

**Vegetation Monitoring at Lafayette Creek
Northwest Florida Water Management District
Mitigation Site**

Fall 2025

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Lafayette Creek – Phase I Mitigation Site
Qualitative and Quantitative Monitoring
October 2025

INTRODUCTION

The Lafayette Creek Phase I Mitigation Site consisting of 509 acres was obtained to compensate for the loss of wetland function from the impacts associated with re-alignment of highway US 331 in Freeport. The site is located north of SR 20 and Lafayette Creek (Figure 1). Access to the site is via Hollington Road, which is located 4.5 miles east of US 331. The gate to the site is at the north end of Hollington Road. The Phase I Mitigation Project aims to restore Sandhill (SA) to areas formerly planted with sand pine plantation and Hydric Savanna (HS) to areas formerly covered by wetland shrubs (

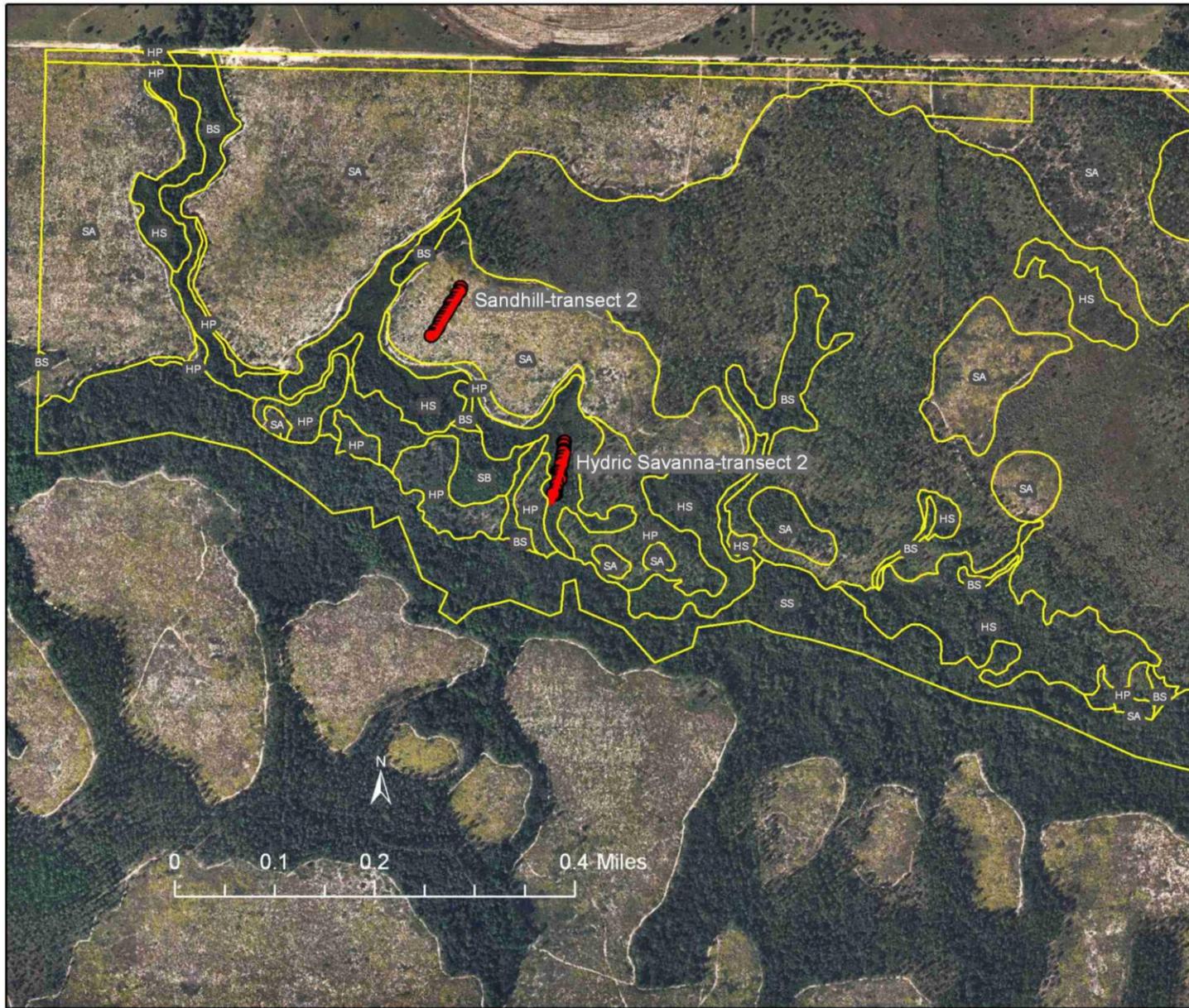


Figure 2). FNAI conducted quantitative and qualitative monitoring to document the current plant species composition and vegetation structure of these targeted communities. FNAI also implemented qualitative monitoring to document areas of slash pine plantation being restored to High Pine (HP) as well as the intact Bay Swamp (BS) and Stream Swamp (SS). FNAI biologists previously monitored the site vegetation every fall from 2012 to 2024.

METHODS

We conducted the quantitative monitoring along 300-foot long permanent transect lines previously marked during the 2012 survey. Two transects were located in Sandhill and two in Hydric Savanna (

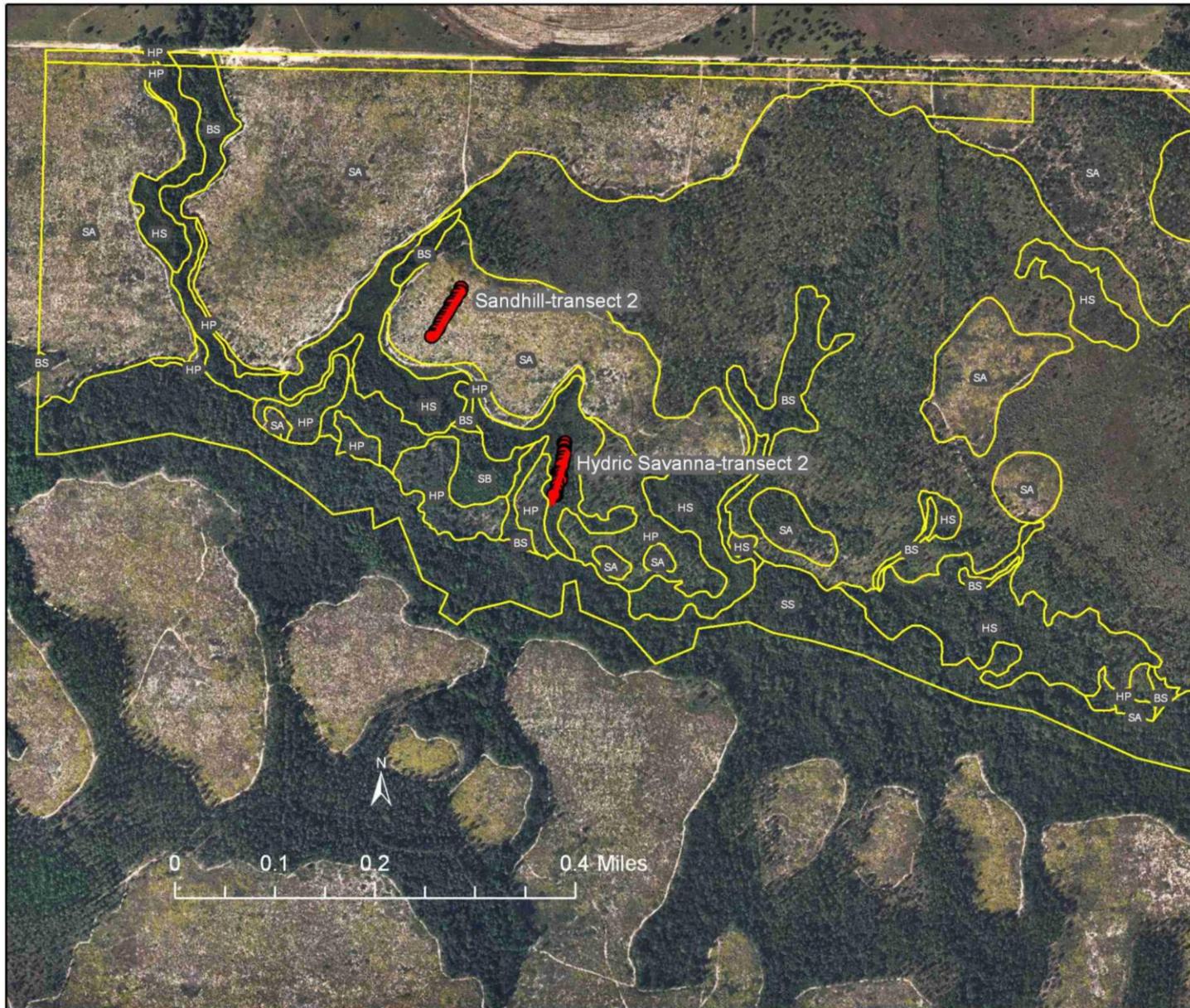


Figure 2). In 2013, metal T-posts were installed at the ends of each transect to provide permanent reference points. In 2014, the northern metal T-post in hydric savanna Transect 2 was missing. Its position was re-established and the metal T-post was replaced. In 2015 the northern metal T-post in sandhill Transect 2 was missing. Its location was reestablished using the bearing from the remaining T-post and permanently staked in 2016. As additional markers, FNAI installed one-foot sections of rebar with 3-inch-square orange caps at ground level at quadrats 20 and 40 along this transect, so the transect line could be recovered if the end stakes were lost in the future. We placed fifteen 1m x 1m quadrats

spaced at 20-foot intervals along the left side of each transect line, beginning at 0 and ending at 280 feet.

In each quadrat, we visually estimated the percent cover of each plant species, including individuals rooted in the the quadrat as well as overhanging. Canopy over 2 m in height was excluded from cover estimates. Only the lower 2 m portions of larger individuals were counted as cover, including the lower portions of tree trunks rooted in quadrats. We converted plant cover estimates to mid-point values and averaged them across each transect. We also calculated relative cover (in which all plant cover and open ground is given as a proportion of the total plant cover); this is reported in separate pie charts.

In addition to cover by species, cover was also estimated as a whole number for all plants, all herbs, and all shrubs. Relative covers for each plant species were calculated as a portion of the total plant cover.

For each quad, the height of shrubs was recorded in centimeters. The observer used a measuring pole marked in decimeters and estimated the average height over the quad. Woody vines and tree species were omitted from this measurement.

We conducted qualitative monitoring by walking meandering transects through the two target communities plus High Pine (HP), Bay Swamp (BS), and Stream Swamp (SS) and recording all species as well as vegetation structure. FNAI botanists Kim Alexander and Jenna Annis conducted the field surveys on October 13-14, 2025.

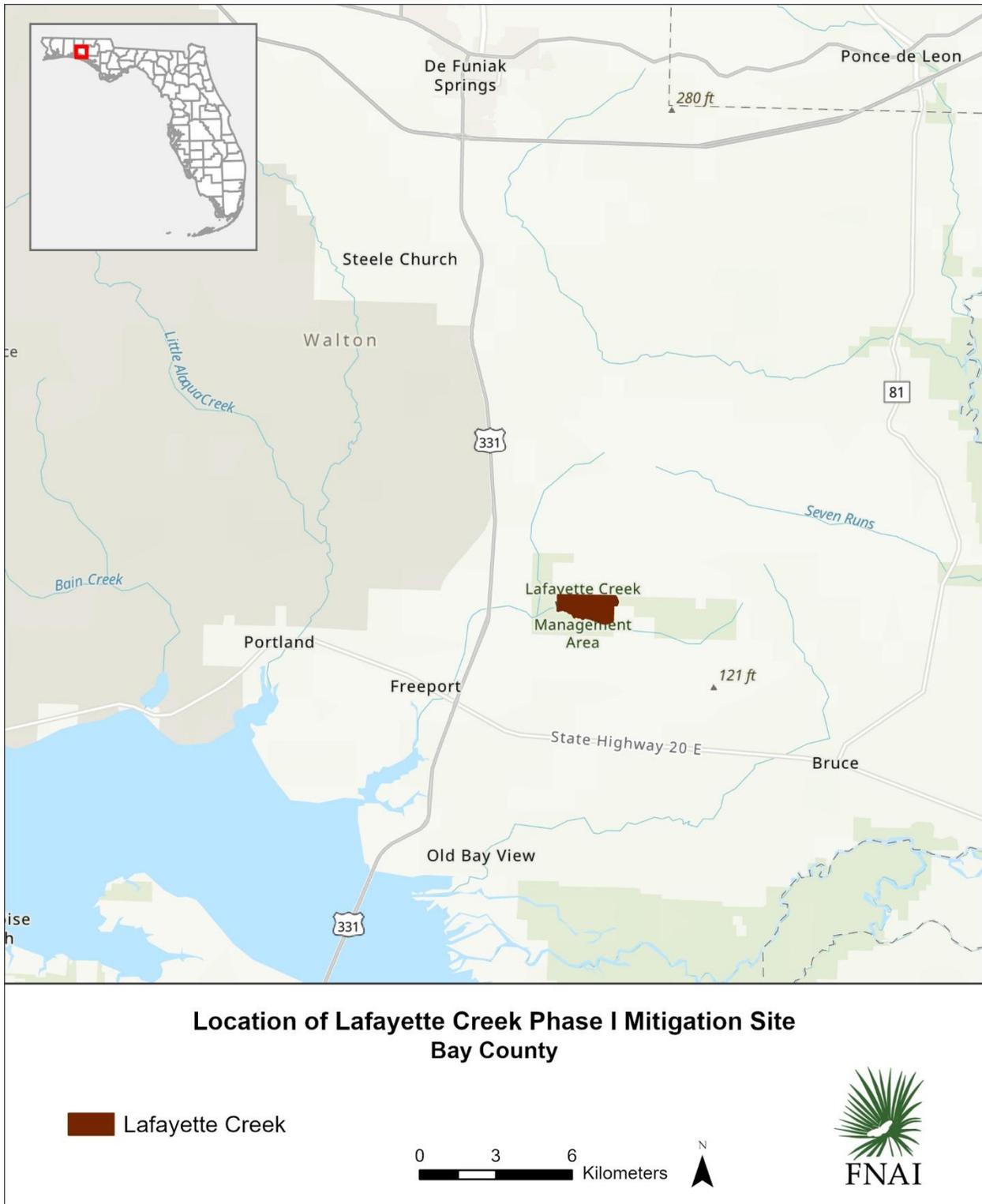


Figure 1. Location map of Lafayette Creek Phase I Mitigation Site monitored by FNAI.

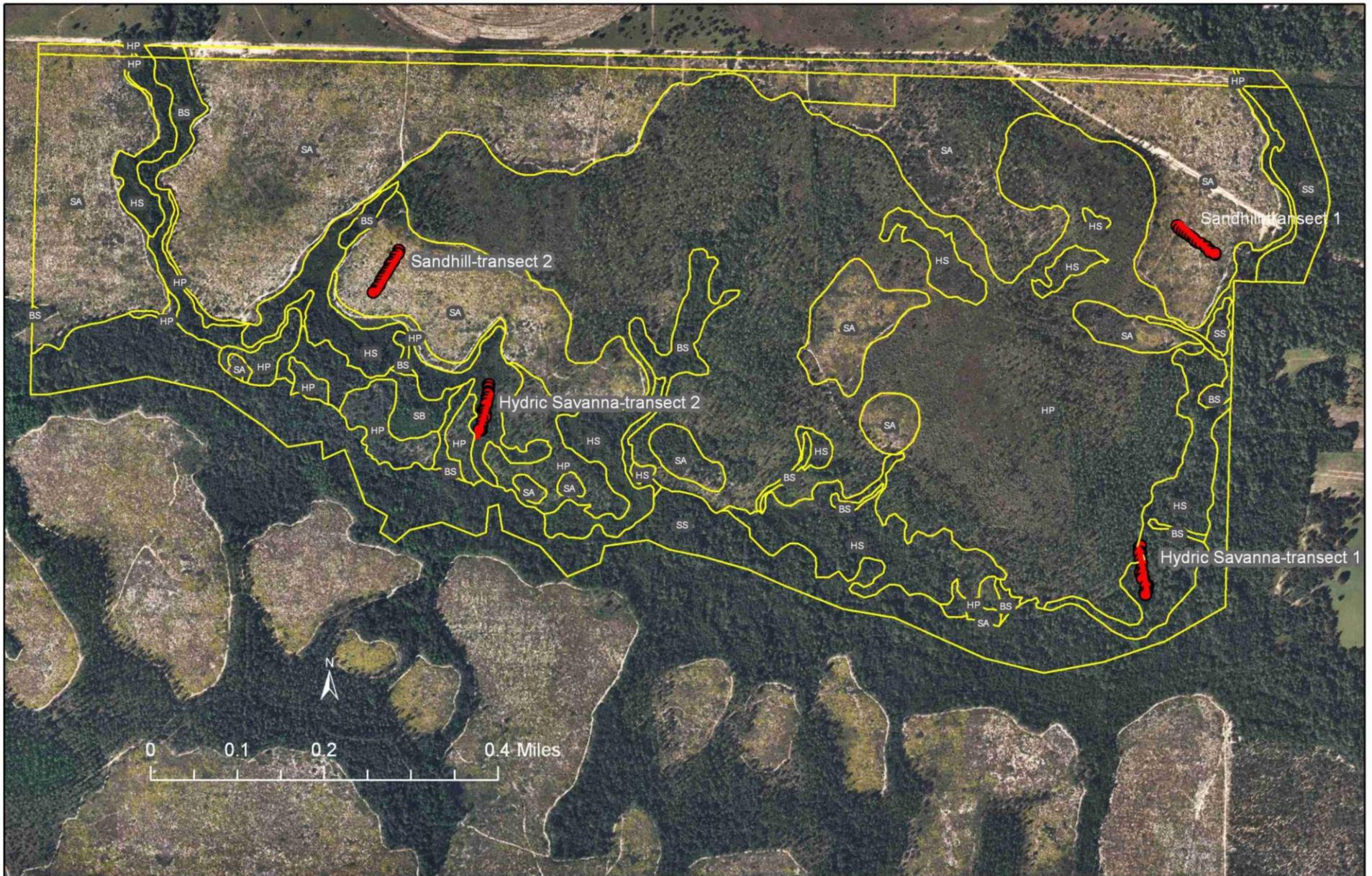


Figure 2. Location of permanent transects at Lafayette Creek – Phase I Mitigation Site. SA=Sandhill, HS=Hydric Savanna, HP=High Pine, BS=Bay Swamp, SS=Stream Swamp, SB=Shrub Bog.

RESULTS AND DISCUSSION

We recorded 313 plant taxa in the surveyed areas of Lafayette Creek and found 7 new species to the site during the 2025 monitoring period (Table 1). Taxonomy follows Weakley, A.S., and Southeastern Flora Team. 2023. Flora of the southeastern United States: Florida. University of North Carolina Herbarium, North Carolina Botanical Garden, Chapel Hill, U.S.A.

Table 1. Species observed in target communities at Lafayette Creek – Phase I Mitigation Site, October 13-14, 2025. (bold name = new species; bold X = new observation in community; * = state-listed endangered or threatened; † = non-native invasive)

Scientific Name	Common Name	Bay Swamp	High Pine	Hydric Savanna	Sandhill	Stream Swamp	Grand Total
<i>Acer rubrum</i>	red maple	X				X	2
<i>Agalinis divaricata</i>	pineland false foxglove		X				1
<i>Agalinis fasciculata</i>	beach false foxglove	X	X				2
<i>Agalinis purpurea</i>	purple false foxglove				X		1
<i>Aletris lutea</i>	yellow colic-root		X	X			2
<i>Alnus serrulata</i>	hazel alder	X				X	2
<i>Amsonia ciliata</i>	fringed bluestar				X		1
<i>Anchistea virginica</i>	Virginia chain fern			X		X	2
* <i>Andropogon arctatus</i>	pinewoods bluestem			X			1
<i>Andropogon capillipes</i>	dryland white bluestem	X	X		X		3
<i>Andropogon cretaceus</i>	purple bluestem		X	X			2
<i>Andropogon gerardi</i>	big bluestem		X				1
<i>Andropogon glomeratus</i>	bushy bluestem			X			1
<i>Andropogon gyrans</i>	Elliott's bluestem		X		X		2
<i>Andropogon ternarius</i>	splitbeard bluestem				X		1
<i>Andropogon virginicus</i>	broomsedge bluestem	X	X	X	X		4
<i>Anthenantia villosa</i>	green silkyscale		X				1
<i>Aristida beyrichiana</i>	Southern wiregrass		X	X	X		3
<i>Aristida purpurascens</i>	arrowfeather threeawn		X		X		2
<i>Aristida spiciformis</i> var. <i>spiciformis</i>	bottlebrush threeawn		X				1
<i>Arnoglossum sulcatum</i>	Georgia Indian-plantain	X					1
<i>Aronia arbutifolia</i>	red chokeberry		X			X	2
<i>Arundinaria tecta</i>	small cane	X		X			2
<i>Asclepias obovata</i>	pineland milkweed		X				1
<i>Asclepias</i> sp.	milkweed		X				1
<i>Asimina parviflora</i>	smallflower pawpaw				X		1
<i>Balduina angustifolia</i>	coastalplain honeycomb-head		X		X		2
<i>Balduina uniflora</i>	oneflower honeycomb-head		X				1
<i>Baptisia lanceolata</i>	gopherweed				X		1
<i>Berlandiera pumila</i> var. <i>pumila</i>	soft greeneyes				X		1
<i>Bidens laevis</i>	smooth beggarticks	X					1
<i>Bidens mitis</i>	smallfruit beggarticks	X		X		X	3

Scientific Name	Common Name	Bay Swamp	High Pine	Hydric Savanna	Sandhill	Stream Swamp	Grand Total
<i>Bigelovia nudata</i>	pineland rayless goldenrod		X				1
<i>Bignonia capreolata</i>	crossvine					X	1
<i>Bulbostylis ciliatifolia</i>	capillary hairsedge				X		1
<i>Burmannia capitata</i>	Southern bluethead	X		X			2
<i>Callicarpa americana</i>	American beautyberry	X	X	X	X		4
<i>Carex glaucescens</i>	clustered sedge	X				X	2
<i>Carex</i> sp.	sedge					X	1
<i>Carphephorus pseudoliatris</i>	bristleleaf chaffhead		X				1
<i>Cartrema americanum</i>	wild olive				X		1
<i>Centella erecta</i>	spadeleaf	X	X	X			3
<i>Cephalanthus occidentalis</i>	common buttonbush					X	1
<i>Chamaecrista nictitans</i>	sensitive pea		X				1
<i>Chaptalia tomentosa</i>	pineland daisy		X				1
<i>Chasmanthium laxum</i>	slender woodoats					X	1
<i>Chrysoma pauciflosculosa</i>	woody goldenrod		X		X		2
<i>Chrysopsis hyssopifolia</i>	hyssopleaf goldenaster				X		1
<i>Chrysopsis lanuginosa</i>	Lynn Haven goldenaster		X	X	X		3
<i>Chrysopsis linearifolia</i>	narrowleaf goldenaster				X		1
<i>Chrysopsis mariana</i>	Maryland goldenaster		X				1
<i>Cladonia leporina</i>	cup lichen				X		1
<i>Clematis reticulata</i>	netleaf leather flower		X				1
<i>Clethra alnifolia</i>	sweet pepperbush		X				1
<i>Clethra tomentosa</i>	downy sweet pepperbush	X		X		X	3
<i>Cliftonia monophylla</i>	black titi	X	X	X		X	4
<i>Clinopodium coccineum</i>	scarlet calamint				X		1
<i>Cnidocolus stimulosus</i>	tread softly				X		1
<i>Coleataenia longifolia</i> ssp. <i>longifolia</i>	long-leaved panicum			X		X	2
<i>Croptilon divaricatum</i>	slender scratchdaisy				X		1
<i>Crotalaria rotundifolia</i>	rabbitbells				X		1
<i>Croton argyranthemus</i>	silver croton		X		X		2
<i>Ctenium aromaticum</i>	toothache grass	X	X	X			3
<i>Cyrilla parvifolia</i>	littleleaf titi		X				1
<i>Cyrilla racemiflora</i>	titi			X		X	2
<i>Dalea pinnata</i>	summer farewell				X		1
<i>Desmodium lineatum</i>	sand tick-trefoil		X				1
<i>Dichantherium aciculare</i>	needleleaf witchgrass				X		1
<i>Dichantherium acuminatum</i>	tapered witchgrass				X		1
<i>Dichantherium ensifolium</i>	small-leaved witchgrass	X		X	X		3
<i>Dichantherium filiramum</i>	hairy needle-leaved witchgrass				X		1
<i>Dichantherium leucothrix</i>	rough witchgrass			X			1
<i>Dichantherium malacon</i>	dehiscent witchgrass				X		1
<i>Dichantherium ovale</i> var. <i>ovale</i>	oval-flowered witchgrass				X		1
<i>Dichantherium portoricense</i>	Puerto Rican witchgrass				X		1

Scientific Name	Common Name	Bay Swamp	High Pine	Hydric Savanna	Sandhill	Stream Swamp	Grand Total
<i>Dichantheium scabriusculum</i>	woolly witchgrass	X		X		X	3
<i>Dichantheium</i> sp.	witchgrass		X				1
<i>Dichantheium sphagnicola</i>	peaty witchgrass					X	1
<i>Dichantheium strigosum</i>	roughhair witchgrass		X	X	X		3
<i>Digitaria filiformis</i> var. <i>filiformis</i>	slender crabgrass		X		X		2
<i>Diodia virginiana</i>	Virginia buttonweed		X	X	X		3
<i>Diospyros virginiana</i>	common persimmon		X		X		2
<i>Drosera capillaris</i>	pink sundew	X		X			2
<i>Drosera tracyi</i>	dewthreads			X			1
<i>Edrastrima uniflora</i>	oldenlandia			X			1
<i>Elephantopus carolinianus</i>	Carolina elephantsfoot					X	1
<i>Elephantopus elatus</i>	tall elephantsfoot		X		X		2
<i>Eragrostis elliotii</i>	Elliott's lovegrass		X		X		2
<i>Eragrostis</i> sp.	lovegrass	X			X		2
<i>Erianthus giganteus</i>	sugarcane plumegrass	X					1
<i>Erigeron canadensis</i>	Canadian horseweed				X		1
<i>Erigeron vernus</i>	early whitetop fleabane		X	X			2
<i>Eriocaulon compressum</i>	flattened pipewort			X			1
<i>Eriocaulon decangulare</i>	tenangle pipewort	X	X	X		X	4
<i>Eriogonum tomentosum</i>	dogtongue wild buckwheat				X		1
<i>Eryngium yuccifolium</i>	button rattlesnakemaster		X				1
<i>Eupatorium anomalum</i>	anomalous thoroughwort		X	23?			2
<i>Eupatorium capillifolium</i>	dogfennel				X		1
<i>Eupatorium compositifolium</i>	yankeeweed		X	X	X		3
<i>Eupatorium mohrii</i>	Mohr's thoroughwort				X		1
<i>Eupatorium pilosum</i>	rough boneset	X		X			2
<i>Eupatorium rotundifolium</i>	roundleaf thoroughwort		X	X	X		3
<i>Eupatorium semiserratum</i>	smallflower thoroughwort		X		?		2
<i>Euphorbia discoidalis</i>	summer spurge		X		X		2
<i>Euphorbia floridana</i>	greater Florida spurge				X		1
<i>Eurybia eryngiifolia</i>	thistleleaf aster		X	X			2
<i>Euthamia caroliniana</i>	slender flattop goldenrod		X	X	X		3
<i>Fimbristylis puberula</i>	hairy fimbry		X				1
<i>Froelichia floridana</i>	cottonweed				X		1
<i>Fuirena breviseta</i>	saltmarsh umbrellasedge	X					1
<i>Fuirena pumila</i>	dwarf umbrellasedge			X			1
<i>Galactia minor</i>	leafy milkpea				X		1
<i>Gamochoaeta pennsylvanica</i>	Pennsylvania everlasting		X				1
<i>Gaylussacia dumosa</i>	dwarf huckleberry		X	X	X		3
<i>Gaylussacia mosieri</i>	woolly huckleberry	X	X	X		X	4
<i>Gaylussacia tomentosa</i>	blue huckleberry					X	1
<i>Gelsemium sempervirens</i>	yellow jessamine		X			X	2
<i>Geobalanus oblongifolius</i>	gopher apple		X		X		2

Scientific Name	Common Name	Bay Swamp	High Pine	Hydric Savanna	Sandhill	Stream Swamp	Grand Total
<i>Gymnopogon brevifolius</i>	shortleaf skeletongrass		X	X			2
<i>Hamamelis virginiana</i>	American witchhazel	X					1
<i>Helianthus angustifolius</i>	narrowleaf sunflower	X	X	X	X		4
<i>Helianthus heterophyllus</i>	variableleaf sunflower		X				1
<i>Helianthus radula</i>	stiff sunflower		X		X		2
<i>Hexasepalum teres</i>	poor joe		X		X		2
<i>Hibiscus aculeatus</i>	comfortroot		X	X	X		3
<i>Houstonia procumbens</i>	roundleaf bluet				X		1
<i>Hypericum brachyphyllum</i>	coastalplain St. John's wort			X			1
<i>Hypericum cistifolium</i>	roundpod St. John's wort	X		X			2
<i>Hypericum crux-andreae</i>	St. Peter's wort	X	X	X		X	4
<i>Hypericum fasciculatum</i>	peelbark St. John's wort	X		X		X	3
<i>Hypericum gentianoides</i>	orangegrass		X		X		2
<i>Hypericum hypericoides</i>	St. Andrew's cross				X	X	2
<i>Ilex cassine</i>	dahoon			X		X	2
<i>Ilex coriacea</i>	large gallberry	X	X	X		X	4
<i>Ilex glabra</i>	gallberry		X	X	X		3
<i>Ilex vomitoria</i>	yaupon	X	X	X	X		4
† <i>Imperata cylindrica</i>	cogon grass	X	X		X		3
<i>Itea virginica</i>	Virginia willow	X				X	2
<i>Juncus scirpoides</i>	needlepod rush	X					1
<i>Juncus trigonocarpus</i>	redpod rush	X		X			2
<i>Kelochloa verrucosa</i>	warty panicgrass	X	X	X			3
<i>Lachnanthes caroliniana</i>	Carolina redroot		X	X			2
<i>Lachnocaulon anceps</i>	whitehead bogbutton		X				1
<i>Lachnocaulon beyrichianum</i>	Southern bogbutton				X		1
<i>Lachnocaulon</i> sp.	bogbutton			X			1
<i>Lechea sessiliflora</i>	pineland pinweed				X		1
<i>Lespedeza cuneata</i>	Chinese lespedeza				X		1
<i>Lespedeza hirta</i> var. <i>curtissii</i>	hairy lespedeza				X		1
<i>Lespedeza</i> sp.	lespedeza		X				1
<i>Leucothoe axillaris</i>	coastal doghobble					X	1
<i>Liatris elegans</i>	pinkscale gayfeather		X		X		2
<i>Liatris gracilis</i>	slender gayfeather		X		X		2
<i>Liatris resinosa</i>	dense gayfeather		X	X			2
<i>Liatris secunda</i>	Piedmont gayfeather				X		1
<i>Liatris tenuifolia</i>	shortleaf gayfeather		X		X		2
<i>Linum</i> sp.	flax		X				1
<i>Liriodendron tulipifera</i> var. <i>tulipifera</i>	tuliptree	X		X			2
<i>Lobelia brevifolia</i>	shortleaf lobelia		X	X			2
<i>Lobelia georgiana</i>	Southern lobelia					X	1
<i>Lobelia glandulosa</i>	glade lobelia	X		X			2
<i>Lobelia nuttallii</i>	Nuttall's lobelia		X				1

Scientific Name	Common Name	Bay Swamp	High Pine	Hydric Savanna	Sandhill	Stream Swamp	Grand Total
<i>Lophiola aurea</i>	golden crest			X			1
<i>Lorinseria areolata</i>	netted chain fern	X				X	2
<i>Ludwigia linifolia</i>	Southeastern primrosewillow			X			1
<i>Ludwigia maritima</i>	seaside primrosewillow	X					1
† <i>Ludwigia peruviana</i>	Peruvian primrosewillow	X					1
<i>Ludwigia pilosa</i>	hairy primrosewillow	X					1
<i>Ludwigia virgata</i>	savannah primrosewillow		X				1
<i>Lycopodiella alopecuroides</i>	foxtail club-moss	X	X	X			3
<i>Lycopodiella appressa</i>	Southern club-moss	X		X			2
<i>Lycopus rubellus</i>	taperleaf waterhorehound	X		X			2
† <i>Lygodium japonicum</i>	Japanese climbing fern		X			X	2
<i>Lyonia lucida</i>	fetterbush	X	X			X	3
<i>Magnolia grandiflora</i>	Southern magnolia		X				1
<i>Magnolia virginiana</i> var. <i>australis</i>	sweetbay	X	X	X		X	4
<i>Mayaca fluviatilis</i>	stream bogmoss	X					1
<i>Mimosa microphylla</i>	sensitive briar				X		1
<i>Mitchella repens</i>	partridgeberry					X	1
<i>Mitreola sessilifolia</i>	swamp hornpod		X				1
<i>Morella caroliniensis</i>	evergreen bayberry	X	X	X		X	4
<i>Morella cerifera</i>	Southern bayberry	X			X	X	3
<i>Morella inodora</i>	odorless bayberry	X					1
<i>Morella pumila</i>	dwarf bayberry		X				1
<i>Muscadinia rotundifolia</i>	muscadine	X	X	X	X	X	5
<i>Nyssa biflora</i>	swamp tupelo	X		X		X	3
<i>Osmunda spectabilis</i>	royal fern	X		X		X	3
<i>Osmundastrum cinnamomeum</i>	cinnamon fern	X	X	X		X	4
<i>Oxydendrum arboreum</i>	sourwood					X	1
<i>Panicum virgatum</i>	switchgrass		X		X		2
<i>Paspalum floridanum</i>	Florida paspalum		X				1
<i>Paspalum setaceum</i>	thin paspalum		X		X		2
<i>Pelazoneuron kunthii</i>	Southern shield fern					X	1
<i>Peltandra sagittifolia</i>	spoon-flower	X		X		X	3
<i>Pinus clausa</i>	sand pine				X		1
<i>Pinus elliotii</i>	slash pine	X	X	X	X	X	5
<i>Pinus palustris</i>	longleaf pine		X		X		2
<i>Pinus serotina</i>	pond pine	X	X	X			3
<i>Pinus taeda</i>	loblolly pine					X	1
<i>Pityopsis aspera</i> var. <i>adenolepis</i>	pineland silkgrass		X		X		2
<i>Pityopsis graminifolia</i>	narrowleaf silkgrass		X		X		2
<i>Pluchea baccharis</i>	rosy camphorweed			X			1
<i>Pluchea foetida</i>	stinking camphorweed					X	1
<i>Polygala lutea</i>	orange milkwort			X			1
<i>Polygala nana</i>	candyroot				X		1

Scientific Name	Common Name	Bay Swamp	High Pine	Hydric Savanna	Sandhill	Stream Swamp	Grand Total
<i>Polygonella gracilis</i>	tall jointweed		X		X		2
<i>Polypremum procumbens</i>	rustweed	X					1
<i>Pseudolycopodiella caroliniana</i>	slender club-moss			X			1
<i>Pteridium pseudocaudatum</i>	tailed bracken		X	X	X	X	4
<i>Pterocaulon pycnostachyum</i>	blackroot		X	X	X		3
<i>Quercus elliotii</i>	runner oak		X		X		2
<i>Quercus falcata</i>	Southern red oak				X		1
<i>Quercus geminata</i>	sand live oak		X		X		2
<i>Quercus hemisphaerica</i>	laurel oak		X		X		2
<i>Quercus incana</i>	bluejack oak				X		1
<i>Quercus laevis</i>	turkey oak				X		1
<i>Quercus laurifolia</i>	swamp laurel oak					X	1
<i>Quercus margaretiae</i>	sand post oak				X		1
<i>Quercus minima</i>	dwarf live oak				X		1
<i>Quercus myrtifolia</i>	myrtle oak				X		1
<i>Quercus nigra</i>	water oak		X	X	X	X	4
<i>Rhexia alifanus</i>	savannah meadowbeauty		X	X			2
<i>Rhexia mariana</i> var. <i>mariana</i>	pale meadowbeauty		X				1
<i>Rhexia nashii</i>	maid marian					X	1
<i>Rhexia petiolata</i>	fringed meadowbeauty			X			1
<i>Rhexia virginica</i>	handsome harry			X			1
<i>Rhus copallinum</i> var. <i>copallinum</i>	winged sumac		X		X		2
<i>Rhynchosia cytisoides</i>	royal snoutbean				X		1
<i>Rhynchosia reniformis</i>	dollarleaf				X		1
<i>Rhynchospora cephalantha</i> var. <i>cephalantha</i>	bunched beaksedge			X			1
<i>Rhynchospora chalarocephala</i>	loosehead beaksedge	X		X			2
<i>Rhynchospora chapmanii</i>	Chapman's beaksedge	X	X	X			3
<i>Rhynchospora ciliaris</i>	fringed beaksedge			X			1
<i>Rhynchospora corniculata</i>	shortbristle horned beaksedge	X					1
<i>Rhynchospora distans</i>	narrow-fruited fascicled beaksedge			X			1
<i>Rhynchospora fascicularis</i>	fascicled beaksedge	X					1
<i>Rhynchospora glomerata</i>	clustered beaksedge	X					1
<i>Rhynchospora gracilentata</i>	slender beaksedge	X		X		X	3
<i>Rhynchospora megalocarpa</i>	sandyfield beaksedge		X		X	X	3
<i>Rhynchospora plumosa</i>	plumed beaksedge		X	X			2
<i>Rhynchospora</i> sp.	beaksedge		X				1
<i>Rubus argutus</i>	sawtooth blackberry			X			1
<i>Rubus cuneifolius</i>	sand blackberry		X	X	X		3
<i>Rubus pensilvanicus</i>	sawtooth blackberry	X	X	X		X	4
<i>Sabatia brevifolia</i>	shortleaf rosegentian		X	X			2
<i>Sagittaria lancifolia</i>	bulltongue arrowhead	X					1
<i>Salvia azurea</i> var. <i>azurea</i>	azure blue sage		X				1

Scientific Name	Common Name	Bay Swamp	High Pine	Hydric Savanna	Sandhill	Stream Swamp	Grand Total
<i>*Sarracenia leucophylla</i>	white-top pitcherplant			X			1
<i>Schizachyrium hirtiflorum</i>	crimson bluestem				X		1
<i>Schizachyrium stoloniferum</i>	creeping little bluestem		X		X		2
<i>Schizachyrium tenerum</i>	slender bluestem				X		1
<i>Scleria ciliata</i> var. <i>ciliata</i>	hairy nutrush		X	X			2
<i>Scleria ciliata</i> var. <i>elliottii</i>	broad-leaved hairy nutrush		X				1
<i>Scleria muehlenbergii</i>	pitted nutrush			X			1
<i>Scleria</i> sp.	nutrush				X		1
<i>Scutellaria</i> sp.	skullcap	X					1
<i>Serenoa repens</i>	saw palmetto		X	X	X	X	4
<i>Sericocarpus tortifolius</i>	whiteton aster		X	X	X		3
<i>Seymeria cassioides</i>	yaupon blacksenna		X	X	X		3
<i>Seymeria pectinata</i>	Piedmont blacksenna				X		1
<i>Smilax auriculata</i>	earleaf greenbriar		X	X	X		3
<i>Smilax bona-nox</i>	saw greenbriar		X		X		2
<i>Smilax glauca</i>	cat greenbriar	X	X	X	X	X	5
<i>Smilax laurifolia</i>	laurel greenbriar	X	X	X		X	4
<i>Smilax pumila</i>	sarsaparilla vine		X		X		2
<i>Smilax rotundifolia</i>	roundleaf greenbriar		X				1
<i>Smilax walteri</i>	coral greenbriar					X	1
<i>Solidago fistulosa</i>	pinebarren goldenrod		X	X		X	3
<i>Solidago odora</i>	sweet goldenrod		X	X	X		3
<i>Solidago pulverulenta</i>	downy goldenrod		X				1
<i>Sorghastrum nutans</i>	yellow indiagrass		X				1
<i>Sorghastrum secundum</i>	lopsided indiagrass				X		1
<i>Sphagnum</i> sp.	sphagnum moss	X		X		X	3
<i>Sporobolus junceus</i>	pineywoods dropseed				X		1
<i>Stillingia sylvatica</i>	queen's delight		X		X		2
<i>Stylisma patens</i>	coastalplain dawnflower				X		1
<i>Styrax grandifolius</i>	bigleaf snowbell					X	1
<i>Symphotrichum adnatum</i>	scaleleaf aster		X				1
<i>Symphotrichum concolor</i> var. <i>concolor</i>	Eastern silver aster				X		1
<i>Symphotrichum concolor</i> var. <i>devestitum</i>	Gulf Coast silver aster				X		1
<i>Symphotrichum dumosum</i> var. <i>dumosum</i>	long-stalked aster	X	X		X		3
<i>Symplocos tinctoria</i>	horse sugar					X	1
<i>Syngonanthus flavidulus</i>	yellow hatpins			X			1
<i>Tamala palustris</i>	swamp bay		X			X	2
<i>Taxodium ascendens</i>	pond cypress					X	1
<i>Tephrosia chrysophylla</i>	scurf hoary-pea				X		1
<i>Tephrosia florida</i>	Florida hoary-pea				X		1
<i>*Tephrosia mohrii</i>	pineland hoary-pea				X		1
<i>Tephrosia spicata</i>	spiked hoary-pea		X				1
<i>Tiedemannia filiformis</i> ssp. <i>filiformis</i>	water cowbane			X			1

Scientific Name	Common Name	Bay Swamp	High Pine	Hydric Savanna	Sandhill	Stream Swamp	Grand Total
<i>Toxicodendron radicans</i> var. <i>radicans</i>	Eastern poison ivy	X					1
<i>Tragia smallii</i>	Small's noseburn		X				1
<i>Triadenum virginicum</i>	Virginia marsh St. John's wort	X					1
<i>Trichostema dichotomum</i>	forked bluecurls		X		X		2
<i>Trilisa odoratissima</i>	vanillaleaf		X		X	X	3
<i>Typha</i> sp.	cattail	X					1
<i>Utricularia juncea</i>	Southern bladderwort			X			1
<i>Utricularia</i> sp.	bladderwort			X			1
<i>Vaccinium arboreum</i>	sparkleberry		X		X		2
<i>Vaccinium darrowii</i>	Darrow's blueberry				X		1
<i>Vaccinium elliotii</i>	Elliott's blueberry		X		X	X	3
<i>Vaccinium fuscatum</i>	hairy highbush blueberry		X				1
<i>Vaccinium myrsinites</i>	shiny blueberry		X	X	X		3
<i>Viburnum nudum</i>	possumhaw	X				X	2
<i>Viola palmata</i> var. <i>palmata</i>	early blue violet		X				1
<i>Viola primulifolia</i>	primroseleaf violet	X		X		X	3
<i>Xyris ambigua</i>	coastalplain yellow-eyed grass	X	X	X			3
<i>Xyris baldwiniana</i>	Baldwin's yellow-eyed grass			X			1
<i>Xyris caroliniana</i>	Carolina yellow-eyed grass		X	X	X		3
<i>Xyris curtissii</i>	Curtiss' yellow-eyed grass			X			1
<i>Xyris elliotii</i>	Elliott's yellow-eyed grass			X			1
<i>Xyris fimbriata</i>	fringed yellow-eyed grass	X		X		X	3
<i>Xyris</i> sp.	yellow-eyed grass					X	1
<i>Yucca filamentosa</i>	Adam's needle		X		X		2
Total number of taxa: 313		80	148	115	132	69	

Sandhill

Qualitative sampling. The sandhill natural community has been degraded by past silviculture activities but retains many characteristic species. There was much exposed, bare sand. The diverse but somewhat sparse groundcover was dominated by wiregrass, with Lynn Haven goldenaster and woody goldenrod in full bloom also frequent. Scattered shrubs included saw palmetto, yaupon, and gallberry, many of these around 3 to 5 feet tall. Planted longleaf pines were frequent but nicely spaced, generally younger mature in age, and a few mature sand pines were mixed in the canopy layer. Some of the restored sandhill had mature slash pines present. The subcanopy comprised scattered taller turkey oaks and a few large sand live oaks. The site had accumulating pine litter having not been burned in the past year, but trees had fire scars. Pocket gopher mounds were common throughout the area.

The state-listed threatened pineland hoary-pea (*Tephrosia mohrii*), known from both the eastern and far northwestern sections of sandhill, was observed this year, as well as Gulf Coast silver aster, a variety of silver aster tracked by FNAI. The non-native invasive cogon grass was detected again in sandhill this year. We found 132 plant taxa in this community (Table 1).

Quantitative sampling. The eastern Transect 1 (Figure 3, Table 2) is located on an east-facing slope. It had a total of 32 species with 58% total plant cover, almost identical to 2024. Pine litter is accumulating in the area, but bare mineral soil was still present at around 19%. Wiregrass had the highest cover of all species on the transect, with saw palmetto and sand live oak also contributing significant cover. Shrub cover was around 12%, and herbs averaged 40% cover, also the same as 2024. Shrubs were very low, generally less than 25 cm tall. Species diversity and overall vegetation composition along the transect was very similar to that measured in 2024.

The western Transect 2 (Table 3, Figure 4) is situated near the top of a ridge. It had a total of 32 species with 64% total plant cover. Dominant species were almost entirely herbaceous. Wiregrass was the dominant species by far and cover has increased over the past 2 years. Shrub cover was around 2%, and these very low at around 10 cm tall on average. Herbs were about 57% cover. Species diversity was somewhat lower, but overall vegetation composition along the transect was very similar to that measured in 2024. Fruticose lichens were observed in one quadrat.

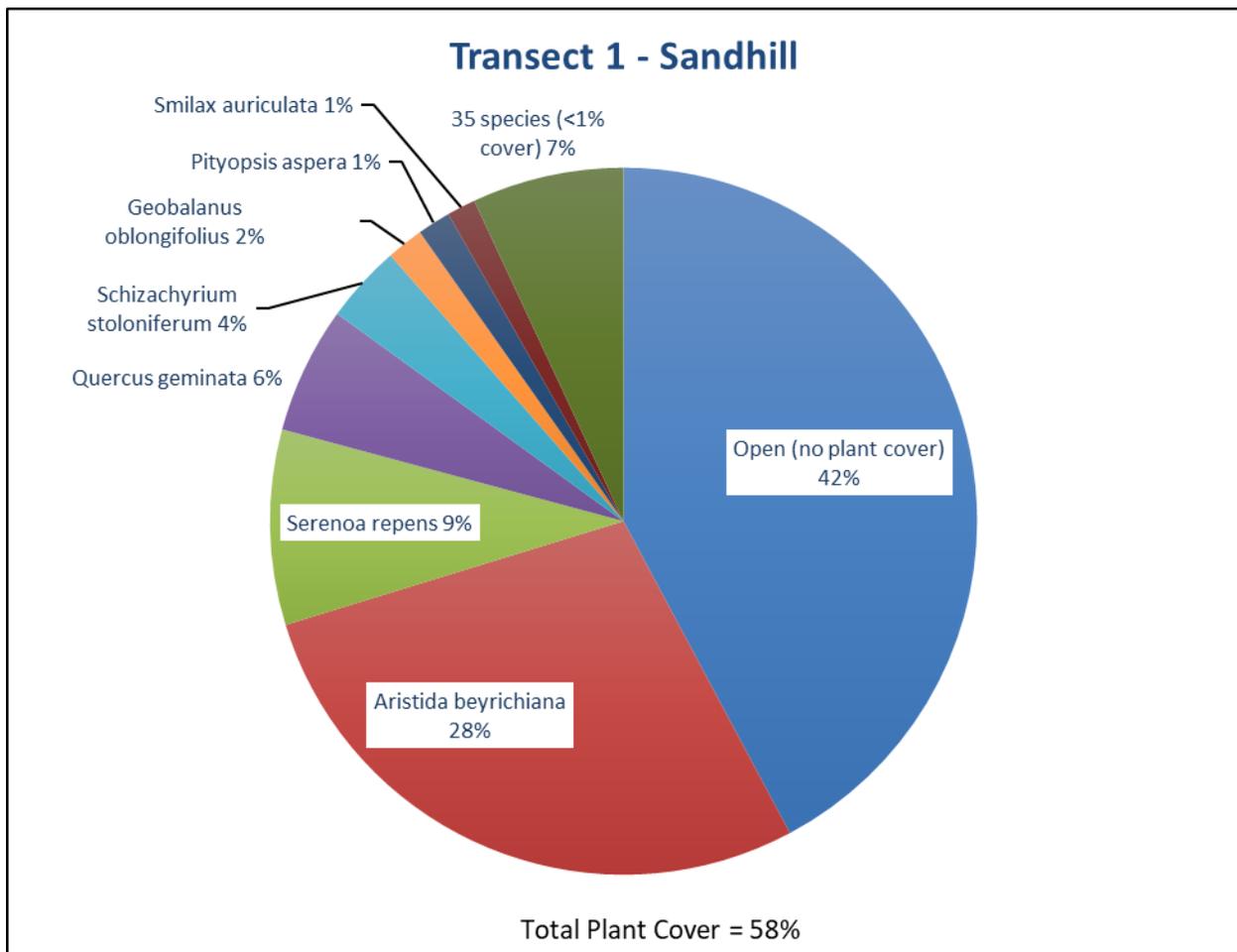


Figure 3. Percent relative cover of plant species in Sandhill Transect 1.

Table 2. Percent cover of plant species in Sandhill Transect 1 sampled on October 13, 2025.

Scientific name	Common name	Average percent cover per quadrat
<i>Andropogon gyrans</i>	Elliott's bluestem	0.13
<i>Andropogon</i> sp.	bluestem	0.07
<i>Andropogon virginicus</i>	broomsedge bluestem	0.23
<i>Aristida beyrichiana</i>	Southern wiregrass	27.77
<i>Bulbostylis ciliatifolia</i>	capillary hairsedge	0.03
<i>Chrysoma pauciflosculosa</i>	woody goldenrod	0.23
<i>Chrysopsis lanuginosa</i>	Lynn Haven goldenaster	0.33
<i>Dichanthelium aciculare</i>	needleleaf witchgrass	0.63
<i>Dichanthelium acuminatum</i>	tapered witchgrass	0.23
<i>Dichanthelium filirimum</i>	hairy needle-leaved witchgrass	0.30
<i>Dichanthelium malacon</i>	dehiscent witchgrass	0.10
<i>Dichanthelium</i> sp.	witchgrass	0.10
<i>Eragrostis elliotii</i>	Elliott's lovegrass	0.10
<i>Eriogonum tomentosum</i>	dogtongue wild buckwheat	0.07
<i>Eupatorium compositifolium</i>	yankeeweed	0.07
<i>Galactia</i> sp.	milkpea	0.03
<i>Geobalanus oblongifolius</i>	gopher apple	1.67
<i>Hexasepalum teres</i>	poor joe	0.03
<i>Hypericum gentianoides</i>	orangegrass	0.03
<i>Ilex vomitoria</i>	yaupon	0.50
<i>Lechea sessiliflora</i>	pineland pinweed	0.03
<i>Mimosa microphylla</i>	sensitive briar	0.03
<i>Panicum virgatum</i>	switchgrass	0.20
<i>Paspalum setaceum</i>	thin paspalum	0.10
<i>Pinus palustris</i>	longleaf pine	0.33
<i>Pityopsis aspera</i>	pineland silkgrass	1.50
<i>Pityopsis graminifolia</i>	narrowleaf silkgrass	0.03
<i>Polygonella gracilis</i>	tall jointweed	0.17
<i>Quercus geminata</i>	sand live oak	5.73
<i>Quercus hemisphaerica</i>	laurel oak	0.10
<i>Quercus minima</i>	dwarf live oak	0.33
<i>Rhus copallinum</i> var. <i>copallinum</i>	winged sumac	0.80
<i>Rhynchosia cytisoides</i>	royal snoutbean	0.23
<i>Rhynchospora megalocarpa</i>	sandyfield beaksedge	0.03
<i>Schizachyrium hirtiflorum</i>	crimson bluestem	0.03
<i>Schizachyrium stoloniferum</i>	creeping little bluestem	3.53
<i>Schizachyrium tenerum</i>	slender bluestem	0.47
<i>Serenoa repens</i>	saw palmetto	8.83
<i>Smilax auriculata</i>	earleaf greenbriar	1.30
<i>Solidago odora</i>	sweet goldenrod	0.67
<i>Stylisma patens</i>	coastalplain dawnflower	0.03
<i>Tephrosia chrysophylla</i>	scurf hoary-pea	0.03
Open (no plant cover)		42.20

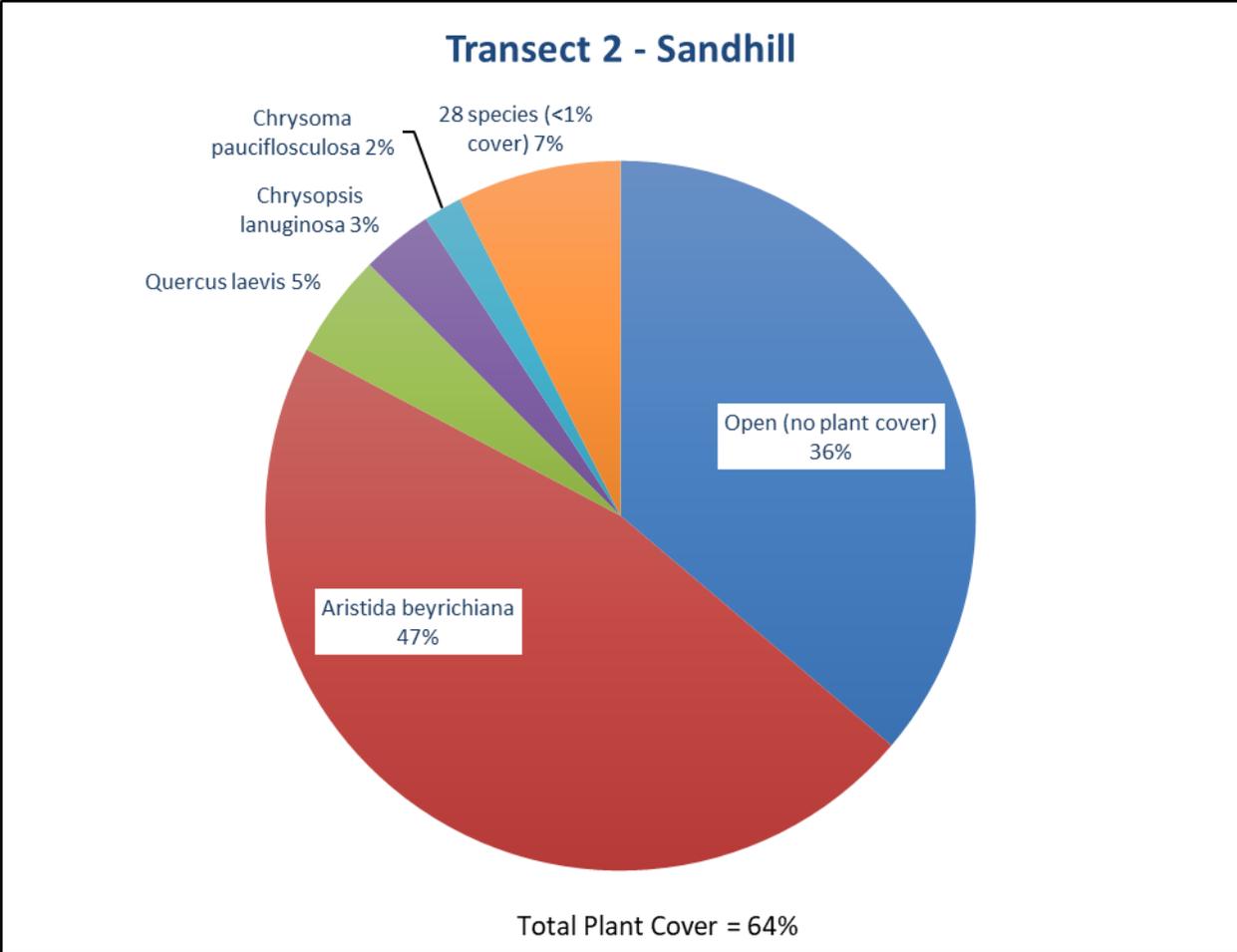


Figure 4. Percent relative cover of plant species in Sandhill Transect 2.

Table 3. Percent cover of plant species in Sandhill Transect 2 sampled on October 13, 2025.

Scientific name	Common name	Average percent cover per quadrat
<i>Andropogon gyrans</i>	Elliott's bluestem	0.90
<i>Andropogon virginicus</i>	broomsedge bluestem	0.73
<i>Aristida beyrichiana</i>	Southern wiregrass	45.73
<i>Aristida</i> sp.	threeawn	0.03
<i>Bulbostylis ciliatifolia</i>	capillary hairsedge	0.10
<i>Chrysoma pauciflosculosa</i>	woody goldenrod	1.73
<i>Chrysopsis lanuginosa</i>	Lynn Haven goldenaster	3.20
<i>Croton argyranthemus</i>	silver croton	0.10
<i>Dalea pinnata</i>	summer farewell	0.03
<i>Dichantherium aciculare</i>	needleleaf witchgrass	0.60
<i>Dichantherium acuminatum</i>	tapered witchgrass	0.97
<i>Dichantherium ensifolium</i>	small-leaved witchgrass	0.23
<i>Dichantherium portoricense</i>	Puerto Rican witchgrass	0.10
<i>Dichantherium</i> sp.	witchgrass	0.03
<i>Eriogonum tomentosum</i>	dogtongue wild buckwheat	0.03

Scientific name	Common name	Average percent cover per quadrat
<i>Eupatorium compositifolium</i>	yankeeweed	0.07
<i>Euphorbia floridana</i>	greater Florida spurge	0.03
<i>Galactia minor</i>	leafy milkpea	0.83
<i>Geobalanus oblongifolius</i>	gopher apple	0.23
<i>Hypericum gentianoides</i>	orangegrass	0.07
<i>Liatris secunda</i>	Piedmont gayfeather	0.10
<i>Mimosa microphylla</i>	sensitive briar	0.13
<i>Pinus palustris</i>	longleaf pine	0.33
<i>Pityopsis aspera</i>	pineland silkgrass	0.03
<i>Polygonella gracilis</i>	tall jointweed	0.10
<i>Quercus laevis</i>	turkey oak	4.67
<i>Rhynchosia citisoides</i>	royal snoutbean	0.03
<i>Rubus cuneifolius</i>	sand blackberry	0.10
<i>Schizachyrium stoloniferum</i>	creeping little bluestem	0.53
<i>Smilax auriculata</i>	earleaf greenbriar	0.70
<i>Solidago odora</i>	sweet goldenrod	0.13
<i>Tephrosia chrysophylla</i>	scurf hoary-pea	0.03
Open (no plant cover)		36.20

Hydric Savanna

Qualitative sampling. The restoration of the fire-suppressed hydric savanna was begun in 2010 by mowing down the dense shrubs with a Gyro-Trac machine. Follow-up prescribed burning further reduced the shrub strata. As a result, much of the ground was bare or sparsely vegetated and there was some disturbance by vehicle tracks in the two sampling periods prior to 2014. Fires and hog rooting have created continual shifts in the herbaceous vegetation, primarily in the lowest, wettest portions of the community. Herb cover was often dense with a wide variety of herbs observed colonizing the area. Beaksedges, toothache grass, and foxtail club-moss dominated in the wetter sections and wiregrass in the drier parts, although purple bluestem remained a dominant in the driest areas in the vicinity of Transect 2. Scattered shrubs included black titi, large gallberry, sweet pepperbush, and gallberry. Some portions had a young canopy of slash pine, while many were treeless.

We found one state-listed pitcherplant, although 2 more have been recorded in the past and are likely still present. The state-listed threatened pinewoods bluestem was also seen again this year. The ground was saturated in the lowest areas during the 2025 sampling, and localized but extensive hog digging was noted on hillside seeps. We identified 115 plant taxa in this community (Table 1).

Quantitative sampling. The eastern Transect 1 (Table 4, Figure 5) is on a south-facing slope and had a total of 71 species with 95% total plant cover, about the same as last year. Herbaceous species made up most of the transect cover, and wiregrass cover was the same as in 2024. The southern end of the transect has been heavily damaged from hog rooting in the past, but herb cover is increasing on the disturbed soil. Shrub species made up around 4% average cover per quadrat, similar to last year, and these are very low (around 33 cm tall). Vegetation composition and cover were similar to the 2024 sample.

The western Transect 2 (Table 5, Figure 6) is also on a south facing slope. It had a total of 69 species with 81% total plant cover, about the same as last year. The drier north end had abundant purple bluestem and wiregrass and was shaded by pond pine, while the wetter and more open south end was more disturbed from hog rooting and largely dominated by beaksedges. Shrub species made up around 4% average cover per quadrat, these fairly low at around 35 cm tall. Total herb cover averaged 78%. In general, vegetation composition and cover were similar to the 2024 sample.

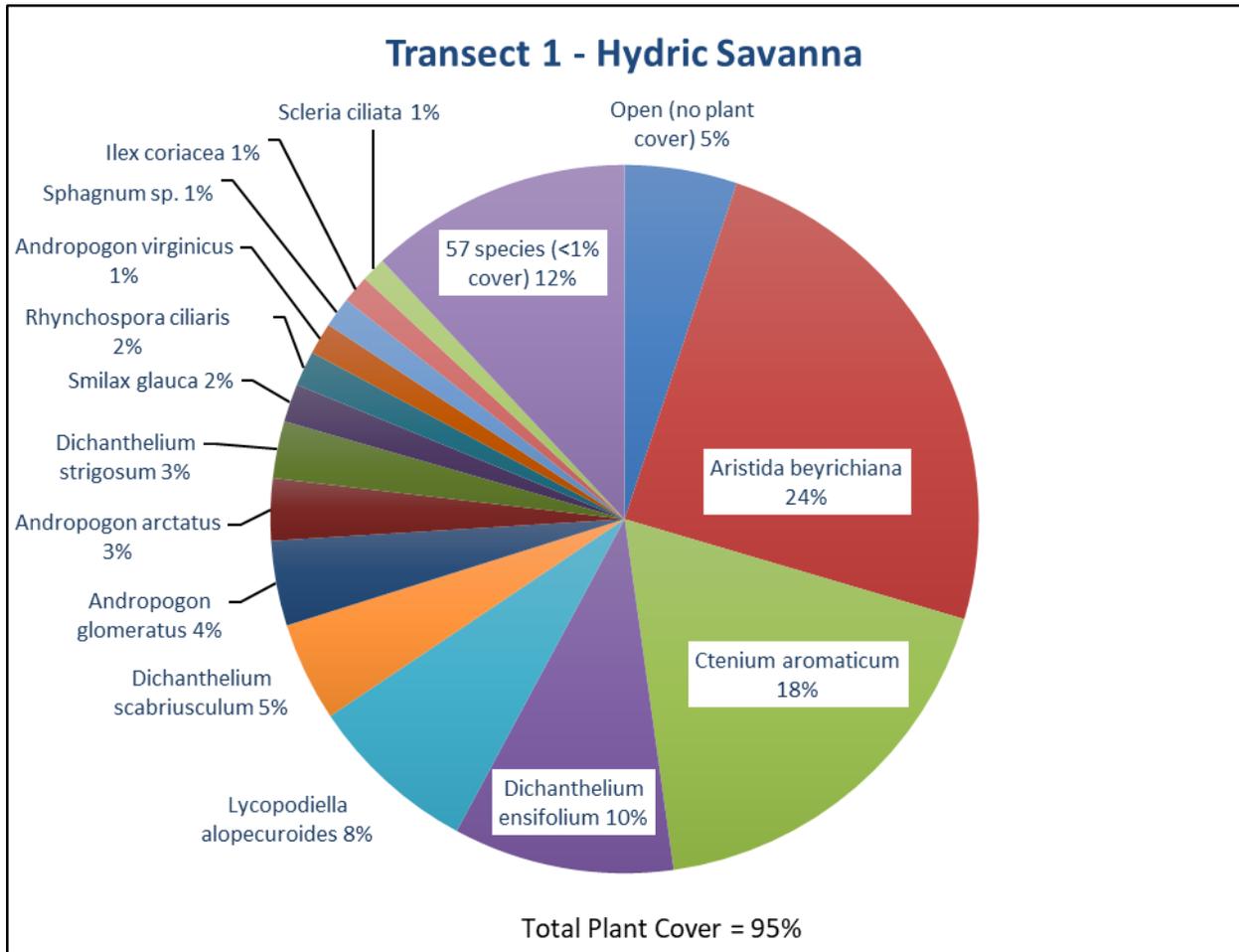


Figure 5. Percent relative cover of plant species in Hydric Savanna Transect 1.

Table 4. Percent cover of plant species in Hydric Savanna Transect 1 sampled on October 14, 2025.

Scientific name	Common name	Average percent cover per quadrat
<i>Aletris lutea</i>	yellow colic-root	0.83
<i>Andropogon arctatus</i>	pinewoods bluestem	2.60
<i>Andropogon glomeratus</i>	bushy bluestem	3.57
<i>Andropogon sp.</i>	bluestem	0.07
<i>Andropogon virginicus</i>	broomsedge bluestem	1.33
<i>Aristida beyrichiana</i>	Southern wiregrass	22.47
<i>Centella erecta</i>	spadeleaf	0.43

Scientific name	Common name	Average percent cover per quadrat
<i>Cliftonia monophylla</i>	black titi	0.53
<i>Coleataenia longifolia</i>	ciliate redtop panicum	0.03
<i>Coleataenia</i> sp.		0.03
<i>Ctenium aromaticum</i>	toothache grass	16.77
<i>Dichantherium ensifolium</i>	small-leaved witchgrass	9.27
<i>Dichantherium scabriusculum</i>	woolly witchgrass	4.17
<i>Dichantherium strigosum</i>	roughhair witchgrass	2.40
<i>Diodia virginiana</i>	Virginia buttonweed	0.10
<i>Drosera capillaris</i>	pink sundew	0.07
<i>Drosera tracyi</i>	dewthreads	0.03
<i>Edrastima uniflora</i>	oldenlandia	0.03
<i>Erigeron vernus</i>	early whitetop fleabane	0.27
<i>Eriocaulon decangulare</i>	tenangle pipewort	0.33
<i>Eupatorium pilosum</i>	rough boneset	0.67
<i>Eupatorium rotundifolium</i>	roundleaf thoroughwort	0.57
<i>Eurybia eryngiifolia</i>	thistleleaf aster	0.03
<i>Euthamia caroliniana</i>	slender flattop goldenrod	0.27
<i>Gaylussacia mosieri</i>	woolly huckleberry	0.60
<i>Helianthus angustifolius</i>	narrowleaf sunflower	0.23
<i>Hypericum brachyphyllum</i>	coastalplain St. John's wort	0.07
<i>Hypericum cistifolium</i>	roundpod St. John's wort	0.03
<i>Hypericum crux-andreae</i>	St. Peter's wort	0.07
<i>Hypericum fasciculatum</i>	peelbark St. John's wort	0.07
<i>Ilex coriacea</i>	large gallberry	1.17
<i>Ilex glabra</i>	gallberry	0.27
<i>Juncus trigonocarpus</i>	redpod rush	0.03
<i>Kelloggloa verrucosa</i>	warty panicgrass	0.43
<i>Lachnanthes caroliniana</i>	Carolina redroot	0.03
<i>Liatris resinosa</i>	dense gayfeather	0.23
<i>Liatris</i> sp.	blazing star	0.03
<i>Lobelia brevifolia</i>	shortleaf lobelia	0.03
<i>Lophiola aurea</i>	golden crest	0.10
<i>Ludwigia linifolia</i>	Southeastern primrosewillow	0.03
<i>Lycopodiella alopecuroides</i>	foxtail club-moss	7.13
<i>Pinus elliotii</i>	slash pine	0.13
<i>Pinus</i> sp.	pine	0.10
<i>Pluchea baccharis</i>	rosy camphorweed	0.03
<i>Polygala lutea</i>	orange milkwort	0.03
<i>Pseudolycopodiella caroliniana</i>	slender club-moss	0.10
<i>Rhexia alifanus</i>	savannah meadowbeauty	0.13
<i>Rhexia petiolata</i>	fringed meadowbeauty	0.37
<i>Rhynchospora cephalantha</i> var. <i>cephalantha</i>	bunched beaksedge	0.20
<i>Rhynchospora chalarocephala</i>	loosehead beaksedge	0.03
<i>Rhynchospora chapmanii</i>	Chapman's beaksedge	0.47
<i>Rhynchospora ciliaris</i>	fringed beaksedge	1.47
<i>Rhynchospora gracilentata</i>	slender beaksedge	0.47
<i>Rhynchospora plumosa</i>	plumed beaksedge	0.03

Scientific name	Common name	Average percent cover per quadrat
<i>Rubus argutus</i>	sawtooth blackberry	0.30
<i>Rubus pensilvanicus</i>	sawtooth blackberry	0.30
<i>Scleria ciliata</i>	fringed nutrush	1.03
<i>Scleria ciliata</i> var. <i>ciliata</i>	hairy nutrush	0.07
<i>Seymeria cassioides</i>	yaupon blacksenna	0.23
<i>Smilax glauca</i>	cat greenbriar	1.60
<i>Solidago fistulosa</i>	pinebarren goldenrod	0.03
<i>Sphagnum</i> sp.	sphagnum moss	1.27
<i>Syngonanthus flavidulus</i>	yellow hatpins	0.03
<i>Tiedemannia filiformis</i> ssp. <i>filiformis</i>	water cowbane	0.03
Unknown Herb		0.37
<i>Utricularia</i> sp.	bladderwort	0.03
<i>Viola primulifolia</i>	primroseleaf violet	0.03
<i>Xyris ambigua</i>	coastalplain yellow-eyed grass	0.67
<i>Xyris baldwiniana</i>	Baldwin's yellow-eyed grass	0.10
<i>Xyris caroliniana</i>	Carolina yellow-eyed grass	0.03
<i>Xyris</i> sp.	yellow-eyed grass	0.13
Open (no plant cover)		5.13

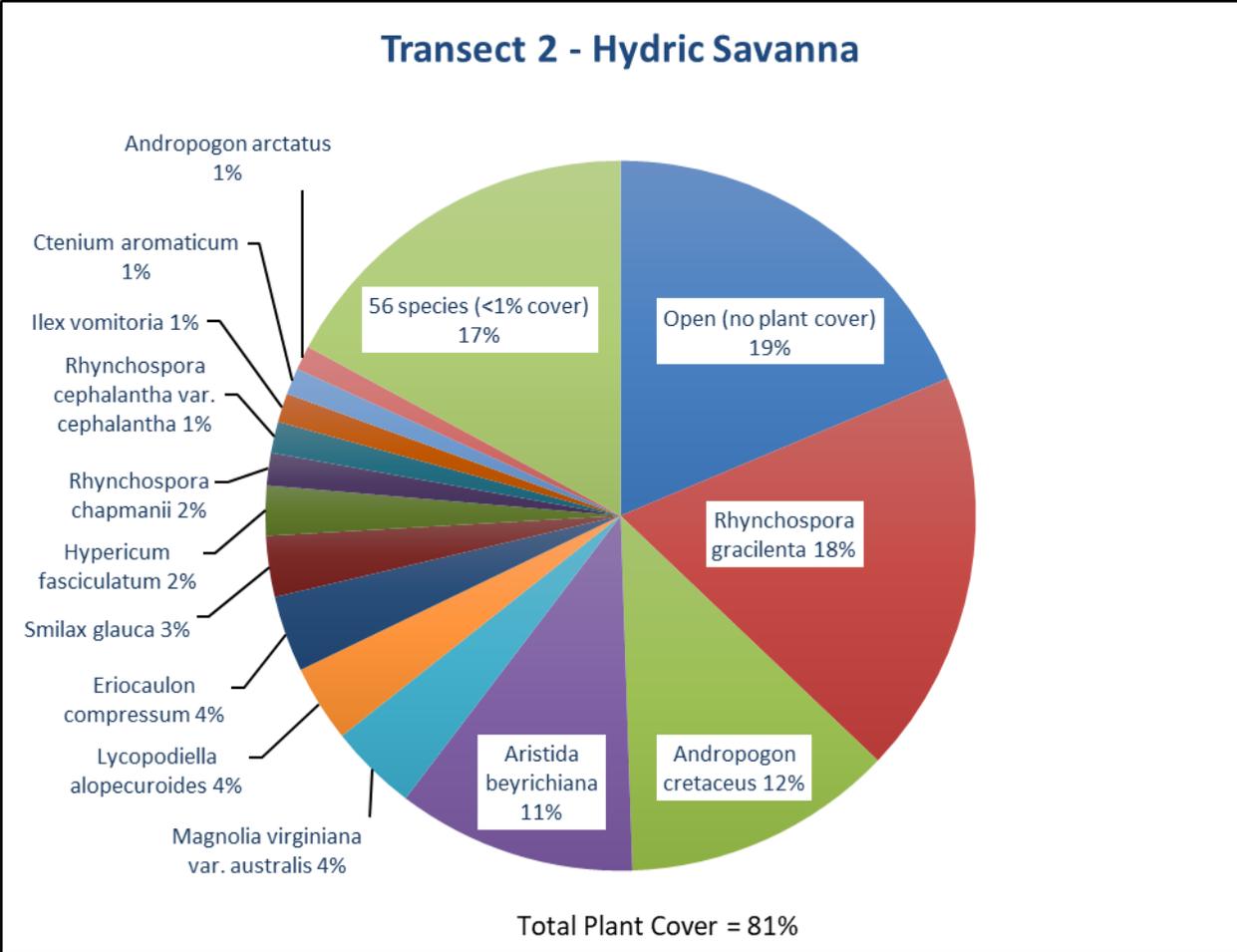


Figure 6. Percent relative cover of plant species in Hydric Savanna Transect 2.

Table 5. Percent cover of plant species in Hydric Savanna Transect 2 sampled on October 14, 2025.

Scientific name	Common name	Average percent cover per quadrat
<i>Andropogon arctatus</i>	pinewoods bluestem	1.17
<i>Andropogon cretaceus</i>	purple bluestem	13.07
<i>Andropogon glomeratus</i>	bushy bluestem	0.60
<i>Andropogon virginicus</i>	broomsedge bluestem	0.53
<i>Aristida beyrichiana</i>	Southern wiregrass	11.50
<i>Bidens mitis</i>	smallfruit beggarticks	0.10
<i>Callicarpa americana</i>	American beautyberry	0.03
<i>Centella erecta</i>	spadeleaf	0.10
<i>Clethra tomentosa</i>	downy sweet pepperbush	0.57
<i>Coleataenia longifolia</i>	ciliate redtop panicum	0.03
<i>Ctenium aromaticum</i>	toothache grass	1.27
<i>Cyrilla racemiflora</i>	titi	0.03
<i>Dichantherium ensifolium</i>	small-leaved witchgrass	1.00
<i>Dichantherium leucothrix</i>	rough witchgrass	0.50
<i>Dichantherium scabriusculum</i>	woolly witchgrass	0.70

Scientific name	Common name	Average percent cover per quadrat
<i>Dichanthelium</i> sp.	witchgrass	0.30
<i>Dichanthelium strigosum</i>	roughhair witchgrass	0.97
<i>Drosera capillaris</i>	pink sundew	0.30
<i>Edrastima uniflora</i>	oldenlandia	0.10
<i>Eriocaulon compressum</i>	flattened pipewort	3.67
<i>Eriocaulon decangulare</i>	tenangle pipewort	0.60
<i>Eupatorium pilosum</i>	rough boneset	0.17
<i>Euthamia caroliniana</i>	slender flattop goldenrod	0.37
<i>Fuirena pumila</i>	dwarf umbrellasedge	0.23
<i>Hypericum crux-andreae</i>	St. Peter's wort	0.40
<i>Hypericum fasciculatum</i>	peelbark St. John's wort	2.40
<i>Hypericum</i> sp.	St. John's wort	0.03
<i>Ilex coriacea</i>	large gallberry	0.10
<i>Ilex glabra</i>	gallberry	0.03
<i>Ilex vomitoria</i>	yaupon	1.40
<i>Juncus trigonocarpus</i>	redpod rush	0.27
<i>Kelochloa verrucosa</i>	warty panicgrass	0.87
<i>Lachnanthes caroliniana</i>	Carolina redroot	0.10
<i>Lachnocaulon</i> sp.	bogbutton	0.20
<i>Liatris resinosa</i>	dense gayfeather	0.13
<i>Ludwigia linifolia</i>	Southeastern primrosewillow	0.43
<i>Lycopodiella alopecuroides</i>	foxtail club-moss	3.70
<i>Magnolia virginiana</i> var. <i>australis</i>	sweetbay	4.23
<i>Nyssa biflora</i>	swamp tupelo	0.20
<i>Osmunda spectabilis</i>	royal fern	0.03
<i>Osmundastrum cinnamomeum</i>	cinnamon fern	0.53
<i>Pinus elliotii</i>	slash pine	0.10
<i>Pinus serotina</i>	pond pine	0.63
<i>Pinus</i> sp.	pine	0.07
<i>Poaceae</i>		0.50
<i>Pteridium pseudocaudatum</i>	tailed bracken	0.73
<i>Rhexia alifanus</i>	savannah meadowbeauty	0.07
<i>Rhexia petiolata</i>	fringed meadowbeauty	0.37
<i>Rhynchospora cephalantha</i> var. <i>cephalantha</i>	bunched beaksedge	1.50
<i>Rhynchospora chalarocephala</i>	loosehead beaksedge	0.33
<i>Rhynchospora chapmanii</i>	Chapman's beaksedge	1.57
	narrow-fruited fascicled	
<i>Rhynchospora distans</i>	beaksedge	0.57
<i>Rhynchospora gracilentia</i>	slender beaksedge	19.50
<i>Rubus cuneifolius</i>	sand blackberry	0.03
<i>Rubus pensilvanicus</i>	sawtooth blackberry	0.50
<i>Scleria ciliata</i>	fringed nutrush	0.13
<i>Scleria muehlenbergii</i>	pitted nutrush	0.07
<i>Smilax glauca</i>	cat greenbriar	2.93
<i>Smilax laurifolia</i>	laurel greenbriar	0.73
<i>Solidago fistulosa</i>	pinebarren goldenrod	0.03
<i>Sphagnum</i> sp.	sphagnum moss	0.37
Unknown Herb		0.03

Scientific name	Common name	Average percent cover per quadrat
<i>Utricularia juncea</i>	Southern bladderwort	0.10
<i>Xyris ambigua</i>	coastalplain yellow-eyed grass	0.57
<i>Xyris caroliniana</i>	Carolina yellow-eyed grass	0.23
<i>Xyris curtissii</i>	Curtiss' yellow-eyed grass	0.07
<i>Xyris elliottii</i>	Elliott's yellow-eyed grass	0.80
<i>Xyris fimbriata</i>	fringed yellow-eyed grass	0.30
<i>Xyris</i> sp.	yellow-eyed grass	0.20
Open (no plant cover)		18.67

High Pine

Qualitative sampling. Mature slash pine plantation once covered most of the area being restored to high pine, but pine thinning and prescribed fire have much improved the community from even a few years ago. The canopy was very open with a basal area of around 20 ft² per acre. Shrubs were shorter, but gaining height without recent fire as of 2025. Herbs and grasses were prevalent throughout. The understory was either shrub dominated, usually by yaupon, or an open grassy groundlayer of wiregrass with widely scattered saw palmetto and gallberry, neither of which usually exceeded 10% cover. Nearer the ecotone with hydric savanna and in open, flat areas of the community, many other herbs were found with the wiregrass, including little bluestem, pinkscale gayfeather, narrowleaf silkgrass, sweet goldenrod, scaleleaf aster, and roundleaf thoroughwort. There was little bare soil, with pine litter common. The non-native invasive Japanese climbing fern and cogon grass were found again this year in high pine. We found 148 plant taxa in this community (Table 1).

Bay Swamp

Qualitative sampling. This natural community occurs as a narrow band along the small stream tributaries to Lafayette Creek. The open to dense canopy consisted of sweetbay, slash pine, and swamp tupelo. This canopy was sometimes replaced by a dense, tall layer of black titi and other shrubs. Other frequent shrubs included titi, fetterbush, dahoon holly, and large gallberry. Laurel greenbrier was a common vine. The herb stratum was relatively sparse in more shaded areas with clustered sedge and cinnamon fern seen most frequently. However, cleared areas of bay swamp along road crossings contained many more herb species that tend to be weedy. The state-endangered white-top pitcherplant is known from this community but was not seen in 2025. Peruvian primrosewillow, a FISC Category I invasive non-native plant species, was observed near the road, and cogon grass was found for the first time in this community this year. We found 80 plant taxa in this community (Table 1).

Stream Swamp

Qualitative sampling. This relatively undisturbed natural community occurs along the narrow floodplain of Lafayette Creek and its major tributary, Wolf Creek. On the west side of the site, the closed canopy was composed of mature red maple, swamp tupelo, water oak, and sweetbay. The often dense shrubs consisted of coastal doghobble, sweet pepperbush, titi, black titi, and large gallberry. Sphagnum moss and cinnamon fern made up most of the sparse groundcover. The state-endangered primrose-flowered

butterwort was identified in stream swamp in 2023, but this area of the swamp was not sampled in 2025. The non-native invasive Japanese climbing fern was found again this year in the stream swamp disturbed by the bridge crossing on the east side of the site. We found 69 plant taxa in this community (Table 1).