

NOTEWORTHY PLANTS FROM NORTH FLORIDA. III.

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ABSTRACT

The following appear to be first reports for the state of Florida: *Aristida tuberculosa*, *Bumelia thornei* (an endangered species), *Chaerophyllum procumbens*, *Centaurea maculosa*, *Desmodium nuttallii*, *Dodocatheon meadia*, *Phyla lanceolata*, *Polygonum bicornis*, *Rhus aromatica*, and *Sporobolus vaginiflorus*. A few adventive and naturalized species are also listed that could be considered new to the state. Also, 28 additions to the flora of the Florida panhandle are documented here, and several significant range extensions within the area are given.

This is the third installment of a series (Anderson 1984, 1986) to update our knowledge of the flora of the Florida panhandle and Clewell's guide (1985) to the flora. The area of coverage is from the Suwannee River west to the Alabama state line. Burkhalter (1984, 1985) Ward and Gholson (1987), and Wilhelm (1984) have also added new records from this region.

New discoveries—i.e., taxa not listed by Clewell (1985)—and range extensions are given here; a few collections appear to be first reports for the entire state. Exotics that appear to be adventive or naturalized are also listed. Voucher specimens are at FSU unless noted otherwise.

TAXA NEW TO THE AREA

ACACIA FARNESIANA L. Franklin Co.: St. Vincent Island, L. C. Anderson 8584, 10205 (first bloomed in December 1986); native, new to Florida panhandle.

ARISTIDA TUBERCULOSA Nutt. Holmes Co.: W of Graceville, R. K. Godfrey 79130; Taylor Co.: 9 mi N of Steinhatchee, R. K. Godfrey 79119; native, new to Florida.

AUREOLARIA VIRGINICA (L.) Pennell. Calhoun Co.: Altha, E. West in 1941 (FLAS); Gadsden Co.: Aspalaga, H. Foster 58 (FLAS), 3 mi NNW of Gretna, L. C. Anderson 9733, 10664; Holmes Co.: 5 mi NW of Westville, E. S. Ford 5226 (FLAS); Jackson Co.: Graceville, S. C. Hood 2008 (FLAS); Walton Co.: 9 mi SE of DeFuniak Springs, E. West & L. E. Arnold 257 (FLAS); native, new to Florida panhandle.

BUMELIA THORNEI Cronq. Jackson Co.: 16.2 mi N of Sneads beside rte 271, A. K. Gholson 11720, R. K. Godfrey 79745, 82429, 82430, 82491, 82601; native, new to Florida.

This species was previously known from only four counties in the coastal plain of Georgia (Cronquist 1949). With the designation as an endangered species (Smithsonian Institution 1975), it is appropriate to give additional information about the Florida population. The shrubs (50-100 in number) grow in a wooded shallow basin that seasonally has surface water one to two feet deep. Associated species include *Acer rubrum*, *Ampelopsis arborea*, *Berchemia scandens*, *Campsis radicans*, *Cephalanthus occidentalis*, *Cocculus carolina*, *Crataegus aestivalis*, *C. uniflora*, *C. viridis*, *Diodia virginiana*, *Diospyros virginiana*, *Quercus laurifolia*, *Q. virginiana*, *Viburnum obovatum*, and *Vitis rotundifolia*. The plants match the type description very closely in their slender habit, leaf pubescence, and fruit size but differ in being more robust. Godfrey (pers. comm.) describes the Florida plants as generally up to 2.5 m tall (with rare, vigorous shrubs to 6 m tall), and the leaves are up to 7 cm long and 2.5 cm wide. The type description (Cronquist 1949) says plants to 1.5 m tall and leaves to 4 cm long and 20 mm wide. However, additional plants collected at the type locality of *B. thornei* in Early County, Georgia (A. K. Gholson 11701, R. K. Godfrey 82063, 82155) are also noted to be up to 2.5 m tall, and some leaves are 7 cm long or 2.5 cm wide.

CALLISIA REPENS L. Franklin Co.: Apalachicola, L. C. Anderson 9008; adventive, new to Florida panhandle.

CANAVALIA MARITIMA (Aubl.) Thouars. Dixie Co.: Shired Island, S. W. Leonard 8101; native, new to Florida panhandle. Chapman (1860) reported it for St. Vincent Island in Franklin Co. (as *C. obtusifolia*), but apparently it has not persisted there.

CANNABIS SATIVA L. Franklin Co.: East River, 6 air mi N of Apalachicola, L. C. Anderson 9451; adventive, new to Florida panhandle.

CAREX LAEVIVAGINATA (Kukenth.) Mack. Jackson Co.: Apalachee Game Management Area, Lake Seminole, A. K. Gholson 6063 (personal herbarium); native, new to Florida panhandle. Godfrey and Wooten (1979) list the species for north Florida, but Clewell (1985) did not.

CATHARANTHUS ROSEUS (L.) G. Don. Franklin Co.: beach between Carrabelle and Lanark Village, L. C. Anderson 9651; adventive, new to Florida panhandle.

CENTAUREA MACULOSA Lam. Escambia Co.: junction rte 297 and I-10, J. R. Burkhalter & F. R. Hedges 178; ruderal, new to Florida.

CHAEROPHYLLUM PROCUMBENS (L.) Crantz var. *PROCUMBENS*. Franklin Co.: Scipio Creek, N edge of Apalachicola, L. C. Anderson 9380, St. Vincent Island, L. C. Anderson 9293; Jackson Co.: floodplain W of Chattahoochee, A. K. Gholson 7722; native, new to Florida.

CRINUM ZEYLANICUM (L.) L. Franklin Co.: Eastpoint, L. C. Anderson 9491, Big Towhead Island, L. C. Anderson 9636; Madison Co.: 4 mi S of

Lovett, *G. W. Ramsey* 109; naturalized, new to Florida panhandle.

DESMAZERIA RIGIDA (L.) Tutin. Franklin Co.: Apalachicola cemetery, *L. C. Anderson* 9236, 9356; naturalized, new to Florida panhandle. Chase (1950) listed this species from Florida [as *Scleropoa rigida* (L.) Griseb.], but Hall (1978) noted no specimens were seen from Florida.

DESMODIUM NUTTALLII (Schindler) Schubert. Leon Co.: Tall Timbers Research Station, *R. K. Godfrey* 69084; Wakulla Co.: N of Crawfordville, *R. K. Godfrey* 80101; native, new to Florida.

DODOCATHEON MEADIA L. Gadsden Co.: limestone glades 1.5 air mi SW of Chattahoochee, *L. C. Anderson* 9194, *A. K. Gholson* 11432 (personal herbarium); native, new to Florida. This white-flowered phase is sometimes segregated as *D. hugeri* Small.

ELEOCHARIS NANA Kunth. Franklin Co.: Graham Creek, 8.5 air mi NNE of Apalachicola, *L. C. Anderson* 9731; native, new to Florida panhandle.

EMILIA FOSBERGII Nicols. Leon Co.: Tharpe Street, Tallahassee, *L. C. Anderson* 4531; adventive, new to Florida panhandle. This species in peninsular Florida has gone under the misapplied name of *E. coccinea* (Sims) Sweet.

FICUS CARICA L. Gulf Co.: kitchen midden on Depot Creek, *L. C. Anderson* 9804; naturalized, new to Florida panhandle.

FREESIA REFRACTA Klatt. Franklin Co.: common in several sparsely sodded lawns, Apalachicola, *L. C. Anderson* 9128; naturalized, new to Florida panhandle.

HIBISCUS TRIONUM L. Franklin Co.: edge of tidal marsh, St. George Island, *L. C. Anderson* 10093; adventive, new to Florida panhandle.

HYMENOCALLIS HENRYAE Traub. Liberty Co.: 0.7 mi N of Sumatra, *L. C. Anderson* 10617, rte 379 NW of Sumatra, *R. K. Godfrey* 82044. Clewell (1985) was reluctant to recognize this species, but Smith and Flory (1987) have shown it has distinctive morphology and karyology. Smith (pers. comm.) reports that *H. caroliniana* (L.) Herb. and *H. floridana* (Raf.) Morton are widespread species in the Florida panhandle but not listed by Clewell.

HYPOXIS WRIGHTII (Baker) Brackett. Calhoun Co.: 5 mi W of Blountstown, *R. K. Godfrey* 52966; Franklin Co.: 6 air mi N of Eastpoint, *L. C. Anderson* 10472, St. George Island, *L. C. Anderson* 9180, St. Vincent Island, *L. C. Anderson* 9299; Wakulla Co.: St. Marks lighthouse, *L. B. Trot* 101 (det. A. Herndon); Washington Co.: Rock Hill, *J. Wooten* 1015; native, new to Florida panhandle. These collections were previously identified as either *H. juncea* J. E. Smith or *H. micrantha* Pollard.

LESPEDeza VIRGATA (Thunb.) DC. Leon Co.: Sharer Road, Talla-

hassee, *L. C. Anderson* 8912, 9243; naturalized, new to Florida panhandle.

LILIUM LONGIFLORUM Thunb. Escambia Co.: Pensacola, *J. R. Burkhalter* 8908; Jackson Co.: Merritts' Mill Pond, E of Mariana, *J. B. Nelson* 2804; Leon Co.: Sharer Road, Tallahassee, *L. C. Anderson* 9861; Wakulla Co.: Lake Ellen Road near Panacea, *S. W. Leonard* 6449; naturalized, new to Florida panhandle.

LIMNODEA ARKANSANA (Nutt.) L. H. Dewey. Escambia Co.: Santa Rosa Island, *J. R. Burkhalter* 6364; Franklin Co.: St. Vincent Island, *L. C. Anderson* 9292, 9354; naturalized, new to Florida panhandle. Hall (1978) stated that the species had been reported for Florida, but he had seen no specimens.

MACFADYENA UNGUIS-CATI (L.) A. Gentry. Leon Co.: Tallahassee, *L. C. Anderson* 4328, *R. K. Godfrey* 74221; naturalized and potentially weedy, new to Florida panhandle.

MATELEA PUBIFLORA (Dcne.) Woods. Lafayette Co.: 1 mi E of Mayo, *R. K. Godfrey* 81371, 81630; native, new to Florida panhandle.

PETROSELINUM CRISPUM (Mill.) Mansf. Leon Co.: Tallahassee, *L. C. Anderson* 9661; adventive, new to Florida panhandle.

PHYLA LANCEOLATA (Michx.) Greene. Jackson Co.: Apalachicola River floodplain E of Sneads, *R. K. Godfrey* 82050; Santa Rosa Co.: Escambia River at rte 4 bridge, *J. R. Burkhalter* 9960; native, new to Florida.

PHYLLANTHUS ABNORMIS Baill. Dixie Co.: Shired Island, *R. K. Godfrey* 82137, *W. S. Judd* 2797 (FLAS); native, new to Florida panhandle.

PLATANATHERA × *BICOLOR* (Raf.) Luer. Escambia Co.: near Pensacola, *J. R. Burkhalter* 10394.

PLATANATHERA × *CHAPMANII* (Small) Luer. Liberty and Franklin counties eastward; several collections at FSU and FLAS, but not listed by Clewell (1985).

POLYCARPON TETRAPHYLLUM L. f. Escambia Co.: Seville Square area, Pensacola, *J. R. Burkhalter* 8681; naturalized, new to Florida panhandle. Reported by Wilhelm (1984) but not listed by Clewell (1985).

POLYGONUM BICORNE Raf. Escambia Co.: San Marcus Creek, W of Pensacola, *R. Kral* 6042; native, new to Florida.

RHUS AROMATICA Ait. Escambia Co.: Canoe Creek, 5.7 mi W of Century, *R. K. Godfrey* 81663, *E. S. Ford* 5404 (FLAS), *A. K. Gholson* 11128 (FLAS); native, new to Florida.

RHYNCHOSPORA HARPERI Small. Franklin Co.: Bucks Siding Rd, 2 mi E of rte 65, *L. Conde* in 1976; native, new to Florida panhandle.

ROTTBOELLIA EXALTATA L. f. Leon Co.: 12 air mi W of Tallahassee, *L. C. Anderson* 10926; Madison Co.: lake margin in Greenville, *L. C. Anderson* 10268; naturalized, new to Florida panhandle. Hall (1982) noted

this species has been found in Leon and Jefferson counties, but Clewell (1985) did not list it in his guide.

SCHWALBEA AMERICANA L. Gadsden Co.: 3 air mi NNW of Gretna, *L. C. Anderson* 10548, 10638. Clewell (1985) stated the species was reportedly in the panhandle; these collections confirm its presence.

SPOROBOLUS VAGINIFLORUS (Torr.) Wood. Gadsden Co.: calcareous glade 1.5 mi S of highway 90 bridge at Chattahoochee, *R. K. Godfrey* 82566; native, new to Florida.

VIOLA TRICOLOR L. Franklin Co.: Apalachicola River near Brickyard Landing, *L. C. Anderson* 7324; adventive, new to Florida panhandle.

ZIZIPHUS JUJUBA Mill. Bay Co.: Deer Point Lake, E of Southport, *E. Jackson* in 1986 (FLAS); Okaloosa Co.: 5 mi N of Crestview, *E. Thomason* in 1985 (FLAS); naturalized, new to Florida panhandle.

NOTEWORTHY RANGE EXTENSIONS

ERIOCHLOA MICHAUXII (Poir.) Hitchc. Franklin Co.: Picaline Area, St. Vincent Island, *L. C. Anderson* 10147. Shaw and Webster (1987) cited a collection from Wakulla County. These reports extend the range much farther west than was reported by Clewell (1985).

QUERCUS PAGODA Raf. Franklin Co.: 6 mi N of Apalachicola on St. Marks River, *L. C. Anderson* 7908. Clewell (1985) states the Cherry Bark Oak (as *Q. falcata* var. *pagodaefolia* Ell.) is rare, but it is common on the floodplain of the lower Apalachicola River system.

Many taxa are listed in Clewell's guide (1985) as being found in only one county each. Such listings may reflect relative rareness of the species, oversight in collecting of more widespread species, or an error in documentation. Based on collections at FLAS and FSU, the following are widespread in the Florida panhandle: *Ludwigia leptocarpa* (Nutt.) Hara is documented for 14 counties (beyond the one listed by Clewell); *Platanthera blephariglottis* (Willd.) Lindl., *Rosa laevigata* Michx., and *Spiranthes tuberosa* Raf. for eight additional counties; *Bartonia paniculata* (Michx.) Muhl. for seven additional counties; *Perilla frutescens* (L.) Britt. and *Petunia violacea* Lindl. for six additional counties; and *Polygala leptostachys* Shuttlew. and *Veratrum virginicum* (L.) Ait. f. (as *Melanthium virginicum* L. in Clewell) for five additional counties.

The following were listed by Clewell for one county but have been found in one to three additional counties as noted:

AMARANTHUS BLITUM L. [reported as *A. lividus* L. (Anderson 1986)]. Leon Co.: *L. C. Anderson* 9737. Wilhelm (1984) listed this species for Escambia County.

BOWLESIA INCANA Ruiz. & Pav. Escambia Co.: *J. R. Burkhalter* 885 (FLAS); Franklin Co.: *L. C. Anderson* 6971, 7010, 7890; Jackson Co.: *R. K. Godfrey* 56357.

CALAMINTHA GEORGIANA (Harper) Shinnars. Escambia Co.: near Pensacola, *J. R. Burkhalter* 10535.

CAREX CAROLINIANA Schw. Franklin Co.: *L. C. Anderson* 9436; Jackson Co.: *A. K. Gholson* 10435; Leon Co.: *L. C. Anderson* 8005.

CLEOME HASSLERIANA Chod. Calhoun Co.: *R. K. Godfrey* 75716; Lafayette Co.: *Nieland* in 1940 (FLAS).

CLEOME VISCOSA L. [as *Polansia viscosa* (L.) DC. in Clewell]. Jefferson Col.: *L. Halsey* in 1983.

DACTYLIS GLOMERATA L. Franklin Co.: *L. C. Anderson* 7602; Leon Co.: *L. C. Anderson* 10614.

ECHINODORUS ROSTRATUS (Nutt.) Engelm. Escambia Co.: near Pensacola, *J. R. Burkhalter* 10310.

ERAGROSTIS ATROVIRENS (Desf.) Trin. ex Steud. Franklin Co.: *L. C. Anderson* 7572; Gulf Co.: *R. K. Godfrey* 80721; Liberty Co.: *R. K. Godfrey* 82209.

ERAGROSTIS HYPNOIDES (Lam.) BSP. Calhoun Co.: *R. K. Godfrey* 76107. Gadsden Co.: *A. K. Gholson* 6561; Liberty Co.: *R. K. Godfrey* 57802, 75734.

ERYTHRONIUM UMBILICATUM Parks & Hardin. Leon Co.: *L. C. Anderson* 9214, *R. K. Godfrey* 81965.

FATUOA VILLOSA (Thunb.) Nakai. Escambia Co.: *J. R. Burkhalter* 3176 (FLAS); Franklin Co.: *L. C. Anderson* 8761; Santa Rosa Co.: *J. R. Burkhalter* 9555.

GYMNOCARPON BREVIFOLIUS Trin. Franklin Cop.: *L. C. Anderson* 10227, 10252, 10334; Walton Co.: *E. G. Hume* in 1940 (FLAS).

HYPOCHAERIS RADICATA L. Escambia Co.: *J. R. Burkhalter* 3980 (FLAS); Leon Co.: *L. C. Anderson* 6388; Walton Co.: *D. B. Ward* 6339 (FLAS).

HYPOXIS RIGIDA Chapm. Franklin Co.: Ft. Gadsden State Park, *L. C. Anderson* 6924; Gulf Co.: 6.5 air mi NW of Apalachicola, *L. C. Anderson* 9143; Liberty Co.: 1.2 mi NNE of Sumatra, *L. C. Anderson* 6413, 2 mi NNE of Sumatra, *L. C. Anderson* 5019.

IPOMOEA HEDERACEA Jacq. Escambia Co.: *J. R. Burkhalter* 7924 (FLAS); Franklin Co.: *L. C. Anderson* 6654; Walton Co.: *E. G. Hume* in 1938 (FLAS).

IPOMOEA MACRORHIZA Michx. Calhoun Co.: *R. K. Godfrey* 78000; Escambia Co.: *J. R. Burkhalter* 10400; Walton Co.: *E. G. Hume* in 1938 (FLAS).

LOBELIA FLACCIDIFOLIA Small. Gadsden Co.: *R. K. Godfrey* 78991;

Leon Co.: *D. L. Flichtner* in 1981; Santa Rosa Co.: *L. C. Anderson* 9825.

MANIHOT GRAHAMII Hook. Franklin Co.: *L. C. Anderson* 7757; Gadsden Co.: *R. K. Godfrey* 80765, 80830; Washington Co.: *C. M. Senner* in 1942 (FLAS).

MANISURIS TESSELLATA (Steud.) Scribn. Franklin Co.: *L. C. Anderson* 10021, 10127; Okaloosa Co.: *E. West* in 1950 (FLAS); Santa Rosa Co.: *E. L. Tyson* 491 (FLAS).

ROBINIA HISPIDA L. Escambia Co.: *J. R. Burkhalter* 5906 (FLAS); Franklin Co.: *L. C. Anderson* 9246; Gadsden Co.: *A. K. Gholson* 6158 (FLAS), *R. K. Godfrey* 79838.

RUELLIA BRITTONIANA Leonard. Escambia Co.: *J. R. Burkhalter* 7205; Franklin Co.: *L. C. Anderson* 7278, 7536.

SAGOTIA TRIFLORA (L.) Duch. & Walp. Franklin Co.: *L. C. Anderson* 10102; Lafayette Co.: *L. E. Arnold* in 1941 (FLAS).

SALPICHROA ORIGANIFOLIA (Lam.) Baillon. Jackson Co.: *D. B. Ward* 2922 (FLAS); Leon Co.: *L. C. Anderson* 6457.

SPERGULA ARVENSIS L. Gadsden Co.: just S of Quincy on rte 267, *L. C. Anderson* 10695, *A. K. Gholson* 11639.

SPHENOCLEA ZEYLANICA Gaertn. Gulf Co.: *L. C. Anderson* 9836; Jackson Co.: *G. R. Knight* 277.

STROPHOSTYLES LEIOSPERMA (T. & G.) Piper. Franklin Co.: *L. C. Anderson* 8601, 10122, 10132; Gulf Co.: *L. C. Anderson* 8803.

TRAGIA CORDATA Michx. Gadsden Co.: *L. C. Anderson* 11067.

TRIADENUM TUBULOSUM (Walt.) Gleason. Escambia Co.: *J. R. Burkhalter* 9042; Franklin Co.: *L. C. Anderson* 7695.

TRILLIUM DECIPIENS Freeman. Walton Co.: *Freeman* 515, *D. B. Ward* 6644 (FLAS), *E. West* & *L. E. Arnold* in 1937 (FLAS).

TRITONIA CROCOSMIIFOLIA Nichols. Escambia Co.: *J. R. Burkhalter* 10332; Franklin Co.: *L. C. Anderson* 6446, 7396.

Finally, the following species listed for only one county by Clewell have been found in Franklin County as an additional county of record:

ANTIGONON LEPTOPUS Hook. & Arn. *L. C. Anderson* 6719.

APIUM GRAVEOLENS L. *L. C. Anderson* 9168.

ARUNDO DONAX L. *L. C. Anderson* 6771.

ASTER PRAEALTUS Poir. *L. C. Anderson* 6694.

CALYPTOCARPUS VIALIS Less. *L. C. Anderson* 9655, 9795.

CUSCUTA CAMPESTRIS Yuncker. *L. C. Anderson* 7220, 8390, 9278.

HELIANTHUS ARGOPHYLLUS T. & G. *L. C. Anderson* 9931.

IPOMOEA INDICA (Burm. f.) Merr. *L. C. Anderson* 6706.

PARIETARIA PRAETERMISSA Hinton. *L. C. Anderson* 6798, 7178, 7927, 9294.

POLYGALA MARIANA Mill. *W. B. Masters* 112.

PORTULACA AMILIS Speg. *L. C. Anderson* 10112; corollas pink, not yellow as reported by Clewell (1985).

SCUTELLARIA LATERIFLORA L. *L. C. Anderson* 8527.

SETARIA VIRIDIS (L.) Beauv. *L. C. Anderson* 8268.

SPOROBOLUS CLANDESTINUS (Bieler) Hitchc. *L. C. Anderson* 9916.

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