit of people.*

620 South Meridian Street
Tallahassee, Florida
32399-1600
Voice: (850) 488-4676

Hearing/speech impaired:
(800) 955-8771 (T)
(800) 955-8770 (V)

MyFWC.com

March 4, 2009

Ms. Lauren Brothers
Lake County
Public Lands Management
31150 Industry Drive
Tavares, FL 32778

Dear Ms. Brothers:

This letter is in response to your request for information regarding the occurrence of Strategic Habitat Conservation Areas (SHCA's) on properties located on the CR 561A corridor in Lake County, Florida. The Florida Fish and Wildlife Conservation Commission's database indicates that SHCA's for the sand skink occur within or adjacent to the property indicated by the map you provided. Maps indicating the location of SHCA's, species occurrence, and 2003 landcover are provided.

Please note, as of August 17th, 2007, the Strategic Habitat Conservation Areas and the Biodiversity Hotspots data sets used for this request are from the 2007 Endries et al. report "Wildlife Habitat Conservation Needs in Florida: Updated Recommendations for Strategic Habitat Conservation Areas".

If you have any questions or further requests, please contact our Records Technician at (850) 488-0588 or gisrequests@myfwc.com

Sincerely,

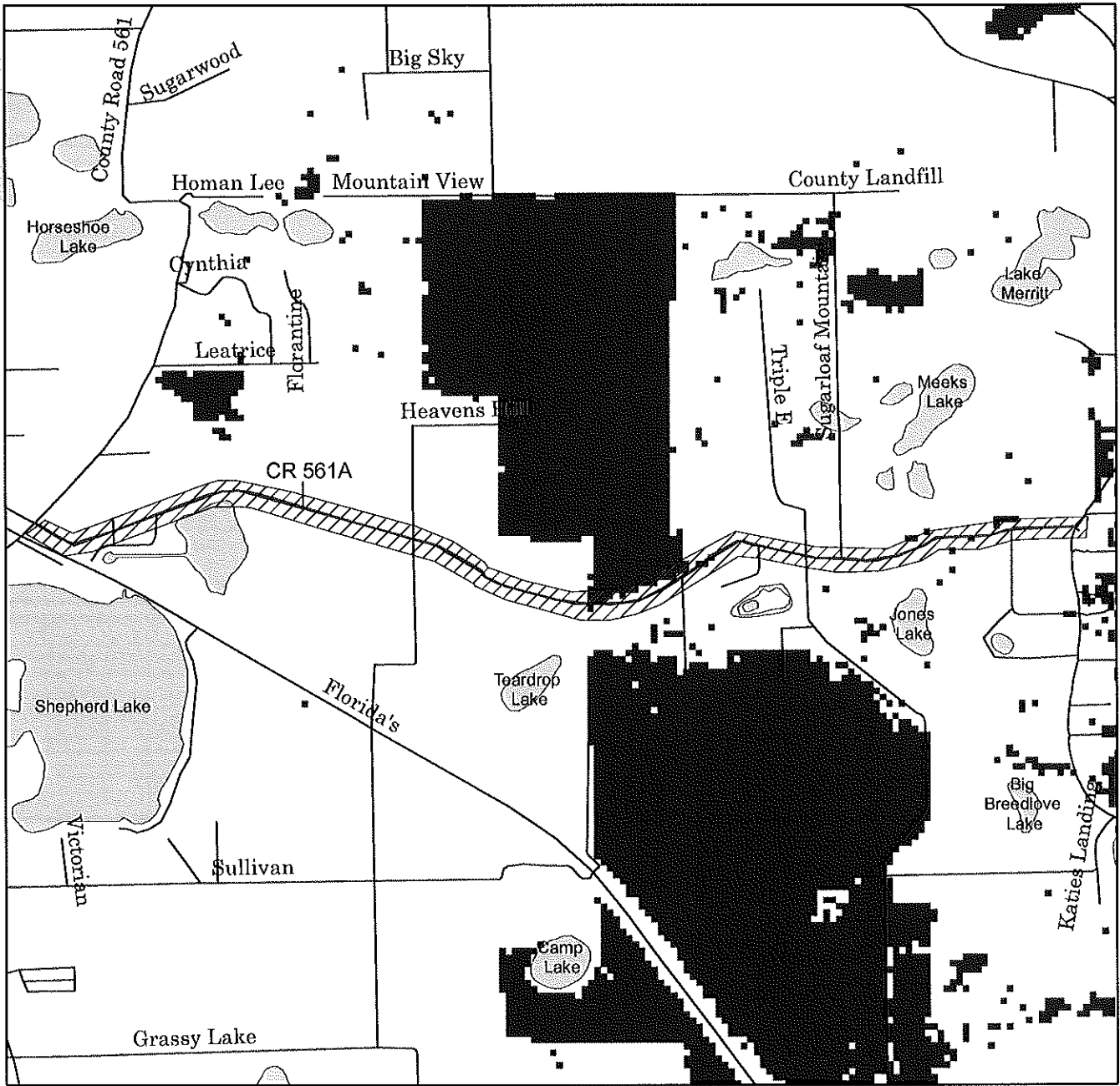
A handwritten signature in cursive script that reads "Jan Stearns".




Jan Stearns
Staff Assistant

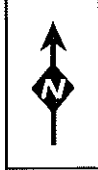
js
2008_5162a
Enclosures

Strategic Habitat Conservation Areas

County Road 561-A - Lake County

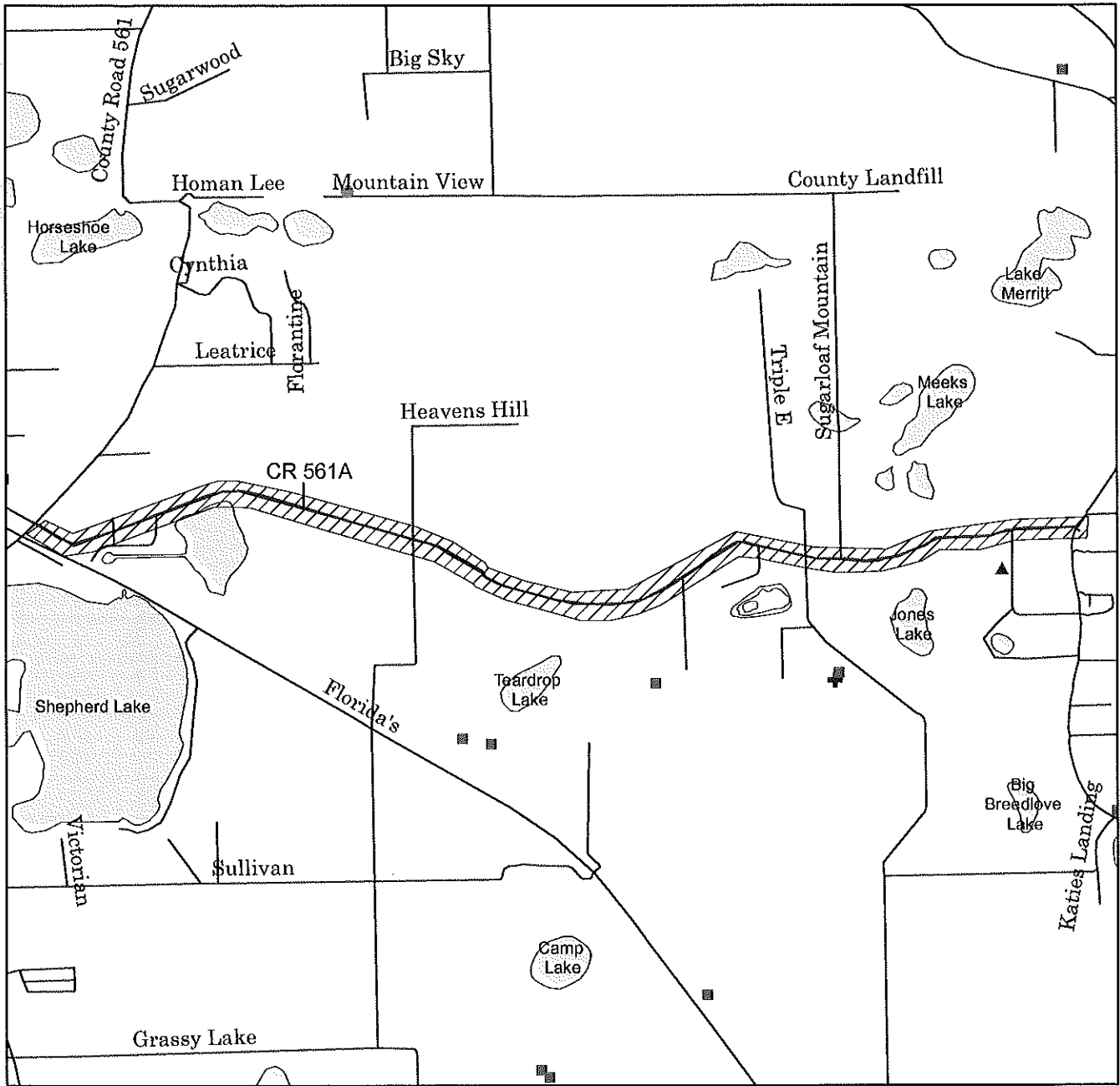


	County Boundary
	Project Site
	Strategic Habitat Conservation Area



Species Locations

County Road 561-A - Lake County

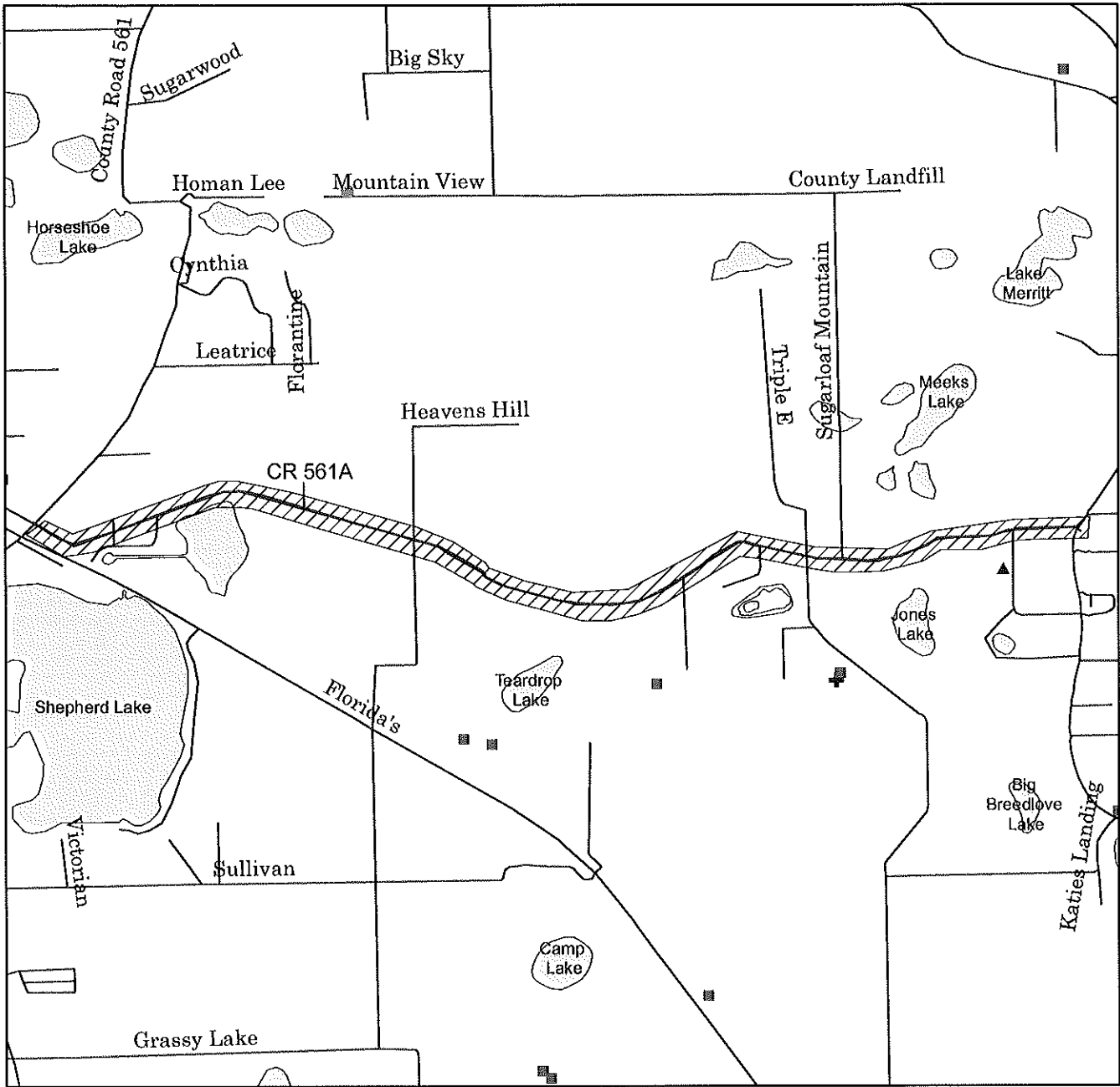


- Scrub Jays
- Florida Natural Areas Inventory
- ⊕ Wildlife observations of listed species 2002
- County Boundary
- ▨ Project Site



Species Locations

County Road 561-A - Lake County



- Scrub Jays
- Florida Natural Areas Inventory
- ⊕ Wildlife observations of listed species 2002
- County Boundary
- ▨ Project Site



M E M O R A N D U M

PUBLIC WORKS DEPARTMENT


*Engineering Division
437 Ardice Ave.
Eustis, FL 32726*



LAKE COUNTY
FLORIDA

P: 352-483-9043
F: 352-483-9015
www.lakecountyfl.gov

To: Fred Schneider, PE, Engineering Director
Noble Olasimbo, AICP, Transportation Manager

From: Phil Maggio, PE, Construction Engineering and Special Projects Manager 

Date: November, 3, 2008

Subject: Eagle Nest Data and Biodiversity Index 561A Corridor

I have attached information regarding eagle nest data and biodiversity index for the 561A Corridor as requested.

C: File (Engineering) Minneola Collector Road

JENNIFER HILL
District 1

ELAINE RENICK
District 2

DEBBIE STIVENDER
District 3

LINDA STEWART
District 4

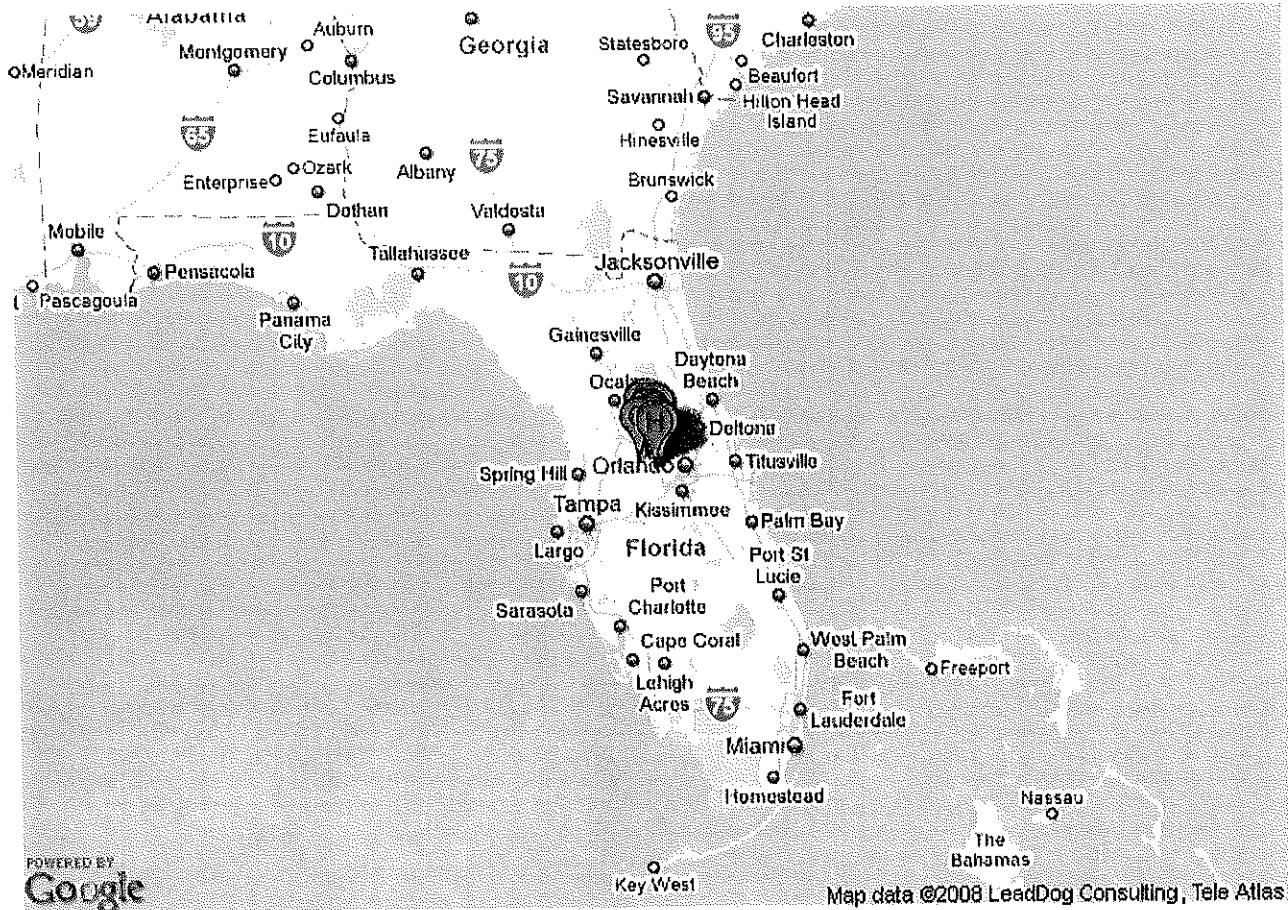
WELTON G. CADWELL
District 5

This report was generated using the bald eagle nest locator at www.MyFWC.com/eagle/mapping on 10/30/2008 12:28:27 PM.

Search Entered: Within 10 miles of 14051 County Road 561A, Clermont, FL 34715, USA 34715 (latitude 28.622048 and longitude -81.721984); All Search Results

19 record(s) were found; 19 record(s) are shown

Bald Eagle Nest Map:



Bald Eagle Nest Data Search Results:

Results per page: All

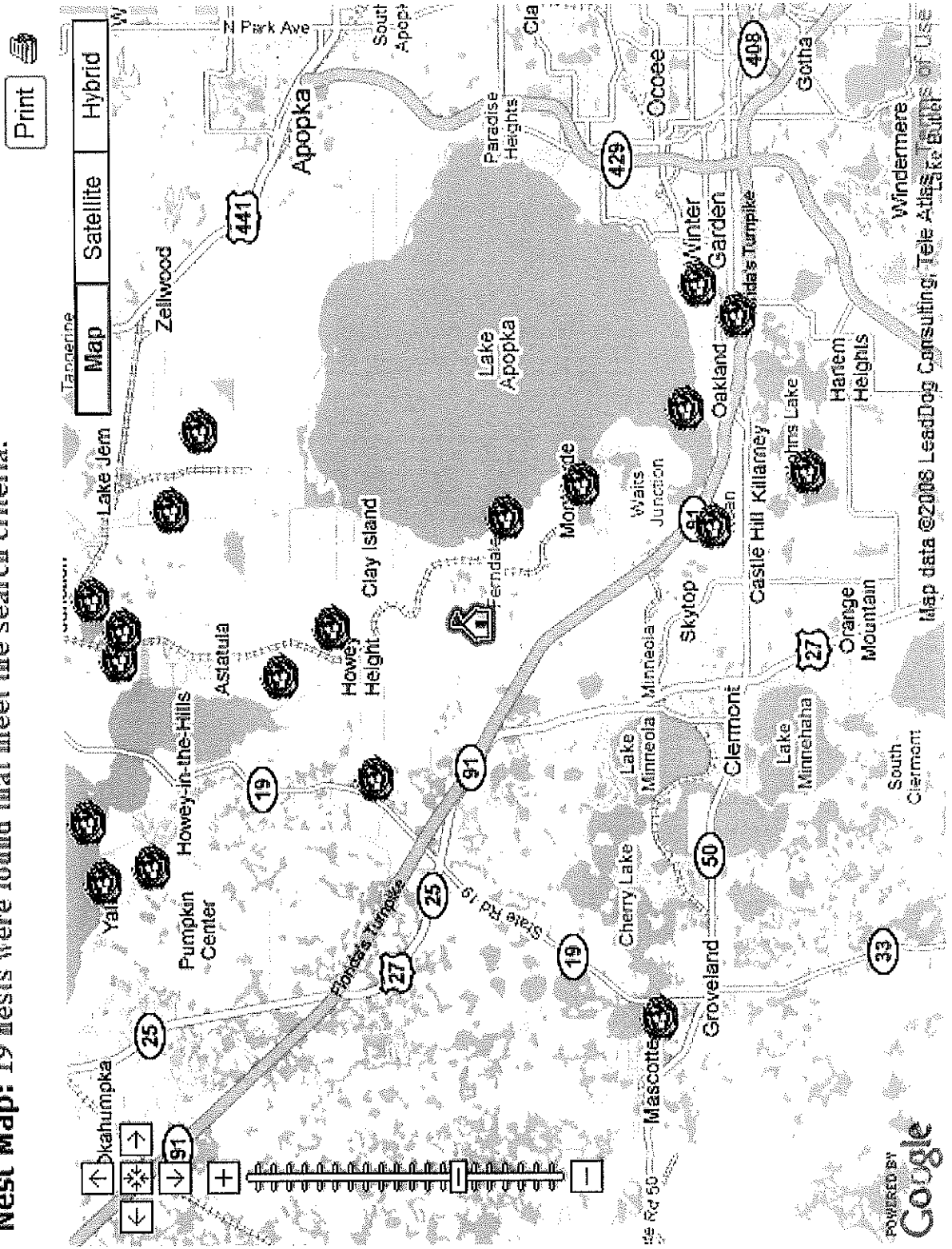
Letter	Nest ID	County	Longitude	Latitude	Township	Range	Section	Gaz Page	Last Active	Act 04	Act 05	Act 06	Act 07	Act 08	Distance (Miles)
A	LA001	Lake	81 43.38	28 40.22	21S	26E	08	79	2007	Y	Y	Y	Y	N	3.33
B	LA002	Lake	81 44.44	28 41.17	21S	26E	06	79	2008	Y	Y	Y	Y	Y	4.57
C	LA003	Lake	81 43.45	28 44.12	20S	26E	21	79	2006	Y	Y	Y	N	N	7.82
D	LA020	Lake	81 40.34	28 35.54	22S	26E	12	79	2008	Y	Y	Y	Y	Y	3.64
E	LA026	Lake	81 41.26	28 33.07	22S	26E	23	79	2007	Y	Y	Y	Y	N	5.32
F	LA117	Lake	81 42.78	28 44.70	20S	26E	16	79	2008	Y	Y	N	N	Y	8.51
G	LA119	Lake	81 48.46	28 43.61	20S	25E	21	79	2008	-	Y	Y	U	Y	8.90
H	LA130	Lake	81 40.10	28 31.30	22S	26E	36	79	2002	-	-	-	-	-	7.66
I	LA135	Lake	81 40.87	28 43.22	20S	26E	26	79	2007	Y	Y	Y	Y	N	7.22

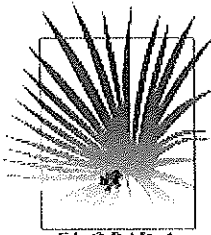
J	LA140	Lake	81 44.06	28 44.17	20S	26E	20	79	2008	Y	Y	Y	Y	Y	7.91
K	LA154	Lake	81 41.06	28 36.94	21S	26E	35	79	2008	Y	Y	Y	Y	Y	2.32
L	LA155	Lake	81 46.60	28 39.40	21S	25E	14	79	2003	-	-	-	-	-	4.09
M	LA163	Lake	81 48.78	28 44.50	20S	25E	16	79	2006	Y	Y	Y	N	N	9.93
N	LA164	Lake	81 47.50	28 44.80	20S	25E	15	79	2002	-	-	-	-	-	9.58
O	LA180	Lake	81 51.72	28 34.13	22S	24E	13	79	2008	-	-	Y	Y	Y	9.25
P	OR018	Orange	81 36.75	28 32.62	22S	27E	28	79	2008	Y	Y	Y	Y	Y	8.56
Q	OR035	Orange	81 39.19	28 42.65	20S	27E	31	79	2008	N	N	N	Y	Y	7.41
R	OR052	Orange	81 36.10	28 33.34	22S	27E	22	79	2006	-	Y	Y	N	N	8.61
S	OR054	Orange	81 38.72	28 33.59	22S	27E	19	79	2008	-	-	Y	Y	Y	6.33

"Y" denotes an active nest
 "N" denotes an inactive nest

"U" denotes a nest that was visited but status was undetermined
 "-" denotes an unobserved nest or a nest whose activity status is unknown

Nest Map: 19 nests were found that meet the search criteria.





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 Suite 200-C
 Tallahassee, FL 32303
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FLORIDA
Natural Areas
 INVENTORY

Florida Natural Areas Inventory Biodiversity Matrix Query Results

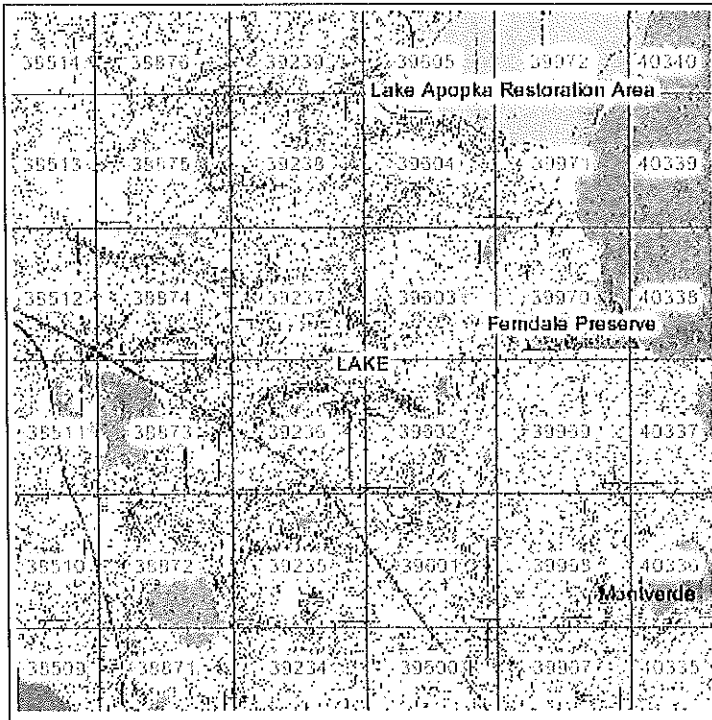
UNOFFICIAL REPORT

Created 10/30/2008

(Contact the FNAI Data Services Coordinator at 850.224.8207 for information on an official Standard Data Report)

NOTE: The Biodiversity Matrix includes only rare species and natural communities tracked by FNAI.

Report for 8 Matrix Units: **38873 , 38874 , 39236 , 39237 , 39602 , 39603 , 39969 , 39970**



Descriptions

DOCUMENTED - There is a documented occurrence in the FNAI database of the species or community within this Matrix Unit.

DOCUMENTED-HISTORIC - There is a documented occurrence in the FNAI database of the species or community within this Matrix Unit; however the occurrence has not been observed/reported within the last twenty years.

LIKELY - The species or community is *known* to occur in this vicinity, and is considered likely within this Matrix Unit because:

1. documented occurrence overlaps this and adjacent Matrix Units, but the documentation isn't precise enough to indicate which of those Units the species or community is actually located in; *or*
2. there is a documented occurrence in the vicinity and there is suitable habitat for that species or community within this Matrix Unit.

POTENTIAL - This Matrix Unit lies within the known or predicted range of the species or community based on expert knowledge and environmental variables such as climate, soils, topography, and landcover.

Matrix Unit ID: 38873

0 Documented Elements Found

0 Documented-Historic Elements Found

4 Likely Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<i>Grus canadensis pratensis</i> Florida Sandhill Crane	G5T2T3	S2S3	N	LT
<i>Mesic flatwoods</i>	G4	S4	N	N

<i>Prunus geniculata</i> Scrub Plum	G3	S3	LE	LE
<i>Sandhill upland lake</i>	G3	S2	N	N

Matrix Unit ID: 38874

0 Documented Elements Found

0 Documented-Historic Elements Found

2 Likely Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<i>Grus canadensis pratensis</i> Florida Sandhill Crane	G5T2T3	S2S3	N	LT
<i>Sandhill upland lake</i>	G3	S2	N	N

Matrix Unit ID: 39236

6 Documented Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<i>Bonamia grandiflora</i> Florida Bonamia	G3	S3	LT	LE
<i>Chionanthus pygmaeus</i> Pygmy Fringe Tree	G3	S3	LE	LE
<i>Paronychia chartacea ssp. chartacea</i> Paper-like Nailwort	G3T3	S3	LT	LE
<i>Prunus geniculata</i> Scrub Plum	G3	S3	LE	LE
<i>Sandhill</i>	G3	S2	N	N
<i>Warea amplexifolia</i> Clasping Warea	G1	S1	LE	LE

0 Documented-Historic Elements Found

5 Likely Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<i>Eriogonum longifolium var. gnaphalifolium</i> Scrub Buckwheat	G4T3	S3	LT	LE
<i>Mesic flatwoods</i>	G4	S4	N	N
<i>Polygala lewtonii</i> Lewton's Polygala	G3	S3	LE	LE
<i>Polygonella myriophylla</i> Small's Jointweed	G3	S3	LE	LE
<i>Warea carteri</i> Carter's Warea	G3	S3	LE	LE

Matrix Unit ID: 39237

0 Documented Elements Found

0 Documented-Historic Elements Found

1 Likely Element Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<i>Polygala lewtonii</i> Lewton's Polygala	G3	S3	LE	LE

Matrix Unit ID: 39602

9 Documented Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<i>Bonamia grandiflora</i> Florida Bonamia	G3	S3	LT	LE
<i>Eriogonum longifolium</i> var. <i>gnaphalifolium</i> Scrub Buckwheat	G4T3	S3	LT	LE
<i>Gopherus polyphemus</i> Gopher Tortoise	G3	S3	N	LT
<i>Nolina brittoniana</i> Britton's Beargrass	G3	S3	LE	LE
<i>Paronychia chartacea</i> ssp. <i>chartacea</i> Paper-like Nailwort	G3T3	S3	LT	LE
<i>Polygala lewtonii</i> Lewton's Polygala	G3	S3	LE	LE
<i>Prunus geniculata</i> Scrub Plum	G3	S3	LE	LE
<i>Sandhill</i>	G3	S2	N	N
<i>Warea amplexifolia</i> Clasping Warea	G1	S1	LE	LE

0 Documented-Historic Elements Found

3 Likely Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<i>Chionanthus pygmaeus</i> Pygmy Fringe Tree	G3	S3	LE	LE
<i>Drymarchon couperi</i> Eastern Indigo Snake	G3	S3	LT	LT
<i>Mesic flatwoods</i>	G4	S4	N	N

Matrix Unit ID: 39603

0 Documented Elements Found

0 Documented-Historic Elements Found

2 Likely Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<i>Polygala lewtonii</i> Lewton's Polygala	G3	S3	LE	LE
<i>Sandhill upland lake</i>	G3	S2	N	N

Matrix Unit ID: 39969

2 Documented Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<i>Basin swamp</i>	G4	S3	N	N
<i>Gopherus polyphemus</i> Gopher Tortoise	G3	S3	N	LT

0 Documented-Historic Elements Found

1 Likely Element Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<i>Drymarchon couperi</i> Eastern Indigo Snake	G3	S3	LT	LT

Matrix Unit ID: 39970

1 Documented Element Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<i>Sideroxylon alachuense</i> Silver Buckthorn	G1	S1	N	LE

0 Documented-Historic Elements Found

2 Likely Elements Found

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<i>Drymarchon couperi</i> Eastern Indigo Snake	G3	S3	LT	LT
<i>Sandhill upland lake</i>	G3	S2	N	N

Matrix Unit IDs: 38873, 38874, 39236, 39237, 39602, 39603, 39969, 39970

47 Potential Elements Common to Any of the 8 Matrix Units

Scientific and Common Names	Global Rank	State Rank	Federal Status	State Listing
<i>Agrimonia incisa</i> Incised Groove-bur	G3	S2	N	LE
<i>Aimophila aestivalis</i> Bachman's Sparrow	G3	S3	N	N
<i>Arnoglossum diversifolium</i> Variable-leaved Indian-plantain	G2	S2	N	LT
<i>Asplenium heteroresiliens</i> Wagner's Spleenwort	GNA	S1	N	N
<i>Athene cunicularia floridana</i> Florida Burrowing Owl	G4T3	S3	N	LS
<i>Bonamia grandiflora</i> Florida Bonamia	G3	S3	LT	LE
<i>Calamintha ashei</i> Ashe's Savory	G3	S3	N	LT
<i>Calopogon multiflorus</i> Many-flowered Grass-pink	G2G3	S2S3	N	LE
<i>Carex chapmanii</i> Chapman's Sedge	G3	S3	N	LE
<i>Centrosema arenicola</i>				

Sand Butterfly Pea	G2Q	S2	N	LE
<i>Chionanthus pygmaeus</i>	G3	S3	LE	LE
Pygmy Fringe Tree				
<i>Clitoria fragrans</i>	G3	S3	LT	LE
Scrub Pigeon-wing				
<i>Coelorachis tuberculosa</i>	G3	S3	N	LT
Piedmont Jointgrass				
<i>Corynorhinus rafinesquii</i>	G3G4	S2	N	N
Rafinesque's Big-eared Bat				
<i>Drymarchon couperi</i>	G3	S3	LT	LT
Eastern Indigo Snake				
<i>Eriogonum longifolium</i> var. <i>gnaphalifolium</i>	G4T3	S3	LT	LE
Scrub Buckwheat				
<i>Gopherus polyphemus</i>	G3	S3	N	LT
Gopher Tortoise				
<i>Grus canadensis pratensis</i>	G5T2T3	S2S3	N	LT
Florida Sandhill Crane				
<i>Gymnopogon chapmanianus</i>	G3	S3	N	N
Chapman's Skeletongrass				
<i>Hartwrightia floridana</i>	G2	S2	N	LT
Hartwrightia				
<i>Heterodon simus</i>	G2	S2	N	N
Southern Hognose Snake				
<i>Illicium parviflorum</i>	G2	S2	N	LE
Star Anise				
<i>Lechea cernua</i>	G3	S3	N	LT
Nodding Pinweed				
<i>Lupinus aridorum</i>	G1	S1	LE	LE
Scrub Lupine				
<i>Matelea floridana</i>	G2	S2	N	LE
Florida Spiny-pod				
<i>Mustela frenata peninsulae</i>	G5T3	S3	N	N
Florida Long-tailed Weasel				
<i>Myotis austroriparius</i>	G3G4	S3	N	N
Southeastern Bat				
<i>Nemastylis floridana</i>	G2	S2	N	LE
Celestial Lily				
<i>Neofiber alleni</i>	G3	S3	N	N
Round-tailed Muskrat				
<i>Nolina brittoniana</i>	G3	S3	LE	LE
Britton's Beargrass				
<i>Notopthalmus perstriatus</i>	G2G3	S2S3	N	N
Striped Newt				
<i>Panicum abscissum</i>	G3	S3	N	LE
Cutthroat Grass				
<i>Paronychia chartacea</i> ssp. <i>chartacea</i>	G3T3	S3	LT	LE
Paper-like Nailwort				
<i>Picoides borealis</i>	G3	S2	LE	LS
Red-cockaded Woodpecker				
<i>Pituophis melanoleucus mugitus</i>	G4T3	S3	N	LS
Florida Pine Snake				
<i>Podomys floridanus</i>	G3	S3	N	LS
Florida Mouse				
<i>Polygala lewtonii</i>	G3	S3	LE	LE
Lewton's Polygala				
<i>Polygonella myriophylla</i>	G3	S3	LE	LE
Small's Jointweed				
<i>Prunus geniculata</i>	G3	S3	LE	LE
Scrub Plum				
<i>Pteroglossaspis ecristata</i>				

Giant Orchid	G2G3	S2	N	LT
<i>Rana capito</i>	G3	S3	N	LS
Gopher Frog				
<i>Salix floridana</i>	G2	S2	N	LE
Florida Willow				
<i>Sciurus niger shermani</i>	G5T3	S3	N	LS
Sherman's Fox Squirrel				
<i>Spigelia loganioides</i>	G2Q	S2	N	LE
Pinkroot				
<i>Stilosoma extenuatum</i>	G3	S3	N	LT
Short-tailed Snake				
<i>Warea amplexifolia</i>	G1	S1	LE	LE
Clasping Warea				
<i>Warea carteri</i>	G3	S3	LE	LE
Carter's Warea				

Disclaimer

The data maintained by the Florida Natural Areas Inventory represent the single most comprehensive source of information available on the locations of rare species and other significant ecological resources statewide. However, the data are not always based on comprehensive or site-specific field surveys. Therefore, this information should not be regarded as a final statement on the biological resources of the site being considered, nor should it be substituted for on-site surveys. FNAI shall not be held liable for the accuracy and completeness of these data, or opinions or conclusions drawn from these data. FNAI is not inviting reliance on these data. Inventory data are designed for the purposes of conservation planning and scientific research and are not intended for use as the primary criteria for regulatory decisions.

Unofficial Report

These results are considered unofficial. FNAI offers a Standard Data Request option for those needing certifiable data.