

**STATUS SURVEY AND SEARCH EFFORTS FOR *SCHWALBEA AMERICANA* L.  
(AMERICAN CHAFFSEED) IN GEORGIA: 2013-2014**

**FINAL REPORT**

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**TABLE OF CONTENTS**

INTRODUCTION.....	3
METHODS.....	3
RESULTS.....	4
DISCUSSION.....	4
ACKNOWLEDGEMENTS.....	5
REFERENCES CITED.....	5
TABLES.....	6
APPENDIX A – Field survey data 2013-2014.....	13
APPENDIX B – Maps of major areas surveyed.....	140

## INTRODUCTION

*Schwalbea americana* L. (American chaffseed) is listed federally and by the State of Georgia as *Endangered* (U.S. Fish and Wildlife Service 1992; Anonymous 2008). Its rarity resulting from habitat fragmentation and the exclusion of fire has been well documented (Musselman and Mann 1978, Kral 1983, U.S. Fish and Wildlife Service 1995). Few plants are as closely adapted to fire as *S. americana* (cf. U.S. Fish and Wildlife Service 1995; Kirkman 1996; Kirkman et al. 1998; Norden and Kirkman 2004a, b), and all extant sites in Georgia appear to be managed with prescribed fire and have a wiregrass component. Moreover, recent publications on the life history and ecology of *S. americana* (Townsend 1997; Kirkman et al. 1998; Helton et al. 2000; Norden and Kirkman 2004a, b) have provided much information on its relationship with fire. In 2007-2008 a field survey of *S. americana* in Georgia was conducted (Carter and Baker 2009). Our purpose is to re-survey the permanent plots established during the 2007-2008 survey and, in general, other element occurrences reported by Carter and Baker (2009), and to search for additional populations. Following are specific goals of this project.

1. To monitor known populations of the target species, especially the permanent plots previously established, in order to determine population trends
2. To search for new populations in suitable habitat
3. To assess presence of other selected rare plants, animals and significant natural communities associated with or adjacent to both known and potential chaffseed localities

Rare plants known or suspected to be associated with *Schwalbea americana* habitats include purple honeycomb-head (*Balduina atropurpurea*), hummingbird flower (*Macranthera flammea*), wiregrass dropseed (*Sporobolus heterolepis*), dewthreads (*Drosera tracyi*), Stoke's aster (*Stokesia laevis*), crestless plume orchid (*Pteroglossaspis ecristata*) and savanna cowbane (*Oxypolis dentigulata*). Other rarities of longleaf pine-wiregrass habitats include Bachman's sparrow, red-cockaded woodpecker, pocket gopher, indigo snake, gopher tortoise, and pine snake.

In addition to inducing the flowering of chaffseed, fire reduces plant cover and dead plant debris that hinder observation of chaffseed. Therefore, most observations on chaffseed are made on lands managed with prescribed fire. Since the persistent blackened old stems of chaffseed plants are conspicuous, searches may be fruitful right up to the next fire event, at least into the winter months. Special emphasis will be placed on public lands, such as Silver Lake Wildlife Management Area, Mayhaw Wildlife Management Area, Flat Tub Wildlife Management Area, Broxton Rocks Nature Preserve, and Doerun Pitcherplant Bog Natural Area and on well managed private lands with suitable habitat.

## METHODS

Surveys of known sites were based upon those documented in Carter and Baker (2009). Because of the difficulty of locating plants in habitats not recently burned and the general beneficial effect of fire on *S. americana*, most survey effort was made in areas burned during the current year. In general, surveys of sites with the potential for supporting populations of *S. americana* were conducted using a four-wheel drive vehicle, covering as much of the area as possible via roads, jeep trails, fire breaks, and edges of fields. Generally, a team of two individuals was involved, with the team members searching from opposite sides of the survey vehicle, using binoculars when necessary. Additionally, frequent and regular foot surveys were made along these routes by the survey team.

When populations of *S. americana* were found, individual plants were counted. *Schwalbea americana* plants often branch basally producing multiple aerial stems. Thus, tight basal clumps of stems were generally counted as one individual plant – not multiple plants. Care was taken to examine the bases of plants with multiple stems to determine as accurately as possible the number of individuals present. Additional data recorded in the field, included date of survey, phenology (e.g., plant vegetative, plant in bud, plant in flower, plant in fruit), community type, lists of associated species, attributes of topography (e.g., steepness of slope, exposure of slope), evidence of disturbance, evidence of threats, information about ownership and management, observations on management practices, and observations of other rare or unusual species. In order to document populations associated species, including other rare or unusual flora, voucher specimens were prepared on a selected basis. Voucher specimens were deposited in the Valdosta State University Herbarium (VSC).

An additional 250m<sup>2</sup> permanent plot was established at the Doerun 03 site in the Doerun Pitcherplant Bog Natural Area in Colquitt County, and plots established in 2008 were monitored for *Schwalbea americana*, according to the protocol described in Carter and Baker (2009).

## RESULTS

Data on numbers of *S. americana* plants observed, dates of observations, etc. are recorded in Table 1. Tables 2 and 3 compare results from the current survey with results from the 2007-2008 survey reported in Carter and Baker (2009). Although no new metapopulations were discovered, two additional population extensions were found in Thomas County (Arcadia 03b, Arcadia 05a). Field data are organized chronologically in Appendix A, including general locality data and the citation of voucher specimens and observations of rare or otherwise noteworthy taxa and other associated species. Populations of rare or otherwise noteworthy taxa are highlighted in yellow in Appendix A, and vouchers specimens with label data are deposited at the Valdosta State University Herbarium (VSC). Maps of the major areas surveyed for new populations of *S. americana* are shown in Appendix B. The location of the newly established 250m<sup>2</sup> permanent plot is shown in Table 4, and densities of *Schwalbea americana* plants in the 250m<sup>2</sup> permanent plots are reported in Tables 5 and 6 and are compared with similar data from 2008.

## DISCUSSION

In general, population levels of *Schwalbea americana* were lower both in permanent plots and adjacent habitat in 2013-2014 than those reported by Carter and Baker in 2009. Other than temporary absence of fire (e.g., Jeffords 01, 01a, 01b, 01c, 03), habitat degradation did not appear to be a factor in the decline in numbers. Similar fluctuations were reported in Carter and Baker (2009) and do not seem to be any cause for concern, although all populations should be monitored in future in order to collect data that might be useful in understanding this phenomenon, especially as it might relate to climatic changes (e.g., drought). We also recommend establishing additional permanent plots in *S. americana* populations, and perhaps larger plots for a more robust analysis. It would also be desirable to be able to collect climatic data locally for each population, and this should be considered.

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**Table 1. 2013-2014 *Schwalbea americana* Element Occurrence survey results [Abbreviations: NA = not applicable, vg = vegetative plant, fl = flowering plant, fr = fruiting plant].**

Element Occurrence (EO)	Date of Survey	General Condition of Site	Results	Permanent Plot Results	Miscellaneous Notes
Arcadia 01	2013-07-09	Burned 2013-04-17	186 plants	56 plants [46 vg + 10 fr]	Monument difficult to find: New GPS point taken: 30.77113N, 84.00262W: Located ca. 1.5 ft north of base of scarred <i>Pinus palustris</i> (28.4 cm dbh, scar on west side of tree), with a <i>Quercus falcata</i> sprout adjacent
Arcadia 01a	2013-07-09	Recent mid-April burn	0	NA	
Arcadia 02	2013-07-16	Recent mid-April burn	18 plants [14 fr + 4 vg]	NA	
Arcadia 02a	2013-07-16	Recent mid-April burn	5 plants [4 fr + 1 vg]	NA	
Arcadia 03	2013-07-16	Recent mid-April burn	1 plant [fr]	NA	
Arcadia 03a	2013-07-16	Recent mid-April burn	1 plant [fr]	NA	
Arcadia 03b [new EO]	2013-07-16	Recent mid-April burn	98 plants [94 fr + 1 vg]	NA	This EO is a westward extension of Arcadia 03a
Arcadia 04	2013-06-24	Burned 2013-04-17	25 plants [22 fr + 3 vg]	11 plants [10 fr + 1 vg]	
Arcadia 04a	2013-06-24	Recent mid-April burn	0		
Arcadia 05	2013-07-16	Recent mid-April burn	14 plants [fr]	NA	
Arcadia 05a [new EO]	2013-07-16	Recent mid-April burn	1 plant [fr]	NA	This EO is a southwestward extension of Arcadia 05: 30.76760, -84.00129.
Arcadia 06	2013-07-09	Recent mid-April burn	7 plants [fr]	NA	
Arcadia 07	2013-07-09	Recent mid-April burn	0	NA	
Arcadia 07a	2013-07-09	Recent mid-April burn	0	NA	
Arcadia 08	2013-07-09	Recent mid-April burn	36 plants [24 fr + 12 vg]	NA	
Arcadia 09	2013-07-16	Recent mid-April burn	2 plants [1 fr + 1 vg]	NA	Aerial stem of <u>vegetative</u> plant had been grazed of flowers/ruits.

Doerun 01	2013-07-17	Recent mid-May burn	0	NA	
Doerun 02	2013-07-17	1 year rough	--	NA	
Doerun 03	2013-07-17	Recent mid-May burn	82 plants [fr]	30 plants [fr]	Permanent plot established: Monument in SW corner (heading 320°): 31.29149, -83.88670. In permanent plot, majority of plants had multiple stems, up to 10 stems/plant; most plants were still green with mature fruit; 2 plants had recently died.
Jeffords 01, 01a, 01b, 01c	2013-05-07 2013-06-19 2014-07-11	1 year rough 2 year rough	--	Could not relocate monument	Site not burned during survey: A few scattered stems remaining from previous year; only a few green plants were observed in the greater area, these with mature fruits
Jeffords 02	2014-07-11	Good recent burn	97 plants [96 fl + 1 fr]	NA	
Jeffords 03	2013-06-19 2014-07-11	1 year rough 2 year rough	--	NA	
Jeffords 04	2013-07-17	Recent burn	33 plants [fr]	NA	Plants mostly robust with multiple stems
Jeffords 04a	2013-07-17	Recent burn	19 plants [fr]	NA	
Jeffords 05	2014-07-11	Good recent burn	23 plants [22 fr + 1 fl]	NA	
Jeffords 05a	2014-07-11	Good recent burn	2 plants [fr]	NA	
Jeffords-Hancock 01	2013-06-19	Good recent burn	0	NA	Return visit 2013-09-20: No plants found
Nilo 01	--	--	--	NA	
Nilo 01a	--	--	--	NA	
Pinewood	--	--	--	NA	Change in ownership and management: Survey not possible
Quail Ridge 01	2013-06-19	Burned 2013-04-20	21 plants [20 fr + 1 fl]	15 plants [14 fr + 1 fl]	
Quail Ridge 01a	2013-06-19	Burned 2013-04-20	0	NA	

Weatherbee 01	2014-07-11	2 year rough	--	NA	
Weatherbee 02	2014-07-11	2 year rough	--	NA	

**Table 2. Comparison of *Schwalbea americana* populations and subpopulations from surveys conducted in 2007–2008 and 2013–2014; see Carter and Baker (2009) and Table 1 for details [Abbreviation: NA = not applicable].**

EO Site Name	Number of Individuals		Percent Change
	2007–2008 Survey	2013–2014 Survey	
<b>Arcadia 01</b>	283 (2007)	56	-80%
<b>Arcadia 01a</b>	5 (2007)	0	-100%
<b>Arcadia 02</b>	4 (2007)	18	+450%
<b>Arcadia 02a</b>	17 (2007)	5	-71%
<b>Arcadia 03</b>	7 (2006)	1	-86%
<b>Arcadia 03a</b>	26 (2007)	1	-96%
<b>Arcadia 03b</b>	NA	98	
<b>Arcadia 04</b>	86 (2007)	25	-71%
<b>Arcadia 04a</b>	4 (2007)	0	-100%
<b>Arcadia 05</b>	126 (2007)	14	-89%
<b>Arcadia 05a</b>	NA	1	
<b>Arcadia 06</b>	15 (2007)	7	-53%
<b>Arcadia 07</b>	8 (2007)	0	-100%
<b>Arcadia 07a</b>	4 (2007)	0	-100%
<b>Arcadia 08</b>	18 (2007)	36	+100%
<b>Arcadia 09</b>	9 (2007)	2	-77%
<b>Doerun 01</b>	2 (2008)	0	-100%
<b>Doerun 02</b>	1 (2008)	--	
<b>Doerun 03</b>	100 (2008)	82	-18%
<b>Freeman 01</b>	581 (2008)	--	
<b>Freeman 01a</b>	13 (2008)	--	
<b>Freeman 01b</b>	242 (2008)	--	
<b>Freeman 01c</b>	6 (2008)	--	
<b>Freeman 01d</b>	4 (2008)	--	
<b>Jeffords 01</b>	393 (2007)	--	
<b>Jeffords 01a</b>	449 (2007)	--	
<b>Jeffords 01b</b>	154 (2007)	--	
<b>Jeffords 01c</b>	6 (2007)	--	
<b>Jeffords 02</b>	198 (2007)	97	-51%
<b>Jeffords 03</b>	76 (2007)	--	
<b>Jeffords 04</b>	26 (2008)	33	+27%
<b>Jeffords 04a</b>	13 (2008)	19	+46%
<b>Jeffords 05</b>	335 (2007)	23	- 93%
<b>Jeffords 05a</b>	9 (2007)	2	-78%
<b>Jeffords-Hancock 01</b>	7 (2007)	0	-100%
<b>Nilo 01</b>	13 (2007)	--	
<b>Nilo 01a</b>	108 (2007)	--	
<b>Pinewood 01</b>	6 (2008)	--	
<b>Pinewood 02</b>	5 (2008)	--	
<b>Pinewood 03</b>	16 (2008)	--	
<b>Pinewood 03a</b>	3 (2008)	--	
<b>Pinewood 04</b>	9 (2008)	--	
<b>Pinewood 05</b>	1 (2008)	--	
<b>Pinewood 06</b>	3 (2008)	--	
<b>Pinewood 07</b>	10 (2008)	--	
<b>Quail Ridge 01</b>	31 (2007), 283 (2008)	21	- 93%

<b>Quail Ridge 01a</b>	0 (2007), 13 (2008)	0	-100%
<b>Weatherby 01</b>	255 (2007)	--	
<b>Weatherby 02</b>	5 (2008)	--	

**Table 3. Changes in sizes of *Schwalbea americana* metapopulations from 2009 to 2014.**

Metapopulation	Number of Plants		Percent Change
	2007-2008	2013-2014	
<b>Arcadia</b>	608	264	-57%
<b>Doerun</b>	103	82	-20%
<b>Freeman</b>	846	--	--
<b>Jeffords</b> (excl. 01, 01a, 01b, 01c, 03)	588	174	-70%
<b>Jeffords-Hancock</b>	7	0	-100%
<b>Nilo</b>	121	--	--
<b>Pinewood</b>	59	--	--
<b>Quail Ridge</b>	296	21	-93%
<b>Weatherbee</b>	260	--	--

**Table 4. Attributes of permanent 250m<sup>2</sup> plots, with reference to EO site, state, county, USGS topographic quadrangle, GPS coordinates, orientation of plot, position of primary plot corner, and survey date.**

Element Occurrence Site Name	State / County	USGS Topo Quad	GPS Coordinates	Orientation of Plot / Position of Primary Corner	Survey Date
<b>Arcadia 01</b>	Georgia / Thomas Co.	Pine Park, GA	30.77113N 84.00268W	N to S / SE	2008-06-12
<b>Arcadia 04</b>	Georgia / Thomas Co.	Pine Park, GA	30.76464N 84.00242W	N to S / SW	2008-06-12
<b>Doerun 03</b>	Georgia / Colquitt Co.	Doerun, GA	31.29149N 83.88670W	320° / SW	2013-07-17
<b>Jeffords 01</b>	Georgia / Worth Co.	Tempy, GA	31.40547N 83.85597W	N to S / NE	2008-07-10
<b>Quail Ridge 01</b>	Georgia / Worth Co.	Norman Park, GA	31.32169N 83.72299W	E to W / NE	2008-06-20

**Table 5. Summary of quantitative data on phenology and density of *Schwalbea americana* plants in permanent 250m<sup>2</sup> plots for 2007-2008 and 2013-2014 surveys.**

Element Occurrence Site Name	Total Number of Plants (N)		Density (N/250m <sup>2</sup> )	
	2008	2014	2008	2014
Arcadia 01	139	56	0.556	0.224
Arcadia 04	36	11	0.144	0.044
Doerun 03	--	30	--	0.125
Jeffords 01	63	--	0.252	--
Quail Ridge 01	104	15	0.416	0.060

**Table 6. Percent change in the number of *Schwalbea americana* plants in permanent plots from 2008 to 2014.**

Element Occurrence Site Name	Total Number of Plants (N)		Percent Change
	2008	2014	
Arcadia 01	139	56	-60%
Arcadia 04	36	11	-69%
Doerun 03	--	30	--
Jeffords 01	63	--	--
Quail Ridge 01	104	15	-86%

**Appendix A. Field Survey Data 2013-2014.** Data on all vouchers collected and general observations of associated species are presented here, with rare or otherwise noteworthy species highlighted in yellow. See Appendix B for maps of major areas surveyed.

**MM/DD/YYYY****Collector** with co-collector(s)**COUNTRY. State: County****Latitude/Longitude**

Collection locality

Habitat [--]

Associated species [with]

**Collection number** [number of duplicates] Family Genus species Auth.

Determiner

Misc. data about individual collection

**Noteworthy taxa highlighted in yellow.****3/21/2013****Richard Carter** with W. W. Baker**U.S.A. Georgia: Miller County****31.21738N/84.805W**

Mayhaw WMA, Willoughby Tract, E of Springhead Rd., E of long field

--degraded longleaf pine-wiregrass community

with *Pinus palustris*, *Quercus virginiana*, *Q. laevis*, *Q. pumila*, *Q. minima*, *Vaccinium myrsinites*, *V. darrovi*, *Myrica cerifera*, *Manfreda virginica***20683** [3] Rhamnaceae *Ceanothus microphyllus* Michx.

det. R. Carter

low shrub, 4-5 dm tall, with sprawling crown; occasional

**20684** [1] Violaceae *Viola septemloba* LeConte

det. R. Carter

plants infrequent, corolla deep blue

**20685** [1] Polygalaceae *Polygala nana* (Michx.) DC.

det. R. Carter

occasional; flowers yellow, roots aromatic

**20686** [2] Myricaceae *Morella pumila* (Michx.) Small

det. R. Carter

low shrub, 5 dm tall, clonal, locally common

**20687** [2] Myricaceae *Morella cerifera* (L.) Small

det. R. Carter

shrub, 2 m tall, common; staminate plant

**20688** [2] Myricaceae *Morella cerifera* (L.) Small

det. R. Carter

shrub, 2 m tall, common; carpellate plant

**20689** [2] Ericaceae *Gaylussacia nana* (A. Gray) Small

det. R. Carter

low shrub, 5 dm tall, occasional

**20690** [1] Ericaceae *Vaccinium darrooii* Camp

det. R. Carter

low shrub, 5 dm tall, locally common, corolla white

--along ecotone between longleaf pine-wiregrass upland and creek swamp

**20691** [6] Clusiaceae *Hypericum microsepalum* (Torr. & A. Gray) A. Gray & S. Wats.

det. R. Carter

locally common; low shrub, clonal, flowers yellow, showy

**20692** [1] Loganiaceae *Gelsemium sempervirens* (L.) St. Hillaire

det. R. Carter

vine, locally common, corolla yellow, showy

**20693** [1] Cistaceae *Crocanthemum carolinianum* (Walt.) Spach [*Helianthemum carolinianum* (Walt.) Michx.]

det. R. Carter

occasional; corolla yellow, showy

**Richard Carter** with W. W. Baker

**31.21909N/84.80658W**

Mayhaw WMA, Willoughby Tract, E of Springhead Rd., along wind row in long field

--edge of field

**20694** [6] Rosaceae *Prunus umbellata* Ell.

det. R. Carter

occasional, local; large shrub, trunk with 3-4 inch basal diameter, lenticels horizontal, corolla white

--fallow field, sandy loam soil

**20695** [3] Oxalidaceae *Oxalis corniculata* L.

det. R. Carter

locally common; stems creeping, corolla yellow

**20695a** [1] Onagraceae *Oenothera laciniata* Hill.

det. R. Carter

common, corolla yellow

**20696** [3] Brassicaceae *Raphanus raphanistrum* L.

det. R. Carter

locally common; corolla yellow

**20697** [3] Scrophulariaceae *Nuttallanthus texanus* (Scheele) D.A. Sutton [*Linaria texana* Schelle]

det. R. Carter

locally common; corolla lavender

**20698** [1] Polygonaceae *Rumex hastatulus* Baldw.

det. R. Carter

locally common

--degraded longleaf pine-wiregrass community, edge

**20699** [2] Loganiaceae *Gelsemium rankinii* Small

det. R. Carter

locally common vine; corolla yellow

**Richard Carter** with W. W. Baker

**31.20827N/84.81324W**

Mayhaw WMA, Willoughby Tract, 0.75 mi N jct. Springhead Rd and Griggs Lucille Rd, along E side of Springhead Rd

--disturbed edge of woods

with *Quercus virginiana*, *Q. nigra*, *Prunus serotina*, *Liquidambar styraciflua*, *Aralia spinosa*, *Osmanthus americanus*, *Smilax smallii*

**20700** [2] Violaceae *Viola sororia* Willd.

det. R. Carter

locally common; corolla blue

**20701** [1] Rosaceae *Rubus flagellaris* Willd.

det. R. Carter

low shrub with trailing stems, occasional, corolla white

**Richard Carter** with W. W. Baker

**31.20573N/84.81323W**

Mayhaw WMA, Willoughby Tract, 0.55 mi N jct. Springhill Rd and Griggs Lucille Rd, along E side of Springhead Rd

--low bluff grading into swamp forest

with *Quercus virginiana*, *Q. nigra*, *Q. hemisphaerica*, *Pinus taeda*, *Prunus serotina*, *Aralia spinosa*, *Aesculus pavia*, *Liquidambar styraciflua*, *Osmanthus americanus*, *Magnolia grandiflora*, *Lonicera sempervirens*

**20702** [4] Lauraceae *Sassafras albidum* (Nutt.) Nees

det. R. Carter

understory tree, occasional, twigs aromatic

**20703** [4] Oleaceae *Cartrema americana* (L.) Raf. [*Osmanthus americanus* (L.) Benth. & Hook. f. ex A. Gray]

det. R. Carter

tree 6 m tall, occasional; flowers white, fragrant

**20704** [1] Araliaceae *Aralia spinosa* L.

det. R. Carter

shrub, 4-5 m tall; locally common

**20705** [7] Sapindaceae[incl. Hippocastanaceae] *Aesculus pavia* L.

det. R. Carter

shrub, 2-4 m tall, locally common; corolla red

**20706** [1] Smilacaceae *Smilax bona-nox* L.

det. R. Carter

vine, locally common

**20707** [5] Cyperaceae *Carex striatula* Michx.

det. R. Carter

plants locally common along lower slope, cespitose

**20708** [2] Araceae *Arisaema triphyllum* (L.) Schott

det. R. Carter

locally common along base of bluff and edge of swamp

**20709** [2] Poaceae *Dichanthelium laxiflorum* (Lam.) Gould

det. R. Carter

locally common along base of bluff and edge of swamp; plants cespitose

**20710** [2] Cyperaceae *Carex leptalea* Wahl. var. *harperi* (Fern.) Weatherby & Griscom  
det. R. Carter

locally common, in elevated microsites of flooded swamp forest

**20711** [1] Dryopteridaceae *Onoclea sensibilis* L.

det. R. Carter

occasional to locally common on raised microsites of flooded swamp forest

**Richard Carter** with W. W. Baker

**31.19565N/84.81621W**

Mayhaw WMA, 0.16 mi W jct. Springhead Rd. and Griggs Lucille Rd., ca. 200 m S of Whitepond Church  
--degraded flatwoods depression

**20712** [1] Ericaceae *Rhododendron canescens* (Michx.) Sweet

det. R. Carter

shrub 1.75 m tall, occasional to locally common; flowers pale pink, fragrant

**5/7/2013**

**Richard Carter** with W. W. Baker

**U.S.A. Georgia: Worth County**

**31.42471N/83.85423W**

3.25 mi N Anderson City, Old Hwy. GA 33, Jeffords Tract

--longleaf pine - wiregrass savanna of high quality

**20727** [3] Poaceae *Danthonia sericea* Nutt.

det. R. Carter

locally common

**20728** [2] Rosaceae *Rubus cuneifolius* Pursh

det. R. Carter

plants occasional, flowers white

**20729** [2] Rosaceae *Rubus cuneifolius* Pursh

det. R. Carter

plants occasional, flowers white

--disturbed edge of longleaf pine - wiregrass savanna

**20730** [1] Asteraceae *Gamochaeta argyrinea* G.L. Nesom

det. R. Carter

infrequent

--longleaf pine - wiregrass savanna of high quality

**20731** [2] Anacardiaceae *Toxicodendron pubescens* Mill.

det. R. Carter

low shrub, 3-4 dm tall, occasional

**20732** [3] Ericaceae *Vaccinium stamineum* L.

det. R. Carter

0.5 m shrub, corolla white

**20733** [1] Dennstaedtiaceae *Pteridium aquilinum* (L.) Kuhn

det. R. Carter  
common

**Richard Carter** with W. W. Baker  
**U.S.A. Georgia: Macon County**  
**32.30822N/84.01309W**

Montezuma, Hamilton Rd., between E. Railroad St. and Airport Dr.  
--roadside and edge of woods

**20734 [2]** Asteraceae *Gamochaeta coarctata* (Willd.) Kerg.

det. R. Carter  
locally common

--edge of woods and roadside

**20735 [1]** Scrophulariaceae *Veronica hederifolia* L.

det. R. Carter  
plants locally common; stem weak, decumbent

--edge of woods

**20736 [1]** Caprifoliaceae *Lonicera japonica* Thunb.

det. R. Carter  
vine, locally abundant, corolla white, fragrant

**20737 [1]** Oleaceae *Ligustrum sinense* Lour.

det. R. Carter  
4 m shrub, locally common, corolla white

**20738 [4]** Moraceae *Morus alba* L.

det. R. Carter  
small tree

--roadside and edge of woods

**20739 [1]** Asteraceae *Hypochaeris chillensis* (Kunth) Britton

det. R. Carter  
locally common

--edge of woods

**20740 [2]** Juncaceae *Juncus tenuis* Willd.

det. R. Carter  
locally common

**20741 [3]** Smilacaceae *Smilax bona-nox* L.

det. R. Carter  
locally common

--mesic slope, edge of woods

with *Fagus grandifolia*, *Magnolia grandiflora*, *Quercus alba*, *Carya cordiformis*, *Q. hemisphaerica*,  
*Fraxinus americana*, *Acer floridanum*, *Ostrya virginiana*, *Asimina parviflora*, *Hamamelis virginiana*,  
*Aesculus pavia*, *Sideroxylon lanuginosum*, *Symplocos tinctoria*

**20742 [1]** Lygodiaceae *Lygodium japonicum* (Thunb.) Sw.

det. R. Carter

locally common, scandant

--mesic slope

with *Fagus grandifolia*, *Magnolia grandiflora*, *Quercus alba*, *Carya cordiformis*, *Q. hemisphaerica*, *Fraxinus americana*, *Acer floridanum*, *Ostrya virginiana*, *Asimina parviflora*, *Hamamelis virginiana*, *Aesculus pavia*, *Sideroxylon lanuginosum*, *Symplocos tinctoria*

**20743 [1]** Geraniaceae *Geranium carolinianum* L.

det. R. Carter  
occasional

**20744 [1]** Sapindaceae *Acer floridanum* (Chapm.) Pax

det. R. Carter  
windfall from large tree

**20745 [3]** Papaveraceae *Sanguinaria canadensis* L.

det. R. Carter  
occasional

**20746 [1]** Poaceae *Dichanthelium commutatum* (Schult.) Gould

det. R. Carter  
locally common

**20747 [3]** Cyperaceae *Carex radiata* (Wahl.) Small

det. R. Carter  
locally common in seepy area, cespitose

**20748 [3]** Sapindaceae *Acer floridanum* (Chapm.) Pax

det. R. Carter  
small understory tree, occasional, bark pale

**20749 [1]** Araceae *Arisaema triphyllum* (L.) Schott

det. R. Carter  
locally common in seepy area

**20750 [4]** Oleaceae *Fraxinus americana* L.

det. R. Carter  
large tree, locally common; branches from windfall

**20751 [1]** Aspleniaceae *Asplenium platyneuron* (L.) Britt. et al.

det. R. Carter  
common

**20751b [2]** Juglandaceae *Carya pallida* (Ashe) Engler & Graebner

det. R. Carter  
occasional tree

**20752 [3]** Aristolochiaceae *Hexastylis arifolia* (Michx.) Small

det. R. Carter  
occasional

**20753 [1]** Trilliaceae *Trillium maculatum* Raf.

det. R. Carter  
occasional

**20754 [1]** Orobanchaceae *Conopholis americana* (L.) Wallr.

det. R. Carter  
occasional, plants achlorophyllous

**20755** [4] Cyperaceae *Carex basiantha* Steud.  
det. R. Carter  
locally common

**20756** [2] Cyperaceae *Carex abscondita* Mack.  
det. R. Carter  
locally common

**20757** [1] Rubiaceae *Galium triflorum* Michx.  
det. R. Carter  
locally common, edge of woods

**20758** [2] Poaceae *Glyceria striata* (Lam.) Hitchc.  
det. R. Carter  
local in seepy area

**20759** [2] Dryopteridaceae *Polystichum acrostichoides* (Michx.) Schott  
det. R. Carter  
common

**20760** [4] Cyperaceae *Carex lurida* Wahl.  
det. R. Carter  
locally common in seepy area

**20761** [1] Smilacaceae *Smilax hugeri* (Small) J. B. Norton ex Pennell  
det. R. Carter  
occasional

**Richard Carter** with W. W. Baker  
**32.28044N/84.00344W**

Montezuma, 0.75 mi S jct. Travellers Rest Rd. and Vienna Rd. (Hwy. GA 49), triangular strip between hwy. and railroad  
--scraped sterile ruderal site  
with *Diospyros virginiana*, *Opuntia*

**20762** [2] Apiaceae *Spermolepis divaricata* (Walt.) Raf.  
det. R. Carter  
locally common

**20763** [1] Asteraceae *Pyrrhopappus carolinianus* (Walt.) DC.  
det. R. Carter  
locally common, heads yellow

**20764** [1] Asteraceae *Lactuca floridana* (L.) Gaertn.  
det. R. Carter  
locally common, plants with latex, corolla blue

**20765** [1] Asteraceae *Hypochaeris radicata* L.  
det. R. Carter  
locally common

**20766** [1] Caryophyllaceae *Silene antirrhina* L.  
det. R. Carter

locally common

**20767** [1] Campanulaceae *Triodanis perfoliata* (L.) Nieuwl.  
det. R. Carter  
locally common, corolla blue

**20768** [1] Valerianaceae *Valerianella radiata* (L.) Dufr.  
det. R. Carter  
locally common

**20769** [1] Scrophulariaceae *Nuttallanthus texana* (Scheele) Sutton  
det. R. Carter  
locally common, corolla blue

**20770** [1] Polygonaceae *Rumex hastatulus* Baldwin  
det. R. Carter  
locally common

**20771** [1] Asteraceae *Hymenopappus scabiosaeus* L'Her.  
det. R. Carter  
locally common

**20772** [1] Asteraceae *Gamochaeta pensylvanica* (Willd.) Cabrera  
det. R. Carter  
locally common

**20773** [1] Asteraceae *Gamochaeta argyrinea* G.L. Nesom  
det. R. Carter  
locally common

**20774** [1] Plantaginaceae *Plantago virginica* L.  
det. R. Carter  
locally common

**20775** [1] Plantaginaceae *Plantago wrightiana* Decne.  
det. R. Carter  
locally common

**20776** [2] Poaceae *Vulpia octoflora* (Walt.) Rydb. var. *hirtella* (Piper) Henr.  
det. R. Carter  
locally common

**20777** [1] Verbenaceae *Verbena officinalis* L. var. *halei* (Small) S.C. Barber  
det. R. Carter  
locally common, corolla purple

**20778** [2] Fabaceae *Vicia tetrasperma* (L.) Schreb.  
det. R. Carter  
locally common

5/8/2013

Richard Carter with W. W. Baker

32.3349N/84.0295W

ca. 2.4 airmi N Montezuma center, near W end of Crooks Landing Rd.  
--steep bluff along E bank of Flint River

**20779** [4] Nyssaceae *Nyssa sylvatica* Marshall  
det. R. Carter  
common tree

--ridge along E bank of Flint River

**20780** [4] Celtidaceae *Celtis laevigata* Willd.  
det. R. Carter  
shrub, common, 4 m tall, dbh 2.5 inches

--steep bluff along E bank of Flint River

**20781** [1] Apiaceae *Sanicula marilandica* L.  
det. R. Carter  
occasional

**20782** [4] Tiliaceae *Tilia americana* L. var. *heterophylla* (Vent.) Loudon  
det. R. Carter  
occasional tree

--ridge along E bank of Flint River

**20783** [7] Rutaceae *Ptelea trifoliata* L.  
det. R. Carter  
shrub, 2 m tall, locally common, foliage aromatic

--steep bluff along E bank of Flint River

**20784** [2] Rosaceae *Crataegus marshallii* Eggl.  
det. R. Carter  
occasional understory tree

**20785** [2] Sapotaceae *Sideroxylon lanuginosum* Michx. var. *lanuginosum*  
det. R. Carter  
occasional understory tree, dbh 3 inches

**20786** [4] Moraceae *Morus alba* L.  
det. R. Carter  
occasional tree

--low terrace along E bank of Flint River

**20787** [2] Celtidiaceae *Celtis laevigata* Willd.  
det. R. Carter  
occasional tree, dbh 12 inches

--steep bluff along E bank of Flint River

**20788** [6] Oleaceae *Fraxinus americana* L.  
det. R. Carter  
common tree

--ridge along E bank of Flint River, open ground

**20789** [1] Poaceae *Sphenopholis obtusata* (Michx.) Scribn.

det. R. Carter  
locally common

**20790** [1] Poaceae *Piptochaetium avenaceum* (L.) Parodi  
det. R. Carter  
locally common

**20791** [3] Cyperaceae *Carex albicans* Willd. ex Spreng. var. *australis* (L. H. Bailey) Rettig  
det. R. Carter  
forming large patches, local

--steep bluff along E bank of Flint River

**20792** [2] Cyperaceae *Carex basiantha* Steud.  
det. R. Carter  
occasional to locally common, cespitose

**20793** [2] Cyperaceae *Carex atlantica* L. H. Bailey subsp. *capillacea* (L. H. Bailey) Reznicek  
det. R. Carter  
occasional, cespitose

--ridge along E bank of Flint River, open ground

**20794** [1] Solanaceae *Physalis heterophylla* Nees  
det. R. Carter  
rare, local, corolla yellow

--steep bluff along E bank of Flint River

**20795** [5] Cyperaceae *Carex oxylepis* Torr. & Hook.  
det. R. Carter  
locally common, cespitose

**20796** [2] Poaceae *Poa autumnalis* Muhl. ex Ell.  
det. R. Carter  
occasional

**20797** [1] Fagaceae *Quercus alba* L.  
det. R. Carter  
common tree

**20798** [5] Fagaceae *Quercus shumardii* Buckley  
det. R. Carter  
common tree

**20799** [2] Fagaceae *Quercus rubra* L.  
det. R. Carter  
occasional tree

--steep bluff along E bank of Flint River, upper slope

**20800** [1] Fagaceae *Quercus montana* Willd.  
det. R. Carter  
common tree

--steep bluff along E bank of Flint River

**20801** [2] Cyperaceae *Carex blanda* Dewey  
det. R. Carter  
common

**20802** [1] Cyperaceae *Carex striatula* Michx.  
det. R. Carter  
common

**20803** [3] Cyperaceae *Carex cephalophora* Muhl. ex Willd.  
det. R. Carter  
common

**20804** [2] Poaceae *Festuca subverticillata* (Pers.) E.B. Alexeev  
det. R. Carter  
occasional

--ridge along E bank of Flint River

**20805** [1] Poaceae *Bromus pubescens* Muhl. ex Willd.  
det. R. Carter  
locally common

--steep bluff along E bank of Flint River

**20806** [1] Poaceae *Dichanthelium boscii* (Poir.) Gould & Clark  
det. R. Carter  
occasional

**20807** [1] Arecaceae *Rapidophyllum hystrix* (Pursh) H. Wendl. & Drude ex Drude  
det. R. Carter  
occasional understory shrub

**Richard Carter** with W. W. Baker

**U.S.A. Georgia: Sumter County**

**32.0582N/84.22723W**

Americus, jct. S. Lee St. and Burke St., Lee Street Methodist Church parking lot

**20808** [8] Celtidaceae *Celtis laevigata* Willd.  
det. R. Carter  
tree ca. 10 m tall, ca. 15 in dbh, bark with warty excresences

**5/24/2013**

**Richard Carter** with W. W. Baker, C. Louis

**U.S.A. Georgia: Thomas County**

**30.75542N/83.9952W**

4.12 mi S jct. Hwy. US 319 and Metcalf Rd., Arcadia Plantation, just inside S gate off Metcalf Rd.;  
--open, recently burned longleaf pine savanna, sandy loam ± disturbed;

**20844** [3] Acanthaceae *Ruellia ciliosa* Pursh  
det. R. Carter  
locally common, corolla blue.

**5/29/2013**

**Richard Carter** with W. W. Baker

**U.S.A. Georgia: Thomas County**

**30.7767N/84.03576W**

S of Thomasville by Hwy. US 319, Longpine Plantation;

--recently burned longleaf pine-wiregrass savanna, rolling topography, vic. 3 depressions;

**20898 [1]** Asteraceae *Lygodesmia aphylla* (Nutt.) DC.

det. R. Carter

locally common, heads pale blue.

**20899 [2]** Poaceae *Sporobolus junceus* (Beauv.) Kunth

det. R. Carter

locally common, cespitose.

**20900 [2]** Poaceae *Dichanthelium oligosanthes* (Schultes) Gould

det. R. Carter

occasional.

**20901 [1]** Cyperaceae *Rhynchospora plumosa* Ell.

det. R. Carter

occasional.

**20902 [1]** Rhamnaceae *Ceanothus americanus* L.

det. R. Carter

occasional, corolla white.

**20903 [1]** Acanthaceae *Dyschoriste oblongifolia* (Michx.) Kuntze

det. R. Carter

common, corolla blue with dark blue lines.

**20904 [1]** Polemoniaceae *Phlox pilosa* L.

det. R. Carter

locally common, flowers viscid, corolla blue.

**20905 [1]** Euphorbiaceae *Tragia urens* L.

det. R. Carter

occasional.

**20906 [1]** Polygalaceae *Asemeia grandiflora* (Walt.) Small

det. R. Carter

occasional.

**20907 [1]** Scrophulariaceae *Buchnera floridanum* Gand.

det. R. Carter

occasional, corolla blue.

**20908 [1]** Fabaceae *Rhynchosia tomentosa* (L.) Hook. & Arn. var. *tomentosa*

det. R. Carter

occasional to locally common, corolla yellow.

**20909 [1]** Fabaceae *Galactia erecta* (Walt.) Vail

det. R. Carter

occasional, stems erect, corolla white.

**20910 [2]** Fabaceae *Tephrosia virginiana* (L.) Pers.

det. R. Carter

locally common, standard white, wings and keel rose pink.

**20911 [1]** Fabaceae *Tephrosia spicata* (Walt.) T. & G.  
det. R. Carter  
common.

**20912 [2]** Asteraceae *Gamochaeta argyrinea* G.L. Nesom?  
det. R. Carter  
local and infrequent.

**20913 [2]** Asteraceae *Pterocaulon pycnostachyum* (Michx.) Ell.  
det. R. Carter  
occasional, heads white.

**20914 [1]** Liliaceae *Aletris obovata* Nash ex Small  
det. R. Carter  
occasional, perianth white.

**20915 [1]** Poaceae *Dichanthelium sphaerocarpon* (Ell.) Gould  
det. R. Carter  
occasional.

**20916 [1]** Poaceae *Dichanthelium oligosanthes* (Schultes) Gould  
det. R. Carter  
occasional.

**20917 [1]** Cyperaceae *Scleria ciliata* Michx. var. *elliottii* (Chapm.) Fern.  
det. R. Carter  
occasional to locally common.

**20918 [1]** Cyperaceae *Rhynchospora globularis* (Chapm.) Small var. *globularis*  
det. R. Carter  
common.

**Richard Carter** with W. W. Baker

**30.73933N/84.06506W**

S of Thomasville by Hwy. US 319, Longpine Plantation;  
--recently burned longleaf pine-wiregrass slope  
with *Pinus palustris*, *Quercus margarettae*, *Q. incana*, *Q. laevis*, *Carya tomentosa*, *Asimina longifolia*,  
*Toxicodendron pubescens*, *Aristida stricta*, *Pteridium aquilinum*, *Tephrosia virginiana*, *Onosmodium virginianum*;

**20919 [1]** Lamiaceae *Scutellaria multiglandulosa* (Kearney) Small ex R.M.Harper  
det. R. Carter  
occasional, corolla pale blue to nearly white.

**20920 [2]** Fabaceae *Mimosa microphylla* Dryander  
det. R. Carter  
common clambering herb, heads pink.

**20921 [1]** Poaceae *Dichanthelium ravenelii* (Scribn. & Merr.) Gould  
det. R. Carter  
occasional to common.

**20922 [2]** Asteraceae *Tetragonotheca helianthoides* L.  
det. R. Carter

locally common, heads yellow.

**Richard Carter** with W. W. Baker

**U.S.A. Georgia: Grady County**

**30.74334N/84.0889W**

S of Thomasville by Hwy. US 319, Longpine Plantation;  
--recently burned sloping longleaf pine-wiregrass savanna, ± disturbed site;

**20923 [1]** Polygalaceae *Polygala polygama* Walter

det. R. Carter

occasional, flowers pink to purple.

**20924 [1]** Polygalaceae *Polygala incarnata* L.

det. R. Carter

occasional, flowers purple.

**20925 [1]** Euphorbiaceae *Tragia urens* L.

det. R. Carter

occasional.

**20926 [2]** Fabaceae *Rhynchosia reniformis* DC.

det. R. Carter

common.

**20927 [1]** Orchidaceae *Spiranthes eatonii* Ames ex P.M. Brown

det. R. Carter

infrequent, flowers with greenish cast.

**20928 [3]** Fabaceae *Orbexilum psoraliooides* (Walt.) Vincent [*Psoralea psoraliooides* (Walt.) Cory]

det. R. Carter

infrequent and local, stems decumbent, flowers blue.

**Richard Carter** with W. W. Baker

**30.73972N/84.07278W**

S of Thomasville by Hwy. US 319, Longpine Plantation;

--recently burned sloping longleaf pine-wiregrass savanna, ± disturbed site;

**Note: Geomys burrows observed**

**20929 [1]** Asclepiadaceae *Asclepias amplexicaulis* J.E. Smith

det. R. Carter

infrequent.

**20930 [1]** Asclepiadaceae *Asclepias tuberosa* L.

det. R. Carter

common, flowers orange to red.

**20931 [1]** Euphorbiaceae *Stillingia sylvatica* Gard. ex L.

det. R. Carter

common.

**Richard Carter** with W. W. Baker

**30.72898N/84.05083W**

S of Thomasville by Hwy. US 319, Longpine Plantation;

--cut-over mixed pine-hardwood slope,

with *Pinus palustris*, *P. echinatus*, *Carya tomentosa*, *Aesculus pavia*, *Cercis canadensis*, *Viburnum rufidulum*, *Rhus copallina*, *Diospyros virginiana*, *Cornus florida*, *Chionanthus virginicus*, *Quercus hemisphaerica*, *Prunus serotina*

**30932** [4] Acanthaceae *Ruellia caroliniensis* (J.F. Gmel.) Steud.

det. R. Carter

locally common, corolla blue.

**20933** [2] Fabaceae *Erythrina herbacea* L.

det. R. Carter

occasional to locally common, flowers red.

**20934** [4] Pinaceae *Pinus echinata* Mill.

det. R. Carter

tree, 20 cm dbh, 15 m tall, common.

**6/1/2013**

**Richard Carter** with Phillip Lowe, Josh Steele

**U.S.A. Georgia: Thomas County**

**30.83666N/84.01808W**

Greenwood Plantation, W of Pinetree Blvd., S of railroad, ca. 1 mi SSE of headquarters;

--gently rolling longleaf pine - wiregrass savanna,

with *Pinus palustris*, *Aristida stricta*, *Pteridium aquilinum*, *Vaccinium stamineum*, *Quercus pumila*, *Asimina longifolia spatulata*, *Rhus copallina*, *Dyschoriste oblongifolia*, *Aster adnatus*, *Rhynchosia tomentosa*

**20954** [1] Asteraceae *Erigeron strigosus* Muhl. ex Willd.

det. R. Carter

common, rays white, disk yellow.

**20955** [3] Annonaceae *Asimina longifolia* Kral var. *spatulata* Kral

det. R. Carter

1 m shrub, common.

**20956** [1] Fabaceae *Tephrosia spicata* (Walt.) T. & G.

det. R. Carter

common.

**20957** [2] Fabaceae *Crotalaria purshii* DC.

det. R. Carter

occasional.

**20958** [1] Euphorbiaceae *Tragia urens* L.

det. R. Carter

occasional.

**20959** [1] Fabaceae *Rhynchosia tomentosa* (L.) Hook. & Arn. var. *tomentosa*

det. R. Carter

occasional to locally common, corolla yellow.

**20960** [1] Asteraceae *Oclemena reticulata* (Pursh) G.L. Nesom

det. R. Carter

locally common along drain, rays white, head yellow.

**20961** [2] Poaceae *Dichanthelium dichotomum* (L.) Gould var. *dichotomum*

det. R. Carter

locally common.

**20962 [1]** Asteraceae *Pterocaulon pycnostachyum* (Michx.) Hill  
det. R. Carter  
occasional, heads white.

**20963 [1]** Fabaceae *Crotalaria rotundifolia* J.F. Gmel.  
det. R. Carter  
common, corolla yellow.

**20964 [1]** Fabaceae *Stylosanthes biflora* (L.) Britt. et al.  
det. R. Carter  
common, corolla yellow.

**20965 [1]** Polygalaceae *Asemeia grandiflora* (Walt.) Small  
det. R. Carter  
occasional, flowers purplish pink.

**20966 [1]** Hypericaceae *Hypericum suffruticosum* W.P. Adams & N. Robs.  
det. R. Carter  
common, petals yellow, falling readily.

**20967 [1]** Scrophulariaceae *Buchnera floridanum* Gand.  
det. R. Carter  
occasional, corolla blue.

**20968 [1]** Lamiaceae *Scutellaria integrifolia* L.  
det. R. Carter  
occasional.

**20969 [1]** Polemoniaceae *Phlox floridana* Benth.  
det. R. Carter  
common.

**20970 [1]** Cyperaceae *Scleria ciliata* Michx. var. *elliottii* (Chapm.) Fern.  
det. R. Carter  
common.

**20971 [1]** Liliaceae *Aletris obovata* Nash ex Small  
det. R. Carter  
common, perianth white.

**20972 [2]** Cyperaceae *Fimbristylis puberula* (Michx.) Vahl  
det. R. Carter  
occasional, cespitose.

**20973 [1]** Cyperaceae *Rhynchospora*  
det. R. Carter  
occasional.

**Richard Carter** with Phillip Lowe, Josh Steele  
**30.83491N/84.0149W**

Greenwood Plantation, W of Pinetree Blvd., S of railroad, ca. 1.2 airmi SSE of headquarters;  
--disturbed sandy loam of degraded hammock, under *Quercus virginiana*;

**20974 [2]** Cyperaceae *Carex complanata* Torr. & Hook.

det. R. Carter  
locally common.

**20975 [2]** Polygalaceae *Polygala polygama* Walter  
det. R. Carter  
occasional, flowers pinkish.

**20976 [1]** Lamiaceae *Prunella vulgaris* L.  
det. R. Carter  
locally common.

**20977 [2]** Poaceae *Dichanthelium laxiflorum* (Lam.) Gould  
det. R. Carter  
locally common, cespitose.

**20978 [1]** Rubiaceae *Galium circaeans* Michx.  
det. R. Carter  
plants occasional, local; corolla maroon.

**20979 [2]** Poaceae *Dichanthelium ravenelii* (Scribn. & Merr.) Gould  
det. R. Carter  
locally common.

**6/18/2013**  
**Richard Carter** with W. W. Baker, M. Hodges  
**U.S.A. Georgia: Worth County**  
**31.4434N/83.96994W**  
 2.9 airmiles N Bridgeboro (heading 7.76°)  
 --mesic woods along creek  
 with *Quercus shumardii*, *Q. michauxii*, *Q. falcata*, *Q. nigra*, *Q. stellata*, *Carya glabra*, *C. tomentosa*, *Pinus palustris*, *Liquidambar styraciflua*, *Cercis canadensis*, *Chionanthus virginicus*, *Crataegus*

**20980 [1]** Ranunculus *Thalictrum cooleyi* Ahles?  
det. R. Carter  
plants rare and local, 3 carpellate and 6 staminate individuals observed

**20981 [1]** Lamiaceae *Pycnanthemum tenuifolium* Schrad.  
det. R. Carter  
occasional

**20982 [1]** Rosaceae *Agrimonia incisa* Torr. & Gray  
det. R. Carter  
occasional

**20983 [1]** Apocynaceae *Matelea floridana* (Vail) Woodson  
det. R. Carter  
plants scandent, latex present; corolla and corona blackish maroon

**20984 [2]** Fabaceae *Hylodesmum pauciflorum* (Nutt.) Ohashi & R.R. Mill. [*Desmodium pauciflorum* (Nutt.) DC.]  
det. R. Carter  
occasional, flowers white

**20985 [1]** Apiaceae *Sanicula canadensis* L.  
det. R. Carter

locally common

**20986** [1] Poaceae *Elymus virginicus* L.

det. R. Carter

locally common

**20987** [3] Poaceae *Dichanthelium boscii* (Poir.) Gould & Clarke

det. R. Carter

locally common

**6/19/2013**

**Richard Carter** with W. W. Baker

**31.31997N/83.72546W**

4.17 airmiles NW Norman Park (heading 327.16°), "Quail Ridge"

--well managed longleaf pine-wiregrass savanna

**20988** [1] Fabaceae *Galactia erecta* (Walter) Vail

det. R. Carter

occasional to locally common; corolla white

--well managed longleaf pine-wiregrass savanna, seep

**20989** [1] Campanulaceae *Lobelia nuttallii* Schult.

det. R. Carter

occasional; corolla blue

--well managed longleaf pine-wiregrass savanna

**20990** [1] Orchidaceae *Spiranthes tuberosa* Raf.

det. R. Carter

infrequent, perianth white

**20991** [1] Fabaceae *Orbexilum psoralioides* (Walt.) Vincent [*Psoralea psoralioides* (Walt.) Cory]

det. R. Carter

occasional; corolla purplish blue, bracts bluish green

**20992** [1] Lamiaceae *Pycnanthemum flexuosum* (Walt.) Britt. et al.

det. R. Carter

locally common

**20993** [1] Lamiaceae *Scutellaria multiglandulosa* (Kearney) Small ex R.M. Harper

det. R. Carter

locally common, corolla blue and white

**20994** [1] Lamiaceae *Physostegia purpurea* (Walt.) S.F. Blake

det. R. Carter

locally common, corolla pale purplish blue

**20995** [3] Campanulaceae *Lobelia flaccidifolia* Small

det. R. Carter

locally common, corolla blue

**20996** [3] Poaceae *Paspalum laeve* Michx.

det. R. Carter

occasional to locally common

**20997** [3] Cyperaceae *Rhynchospora ellottii* A. Dietr.  
det. R. Carter  
locally common in seepage bog

**20998** [1] Ericaceae *Kalmia hirsuta* Walter  
det. R. Carter  
occasional, corolla pink

Quail Ridge, 31.32193N 83.72257W  
--seepage bog along SE side of bay creek  
*Habenaria nivea* observed, ca. 250 plants in flower

**Richard Carter** with W. W. Baker  
**31.46994N/83.82685W**  
S of Sylvester, E side Hwy. GA 33, 1.5 mi N jct. Hwy. GA 33 and Dothit Rd., Southern Woods Plantation  
--recently burned longleaf pine wiregrass savanna, ecotone upslope from bay creek

**20999** [3] Apiaceae *Eryngium yuccifolium* Michx.  
det. R. Carter  
occasional to locally common

**21000** [3] Asteraceae *Coreopsis delphinifolia* Lam.  
det. R. Carter  
occasional, ray and disk corollas yellow

**6/20/2013**  
**Richard Carter** with W. W. Baker  
**U.S.A. Georgia: Colquitt County**  
**31.12879N/83.84204W**  
SW of Moultrie by Lower Meigs Rd., NW quadrant of jct. Lower Meigs Rd. and Tree Farm Rd., "The Hill"  
--upland sandy slope along drain, recently burned  
with *Pinus palustris*, *Aristida stricta*

**21002** [1] Euphorbiaceae *Stillingia sylvatica* L.  
det. R. Carter  
aerial stems from woody rootstock, exuding latex; plants occasional

**21003** [3] Fabaceae *Tephrosia virginiana* (L.) Pers.  
det. R. Carter  
multiple aerial stems from stout taproot; plants locally common

**21004** [1] Acanthaceae *Ruellia carolinensis* (J.F. Gmel.) Steud.  
det. R. Carter  
occasional, corolla blue

**21005** [3] Asteraceae *Coreopsis delphinifolia* Lam.  
det. R. Carter  
heads yellow; plants clonal, locally common

**21006** [1] Rubiaceae *Galium pilosum* Aiton  
det. R. Carter  
plants locally common, stems weak and reclining on adjacent vegetation

**21007** [1] Poaceae *Dichanthelium oligosanthes* (Schult.) Gould  
det. R. Carter

occasional

**21008** [1] Convolvulaceae *Stylisma patens* (Desr.) Myint  
det. R. Carter  
prostrate vine, corolla white

**21009** [1] Asteraceae *Rudbeckia hirta* L.  
det. R. Carter  
plants occasional, rays yellow, disk black

--seepage slope ecotone along drain, recently burned

**21010** [1] Juncaceae *Juncus dichotomus* Ell.  
det. R. Carter  
plants cespitose, occasional

**21011** [1] Lamiaceae *Scutellaria elliptica* Muhl.  
det. R. Carter  
corolla blue, with white markings; plants occasional

**21012** [1] Nartheciaceae *Aletris aurea* Walt.  
det. R. Carter  
perianth yellow; plants occasional

**21013** [1] Lamiaceae *Scutellaria racemosa* Pers.  
det. R. Carter  
locally common

**21014** [2] Lamiaceae *Callicarpa americana* L.  
det. R. Carter  
plants 1-2 m tall, common

--seepage slope ecotone along drain, recently burned

**21015** [1] Cyrillaceae *Cyrilla racemiflora* L.  
det. R. Carter  
small tree, locally common in drain

**21015a** [2] Violaceae *Viola primuliflora*  
det. R. Carter  
locally common

**21016** [2] Cyperaceae *Eleocharis tuberculosa* (Michx.) Roem. & Schult.  
det. R. Carter  
locally common, cespitose

**21017** [1] Orchidaceae *Calopogon tuberosus* (L.) Britt. et al.  
det. R. Carter  
rare

**21018** [1] Polygalaceae *Polygala lutea* L.  
det. R. Carter  
locally common, flowers orange

**21019** [1] Cyperaceae *Carex complanata* Torr. & Hook.  
det. R. Carter

occasional

**21020** [2] Poaceae *Dichanthelium dichotomum* (L.) Gould  
det. R. Carter  
locally common

**21021** [2] Poaceae *Sacciolepis indica* (L.) Chase  
det. R. Carter  
locally common

**21022** [1] Sarraceniaceae *Sarracenia flava* L.  
det. R. Carter  
locally common

**21023** [1] Sarraceniaceae *Sarracenia minor* Walt.  
det. R. Carter  
locally common

**21024** [2] Cyperaceae *Carex lurida* Wahlenb.  
det. R. Carter  
locally common

**21025** [1] Scrophulariaceae *Gratiola pilosa* Michx.  
det. R. Carter  
occasional, corolla white

**21026** [1] Xyridaceae *Xyris ambigua* Beyr. ex Kunth  
det. R. Carter  
locally common

**21027** [1] Xyridaceae *Xyris baldwiniana* Schult.  
det. R. Carter  
locally common, cespitose, flowers yellow

**21028** [1] Xyridaceae *Xyris baldwiniana* Schult.  
det. R. Carter  
locally common, cespitose, flowers yellow

**21029** [2] Cyperaceae *Rhynchospora inexpansa* (Michx.) Vahl  
det. R. Carter  
locally common

**21030** [1] Poaceae *Dichanthelium dichotomum* (L.) Gould  
det. R. Carter  
locally common

**21031** [1] Eriocaulaceae *Lachnocaulon anceps* (Walt.) Morong  
det. R. Carter  
locally common

**21032** [1] Juncaceae *Juncus marginatus* Rostk.  
det. R. Carter  
occasional

**21033** [1] Poaceae *Dichanthelium strigosum* (Muhl. ex Ell.) Freckm.  
det. R. Carter

occasional

**21034** [1] Cyperaceae *Carex longii* Mack.

det. R. Carter  
locally common

**21035** [1] Cyperaceae *Rhynchospora compressa* J. Carey ex Chapm.

det. R. Carter  
locally common

**21036** [1] Poaceae *Dichanthelium oligosanthes* (Schult.) Gould

det. R. Carter  
occasional

**21037** [1] Eriocaulaceae *Syngonanthus flavidulus* (Michx.) Ruhl.

det. R. Carter  
locally common

**21038** [1] Gentianaceae *Sabatia difformis* (L.) Druce

det. R. Carter  
local, occasional

**21039** [1] Asteraceae *Erigeron vernus* (L.) Torr. & A. Gray

det. R. Carter  
locally common

**21040** [1] Campanulaceae *Lobelia nuttallii* Schult.

det. R. Carter  
occasional, corolla blue

**21041** [4] Cyperaceae *Scleria distans* Poir.

det. R. Carter  
locally common

**21042** [1] Cyperaceae *Scleria ciliata* Michx.

det. R. Carter  
locally common

**21043** [2] Poaceae *Dichanthelium ensifolium* (Baldw. ex Ell.) Gould var. *unciphyllum* (Trin.) Hans. & Wunderl.

det. R. Carter  
locally common

**21044** [1] Droseraceae *Drosera capillaris* Poir.

det. R. Carter  
locally common

**21045** [2] Hypoxidaceae *Hypoxis curtissii* Rose

det. R. Carter  
local, occasional

**21046** [1] Cyperaceae *Rhynchospora globularis* (Chapm.) Small var. *globularis*

det. R. Carter  
locally common

**21047** [2] Juncaceae *Juncus elliottii* Chapm.

det. R. Carter  
occasional

--recently burned upland longleaf pine-wiregrass savanna, sandy soil

**21048 [2]** Asteraceae *Silphium asteriscus* L.

det. R. Carter  
heads yellow, plants occasional

**21049 [1]** Asteraceae *Pterocaulon pycnostachyum* (Michx.) Ell.

det. R. Carter  
plants occasional

**21050 [1]** Euphorbiaceae *Tragia smallii* Shinners

det. R. Carter  
plant with stinging hairs, occasional

**21051 [1]** Asteraceae *Gamochaeta purpurea* (L.) Cabrera

det. R. Carter  
occasional

**21052 [1]** Cyperaceae *Cyperus echinatus* (L.) A. Wood

det. R. Carter  
occasional

**21053 [1]** Cyperaceae *Cyperus filiculmis* Vahl

det. R. Carter  
occasional

**21054 [1]** Apocynaceae *Asclepias cinerea* Walt.

det. R. Carter  
occasional

**21055 [1]** Fabaceae *Tephrosia spicata* (Walt.) Torr. & A. Gray

det. R. Carter  
occasional

**21056 [1]** Euphorbiaceae *Euphorbia curtisii* Engelm. ex Chapm.

det. R. Carter  
occasional

**21057 [1]** Fabaceae *Orbexilum psoraliooides* (Walt.) Vincent

det. R. Carter  
occasional, stems reclining

**Richard Carter** with W. W. Baker

**31.12815N/83.84332W**

SW of Moultrie by Lower Meigs Rd., NW quadrant of jct. Lower Meigs Rd. and Tree Farm Rd., "The Hill"  
--recently burned, open sandy longleaf pine-wiregrass savanna  
with *Pinus palustris*, *Aristida stricta*, *Tephrosia virginiana*, *Quercus pumila*, *Pteridium aquilinum*, *Licania michauxii*

**21058 [1]** Apocynaceae *Asclepias tuberosa* L.

det. R. Carter  
occasional, corolla orange, latex absent

**21059** [1] Annonaceae *Asimina longifolia* Kral

det. R. Carter

1 m shrub, occasional, petals white, with purplish bases

**21060** [1] Campanulaceae *Wahlenbergia marginata* (Thunb.) DC.

det. R. Carter

occasional, corolla blue

**21061** [1] Polygalaceae *Asemeia grandiflora* (Walt.) Small

det. R. Carter

plants occasional, roots aromatic

**21062** [2] Asteraceae *Lygodesmia aphylla* (Nutt.) DC.

det. R. Carter

occasional to locally common, heads pale blue

**21063** [2] Chrysobalanaceae *Licania michauxii* Prance

det. R. Carter

low clonal shrub, occasional to locally common

**21064** [2] Convolvulaceae *Ipomoea pandurata* (L.) G. Meyer

det. R. Carter

prostrate vine, corolla white

**21065** [1] Campanulaceae *Lobelia nuttallii* Schult.

det. R. Carter

occasional, corolla blue

**21066** [1] Gentianaceae *Sabatia quadrangula* Wilbur

det. R. Carter

occasional

**21067** [1] Eriocaulaceae *Gaylussacia nana* (A. Gray) Small

det. R. Carter

low clonal shrub, occasional to locally common

**21068** [1] Aquifoliaceae *Ilex glabra* (L.) A. Gray

det. R. Carter

shrub ca. 1 m tall, common

**21069** [3] Rosaceae *Crataegus uniflora* Münchh.

det. R. Carter

shrub ca. 1 m tall, occasional

**21070** [1] Euphorbiaceae *Tragia urens* L.

det. R. Carter

occasional, plants with stinging hairs

**21071** [3] Fabaceae *Lespedeza bicolor* Turcz.

det. R. Carter

plants ca. 2 m tall, locally common

**Richard Carter** with W. W. Baker

**31.12741N/83.84383W**

SW of Moultrie by Lower Meigs Rd., NW quadrant of jct. Lower Meigs Rd. and Tree Farm Rd., "The Hill"

--ecotone between longleaf pine-wiregrass savanna and drain, one-year rough

**21072** [2] Gentianaceae *Sabatia campanulata* (L.) Torr.

det. R. Carter  
occasional

**21073** [1] Linaceae *Linum striatum* Walt.

det. R. Carter  
occasional

**21074** [3] Lamiaceae *Pycnanthemum flexuosum* (Walt.) Britt. et al.

det. R. Carter  
occasional to locally common

**21075** [2] Cyperaceae *Rhynchospora ellottii* A. Dietr.

det. R. Carter  
occasional

**21076** [1] Campanulaceae *Lobelia puberula* Michx.

det. R. Carter  
occasional, corolla blue

--bay creek bottom

**21077** [1] Asteraceae *Hypochaeris chillensis* (Kunth) Britt.

det. R. Carter  
occasional

**21078** [1] Cyperaceae *Carex intumescens* Rudge

det. R. Carter  
occasional to locally common

**21079** [1] Cyperaceae *Carex lonchocarpa* Willd. ex Spreng.

det. R. Carter  
occasional to locally common

**21080** [1] Melianthaceae *Veratrum virginicum* (L.) Aiton f.

det. R. Carter  
infrequent, but locally common

**Richard Carter** with W. W. Baker

**31.12663N/83.84339W**

SW of Moultrie by Lower Meigs Rd., NW quadrant of jct. Lower Meigs Rd. and Tree Farm Rd., "The Hill"  
--recently burned longleaf pine-wiregrass savanna

**21081** [1] Scrophulariaceae *Penstemon multiflorus* (Benth.) Chapm. ex Small

det. R. Carter  
occasional

**21082** [1] Euphorbiaceae *Euphorbia pubentissima* Michx.

det. R. Carter  
occasional

**21083** [1] Cyperaceae *Scleria pauciflora* Muhl. ex Willd. var. *caroliniana* A. Wood

det. R. Carter  
occasional

**21084** [2] Fabaceae *Baptisia lanceolata* (Walt.) Ell.  
det. R. Carter  
occasional to locally common

**21085** [1] Apiaceae *Eryngium yuccifolium* Michx.  
det. R. Carter  
occasional

--edge of drain in recently burned longleaf pine-wiregrass savanna

**21086** [1] Styracaceae *Styrax americanus* Lam.  
det. R. Carter  
shrub 1-2 m tall, occasional

**21087** [1] Melastomataceae *Rhexia mariana* L. var. *marijuana*  
det. R. Carter  
locally common

**21088** [1] Melastomataceae *Rhexia nashii* Small  
det. R. Carter  
locally common

**Richard Carter**  
**U.S.A. Georgia: Thomas County**  
**31.00977N/83.85909W**  
E side of Coolidge, along Hwy. GA 188, near jct. Keith Way and Hwy. GA 188  
--mowed roadside and backslope along N side of hwy.  
with *Eremochloa ophiuroides*, *Paspalum notatum*, *Cynodon dactylon*

**21089** [1] Asteraceae *Gamochaeta argyrinea* G.L. Nesom  
det. R. Carter  
locally common

**7/10/2013**  
**Richard Carter** with W. W. Baker  
**U.S.A. Georgia: Thomas County**  
**30.74584N/84.03033W**  
Elsoma Plantation, SSW of Thomasville along E side Springhill Rd.  
--longleafpine-wiregrass savanna, slope grading into cypress pond

**21104** [3] Hypericaceae *Hypericum galiooides* Lam.  
det. R. Carter  
locally common in small, shallow sink

**21105** [2] Cyperaceae *Rhynchospora inundata* (Oakes) Fern.  
det. R. Carter  
locally common, edge of pond

**21106** [2] Cyperaceae *Rhynchospora filifolia* Gray  
det. R. Carter  
locally common, edge of pond

**21107** [2] Cyperaceae *Carex verrucosa* Muhl.  
det. R. Carter  
occasional

**21108** [3] Asteraceae *Pluchea baccharis* (P. Miller) Pruski [*Pluchea rosea* Godfrey]  
 det. R. Carter  
 locally common, edge of pond; heads pink

**21109** [2] Poaceae *Leersia hexandra* Swartz  
 det. R. Carter  
 locally common, edge of pond

**21110** [2] Ericaceae *Lyonia mariana* (L.) D. Don  
 det. R. Carter  
 low shrub, ca. 5 dm high, local

**21111** [1] Hypericaceae *Hypericum myrtifolium* Lam.  
 det. R. Carter  
 edge of pond, locally common; corolla yellow

**21112** [2] Tofieldiaceae *Triantha racemosa* (Walt.) Small [*Tofieldia racemosa* (Walt.) Britt. et al.]  
 det. R. Carter  
 locally common, perianth white

**21113** [2] Linaceae *Linum floridanum* (Planch.) Trel. var. *floridanum*  
 det. R. Carter  
 corolla yellow

**21114** [2] Gentianaceae *Sabatia campanulata* (L.) Torr.  
 det. R. Carter  
 occasional to locally common, corolla pink

**Richard Carter** with W. W. Baker  
**30.74365N/84.01954W**  
 Elsoma Plantation, SSW of Thomasville, E of Springhill Rd.  
 --seepage bog in longleafpine-wiregrass savanna  
 with *Salix humilis*, *Ctenium aromaticum*, *Hypericum myrtifolium*, *Rhexia alifanus*, *R. mariana*, *Eupatorium rotundifolium*, *Sarracenia minor*, *Aster reticulatus*, *Hibiscus aculeatus*

**21115** [2] Orchidaceae *Platanthera cristata* (Michx.) Lindl.  
 det. R. Carter  
 local; corolla yellow

**Richard Carter** with W. W. Baker  
**30.74457N/84.01931W**  
 Elsoma Plantation, SSW of Thomasville, E of Springhill Rd.  
 --low ridge, longleafpine-wiregrass savanna  
 with *Pinus palustris*, *Quercus pumila*, *Q. margarettae*, *Carya tomentosa*, *Aristida stricta*, *Pteridium aquilinum*, *Eryngium yuccifolium*

**21116** [1] Fabaceae *Clitoria mariana* L.  
 det. R. Carter  
 occasional, stems ±erect

**21117** [1] Rhamnaceae *Ceanothus americanus* L.  
 det. R. Carter  
 occasional

**21118** [1] Fabaceae *Indigofera caroliniana* P. Miller  
 det. R. Carter

occasional

**21119 [1]** Asteraceae *Rudbeckia hirta* L.

det. R. Carter

occasional; rays yellow, disk black

**21120 [2]** Asteraceae *Verbesina aristata* (Ell.) Heller

det. R. Carter

common; ray and disk corollas yellow

**21121 [2]** Fabaceae *Stylosanthes biflora* (L.) Britt. et al.

det. R. Carter

occasional; corolla yellow

**21122 [2]** Asteraceae *Silphium asteriscus* L.

det. R. Carter

occasional; ray corollas yellow, disk corollas yellowish green

**21123 [5]** Asteraceae *Tetragonotheca helianthoides* L.

det. R. Carter

occasional; ray and disk corollas yellow ±with reddish brown tint

**21124 [4]** Cyperaceae *Cyperus filiculmis* Vahl

det. R. Carter

occasional to locally common

**21125 [2]** Cyperaceae *Cyperus*

det. R. Carter

occasional

**Richard Carter** with W. W. Baker

**30.7419N/84.01505W**

Elsoma Plantation, SSW of Thomasville, E of Springhill Rd.

--mixed pine-hardwood drain

with *Pinus taeda*, *Quercus nigra*, *Q. virginiana*, *Q. stellata*, *Carya tomentosa*, *Nyssa biflora*, *Liquidambar styraciflua*, *Diospyros virginiana*, *Aesculus pavia*, *Sebastiania fruticosa*, *Callicarpa americana*, *Erythrina herbacea*, *Campsis radicans*

**21126 [2]** Euphorbiaceae *Ditrysinia fruticosa* (W. Bartr.) Govaerts & Frodin [*Sebastiania fruticosa* (W.

Bartr.) Fern.]

det. R. Carter

1.5 - 2 m shrub, with latex; locally common

**Richard Carter** with W. W. Baker

**30.71373N/84.01691W**

Elsoma Plantation, SSW of Thomasville, E of Springhill Rd.

--mixed pine-hardwood slope

with *Pinus echinata*

**21127 [2]** Poaceae *Tripsacum dactyloides* (L.) L.

det. R. Carter

**21128 [2]** Gentianaceae *Sabatia angularis* (L.) Pursh

det. R. Carter

locally common; corolla pink

**21129 [4]** Asteraceae *Coreopsis tripteris* L.

det. R. Carter

plants locally common; rays yellow, disk purplish black

--mesic hammock along drain

with *Quercus alba*, *Q. stellata*, *Q. nigra*, *Carya glabra*, *C. tomentosa*, *Morus rubra*, *Cornus florida*, *Chionanthus virginicus*, *Asimina parviflora*, *Aralia spinosa*, *Callicarpa americana*

**21130 [3]** Smilacaceae *Smilax tamnoides* L.

det. R. Carter

**21131 [1]** Fabaceae *Clitoria mariana* L.

det. R. Carter

**21132 [4]** Poaceae *Dichanthelium boscii* (Poir.) Gould & C.A. Clark

det. R. Carter

**21133 [5]** Acanthaceae *Elytraria caroliniensis* (J.F. Gmel.) Pursh var. *caroliniensis*

det. R. Carter

locally common; corolla white

**21134 [2]** Sapindaceae[incl. Hippocastanaceae] *Aesculus pavia* L.

det. R. Carter

local shrub, 2 m high

**21135 [3]** Asteraceae *Smallanthus uvedalia* (L.) Mack. ex Small [*Polymnia uvedalia* (L.) L.]

det. R. Carter

local; ray and disk corollas yellow

**Richard Carter**

**U.S.A. Georgia: Brooks County**

**30.78879N/83.49976W**

E of Quitman, along S side Hwy. US 84, 0.3 mi E jct. Hwy. US 84 and Devane Rd.

--seepage slope

**21136 [2]** Tofieldiaceae *Triantha racemosa* (Walt.) Small [*Tofieldia racemosa* (Walt.) Britt. et al.]

det. R. Carter

plants locally common; voucher for molecular study

**7/11/2013**

**Richard Carter** with W. W. Baker

**U.S.A. Georgia: Decatur County**

Silver Lake Wildlife Management Area, including "Hog Farm"

--longleaf pine-wiregrass savanna

No vouchers collected.

**7/16/2013**

**Richard Carter** with W. W. Baker

**U.S.A. Georgia: Thomas County**

**30.77546N/84.00259W**

SSW of Thomasville, W of Metcalf Rd., Arcadia Plantation

--longleaf pine-wiregrass savanna, recently selectively logged

**21137 [1]** Gentianaceae *Sabatia angularis* (L.) Pursh

det. R. Carter

locally common, corolla rose pink

**Richard Carter** with W. W. Baker

**30.79023N/84.00305W**

SSW of Thomasville, W of Metcalf Rd., Arcadia Plantation

--hardwood drain

with *Magnolia virginiana*, *Nyssa biflora*, *Quercus nigra*, *Liquidambar styraciflua*, *Carya glabra*, *Quercus alba*, *Pinckneya bracteata*, *Toxicodendron vernix*, *Rhododendron canescens*, *Myrica cerifera*, *Viburnum nudum*, *Leucothoe axillaris*, *Arundinaria tecta*, *Boehmeria cylindrica*, *Woodwardia areolata*, *Sanicula*, *Thelypteris*, *Chasmanthium*, *Sparganium americanum*, *Platanthera*, *Apteria*, *Pallavicinia lyellii*

**21138 [2]** Cyperaceae *Rhynchospora leptocarpa* Chapm.

det. R. Carter

local, occasional; stems reclining

**21139 [2]** Burmanniaceae *Apteria aphylla* (Nutt.) Barnh. ex Small

det. R. Carter

occasional to locally common; corolla violet

**21140 [2]** Orchidaceae *Platanthera flava* (L.) Lindl.

det. R. Carter

occasional and local; corolla green

**21141 [1]** Apiaceae *Sanicula canadensis* L.

det. R. Carter

**21142 [3]** Myrsinaceae *Ardisia crenata* Sims

det. R. Carter

shrub ca. 1 m tall, locally common, invasive; corolla white, fruit red

7/17/2013

**Richard Carter** with W. W. Baker

**U.S.A. Georgia: Colquitt County**

**31.29149N/83.8867W**

Doerun Pitcherplant Bog Natural Area, 2.65 airmiles SE Doerun town center (heading 137.34°), E of Hwy. GA 133, S of Hagen Still Rd.

--knoll in longleaf pine-wiregrass savanna

with *Pinus palustris*, *Aristida stricta*, *Quercus pumila*, *Gaylussacia dumosa*, *Tephrosia virginiana*, *Pteridium aquilinum*, *Baptisia lanceolata*, *Galactia erecta*, *Pityopsis graminifolia*, *Vernonia angustifolia*, *Stylosanthes biflora*, *Stylisma patens*

**21143 [1]** Orobanchaceae *Schwalbea americana* L.

det. R. Carter

locally common

**Richard Carter** with W. W. Baker

**31.29387N/83.88204W**

Doerun Pitcherplant Bog Natural Area, 2.74 airmiles SE Doerun town center (heading 130.71°), E of Hwy. GA 133, S of Hagen Still Rd.

--longleaf pine-wiregrass savanna, slope, ecotone above pitcherplant bog and hardwood drain

**21144 [2]** Cyperaceae *Cyperus echinatus* (L.) A. Wood

var. "sphaericus"

det. R. Carter

occasional

**21145** [2] Cyperaceae *Cyperus echinatus* (L.) A. Wood  
var. "sphaericus"  
det. R. Carter  
occasional

**7/18/2013**  
**Richard Carter** with W. W. Baker  
**U.S.A. Georgia: Colquitt County**  
**31.13021N/83.83842W**  
SW of Moultrie by Lower Meigs Rd., NW quadrant of jct. Lower Meigs Rd. and Tree Farm Rd., "The Hill"  
--seepage slope and drain  
with *Pinus elliottii*, *Acer rubrum*, *Nyssa biflora*, *Magnolia virginiana*, *Myrica heterophylla*, *Sarracenia flava*,  
*S. minor*, *Rhexia alifanus*, *Arundinaria tecta*, *Woodwardia areolata*, *Osmunda regalis*, *Smilax laurifolia*,  
*Sphagnum*

**21146** [1] Apiaceae *Eryngium baldwinii* Spreng.  
det. R. Carter  
locally common, heads blue

**21147** [2] Asteraceae *Gnaphalium simplicicaulis* (Willd. ex Spreng.) Cabrera  
det. R. Carter  
infrequent

**21148** [1] Cyperaceae *Cyperus polystachyos* Rottb.  
det. R. Carter  
locally common

**21149** [2] Asteraceae *Cirsium muticum* Michx.  
det. R. Carter  
common, heads pink

**21150** [1] Asteraceae *Pluchea baccharis* (Mill.) Pruski  
det. R. Carter  
common, heads pink

**21151** [1] Cyperaceae *Carex glaucescens* Ell.  
det. R. Carter  
occasional

**21152** [1] Xyridaceae *Xyris baldwinii* Schult.  
det. R. Carter  
locally common

**21153** [1] Xyridaceae *Xyris stricta* Chapm.  
det. R. Carter  
occasional

**21154** [2] Gentianaceae *Sabatia campanulata* (L.) Torr.  
det. R. Carter  
occasional, corolla pink, stems lax

**21155** [1] Gentianaceae *Sabatia difformis* (L.) Druce  
det. R. Carter  
occasional, corolla white with yellow tint

**21156** [1] Scrophulariaceae *Gratiola pilosa* Michx.  
det. R. Carter  
occasional, corolla white

**21157** [1] Cyperaceae *Rhynchospora gracilenta* Gray  
det. R. Carter  
locally common

**21158** [1] Poaceae *Dichanthelium scabriusculum* (Ell.) Gould & Clark  
det. R. Carter  
occasional

**21159** [1] Tofieldiaceae *Triantha racemosa* (Walt.) Small [*Tofieldia racemosa* (Walt.) Britt. et al.]  
det. R. Carter  
occasional, local

**21160** [1] Malvaceae *Hibiscus aculeatus* Walt.  
det. R. Carter  
occasional, corolla white, dark purple proximally

**21161** [1] Xyridaceae *Xyris ambigua* Beyr. ex Kunth  
det. R. Carter  
common

**21162** [1] Lamiaceae *Pycnanthemum nudum* Nutt.  
det. R. Carter  
locally common

**21163** [1] Xyridaceae *Xyris caroliniana* Walt.  
det. R. Carter  
occasional

**21164** [2] Cyperaceae *Rhynchospora ciliaris* Michx.  
det. R. Carter  
occasional

**21165** [1] Xyridaceae *Xyris platylepis* Chapm.  
det. R. Carter  
occasional

**21166** [1] Cyperaceae *Scleria pauciflora* Muhl. ex Willd var. *pauciflora*  
det. R. Carter  
occasional

**21167** [2] Cyperaceae *Cyperus haspan* L.  
det. R. Carter  
locally common, cespitose

**Richard Carter** with W. W. Baker  
**31.12726N/83.83981W**

SW of Moultrie by Lower Meigs Rd., NW quadrant of jct. Lower Meigs Rd. and Tree Farm Rd., "The Hill"  
--seepage bog, recently burned

**21168** [1] Asclepiadaceae *Asclepias lanceolata* Walt.  
det. R. Carter  
occasional

**21169** [2] Alismataceae *Sagittaria weatherbiana* Fernald  
det. R. Carter  
infrequent

**21170** [1] Melastomataceae *Rhexia alifanus* Walt.  
det. R. Carter  
common

**21171** [1] Melastomataceae *Rhexia petiolata* Walt.  
det. R. Carter  
occasional

**21172** [1] Asteraceae *Erechtites hieracifolius* (L.) Raf. ex DC.  
det. R. Carter  
occasional to locally common

**21173** [1] Eriocaulaceae *Eriocaulon decangulare* L.  
det. R. Carter  
locally abundant

**21174** [2] Cyperaceae *Rhynchospora gracilenta* A. Gray  
det. R. Carter  
locally common

**21175** [4] Cyperaceae *Rhynchospora glomerata* (L.) Vahl  
det. R. Carter  
locally common

**21176** [1] Urticaceae *Boehmeria cylindrica* (L.) Sw.  
det. R. Carter  
locally common

--plow line, disturbed sandy loam

**21177** [2] Rubiaceae *Diodia teres* Walt.  
det. R. Carter  
locally common

**21178** [2] Rubiaceae *Diodia virginiana* L.  
det. R. Carter  
occasional

**21179** [1] Rubiaceae *Richardia scabra* L.  
det. R. Carter  
locally common

**Richard Carter** with W. W. Baker  
**31.12355N/83.84441W**  
SW of Moultrie by Lower Meigs Rd., SW quadrant of jct. Lower Meigs Rd. and Tree Farm Rd., Morrison  
Pines Plantation  
--seepage slope along drain, recently burned

**21180** [1] Apocynaceae *Asclepias connivens* Baldw.  
det. R. Carter  
rare

**21181** [1] Euphorbiaceae *Tragia smallii* Shinners  
det. R. Carter  
occasional

**21182** [1] Melastomataceae *Rhexia mariana* L.  
det. R. Carter  
common

--drain

**21183** [2] Nyssaceae *Nyssa ogeche* Bartr.  
det. R. Carter  
small tree, common

**Richard Carter** with W. W. Baker  
**31.11835N/83.84564W**

SW of Moultrie by Lower Meigs Rd., SW quadrant of jct. Lower Meigs Rd. and Tree Farm Rd., Morrison Pines Plantation  
--disturbed jeep trail through drain

**21183a** [1] Iridaceae *Crocosmia xcrocosmiifolia* (Lem. ex Morr.) N.E. Br.  
det. R. Carter  
locally common, perianth orange

--sandy ridge and slope, shallow sand over clay/pebbly clay, recently burned  
with *Pinus palustris*, *Aristida stricta*, *Tephrosia virginiana*, *Pityopsis graminifolia*, *Coreopsis delphinifolia*

**21184** [3] Cyperaceae *Cyperus*  
det. R. Carter  
tissue voucher for molecular study

**21185** [1] Cyperaceae *Cyperus*  
det. R. Carter  
tissue voucher for molecular study

**21186** [1] Cyperaceae *Cyperus*  
det. R. Carter  
tissue voucher for molecular study

**21187** [2] Cyperaceae *Cyperus*  
det. R. Carter  
tissue voucher for molecular study

**21188** [1] Cyperaceae *Cyperus*  
det. R. Carter  
tissue voucher for molecular study

**21189** [1] Cyperaceae *Cyperus*  
det. R. Carter  
tissue voucher for molecular study

**21190** [1] Cyperaceae *Cyperus*  
det. R. Carter  
tissue voucher for molecular study

**21191 [1]** Cyperaceae *Rhynchospora globularis* (Chapm.) Small var. *globularis*  
 det. R. Carter  
 common

**21192 [2]** Asteraceae *Coreopsis delphinifolia* Lam.  
 det. R. Carter  
 locally common

**21193 [1]** Apocynaceae *Asclepias obovata* Ell.  
 det. R. Carter  
 occasional

**Richard Carter** with W. W. Baker

**31.12891N/83.84379W**

SW of Moultrie by Lower Meigs Rd., NW quadrant of jct. Lower Meigs Rd. and Tree Farm Rd., "The Hill"  
 --longleaf pine/wiregrass upland grading into seepage slope, recently burned

**21194 [2]** Cyperaceae *Scleria pauciflora* Muhl. ex Willd var. *caroliniana* A. Wood  
 det. R. Carter  
 occasional

**21195 [3]** Cyperaceae *Cyperus plukenetii* Fernald  
 det. R. Carter  
 occasional

**21196 [1]** Convolvulaceae *Ipomoea pandurata* (L.) G. Meyer  
 det. R. Carter  
 prostrate vine, locally common, corolla white

**Richard Carter** with W. W. Baker

**31.08786N/83.82729W**

1.20 mi N jct. Mack Dekle Rd. and Hwy. US 319, east side Mack Dekle Rd.  
 --impoundment

**21197 [3]** Salviniaceae *Salvinia rotundifolia* Baker  
 det. R. Carter  
 natant aquatic, locally abundant

**7/23/2013**

**Richard Carter** with W. W. Baker

**U.S.A. Georgia: Lowndes County**

**30.79247N/83.38557W**

Kinderlou Plantation, 0.63 airmiles WSW (heading 248°) of headquarters  
 --recently burned, well managed longleaf pine-wiregrass savanna

**21198 [1]** Cyperaceae *Cyperus echinatus* (L.) A. Wood  
 det. R. Carter

**21199 [1]** Cyperaceae *Cyperus echinatus* (L.) A. Wood  
 var. "sphaericus"  
 det. R. Carter

**Richard Carter** with W. W. Baker

**30.78918N/83.38952W**

Kinderlou Plantation, 0.93 airmiles WSW (heading 240.40°) of headquarters  
 --seepage slope in recently burned longleaf pine-wiregrass savanna

with *Pinus palustris*, *Quercus minima*, *Q. pumila*, *Myrica cerifera*, *Ilex glabra*, *Vaccinium myrsinites*, *Lyonia ferruginea*, *Serenoa repens*, *Aristida stricta*, *Sporobolus floridanus*, *Muhlenbergia expansa*, *Ctenium aromaticum*, *Xyris*, *Rhynchospora fascicularis*, *R. ciliaris*, *Eleocharis baldwinii*, *Lachnocaulon anceps*, *Sarracenia minor*, *Rhexia alifanus*, *R. petiolata*, *R. mariana*, *Polygala lutea*, *Tofieldia racemosa*, *Pycnanthemum nudum*, *Eupatorium rotundifolium*, *Aster reticulatus*, *Platanthera cristata*, *P. ciliaris*, *Carphephorus tomentosus*, *Hypericum myrtifolium*, *Pteridium aquilinum*, *Lycopodium alopecuroides*, *Osmunda cinnamomea*

Note: *Sarracenia minor*, locally common

**21200** [1] Cyperaceae *Cyperus echinatus* (L.) A. Wood  
var. "sphaericus"  
det. R. Carter

**21201** [1] Orchidaceae *Platanthera cristata* (Michx.) Lindl.  
det. R. Carter  
plants local, corolla orange

**21202** [1] Orchidaceae *Platanthera ciliaris* (L.) Lindl.  
det. R. Carter  
plants local, corolla orange

**21203** [1] Tofieldiaceae *Triantha racemosa* (Walt.) Small [*Tofieldia racemosa* (Walt.) Britt. et al.]  
det. R. Carter  
plants local, perianth white

**21204** [1] Lamiaceae *Pycnanthemum nudum* Nutt.  
det. R. Carter  
plants locally common

**Richard Carter** with W. W. Baker  
**30.78687N/83.36593W**

Kinderlou Plantation, 0.86 airmiles SE (heading 137.55°) of headquarters  
--recently burned, well managed longleaf pine-wiregrass savanna  
with *Pinus palustris*, *Quercus pumila*, *Q. falcata*, *Diospyros virginiana*, *Aristida stricta*, *Eryngium yuccifolium*, *Tephrosia virginiana*, *Pteridium aquilinum*, *Baptisia lecontei*, *Rhynchosia tomentosa*  
Note: *Baptisia lecontei* observed, plants occasional

**21205** [1] Euphorbiaceae *Tragia urticifolia* Michx.  
det. R. Carter  
plants with stinging hairs, infrequent

**21206** [1] Asteraceae *Verbesina aristata* (Ell.) A. Heller  
det. R. Carter  
occasional to locally common

**21207** [1] Rubiaceae *Galium pilosum* Aiton  
det. R. Carter  
common

**21208** [1] Clusiaceae *Hypericum pseudomaculatum* Bush  
det. R. Carter  
occasional

**21209** [3] Cyperaceae *Cyperus retrofractus* (L.) Torr.  
det. R. Carter  
plants local and rare

**21210** [1] Cyperaceae *Cyperus echinatus* (L.) A. Wood  
var. "sphaericus"  
det. R. Carter

**21211** [1] Cyperaceae *Cyperus echinatus* (L.) A. Wood  
det. R. Carter

**21212** [2] Cyperaceae *Cyperus echinatus* (L.) A. Wood  
det. R. Carter

**21213** [1] Cyperaceae *Cyperus echinatus* (L.) A. Wood  
det. R. Carter

**7/24/2013**

**Richard Carter** with W. W. Baker

**U.S.A. Georgia: Brooks County**

**30.67572N/83.42018W**

Riverbend Plantation, 0.93 airmiles ENE (heading 63.71°) of jct. Nankin Rd. and Clyattville Rd.  
--recently burned longleaf pine-wiregrass matrix with isolated sinkhole depressions, margin of sinkhole pond  
with *Pinus palustris*, *Aristida stricta*, *P. ellottii*, *P. taeda*, *Taxodium ascendens*, *Hibiscus aculeatus*,  
*Pteridium aquilinum*, *Sarracenia minor*, *Ctenium aromaticum*, *Calopogon tuberosus*, *Scleria reticularis*,  
*Woodwardia virginica*, *Xyris*, *Rhynchospora*

Note: *Calopogon tuberosus* observed, rare, no voucher taken; *Sarracenia minor* observed, plants occasional

**21214** [1] Asclepiadaceae *Asclepias verticillata* L.  
det. R. Carter  
plants infrequent; corolla white, latex present

**21215** [2] Ericaceae *Lyonia fruticosa* (Michx.) G.S. Torrey  
det. R. Carter  
2 m shrub, common

**21216** [2] Scrophulariaceae *Penstemon multiflorus* Chapm. ex Benth.  
det. R. Carter  
occasional

**21217** [1] Agavaceae *Manfreda virginica* (L.) Salisbury ex Rose [*Polianthes virginica* (L.) Shinners]  
det. R. Carter  
infrequent

**21218** [1] Asteraceae *Eupatorium rotundifolium* L.  
det. R. Carter  
locally common; heads white

**21219** [1] Melastomataceae *Rhexia petiolata* Walt.  
det. R. Carter  
plants locally common, corolla pinkish purple

**21220** [1] Asteraceae *Pluchea baccharis* (Mill.) Pruski [*Pluchea rosea* Godfrey]  
det. R. Carter  
plants locally common, heads rose

**21221** [1] Hypoxidaceae *Hypoxis juncea* Sm.

det. R. Carter  
plants local, perianth yellow

**21222 [1]** Scrophulariaceae *Strophonanthe hispida* Benth. ex Lindl. [*Gratiola hispida* (Benth. ex Lindl.) Pollard]

det. R. Carter  
plants locally common, corolla white

**21223 [2]** Xyridaceae *Xyris ambigua* Beyr. ex Kunth

det. R. Carter  
plants common, corolla yellow

**21224 [2]** Onagraceae *Ludwigia suffruticosa* Walter

det. R. Carter  
plants locally common

**21225 [1]** Cyperaceae *Scleria triglomerata* Michx.

det. R. Carter  
occasional

**21226 [1]** Orchidaceae *Platanthera ciliaris* (L.) Lindl.

det. R. Carter  
plants local, just coming into anthesis; corolla yellowish orange

**21227 [1]** Xyridaceae *Xyris caroliniana* Walter

det. R. Carter  
plants occasional, base mucilaginous

**21228 [1]** Cyperaceae *Rhynchospora fascicularis* (Michx.) Vahl

det. R. Carter  
common

**21229 [2]** Poaceae *Ctenium aromaticum* (Walt.) A. Wood

det. R. Carter  
locally common

**Richard Carter** with W. W. Baker

**30.67864N/83.41964W**

Riverbend Plantation, vic. lodge, 1.07 airmiles ENE (heading 54.56°) of jct. Nankin Rd. and Clyattville Rd.  
--recently burned longleaf pine-wiregrass upland, sandy river bluff grading into mesic slope  
with *Pinus palustris*, *P. echinata*, *P. taeda*, *Carya tomentosa*, *Hamamelis virginiana*, *Asimina parviflora*

**21230 [3]** Apiaceae *Sanicula canadensis* L.

det. R. Carter  
locally common

**21231 [1]** Rubiaceae *Galium pilosum* Aiton

det. R. Carter  
common

**21232 [1]** Asteraceae *Eupatorium album* L.

det. R. Carter  
common, heads white

**21233 [2]** Asteraceae *Verbesina aristata* (Ell.) A. Heller

det. R. Carter

locally common

**21234 [1]** Cyperaceae *Cyperus plukenetii* Fernald  
det. R. Carter  
occasional

**Richard Carter** with W. W. Baker  
**30.68241N/83.42475W**

Riverbend Plantation, vic. lodge, 1.05 airmiles NE (heading 32.85°) of jct. Nankin Rd. and Clyattville Rd.  
--recently burned floodplain terrace along Withlacoochee River  
with *Liquidambar styraciflua*, *Pinus taeda*, *Carya tomentosa*, *Quercus virginiana*, *Q. nigra*, *Diospyros virginiana*, *Quercus minima*

**21235 [3]** Fabaceae *Baptisia alba* (L.) Vent.  
det. R. Carter  
locally common

**21236 [2]** Lamiaceae *Pycnanthemum flexuosum* (Walt.) Britt. et al.  
det. R. Carter

**21237 [2]** Cistaceae *Lechea pulchella* Raf.  
det. R. Carter  
locally common

**21238 [2]** Poaceae *Tripsacum dactyloides* (L.) L.  
det. R. Carter

**21239 [1]** Poaceae *Dichanthelium aciculare* (Desv. ex Poir.) Gould & Clark  
det. R. Carter  
common

8/2/2013

**Richard Carter** with F. Snow  
**U.S.A. Georgia: Coffee County**  
**31.53944N/82.81755W**

NE Douglas, along N side Hwy. GA 206 (N Connector Rd.), ca. 0.5 mi E jct. Hwy. US 221, along powerline right-of-way  
--degraded sandridge east of Seventeen Mile Creek

**21240 [2]** Cyperaceae *Cyperus filiculmis* Vahl  
det. R. Carter  
occasional

**Richard Carter** with F. Snow  
**31.53956N/82.81673W**

NE Douglas, along N side Hwy. GA 206 (N Connector Rd.), ca. 0.5 mi E jct. Hwy. US 221, edge of sandpit along powerline right-of-way  
--degraded sandridge east of Seventeen Mile Creek

**21241 [3]** Cyperaceae *Cyperus hystricinus* Fernald  
det. R. Carter  
infrequent and local

**Richard Carter** with F. Snow  
**31.53944N/82.81849W**

NE Douglas, along N side Hwy. GA 206 (N Connector Rd.), ca. 0.5 mi E jct. Hwy. US 221, edge of sandpit along powerline right-of-way  
--degraded sandridge east of Seventeen Mile Creek

**21242 [2]** Cyperaceae *Cyperus nashii* Britt. in Small  
det. R. Carter  
infrequent and local

**21243 [1]** Fabaceae *Galactia volubilis* (L.) Britt.  
det. R. Carter  
occasional

**21244 [1]** Cistaceae *Lechea deckertii* Small  
det. R. Carter  
occasional

**21245 [1]** Caryophyllaceae *Paronychia herniarioides* (Michx.) Nutt.  
det. R. Carter  
occasional

**21246 [1]** Cistaceae *Lechea deckertii* Small  
det. R. Carter  
occasional

**21247 [3]** Asteraceae *Helianthus debilis* Nutt. subsp. *cucumerifolius* (Torr. & A. Gray) Heiser  
det. R. Carter  
occasional

**Richard Carter** with F. Snow  
**31.53969N/82.81764W**

NE Douglas, along N side Hwy. GA 206 (N Connector Rd.), ca. 0.5 mi E jct. Hwy. US 221  
--sandpit, water atypically deep because of recent precipitation

**21248 [4]** Clusiaceae *Hypericum brachyphyllum* (Spach) Steud.  
det. R. Carter  
common

**21249 [2]** Eriocaulaceae *Lachnocaulon minus* (Chapm.) Small  
det. R. Carter  
common

**21250 [1]** Lycopodiaceae *Lycopodiella appressa* (Chapm.) Cranfill [*Lycopodium appressum* (Chapm.) Lloyd & Underw.]  
det. R. Carter  
common

**21251 [1]** Lycopodiaceae *Pseudolycopodiella caroliniana* (L.) Holub. [*Lycopodium carolinianum* L.]  
det. R. Carter  
common

**21252 [1]** Lycopodiaceae *Lycopodiella prostrata* (Harper) Cranfill [*Lycopodium prostratum* Harper]  
det. R. Carter  
common

**21253 [1]** Burmanniaceae *Burmannia capitata* (J.F. Gmel.) Mart.  
det. R. Carter

common

**21254 [1]** Droseraceae *Drosera intermedia* Hayne

det. R. Carter

common

**Richard Carter** with F. Snow

**U.S.A. Georgia: Jeff Davis County**

**31.78221N/82.81223W**

Flat Tub WMA, Rocky Hammock Tract, N of Hwy. GA 107, 0.5 mi E jct. Dan Kirkland Rd. and Piney Grove Church Rd., along N side Piney Grove Church Rd., 0.6 mi W Piney Grove Church  
--degraded longleaf pine-wiregrass community adjacent to rock outcrop, ca. 8 weeks post burn

**21255 [1]** Cyperaceae *Eleocharis brittonii* Svens. ex Small

det. R. Carter

common

**Richard Carter** with F. Snow

**U.S.A. Georgia: Coffee County**

**31.74168N/82.84193W**

Broxton Rocks Preserve, Ricketson Tract, S of Hwy. GA 107 by Mobley Rd./Robert Ricketson Rd.  
--thin soil over sandstone, seepy

**21256 [1]** Cyperaceae *Rhynchospora pusilla* Chapm. ex M.A. Curtis

det. R. Carter

common

**Richard Carter** with F. Snow

**31.7421N/82.84622W**

Broxton Rocks Preserve, Ricketson Tract, S of Hwy. GA 107 by Mobley Rd./Robert Ricketson Rd.  
--thin soil over sandstone, seepy

**21257 [1]** Xyridaceae *Xyris flabelliformis* Kral

det. R. Carter

rare and local

--thin soil over sandstone

**21258 [1]** Cyperaceae *Rhynchospora globularis* (Chapm.) Small var. *saxicola* (Small) Kük.

det. R. Carter

rare and local

8/26/2013

**Richard Carter** with E. E. Sheeley

**U.S.A. Georgia: Brooks County**

**30.67864N/83.41964W**

Riverbend Plantation, vic. lodge, 1.07 airmiles ENE (heading 54.56°) of jct. Nankin Rd. and Clyattville Rd.  
--recently burned longleaf pine-wiregrass upland, sandy river bluff grading into mesic slope  
with *Pinus palustris*, *P. echinata*, *P. taeda*, *Carya tomentosa*, *Hamamelis virginiana*, *Asimina parviflora*

**21298 [1]** Orchidaceae *Habenaria quinqueseta* (Michx.) Eaton

det. R. Carter

plants rare, local

8/27/2013

**Richard Carter** with R. E. Mears, F. Snow

**U.S.A. Georgia: Coffee County**

**31.53944N/82.81755W**

NE Douglas, along N side Hwy. GA 206 (N Connector Rd.), ca. 0.5 mi E jct. Hwy. US 221, along powerline right-of-way

--degraded sandridge east of Seventeen Mile Creek

**21299 [3]** Cyperaceae *Cyperus*

det. R. Carter

locally common, cespitose

**21300 [1]** Brassicaceae *Warea cuneifolia* (Muhl. ex Nutt.) Nutt.

det. R. Carter

locally common; corolla lavender

**Richard Carter** with R. E. Mears, F. Snow

**U.S.A. Georgia: Jeff Davis County**

**31.78829N/82.81323W**

Flat Tub WMA, Rocky Hammock Tract, N of Hwy. GA 107, 0.5 mi E jct. Dan Kirkland Rd. and Piney Grove Church Rd., along N side Piney Grove Church Rd.

--degraded longleaf pine-wiregrass community near rock outcrop; elev. ca. 230 ft.

**21301 [1]** Poaceae *Anthaenantia villosa* (Michx.) P. Beauv.

det. R. Carter

occasional, locally common

**21302 [1]** Cyperaceae *Cyperus plukenetii* Fern.

det. R. Carter

occasional, locally common

**21303 [2]** Cyperaceae *Cyperus echinatus* (L.) A. Wood

det. R. Carter

local

**21304 [5]** Cyperaceae *Cyperus echinatus x filiculmis*

det. R. Carter

local

**Richard Carter** with R. E. Mears, F. Snow

**U.S.A. Georgia: Coffee County**

**31.73309N/82.85473W**

Broxton Rocks Nature Conservancy Preserve, slope along jeep trail to Rockhouse Falls, SW side of branch

--degraded upland pine woods

**21305 [2]** Pinaceae *Pinus serotina* Michx.

det. R. Carter

tree ca. 10 m tall, local

--sandstone outcrop

with *Chionanthus virginicus*, *Vaccinium arboreum*, *V. elliottii*, *Osmanthus americanus*, *Pinus taeda*, *Liquidambar styraciflua*, *Rhus copallina*, *Hypericum hypericoides*, *Callicarpa americana*, *Rubus*, *Gelsemium sempervirens*, *Smilax glauca*, *Vitis rotundifolia*, *Parthenocissus quinquefolia*, *Allium bivalve*, *Bigelowia nuttallii*, *Penstemon dissectus*, *Crotonopsis elliptica*, *Ophioglossum nudicaule*, *Evolvulus sericeus*, *Steinchisma hians*, *Scutellaria parvula*, *Panicum anceps rhizomatum*, *Centrosema nictitans*,

*Chamaecrista nictitans*, *Paspalum setaceum*, *Polygala curtisii*, *Diodia teres*, *Drosera brevifolia*, *Xyris flabelliformis*

**21306 [2]** Oleaceae *Forestiera ligustrina* (Michx.) Poir.

det. R. Carter

2 m shrub, common along edge of outcrop

**Richard Carter** with R. E. Mears

**U.S.A. Georgia: Ware County**

**31.3001N/82.55997W**

3.75 mi NW jct. Hwy. GA 158 and Hwy. US 82, along SW side Hwy. GA 158 just SE of Satilla River bridge

--sandridge, white sand, elev. ca. 140 ft.

with *Quercus geminata*, *Q. myrtifolia*, *Q. chapmanii*, *Osmanthus americanus*, *Vaccinium arboreum*, *Lyonia ferruginea*, *Serenoa repens*

**21307 [2]** Cyperaceae *Cyperus*

det. Carter

local in relatively undisturbed sand

**21308 [1]** Cyperaceae *Cyperus*

det. Carter

locally common, in disturbed sand

**9/3/2013**

**Richard Carter** with Jacob Thompson

**U.S.A. Georgia: Camden County**

**30.82761N/81.54435W**

Kings Bay Submarine Base, Cherry Point

--hardwood hammock

with *Quercus virginiana*, *Q. hemisphaerica*, *Carya glabra*, *Sabal palmetto*, *Juniperus virginiana silicicola*, *Prunus serotina*, *Persea borbonia*, *Ilex vomitoria*, *Cercis canadensis*, *Serenoa repens*, *Arundinaria gigantea*

**21310 [3]** Poaceae *Chasmanthium sessiliflorum* (Poir.) Yates [*Chasmanthium sessiliflorum* (Poir.) Yates *sessiliflorum* (Poir.) Wipff & S.D. Jones]

det. R. Carter

**Richard Carter** with Jacob Thompson

**30.82815N/81.5518W**

Kings Bay Submarine Base, Cherry Point

--hardwood hammock remnant along E side of golf course

with *Quercus virginiana*, *Q. hemisphaerica*, *Carya glabra*, *Xanthoxylum clava-herculis*, *Rhus copallina*, *Osmanthus americanus*, *Vaccinium arboreum*, *Callicarpa americana*

**21311 [11]** Fagaceae *Quercus nigra* L.

det. R. Carter

tree, 15 m tall

with *Quercus virginiana*, *Q. hemisphaerica*, *Carya glabra*, *Sabal palmetto*, *Juniperus virginiana silicicola*, *Prunus serotina*, *Persea borbonia*, *Ilex vomitoria*, *Cercis canadensis*, *Serenoa repens*

**21312 [5]** Fagaceae *Quercus hemisphaerica* Bartr. ex Willd.

det. R. Carter

tree, 20 m tall

**Richard Carter** with Jacob Thompson

**30.83473N/81.54543W**

Kings Bay Submarine Base, Cherry Point

--hardwood hammock

with *Quercus virginiana*, *Q. hemisphaerica*, *Carya glabra*, *Sabal palmetto*, *Juniperus virginiana silicicola*, *Prunus serotina*, *Persea borbonia*, *Ilex vomitoria*, *Cercis canadensis*, *Serenoa repens*, *Arundinaria gigantea*

**21313 [6]** Nyssaceae *Nyssa sylvatica* Marsh.

det. R. Carter

tree, 15 m tall, trunk with fairly constant taper to base; leaves membranous, dull green above

**Richard Carter** with Jacob Thompson

**30.81996N/81.54320W**

Kings Bay Submarine Base, Etowah Park, along approach to landing at public boat dock

--open sandy loam

*Aeschynomene viscidula* Michx. [no voucher taken, confirmation of earlier record: Carter 12976 (VSC), 1 Jul 1996]

plants local, ~10 plants observed [population vigor and size essentially unchanged since 1996]

**9/10/2013**

**Richard Carter** with W. W. Baker

**U.S.A. Georgia: Miller County**

**31.20573N/84.81323E**

Mayhaw WMA, 5.3 airmi WNW (296.61°) of Colquitt center, 0.55 mi N jct. Springhead Rd and Griggs Lucille Rd, by Springhead Rd

--sandy bank along rd through shaded hardwood hammock

**21318 [5]** Commelinaceae *Commelina communis* L.

det. R. Carter

plant locally common; stems ±decumbent, rooting at nodes; spathes proximally pale; flowers with 2 blue petals and 1 white central petal

**21319 [4]** Polygonaceae *Persicaria pensylvanica* (L.) Small [*Polygonum pensylvanicum* L.]

det. R. Carter

plant locally common, stems decumbent, perianth pink

**21320 [4]** Lamiaceae *Perilla frutescens* L.

det. R. Carter

plants locally common, aromatic, corolla pale purple

--swamp

with *Magnolia virginiana*, *Taxodium distichum*, *Acer rubrum*, *Planera aquatica*, *Fraxinus pennsylvanica*, *Cornus foemina*, *Persea palustris*, *Sabal minor*, *Berchemia scandens*

**21321 [2]** Cyperaceae *Rhynchospora miliacea* (Lam.) A. Gray

det. R. Carter

plants locally common

**21322 [1]** Brassicaceae *Nasturtium*

plants sterile, local in shallow water, rooted in mud, leaves natant

**Richard Carter** with W. W. Baker

**31.21682N/84.80858E**

Mayhaw WMA, 5.45 airmi NW (305.47°) of Colquitt center, N of Griggs Lucille Rd, E of Springhead Rd

--degraded longleaf pine-wiregrass savanna  
 with *Pinus palustris*, *Quercus margarettae*, *Q. laevis*, *Q. incana*, *Q. falcata*, *Q. hemisphaerica*, *Q. virginiana*, *Q. pumila*, *Prunus serotina*, *Diospyros virginiana*, *Sassafras albidum*, *Rhus copallinum*, *Aristida stricta*, *Schizachyrium tenerum*, *Tephrosia virginiana*

**21323 [1]** Asclepiadaceae *Asclepias tuberosa* L.

det. R. Carter  
 occasional, latex absent

**21324 [1]** Poaceae *Anthaenantia villosa* (Michx.) P. Beauv.

det. R. Carter  
 occasional

**21325 [4]** Fabaceae *Strophostyles umbellata* (Muhl. ex Willd.) Britt.

det. R. Carter  
 occasional, corolla pink with purple tipped keel

**21326 [1]** Asteraceae *Sericocarpus tortifolius* (Michx.) Nees [*Aster tortifolius* Michx.]

det. R. Carter  
 occasional, heads white

**21327 [1]** Asteraceae *Eupatorium hyssopifolium* L.

det. R. Carter  
 common, heads white

**21328 [2]** Fabaceae *Dalea carnea* (Michx.) Poir. var. *gracilis* (Nutt.) Barneby

det. R. Carter  
 occasional, flowers white

**21329 [1]** Fabaceae *Dalea pinnata* (J.G. Gmel.) Barneby var. *trifoliata* (Chapm.) Barneby

det. R. Carter  
 occasional, flowers white

**21330 [2]** Asteraceae *Pityopsis aspera* (Shuttlew. ex Small) Small

det. R. Carter  
 occasional, heads yellow

**21331 [1]** Polygalaceae *Asemeia grandiflora* (Walter) Small [*Polygala grandiflora* Walter]

det. R. Carter  
 occasional, flowers purple, roots aromatic

**21332 [2]** Poaceae *Paspalum bifidum* (Bertol.) Nash

det. R. Carter  
 occasional, leaves glaucous

**21333 [1]** Asteraceae *Liatris elegans* (Walt.) Michx.

det. R. Carter  
 occasional, tips of bracts pale purple to cream

**21334 [2]** Lamiaceae *Trichostema dichotomum* L.

det. R. Carter  
 occasional to common, corolla blue

**21335 [1]** Fabaceae *Desmodium ciliare* (Muhl. ex Willd.) DC.

det. R. Carter  
 common, flowers greenish purple

**Richard Carter** with W. W. Baker

**31.21654N/84.79697E**

Mayhaw WMA, 4.88 airmi NW (309.66°) of Colquitt center, 1.6 mi N of Griggs Lucille Rd by main dirt trail  
--longleaf pine-wiregrass savanna grading into margin of cypress pond

**21336** [2] Asteraceae *Rudbeckia mohrii* A. Gray

det. R. Carter

infrequent and local, in shallow water along edge of pond, rays yellow, disk black

**21337** [2] Cyperaceae *Rhynchospora careyana* Fern.

det. R. Carter

locally common in shallow water, edge of pond

**21338** [2] Cyperaceae *Cyperus plukenetii* Fern.

det. R. Carter

occasional in sandy upland

**21339** [1] Cyperaceae *Cyperus echinatus* (L.) A. Wood

det. R. Carter

occasional in sandy upland

**21340** [1] Asteraceae *Elephantopus elatus* Bertol.

det. R. Carter

common in sandy upland, flowers purple

**21341** [1] Asteraceae *Vernonia angustifolia* Michx. var. *angustifolia*

det. R. Carter

occasional in sandy upland, heads purple

**21342** [1] Scrophulariaceae *Mecardonia acuminata* (Walt.) Small

det. R. Carter

occasional, corolla white

**21343** [2] Euphorbiaceae *Euphorbia pubentissima* Michx.

det. R. Carter

occasional to locally common in sandy upland; petaloid appendages white, plant with latex

**21344** [1] Euphorbiaceae *Tragia urticifolia* Michx.

det. R. Carter

occasional in sandy upland, plant with stinging trichomes

9/11/2013

**Richard Carter** with F. Snow

**U.S.A. Georgia: Coffee County**

**31.73309N/82.85473W**

Broxton Rocks Nature Preserve, just N of waterfall on W side of branch

--sandstone outcrop, thin soil over sandstone; elev. ca. 200 ft

with *Nothoscordum bivalve*, *Allium mobilense*, *Bigelowia nuttallii*, *Talinum*, *Dichanthelium*, *Penstemon dissectus*, *Crotonopsis elliptica*, *Evolvulus sericeus*, *Hypericum gentianoides*, *Ophioglossum nudicaule*, *Steinchisma hians*, *Scutellaria parvula*, *Rhynchospora globularis*, *Lindernia monticola*, *Xyris flabelliformis*, *Drosera brevifolia*, *D. capillaris*, *Diodia teres*, *Cheilanthes lanosa*, *Centrosema virginica*, *Chamaecrista nictitans*, *Commelinia erecta*, *Panicum anceps*, *Asplenium platyneuron*, *Paspalum setaceum*, *Smilax glauca*, *Euthamia*, *Polygala curtissii*, *Packera tomentosa*, *Tradescantia hirsuticaulis*, *Chionanthus virginicus*, *Forestiera ligustrina*, *Callicarpa americana*, *Pinus taeda*, *Gelsemium sempervirens*,

*Liquidambar styraciflua*, *Osmanthus americanus*, *Quercus nigra*, *Rhus copallina*, *Vitis rotundifolia*,  
*Vaccinium arboreum*, *V. elliottii*, *Hypericum hypericoides*, *Parthenocissus quinquefolia*, *Yucca filamentosa*

**21345 [5] Oxalidaceae *Oxalis***

plants locally common in pockets of shallow soil; corolla pinkish violet

**21346 [1] Clusiaceae *Hypericum setosum* L.**

det. R. Carter

**21347 [1] Asteraceae *Eupatorium hyssopifolium* L.**

det. R. Carter

locally common, heads white

**21348 [1] Poaceae *Dichanthelium strigosum* (Muhl. ex Ell.) Freckm. subsp. *leucoblepharis* (Trin.)**

Freckm. & Lelong [*Panicum ciliatum* Ell.]

det. R. Carter

locally common

**21349 [1] Poaceae *Dichanthelium sphaerocarpon* (Ell.) Gould**

det. R. Carter

**21350 [1] Cyperaceae *Fimbristylis annua* (All.) R. & S.**

det. R. Carter

infrequent

**Richard Carter with F. Snow**

**U.S.A. Georgia: Jeff Davis County**

**31.78531N/82.82189W**

SW corner of Rocky Hammock Tract, sandstone outcrop #1, 0.35 mi NNW jct. Kirkland Rd and Piney Grove Church Rd

**21351 [3] Oxalidaceae *Oxalis***

plants locally common in pockets of shallow soil and occasional in sandy soil along the edge of outcrop;  
corolla pinkish violet

**21352 [2] Cyperaceae *Fuirena squarrosa* Michx.**

det. R. Carter

plants cespitose, locally common in sandy seep adjacent to rock outcrop

**21353 [2] Cyperaceae *Rhynchospora debilis* Gale**

det. R. Carter

plants cespitose, locally common in sandy seep adjacent to rock outcrop

**21354 [2] Cyperaceae *Rhynchospora pusilla* Chapm. ex M.A. Curtis**

det. R. Carter

disturbed sandy area adjacent to outcrop, plants locally common

**21355 [2] Cyperaceae *Rhynchospora globularis* (Chapm.) Small var. *globularis***

det. R. Carter

occasional to locally common

**21356 [2] Cyperaceae *Rhynchospora globularis* (Chapm.) Small var. *globularis***

det. R. Carter

occasional to locally common in disturbed sands adjacent to outcrop

**21357 [2] Cyperaceae *Rhynchospora inexpansa* (Michx.) Vahl**

det. R. Carter  
occasional in disturbed sands adjacent to outcrop

**21358 [1]** Cyperaceae *Rhynchospora microcarpa* Baldw. ex A. Gray  
det. R. Carter  
occasional to locally common in disturbed sands adjacent to outcrop

**9/20/2013**

**Richard Carter with W. W. Baker**

**U.S.A. Georgia: Colquitt County**

**31.13068N/83.84205W**

SW of Moultrie by Lower Meigs Rd., NW quadrant of jct. Lower Meigs Rd. and Tree Farm Rd., "The Hill"  
--seepage slope bog  
with *Pinus elliottii*, *Acer rubrum*, *Nyssa biflora*, *Magnolia virginiana*, *Myrica heterophylla*, *Sarracenia flava*,  
*S. minor*, *Pinckneya bracteata*, *Sphagnum*

**21362 [1]** Poaceae *Aristida purpurascens* Poir. var. *virgata* (Trin.) Allred  
det. R. Carter  
common

**21363 [3]** Poaceae *Andropogon virginicus* L. var. *glaucus* Hack  
det. R. Carter  
common

**21364 [4]** Poaceae *Panicum longifolium* Torr.  
det. R. Carter  
occasional

**21365 [1]** Onagraceae *Ludwigia linearis* Walt.  
det. R. Carter  
common

**21366 [2]** Poaceae *Saccharum baldwinii* Spreng.  
det. R. Carter  
locally common

**21367 [4]** Cyperaceae *Scleria reticularis* Michx. var. *pubescens* Britt.  
det. R. Carter  
locally common

**21368 [1]** Poaceae *Sporobolus teretifolius* R.M. Harper  
det. R. Carter  
local, rare

**21369 [1]** Campanulaceae *Lobelia flaccidifolia* Small  
det. R. Carter  
occasional, corolla blue

**21370 [2]** Asteraceae *Eupatorium rotundifolium* L.  
det. R. Carter  
common, heads white

**21371 [1]** Asteraceae *Cirsium virginianum* (L.) Michx  
det. R. Carter  
occasional

**21372** [1] Apiaceae *Eryngium integrifolium* Walt.  
det. R. Carter  
local, occasional

**21373** [1] Eriocaulaceae *Eriocaulon decangulare* L.  
det. R. Carter  
common

**21374** [1] Asteraceae *Balduina atropurpurea* R.M. Harper  
det. R. Carter  
local, rare

**21375** [1] Asteraceae *Eupatorium leucolepis* (DC.) Torr. & A. Gray  
det. R. Carter  
occasional, heads white

**21376** [1] Cyperaceae *Fuirena squarrosa* Michx.  
det. R. Carter  
locally common

**21377** [1] Asteraceae *Elephantopus elatus* Bertol.  
det. R. Carter  
common

**21378** [2] Poaceae *Panicum verrucosum* Muhl.  
det. R. Carter  
locally abundant

**21379** [2] Xyridaceae *Xyris jupicai* L.C. Rich.  
det. R. Carter  
common

**21380** [1] Convolvulaceae *Cuscuta compacta* Juss. ex Choisy  
det. R. Carter  
occasional, parasitic on low shrubs, stems yellowish white

**21381** [1] Hypericaceae *Hypericum setosum* L.  
det. R. Carter  
infrequent

**21382** [1] Loganiaceae *Mitreola sessilifolia* (J.F. Gmel.) G. Don  
det. R. Carter  
locally common

**21383** [1] Asteraceae *Pluchea baccharis* (Mill.) Pruski  
det. R. Carter  
common

**21384** [1] Asteraceae *Solidago fistulosa* Mill.  
det. R. Carter  
common

**21385** [2] Asteraceae *Pluchea baccharis* (Mill.) Pruski  
det. R. Carter  
common

**21386** [1] Lamiaceae *Lycopus americanus* Muhl. ex Bart.  
det. R. Carter  
locally common

**21387** [1] Campanulaceae *Lobelia puberula* Michx.  
det. R. Carter  
occasional, corolla blue

**21388** [1] Lamiaceae *Pycnanthemum nudum* Nutt.  
det. R. Carter  
locally common

**21389** [1] Asteraceae *Mikania scandens* (L.) Willd.  
det. R. Carter  
locally common vine, heads white

**Richard Carter** with W. W. Baker  
**31.12683N/83.84146W**

SW of Moultrie by Lower Meigs Rd., NW quadrant of jct. Lower Meigs Rd. and Tree Farm Rd., "The Hill"  
--seepage slope bog  
with *Pinus elliottii*, *Acer rubrum*, *Nyssa biflora*, *Magnolia virginiana*, *Myrica heterophylla*, *Sarracenia flava*,  
*S. minor*, *Pinckneya bracteata*, *Sphagnum*

**21390** [1] Poaceae *Anthaeantia rufa* (Nutt.) Schult.  
det. R. Carter  
locally common

**21391** [1] Asteraceae *Bigelowia nudata* (Michx.) DC subsp. *nudata*  
det. R. Carter  
locally common, heads yellow

**21392** [1] Asteraceae *Balduina atropurpurea* R.M. Harper  
det. R. Carter  
local, rare

**21393** [2] Asteraceae *Liatris spicata* (L.) Willd. var. *resinosa* (Nutt.) Geiser  
det. R. Carter  
common

**21394** [1] Asteraceae *Helianthus floridanus* A. Gray ex Chapm.  
det. R. Carter  
common, ray and disk flowers yellow

**21395** [2] Poaceae *Muhlenbergia capillaris* (Lam.) Trin.  
det. R. Carter  
common

**21396** [2] Poaceae *Andropogon gerardii* Vitman  
det. R. Carter  
common

**21397** [2] Asteraceae *Liatris gracilis* Pursh  
det. R. Carter  
common, heads purple

**Richard Carter** with W. W. Baker

**31.12399N/83.84231W**

SW of Moultrie by Lower Meigs Rd., ca. 600 m SW (Heading 225.8°) jct. Lower Meigs Rd. and Tree Farm Rd.; "Morrison Pines Plantation"

--seepage slope bog

with *Pinus elliottii*, *Acer rubrum*, *Nyssa biflora*, *Magnolia virginiana*, *Myrica heterophylla*, *Sarracenia flava*, *S. minor*, *Sphagnum*

**21398 [10] Poaceae *Sporobolus teretifolius* R.M. Harper**

det. R. Carter

locally abundant, huge clumps

**21399 [1] Cyperaceae *Rhynchospora gracilenta* A. Gray**

det. R. Carter

locally abundant, cespitose

**21400 [1] Poaceae *Sporobolus teretifolius* R.M. Harper**

det. R. Carter

locally abundant, cespitose

**21401 [4] Poaceae *Coelorachis rugosa* (Nutt.) Nash**

det. R. Carter

locally abundant

**21402 [2] Asteraceae *Balduina atropurpurea* R.M. Harper**

det. R. Carter

local, rare

**21403 [1] Scrophulariaceae *Agalinis linifolia* (Nutt.) Britt.**

det. R. Carter

locally common

**9/24/2013**

**Richard Carter** with F. Snow, R. L. Mears

**U.S.A. Georgia: Jeff Davis County**

**31.76486N/82.81883W**

Flat Rock, 4.1 mi W Snipesville by Hwy. GA 107, 1 mi E of Jeff Davis/Coffee county line, ca. 0.2 mi N Hwy. GA 107

--sandstone outcrop and adjacent upland

with *Pinus palustris*, *P. taeda*, *Quercus marilandica*, *Q. nigra*, *Q. hemisphaerica*, *Liquidambar styraciflua*, *Prunus serotina*, *Acer rubrum*, *Nyssa biflora*, *Juniperus virginiana*, *Osmanthus americanus*, *Elliottia racemosa*, *Vaccinium elliottii*, *Serenoa repens*, *Callicarpa americana*, *Vaccinium arboreum*, *Gelsemium sempervirens*, *Smilax glauca*, *Aristida stricta*, *Schizachyrium scoparium*, *S. tenerum*, *Hypericum gentianoides*, *Bigelowia nuttallii*, *Trichostema setaceum*, *T. dichotomum*, *Portulaca biloba*, *Talinum*, *Nothoscordum bivalve*, *Aureolaria pectinata*, *Seymeria cassioides*, *Selaginella acanthonota*, *S. arenicola*, *Crotonopsis elliptica*, *Dichanthelium aciculare*, *Panicum anceps*

**21404 [2] Cyperaceae *Rhynchospora globularis* (Chapm.) Small var. *saxicola* (Small) Kük.**

det. R. Carter

rare, occasional locally

**21405 [1] Poaceae *Dichanthelium strigosum* (Muhl. ex Ell.) Freckm. var. *strigosum***

det. R. Carter

occasional locally

**21406 [1] Poaceae *Schizachyrium scoparium* (Michx.) Nash var. *stoloniferum* (Nash) Wipff**

det. R. Carter  
occasional

**21407 [1]** Asteraceae *Symphyotrichum dumosum* (L.) G.L. Nesom  
det. R. Carter  
common

**21408 [1]** Portulacaceae *Portulaca biloba* Urb.  
det. R. Carter  
rare, occasional locally

**21409 [5]** Oxalidaceae *Oxalis*  
locally common, corolla magenta

**Richard Carter** with R. L. Mears  
**U.S.A. Georgia: Charlton County**  
**30.92401N/82.09129W**  
6.4 mi NW Homeland jct. hwys. US 1 and US 301, Spanish Creek wetland along E side Hwy. US 1  
--shallow depression  
with *Nyssa biflora*, *N. ogeche*, *Acer rubrum*, *Pinus elliottii*, *Cyrilla racemiflora*, *Myrica cerifera*, *Hypericum fasciculatum*, *Oxypolis filiformis*, *Nymphaea odorata*

**21410 [2]** Xyridaceae *Xyris jupicai* Rich.  
det. R. Carter  
locally common

**21411 [1]** Xyridaceae *Xyris fimbriata* Ell.  
det. R. Carter  
locally common

**21412 [2]** Xyridaceae *Xyris platylepis* Chapm.  
det. R. Carter  
locally common

**21413 [2]** Cyperaceae *Rhynchospora corniculata* Lam.  
det. R. Carter  
locally common

**21414 [3]** Cyperaceae *Eleocharis melanocarpa* Torr.  
det. R. Carter  
local, forming large clumps

**Richard Carter** with R. L. Mears  
**30.86136N/82.0116W**  
Homeland, W side Hwy. US 1, at jct. hwys. US 1 and US 301  
--mowed roadside adjacent to low flatwoods, sandy soil  
with *Hypericum cistifolium*, *Gratiola pilosa*, *Hedyotis uniflora*, *Erigeron vernus*, *Lachnocaulon anceps*,  
*Syngonanthus flavidulus*, *Rhexia mariana*, *Lachnanthes caroliniana*, *Lobelia paludosa*

**21415 [2]** Cyperaceae *Rhynchospora fernaldii* Gale  
det. R. Carter  
local

**21416 [2]** Cyperaceae *Rhynchospora wrightiana* Boeckl.  
det. R. Carter  
local

10/15/2013

Richard Carter with W. W. Baker

U.S.A. Georgia: Decatur County

30.73584N/84.75677W

0.17 mi N jct. Faceville Rd. (Hwy. GA 97) and Davis Ln., along NW side of Davis Ln.

--degraded upland with *Pinus elliottii* and *P. taeda* over sandy loam

**21418 [2]** Asteraceae *Symphyotrichum oolentangiense* (Riddell) G.L. Nesom

det. R. Carter

locally common

**21419 [3]** Fabaceae *Baptisia megacarpa* Chapm. ex Torr. & A. Gray

det. R. Carter

occasional

**21420 [4]** Scrophulariaceae *Agalinis obtusifolia* Raf.

det. R. Carter

locally common, sprawling herb

**21421 [2]** Asteraceae *Prenanthes serpentaria* Pursh

det. R. Carter

**21422 [3]** Poaceae *Andropogon gyrans* Ashe var. *gyrans*

det. R. Carter

occasional in well drained sandy soil

**21423 [1]** Poaceae *Andropogon gyrans* Ashe var. *gyrans*

det. R. Carter

occasional in well drained sandy soil

**21424 [1]** Poaceae *Aristida purpurascens* Poir. var. *purpurascens*

det. R. Carter

locally common

**21425 [1]** Poaceae *Sporobolus compositus* (Poir.) Merr. var. *clandestinus* (Biehler) Wipff & S.D. Jones

det. R. Carter

infrequent

**21426 [2]** Poaceae *Andropogon scoparium* (Michx.) Nash var. *stoloniferum* (Nash) Wipff

det. R. Carter

common

**21427 [1]** Poaceae *Aristida stricta* Michx.

det. R. Carter

infrequent, local

**21428 [3]** Lamiaceae *Trichostema dichotomum* L.

det. R. Carter

occasional, corolla blue

**21429 [1]** Scrophulariaceae *Agalinis*

det. R. Carter

occasional

**21430 [1]** Asteraceae *Eupatorium hyssopifolium* L.

det. R. Carter  
common

**21431** [1] Asteraceae *Conoclinium coelestinum* L.  
det. R. Carter  
occasional; heads blue

**21432** [1] Asteraceae *Conoclinium coelestinum* L.  
det. R. Carter  
occasional; heads blue

**21433** [1] Asteraceae *Symphyotrichum dumosum* (L.) G.L. Nesom  
det. R. Carter  
common

**21434** [1] Asteraceae *Bidens alba* (L.) DC.  
det. R. Carter  
occasional; rays creamy white with purple nerves, disk yellow

**21435** [2] Fabaceae *Desmodium rotundifolium* DC.  
det. R. Carter  
stems prostrate, corolla blue

**21436** [1] Asteraceae *Eupatorium compositifolium* Walt.  
det. R. Carter  
locally common

**21437** [2] Asteraceae *Solidago odora* Aiton var. *odora*  
det. R. Carter  
locally common; heads yellow, leaves aromatic

**21438** [3] Asteraceae *Euthamia caroliniana* (L.) Greene ex Port. & Britt.  
det. R. Carter  
locally common, heads yellow

**21439** [2] Asteraceae *Liatris elegantula* (Greene) K. Schum.  
det. R. Carter  
infrequent, heads purple

**21440** [1] Asteraceae *Symphyotrichum undulatum* (L.) G.L. Nesom  
det. R. Carter  
infrequent

**21441** [2] Asteraceae *Chrysopsis mariana* (L.) Ell.  
det. R. Carter  
common

**21442** [2] Asteraceae *Eupatorium semiserratum* DC.  
det. R. Carter  
common

**21443** [2] Asteraceae *Pityopsis graminifolia* (Michx.) Nutt.  
det. R. Carter  
common

**21444** [3] Asteraceae *Ageratina jucunda* (Greene) Clew. & Woot.

det. R. Carter  
occasional, heads white

--sandy ditch bank and drain

**21445 [3]** Selaginellaceae *Selaginella ludoviciana* (A. Braun) A. Braun  
det. R. Carter  
locally common

**Richard Carter** with W. W. Baker

**30.72964N/84.76662W**

Faceville Rd. (Hwy. GA 97), S of North Mosquito Creek, along W side of Faceville Rd.  
--powerline right-of-way and edge of mesic woods

**21446 [4]** Asteraceae *Solidago rugosa* Ait. var. *aspera* (Ait.) Fern.  
det. R. Carter  
locally common, heads yellow

**21447 [2]** Scrophulariaceae *Mecardonia acuminata* (Walt.) Small var. *acuminata*  
det. R. Carter  
locally common, corolla white

**21448 [5]** Celastraceae *Euonymus americanus* L.  
det. R. Carter  
2 m shrub, occasional; fruits and seeds red

**Richard Carter** with W. W. Baker

**30.74391N/84.75224W**

Davis Lane, just SE of jct. James B. White Rd. and Davis Ln.  
--ditch, moist loamy clay

**21449 [5]** Araceae *Alocasia macrorrhizos* (L.) G. Don  
det. R. Carter  
locally abundant

**Richard Carter** with W. W. Baker

**30.74512N/84.74673W**

0.38 mi W jct. Davis Ln. and Recovery Rd., along S side Davis Ln.  
--margin of karst pond

**21450 [6]** Cyperaceae *Eleocharis robbinsii* Oakes  
det. R. Carter  
locally abundant, emergent in shallow water

**21451 [8]** Asteraceae *Eupatorium leptophyllum* DC.  
det. R. Carter  
locally common

**21452 [2]** Mayacaceae *Mayaca fluviatilis* Aubl.  
det. R. Carter  
locally common, submersed in shallow water

**21453 [1]** Hypericaceae *Hypericum nitidum* Lam.  
det. R. Carter  
locally common

**21454 [4]** Cyperaceae *Rhynchospora sulcata* Gale  
 det. R. Carter  
 locally common

**21455 [3]** Cyperaceae *Rhynchospora nitens* (Vahl) A. Gray [*Psilocarya nitens* (Vahl) A. Wood]  
 det. R. Carter  
 locally common

**21455a [1]** Poaceae *Panicum verrucosum* Muhl.  
 det. R. Carter  
 locally common

**21455b [2]** Cyperaceae *Fuirena squarrosa* Michx.  
 det. R. Carter  
 locally common

**21455c [2]** Onagraceae *Ludwigia linearis* Walt.  
 det. R. Carter  
 locally common

**21455d [2]** Asteraceae *Euthamia caroliniana* (L.) Greene ex Port. & Britt.  
 det. R. Carter  
 locally common, heads yellow

**21455e [2]** Menyanthaceae *Nymphoides cordata* (Ell.) Fern.  
 det. R. Carter  
 locally common, leaves floating in shallow water

**10/16/2013**  
**Richard Carter** with Frankie Snow  
**U.S.A. Georgia: Coffee County**  
**31.73309N/82.85473W**  
 Broxton Rocks Nature Conservancy Preserve, along SW side of branch, N of Rockhouse Falls  
 --sandstone outcrop  
 with *Chionanthus virginicus*, *Vaccinium arboreum*, *V. elliottii*, *Osmanthus americanus*, *Pinus taeda*,  
*Liquidambar styraciflua*, *Rhus copallina*, *Hypericum hypericoides*, *Callicarpa americana*, *Rubus*,  
*Gelsemium sempervirens*, *Smilax glauca*, *Vitis rotundifolia*, *Parthenocissus quinquefolia*, *Allium bivalve*,  
*Bigelowia nuttallii*, *Penstemon dissectus*, *Crotonopsis elliptica*, *Ophioglossum nudicaule*, *Evolvulus*  
*sericeus*, *Steinchisma hians*, *Scutellaria parvula*, *Panicum anceps rhizomatum*, *Centrosema nictitans*,  
*Chamaecrista nictitans*, *Paspalum setaceum*, *Polygala curtisiae*, *Diodia teres*, *Drosera brevifolia*, *Xyris*  
*flabelliformis*

**21456 [8]** Oxalidaceae *Oxalis*  
 plants locally common; corolla fuschia-magenta

**21457 [1]** Selaginellaceae *Selaginella acanthonota* L. Underw.  
 det. R. Carter  
 locally common

--slope with degraded mixed pine hardwood forest

**21458 [1]** Rosaceae *Agrimony incisa* Torr. & A. Gray  
 det. R. Carter  
 plants infrequent and local

--along west bank of creek

**21459 [1]** Poaceae *Danthonia sericea* Nuttall

det. R. Carter

locally common in shallow sandy soil over rock along stream just above fall

--sandstone outcrop

with *Chionanthus virginicus*, *Vaccinium arboreum*, *V. ellottii*, *Osmanthus americanus*, *Pinus taeda*, *Liquidambar styraciflua*, *Rhus copallina*, *Hypericum hypericoides*, *Callicarpa americana*, *Rubus*, *Gelsemium sempervirens*, *Smilax glauca*, *Vitis rotundifolia*, *Parthenocissus quinquefolia*, *Allium bivalve*, *Bigelowia nuttallii*, *Penstemon dissectus*, *Crotonopsis elliptica*, *Ophioglossum nudicaule*, *Evolvulus sericeus*, *Steinchisma hians*, *Scutellaria parvula*, *Panicum anceps rhizomatum*, *Centrosema nictitans*, *Chamaecrista nictitans*, *Paspalum setaceum*, *Polygala curtisii*, *Diodia teres*, *Drosera brevifolia*, *Xyris flabelliformis*

**21460 [1]** Scrophulariaceae *Agalinis obtusifolia* Raf.

det. R. Carter

locally common; corolla purplish pink

--shaded woods

**21461 [1]** Scrophulariaceae *Agalinis purpurea* (L.) Pennell

det. R. Carter

plants infrequent and local

--slope with degraded mixed pine hardwood forest

**21462 [1]** Fabaceae *Desmodium lineatum* DC.

det. R. Carter

plants occasional; stems prostrate

**21463 [2]** Poaceae *Gymnopogon ambiguus* (Michx.) Britt. et al.

det. R. Carter

plants occasional

**Richard Carter**

**U.S.A. Georgia: Lanier County**

**31.04926N/83.06522W**

N Lakeland, E of Hwy. GA 135, via N Linda St.

--degraded sandridge

**21464 [2]** Asteraceae *Pseudognaphalium obtusifolium* (L.) Hilliard & Burtt

det. R. Carter

occasional

**21465 [1]** Scrophulariaceae *Agalinis fasciculata* (Ell.) Raf.

det. R. Carter

locally common; corolla purplish pink

**10/29/2013**

**Richard Carter** with W. W. Baker

**U.S.A. Georgia: Colquitt County**

**31.12892N/83.83987W**

SW of Moultrie by Lower Meigs Rd., NW quadrant of jct. Lower Meigs Rd. and Tree Farm Rd., "The Hill"

--longleaf pine savanna

with *Pinus palustris*, *Aristida stricta*

**21467** [2] Asteraceae *Symphyotrichum lateriflorum* (L.) Löve & Löve  
det. R. Carter  
common

**21468** [4] Poaceae *Saccharum giganteum* (Walt.) Pers.  
det. R. Carter  
locally common

**21469** [4] Poaceae *Saccharum giganteum* (Walt.) Pers.  
det. R. Carter  
locally common

**21470** [2] Poaceae *Andropogon virginicus* L. var. *decipiens* C.S. Campb.  
det. R. Carter  
locally common

**21471** [2] Asteraceae *Eupatorium leucolepis* (DC) Torr. & A. Gray  
det. R. Carter  
common, heads white

**21472** [3] Asteraceae *Bigelowia nudata* (Michx.) DC subsp. *nudata*  
det. R. Carter  
locally common, heads yellow

**21473** [2] Asteraceae *Solidago fistulosa* Mill.  
det. R. Carter  
common, heads yellow

**21474** [2] Asteraceae *Euthamia caroliniana* (L.) Greene ex Port. & Britt.  
det. R. Carter  
common, heads yellow

**21475** [3] Poaceae *Saccharum baldwinii* Spreng.  
det. R. Carter  
locally common

**21476** [6] Asteraceae *Symphyotrichum dumosum* (L.) Nesom  
det. R. Carter  
common

**21477** [3] Asteraceae *Eupatorium album* L.  
det. R. Carter  
common, heads white

**21478** [1] Asteraceae *Symphyotrichum dumosum* (L.) Nesom  
det. R. Carter  
common

**21479** [1] Asteraceae *Symphyotrichum lateriflorum* (L.) Löve & Löve  
det. R. Carter  
common

**21480** [2] Asteraceae *Helianthus angustifolius* L.  
det. R. Carter  
common

**21481** [1] Asteraceae *Symphyotrichum lateriflorum* (L.) Löve & Löve  
det. R. Carter  
common

**21482** [1] Poaceae *Dichanthelium leucothrix* (Nash) Freckm.  
det. R. Carter  
locally common

**21483** [2] Poaceae *Andropogon virginicus* L. var. *decipiens* C.S. Campb.  
det. R. Carter  
common

**21484** [1] Fabaceae *Lespedeza capitata* Michx.  
det. R. Carter  
locally common

**21485** [1] Asteraceae *Carphephorus paniculatus* (J.F. Gmel.) H. Herbert  
det. R. Carter  
common, heads blue

**21486** [1] Cyperaceae *Rhynchospora ciliaris* (Michx.) C. Mohr  
det. R. Carter  
occasional

**21487** [1] Convolvulaceae *Cuscuta compacta* Juss. ex Choisy  
det. R. Carter  
occasional, achlorophyllous vine

**21488** [2] Poaceae *Andropogon virginicus* L. var. *decipiens* C.S. Campb.  
det. R. Carter  
locally common

**21489** [2] Asteraceae *Carphephorus odoratissimus* (J.F. Gmel.) H. Herbert  
det. R. Carter  
locally common, heads blue, plants aromatic

**21490** [3] Cyperaceae *Scleria ciliata* Michx. var. *glabra* (Chapm.) Fairey  
det. R. Carter  
occasional

**21491** [2] Poaceae *Aristida stricta* Michx.  
det. R. Carter  
common, plants in large tufts

**21492** [2] Poaceae *Schizachyrium scoparium* (Michx.) Nash var. *scoparium*  
det. R. Carter  
locally common

**21493** [1] Osmundaceae *Osmunda cinnamomea* L.  
det. R. Carter  
locally common

**21494** [4] Asteraceae *Symphyotrichum adnatum* (Nutt.) G.L. Nesom  
det. R. Carter  
occasional

**21495** [1] Asteraceae *Pityopsis aspera* (Shuttlew. ex Small) Small var. *aspera*  
det. R. Carter  
occasional, heads yellow

**21496** [2] Apiaceae *Angelica dentata* (Chapm. ex Torr. & A. Gray) Coulter & Rose  
det. R. Carter  
locally common

**21497** [1] Hypericaceae *Hypericum setosum* L.  
det. R. Carter  
occasional

**21498** [2] Asteraceae *Ageratina jucunda* (Greene) Clewell & Wooten  
det. R. Carter  
common, heads white

**21499** [1] Asteraceae *Helianthus radula* (Pursh) Torr. & A. Gray  
det. R. Carter  
locally common

**21500** [1] Asteraceae *Liatris elegantula* (Greene) K. Schum.  
det. R. Carter  
locally common, heads blue

**21501** [2] Asteraceae *Sympyotrichum concolor* (L.) G.L. Nesom  
det. R. Carter  
occasional

**21502** [3] Scrophulariaceae *Agalinis purpurea* (L.) Pennell  
det. R. Carter  
occasional

**Richard Carter** with W. W. Baker  
**31.12738N/83.84164W**  
SW of Moultrie by Lower Meigs Rd., NW quadrant of jct. Lower Meigs Rd. and Tree Farm Rd., "The Hill"  
--longleaf pine savanna  
with *Pinus palustris*, *Aristida stricta*

**21503** [3] Poaceae *Sorghum bicolor* (L.) Moench. subsp. *bicolor*  
det. R. Carter  
locally common in disturbed game plot

**21504** [3] Poaceae *Pennisetum glaucum* (L.) R. Br.  
det. R. Carter  
locally common in disturbed game plot

**21505** [1] Hypericaceae *Hypericum nitidum* Lam.  
det. R. Carter  
locally common

**21506** [1] Campanulaceae *Lobelia flaccidifolia* Small  
det. R. Carter  
occasional, corolla blue

**21507** [1] Onagraceae *Gaura filipes* Spach

det. R. Carter  
occasional

**21508** [1] Asteraceae *Solidago patula* Muhl. ex Willd.  
det. R. Carter  
locally common, heads yellow

**21509** [1] Asteraceae *Solidago canadensis* L.  
det. R. Carter  
locally common, heads yellow

**21510** [1] Asteraceae *Eupatorium perfoliatum* L.  
det. R. Carter  
locally common, heads white

**21511** [1] Poaceae *Sporobolus junceus* (P. Beauv.) Kunth  
det. R. Carter  
common

**21512** [2] Poaceae *Andropogon gyrans* Ashe  
det. R. Carter  
occasional

**21513** [1] Asteraceae *Sympyotrichum dumosum* (L.) G.L. Nesom  
Common  
det. R. Carter

**21514** [3] Apiaceae *Oxypolis rigidior* (L.) Raf.  
det. R. Carter  
locally common

**21515** [2] Pedaliaceae *Sesamum orientale* L.  
det. R. Carter  
local in disturbed game plot

**Richard Carter** with W. W. Baker  
**31.04436N/83.5941W**  
2.6 mi SE Berlin, N side of Hwy. 133  
--creek bottom, clayey loam substrate  
with *Nyssa biflora*, *N. ogeche*, *Acer rubrum*, *Pinus elliottii*, *Magnolia virginiana*, *Quercus laurifolia*, *Q. nigra*, *Cyrilla racemiflora*, *Cephalanthus occidentalis*, *Baccharis halimifolia*, *Itea virginica*, *Ligustrum sinense*, *Woodwardia areolata*, *Saururus cernuus*, *Gel*

**21516** [3] Asteraceae *Sympyotrichum pilosum* (Willd.) G.L. Nesom  
det. R. Carter  
common

**21517** [10] Poaceae *Phanopyrum gymnocarpon* (Ell.) Nash  
det. R. Carter  
locally common

3/18/2014  
**Richard Carter** with F. Snow  
**U.S.A. Georgia: Coffee County**  
**31.73309N/82.85503W**

Broxton Rocks Nature Preserve, ca. 450 m E of Rocky Creek Rd, ca. 200 m NW Rock House Falls,  
outcrop along W side Rocky Creek  
--flat, mostly open expanse of rock

**21551 [2]** Commelinaceae *Tradescantia hirsuticaulis* Small  
det. R. Carter  
occasional, corolla blue

**21552 [1]** Poaceae *Dichanthelium strigosum* (Muhl. ex Ell.) Freckm. var. *leucoblepharis* (Trin.) Freckm.  
[*Panicum ciliatum* Elliott]  
det. R. Carter  
common

**21553 [1]** Rubiaceae *Houstonia pusilla* Schoepf  
det. R. Carter  
common, corolla blue

**21554 [1]** Asteraceae *Packera anonyma* Weber & Löve [*Senecio anomynus* Wood]  
det. R. Carter  
common, heads yellow

**21555 [2]** Ericaceae *Vaccinium corymbosum* L.  
det. R. Carter  
shrub, 1-2 m tall, common, corolla white

**Richard Carter** with F. Snow  
**31.73267N/82.85485W**  
Broxton Rocks Nature Preserve, ca. 350 m E of Rocky Creek Rd, ca. 150 m WNW Rock House Falls  
--degraded longleaf pine-wiregrass savanna

**21556 [1]** Gelsemiaceae *Gelsemium sempervirens* (L.) Ait.  
det. R. Carter  
vine, common, corolla yellow

**Richard Carter** with F. Snow  
**31.74279N/82.86499W**  
Broxton Rocks Nature Preserve, ca. 400 m W of Rocky Creek Rd, burn unit 8, vic. "Falling Down Rock"  
--thin soil over sandstone

**21557 [1]** Oxalidaceae *Oxalis*  
locally common  
  
--degraded longleaf pine-wiregrass savanna

**21558 [1]** Ericaceae *Vaccinium darropii* Camp  
det. R. Carter  
low shrub, common, ca. 5 dm tall, corolla rose-tinted white

**21559 [1]** Ericaceae *Vaccinium myrsinites* Lam.  
det. R. Carter  
low shrub, common, ca. 5 dm tall, corolla rose-tinted white

**21560 [1]** Ericaceae *Vaccinium corymbosum* L.  
det. R. Carter  
shrub, 1 m tall, common, corolla white

**21561 [2]** Oleaceae *Osmanthus americanus* (L.) Benth. & Hook. f. ex Gray  
 det. R. Carter  
 small tree, common, ca. 6 m tall, corolla white, flowers fragrant

**Richard Carter** with F. Snow  
**31.74168N/82.86523W**  
 Broxton Rocks Nature Preserve, ca. 450 m W of Rocky Creek Rd, burn unit 8  
 --mesic woods, mixed pine-hardwood along base of sandstone outcrop

**21562 [1]** Caprifoliaceae *Lonicera sempervirens* L.  
 det. R. Carter  
 vine, occasional, corolla red

**21563 [4]** Rosaceae *Amelanchier arborea* (Michx.) Fern.  
 det. R. Carter  
 tree, 6-8 m tall, 12 cm dbh, occasional

**Richard Carter** with F. Snow  
**31.74854N/82.86083W**  
 Broxton Rock Nature Preserve, ca. 0.20 airmile SE of confluence of east and west branches of Rocky Creek, along E side of Rocky Creek Rd, between road and rock cliff  
 --degraded upland woods

**21564 [3]** Rosaceae *Prunus umbellata* Elliott  
 det. R. Carter  
 tree, ca. 6 m tall, occasional, flowers white

**21565 [3]** Lauraceae *Sassafras albidum* (Nutt.) Nees  
 det. R. Carter  
 tree, ca. 8 m tall, occasional, flowers yellowish green, inner bark aromatic

**21566 [1]** Hippocastanaceae *Aesculus pavia* L.  
 det. R. Carter  
 shrub, ca. 2 m tall, occasional to locally common, corolla red

**21567 [1]** Rosaceae *Rubus flagellaris* Willd.  
 det. R. Carter  
 common, flowers white

**Richard Carter** with F. Snow  
**31.75009N/82.86211W**  
 Broxton Rock Nature Preserve, along E side of Rocky Creek Rd, just S of confluence of Rocky Creek and branch from the west  
 --slope with degraded mesic woods

**21568 [2]** Symplocaceae *Symplocos tinctoria* (L.) L'Her.  
 det. R. Carter  
 shrub 3-4 m tall, locally common

**Richard Carter** with F. Snow  
**31.73635N/82.85597W**  
 Broxton Rock Nature Preserve, 0.32 airmile NNW of Rock House Falls, 0.25 mi ESE of Rocky Creek Rd to end of jeep trail  
 --sandy knoll  
 with *Pinus palustris*, *P. echinata*

**21569** [4] Pinaceae *Pinus echinata* Mill.  
det. R. Carter  
tree, 1 ft dbh, local

**Richard Carter** with F. Snow  
**31.72795N/82.85808W**

Broxton Rock Nature Preserve, ca. 0.6 mi ENE of NW entrance to preserve by Rocky Creek Rd, along E side of Rocky Creek Rd  
--degraded secondary woods, mixed pine-hardwood

**21570** [1] Rosaceae *Malus angustifolia* (Ait.) Michx.  
det. R. Carter  
understory tree, 3 in dbh, infrequent and local, corolla rose-pink

**4/19/2014**

**Richard Carter** with F. Snow  
**U.S.A. Georgia: Coffee County**  
**31.7284N/82.86159W**

Broxton Rocks Nature Preserve, 0.25 mi E of SW entrance to Preserve by Rocky Creek Rd, ca. 200 m N of Rocky Creek Rd  
--degraded seepage bog below longleaf pine-wiregrass savanna, recently burned, ca. 4 weeks post-fire

**21571** [1] Osmundaceae *Osmunda cinnamomea* L.  
det. R. Carter  
plants common, forming large isolated clumps

**21572** [1] Violaceae *Viola primulifolia* L.  
det. R. Carter  
common

**21573** [1] Hypoxidaceae *Hypoxis sessilis* L.  
det. R. Carter  
occasional, flowers yellow

**21574** [4] Cyperaceae *Carex venusta* Dewey  
det. R. Carter  
infrequent, but locally common, cespitose

**Richard Carter** with F. Snow  
**31.72739N/82.86268W**

Broxton Rocks Nature Preserve, 0.25 mi E of SW entrance to Preserve by Rocky Creek Rd, ca. 100 m N of Rocky Creek Rd  
--degraded longleaf pine-wiregrass savanna grading into a seepage bog, recently burned, ca. 4 weeks post-fire  
with *Pinus palustris*, *Aristida stricta*

**21575** [1] Cyperaceae *Carex complanata* Torr. & Hook.  
det. R. Carter  
occasional, cespitose

**21576** [1] Poaceae *Dichanthelium tenue* (Muhl.) Freckm. & Lelong  
det. R. Carter  
common

**21577** [2] Euphorbiaceae *Euphorbia exserta* (Small) Coker  
det. R. Carter

**infrequent**

**21578** [1] Polygalaceae *Polygala nana* (Michx.) DC.

det. R. Carter

common, corolla yellow, roots aromatic

**Richard Carter** with F. Snow

**31.72649N/82.86478W**

Broxton Rocks Nature Preserve, 0.10 mi E of SW entrance to Preserve by Rocky Creek Rd  
--degraded longleaf pine-wiregrass savanna, disturbed sandy upland

**21579** [1] Scrophulariaceae *Nuttallanthus canadensis* (L.) Sutton [*Linaria canadensis* (L.) Chaz.]

det. R. Carter

common, corolla blue

**21580** [1] Asteraceae *Krigia virginica* (L.) Willd.

det. R. Carter

common, heads yellow

**21581** [1] Polygonaceae *Rumex hastatulus* Baldwin

det. R. Carter

common

**21582** [1] Campanulaceae *Wahlenbergia marginata* (Thunb.) DC.

det. R. Carter

common, corolla blue

**21583** [1] Poaceae *Danthonia sericea* Nutt.

det. R. Carter

common

**Richard Carter** with F. Snow

**31.73152N/82.85825W**

Broxton Rocks Nature Preserve, 0.80 mi NE of SW entrance to Preserve by Rocky Creek Rd, W side of  
Rocky Creek Rd  
--degraded longleaf pine-wiregrass savanna, slope along N side of creek

**21584** [1] Fabaceae *Baptisia alba* (L.) Vent.

det. R. Carter

occasional, plants 1-1.5 m tall, corolla white

--seep along creek

**21585** [1] Violaceae *Viola lanceolata* L.

det. R. Carter

common, corolla white

**Richard Carter** with F. Snow

**31.73294N/82.85657W**

Broxton Rocks Nature Preserve, 0.80 mi NE of SW entrance to Preserve by Rocky Creek Rd, ca. 200 m  
E of Rocky Creek Rd  
--narrow ecotonal seep over sandstone outcrop below longleaf pine-wiregrass savanna

**21586** [1] Hyacinthaceae *Schoenolirion croceum* (Michx.) Wood

det. R. Carter

occasional, corolla yellow

**21587** [1] Lentibulariaceae *Utricularia cornuta* Michx.

det. R. Carter

common, corolla yellow

**21588** [1] Lentibulariaceae *Utricularia subulata* L.

det. R. Carter

common, corolla yellow

**21589** [1] Poaceae *Dichanthelium strigosum* (Muhl. ex Ell.) Freckm. var. *strigosum*

det. R. Carter

plants cespitose, common

--seepy slope of drain in longleaf pine-wiregrass savanna

**21590** [1] Ericaceae *Eubotrys racemosa* (L.) Nutt. [*Leucothoe racemosa* (L.) Gray]

det. R. Carter

low shrub, less than 5 dm tall, occasional, corolla white

**21591** [1] Ericaceae *Rhododendron canescens* (Michx.) Sweet

det. R. Carter

low shrub, less than 5 dm tall, occasional, corolla pink

**21592** [1] Sarraceniaceae *Sarracenia flava* L.

det. R. Carter

common

--sandstone outcrop, pockets of thin soil

**21593** [1] Poaceae *Agrostis ellottiana* Schult.

det. R. Carter

locally common

**21594** [1] Caryophyllaceae *Minuartia uniflora* (Walter) Mattfield

det. R. Carter

locally common, petals white

--longleaf pine-wiregrass savanna

**21595** [1] Apocynaceae *Amsonia ciliata* Walter

det. R. Carter

occasional, corolla blue

**21596** [1] Rhamnaceae *Ceanothus microphyllus* Michx.

det. R. Carter

common, flowers white

**21597** [2] Ericaceae *Gaylussacia dumosa* (Andr.) Gray

det. R. Carter

low shrub, common, stems ca. 3 dm tall, corolla white

**21598** [1] Fabaceae *Baptisia lanceolata* (Walter) Elliott

det. R. Carter

common herb, aerial shoots ca. 0.5 m tall, corolla yellow

**21599** [1] Ericaceae *Vaccinium stamineum* L.

det. R. Carter

low shrub, common, aerial shoots ca. 5 dm tall, abaxial leaf surface glaucous, corolla white

**Richard Carter** with F. Snow

**31.73226N/82.85347W**

Broxton Rocks Nature Preserve, E of Rocky Creek Rd, ca. Rock House Falls

--edge of sandstone outcrop

**21600** [1] Bignoniaceae *Bignonia capreolata* L.

det. R. Carter

vine, occasional reddish orange

**21601** [1] Cyperaceae *Carex floridana* Schwein.

det. R. Carter

common, cespitose

**Richard Carter** with F. Snow

**31.73318N/82.85463W**

Broxton Rocks Nature Preserve, E of Rocky Creek Rd, glade ca. 150 m NW of Rock House Falls

--open expanse of ±flat sandstone with pockets of thin soil and occasional deep fissures

**21602** [1] Asteraceae *Packera anonyma* (Wood) Weber & Löve [*Senecio anonymous* Wood]

det. R. Carter

common, heads yellow

**21603** [1] Poaceae *Dichanthelium strigosum* (Muhl. ex Ell.) Freckm. var. *leucoblepharis* (Trin.) Freckm.

[*Panicum ciliatum* Elliott]

det. R. Carter

common, cespitose

**21604** [1] Lamiaceae *Scutellaria parvula* Michx.

det. R. Carter

locally common, corolla blue

**21605** [1] Poaceae *Dichanthelium strigosum* (Muhl. ex Ell.) Freckm. var. *leucoblepharis* (Trin.) Freckm.

det. R. Carter

common, cespitose

**21606** [1] Oleaceae *Chionanthus virginicus* L.

det. R. Carter

shrub, 4-5 m tall, profusely flowering, flowers white

**21607** [1] Asteraceae *Gamochaeta antillana* (Urb.) Anderb.

det. R. Carter

occasional

**21608** [1] Asteraceae *Gamochaeta pensylvanica* (Willd.) Cabr.

det. R. Carter

occasional

**21609** [2] Plantaginaceae *Plantago virginica* L.

det. R. Carter

locally abundant

**21610** [1] Asteraceae *Facelis retusa* (Lam.) Sch. Bip.

det. R. Carter

occasional

**Richard Carter** with F. Snow

**31.73293N/82.85814W**

Broxton Rocks Nature Preserve, 0.80 mi NE of SW entrance to Preserve by Rocky Creek Rd, along E side of Rocky Creek Rd

--ephemeral pool in shallow depression of open expanse of sandstone

**21611 [1]** Isoetaceae *Isoetes "snowii"* sp. nov., fide Lytton Musselman  
locally common

**Richard Carter** with F. Snow

**31.75499N/82.85383W**

Broxton Rocks Nature Preserve, N end of Preserve, 0.43 airmile S jct. Rocky Creek Rd and Hwy GA 107, E of Rocky Creek Rd

--edge of sandstone outcrop

**21612 [2]** Ericaceae *Rhododendron canescens* (Michx.) Sweet  
mutant form  
det. R. Carter  
shrub, ca. 2 m tall, local, flowers pink

**21613 [2]** Ericaceae *Rhododendron canescens* (Michx.) Sweet  
det. R. Carter  
shrub, ca. 2 m tall, common, flowers pink

**Richard Carter** with F. Snow

**31.75397N/82.85355W**

Broxton Rocks Nature Preserve, N end of Preserve, 0.50 airmile S jct. Rocky Creek Rd and Hwy GA 107, E of Rocky Creek Rd  
--sandstone outcrop, pockets of thin soil

**21614 [2]** Geraniaceae *Geranium carolinianum* L.  
det. R. Carter  
occasional, corolla pink

**21615 [1]** Asteraceae *Gamochaeta argyrinea* Nesom  
det. R. Carter  
occasional

--mesic woods along creek, below sandstone outcrop

**21616 [2]** Rosaceae *Crataegus marshallii* Eggl.  
det. R. Carter  
understory tree, occasional, corolla white

**5/16/2014**

**Richard Carter** with F. Snow

**U.S.A. Georgia: Coffee County**

**31.7320N/82.85855W**

Broxton Rock Nature Preserve, ca. 0.85 mi NE of SW entrance to preserve by Rocky Creek Rd, along W side Rocky Creek Rd

--disturbed sandy loam along creek

**21617 [2]** Cyperaceae *Carex complanata* Torr. & Hook.

det. R. Carter  
occasional

**21618 [1]** Asteraceae *Gamochaeta purpurea* (L.) Cabr.  
det. R. Carter  
occasional

**21619 [1]** Cyperaceae *Scleria pauciflora* Muhl. ex Willd var. *pauciflora*  
det. R. Carter  
occasional

**21620 [2]** Poaceae *Dichanthelium ovale* (Ell.) Gould & Clark subsp. *pseudopubescens* (Nash) Freckm. &  
Lelong  
det. R. Carter  
common

--disturbed sandy loam above creek

**21621 [4]** Fabaceae *Baptisia alba x lanceolata*  
det. R. Carter  
plant ca. 1.5 m tall, rare and local, corolla yellow

--disturbed sandy loam along creek

**21622 [1]** Liliaceae *Aletris obovata* Nash  
det. R. Carter  
occasional, flowers white

**21623 [1]** Eriocaulaceae *Lachnocaulon anceps* (Walt.) Morong  
det. R. Carter  
common, cespitose

**21624 [1]** Poaceae *Dichanthelium scabriusculum* (Ell.) Gould & Clark  
det. R. Carter  
common

**21625 [1]** Juncaceae *Juncus elliotii* Chapm.  
det. R. Carter  
common in moist sand along creek

**Richard Carter** with F. Snow

**31.7327N/82.85833W**

Broxton Rock Nature Preserve, ca. 0.85 mi NE of SW entrance to preserve by Rocky Creek Rd, along E side Rocky Creek Rd, vic. Snow's Glade  
--seasonally wet, shallow pool over sandstone

**21626 [1]** Isoetaceae *Isoetes "snowii"* sp. nov., fide Lytton Musselman  
plants locally common, emergent in shallow water

**21627 [1]** Poaceae *Dichanthelium ovale* (Ell.) Gould & Clark subsp. *pseudopubescens* (Nash) Freckm. &  
Lelong  
det. R. Carter  
common along edge of pool

**21628 [1]** Poaceae *Dichanthelium leucothrix* (Nash) Freckm.  
det. R. Carter

plants common, cespitose

**21629 [3]** Cyperaceae *Rhynchospora rariflora* (Michx.) Ell.

det. R. Carter

locally common, cespitose

--open, flat sandstone outcrop

**21630 [1]** Cyperaceae *Rhynchospora globularis* (Chapm.) Small var. *saxicola* (Small) Kük.

det. R. Carter

locally common

**21631 [1]** Cyperaceae *Rhynchospora globularis* (Chapm.) Small var. *saxicola* (Small) Kük.

det. R. Carter

locally common

--ecotone between longleaf pine-wiregrass savanna and sandstone outcrop

**21632 [1]** Asclepiadaceae *Asclepias michauxii* Decn.

det. R. Carter

occasional

--seasonally wet, shallow pool over sandstone

**21633 [1]** Poaceae *Steinchisma hians* (Ell.) Nash [*Panicum hians* Elliott]

det. R. Carter

common

**21634 [1]** Eriocaulaceae *Eriocaulon texense* Korn.

det. R. Carter

common, cespitose

**21635 [1]** Lentibulariaceae *Utricularia cornuta* Michx.

det. R. Carter

common, corolla yellow

**21636 [1]** Droseraceae *Drosera capillaris* Poir.

det. R. Carter

common, corolla pink

--ecotone between longleaf pine-wiregrass savanna and sandstone outcrop

**21637 [1]** Scrophulariaceae *Penstemon dissectus* Elliott

det. R. Carter

locally common, corolla lavender-rose, white ventrally

**21638 [1]** Aquifoliaceae *Ilex glabra* (L.) Gray

det. R. Carter

shrub 1.5 m tall, common

**21639 [1]** Poaceae *Dichanthelium strigosum* (Muhl. ex Ell.) Freckm. subsp. *strigosum*

det. R. Carter

common

**21640 [1]** Poaceae *Dichanthelium sphaerocarpon* (Elliott) Gould

det. R. Carter

common

**Richard Carter** with F. Snow

**31.74606N/82.85845W**

Broxton Rocks Nature Preserve, ca. 1.8 mi NE of SW entrance to preserve by Rocky Creek Rd, E of Rocky Creek Rd, along east branch of Rocky Creek

--floodplain

with *Nyssa biflora*, *N. ogeche*, *Magnolia virginiana*, *Liriodendron tulipifera*, *Acer rubrum*, *Liquidambar styraciflua*, *Quercus laurifolia*, *Ulmus americana*, *Pinus taeda*, *Rhododendron canescens*, *Vaccinium elliottii*

**21641** [2] Cyperaceae *Carex intumescens* Rudge

det. R. Carter

common, cespitose

**21642** [3] Cyperaceae *Carex intumescens* Rudge

det. R. Carter

common, cespitose

**21643** [1] Poaceae *Dichanthelium sphaerocarpon* (Elliott) Gould

det. R. Carter

common

**21644** [3] Cyperaceae *Carex debilis* Michx.

det. R. Carter

common, cespitose

**21645** [1] Cyperaceae *Eleocharis tuberculosa* Michx.

det. R. Carter

occasional, cespitose

**21646** [1] Cyperaceae *Carex festucacea* Schukhr ex Willd.

det. R. Carter

occasional

--floodplain, edge of clearcut along edge of floodplain

with *Nyssa biflora*, *N. ogeche*, *Magnolia virginiana*, *Liriodendron tulipifera*, *Acer rubrum*, *Liquidambar styraciflua*, *Quercus laurifolia*, *Ulmus americana*, *Pinus taeda*, *Rhododendron canescens*, *Vaccinium elliottii*

**21647** [1] Juncaceae *Juncus marginatus* Rostk.

det. R. Carter

occasional

**Richard Carter** with F. Snow

**31.74617N/82.86007W**

Broxton Rocks Nature Preserve, ca. 1.8 mi NE of SW entrance to preserve by Rocky Creek Rd, along E side of Rocky Creek Rd

--outcrop along west side of creek

**21648** [4] Ranunculaceae *Clematis reticulata* Walter

det. R. Carter

occasional vine

**21649** [1] Alliaceae *Allium cuthbertii* Small

det. R. Carter

common, flowers white

**21650 [1]** Asteraceae *Lactuca graminifolia* Michx.

det. R. Carter

occasional

--mesic slope below outcrop along west side of creek

**21651 [2]** Ericaceae *Vaccinium arboreum* Marshall

det. R. Carter

shrub 2-3 m tall, common, flowers white

**21652 [2]** Cyperaceae *Carex debilis* Rudge

det. R. Carter

occasional, cespitose

**21653 [2]** Poaceae *Dichanthelium ravenelii* (Scribn. & Merr.) Gould

det. R. Carter

common

**21654 [1]** Asteraceae *Gamochaeta calviceps* (Fern.) Cabr.

det. R. Carter

occasional, on boulder

**21655 [1]** Poaceae *Dichanthelium commutatum* (Schult.) Gould subsp. *commutatum*

det. R. Carter

common

--outcrop along west side of creek

**21656 [1]** Selaginellaceae *Selaginella arenicola* Underw. subsp. *riddellii* (van Esel.) Tryon

det. R. Carter

common

**21657 [2]** Poaceae *Dichanthelium oligosanthes* (Schult.) Gould subsp. *(Nash) Freckm. & Lelong*

det. R. Carter

common

--mesic slope below outcrop along west side of creek

**21658 [3]** Euphorbiaceae *Ditrysinia fruticosa* (Bartr.) Gov. & Frod. [*Sebastiania fruticosa* (Bartr.) Fern.]

det. R. Carter

shrub 1.5 m tall, common

--outcrop along west side of creek

**21659 [3]** Cyperaceae *Carex complanata* Torr. & Hook.

det. R. Carter

occasional

**Richard Carter** with F. Snow

**31.75001N/82.86327W**

Broxton Rocks Nature Preserve, west branch of Rocky Creek, near confluence of east and west branches of Rocky Creek

--low bluff along W side of west branch of Rocky Creek, mesic woods

with *Quercus alba*, *Q. nigra*, *Nyssa biflora*, *Acer rubrum*, *Pinus glabra*, *P. taeda*, *Cornus florida*, *Symplocos*, *Aesculus pavia*, *Vaccinium elliottii*, *Smilax pumila*

**21660 [1]** Liliaceae *Amianthium muscifoxicum* (Walt.) Gray  
det. R. Carter  
rare and local

**Richard Carter** with F. Snow  
**31.74798N/82.86656W**

Broxton Rocks Nature Preserve, along W side of west branch of Rocky Creek, Corbett Tract, "Chaser Outcrop"  
--edge of sandstone outcrop

**21661 [2]** Cyperaceae *Scleria pauciflora* Muhl. ex Willd var. *caroliniana* A. Wood  
det. R. Carter  
occasional

--sandstone outcrop, see

**21662 [1]** Lentibulariaceae *Pinguicula pumila* Michx.  
det. R. Carter  
locally common, flowers blue

**21663 [2]** Juncaceae *Juncus*  
aff. *Juncus elliottii*: plants annual, 6-13 cm tall  
det. R. Carter  
locally common

--edge of sandstone outcrop

**21664 [1]** Asclepiadaceae *Asclepias longifolia* Michx.  
det. R. Carter  
occasional

**21665 [1]** Orchidaceae *Spiranthes praecox* (Walt.) Wats.  
det. R. Carter  
occasional

--sandstone outcrop

**21666 [1]** Cyperaceae *Rhynchospora globularis* (Chapm.) Small var. *saxicola* (Small) Kük.  
det. R. Carter  
locally common

**21667 [1]** Cyperaceae *Rhynchospora globularis* (Chapm.) Small var. *saxicola* (Small) Kük.  
det. R. Carter  
locally common

**21668 [1]** Cyperaceae *Rhynchospora globularis* (Chapm.) Small var. *saxicola* (Small) Kük.  
det. R. Carter  
locally common

--seep below sandstone outcrop

**21669 [1]** Cyperaceae *Rhynchospora compressa* Carey ex Chapm.  
det. R. Carter

occasional

--sandstone outcrop

**21671 [1]** Cyperaceae *Rhynchospora globularis* (Chapm.) Small var. *saxicola* (Small) Kük.  
det. R. Carter  
locally common

**21672 [1]** Cyperaceae *Rhynchospora plumosa* Elliott  
det. R. Carter  
occasional

**21673 [1]** Cyperaceae *Fimbristylis caroliniana* (Lam.) Fern.  
det. R. Carter  
occasional

**21674 [1]** Eriocaulaceae *Lachnocaulon anceps* (Walt.) Morong  
det. R. Carter  
common, cespitose

**Richard Carter with F. Snow**

**31.74883N/82.86381W**

Broxton Rocks Nature Preserve, Corbett Tract, along west branch of Rocky Creek, ca. 250 m above confluence of east and west branches of Rocky Creek

--Sphagnous seep  
with *Liriodendron*, *Acer rubrum*, *Nyssa biflora*, *Pinus taeda*, *Viburnum dentatum*, *Vaccinium elliottii*, *Lilium superbum*

**21675 [3]** Cyperaceae *Carex lurida* Wahl.  
det. R. Carter  
common, cespitose

**21676 [2]** Cyperaceae *Carex atlantica* Bailey subsp. *capillacea* (Bailey) Rez.  
det. R. Carter  
common, cespitose

**21677 [2]** Juncaceae *Juncus marginatus* Rostk.  
det. R. Carter  
common

**21678 [2]** Eleocharis *tuberculosa* (Michx.) Roem. & Schult.  
det. R. Carter  
common, cespitose

--sphagnous seep and adjacent creekbank  
with *Liriodendron*, *Acer rubrum*, *Nyssa biflora*, *Pinus taeda*, *Viburnum dentatum*, *Vaccinium elliottii*, *Lilium superbum*

**21679 [3]** Iteaceae *Itea virginica* L.  
det. R. Carter  
shrub, 1.5 m tall, common

--mesic woods by sphagnous seep  
with *Liriodendron*, *Acer rubrum*, *Nyssa biflora*, *Pinus taeda*, *Viburnum dentatum*, *Vaccinium elliottii*, *Lilium superbum*

**21680** [1] Aristolochiaceae *Aristolochia serpentaria* L.  
det. R. Carter  
infrequent, roots aromatic, flowers dark maroon

**6/5/2014**  
**Richard Carter** with W. W. Baker, T. Patrick  
**U.S.A. Georgia: Worth County**  
**31.43367N/83.87172W**  
1.20 airmiles S (heading 189.65°) jct. Dothit Rd and Evergreen Rd, Jeffords Place  
--longleaf pine-wiregrass savanna

**21683** [1] Anacardiaceae *Toxicodendron pubescens* Mill.  
det. R. Carter  
low shrub, ca. 5 dm tall, occasional

--seepage bog along drain in longleaf pine-wiregrass savanna

**21684** [1] Sarraceniaceae *Sarracenia minor* Walter  
det. R. Carter  
occasional

**Richard Carter** with W. W. Baker, T. Patrick  
**31.41456N/83.83747W**  
2.38 airmiles S (heading 188.42°) jct. Dothit Rd and Hwy GA 33, E of Hwy GA 33, Jeffords Place  
--longleaf pine-wiregrass savanna

**21685** [1] Euphorbiaceae *Tragia urens* L.  
det. R. Carter  
plant with stinging trichomes, common

**21686** [1] Cyperaceae *Rhynchospora harveyi* Boott  
det. R. Carter  
occasional

**21687** [1] Fabaceae *Pediomelum canescens* (Michx.) Rydb. [*Psoralea canescens* Michx.]  
det. R. Carter  
occasional

**21688** [1] Rhamnaceae *Ceanothus microphyllus* Michx.  
det. R. Carter  
occasional

**21689** [1] Ericaceae *Vaccinium myrsinites* Lam.  
det. R. Carter  
low shrub, clonal, aerial stems 3-4 dm tall, common

--seepage bog along drain in longleaf pine-wiregrass savanna

**21690** [1] Ericaceae *Gaylussacia nana* (Gray) Small  
det. R. Carter  
low shrub, aerial stems to about 1 m tall

**21691** [2] Orchidaceae *Spiranthes praecox* (Walt.) S. Wats.  
det. R. Carter  
common

**21692 [3]** Cyperaceae *Rhynchospora rariflora* (Michx.) Ell.  
det. R. Carter  
common, cespitose

**21693 [1]** Cyperaceae *Eleocharis tortilis* (Link.) Schult.  
det. R. Carter  
common, cespitose

**21694 [2]** Poaceae *Dichanthelium scabriusculum* (Ell.) Gould & Clark  
det. R. Carter  
common

**21695 [1]** Asteraceae *Oclemena reticulata* (Pursh) Nesom [*Aster reticulatus* Pursh]  
det. R. Carter  
common

**Richard Carter** with W. W. Baker, T. Patrick

**U.S.A. Georgia: Colquitt County**  
**31.29169N/83.88699W**

Doerun Pitcherplant Bog Natural Area, 0.57 airmile SE jct. Hagin Still Rd and Hwy GA 133  
--longleaf pine-wiregrass savanna

**21696 [2]** Euphorbiaceae *Tragia urticifolia* Michx.  
det. R. Carter  
occasional

**21697 [1]** Orchidaceae *Spiranthes tuberosa* Raf.  
det. R. Carter  
occasional, flowers white

**6/17/2014**

**Richard Carter** with F. Snow, W. W. Baker  
**U.S.A. Georgia: Coffee County**  
**31.74222N/82.84138W**

Broxton Rocks Preserve, Ricketson Tract, 0.31 airmile SW (241.29°) of right-angle bend in Mobley Rd.  
--seep

**21699 [2]** Eriocaulaceae *Lachnocaulon anceps* (Walt.) Morong  
det. R. Carter  
locally abundant

--longleaf pine-wiregrass savanna, sandy slope adjacent to rock outcrop, site burned about 8 weeks prior  
with *Pinus palustris*, *Aristida stricta*, *Serenoa repens*

**21700 [2]** Apocynaceae *Amsonia ciliata* Walter  
det. R. Carter  
occasional, corolla blue, latex present

**21701 [1]** Polygalaceae *Polygala chapmanii* Torr. & Gray  
det. R. Carter  
occasional, flowers lavender

**21702 [3]** Fabaceae *Tephrosia virginiana* (L.) Pers.  
det. R. Carter  
perennial from woody rootstock, common, standard creamy white, keel and wings pink

**21703 [1]** Oxalidaceae *Oxalis*  
only one plant observed; corolla purple

**21704 [1]** Asclepiadaceae *Asclepias michauxii* Decne  
det. R. Carter  
occasional, plant with latex

**21705 [1]** Fabaceae *Mimosa quadrivalvis* L. var. *angustata* (Torr. & Gray) Barneby  
det. R. Carter  
clambering perennial herb, heads pink, common

--seepage bog along drain in longleaf pine-wiregrass matrix

**21706 [2]** Cyrillaceae *Cyrilla racemiflora* L.  
det. R. Carter  
4 m shrub, common

**21707 [1]** Xyridaceae *Xyris baldwiniana* Schult.  
det. R. Carter  
plants cespitose, common, corolla yellow

**21708 [1]** Melastomataceae *Rhexia lutea* Walter  
det. R. Carter  
plants occasional, corolla yellow

**21709 [2]** Sarraceniaceae *Sarracenia minor* Walter  
det. R. Carter  
plants occasional

**Richard Carter** with F. Snow, W. W. Baker  
**31.74181N/82.84441W**

Broxton Rocks Preserve, Ricketson Tract, 0.48 airmile WSW (bearing 248.72°) of right-angle bend in Mobley Rd.

--seepy drain below outcrop

**21710 [1]** Juncaceae *Juncus marginatus* Rostk.  
det. R. Carter  
occasional, plants in large clumps

**21711 [3]** Cyperaceae *Rhynchospora punctata* Ell.  
det. R. Carter  
plants forming large clumps, occasional

**21712 [1]** Xyridaceae *Xyris baldwiniana* Schult.  
det. R. Carter  
plants cespitose, common, corolla yellow

**21713 [1]** Clusiaceae *Hypericum myrtifolium* Lam.  
det. R. Carter  
plants common, flowers yellow

**Richard Carter** with F. Snow, W. W. Baker  
**U.S.A. Georgia: Jeff Davis County**  
**31.76212N/82.83004W**

Flat Tub Wildlife Management Area along N side Hwy GA 107, ca. 0.4 mi E of county line  
--degraded longleaf pine-wiregrass savanna adjacent to sandstone outcrop, converted to planted pines

**21714 [1]** Asteraceae *Marshallia ramosa* Beadle & Boynton  
 det. R. Carter  
 plants occasional, heads pink

**21715 [1]** Asclepiadaceae *Asclepias cinerea* Walter  
 det. R. Carter  
 plant with latex, occasional, flowers lavender with white undertones

**21716 [1]** Orchidaceae *Spiranthes tuberosa* Raf.  
 det. R. Carter  
 occasional, flowers white

**21717 [1]** Poaceae *Paspalum plicatulum* Michx.  
 det. R. Carter  
 common

**21718 [1]** Chrysobalanaceae *Licania michauxii* Prance  
 det. R. Carter  
 plant clonal and suffrutescent, forming large patches, common

**Richard Carter** with F. Snow, W. W. Baker  
**31.7774N/82.81708W**  
 1.40 mi NW jct. Hwy GA 107 and Dan Kirkland Rd, along E side Dan Kirkland Rd  
 --degraded sandridge  
 with *Quercus laevis*, *Q. incana*, *Serenoa repens*, *Yucca flaccida*, *Aristida stricta*, *Pteridium aquilinum*

**21719 [5]** Annonaceae *Asimina incana* (Bartram) Exell  
 det. R. Carter  
 shrub, ca. 2 m tall, occasional

**Richard Carter** with F. Snow, W. W. Baker  
**31.78479N/82.82118W**  
 Flat Tub Wildlife Management Area, Rocky Hammock Tract, 0.3 mi N jct. Dan Kirkland Rd and Piney  
 Grove Church Rd  
 --degraded sandridge  
 with *Quercus laevis*, *Q. incana*, *Q. margarettae*, *Q. stellata*, *Q. marilandica*, *Q. hemisphaerica*

**21720 [2]** Liliaceae *Nolina georgiana* Michx.  
 det. R. Carter  
 occasional

**21721 [10]** Agavaceae *Yucca filamentosa* L.  
 det. R. Carter  
 common, flowers creamy white

**Richard Carter** with F. Snow, W. W. Baker  
**31.89114N/82.48617W**  
 ENE of Hazlehurst, 0.6 mi ENE jct. John Rentz Rd and Altahama Rd, along N side Altahama Rd  
 --degraded seepage slope with planted pines, recently burned  
 with *Pinus taeda*

**21722 [4]** Asteraceae *Coreopsis delphiniiifolia* Lam.  
 det. R. Carter  
 occasional, heads yellow

**21723 [1]** Eriocaulaceae *Lachnocaulon anceps* (Walt.) Morong  
det. R. Carter  
plants common, cespitose, heads grayish white

**21724 [2]** Cyperaceae *Rhynchospora chalarocephala* Fern. & Gale  
det. R. Carter  
plants locally common, cespitose

**21725 [1]** Alismataceae *Sagittaria graminea* Michx. subsp. *weatherbiana* (Fern.) Hayn. & Hellq.  
det. R. Carter  
plants locally common, with latex

**21726 [3]** Eriocaulaceae *Eriocaulon decangulare* L.  
det. R. Carter  
plants common, heads white

**6/18/2014**

**Richard Carter** with D. Stevenson, W. W. Baker  
**U.S.A. Georgia: Bulloch County**  
**32.41059N/81.89725W**

Stanback Place, 4.0 mi N of Pulaski by Pulaski Rd, then S ca. 0.9 mi by Rosa's Lane  
--longleaf pine-wiregrass savanna, burned ca. 8 weeks prior  
with *Pinus palustris*, *Aristida stricta*, *Quercus laevis*, *Q. margarettae*, *Q. pumila*, *Q. incana*, *Vaccinium stamineum*, *Yucca filamentosa*, *Nolina georgiana*, *Ceanothus microphyllus*, *Pteridium aquilinum*, *Licania michauxii*, *Stillingia sylvatica*, *Rhynchosia tomentosa*, *R. reniformis*, *Galactia erecta*, *Rhynchospora grayi*, *Callisia graminea*, *Commelina erecta*, *Clitoria mariana*, *Stylosanthes biflora*, *Rudbeckia hirta*, *Cnidoscolus stimulosus*, *Orbexilum psoraloides*, *Polygala grandiflora*, *P. lutea*, *P. mariana*, *Rhexia alifanus*, *R. mariana*, *Baptisia perfoliata*, *Dyschoriste oblongifolia*, *Coreopsis delphiniiifolia*, *Piriqueta caroliniana*, *Ipomoea pandurata*, *Mimosa quadrivalvis*, *Tephrosia spicata*, *Asclepias cinerea*, *Psoralea canescens*, *Solidago odora*, *Sympyotrichum walteri*, *Xyris caroliniana*, *Carphephorus odoratissimus*, *Eryngium yuccifolium*, *Spiranthes tuberosa*, *Lespedeza repens*, *Styloodon carneum*, *Sporobolus curtisii*, *Crotalaria purshii*, *Eriogonum tomentosum*, *Sericocarpus tortifolius*, *Amsonia ciliata*

Note: *Gopherus* burrows abundant; *Nolina georgiana* – few plants observed

**21727 [1]** Asclepiadaceae *Asclepias cinerea* Walter  
det. R. Carter  
plants occasional, broken stems and leaves exuding latex, corolla lavender with white undertones

**21728 [1]** Ericaceae *Vaccinium myrsinites* Lam.  
det. R. Carter  
low shrub, < 5 dm tall, clonal, common

**21729 [1]** Fabaceae *Stylosanthes biflora* (L.) Britt. et al.  
det. R. Carter  
occasional, flowers yellow

**21730 [1]** Polygalaceae *Polygala nana* (Michx.) DC.  
det. R. Carter  
occasional, roots aromatic, flowers greenish yellow

**21731 [1]** Clusiaceae *Hypericum suffruticosum* Adams & Robson  
det. R. Carter  
occasional, corolla yellow, petals caducous

**21732 [1]** Linaceae *Linum medium* (Planch.) Britt. var. *texanum* (Planch.) Fern.  
det. R. Carter

common, corolla yellow

**21733** [1] Fabaceae *Crotalaria purshii* DC.  
det. R. Carter  
occasional, corolla yellow

**21734** [1] Turneraceae *Piriqueta cistoides* (L.) Griseb. subsp. *caroliniana* (Walter) Arbo [*Piriquetea caroliniana* (Walter) Urban]  
det. R. Carter  
common, corolla yellow

**21735** [1] Rubiceae *Galium pilosum* Aiton  
det. R. Carter  
plant "lazy" and clambering, common

**21736** [2] Asteraceae *Pterocephalum pycnostachyum* (Michx.) Ell.  
det. R. Carter  
common

**21737** [6] Fabaceae *Baptisia perfoliata* (L.) R. Brown ex Aiton f.  
det. R. Carter  
occasional, corolla yellow

**21738** [1] Polygalaceae *Asemeia grandiflora* (Walter) Small [*Polygala grandiflora* Walter]  
det. R. Carter  
plant occasional, roots aromatic, flowers pink

**21739** [2] Fabaceae *Orbexilum psoralioides* (Walter) Vincent [*Psoralea psoralioides* (Walter) Cory]  
det. R. Carter  
plant occasional, flowers dark blue

**21740** [1] Lamiaceae *Scutellaria incana* Bieler  
"var. 1" in Weakley (2012)  
det. R. Carter  
plant occasional, corolla blue and white

**21741** [2] Fabaceae *Clitoria mariana* L.  
det. R. Carter  
plant occasional, corolla blue and white

**21742** [1] Polemoniaceae *Phlox glaberrima* L.  
det. R. Carter  
plant occasional, corolla blue

**21743** [5] Cyperaceae *Rhynchospora grayi* Kunth  
det. R. Carter  
common

**21744** [2] Cyperaceae *Scleria ciliata* Michx. var. *ciliata*  
det. R. Carter  
common

**21745** [2] Euphorbiaceae *Stillingia sylvatica* L.  
det. R. Carter  
plant suffruticose, stems ca. 5 dm tall, broken stems and leaves exuding latex

**21746** [1] Verbenaceae *Styloodon carneum* (Medik.) Moldenke  
det. R. Carter  
occasional

**21747** [1] Cyperaceae *Cyperus filiculmis* Vahl  
det. R. Carter  
occasional

**21748** [1] Cyperaceae *Cyperus echinatus* (L.) Wood  
"var. *sphaericus*"  
det. R. Carter  
occasional

**21749** [1] Asteraceae *Rudbeckia nitida* Nutt.  
det. R. Carter  
plants occasional, rays yellow, disk purplish black

**21750** [2] Asteraceae *Coreopsis delphiniifolia* Lam.  
det. R. Carter  
common, heads yellow

**21751** [2] Asteraceae *Rudbeckia hirta* L.  
det. R. Carter  
common, rays yellow, disk black

**21752** [1] Poaceae *Dichanthelium oligosanthes* (Schult.) Gould  
det. R. Carter  
occasional

**21753** [1] Juncaceae *Juncus marginatus* Rostk.  
det. R. Carter  
occasional

**21754** [3] Fabaceae *Rhynchosia tomentosa* (L.) Hook. & Arn. var. *tomentosa*  
det. R. Carter  
common

**21755** [1] Fabaceae *Galactia mollis* Michx.  
det. R. Carter  
trailing vine, infrequent, corolla blue

**21756** [1] Fabaceae *Galactia erecta* (Walter) Vail  
det. R. Carter  
erect herb, occasional

**21757** [2] Fabaceae *Galactia volubilis* (L.) Britt.  
det. R. Carter  
trailing vine, occasional, flowers blue

**21758** [1] Fabaceae *Lespedeza repens* (L.) Barton  
det. R. Carter  
plants occasional, stems prostrate, corolla blue

**21759** [2] Fabaceae *Rhynchosia reniformis* DC.  
det. R. Carter  
plants occasional

**21760** [1] Asteraceae *Vernonia angustifolia* Michx. var. *scaberrima* (Nutt.) Gray  
 det. R. Carter  
 occasional

**21761** [1] Commelinaceae *Callisia graminea* (Small) Tucker [*Cuthbertia graminea* Small]  
 det. R. Carter  
 occasional, petals magenta

**21762** [1] Commelinaceae *Commelina erecta* L.  
 det. R. Carter  
 common, petals blue

**21763** [1] Convolvulaceae *Stylisma patens* (Desr.) Myint var. *patens*  
 det. R. Carter  
 training vine, occasional, corolla white

**Richard Carter** with D. Stevenson, W. W. Baker  
**32.41032N/81.89855W**

Stanback Place, 4.0 mi N of Pulaski by Pulaski Rd, then S ca. 0.9 mi by Rosa's Lane, along W side  
 Rosa's Lane

--swale, burned about 8 weeks prior  
 with *Pinus elliottii*, *Ilex glabra*, *Gaylussacia frondosa*, *Vaccinium corymbosum*, *V. myrsinites*, *Clethra alnifolia*, *Myrica cerifera*, *Kalmia hirsuta*, *Tephrosia virginiana*, *Sarracenia minor*, *Polygala lutea*, *P. ramosa*, *Sabatia difformis*, *Lachnocaulon anceps*, *Ctenium aromaticum*, *Rudbeckia nitida*, *Rhexia alifanus*, *R. lutea*, *Xyris caroliniana*, *Drosera capillaris*, *Lobelia nuttallii*

**21764** [1] Xyridaceae *Xyris stricta* Chapm.  
 det. R. Carter  
 common, flowers yellow

**21765** [1] Nartheciaceae *Aletris aurea* Walter  
 det. R. Carter  
 common, flowers yellow

**21766** [1] Ericaceae *Gaylussacia tomentosa* (Gray) Pursh ex Small  
 det. R. Carter  
 shrub, common, ca. 1.5 m tall, fruit turning blackish purple

**21768** [1] Aquifoliaceae *Ilex glabra* (L.) Gray  
 det. R. Carter  
 shrub, common, ca. 1.5 m tall

**21769** [2] Ericaceae *Lyonia mariana* (L.) D. Don  
 det. R. Carter  
 low shrub, stems mostly 3-5 dm tall, occasional

**21770** [3] Ericaceae *Lyonia fruticosa* (Michx.) Torr.  
 det. R. Carter  
 shrub, 1-1.5 m tall, locally common

**21771** [2] Ericaceae *Gaylussacia tomentosa* (Gray) Pursh ex Small  
 Plants seem intermediate between *G. tomentosa* and *G. nana*.  
 det. R. Carter  
 shrub, ca. 5 dm tall, locally common

**21772** [1] Eriocaulaceae *Lachnocaulon anceps* (Walt.) Morong  
det. R. Carter  
plants common, cespitose, heads grayish white

**21773** [1] Poaceae *Dichanthelium strigosum* (Muhl. ex Ell.) Freckm. var. *strigosum*  
det. R. Carter  
plants common, cespitose

**21774** [2] Cyperaceae *Rhynchospora plumosa* Elliott  
det. R. Carter  
common, cespitose

**21775** [1] Cyperaceae *Scleria ciliata* Michx. var. *glabra* (Chapm.) Fairey  
det. R. Carter  
common

**21776** [1] Cyperaceae *Rhynchospora debilis* Gale  
det. R. Carter  
common

**21777** [3] Cyperaceae *Rhynchospora torreyana* Gray  
det. R. Carter  
common, cespitose

**21778** [1] Polygalaceae *Polygala mariana* Mill.  
det. R. Carter  
plants infrequent, roots aromatic, flowers pink

**21779** [3] Fabaceae *Tephrosia virginiana* (L.) Pers.  
det. R. Carter  
plants clonal, common

**21780** [1] Juncaceae *Juncus megacephalus* M.A. Curtis  
det. R. Carter  
occasional

**21781** [1] Polygalaceae *Polygala lutea* L.  
det. R. Carter  
plant common, roots aromatic, flowers orange

**21782** [1] Poaceae *Ctenium aromaticum* (Walter) Wood  
det. R. Carter  
common

**21783** [2] Cyperaceae *Fimbristylis puberula* (Michx.) Vahl var. *puberula*  
det. R. Carter  
common

**21784** [2] Eriocaulaceae *Lachnocaulon anceps* (Walt.) Morong  
det. R. Carter  
common, cespitose

**21785** [1] Sarraceniaceae *Sarracenia minor* Walter  
det. R. Carter  
common

**21786** [1] Gentianaceae *Sabatia difformis* (L.) Druce  
det. R. Carter  
common, corolla white

**21787** [1] Ericaceae *Kalmia hirsuta* Walter  
det. R. Carter  
low shrub, occasional, corolla pink to magenta

**21788** [1] Euphorbiaceae *Euphorbia discoidalis* Chapm.  
det. R. Carter  
occasional, broken stems and leaves exuding latex, cyathial appendages white

**21789** [2] Campanulaceae *Lobelia nuttallii* Schult.  
det. R. Carter  
common, corolla blue

**21790** [1] Melastomataceae *Rhexia lutea* Walter  
det. R. Carter  
common, corolla yellow

**Richard Carter** with D. Stevenson, W. W. Baker  
**32.3975N/81.89301W**

Stanback Place, 4.0 mi N of Pulaski by Pulaski Rd, then S ca. 2.0 mi by Rosa's Lane  
--degraded hammock  
with *Pinus palustris*, *P. taeda*, *Quercus nigra*, *Q. margarettae*, *Q. incana*, *Hamamelis virginiana*,  
*Diospyros virginiana*, *Vaccinium arboreum*

**21791** [4] Oleaceae *Chionanthus virginicus* L.  
det. R. Carter  
shrub, local, 2 m tall

**21792** [3] Rosaceae *Rubus pensylvanicus* Poir. [*Rubus betulifolius* Small]  
det. R. Carter  
shrub, 1.5 m tall, common

**21793** [1] Cyperaceae *Rhynchospora inexpansa* (Michx.) Vahl  
det. R. Carter  
locally abundant along sandy jeep trail

**21794** [5] Vitaceae *Vitis rotundifolia* Michx.  
det. R. Carter  
liana, common

**21795** [2] Pinaceae *Pinus palustris* Mill.  
det. R. Carter  
common tree

**Richard Carter** with D. Stevenson, W. W. Baker  
**32.4134N/81.89624W**  
Stanback Place, 4.0 mi N of Pulaski by Pulaski Rd, then S ca. 0.75 mi by Rosa's Lane  
--longleaf pine-wiregrass savanna grading into gum pond at head of impoundment, burned ca. 8 weeks  
prior

**21796** [2] Euphorbiaceae *Tragia urticifolia* Michx.  
det. R. Carter  
plants with stinging trichomes, occasional

**21797** [1] Rubiaceae *Galium pilosum* Aiton  
 det. R. Carter  
 plant "lazy" and clambering, common

**21798** [2] Agavaceae *Yucca filamentosa* L.  
 det. R. Carter  
 plant 2-3 m tall, occasional, flowers white

**21799** [1] Passifloraceae *Passiflora incarnata* L.  
 det. R. Carter  
 low vine, infrequent

**21800** [1] Acanthaceae *Dyschoriste oblongifolia* (Michx.) Kuntze  
 det. R. Carter  
 plant common, flowers blue

**21801** [2] Euphorbiaceae *Euphorbia exserta* (Small) Coker  
 det. R. Carter  
 plant infrequent, broken stems exuding latex

**21802** [3] Fabaceae *Pediomelum canescens* (Michx.) Rydb. [*Psoralea canescens* Michx.]  
 det. R. Carter  
 occasional

--sandy jeep trail through longleaf pine-wiregrass savanna

**21803** [1] Campanulaceae *Wahlenbergia marginata* (Thunb.) DC.  
 det. R. Carter  
 common, corolla blue

**21804** [1] Asteraceae *Erigeron strigosus* Muhl. ex Willd.  
 det. R. Carter  
 common, rays white, disk yellow

--margin of gum pond at head of impoundment  
 with *Nyssa biflora*, *Liriodendron tulipifera*, *Magnolia virginiana*, *Acer rubrum*, *Clethra alnifolia*, *Lyonia lucida*, *Osmunda cinnamomea*, *Sphagnum*

**21805** [1] Salviniaceae *Salvinia minima* Baker  
 det. R. Carter  
 plants floating, common

**21806** [2] Cyperaceae *Carex elliottii* Schwein. & Torr.  
 det. R. Carter  
 locally common

**21807** [3] Cyperaceae *Rhynchospora leptocarpa* (Chapm. ex Britt.) Small???, spikelets immature  
 det. R. Carter  
 plants forming very large clumps, stems "lazy" and reclining

7/8/2014  
**Richard Carter** with F. Snow  
**U.S.A. Georgia: Coffee County**  
**31.74875N/82.86418W**  
 Broxton Rocks Nature Preserve, along W bank of west branch of Rocky Creek

--disturbed edge of floodplain

**21809** [6] Asteraceae *Erechtites hieraciifolius* (L.) Raf. ex DC.  
det. R. Carter  
common

--floodplain

**21810** [1] Adoxaceae *Viburnum dentatum* L.  
det. R. Carter  
shrub, 2-3 m tall, common

--floodplain, moist soil

**21811** [1] Araliaceae *Hydrocotyle verticillata* Thunb.  
det. R. Carter  
prostrate herb, common

--floodplain

**21812** [2] Cyperaceae *Rhynchospora caduca* Elliott  
det. R. Carter  
common

**21813** [3] Cyperaceae *Rhynchospora caduca* Elliott  
det. R. Carter  
common

**Richard Carter** with F. Snow  
**31.75254N/82.86538W**

Broxton Rocks Nature Preserve, NW of confluence of east and west branch of Rocky Creek, near NW corner of preserve  
--floodplain

**21814** [2] Betulaceae *Carpinus caroliniana* Walter  
det. R. Carter  
10 m tree, occasional, trunk irregularly fluted and appearing muscular, bark smooth and pale

**21815** [2] Juncaceae *Juncus coriaceus* Mack.  
det. R. Carter  
occasional

**Richard Carter** with F. Snow  
**31.74006N/82.85758W**

Broxton Rocks Nature Preserve, along road to High Rock  
--degraded longleaf pine-wiregrass upland, disturbed sandy loam

**21816** [1] Polygalaceae *Polygala incarnata* L.  
det. R. Carter  
occasional, roots aromatic, flowers lavender

**21817** [1] Fabaceae *Tephrosia hispidula* (Michx.) Pers.  
det. R. Carter  
occasional

**21818** [1] Asteraceae *Silphium compositum* Michx. var. *ovatifolium* Torr. & Gray

det. R. Carter  
occasional, ray and disk corollas yellow

**Richard Carter** with F. Snow  
**31.7315N/82.86212W**  
Broxton Rocks Nature Preserve, ca. 0.5 m WSW of Rock Falls  
--degraded longleaf pine-wiregrass upland, disturbed sandy loam

**21819** [3] Chrysobalanaceae *Licania michauxii* Prance  
det. R. Carter  
plants clonal, in large patches, common

**21820** [1] Cistaceae *Lechea mucronata* Raf. [*Lechea villosa* Elliott]  
det. R. Carter  
common

**21821** [1] Agavaceae *Manfreda virginica* (L.) Salisb. ex Rose [*Agave virginica* L.]  
det. R. Carter  
occasional

**21822** [1] Asteraceae *Vernonia angustifolia* Michx. var. *scaberrima* (Nutt.) Gray  
det. R. Carter  
common

**21823** [3] Poaceae *Paspalum floridanum* Michx.  
det. R. Carter  
occasional

--degraded seepage slope along drain

**21824** [2] Cyperaceae *Rhynchospora compressa* Carey ex Chapm.  
det. R. Carter  
common

**21825** [1] Clusiaceae *Hypericum myrtifolium* Lam.  
det. R. Carter  
occasional, petals and stames yellow

**21826** [1] Xyridaceae *Xyris caroliniana* Walter  
det. R. Carter  
common

**21827** [2] Xyridaceae *Xyris stricta* Chapm.  
det. R. Carter  
common

**21828** [1] Gentianaceae *Sabatia campanulata* (L.) Torr.  
det. R. Carter  
occasional, corolla pink with small yellow eye

**21829** [1] Polygalaceae *Polygala ramosa* Elliott  
det. R. Carter  
locally common, flowers yellow

**21830** [1] Cyperaceae *Rhynchospora rariflora* (Michx.) Ell.  
det. R. Carter

locally common, cespitose

**Richard Carter** with F. Snow

**31.74152N/82.84257W**

Broxton Rocks Nature Preserve, Rickerson Tract E

--sandridge adjacent to longleaf pine savannah, recently burned

with *Pinus palustris*, *Quercus laevis*, *Q. marilandica*, *Q. incana*, *Vaccinium stamineum*, *Serenoa repens*, *Nolina georgiana*, *Aristida stricta*, *Marshallia ramosa*, *Rhynchospora grayi*, *Pteridium aquilinum*, *Tephrosia virginiana*, *Solidago odora*

**21831 [2] Krameriaceae *Krameria lanceolata* Torr.**

det. R. Carter

rare and local, corolla magenta

**21832 [1] Cyperaceae *Rhynchospora grayi* Kunth**

det. R. Carter

occasional

**Richard Carter** with F. Snow

**31.74293N/82.84523W**

Broxton Rocks Nature Preserve, Rickerson Tract W

--xeric sandridge adjacent to sandstone outcrop, recently burned

with *Pinus palustris*, *Quercus laevis*, *Q. marilandica*, *Q. incana*, *Vaccinium stamineum*, *Serenoa repens*, *Nolina georgiana*, *Aristida stricta*, *Rhynchospora grayi*, *Pteridium aquilinum*, *Tephrosia virginiana*, *Solidago odora*

**21833 [2] Cyperaceae *Cyperus filiculmis* Vahl**

det. R. Carter

occasional

**21834 [1] Euphorbiaceae *Tragia linearifolia* Elliott**

det. R. Carter

plant with stinging trichomes, occasional

**21835 [2] Euphorbiaceae *Euphorbia exserta* (Small) Coker**

det. R. Carter

plants infrequent, with latex, cyathial appendages dark blackish maroon

**21836 [1] Asteraceae *Hieracium gronovii* L.**

det. R. Carter

occasional

--seep head, just E of "arch bridge", recently burned

with *Pinus palustris*, *Quercus laevis*, *Q. marilandica*, *Q. incana*, *Vaccinium stamineum*, *Serenoa repens*, *Nolina georgiana*, *Aristida stricta*, *Rhynchospora grayi*, *Pteridium aquilinum*, *Tephrosia virginiana*, *Solidago odora*

**21837 [2] Cyperaceae *Rhynchospora globularis* (Chapm.) Small var. *globularis***

det. R. Carter

common, cespitose

**21838 [1] Asteraceae *Oclemena reticulata* (Pursh) Nesom [*Aster reticularis* Pursh]**

det. R. Carter

common, rays white, disk yellow

**21839 [1] Aquifoliaceae *Ilex myrtifolia* Walter**

det. R. Carter  
shrub, basal shoots from base after burn

**21840** [1] Cyperaceae *Rhynchospora glomerata* (L.) Vahl  
det. R. Carter  
common

**21841** [1] Cyperaceae *Rhynchospora rariflora* (Michx.) Ell.  
det. R. Carter  
common

**7/10/2014**  
**Richard Carter** with W. W. Baker

**U.S.A. Georgia: Worth County**

**31.45183N/83.96381W**

Winecup Place, SW ¼, ca. 0.1 mi N powerline right-of-way  
--longleaf pine-wiregrass savanna

with *Pinus palustris*, *Aristida stricta*, *Quercus stellata*, *Q. falcata*, *Sassafras albidum*, *Liquidambar styraciflua*, *Rhus copallina*, *Vaccinium stamineum*, *Tephrosia virginica*, *Pteridium aquilinum*

**21842** [3] Apiaceae *Angelica venenosa* (Greenway) Fern.  
det. R. Carter  
occasional, flowers white

**21843** [2] Asteraceae *Coreopsis delphiniifolia* Lam.  
det. R. Carter  
occasional, rays and disk yellow

**21844** [1] Polygalaceae *Polygala incarnata* L.  
det. R. Carter  
infrequent, roots aromatic, flowers blue

**21845** [1] Asteraceae *Liatris squarrosa* (L.) Michx.  
det. R. Carter  
occasional, heads purplish blue

**21846** [1] Campanulaceae *Lobelia puberula* Michx.  
det. R. Carter  
infrequent, corolla blue

**21847** [1] Linaceae *Linum floridanum* (Planch.) Trel.  
det. R. Carter  
occasional, flowers yellow

**21848** [1] Rubiaceae *Galium pilosum* Ait.  
det. R. Carter  
occasional

**21849** [1] Fabaceae *Lespedeza repens* (L.) Barton  
det. R. Carter  
plants infrequent, stems trailing

**21850** [2] Asteraceae *Silphium asteriscus* L.  
det. R. Carter  
occasional, heads yellow

**21851** [1] Melianthiaceae *Amianthium muscaetoxicum* (Walter) Gray  
det. R. Carter  
occasional

**21852** [1] Dennstaediaceae *Pteridium aquilinum* (L.) Kuhn  
det. R. Carter  
common

**21853** [2] Gentianaceae *Sabatia angularis* (L.) Pursh  
det. R. Carter  
occasional, corolla pink

**21854** [3] Cyperaceae *Rhynchospora globularis* (Chapm.) Small var. *pinetorum* (Britt. & Small) Gale  
det. R. Carter  
occasional

**Richard Carter** with W. W. Baker  
**31.4522N/83.96471W**

Winecup Place, SW ¼, drain crossing, ca. 0.15 mi N powerline right-of-way  
--hardwood drain  
with *Quercus nigra*, *Diospyros virginiana*, *Liquidambar styraciflua*, *Celtis laevigata*, *Acer rubrum*, *Salix nigra*, *Prunus caroliniana*

**21855** [4] Dioscoreaceae *Dioscorea floridana* Bartlett  
det. R. Carter  
vine, occasional

**21856** [1] Acanthaceae *Ruellia caroliniensis* (Gmel.) Steud.  
det. R. Carter

**21857** [2] Apiaceae *Sanicula canadensis* L.  
det. R. Carter  
locally common

**21858** [1] Schizaeaceae *Lygodium japonicum* (Thunb.) Swartz  
det. R. Carter  
twining vine, common

**Richard Carter** with W. W. Baker  
**31.44967N/83.97698W**  
Powerline right-of-way, 0.52 mi E Hwy GA 133  
--open disturbed slope along drain

**21859** [2] Lythraceae *Lythrum alatum* Pursh var. *lanceolatum* (Ell.) Torr. & Gray ex Rothr.  
det. R. Carter  
common, corolla purple

**21860** [4] Menispermaceae *Menispermum canadense* L.  
det. R. Carter  
twining vine, common

**21861** [3] Cyperaceae *Rhynchospora caduca* Ell.  
det. R. Carter  
common

**21862** [2] Cyperaceae *Cyperus echinatus* (L.) Wood

det. R. Carter  
occasional

**21863 [4]** Poaceae *Tripsacum dactyloides* (L.) L.  
det. R. Carter  
locally common

**21864 [2]** Poaceae *Elymus virginicus* L.  
det. R. Carter  
locally common

**Richard Carter** with W. W. Baker

**31.4554N/83.97385W**

Wiregrass Plantation, 0.60 airmile NE of headquarters  
--longleaf pine-wiregrass savanna, slope above sink, recently burned  
with *Pinus palustris*, *Aristida stricta*, *Baptisia albescens*, *Manfreda virginica*, *Coreopsis delphinifolia*,  
*Cyperus echinatus*, *Silphium asteriscus*, *Angelica venenosa*, *Sympyotrichum adnatum*, *S. walteri*,  
*Sericocarpus tortifolius*, *Ionactus linariifolia*, *Rudbeckia hirta*, *Asclepias obovata*, *Phlox pilosa*, *Eryngium yuccifolium*, *Pityopsis graminifolia*, *Vernonia angustifolia*

Note: *Gopherus* burrows observed, Bachman's sparrow heard

**21865 [3]** Convolvulaceae *Cuscuta obtusiflora* Kunth var. *glandulosa* Engelm.  
det. R. Carter  
occasional achlorophyllous twining vine, parasitic on herbaceous plants

**21866 [1]** Malvaceae *Callirhoe papaver* (Cav.) Gray  
det. R. Carter  
infrequent, corolla purple

**Richard Carter** with W. W. Baker

**31.46166N/83.96858W**

Wiregrass Plantation, 1.10 airmiles NE of headquarters  
--slope along drain  
with *Quercus alba*, *Q. falcata*, *Pinus taeda*, *Ulmus alata*, *Juniperus virginiana*, *Callicarpa americana*,  
*Smilax smallii*

**21867 [2]** Lamiaceae *Pycnanthemum albescens* Torr. & Gray ex Gray  
det. R. Carter  
common

**21868 [2]** Asteraceae *Cirsium nuttallii* DC.  
det. R. Carter  
locally common, flowers purple

**21869 [1]** Asteraceae *Heliopsis helianthoides* (L.) Sweet var. *gracilis* (Nutt.) Gandhi & Thomas  
det. R. Carter  
locally common, heads yellow

**21870 [1]** Rubiaceae *Richardia brasiliensis* Gomes  
det. R. Carter  
common in disturbed sandy loam

**Richard Carter** with W. W. Baker

**31.47185N/83.98035W**

Wiregrass Plantation, 1.50 airmiles N of headquarters  
--longleaf pine-wiregrass savanna, open slope, burned ca. 12 weeks prior

with *Pinus palustris*, *Aristida stricta*, *Rhus copallina*, *Quercus stellata*, *Q. falcata*, *Diospyros*, *Sassafras*, *Prunus serotina*, *Gaylussacia frondosa*, *Vaccinium stamineum*, *Stillingia sylvatica*, *Tephrosia virginiana*, *Piriqueta caroliniana*, *Ionactis linariifolia*, *Eryngium yuccifolium*, *Toxicodendron pubescens*, *Schranksia microphylla*, *Cnidoscolus*, *Vernonia angustifolia*, *Rhynchosia tomentosa*, *Rudbeckia hirta*, *Apocynum cannabinum*, *Solidago odora*, *Pityopsis graminifolia*, *Amsonia ciliata*, *Pteridium aquilinum*, *Asclepias obovata*, *Hibiscus aculeatus*, *Symphyotrichum walteri*, *Galactia erecta*, *Polygala grandifolia*, *Coreopsis delphinifolia*, *Silphium asteriscus*, *Angelica dentata*

Note: *Angelica dentata*, occasional

**21871 [1]** Urticaceae *Tragia urticifolia* Michx.

det. R. Carter

plants occasional, with stinging hairs

**21872 [1]** Euphorbiaceae *Euphorbia pubentissima* Michx.

det. R. Carter

plants with latex, occasional

**21873 [2]** Asteraceae *Rudbeckia hirta* L.

det. R. Carter

common

**21874 [2]** Gentianaceae *Sabatia campanulata* (L.) Torr.

det. R. Carter

occasional, corolla pink

**21875 [2]** Commelinaceae *Commelina erecta* L.

det. R. Carter

occasional

**21876 [1]** Linaceae *Linum medium* (Planch.) Britt.

det. R. Carter

occasional

--drain in longleaf pine-wiregrass savanna, open slope, burned ca. 12 weeks prior

with *Pinus palustris*, *Aristida stricta*, *Rhus copallina*, *Quercus stellata*, *Q. falcata*, *Diospyros*, *Sassafras*, *Prunus serotina*, *Gaylussacia frondosa*, *Vaccinium stamineum*, *Stillingia sylvatica*, *Tephrosia virginiana*, *Piriqueta caroliniana*, *Ionactis linariifolia*, *Eryngium yuccifolium*, *Toxicodendron pubescens*, *Schranksia microphylla*, *Cnidoscolus*, *Vernonia angustifolia*, *Rhynchosia tomentosa*, *Rudbeckia hirta*, *Apocynum cannabinum*, *Solidago odora*, *Pityopsis graminifolia*, *Amsonia ciliata*, *Pteridium aquilinum*, *Asclepias obovata*, *Hibiscus aculeatus*, *Symphyotrichum walteri*, *Galactia erecta*, *Polygala grandifolia*, *Coreopsis delphinifolia*, *Silphium asteriscus*, *Angelica dentata*

**21877 [1]** Asteraceae *Arnoglossum atriplicifolium* (L.) H. Rob.

det. R. Carter

locally common

**21878 [5]** Asteraceae *Rudbeckia mohrii* Gray

det. R. Carter

occasional, rays yellow, disk black

**21879 [2]** Cyperaceae *Rhynchospora microcarpa* (Britt.) Britt. ex Small

det. R. Carter

common

**21880 [1]** Cyperaceae *Fuirena breviseta* (Cov.) Cov.

det. R. Carter

common, cespitose

**21881 [1]** Poaceae *Dichanthelium scoparium* (Lam.) Gould  
det. R. Carter  
common

**Richard Carter** with W. W. Baker

**31.47453N/83.97239W**

Wiregrass Plantation, 1.77 airmiles NNE of headquarters, 0.85 airmile WNW of Sears Lake dam  
--seepage slope ecotone along drain, below longleaf pine-wiregrass savanna, recently burned  
with *Pinus elliottii*, *Myrica cerifera*, *Diospyros*, *Hibiscus aculeatus*, *Xyris caroliniana*, *Juncus scirpooides*,  
*Chaptalia tomentosa*, *Erigeron vernus*, *Ctenium aromaticum*, *Rhexia alifanus*, *Rudbeckia mohrii*,  
*Rhynchospora*, *Dichanthelium scoparium*, *Eupatorium rotundifolium*, *Aletris*, *Sabatia campanulata*, *Carex glaucescens*, *Polygala lutea*, *Lachnocalon anceps*

**21882 [2]** Melastomataceae *Rhexia virginica* L.  
det. R. Carter  
common, corolla rose-purple

**21883 [1]** Scrophulariaceae *Gratiola pilosa* Michx.  
det. R. Carter  
common, corolla white

**21884 [1]** Lamiaceae *Pycnanthemum flexuosum* (Walt.) Britt. et al.  
det. R. Carter  
occasional

**21885 [2]** Onagraceae *Ludwigia hirtella* Raf.  
det. R. Carter  
occasional, corolla yellow

**21886 [2]** Haloragaceae *Proserpinaca pectinata* Lam.  
det. R. Carter  
common

**21887 [1]** Asteraceae *Pluchea baccharis* (Mill.) Pruski [*Pluchea rosea* Godfrey]  
det. R. Carter  
common, heads pink

**21888 [1]** Eriocaulaceae *Eriocaulon decangulare* L.  
det. R. Carter  
common, heads white

**21889 [1]** Asclepiadaceae *Asclepias longifolia* Walter  
det. R. Carter  
occasional, flowers reddish orang

**21890 [1]** Cyperaceae *Rhynchospora odorata* Wright ex Griseb.  
det. R. Carter  
common

**21891 [1]** Tofieldiaceae *Triantha racemosa* (Walt.) Small [*Tofieldia racemosa* (Walter) Britt. et al.]  
det. R. Carter  
common, flowers white

**21892 [1]** Xyridaceae *Xyris caroliniana* Walter

det. R. Carter  
common

**21893 [1]** Onagraceae *Ludwigia maritima* Harper  
det. R. Carter  
common

**21894 [3]** Melianthiaceae *Veratrum virginicum* (L.) Aiton f. [*Melanthium virginicum* L.]  
det. R. Carter  
occasional

--longleaf pine-wiregrass savanna, recently burned  
with *Pinus palustris*, *Aristida stricta*

**21895 [1]** Fabaceae *Crotalaria purshii* DC.  
det. R. Carter  
occasional, corolla yellow

**21896 [1]** Apiaceae *Eryngium yuccifolium* Michx.  
det. R. Carter  
occasional

**Richard Carter** with W. W. Baker  
**31.47357N/83.95432W**  
Wiregrass Plantation, just NE of Sears Lake  
--upland pine woods with hardwood understory, recently burned  
with *Pinus palustris*, *P. taeda*

**21897 [2]** Asteraceae *Verbesina aristata* (Ell.) Heller  
det. R. Carter  
occasional, heads yellow

**21898 [1]** Cistaceae *Lechea mucronata* Raf. [*Lechea villosa* Elliott]  
det. R. Carter  
common

**21899 [1]** Asteraceae *Tetragonotheca helianthoides* L.  
det. R. Carter  
occasional, heads yellow

**21900 [2]** Asteraceae *Arnoglossum atriplicifolium* (L.) H. Rob.  
det. R. Carter  
locally common

**7/11/2014**  
**Richard Carter** with W. W. Baker  
**U.S.A. Georgia: Dougherty County**  
**31.44518N/84.06768W**  
Weatherbee Tract, 0.32 airmile WNW of Rocky Hill Church, W of Gravel Hill Rd and S of powerline right-of-way  
--longleaf pine-wiregrass savanna  
with *Pinus palustris*, *Aristida stricta*, *Quercus nigra*, *Vaccinium stamineum*, *V. tenellum*, *Rhus copallina*, *Prunus serotina*, *Stillingia sylvatica*, *Ceanothus microphyllus*, *Rubus cuneifolium*, *Hypericum microsepalum*, *Schizachyrium tenerum*, *Rhynchosia reniformis*, *R. tomentosa*, *Sympyotrichum adnatum*, *S. concolor*, *Ionactis linariifolia*, *Lygodesmia aphylla*, *Rudbeckia hirta*, *Tephrosia virginiana*, *Orbexilum lupinellus*, *Psoralea canescens*, *Stylosanthes biflora*, *Piriqueta*, *Styloodon*, *Centrosema virginiana*,

*Cnidoscolus*, *Tragia urens*, *Solidago odora*, *Ageratina jucunda*, *Eupatorium serotinum*, *Penstemon australis*, *Asclepias tuberosa*, *Polygala incarnata*, *P. grandiflora*, *Scleria trigloemerata*, *Smilax bona-nox*, *S. smallii*, *Pteridium aquilinum*

Note: Bachman's sparrow heard; *Hypericum microsepalum* occasional

**21901** [1] Rubiaceae *Galium pilosum* Aiton

det. R. Carter

plants clambering, common

**21902** [1] Asteraceae *Erigeron strigosus* Muhl. ex Willd.

det. R. Carter

common in disturbed sandy loam

**21903** [2] Fabaceae *Mimosa quadrivalvis* L. var. *floridana* (Chapm.) Barneby

det. R. Carter

plants clambering, common

**21904** [1] Convolvulaceae *Ipomoea pandurata* (L.) G. Mey.

det. R. Carter

trailing vine, corolla white with purple eye, common

**21905** [1] Fabaceae *Rhynchosia tomentosa* (L.) Hook. & Arn. var. *tomentosa*

det. R. Carter

occasional

**21906** [1] Orchidaceae *Pteroglossaspis ecristata* (Fern.) Rolf

det. R. Carter

rare, 2 plants observed

**21907** [1] Euphorbiaceae *Stillingia sylvatica* L.

det. R. Carter

plant from woody base, common, latex present

**Richard Carter** with W. W. Baker

**31.44675N/84.06927W**

Weatherbee Tract, 0.45 airmile WNW of Rocky Hill Church, W of Gravel Hill Rd and S of powerline right-of-way

--longleaf pine-wiregrass savanna

with *Pinus palustris*, *Aristida stricta*, *Quercus nigra*, *Vaccinium stamineum*, *V. tenellum*, *Rhus copallina*, *Prunus serotina*, *Stillingia sylvatica*, *Ceanothus microphyllus*, *Rubus cuneifolium*, *Hypericum microsepalum*, *Schizachyrium tenerum*, *Rhynchosia reniformis*, *R. tomentosa*, *Sympyotrichum adnatum*, *S. concolor*, *Ionactis linariifolia*, *Lygodesmia aphylla*, *Rudbeckia hirta*, *Tephrosia virginiana*, *Orbexilum lupinellus*, *Psoralea canescens*, *Stylosanthes biflora*, *Piriqueta*, *Styloodon*, *Centrosema virginiana*, *Cnidoscolus*, *Tragia urens*, *Solidago odora*, *Ageratina jucunda*, *Eupatorium serotinum*, *Penstemon australis*, *Asclepias tuberosa*, *Polygala incarnata*, *P. grandiflora*, *Scleria trigloemerata*, *Smilax bona-nox*, *S. smallii*, *Pteridium aquilinum*

**21908** [1] Asteraceae *Lygodesmia aphylla* (Nutt.) DC.

det. R. Carter

plant occasional, heads blue

**21910** [1] Asteraceae *Rudbeckia hirta* L.

det. R. Carter

common, rays yellow, disk black

**21911** [2] Euphorbiaceae *Acalypha gracilens* Gray

det. R. Carter  
common in disturbed sandy loam

**21912 [4]** Fabaceae *Orbexilum lupinellus* (Michx.) Isely  
det. R. Carter  
locally common

**21913 [2]** Euphorbiaceae *Euphorbia pubentissima* Michx.  
det. R. Carter  
occasional, latex present

**21914 [1]** Euphorbiaceae *Tragia urens* L.  
det. R. Carter  
plants with stinging trichomes, common

**21915 [1]** Ericaceae *Vaccinium stamineum* L.  
det. R. Carter  
clonal shrub, common, stems <5 dm tall

**21916 [1]** Ericaceae *Vaccinium stamineum* L.  
det. R. Carter  
1-2 m shrub, common

**21917 [1]** Lythraceae *Cuphea carthagensis* (Jacq.) Macbr.  
det. R. Carter  
plants common in disturbed swale

**21918 [1]** Fabaceae *Crotalaria purshii* DC.  
det. R. Carter  
occasional

**21919 [1]** Fabaceae *Pediomelum canescens* (Michx.) Rydb. [*Psoralea canescens* Michx.]  
det. R. Carter  
occasional

--longleaf pine-wiregrass savanna grading into clay-based grady pond  
with *Pinus palustris*, *Aristida stricta*, *Quercus nigra*, *Vaccinium stamineum*, *V. tenellum*, *Rhus copallina*num,  
*Prunus serotina*, *Stillingia sylvatica*, *Ceanothus microphyllus*, *Rubus cuneifolium*, *Hypericum*  
*microsepalum*, *Schizachyrium tenerum*, *Rhynchosia reniformis*, *R. tomentosa*, *Symphyotrichum adnatum*,  
*S. concolor*, *Ionactis linariifolia*, *Lygodesmia aphylla*, *Rudbeckia hirta*, *Tephrosia virginiana*, *Orbexilum*  
*lupinellus*, *Psoralea canescens*, *Stylosanthes biflora*, *Piriqueta*, *Stylodon*, *Centrosema virginiana*,  
*Cnidoscolus*, *Tragia urens*, *Solidago odora*, *Ageratina jucunda*, *Eupatorium serotinum*, *Penstemon*  
*australis*, *Asclepias tuberosa*, *Polygala incarnata*, *P. grandiflora*, *Scleria triglomerata*, *Smilax bona-nox*, *S.*  
*smallii*, *Pteridium aquilinum*

**21920 [1]** Gentianaceae *Sabatia angularis* (L.) Pursh  
det. R. Carter  
occasional, corolla pink

**21921 [2]** Linaceae *Linum floridanum* (Planch.) Trel.  
det. R. Carter  
plant with yellow corolla, common

**Richard Carter** with W. W. Baker  
**31.44905N/84.07156W**  
Weatherbee Tract, powerline right-of-way, 0.56 mi W of Gravel Hill Rd

--seasonally inundated open flat in right-of-way

**21922 [2]** Alismataceae *Sagittaria graminea* Michx. subsp. *chapmanii* J.G. Sm.) Hayn. & Hellq.  
det. R. Carter  
common, petals white

**21923 [1]** Cyperaceae *Cyperus drummondii* Torr. & Hook.  
det. R. Carter  
locally abundant

**21924 [1]** Cyperaceae *Cyperus haspan* L.  
det. R. Carter  
common

**21925 [1]** Cyperaceae *Cyperus pseudovegetus* Steud.  
det. R. Carter  
common

**21926 [1]** Polygonaceae *Polygonum hydropiperoides* Michx.  
det. R. Carter  
locally abundant

**21927 [1]** Juncaceae *Juncus repens* Michx.  
det. R. Carter  
plants creeping, rooting at nodes, locally abundant

**21928 [1]** Ebenaceae *Diospyros virginiana* L.  
det. R. Carter  
6-8 m tree, common

**21929 [1]** Cyperaceae *Eleocharis obtusa* (Willd.) Schult.  
det. R. Carter  
locally abundant

**21930 [2]** Malvaceae *Hibiscus aculeatus* Walter  
det. R. Carter  
common, stems about 1 m tall, corolla white with purplish black eye

**21931 [2]** Onagraceae *Ludwigia decurrens* Walter  
det. R. Carter  
common, corolla yellow

**21932 [4]** Malvaceae *Hibiscus moscheutos* L.  
det. R. Carter  
shrub, common, branching at base, stems ca. 1.5 m tall, corolla white with purplish red eye

**Richard Carter** with W. W. Baker  
**U.S.A. Georgia: Worth County**  
**31.43524N/83.83591W**  
0.2 mi S jct. Hwy GA 33 and Old Hwy 33, along W side of Old Hwy 33  
--disturbed floodplain of creek, sandy loam soil

**21933 [4]** Asteraceae *Lactuca canadensis* L.  
det. R. Carter  
herb, common, stems to 3 m tall, corolla yellow

**21934** [3] Smilacaceae *Smilax smallii* Morong

det. R. Carter

high climbing woody vine, common

**21935** [3] Oleaceae *Fraxinus caroliniana* Mill.

det. R. Carter

small tree, common

**21936** [2] Nyssaceae *Nyssa ogeche* Bartram ex Marshall

det. R. Carter

small tree, common

**21937** [2] Clusiaceae *Hypericum mutilum* L.

det. R. Carter

common, corolla yellow

**21938** [1] Campanulaceae *Lobelia flaccidifolia* Small

det. R. Carter

common, corolla blue

**21939** [2] Alismataceae *Sagittaria latifolia* Willd.

det. R. Carter

common, petals white

**21940** [2] Onagraceae *Ludwigia alternifolia* L.

det. R. Carter

common, corolla yellow

**21941** [2] Xyridaceae *Xyris difformis* Chapm.

det. R. Carter

common

**21942** [1] Cyperaceae *Fuirena breviseta* (Cov.) Cov.

det. R. Carter

common, cespitose

**21943** [1] Haemodoraceae *Lachnanthes caroliana* (Lam.) Dandy

det. R. Carter

common

**21944** [1] Lythraceae *Cuphea carthagensis* (Jacq.) Macbr.

det. R. Carter

common

**21945** [4] Juncaceae *Juncus validus* Coville

det. R. Carter

common

**21946** [2] Cyperaceae *Rhynchospora corniculata* (Lam.) Gray

det. R. Carter

common

**Richard Carter** with W. W. Baker

**31.43422N/83.85897W**

1.90 airmiles SW jct. Hwy GA 33 and Douthit Rd, Jeffords Place

--disturbed edge of longleaf pine-wiregrass savanna

**21947 [1]** Fabaceae *Lespedeza repens* (L.) Barton  
det. R. Carter  
plants occasional, stems decumbent

**Richard Carter** with W. W. Baker  
**31.43288N/83.87125W**  
2.59 airmiles WSW jct. Hwy GA 33 and Douthit Rd, Jeffords Place  
--seepage along drain in longleaf pine-wiregrass savanna

**21948 [2]** Cyperaceae *Rhynchospora compressa* Carey ex Chapm.  
det. R. Carter  
locally common

**21949 [1]** Cyperaceae *Rhynchospora gracilenta* Gray  
det. R. Carter  
locally common

**7/16/2014**  
**Richard Carter** with W. W. Baker  
**U.S.A. Georgia: Turner County**  
**31.6703N/83.69436W**  
3.25 mi NW Coverdale jct. CR 99 and Hwy GA 112, along SE side of Hwy GA 112  
--degraded seepage slope along drain

**21952 [1]** Gentianaceae *Sabatia dodecandra* (L.) BSP.  
det. R. Carter  
occasional, corolla pink

**21953 [1]** Haloragaceae *Proserpinaca palustris* L.  
det. R. Carter  
common

**21954 [1]** Apiaceae *Oxypolis filiformis* (Walt.) Britt.  
det. R. Carter  
common

**21955 [2]** Eriocaulaceae *Eriocaulon decangulare* L.  
det. R. Carter  
common

**21956 [2]** Juncaceae *Juncus marginatus* Rostk.  
det. R. Carter  
common

**21957 [1]** Gentianaceae *Sabatia macrophylla* Hook.  
det. R. Carter  
occasional

**21958 [1]** Juncaceae *Juncus polycephalus* Michx.  
det. R. Carter  
common

**21959 [1]** Juncaceae *Juncus scirpoides* Lam.  
det. R. Carter  
common

**21960** [1] Cyperaceae *Rhynchospora cephalantha* A. Gray  
det. R. Carter  
common

**21961** [2] Cyperaceae *Rhynchospora ellottii* A. Dietr.  
det. R. Carter  
common

**21962** [3] Lamiaceae *Physostegia virginiana* (L.) Benth.  
det. R. Carter  
occasional

**21963** [2] Linaceae *Linum striatum* Walter  
det. R. Carter  
occasional

**21964** [3] Xyridaceae *Xyris stricta* Chapm.  
det. R. Carter  
common

**21965** [1] Xyridaceae *Xyris difformis* Chapm.  
det. R. Carter  
common

**21966** [2] Cyperaceae *Rhynchospora glomerata* (L.) Vahl  
det. R. Carter  
common

**Richard Carter** with W. W. Baker  
**31.73019N/83.699W**  
3.5 mi NW of Ashburn center by Warwick Hwy (CR 249), along N side hwy, Little River Plantation  
--ecotone between longleaf pine-wiregrass savanna and bay head

**21967** [2] Cyperaceae *Rhynchospora chapmanii* M.A. Curtis  
det. R. Carter  
common

**21968** [2] Cyperaceae *Rhynchospora gracilenta* A. Gray  
det. R. Carter  
common

**7/17/2014**

**Richard Carter** with W. W. Baker  
**U.S.A. Georgia: Wheeler County**  
**32.04509N/82.69704W**

1.80 airmiles WNW Jordan jct. Hwy GA 19, Hwy GA 126, and Hwy GA 134; Reese Thompson Place,  
Talmadge Tract  
--xeric longleaf pine/turkey oak upland, deep sand  
with *Pinus palustris*, *Quercus laevis*, *Q. margarettae*, *Q. incana*, *Vaccinium arboreum*, *V. stamineum*,  
*Aristida stricta*, *Licania michauxii*, *Eriogonum tomentosum*, *Tephrosia virginiana*, *Lupinus villosus*,  
*Amsonia ciliata*, *Liatis tenuifolia*, *Galactia regularis*, *Gelsemium sempervirens*, *Hypericum gentianoides*,  
*Callisia rosea*, *Pityopsis graminifolia*, *Solidago odora*, *Opuntia*, *Cyperus hystricinus*, *Bulbostylis warei*

**21969** [1] Caryophyllaceae *Stipulicida setacea* Michx. var. *setacea*

det. R. Carter  
occasional

**21970** [1] Cyperaceae *Cyperus filiculmis* Vahl  
det. R. Carter  
occasional

**21971** [1] Euphorbiaceae *Euphorbia exserta* (Small) Coker  
det. R. Carter  
occasional

**21972** [3] Krameriaeae *Krameria lanceolata* Torrey  
det. R. Carter  
rare and local

**21973** [1] Fabaceae *Clitoria mariana* L.  
det. R. Carter  
occasional

**21974** [1] Commelinaceae *Commelina erecta* L.  
det. R. Carter  
occasional

**21975** [1] Euphorbiaceae *Cnidoscolus stimulosus* (Michx.) Engelm. & A. Gray  
det. R. Carter  
common

**21976** [1] Cyperaceae *Cyperus filiculmis* Vahl  
det. R. Carter  
occasional

**21977** [2] Cyperaceae *Rhynchospora grayi* Kunth  
det. R. Carter  
occasional

**21978** [1] Convolvulaceae *Stylisma patens* (Desr.) Myint var. *patens*  
det. R. Carter  
trailing vine, common, flowers white

**21979** [1] Poaceae *Dichanthelium aciculare* (Desv. ex Poir.) Gould & Clark  
det. R. Carter  
common

**21980** [1] Cyperaceae *Cyperus hystricinus* Fernald  
det. R. Carter  
infrequent

**21981** [1] Cyperaceae *Scleria ciliata* Michx. var. *ciliata*  
det. R. Carter  
common

**21982** [1] Caryophyllaceae *Paronychia herniarioides* (Michx.) Nutt.  
det. R. Carter  
common

**Richard Carter** with W. W. Baker

**32.04451N/82.70168W**

2.04 airmiles WNW Jordan jct. Hwy GA 19, Hwy GA 126, and Hwy GA 134; Reese Thompson Place, Talmadge Tract

--subxeric ecotonal slope between longleaf pine/turkey oak upland and creek, deep sand with *Pinus palustris*, *Quercus laevis*, *Q. margarettae*, *Q. incana*, *Vaccinium arboreum*, *V. stamineum*, *V. elliottii*, *Hamamelis virginiana*, *Osmanthus americana*, *Gaylussacia frondosa*, *Toxicodendron pubescens*, *Serenoa repens*, *Styrax grandifolia*, *Aristida stricta*, *Licania michauxii*, *Eriogonum tomentosum*, *Tephrosia virginiana*, *Lupinus villosus*, *Amsonia ciliata*, *Liatris tenuifolia*, *Galactia regularis*, *Gelsemium sempervirens*, *Smilax auriculata*, *Hypericum gentianoides*, *Callisia rosea*, *Pityopsis graminifolia*, *Solidago odora*, *Eupatorium compositifolium*, *Opuntia*, *Cyperus hystricinus*, *Bulbostylis warei*

**21983 [3] Cyperaceae *Cyperus diminutus* R. Carter, sp. nov.**

det. R. Carter

infrequent

**21984 [1] Orobanchaceae *Aureolaria pectinata* (Nutt.) Pennell**

det. R. Carter

occasional

**Richard Carter** with W. W. Baker

**32.04124N/82.70024W**

1.89 airmiles WNW Jordan jct. Hwy GA 19, Hwy GA 126, and Hwy GA 134, Reese Thompson Place

--subxeric ecotonal flat at base of sandridge at confluence of two drains, open disturbed sand

**21985 [1] Cyperaceae *Cyperus plukenetii* Fernald**

det. R. Carter

occasional

**21986 [2] Fabaceae *Indigofera caroliniana* Mill.**

det. R. Carter

1.5 m herb, locally common

**21987 [2] Rosaceae *Crataegus michauxii* Pers. [*Crataegus flava* sensu auth., non Aiton]**

det. R. Carter

shrub, 4 m tall, occasional

**21988 [2] Arecaceae *Serenoa repens* (W. Bartram) Small**

det. R. Carter

common

**Richard Carter** with W. W. Baker

**32.0313N/82.69548W**

1.59 airmiles W Jordan jct. Hwy GA 19, Hwy GA 126, and Hwy GA 134, Reese Thompson Place

--sandy flat, base of sandridge, between sandridge and drain

with *Pinus palustris*, *Quercus margarettae*, *Q. incana*, *Q. nigra*, *Liquidambar styraciflua*, *Prunus serotina*, *Rhus copallina*, *Vaccinium arboreum*, *V. stamineum*, *V. myrsinites*, *Nolina georgiana*, *Toxicodendron pubescens*, *Aristida stricta*, *Anthaenanta villosa*, *Pteridium aquilinum*, *Sericocarpus tortifolius*, *Ionactis linariifolia*, *Solidago odora*, *Vernonia angustifolia*, *Eupatorium serotinum*, *Chrysopsis mariana*, *Silphium compositum*, *Berlandiera pumila*, *Baptisia lanceolata*, *Rhynchosia reniformis*, *Hypericum suffruticosum*, *Tragia urens*, *Cnidoscolus*, *Euphorbia exserta*, *Eriogonum tomentosum*, *Stylosma patens*, *Piriqueta*, *Eryngium yuccifolium*, *Scutellaria multiglandulosa*, *Cyperus plukenetii*, *C. filiculmis*, *Rhynchospora grayi*

Note: *Nolina georgiana* occasional

**21989 [1] Rubiaceae *Galium pilosum* Aiton**

det. R. Carter

common

**21990** [1] Asteraceae *Marshallia ramosa* Beadle & Boynton  
det. R. Carter  
infrequent

**21991** [1] Asteraceae *Coreopsis delphiniiifolia* Lamarck  
det. R. Carter  
occasional

**21992** [1] Fabaceae *Orbexilum lupinellus* (Michx.) Isely  
det. R. Carter  
infrequent

**21993** [1] Fabaceae *Stylosanthes biflora* (L.) Britt. et al.  
det. R. Carter  
common, flowers yellow

**21994** [1] Fabaceae *Tephrosia virginiana* (L.) Pers.  
det. R. Carter  
common

**21995** [1] Euphorbiaceae *Styllingia sylvatica* L.  
det. R. Carter  
common

**21996** [2] Fabaceae *Baptisia perfoliata* (L.) R. Br.  
det. R. Carter  
occasional

**21997** [1] Fabaceae *Pediomelum canescens* (Michx.) Rydb.  
det. R. Carter  
occasional

**21998** [1] Polypremaceae *Polypremum procumbens* L.  
det. R. Carter  
common

**21999** [1] Euphorbiaceae *Tragia urens* L. [*Tragia linearifolia* Elliott]  
det. R. Carter  
plants with stinging hairs, common

**22000** [1] Annonaceae *Asimina longifolia* Kral  
det. R. Carter  
1.5 m shrub, occasional

**22001** [1] Cyperaceae *Rhynchospora glomerata* (L.) Vahl  
det. R. Carter  
common

**22002** [1] Lamiaceae *Scutellaria multiglandulosa* (Kearney) Small ex Harper  
det. R. Carter  
occasional

**Richard Carter** with W. W. Baker

**32.03458N/82.69065W**

1.28 airmiles W Jordan jct. Hwy GA 19, Hwy GA 126, and Hwy GA 134, Reese Thompson Place  
--sandy, mesic slope

with *Pinus palustris*, *Aristida stricta*, *Quercus marilandica*, *Q. laevis*, *Q. margarettae*, *Q. incana*, *Ilex glabra*, *Diospyros virginiana*, *Vaccinium arboreum*, *V. myrsinites*, *V. stamineum*, *Rhus copallina*, *Lyonia mariana*, *Gaylussacia dumosa*, *Serenoa repens*, *Callicarpa americana*, *Toxicodendron pubescens*, *Yucca filamentosa*, *Smilax auriculata*, *Stillingia sylvatica*, *Nolina georgiana*, *Solidago odora*, *Pityopsis graminifolia*, *Pterocaulon pycnostachyum*, *Sericocarpus tortifolius*, *Lactuca graminifolia*, *Elephantopus elatus*, *Balduina uniflora*, *Eupatorium compositifolium*, *Berlandiera pumila*, *Eupatorium album*, *Liatris tenuifolia*, *Rudbeckia hirta*, *Symphyotrichum walteri*, *Vernonia angustifolia*, *Baptisia perfoliata*, *Galactia erecta*, *Tephrosia virginiana*, *Stylosanthes biflora*, *Chamaecrista nictitans*, *Mimosa strigillosa*, *Tragia urens*, *Xyris caroliniana*, *Panicum virgatum*, *Juncus dichotomus*, *Eriogonum tomentosum*, *Scutellaria multiglandulosa*, *Ipomoea pandurata*, *Cyperus filiculmis*, *Salvia azurea*, *Scleria triglomerata*, *Paspalum plicatulum*, *Polypteron procumbens*

**Note:** *Nolina georgiana* occasional

**22003** [1] Asteraceae *Rudbeckia hirta* L.

det. R. Carter  
occasional

**22004** [1] Fabaceae *Tephrosia chrysophylla* Pursh

det. R. Carter  
occasional

**22005** [1] Fabaceae *Galactia erecta* (Walter) Vail

det. R. Carter  
occasional

**22006** [1] Asteraceae *Eupatorium rotundifolium* L.

det. R. Carter  
common

**22007** [1] Fabaceae *Rhynchosia tomentosa* (L.) Hook. & Arn. var. *tomentosa*

det. R. Carter  
occasional

**22008** [1] Asclepiadaceae *Asclepias obovata* Elliott

det. R. Carter  
plants with latex, occasional

**22009** [1] Asteraceae *Silphium compositum* Michx. var. *compositum*

det. R. Carter  
common, heads yellow

**22010** [1] Fabaceae *Crotalaria purshii* DC.

det. R. Carter  
occasional

**22011** [1] Cyperaceae *Scleria ciliata* Michx. var. *ciliata*

det. R. Carter  
common

**22012** [1] Poaceae *Dichanthelium sphaerocarpon* (Elliott) Gould

det. R. Carter  
common

**22013** [1] Fabaceae *Rhynchosia reniformis* DC.

det. R. Carter  
occasional

**Richard Carter** with W. W. Baker

**32.03598N/82.69W**

1.24 airmiles W Jordan jct. Hwy GA 19, Hwy GA 126, and Hwy GA 134, Reese Thompson Place  
--seepy ecotone between longleaf pine-wiregrass slope and drain  
with *Pinus elliottii*, *Magnolia virginiana*, *Acer rubrum*, *Nyssa biflora*, *Quercus nigra*, *Cyrilla racemiflora*,  
*Myrica cerifera*, *Viburnum nudum*, *Vaccinium corymbosum*, *Toxicodendron vernix*, *Pinckneya bracteata*,  
*Ilex glabra*, *Lyonia lucida*, *Clethra alnifolia*, *Gaylussacia frondosa*, *Vitis rotundifolia*, *Smilax laurifolia*,  
*Rhexia mariana*, *R. alifanus*, *R. virginica*, *Polygala lutea*, *Apis americana*, *Cuscuta*, *Erechtites*  
*hieracifolia*, *Eupatorium rotundifolium*, *Xyris*, *Lachnocaulon anceps*, *Cyperus haspan*, *Fuirena breviseta*,  
*Juncus marginatus*, *J. scirpoides*, *Rhynchospora plumosa*, *Schizachyrium tenerum*

**22014 [1]** Loganiaceae *Mitreola sessilifolia* (J.F. Gmel.) G. Don

det. R. Carter

common

**22015 [1]** Gentianaceae *Sabatia quadrangula* Wilbur

det. R. Carter

occasional

**22016 [2]** Gentianaceae *Sabatia campanulata* (L.) Torr.

det. R. Carter

occasional

**22017 [1]** Scrophulariaceae *Gratiola pilosa* Michx.

det. R. Carter

occasional

**22018 [1]** Asclepiadaceae *Asclepias cinerea* Walter

det. R. Carter

occasional

**22019 [1]** Polygalaceae *Polygala nana* (Michx.) DC.

det. R. Carter

occasional

**22020 [1]** Clusiaceae *Hypericum myrtifolium* Lam.

det. R. Carter

common

**22021 [1]** Asteraceae *Balduina uniflora* Nutt.

det. R. Carter

common

**22022 [1]** Lycopodiaceae *Lycopodiella alopecuroides* (L.) Cranf.

det. R. Carter

occasional, runners arching up and rooting at intervals

**22023 [1]** Eriocaulaceae *Eriocaulon decangulare* L.

det. R. Carter

plants cespitose, common

**22024 [1]** Poaceae *Paspalum setaceum* Michx. var. *muhlenbergii* (Nash) D.J. Banks

det. R. Carter

common

**22025** [1] Linaceae *Linum floridanum* (Planch.) Trel.

det. R. Carter  
occasional

**22026** [3] Cyperaceae *Rhynchospora microcephala* (Britt.) Britt. ex Small

det. R. Carter  
common

**22027** [1] Cyperaceae *Rhynchospora glomerata* (L.) Vahl

det. R. Carter  
common

**22028** [3] Xyridaceae *Xyris stricta* Chapm.

det. R. Carter  
common

**22029** [1] Xyridaceae *Xyris jupicai* L.C. Rich.

det. R. Carter  
common

**22030** [1] Xyridaceae *Xyris stricta* Chapm.

det. R. Carter  
common

**22031** [1] Poaceae *Ctenium aromaticum* (Walt.) Wood

det. R. Carter  
common

--edge of drain

with *Pinus elliottii*, *Magnolia virginiana*, *Acer rubrum*, *Nyssa biflora*, *Quercus nigra*, *Cyrilla racemiflora*, *Myrica cerifera*, *Viburnum nudum*, *Vaccinium corymbosum*, *Toxicodendron vernix*, *Pinckneya bracteata*, *Ilex glabra*, *Lyonia lucida*, *Clethra alnifolia*, *Gaylussacia frondosa*, *Vitis rotundifolia*, *Smilax laurifolia*, *Rhexia mariana*, *R. alifanus*, *R. virginica*, *Polygala lutea*, *Aplos americana*, *Cuscuta*, *Erechtites hieracifolia*, *Eupatorium rotundifolium*, *Xyris*, *Lachnocaulon anceps*, *Cyperus haspan*, *Fuirena breviseta*, *Juncus marginatus*, *J. scirpoides*, *Rhynchospora plumosa*, *Schizachyrium tenerum*

Note: *Pinckneya bracteata* in drain

**22032** [2] Ericaceae *Lyonia lucida* (Lam.) K. Koch

det. R. Carter  
1-2 m shrub, common

**22033** [2] Cyrillaceae *Cliftonia monophylla* (Lam.) Britt. ex Sarg.

det. R. Carter  
4-5 m shrub, common

--seepy ecotone between longleaf pine-wiregrass slope and drain

with *Pinus elliottii*, *Magnolia virginiana*, *Acer rubrum*, *Nyssa biflora*, *Quercus nigra*, *Cyrilla racemiflora*, *Myrica cerifera*, *Viburnum nudum*, *Vaccinium corymbosum*, *Toxicodendron vernix*, *Pinckneya bracteata*, *Ilex glabra*, *Lyonia lucida*, *Clethra alnifolia*, *Gaylussacia frondosa*, *Vitis rotundifolia*, *Smilax laurifolia*, *Rhexia mariana*, *R. alifanus*, *R. virginica*, *Polygala lutea*, *Aplos americana*, *Cuscuta*, *Erechtites hieracifolia*, *Eupatorium rotundifolium*, *Xyris*, *Lachnocaulon anceps*, *Cyperus haspan*, *Fuirena breviseta*, *Juncus marginatus*, *J. scirpoides*, *Rhynchospora plumosa*, *Schizachyrium tenerum*

**22034** [7] Poaceae *Sporobolus curtissii* (Vasey) Small ex Scribn.

det. R. Carter  
locally common, cespitose

**22035** [1] Malvaceae *Hibiscus aculeatus* Walter  
 det. R. Carter  
 common

**22036** [1] Melastomataceae *Rhexia alifanus* Walter  
 det. R. Carter  
 common

**22037** [1] Onagraceae *Ludwigia maritima* Harper  
 det. R. Carter  
 common

**22038** [1] Rubiaceae *Galium pilosum* Aiton  
 det. R. Carter  
 common

**Richard Carter** with W. W. Baker  
**31.96133N/82.65343W**  
 0.6 mi N jct. Hwy GA 19 and Bells Ferry Rd, along E side Hwy GA 20  
 --sphagnous drain  
 with *Magnolia virginiana*, *Acer rubrum*, *Gordonia lasianthus*, *Persea palustris*, *Cliftonia monophylla*, *Nyssa biflora*, *Lyonia lucida*, *Ilex glabra*, *Rhexia mariana*, *Woodwardia virginica*

**22039** [3] Gentianaceae *Sabatia difformis* (L.) Druce  
 det. R. Carter  
 common

**22040** [3] Cyperaceae *Rhynchospora capitellata* (Michx.) Vahl???, spikelets immature  
 det. R. Carter  
 plants cespitose, common

**7/23/2014**  
**Richard Carter** with W. W. Baker  
**U.S.A. Georgia: Grady County**  
**30.81262N/84.12234W**  
 N of Lower Cairo Rd, Beverly Plantation, 0.75 airmile NW of headquarters  
 --margin of cypress-gum pond transitional to longleaf pine-wiregrass savanna  
 with *Acer rubrum*, *Persea palustris*, *Quercus virginiana*, *Ilex glabra*, *Lyonia ferruginea*, *Serenoa repens*,  
*Vaccinium darrowii*, *V. myrsinites*, *Aristida stricta*, *Pteridium aquilinum*, *Solidago stricta*, *Juncus marginatus*, *Seymeria cassioides*, *Rhexia alifanus*, *R. virginica*, *R. mariana*, *Bigelowia nudata*, *Gratiola pilosa*, *Tofieldia racemosa*, *Aletris*, *Eupatorium*, *Trilisa odoratissima*, *Balduina uniflora*, *Polygala lutea*, *Oclemna reticulata*, *Lachnocaulon anceps*, *Sabatia campanulata*, *Xyris caroliniana*, *X. stricta*, *Ilex glabra*

**22041** [1] Campanulaceae *Lobelia nuttallii* Schult.  
 det. R. Carter  
 common, corolla blue

**22042** [3] Xyridaceae *Xyris stricta* Chapm.  
 det. R. Carter  
 common

**22043** [2] Gentianaceae *Sabatia difformis* (L.) Druce  
 det. R. Carter  
 common, corolla white

**22044** [1] Gentianaceae *Sabatia campanulata* (L.) Torr.

det. R. Carter

common, corolla pink

**22045** [1] Juncaceae *Juncus marginatus* Rostk.

det. R. Carter

common

**22046** [3] Cyperaceae *Rhynchospora chapmanii* M.A. Curtis

det. R. Carter

common

**22047** [2] Clusiaceae *Hypericum cistifolium* Lam.

det. R. Carter

common, flowers yellow

**22048** [2] Loganiaceae *Mitreola sessilifolia* (Gmel.) D. Don

det. R. Carter

common, flowers white

**22049** [1] Asteraceae *Balduina uniflora* Nutt.

det. R. Carter

common, heads yellow

**22050** [1] Juncaceae *Juncus megacephalus* M.A. Curtis

det. R. Carter

common

**22051** [1] Onagraceae *Ludwigia virgata* Michx.

det. R. Carter

common, corolla yellow

**22052** [1] Linaceae *Linum sulcatum* Riddell

det. R. Carter

occasional, corolla yellow

**22053** [1] Fabaceae *Chamaecrista fasciculata* (Michx.) Greene

det. R. Carter

common, corolla yellow

**22054** [2] Cyperaceae *Rhynchospora plumosa* Elliott

det. R. Carter

common, cespitose

**22055** [1] Poaceae *Dichanthelium ensifolium* (Baldw. ex Ell.) Gould var. *unciphyllum* (Trin.) Hans. & Wund.

det. R. Carter

common

**22056** [2] Poaceae *Paspalum setaceum* Michx. var. *muhlenbergii* (Nash) D.J. Banks

det. R. Carter

common

**22057** [1] Fabaceae *Orbexilum psoraloides* (Walter) Vincent

det. R. Carter

occasional, corolla blue

**22058** [2] Fabaceae *Crotalaria purshii* DC.  
det. R. Carter  
occasional

**22059** [2] Orchidaceae *Platanthera cristata* (Michx.) Lindl.  
det. R. Carter  
locally common, corolla yellowish orange

**22060** [2] Cyperaceae *Rhynchospora fascicularis* (Michx.) Vahl  
det. R. Carter  
common

**22061** [2] Poaceae *Ctenium aromaticum* (Walter) Wood  
det. R. Carter  
common

**22062** [1] Xyridaceae *Xyris platylepis* Chapm.  
det. R. Carter  
common

**22063** [2] Eriocaulaceae *Eriocaulon decangulare* L.  
det. R. Carter  
common, heads white

**22064** [1] Cyperaceae *Rhynchospora fascicularis* (Michx.) Vahl  
det. R. Carter  
common

**22065** [1] Cyperaceae *Rhynchospora torreyana* Gray  
det. R. Carter  
occasional

**22066** [2] Cyperaceae *Rhynchospora fascicularis* (Michx.) Vahl  
det. R. Carter  
common

**22067** [1] Cyperaceae *Rhynchospora debilis* Gale  
det. R. Carter  
common, cespitose

**22068** [1] Cyperaceae *Eleocharis baldwinii* (Torr.) Chap.  
det. R. Carter  
common

--longleaf pine-wiregrass savanna  
with *Pinus palustris*, *Aristida stricta*, *Sporobolus floridanus*, *Quercus pumila*, *Pityopsis graminifolia*,  
*Asimina longifolia*, *Xyris caroliniana*, *Rhexia alifanus*, *Pteridium aquilinum*, *Aster adnatus*, *A. tortifolius*,  
*Gaylussacia frondosa*, *Rubus cuneifolius*  
Note: *Gopherus* and *Geomys* burrows observed; Bachman's sparrow heard

**22069** [1] Asteraceae *Vernonia angustifolia* Michx. var. *angustifolia*  
det. R. Carter  
common, heads purple

**22070** [1] Apiaceae *Eryngium yuccifolium* Michx.

det. R. Carter  
occasional

**22071** [1] Asteraceae *Elephantopus nudatus* Gray  
det. R. Carter  
common, corolla purple

**22072** [1] Fabaceae *Pediomelum canescens* (Michx.) Rydb. [*Psoralea canescens* Michx.]  
det. R. Carter  
occasional

--cypress-gum pond  
with *Taxodium ascendens*, *Nyssa biflora*, *Ilex myrtifolia*, *Persea palustris*, *Lyonia lucida*, *Eubotrys racemosa*, *Itea virginica*, *Cyrilla racemiflora*, *Myrica cerifera*, *Carex striata*, *Xyris fimbriata*, *Woodwardia virginica*, *Sphagnum*

**22073** [1] Cyridaceae *Xyris fimbriata* Elliott  
det. R. Carter  
common

**22074** [2] Lauraceae *Persea palustris* (Raf.) Sarg.  
det. R. Carter  
10 m tree, common

**22075** [1] Cyrillaceae *Cyrilla racemiflora* L.  
det. R. Carter  
8 m tree, common

**22076** [3] Ericaceae *Eubotrys racemosa* (L.) Nutt. [*Leucothoe racemosa* (L.) Gray]  
det. R. Carter  
shrub, 3-4 m tall, common

**22077** [1] Iteaceae *Itea virginica* L.  
det. R. Carter  
2 m shrub, common

**22078** [1] Aquifoliaceae *Ilex myrtifolia* Walter  
det. R. Carter  
6 m tree, common

**22079** [3] Ericaceae *Lyonia lucida* (Lam.) Koch  
det. R. Carter  
shrub, 4-5 m tall!, common

**22080** [2] Cyperaceae *Rhynchospora cephalantha* Gray  
det. R. Carter  
common

**22081** [1] Cyridaceae *Xyris stricta* Chapm.  
det. R. Carter  
common

**22082** [1] Cyperaceae *Rhynchospora inundata* (Oakes) Fern.  
det. R. Carter  
common

**22083** [1] Cyperaceae *Carex striata* Michx.  
det. R. Carter  
locally abundant

**22084** [1] Asclepiadaceae *Asclepias cinerea* Walter  
det. R. Carter  
occasional

**Richard Carter** with W. W. Baker  
**30.80638N/84.11964W**

N of Lower Cairo Rd, Beverly Plantation, 0.41 airmile W of headquarters  
--knoll in longleaf pine-wiregrass savanna  
with *Pinus palustris*, *Aristida stricta*, *Sassafras albidum*, *Quercus falcata*, *Q. hemisphaerica*, *Vaccinium stamineum*, *V. myrsinites*, *Solidago odora*, *Aster tortifolius*, *Vernonia angustifolia*, *Centrosema virginiana*, *Pteridium aquilinum*

**22085** [1] Rubiaceae *Galium pilosum* Ait.  
det. R. Carter  
plants clambering, common

**22086** [1] Fabaceae *Rhynchosia reniformis* DC.  
det. R. Carter  
plants common, stems erect, corolla yellow

**22087** [2] Asteraceae *Verbesina aristata* (Elliott) Heller  
det. R. Carter  
occasional

**22088** [1] Asteraceae *Rudbeckia hirta* L.  
det. R. Carter  
common, rays yellow, disk black

**Richard Carter** with W. W. Baker  
**30.8080N/84.12132W**

N of Lower Cairo Rd, Beverly Plantation, 0.54 airmile WNW of headquarters  
--degraded flatwoods drain, planted in slash pine, heavily disturbed

**22089** [1] Malvaceae *Hibiscus aculeatus* Walter  
det. R. Carter  
common, corolla white with dark purple eye

**22090** [1] Lamiaceae *Pycnanthemum flexuosum* (Walter) Britt. et al.  
det. R. Carter  
common

**22091** [1] Lamiaceae *Pycnanthemum flexuosum* (Walter) Britt. et al.  
det. R. Carter  
common

**22092** [1] Fabaceae *Galactia regularis* (L.) Britt. et al.  
det. R. Carter  
twining vine, common, corolla blue

**22093** [2] Asteraceae *Eupatorium album* L.  
det. R. Carter  
common

**22094** [1] Cyperaceae *Cyperus strigosus* L.  
det. R. Carter  
common

**22095** [2] Clusiaceae *Hypericum galiodes* Lam.  
det. R. Carter  
locally common, flowers yellow

**22096** [1] Loganiaceae *Cuphea carthagensis* (Jacq.) Macbr.  
det. R. Carter  
common, corolla purple

**22097** [1] Euphorbiaceae *Ditrysinia fruticosa* (Bartr.) Gov. & Frod. [*Sebastiania fruticosa* (Bartram) Fern.]  
det. R. Carter  
shrub, 2 m tall, common

**Richard Carter** with W. W. Baker  
**30.81817N/84.12733W**

N of Lower Cairo Rd, Beverly Plantation, 1.23 airmiles NW of headquarters  
--mesic slope, riparian woods, river terrace  
with *Magnolia grandiflora*, *Quercus virginiana*, *Q. hemisphaerica*, *Q. nigra*, *Fagus grandifolia*, *Pinus glabra*, *Carya glabra*, *Osmanthus americana*, *Amelanchier arborea*, *Serenoa repens*, *Ditrysinia fruticosa*, *Callicarpa americana*

Note: *Epidendrum conopseum* on 6-8 trees, all *Magnolia grandiflora*, but one *Quercus hemisphaerica*.

**22098** [1] Orchidaceae *Epidendrum conopseum* Aiton [*Epidendrum magnoliae* Muhl., nom. illeg.]  
det. R. Carter  
epiphytic on bullbay magnolia

**22099** [2] Campanulaceae *Lobelia flaccidifolia* Small  
det. R. Carter  
locally common, corolla blue

**22100** [1] Ericaceae *Vaccinium arboreum* Marsh.  
det. R. Carter  
small understory tree, common

**22101** [5] Arecaceae *Serenoa repens* (Bartram) Small  
det. R. Carter  
common

**22102** [2] Hypoxidaceae *Hypoxis curtissii* Rose  
det. R. Carter  
common

**7/24/2014**

**Richard Carter** with F. Snow  
**U.S.A. Georgia: Atkinson County**  
**31.24103N/83.02739W**

6.96 airmiles S (bearing 170.65°) of Willacoochee jct. Hwy GA 135 and Hwy US 82, W of Springhead Church Rd, E of Alapaha River, Alapaha River Ranch  
--disturbed seepage slope along ecotone between degraded sandridge and drain

with *Pinus palustris*, *P. taeda*, *P. clausa*, *Quercus laevis*, *Q. margarettae*, *Q. incana*, *Q. virginiana*, *Rhus copallina*, *Lyonia mariana*, *Licania michauxii*, *Aristida stricta*, *Pteridium aquilinum*, *Eriogonum tomentosum*, *Eupatorium compositifolium*

**22103 [1]** Melastomataceae *Rhexia petiolata* Walter  
det. R. Carter  
locally common

--degraded sandridge  
with *Pinus palustris*, *P. taeda*, *P. clausa*, *Quercus laevis*, *Q. margarettae*, *Q. incana*, *Q. virginiana*, *Rhus copallina*, *Lyonia mariana*, *Licania michauxii*, *Aristida stricta*, *Pteridium aquilinum*, *Eriogonum tomentosum*, *Eupatorium compositifolium*

**22104 [1]** Poaceae *Dichanthelium aciculare* (Desv. ex Poir.) Gould & Clark  
det. R. Carter  
common

**22105 [1]** Poaceae *Dichanthelium sphaerocarpon* (Elliott) Gould  
det. R. Carter  
locally common

**22106 [1]** Clusiaceae *Hypericum microsepalum* (Torr. & Gray) Gray & Watson  
det. R. Carter  
locally common

**22107 [4]** Fabaceae *Indigofera caroliniana* Mill.  
det. R. Carter  
occasional

**22108 [1]** Fabaceae *Centrosema virginiana* (L.) Benth.  
det. R. Carter  
occasional

**22109 [1]** Commelinaceae *Commelina erecta* L.  
det. R. Carter  
occasional

**22110 [1]** Rubiaceae *Galium pilosum* Aiton  
det. R. Carter  
common

**22111 [1]** Euphorbiaceae *Croton argyranthemus* Michx.  
det. R. Carter  
occasional

**22112 [2]** Cistaceae *Lechea deckertii* Small  
det. R. Carter  
occasional

**22113 [1]** Euphorbiaceae *Croton michauxii* Webster [*Crotonopsis linearis* Michx.]  
det. R. Carter  
common

--disturbed seepage slope along ecotone between degraded sandridge and drain

with *Pinus palustris*, *P. taeda*, *P. clausa*, *Quercus laevis*, *Q. margarettae*, *Q. incana*, *Q. virginiana*, *Rhus copallina*, *Lyonia mariana*, *Licania michauxii*, *Aristida stricta*, *Pteridium aquilinum*, *Eriogonum tomentosum*, *Eupatorium compositifolium*

**22114 [2]** Xyridaceae *Xyris platylepis* Chapm.

det. R. Carter  
occasional

--degraded sandridge

with *Pinus palustris*, *P. taeda*, *P. clausa*, *Quercus laevis*, *Q. margarettae*, *Q. incana*, *Q. virginiana*, *Rhus copallina*, *Lyonia mariana*, *Licania michauxii*, *Aristida stricta*, *Pteridium aquilinum*, *Eriogonum tomentosum*, *Eupatorium compositifolium*

**22116 [2]** Poaceae *Paspalum setaceum* Michx. var. *vilosissimum* (Nash) Banks

det. R. Carter  
common

--disturbed seepage slope along ecotone between degraded sandridge and drain

with *Pinus palustris*, *P. taeda*, *P. clausa*, *Quercus laevis*, *Q. margarettae*, *Q. incana*, *Q. virginiana*, *Rhus copallina*, *Lyonia mariana*, *Licania michauxii*, *Aristida stricta*, *Pteridium aquilinum*, *Eriogonum tomentosum*, *Eupatorium compositifolium*

**22117 [1]** Juncaceae *Juncus scirpoides* Lam.

det. R. Carter  
common

--degraded sandridge

with *Pinus palustris*, *P. taeda*, *P. clausa*, *Quercus laevis*, *Q. margarettae*, *Q. incana*, *Q. virginiana*, *Rhus copallina*, *Lyonia mariana*, *Licania michauxii*, *Aristida stricta*, *Pteridium aquilinum*, *Eriogonum tomentosum*, *Eupatorium compositifolium*

**22118 [1]** Cyperaceae *Scleria triglomerata* Michx.

det. R. Carter  
occasional

**22119 [3]** Cyperaceae *Cyperus diminutus* R. Carter, sp. nov.

det. R. Carter  
occasional

**22120 [1]** Fabaceae *Clitoria mariana* L.

det. R. Carter  
occasional

**22123 [1]** Rosaceae *Rubus cuneifolius* Pursh

det. R. Carter  
common

--disturbed seepage slope along ecotone between degraded sandridge and drain

with *Pinus palustris*, *P. taeda*, *P. clausa*, *Quercus laevis*, *Q. margarettae*, *Q. incana*, *Q. virginiana*, *Rhus copallina*, *Lyonia mariana*, *Licania michauxii*, *Aristida stricta*, *Pteridium aquilinum*, *Eriogonum tomentosum*, *Eupatorium compositifolium*

**22124 [1]** Onagraceae *Ludwigia maritima* Harper

det. R. Carter  
occasional

--edge of drain  
 with *Gordonia lasianthus*, *Cyrilla racemiflora*, *Cliftonia monophylla*, *Persea palustris*, *Myrica cerifera*,  
*Leucothoe racemosa*, *Lyonia lucida*

**22125 [1]** Cyrillaceae *Cliftonia monophylla* (Lam.) Sarg.  
 det. R. Carter  
 4-5 m shrub, locally common

**22126 [1]** Clethraceae *Clethra alnifolia* L.  
 det. R. Carter  
 1.5-2 m shrub, locally common

**22127 [2]** Ericaceae *Lyonia fruticosa* (Michx.) G.S. Torr.  
 det. R. Carter  
 3 m shrub, occasional

--degraded sandridge  
 with *Pinus palustris*, *P. taeda*, *P. clausa*, *Quercus laevis*, *Q. margarettae*, *Q. incana*, *Q. virginiana*, *Rhus copallina*, *Lyonia mariana*, *Licania michauxii*, *Aristida stricta*, *Pteridium aquilinum*, *Eriogonum tomentosum*, *Eupatorium compositifolium*

**22128 [3]** Annonaceae *Asimina incana* (Bartr.) Exell  
 det. R. Carter  
 occasional

**22129 [3]** Cyperaceae *Rhynchospora plumosa* Elliott  
 det. R. Carter  
 occasional

**Richard Carter** with F. Snow  
**31.23786N/83.02742W**

7.18 airmiles S (bearing 170.95°) of Willacoochee jct. Hwy GA 135 and Hwy US 82, W of Springhead Church Rd, E of Alapaha River, Alapaha River Ranch

--degraded sandridge  
 with *Pinus palustris*, *P. taeda*, *P. clausa*, *Quercus laevis*, *Q. margarettae*, *Q. incana*, *Q. virginiana*, *Rhus copallina*, *Lyonia mariana*, *Licania michauxii*, *Aristida stricta*, *Pteridium aquilinum*, *Eriogonum tomentosum*, *Eupatorium compositifolium*

**22130 [1]** Cyperaceae *Cyperus nashii* Britt. ex Small  
 det. R. Carter  
 infrequent

**Richard Carter** with F. Snow  
**31.23233N/83.02465W**

7.58 airmiles S (bearing 170.18°) of Willacoochee jct. Hwy GA 135 and Hwy US 82, W of Springhead Church Rd, E of Alapaha River, Alapaha River Ranch

--head of creek  
 with *Nyssa biflora*, *Acer rubrum*, *Cliftonia monophylla*, *Myrica cerifera*, *Ilex myrtifolia*, *I. coriacea*, *Rhododendron viscosum*, *Smilax laurifolia*

**22131 [1]** Xyridaceae *Xyris jupicai* L.C. Rich.  
 det. R. Carter  
 locally common

**22132 [2]** Xyridaceae *Xyris stricta* Chapm.  
 det. R. Carter

locally common

**22133** [1] Cyperaceae *Rhynchospora corniculata* (Lam.) Gray  
det. R. Carter  
occasional

**22134** [1] Haemodoraceae *Lachnanthes caroliana* (Lam.) Dandy  
det. R. Carter  
occasional to locally common

**22135** [1] Cyperaceae *Rhynchospora cephalantha* Gray  
det. R. Carter  
common

**22136** [1] Xyridaceae *Xyris jupicai* L.C. Rich.  
det. R. Carter  
locally common

**22137** [1] Xyridaceae *Xyris difformis* Chapm.  
det. R. Carter  
locally common

**22138** [1] Xyridaceae *Xyris jupicai* L.C. Rich.  
det. R. Carter  
locally common

**22139** [1] Cyperaceae *Rhynchospora fascicularis* (Michx.) Vahl  
det. R. Carter  
common

**22140** [2] Cyperaceae *Rhynchospora fascicularis* (Michx.) Vahl  
det. R. Carter  
common

**22141** [2] Cyperaceae *Rhynchospora inexpansa* (Michx.) Vahl  
det. R. Carter  
common

**22142** [3] Eriocaulaceae *Syngonanthus flavidulus* (Michx.) Ruhl.  
det. R. Carter  
locally common, cespitose

**22143** [1] Eriocaulaceae *Lachnocaulon anceps* (Walt.) Morong  
det. R. Carter  
locally common, cespitose

**22144** [2] Juncaceae *Juncus repens* Michx.  
det. R. Carter  
locally common

**22145** [2] Aquifoliaceae *Ilex coriacea* (Pursh) Chapm.  
det. R. Carter  
locally common

**22146** [3] Aquifoliaceae *Ilex myrtifolia* Walter  
det. R. Carter

occasional

**22147** [1] Scrophulariaceae *Gratiola hispida* (Benth. ex Lindl.) Pollard [*Sophronanthe hispida* Benth. ex Lindl.]

det. R. Carter  
occasional

**22148** [1] Scrophulariaceae *Gratiola pilosa* Michx.

det. R. Carter  
occasional

**Richard Carter** with F. Snow

**31.23051N/83.03712W**

7.61 airmiles S (bearing 175.80°) of Willacoochee jct. Hwy GA 135 and Hwy US 82, W of Springhead Church Rd, E of Alapaha River, Alapaha River Ranch

--head of creek

with *Nyssa biflora*, *Acer rubrum*, *Cliftonia monophylla*, *Myrica cerifera*, *Ilex myrtifolia*, *I. coriacea*, *Rhododendron viscosum*, *Smilax laurifolia*

**22149** [1] Ericaceae *Lyonia ligustrina* (L.) DC.

det. R. Carter  
occasional

**22149a** [1] Ericaceae *Eubotrys racemosa* (L.) Nutt. [*Leucothoe racemosa* (L.) Gray]

det. R. Carter  
locally common

**22150** [1] Polygalaceae *Polygala nuttallii* Torr. & Gray

det. R. Carter  
occasional

**22151** [2] Cyrillaceae *Cyrilla racemiflora* L.

det. R. Carter  
4 m shrub, common

**22152** [2] Aquifoliaceae *Ilex glabra* (L.) Gray

det. R. Carter  
1.5 m shrub, common

**22153** [1] Rubiaceae *Diodia virginiana* L.

det. R. Carter  
common

**22154** [1] Ericaceae *Lyonia lucida* (Lam.) K. Koch

det. R. Carter  
1.5 m shrub, common

**22155** [1] Poaceae *Dichanthelium aciculare* (Desv. ex Poir.) Gould & Clark

det. R. Carter  
occasional

**22156** [1] Juncaceae *Juncus validus* Cov.

det. R. Carter  
occasional

**22157** [1] Cistaceae *Lechea deckertii* Small

det. R. Carter  
occasional

**22158** [2] Clusiaceae *Hypericum galoides* Lam.

det. R. Carter  
1.5 m shrub, locally common

**Richard Carter** with F. Snow

**31.22513N/83.04829W**

7.96 airmiles S (bearing 180.73°) of Willacoochee jct. Hwy GA 135 and Hwy US 82, W of Springhead Church Rd, near end of McCranie East Rd, E of Alapaha River, vic. Round Lake and Half Moon Lake, Alapaha River Ranch

--overflow channel between Half Moon Lake and river

with *Nyssa ogeche*, *N. biflora*, *Taxodium distichum*, *Quercus laurifolia*, *Acer rubrum*

**22159** [1] Asteraceae *Erechtites hieracioides* (L.) Raf.

det. R. Carter  
occasional

**22160** [1] Cyperaceae *Cyperus pseudovegetus* Steud.

det. R. Carter  
locally common

**22161** [1] Campanulaceae *Lobelia flaccidifolia* Small

det. R. Carter  
infrequent, corolla blue

**22162** [2] Poaceae *Paspalum boscianum* Flügge

det. R. Carter  
locally common

**22163** [2] Cyperaceae *Carex glaucescens* Elliott

det. R. Carter  
occasional

**22164** [1] Cyperaceae *Scirpus cyperinus* (L.) Kunth

det. R. Carter  
locally common

**Richard Carter** with F. Snow

**31.22864N/83.01985W**

7.88 airmiles S (bearing 168.47°) of Willacoochee jct. Hwy GA 135 and Hwy US 82, W of Springhead Church Rd, E of Alapaha River, 0.6 mi SW jct. Hill Rd and Springhead Church Rd, along Hill Rd, Alapaha River Ranch

--degraded drain, disturbed sandy soil  
with *Panicum hemitomon*

**22165** [2] Onagraceae *Ludwigia suffruticosa* Walter

det. R. Carter  
locally common

**Richard Carter** with F. Snow

**31.23074N/83.01646W**

7.78 airmiles S (bearing 166.82°) of Willacoochee jct. Hwy GA 135 and Hwy US 82, W of Springhead Church Rd, E of Alapaha River, 0.3 mi SW jct. Hill Rd and Springhead Church Rd, along Hill Rd, Alapaha River Ranch

--degraded sandridge, edge of pine plantation  
 with *Quercus laevis*, *Q. margarettae*, *Q. incana*, *Diospyros virginiana*, *Vaccinium arboreum*, *Rhus copallina*, *Asimina incana*, *Serenoa repens*, *Eriogonum tomentosum*, *Eupatorium compositifolium*

**22166 [1]** Fabaceae *Chamaecrista fasciculata* (Michx.) Greene  
 det. R. Carter  
 common

**22167 [1]** Euphorbiaceae *Euphorbia discoidalis* Chapm.  
 det. R. Carter  
 occasional

**22168 [2]** Asteraceae *Rudbeckia hirta* L.  
 det. R. Carter  
 common

**22169 [1]** Poaceae *Dichanthelium acuminatum* (Sw.) Gould & Clark subsp. *acuminatum*  
 det. R. Carter  
 common

**22170 [1]** Ericaceae *Vaccinium stamineum* L.  
 det. R. Carter  
 low shrub, common

**22171 [1]** Polypremaceae *Polypremum procumbens* L.  
 det. R. Carter  
 common

**22172 [1]** Clusiaceae *Hypericum gentianoides* (L.) Britt. et al.  
 det. R. Carter  
 common

**22173 [1]** Poaceae *Paspalum setaceum* Michx. var. *villosum* (Nash) Banks  
 det. R. Carter  
 common

**Richard Carter** with F. Snow  
**31.2169N/83.01578W**  
 0.6 mi NW jct. Live Oak Church Rd and Springhead Church Rd, along E side Springhead Church Rd  
 --cypress-gum pond  
 with *Nyssa biflora*, *Taxodium ascendens*, *Ilex myrtifolia*, *Clethra alnifolia*, *Hypericum fasciculatum*,  
*Woodwardia virginica*, *Panicum hemitomon*, *Amphicarpum muhlenbergianum*  
 Note: extensive clone of *Amphicarpum muhlenbergianum* observed along heavily logged pond margin  
 near road.

**22174 [1]** Poaceae *Dichanthelium erectifolium* (Nash) Gould & Clark  
 det. R. Carter  
 common

**22175 [3]** Nyssaceae *Nyssa biflora* Walter  
 det. R. Carter  
 common

**22176 [2]** Clethraceae *Clethra alnifolia* L.  
 det. R. Carter  
 common

**22177 [2]** Ericaceae *Pieris phyllyreifolia* (Hook.) DC.

det. R. Carter

rare woody vine with its stem climbing between inner and outer bark of pond cypress

**22178 [2]** Ericaceae *Eubotrys racemosa* (L.) Nutt. [*Leucothoe racemosa* (L.) Gray]

det. R. Carter

3 m shrub, common

**22179 [3]** Droseraceae *Drosera capillaris* Poir.

det. R. Carter

locally abundant on exsiccated pond bottom

**Richard Carter** with F. Snow

**31.20026N/82.99233W**

Featherbed Bay, 1.75 mi NW jct. Hwy GA 64 and Springhead Church Rd, along NE side Springhead Church Rd

--bayswamp

with *Nyssa biflora*, *Magnolia virginiana*, *Gordonia lasianthus*, *Acer rubrum*, *Cyrilla racemiflora*, *Cliftonia monophylla*, *Myrica cerifera*, *Salix nigra*, *Cephalanthus occidentalis*, *Smilax laurifolia*

**22180 [3]** Rubiaceae *Cephalanthus occidentalis* L.

det. R. Carter

4 m shrub, common, flowers white

**22181 [2]** Iteaceae *Itea virginica* L.

det. R. Carter

2 m shrub, common

**22182 [1]** Ericaceae *Lyonia lucida* (Lam.) K. Koch

det. R. Carter

2 m shrub, common

**22183 [3]** Magnoliaceae *Magnolia virginiana* L.

det. R. Carter

10 m tree, common

**22184 [3]** Cyperaceae *Carex glaucescens* Elliott

det. R. Carter

occasional

**8/13/2014**

**Richard Carter** with F. Snow

**U.S.A. Georgia: Jeff Davis County**

**31.79147N/82.81316W**

0.87 airmile NW (312.50°) Piney Grove Baptist Church, Flat Tub Wildlife Management Area, W of Rocky Hammock Landing Rd, N of Piney Grove Church Rd

--seep over sandstone outcrop

with *Pinus taeda*, *Nyssa biflora*, *Acer rubrum*, *Liquidambar styraciflua*, *Vaccinium stamineum*, *Ilex glabra*, *Rhexia mariana*, *Rhynchospora inexpansa*

**22187 [1]** Poaceae *Dichanthelium aciculare* Desv. ex Poir. subsp. *neuranthum* (Griseb.) Freckmann & Lelong

det. R. Carter

locally common

**22188** [1] Polygalaceae *Polygala chapmanii* Torr. & Gray  
det. R. Carter  
occasional

**22189** [1] Cyperaceae *Rhynchospora globularis* (Chapm.) Small var. *globularis*  
det. R. Carter  
occasional

**22190** [2] Cyperaceae *Rhynchospora plumosa* Elliott  
det. R. Carter  
occasional

**22191** [1] Melastomataceae *Rhexia mariana* L.  
det. R. Carter  
locally common

**22192** [1] Melastomataceae *Rhexia mariana* L.  
det. R. Carter  
locally common

**22193** [1] Asteraceae *Balduina uniflora* Nutt.  
det. R. Carter  
occasional

**22194** [2] Poaceae *Eragrostis virginica* (Zucc.) Steud.  
det. R. Carter  
common

**22195** [1] Cyperaceae *Scleria triglomerata* Michx.  
det. R. Carter  
common

--sandy bank of intermittent branch  
with *Pinus taeda*, *Nyssa biflora*, *Acer rubrum*, *Liquidambar styraciflua*, *Vaccinium stamineum*, *Ilex glabra*,  
*Rhexia mariana*, *Rhynchospora inexpansa*

**22196** [2] Xyridaceae *Xyris platylepis* Chapm.  
det. R. Carter  
common

**22197** [1] Poaceae *Chasmanthium laxum* (L.) H.A. Yates var. *sessiliflorum* (Poir.) Wipff & Jones  
det. R. Carter  
common

**22198** [2] Cyperaceae *Rhynchospora glomerata* (L.) Vahl  
det. R. Carter  
common

**22199** [1] Cyperaceae *Rhynchospora cephalantha* A. Gray  
det. R. Carter  
common

**22200** [1] Cyperaceae *Rhynchospora glomerata* (L.) Vahl  
det. R. Carter  
common

**22201** [2] Cyperaceae *Carex glaucescens* Elliott  
det. R. Carter  
common

--seep over sandstone outcrop  
with *Pinus taeda*, *Nyssa biflora*, *Acer rubrum*, *Liquidambar styraciflua*, *Vaccinium stamineum*, *Ilex glabra*,  
*Rhexia mariana*, *Rhynchospora inexpansa*

**22202** [1] Xyridaceae *Xyris elliotii* Chapm.  
det. R. Carter  
common

**22203** [1] Asteraceae *Eupatorium album* L.  
det. R. Carter  
common

**22204** [1] Asteraceae *Marshallia tenuifolia* Raf.  
det. R. Carter  
occasional

**22205** [3] Cyperaceae *Fuirena squarrosa* Michx.  
det. R. Carter  
common

**22206** [1] Scrophulariaceae *Gratiola pilosa* Michx.  
det. R. Carter  
occasional

**22207** [1] Polygalaceae *Polygala chapmanii* Torr. & Gray  
det. R. Carter  
occasional

**22208** [1] Clusiaceae *Hypericum setosum* L.  
det. R. Carter  
occasional

**22209** [1] Xyridaceae *Xyris caroliniana* Walter  
det. R. Carter  
common

**22210** [1] Eriocaulaceae *Eriocaulon*  
det. R. Carter  
common, cespitose  
Note: Must work more with this specimen!

**22211** [2] Poaceae *Schizachyrium tenerum* Nees  
det. R. Carter  
common

**22212** [1] Clusiaceae *Hypericum gentianoides* (L.) Britt. et al.  
det. R. Carter  
common

**22213** [1] Xyridaceae *Xyris stricta* Chapm.  
det. R. Carter

common

**22214 [1]** Poaceae *Aristida longispica* Poir. var. *geniculata* (Raf.) Fern.

det. R. Carter

common

**Richard Carter** with F. Snow

**31.79237N/82.81146W**

0.84 airmile NW (320.23°) Piney Grove Baptist Church, Flat Tub Wildlife Management Area, W of Rocky Hammock Landing Rd, N of Piney Grove Church Rd

--disturbed sandy upland and seep

with *Pinus taeda*, *Nyssa biflora*, *Acer rubrum*, *Liquidambar styraciflua*, *Vaccinium stamineum*, *Ilex glabra*, *Rhexia mariana*, *Rhynchospora inexpansa*

**22215 [1]** Poaceae *Paspalum floridanum* Michx.

det. R. Carter

occasional

**22216 [1]** Melastomataceae *Rhexia alifanus* Walter

det. R. Carter

occasional

**22217 [1]** Poaceae *Steinchisma hians* (Ell.) Nash [*Panicum hians* Elliott]

det. R. Carter

occasional

**22218 [1]** Poaceae *Steinchisma hians* (Ell.) Nash [*Panicum hians* Elliott]

det. R. Carter

occasional

**22219 [1]** Poaceae *Urochloa ramosa* (L.) Nguyen [*Panicum ramosum* L.]

det. R. Carter

occasional

**Richard Carter** with F. Snow

**31.79475N/82.80516W**

0.83 airmile N (348.07°) Piney Grove Baptist Church, Flat Tub Wildlife Management Area, W of Rocky Hammock Landing Rd, N of Piney Grove Church Rd

--bank of small intermittent branch

with *Quercus nigra*, *Acer rubrum*, *Nyssa biflora*, *Liquidambar styraciflua*, *Lyonia lucida*, *Clethra alnifolia*, *Ilex glabra*, *Morella cerifera*, *M. caroliniensis*, *Cyrilla racemiflora*, *Viburnum nudum*, *Vaccinium elliottii*, *Chasmanthium sessiliflorum*

**22220 [3]** Cyperaceae *Rhynchospora gracilenta* A. Gray

det. R. Carter

common, cespitose

**22221 [1]** Cyperaceae *Rhynchospora corniculata* (Lam.) A. Gray

det. R. Carter

common

**Richard Carter** with F. Snow

**31.79566N/82.80663W**

0.91 airmile NNW (343.63°) Piney Grove Baptist Church, Flat Tub Wildlife Management Area, W of Rocky Hammock Landing Rd, N of Piney Grove Church Rd

--sandstone outcrop in a longleaf pine-wiregrass matrix

**22222** [1] Portulacaceae *Phemeranthus mengesii* (Wolf) Kiger [*Talinum mengesii* Wolf]  
 det. R. Carter  
 common

**22223** [1] Euphorbiaceae *Croton willdenowii* Webster [*Crotonopsis elliptica* Willd.]  
 det. R. Carter  
 common

**22224** [1] Poaceae *Tridens ambiguus* (Ell.) Schult.  
 det. R. Carter  
 infrequent

**22225** [2] Poaceae *Andropogon gerardii* Vittm.  
 det. R. Carter  
 occasional

**22226** [1] Polygonaceae *Eriogonum tomentosum* Michx.  
 det. R. Carter  
 occasional

**Richard Carter** with F. Snow  
**31.81497N/82.82304W**

Flat Tub Wildlife Management Area, Rocky Hammock Landing, along S bank of Ocmulgee River near end of Rocky Hammock Landing Rd  
 --riparian woods

**22227** [1] Scrophulariaceae *Lindernia dubia* (L.) Pennell var. *anagallidea* (Michx.) Cooperr.  
 det. R. Carter  
 common in sandy swale

**22228** [2] Fagaceae *Quercus lyrata* Walter  
 det. R. Carter  
 large tree, occasional

**22229** [1] Asteraceae *Conoclinium coelestinum* (L.) DC. [*Eupatorium coelestinum* L.]  
 det. R. Carter  
 common, heads blue

**22230** [1] Poaceae *Chasmanthium latifolium* (Michx.) H.A. Yates  
 det. R. Carter  
 common, panicles drooping

**22231** [1] Fabaceae *Galactia regularis* (L.) Britt. et al.  
 det. R. Carter  
 occasional

**8/29/2014**

**Richard Carter** with W. W. Baker  
**U.S.A. Georgia: Colquitt County**  
**31.3170N/83.70817W**

3.46 airmiles NNW (bearing 338.51°) Norman Park jct. Hwy US 319 and Norman Park-Ellenton Rd; Victor Beadle property  
 --sandstone outcrop surrounded by longleaf pine-wiregrass savanna  
 with *Pinus palustris*, *Quercus marilandica*, *Q. virginiana*, *Nyssa*, *Aristida stricta*, *Schizachyrium tenerum*, *Andropogon gerardii*

**22232 [1]** Clusiaceae *Hypericum virginatum* Lam.

det. R. Carter

occasional

**22233 [1]** Poaceae *Digitaria ciliaris* (Retz.) Koeler

det. R. Carter

locally common

**22234 [1]** Cyperaceae *Rhynchospora harveyi* Boot var. *culixa* (Gale) Kral

det. R. Carter

occasional

**22235 [1]** Asteraceae *Hieracium gronovii* L.

det. R. Carter

occasional

**22236 [1]** Poaceae *Muhlenbergia expansa* (Poir.) Trin.

det. R. Carter

common

**22237 [1]** Poaceae *Sporobolus floridanus* Chapm.

det. R. Carter

common

**22238 [1]** Xyridaceae *Xyris ambigua* Beyr. ex Kunth

det. R. Carter

common

**22239 [1]** Xyridaceae *Xyris platylepis* Chapm.

det. R. Carter

common

**22240 [1]** Asteraceae *Helianthus floridanus* A. Gray ex Chapm.

det. R. Carter

common

**22241 [1]** Euphorbiaceae *Euphorbia discoidalis* Chapm.

det. R. Carter

occasional

**22242 [1]** Asteraceae *Cirsium virginianum* (L.) Michx.

det. R. Carter

occasional

**Richard Carter** with W. W. Baker

**31.3173N/83.71011W**

3.53 airmiles NNW (bearing 336.98°) Norman Park jct. Hwy US 319 and Norman Park-Ellenton Rd; Victor Beadle property

--sandstone outcrop surrounded by longleaf pine-wiregrass savanna

with *Pinus palustris*, *Quercus marilandica*, *Q. virginiana*, *Nyssa*, *Aristida stricta*, *Schizachyrium tenerum*, *Andropogon gerardii*

**22243 [3]** Asteraceae *Eupatorium hyssopifolium* L.

det. R. Carter

common

**22244** [1] Clusiaceae *Hypericum suffruticosum* Adams & Robson  
det. R. Carter  
occasional

**22245** [1] Poaceae *Dichanthelium strigosum* (Muhl. ex Ell.) Freckm. var. *leucoblepharis* (Trin.) Freckm.  
[*Panicum ciliatum* Elliott]  
det. R. Carter  
locally common

**22246** [1] Poaceae *Dichanthelium aciculare* (Desv. ex Poir.) Gould & C.A. Clark subsp. *aciculare*  
det. R. Carter  
common

**Richard Carter** with W. W. Baker  
**U.S.A. Georgia: Worth County**  
**31.32151N/83.72309W**  
4.14 airmiles NW (bearing 328.73°) Norman Park jct. Hwy US 319 and Norman Park-Ellenton Rd; Victor Beadle property  
--seepage slope pitcher plant bog along baycreek  
with *Sarracenia flava*, *S. minor*, *Lilium catesbaei*

**22247** [1] Cyperaceae *Rhynchospora compressa* Carey ex Chapm.  
det. R. Carter  
common

**Richard Carter** with W. W. Baker  
**U.S.A. Georgia: Colquitt County**  
**31.31728N/83.72593W**  
3.99 airmiles NW (bearing 324.50°) Norman Park jct. Hwy US 319 and Norman Park-Ellenton Rd; Victor Beadle property  
--sandstone outcrop surrounded by longleaf pine-wiregrass savanna  
with *Pinus palustris*, *Quercus marilandica*, *Q. virginiana*, *Nyssa*, *Aristida stricta*, *Schizachyrium tenerum*, *Andropogon gerardii*

**22248** [1] Scrophulariaceae *Lindernia monticola* Nutt.  
det. R. Carter  
locally common

**22249** [1] Xyridaceae *Xyris jupicai* L.C. Rich.  
det. R. Carter  
common

**22250** [1] Xyridaceae *Xyris stricta* Chapm.  
det. R. Carter  
common

**22251** [1] Xyridaceae *Xyris difformis* Chapm. var. *curtissii* (Malme) Kral  
det. R. Carter  
common

**22252** [1] Cyperaceae *Rhynchospora debilis* Gale  
det. R. Carter  
locally common

**22253** [1] Poaceae *Dichanthelium leucothrix* (Nash) Freckm.

det. R. Carter  
locally common

**22254** [1] Loganiaceae *Mitreola sessilifolia* (Gmel.) G. Don  
det. R. Carter  
common

**22255** [2] Scrophulariaceae *Gratiola pilosa* Michx.  
det. R. Carter  
occasional

**22256** [1] Polygalaceae *Polygala ramosa* Elliott  
det. R. Carter  
common

**22257** [1] Euphorbiaceae *Croton willdenowii* Webster [*Crotonopsis elliptica* Willd.]  
det. R. Carter  
common

**Appendix B. Maps of major areas surveyed.** Maps show locations and approximate boundaries of sites surveyed for the presence of *Schwalbe americana*.

- Figure 1. Alapaha River Ranch south of Willacoochee, along west side of Springhead Church Road, between Springhead Church Road and Alapaha River, Atkinson County, Georgia. Selected GPS points shown within survey area.
- Figure 2. Beverly Plantation west of Thomasville, along north side of Lower Cairo Road, Grady County, Georgia. Selected GPS points shown within survey area.
- Figure 3. Broxton Rocks Nature Preserve, southern portion including Rock House Falls, Coffee County, Georgia. Selected GPS points shown within survey area.
- Figure 4. Broxton Rocks Nature Preserve, northeastern portion including Corbett Tract, Coffee County, Georgia. Selected GPS points shown within survey area.
- Figure 5. Broxton Rocks Nature Preserve, Ricketson Tract, Coffee County, Georgia. Selected GPS points shown within survey area.
- Figure 6. Elsoma Plantation south of Thomasville, Thomas County, Georgia, selected GPS points shown in survey area.
- Figure 7. Faceville area north, along Davis Lane, Decatur County, Georgia. Selected GPS points shown within survey area.
- Figure 8. Flat Tub Wildlife Management Area, north of Hwy. GA 107, Jeff Davis County, Georgia. Selected GPS points shown within survey area.
- Figure 9. The Hill, southwest of Moultrie, north of Lower Meigs Road, west of Tree Farm Road, Colquitt County, Georgia. Selected GPS points shown within survey area.
- Figure 10. Kinderlou Plantation west of Valdosta, south of Hwy. US 84, Lowndes County, Georgia. Selected GPS points shown within survey area.
- Figure 11. Kings Bay Submarine Base, Etowah Park, Camden County, Georgia. Selected GPS points shown within survey area.
- Figure 12. Longpine Plantation south of Thomasville, Thomas County, Georgia, selected GPS points shown in survey area.
- Figure 13. Mayhaw WMA, northwest of Colquitt, north of Griggs Lucille Road, east of Springhead Road, Miller County, Georgia. Selected GPS points shown within survey area.
- Figure 14. Morrison Pines southwest of Moultrie along south side of Lower Meigs Road, Colquitt County, Georgia. Selected GPS points shown within survey area.
- Figure 15. Riverbend Plantation along Clyattville and Nankin roads, Brooks County, Georgia. Selected GPS points shown within survey area.
- Figure 16. Silver Lake Wildlife Management Area southwest of Bainbridge, Decatur County, Georgia, survey areas, including "Hog Farm."
- Figure 17. Southern Woods Plantation south of Sylvester, Worth County, Georgia, selected GPS point shown in survey area.
- Figure 18. Stanback Place, northeast of Pulaski, Bulloch County, Georgia. Selected GPS points shown within survey area.
- Figure 19. Reese Thompson Place west of Jordan Junction, Wheeler County, Georgia. Selected GPS points shown within survey area.
- Figure 20. Weatherbee Place west of Gravel Hill Road, vic. Gravel Hill Church, Dougherty County, Georgia. Selected GPS points shown within survey area.
- Figure 21. Winecup Tract along Hwy. GA 133, southwest of Sylvester, Worth County, Georgia. Selected GPS points shown within survey area.
- Figure 22. Wiregrass Plantation southwest of Sylvester, Worth County, Georgia. Selected GPS points shown within survey area.
- Figure 23. Detail of Wiregrass Plantation southwest of Sylvester, Worth County, Georgia. Selected GPS points shown within survey area.

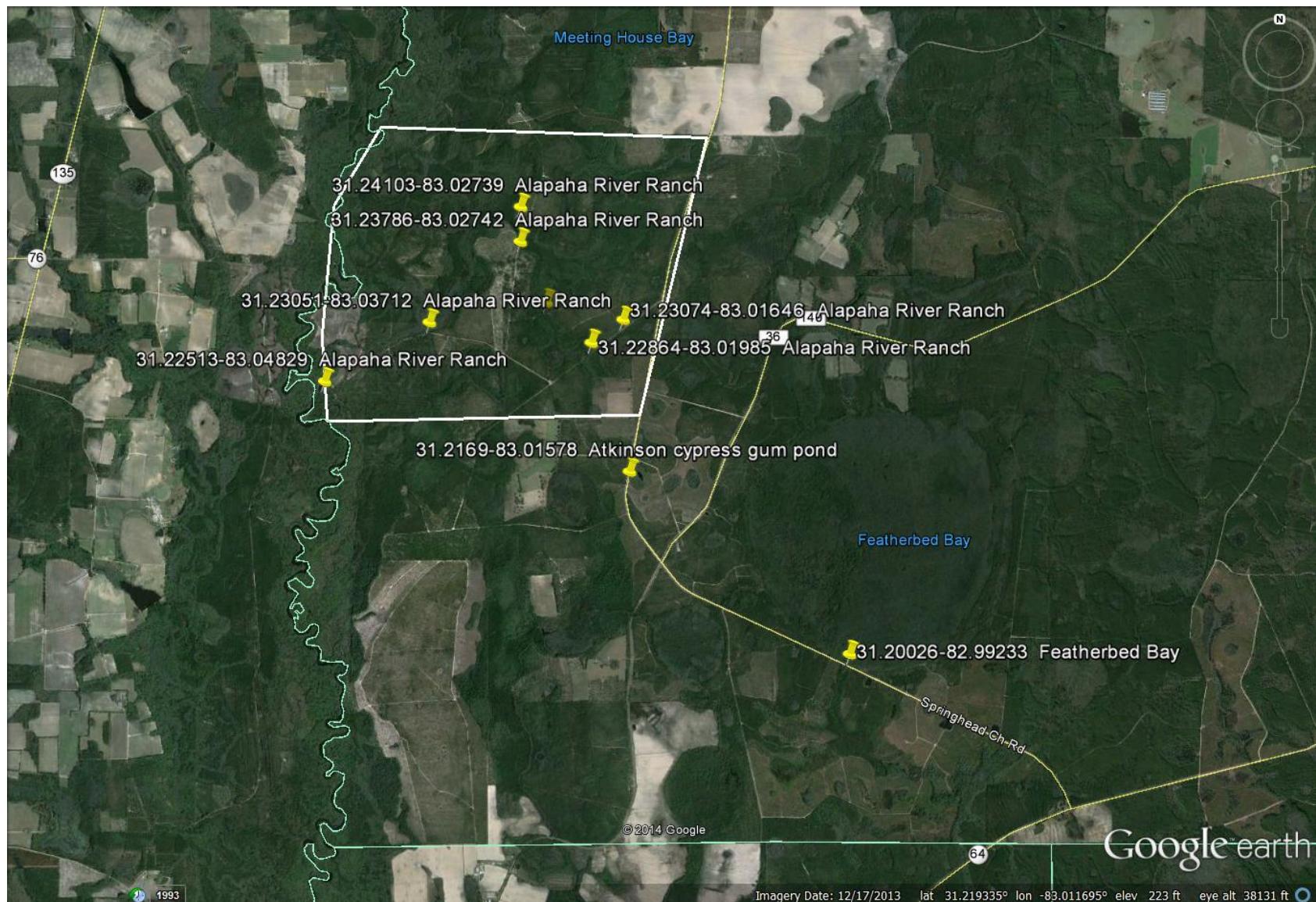


Figure 1. Alapaha River Ranch south of Willacoochee, along west side of Springhead Church Road, between Springhead Church Road and Alapaha River, Atkinson County, Georgia. Selected GPS points shown within survey area.

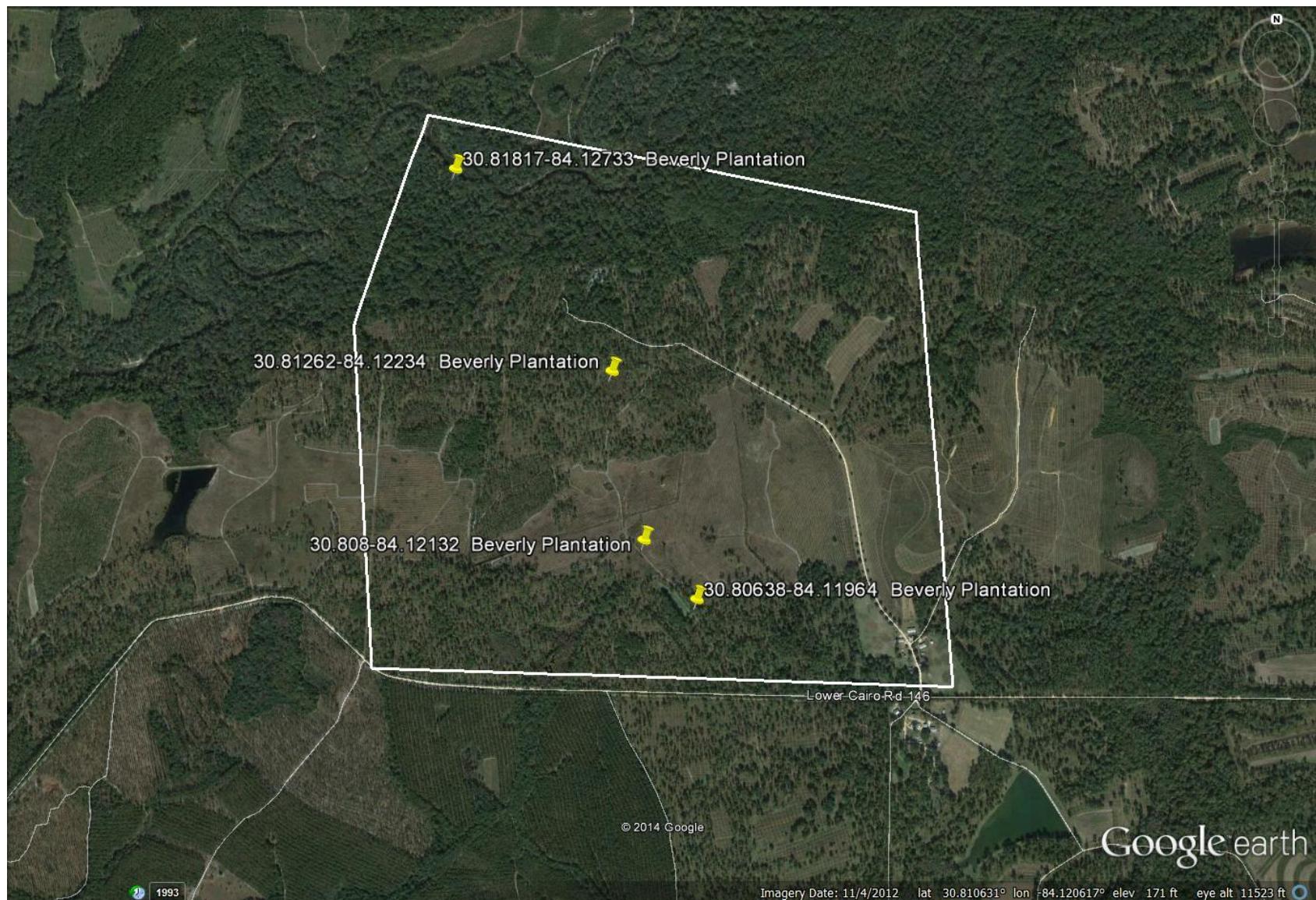


Figure 2. Beverly Plantation west of Thomasville, along north side of Lower Cairo Road, Grady County, Georgia. Selected GPS points shown within survey area.

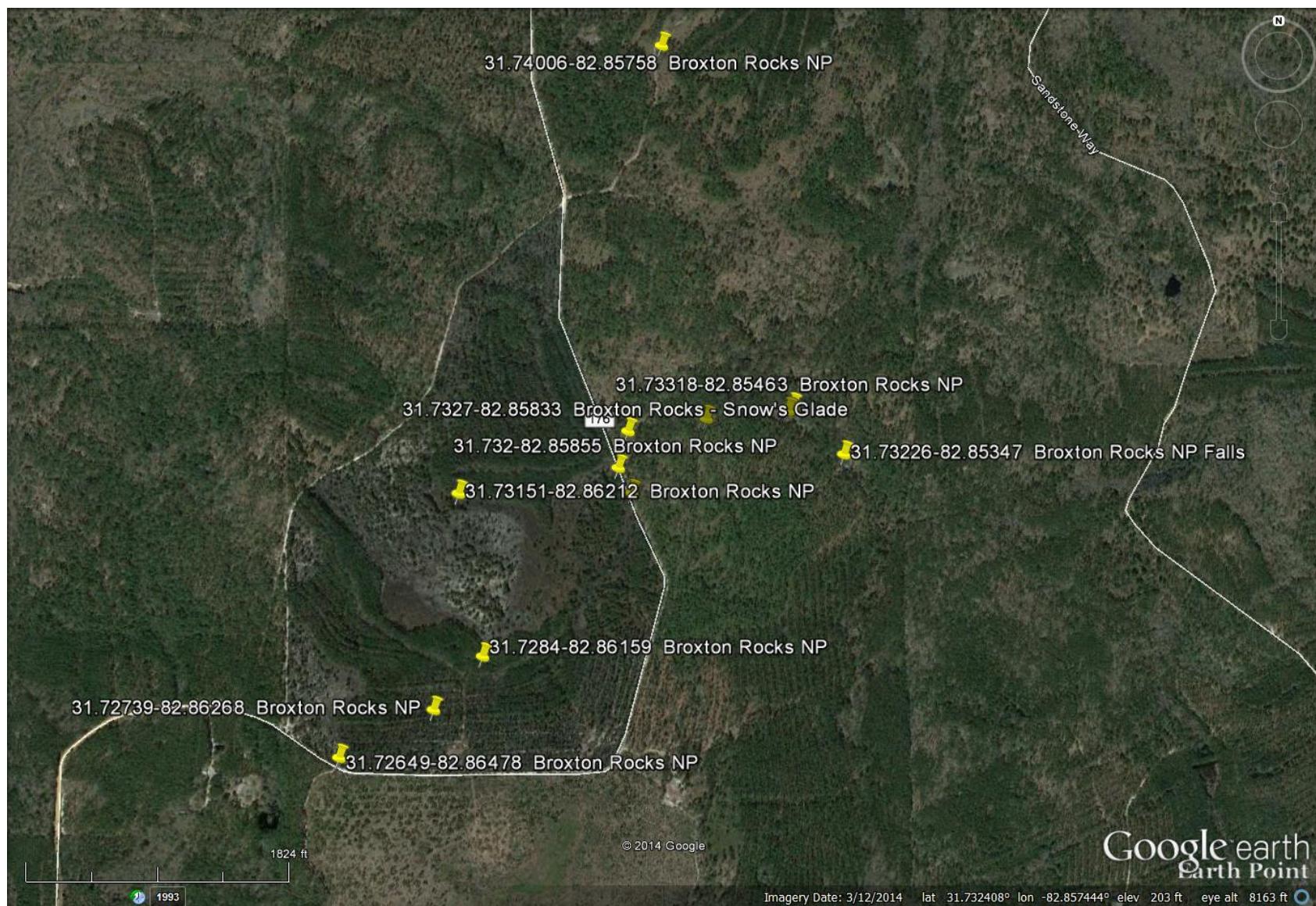


Figure 3. Broxton Rocks Nature Preserve, southern portion including Rock House Falls, Coffee County, Georgia. Selected GPS points shown within survey area.

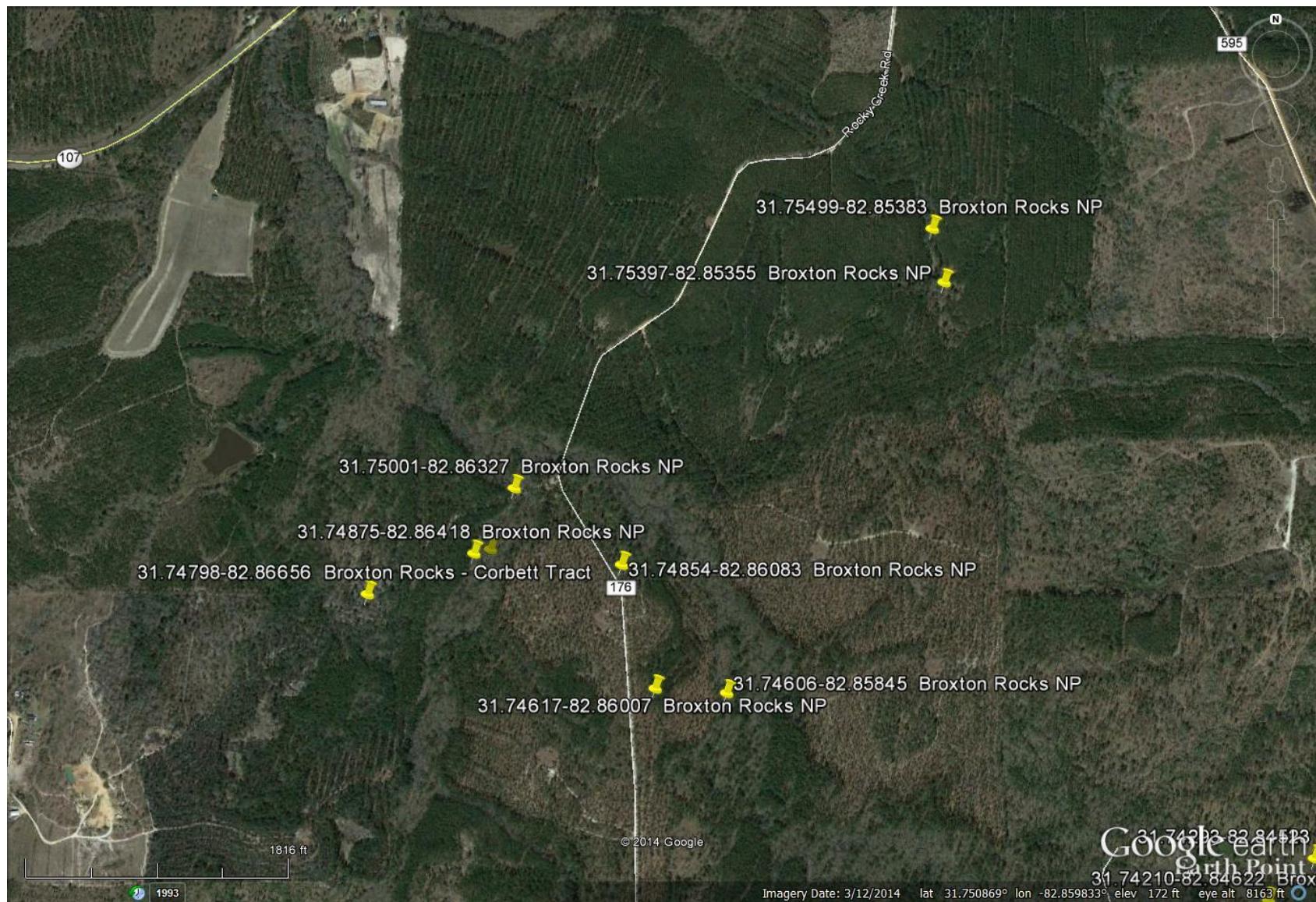


Figure 4. Broxton Rocks Nature Preserve, northeastern portion including Corbett Tract, Coffee County, Georgia. Selected GPS points shown within survey area.

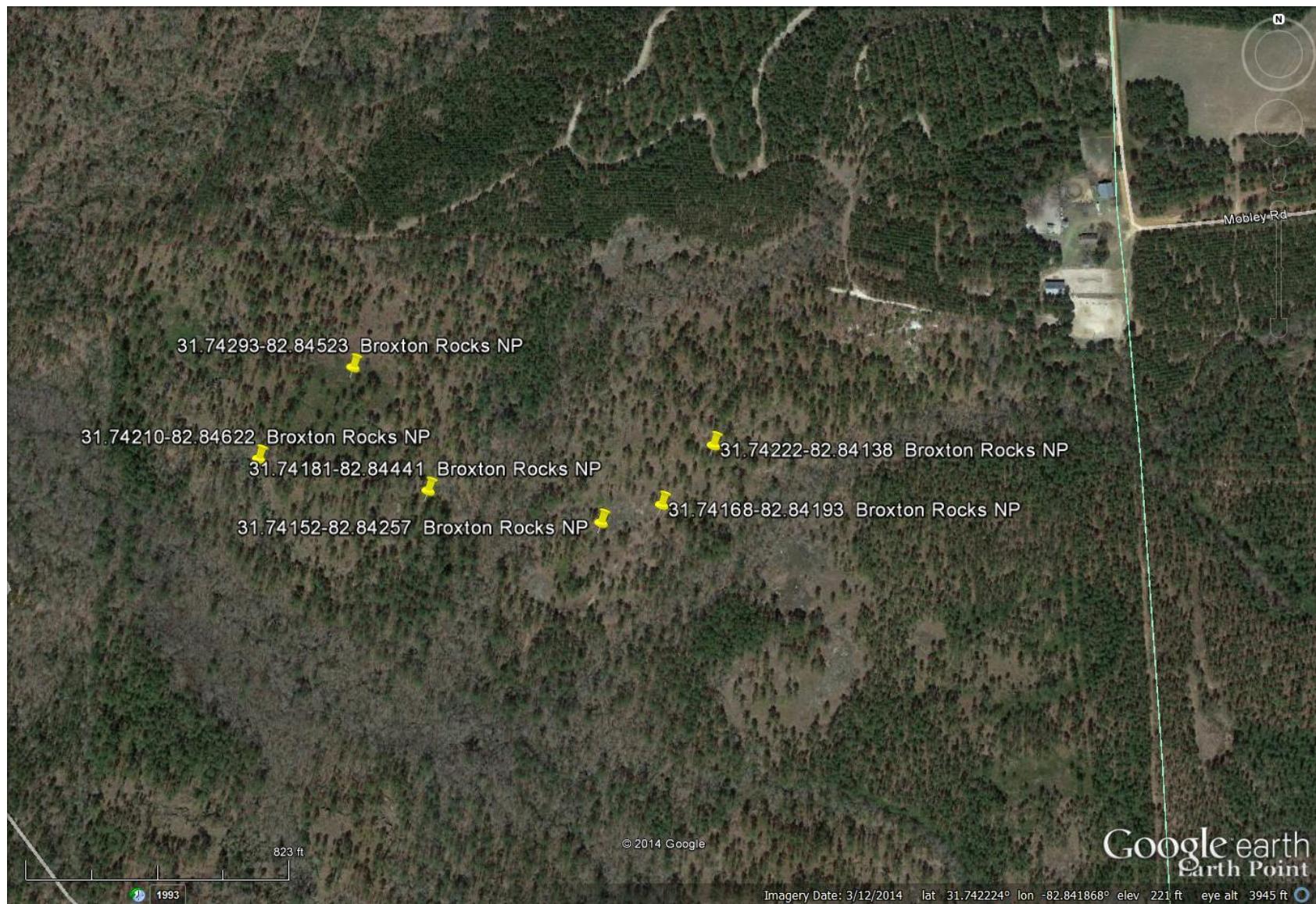


Figure 5. Broxton Rocks Nature Preserve, Ricketson Tract, Coffee County, Georgia. Selected GPS points shown within survey area.

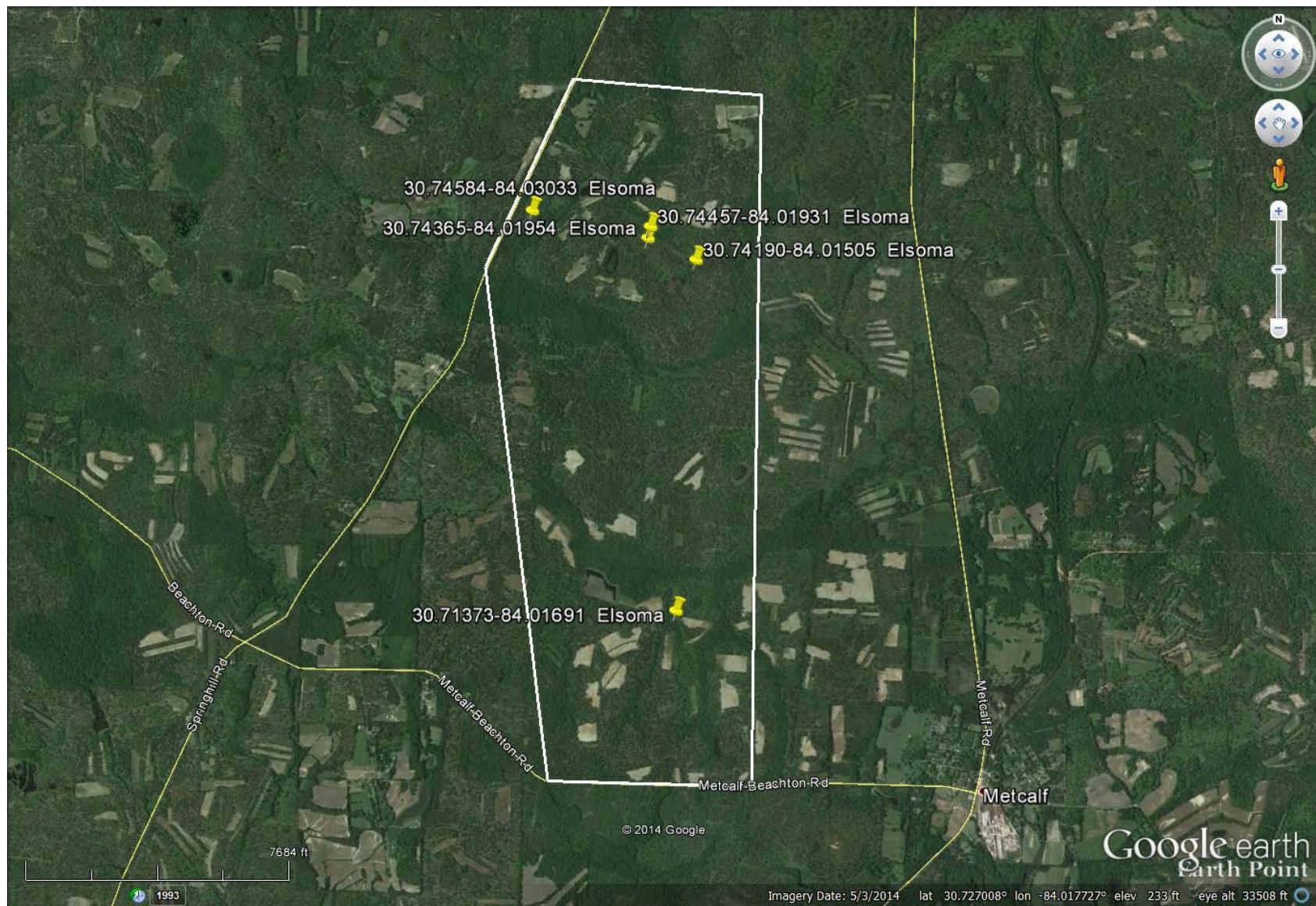


Figure 6. Elsoma Plantation south of Thomasville, Thomas County, Georgia, selected GPS points shown in survey area.

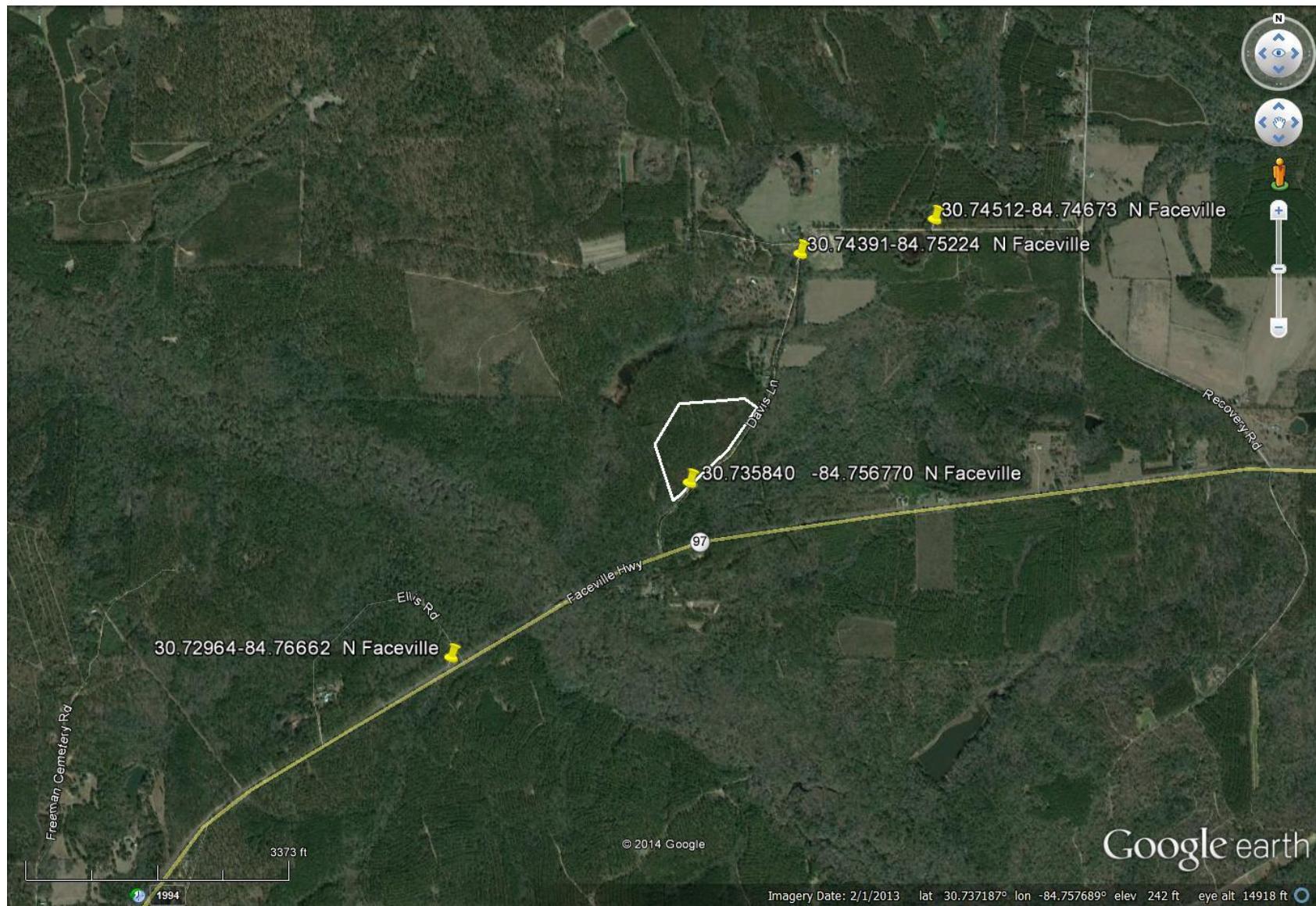


Figure 7. Faceville area north, along Davis Lane, Decatur County, Georgia. Selected GPS points shown within survey area.

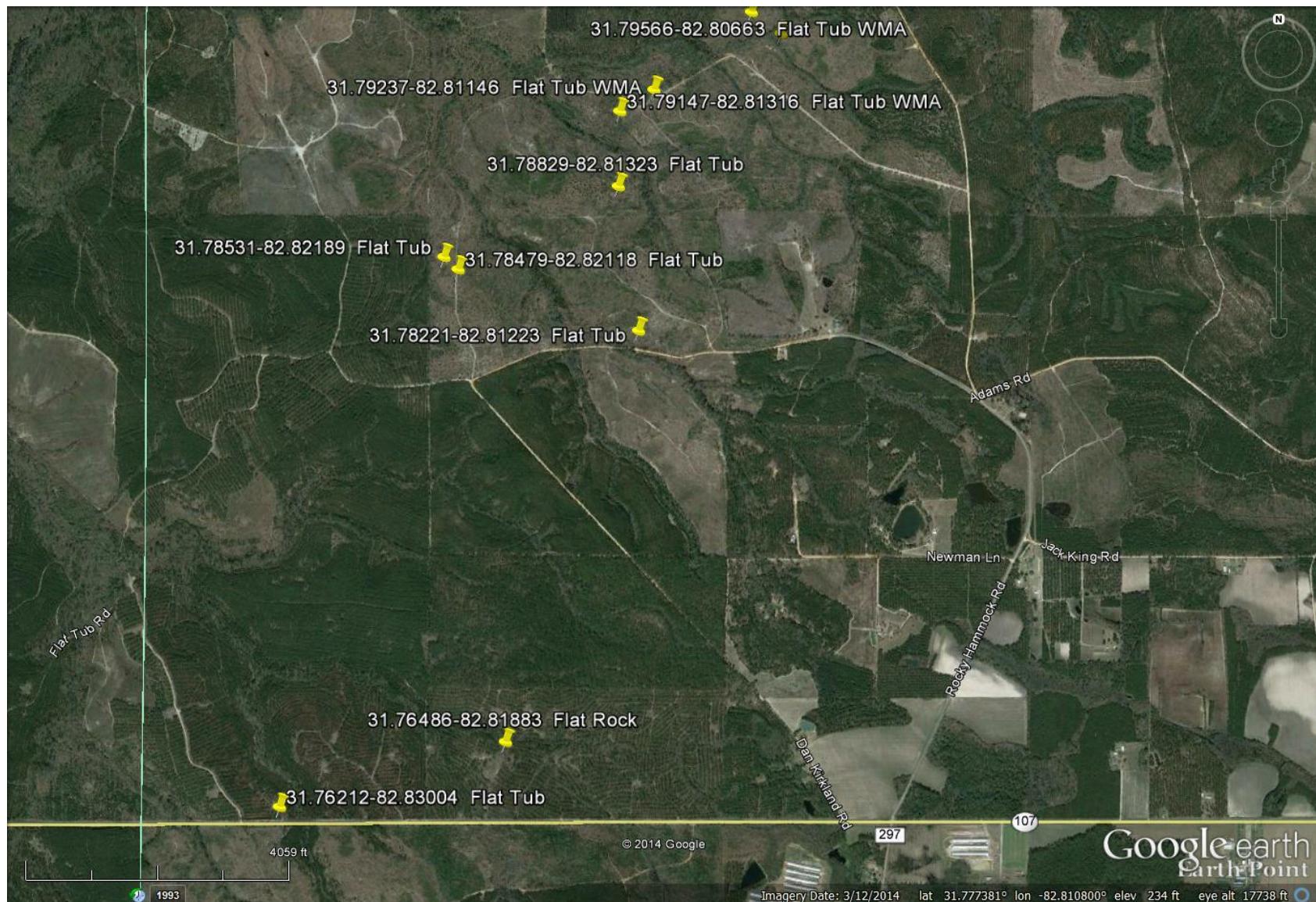


Figure 8. Flat Tub Wildlife Management Area, north of Hwy. GA 107, Jeff Davis County, Georgia. Selected GPS points shown within survey area.

Fig



Figure 9. The Hill, southwest of Moultrie, north of Lower Meigs Road, west of Tree Farm Road, Colquitt County, Georgia. Selected GPS points shown within survey area.

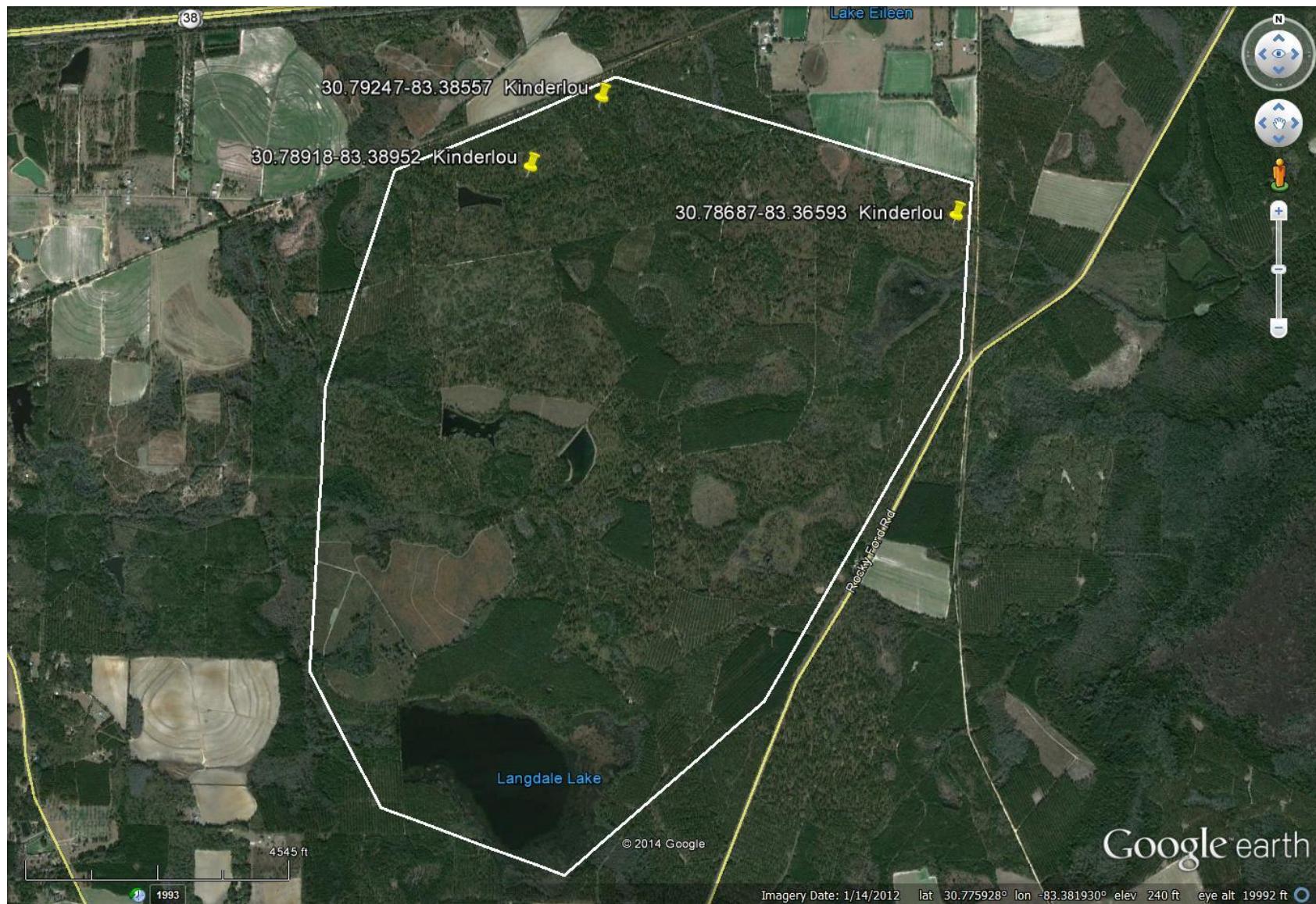


Figure 10. Kinderlou Plantation west of Valdosta, south of Hwy. US 84, Lowndes County, Georgia. Selected GPS points shown within survey area.



Figure 11. Kings Bay Submarine Base, Etowah Park, Camden County, Georgia. Selected GPS points shown within survey area.

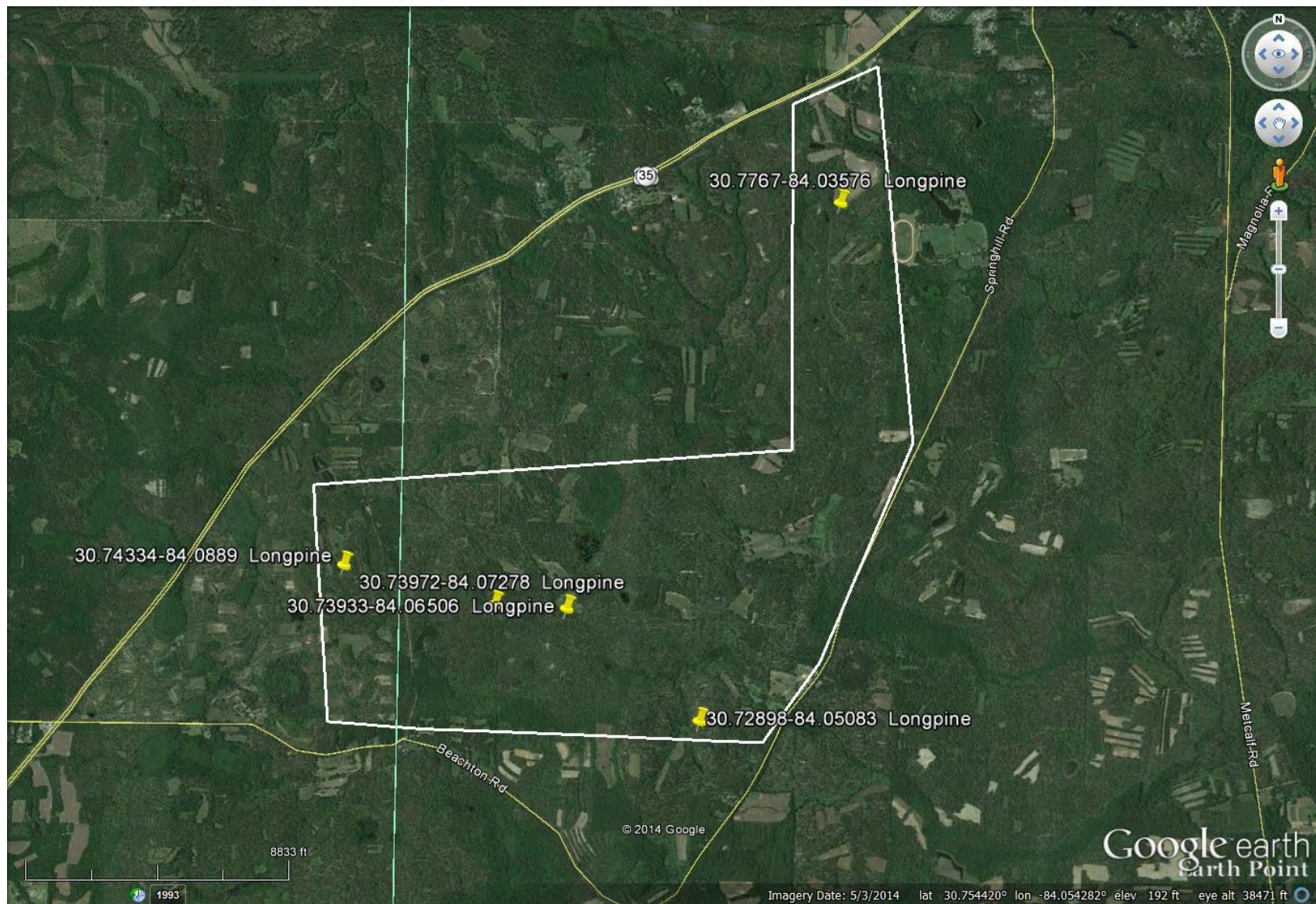


Figure 12. Longpine Plantation south of Thomasville, Thomas County, Georgia, selected GPS points shown in survey area.

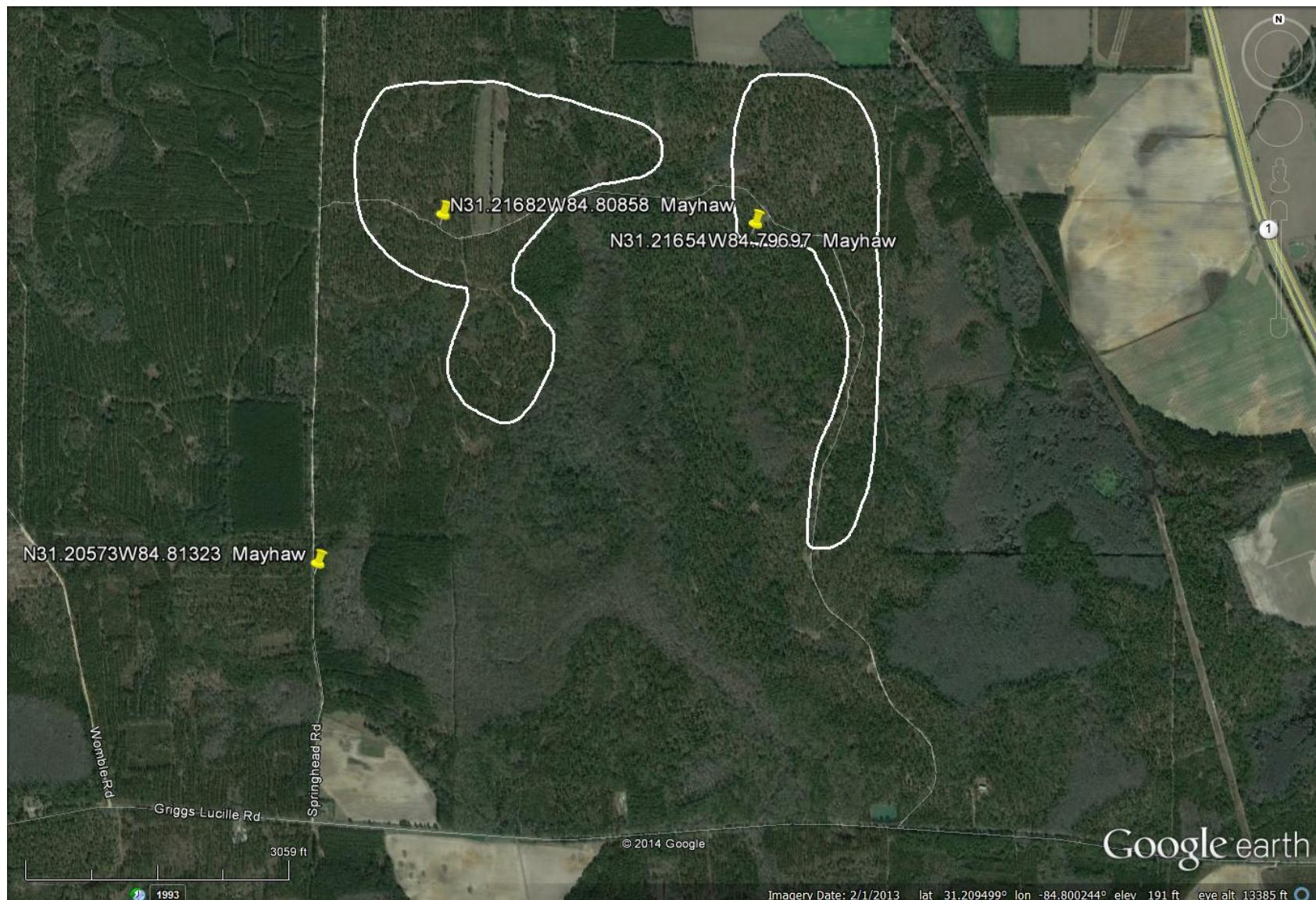


Figure 13. Mayhaw WMA, northwest of Colquitt, north of Griggs Lucille Road, east of Springhead Road, Miller County, Georgia. Selected GPS points shown within survey area.



Figure 14. Morrison Pines southwest of Moultrie along south side of Lower Meigs Road, Colquitt County, Georgia. Selected GPS points shown within survey area.



Figure 15. Riverbend Plantation along Clyattville and Nankin roads, Brooks County, Georgia. Selected GPS points shown within survey area.

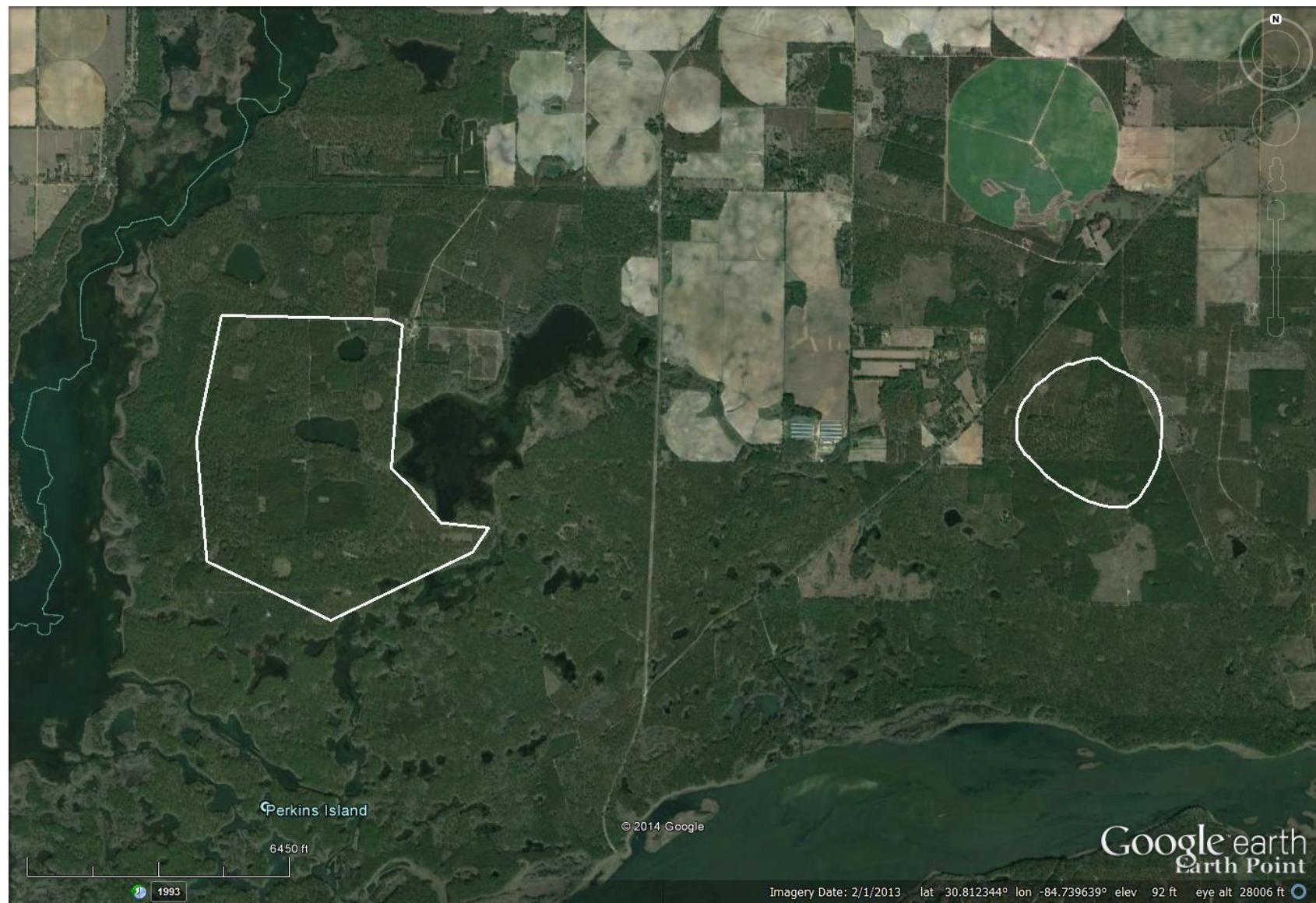


Figure 16. Silver Lake Wildlife Management Area southwest of Bainbridge, Decatur County, Georgia, survey areas, including "Hog Farm."

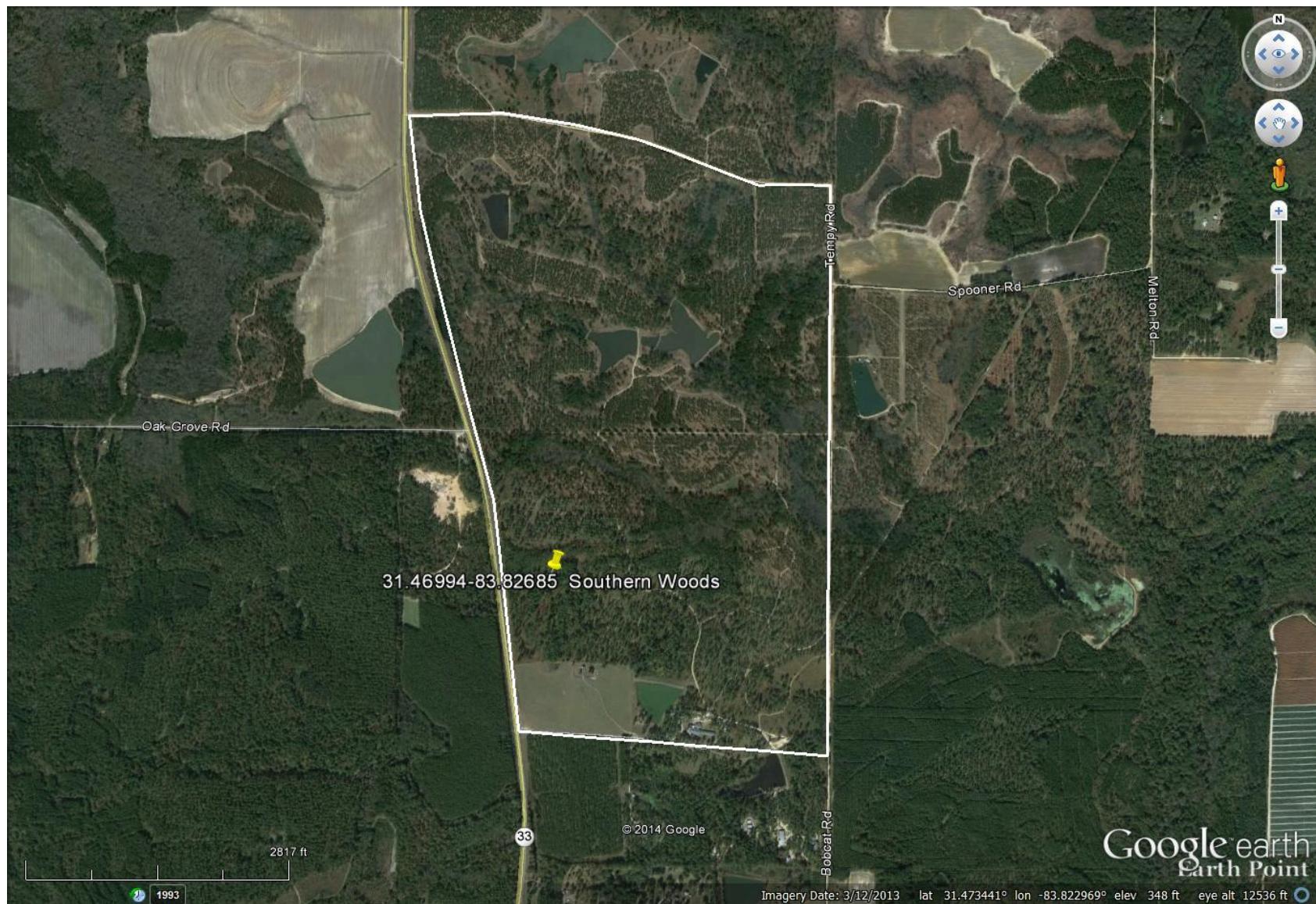


Figure 17. Southern Woods Plantation south of Sylvester, Worth County, Georgia, selected GPS point shown in survey area.

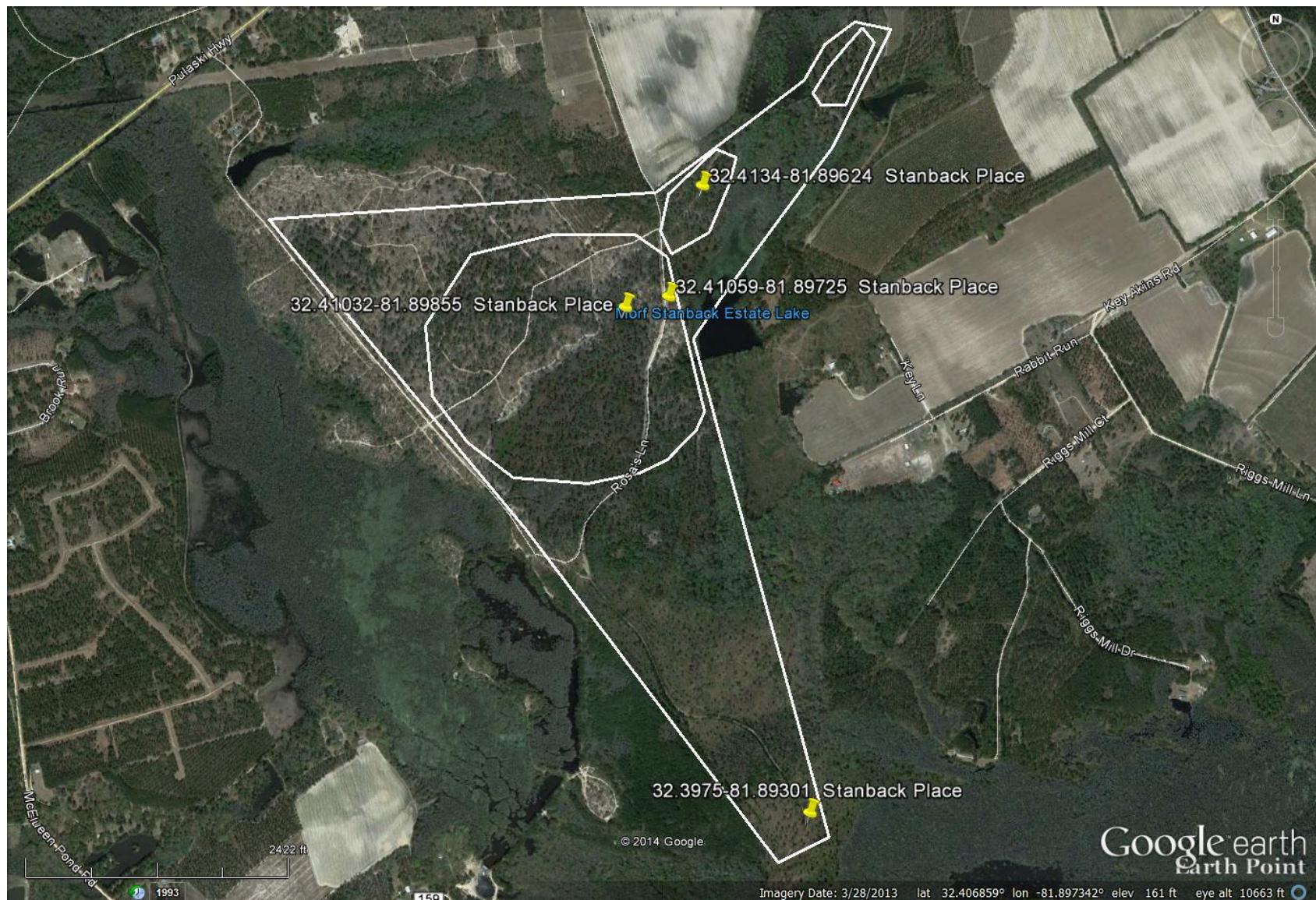


Figure 18. Stanback Place, northeast of Pulaski, Bulloch County, Georgia. Selected GPS points shown within survey area.

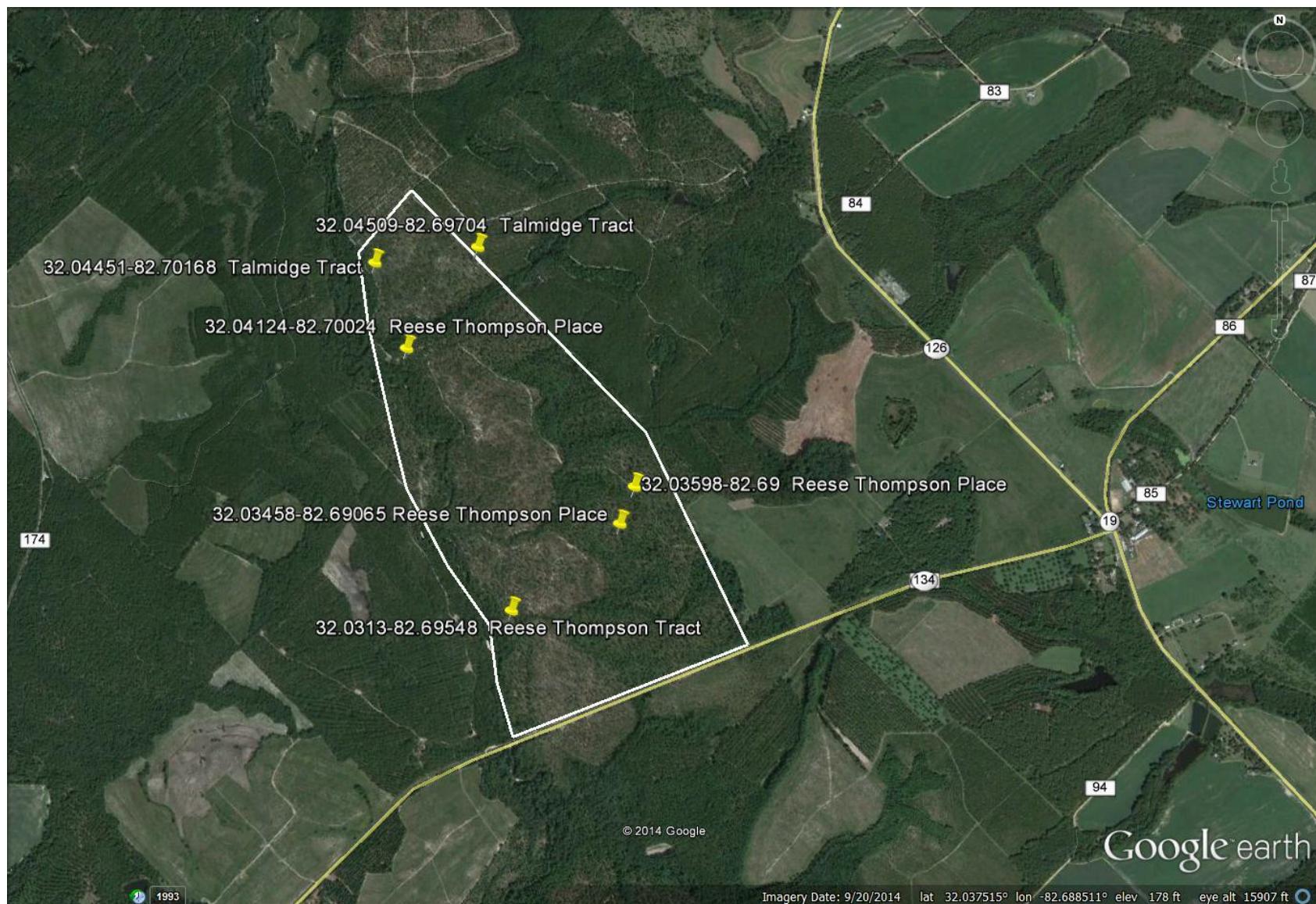


Figure 19. Reese Thompson Place west of Jordan Junction, Wheeler County, Georgia. Selected GPS points shown within survey area.

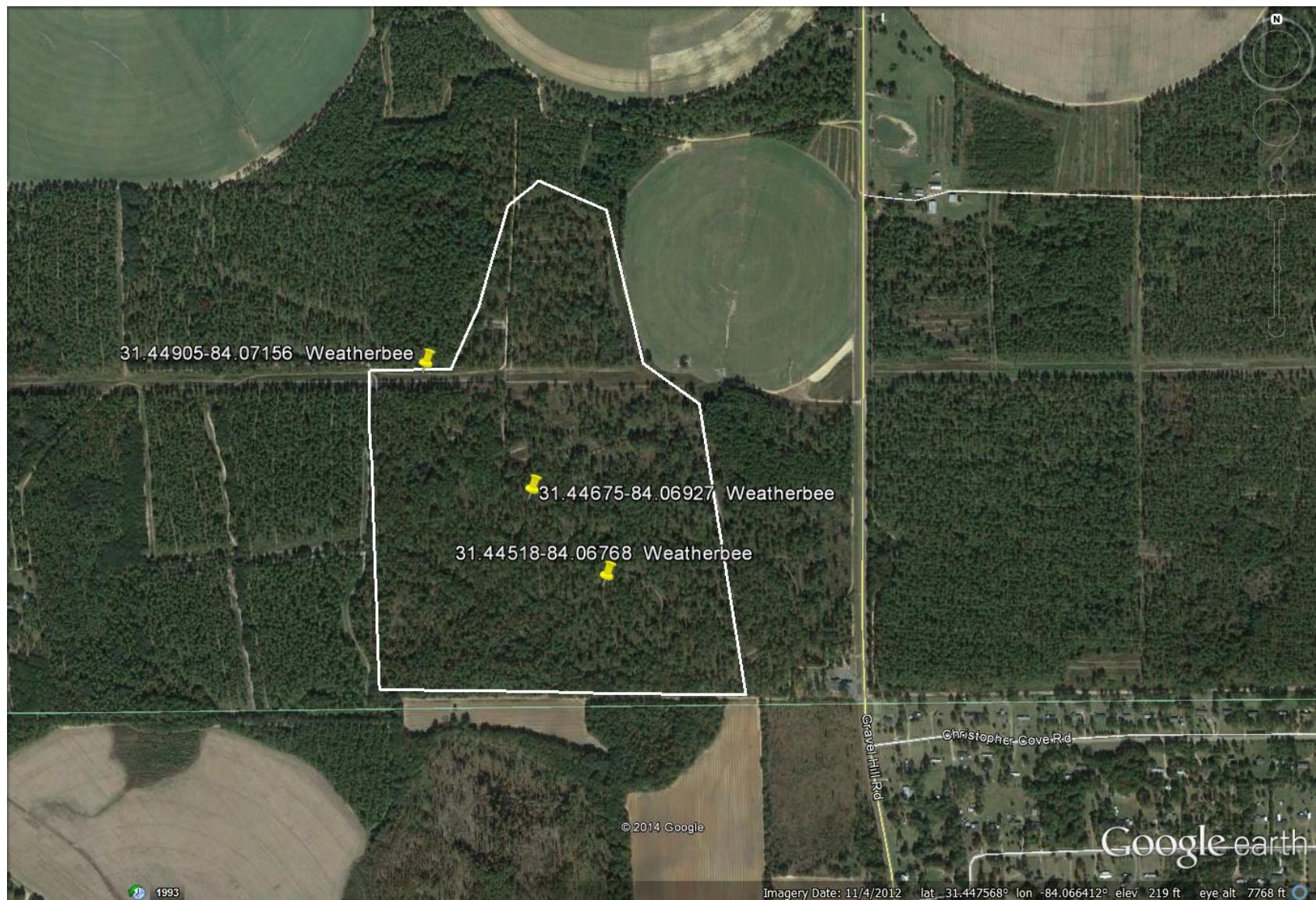


Figure 20. Weatherbee Place west of Gravel Hill Road, vic. Gravel Hill Church, Dougherty County, Georgia. Selected GPS points shown within survey area.

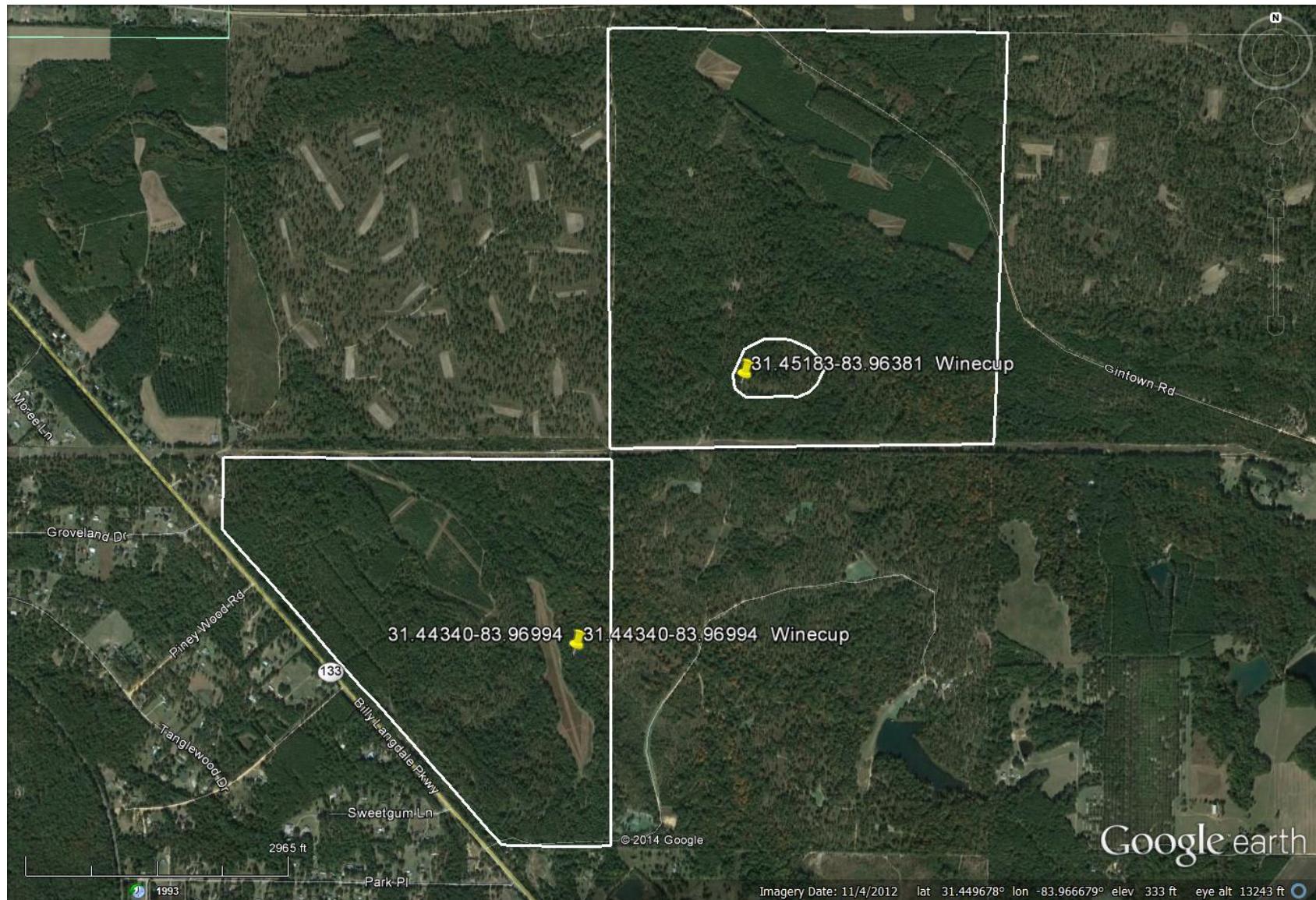


Figure 21. Winecup Tract along Hwy. GA 133, southwest of Sylvester, Worth County, Georgia. Selected GPS points shown within survey area.

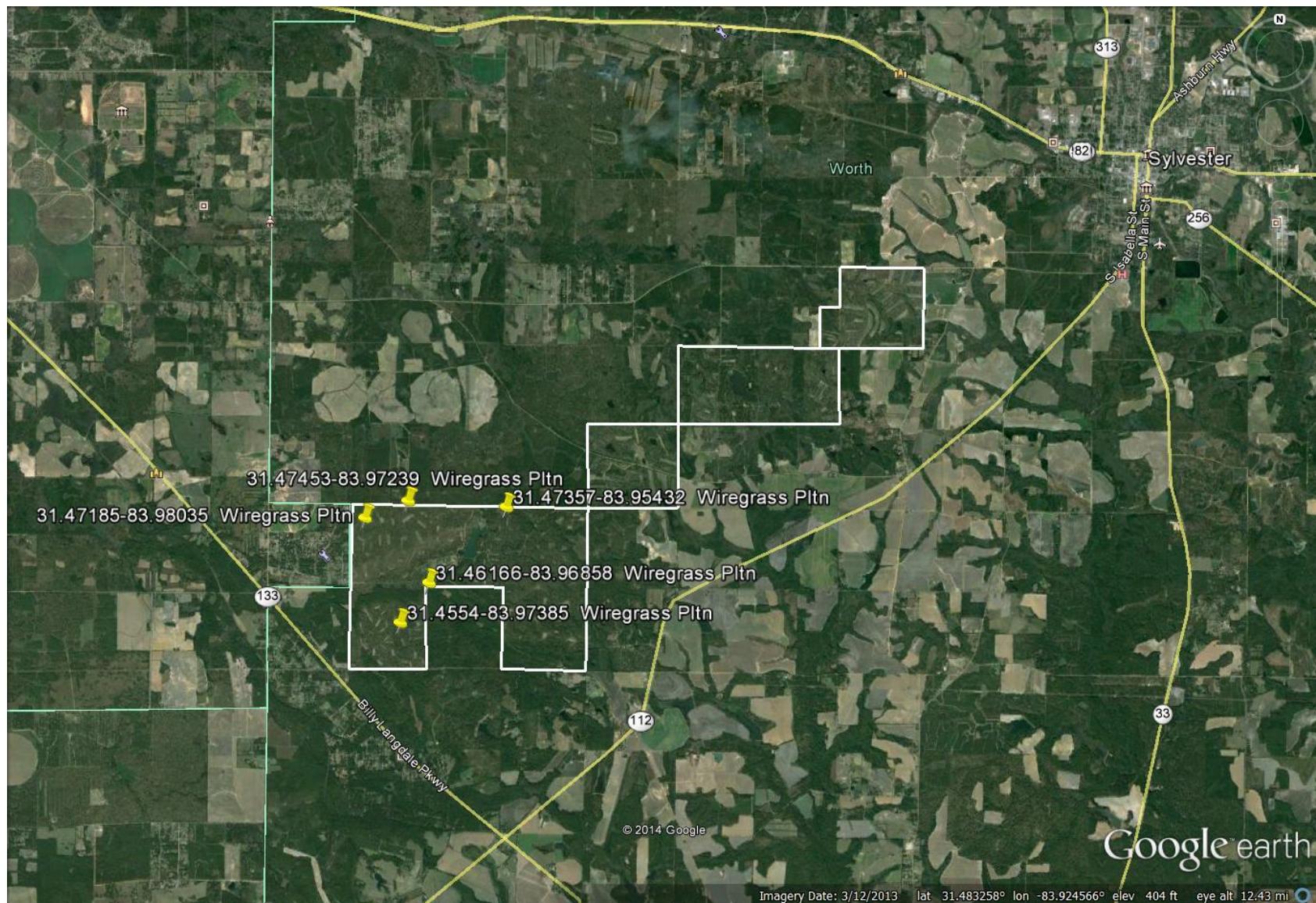


Figure 22. Wiregrass Plantation southwest of Sylvester, Worth County, Georgia. Selected GPS points shown within survey area.

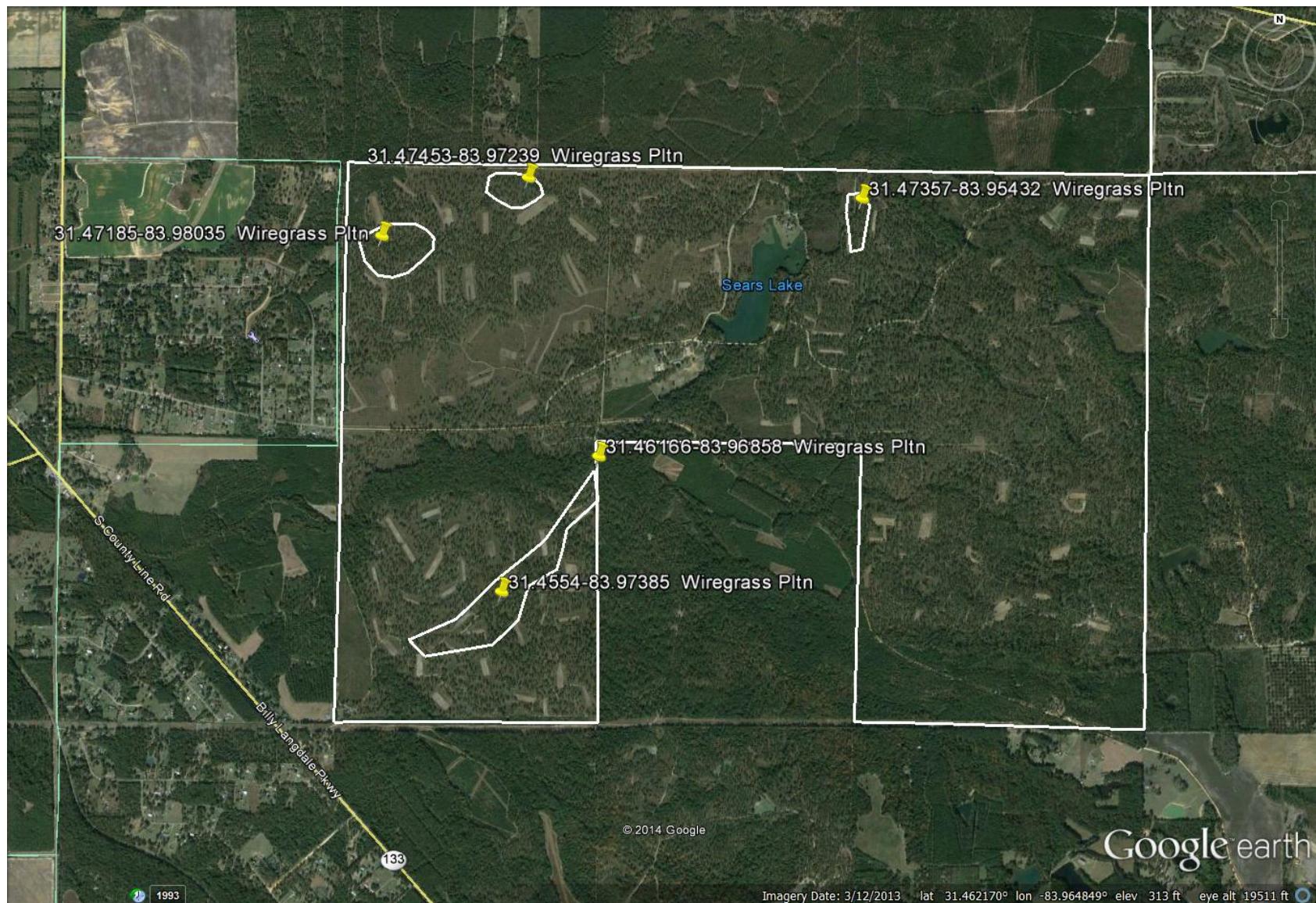


Figure 23. Detail of Wiregrass Plantation southwest of Sylvester, Worth County, Georgia. Selected GPS points shown within survey area.