

DISTRIBUTION OF *CLITORIA*
(LEGUMINOSAE: PHASEOLEAE: CLITORIINAE)
FOR THE FLORA OF NORTH AMERICA PROJECT

PAUL R. FANTZ
Department of Horticultural Science
North Carolina State University
Raleigh, NC 27695-7609
Paul_Fantz@ncsu.edu

ABSTRACT

Documentation data of herbarium vouchers examined and distribution of the taxa is presented for the manuscript on *Clitoria* submitted for the *Flora of North America* project.

The manuscript on *Clitoria* L. (Leguminosae: Phaseoleae: Clitoriinae) for the *Flora of North America* project has been submitted. Documentation of herbarium vouchers examined and distribution of the taxa is lacking. This data is published here in order to assist researchers with state floristic projects.

METHODS

Herbarium vouchers of *Clitoria* from North America were examined from 51 national herbaria and 25 foreign herbaria. All vouchers cited have been identified accurately and annotated. Complete label information is maintained by the author. Distributional data presented here was reduced to state, county, major site, collector(s) and number, and herbaria of deposit.

RESULTS

Fantz (2000) provided nomenclatural notes on names from North America associated with *Clitoria* that are excluded here. The 300 year old herbarium voucher from the DuBois private herbarium collection (Maryland, 1698, Dr. David Krieg) currently deposited at

the Royal Botanic Garden of Edinburgh (E) is the earliest voucher known for the genus. Only three other vouchers of *Clitoria* collected before 1830 are known, two from Virginia collected in the 1730's (*Clayton 108 & 705*, BM) and one from Maryland in 1797 (*Hingston s.n.*, MPU). All are *Clitoria mariana* L. var. *mariana*.

Distribution data for taxa is presented alphabetically by state, then by county, then by author. Authors with multiple collections are cited chronologically. Collection dates generally are excluded. However, some collectors lack a collection number (indicated by *s.n.*, *sine numero*) and made several collections from a similar locality (common 1800's to early 1900's). Also, a few collectors use the same collection number (e.g., *Ruth 400*) for different vouchers of a species. Dates are included in order to segregate voucher data and duplicates correctly.

States and counties have been bold-faced to quickly browse through the data. Locality data has been reduced using abbreviations presented in Table 1 for frequently cited geographical features. Standard map references (e.g., T33S, R28E, S18 - township 33 south, range 28 east, section 18) cited by modern collectors are included. Locality abbreviations used by collectors (e.g., Ind. Terr. - indian territory) were cited as presented on herbarium labels. Elevation and habitat data were excluded. I am willing to share complete data with researchers who need it.

Standard acronyms are utilized for herbarium voucher citations. An acronym followed by a number (e.g., FLAS-3) indicates the number of sheets of that voucher in the herbarium collection. Acronyms followed by a lowercase "m" (e.g., FLAS-m) indicate that the voucher has mixed material of two or more species. Occasionally, duplicates were distributed under one collection number to different herbaria that contained different species. All vouchers are cited with the misidentified vouchers preceded by the word "non" (e.g., GH,MIN, MSC,UC,US; non GA,ISC,K,WTU).

TABLE 1. Abbreviations used in citing locality data for *Clitoria* herbarium vouchers.

btw	between	NF	National Forest
ca	<i>circa</i> , approximately	nr	near
Co	County	Pkwy	Parkway
Co-l	County line	rd	road
Cr	creek	Rd	road
E	East	R	river
For	Forest	R	Range, with number
Ft	Fort	RA	Recreational Area
Hdqr	headquarters	Res	Research
hwy	highway	RR	railroad
Hwy	highway	Rte	route
Isl	Island	S	South
Jct, jct	junction	S	Section, with number
l.c.	<i>loco citato</i>	s.n.	<i>sine numero</i>
Lk	Lake	SP	State Park
mi	mile	Sta	Station
MR	Military Reservation	T	Township, with number
Mt	Mount, Mountain	via	by way of
N	North	vic	vicinity
Nat	Natural	W	West
Nat.	National		

CLITORIA FRAGRANS Small

FLORIDA. DE SOTA: E of Lk Annie, *Bright 4124* (CM). **HIGHLANDS:** Rte 8, btw Childs & Lk Placid, *Brass 15266* (FLAS,GH, US); nr Sebring, *Buswell s.n.* (WIS); Bonnet Lk, hwy 88, T34S, R29E, S8, *Christman & Simons 733* (FLAS); Lakemont Scrub, hwy 85, T34S, R29E, S7, *Christman 1063* (FLAS); Flamingo Villa, hwy 40, T35S, R29E, S12, *Christman 1688* (FLAS); Grassy Cr, hwy 29, T36S, R30E, S8, *Christman 1725* (FLAS); Avon Park Lk, hwy 32, T33S, R28E, S18, *Christman & Thompson 1728* (FLAS-3); Moon

Ranch Rd, Co 25, T35S, R29E, S1, *Christman & Iswaran 1772* (FLAS); sandhills ca 0.3 mi W of RR crossing & Rte 17A, ca 0.3 mi N of DeSoto City via FLA 17A, S10, T35S, R29E, *Fantz 2001* (TOPOTYPE: PH, UNA) & *Fantz & Ward 2003* (TOPOTYPE: F,K,M, MICH,MO); N of Sebring via 17, E on Arbuckle Creek Rd ca 2.5 mi, ca 0.5 mi N on Maxcy, *Fantz 4333* (APCR,DUKE,GA, MG, OSC,TEX); Sebring, *Garrett s.n.* (GA); l.c., *Howell 1068* (US); Avon Park, *Hunnewell 10372* (GH); Rte 27 S of Sebring, ca 1 mi N of jct Rte 66, *Judd & Judd 3384* (FLAS); nr Highlands Lk, *McFarlin 5702* (FLAS, WIS); nr Sebring, *Palmer 27430* (MO, UMO); l.c., *Phillips s.n.* (ARIZ) & *0743* (ARIZ); vic Josephine Cr & US 27, S of Kuhlman, *Ray & Lakela 11050* (GH); 3 mi S of Sebring, *Sargent 7188* (WIS); Sebring, *Small & West s.n.* (FLAS-2); sandhills nr DeSoto City, 20 May 1925, *Small & Wherry 12626* (LECTOTYPE: NY. ISOLECTOTYPES: DUKE,GH, MICH,NCU 206043,NY,UC M216828). **LAKE:** Leesburg, *Meebold 27678* (M-m). **ORANGE:** Phillips, *Christman 1892* (FLAS); hwy 192 ca 3 mi E of US 27, T24S, R27E, S32, *Grey s.n.* (IJ,MISS). **OSCEOLA:** N of US 192, W of I-4, *Grey s.n.* (LSU); 12 mi S of Holopaw via US 441, *Isley & Wemple 9340* (NY). **POLK:** Winter Haven, *Armstrong & Armstrong s.n.* (MO); Lk Alfred, *Armstrong & Armstrong s.n.* (MO); l.c., *Bottimer 488* (US); Frostproof, *Bright 4127* (PENN) & *4128* (CM); North Trout Lk, Co 35, S34, T32S, R28E, *Christman & Dorman 824* (FLAS); Tiger Cr Preserve, *Christman & Dorman 1923* (FLAS); 4 mi E of Lk Hamilton via FLA 544, *Conrad s.n.* (FLAS); Lk Hamilton, 2 mi E of Quarters, *Conard s.n.* (IA); 5 mi E of Haines City via FLA 580, *Conard s.n.* (NCU); 4.4 mi E on Rte 27A via Fla 544, Lk Hamilton, *Fantz & Ward 2002* (BM,BR, FLAS,GH, HAL,K,NY,UMO,UNA, US,W,WIS); l.c., *Fantz 2007* (ASC,ASU,AUA,BA,BM, CAL, CGE,DUKE,FLAS,FTU, GH,HAL,K,KANU,M,MICH,MIN, MO, NY,PENN,PR,RB,SI, TENN,UMO,UNA,US,VSC, W,WIS,WVA); 4.8 mi E Rte 27A via FLA 544, Lk Hamilton, T28S, R28E, *Fantz 2009* (APCR,ARIZ,CAL, FLAS,LA,MIN,MPU,MSC,S,U, UC,US, VEN); ca 0.3 mi N of Fla 544 on L.W.K. Marion Rd, W of 27A, Lk Hamilton, *Fantz 4337* (BISH,BM,CR,ENCB,KUN, MEXU,MG,

MICH,TEX,WTU); btw Babson & Lk Wales, *Godfrey & Reinert 61024* (FSU-2); N of Davenport, *Hood 3551* (FLAS); NW of Lk Wales on Co 4, *Huck 4311* (FLAS); Hesperides on Co 67, jct. Rte 60 & Boy Scout Rd, S8, T30S, R29E, *Huck 4486* (FLAS); Lk Arrow, Boy Scout Rd N of Rte 60, *Huck 4522* (FLAS); Frostproof, S off US 27A, *Lakela 25122* (GH); Lk Iris, Hesperides, 8 mi E of Lk Wales, *Lakela 25157* (GH); *McFarlin 1213* (FLAS); Dundee, *McFarlin 5481* (SYNTYPE of syn. *C. pinetorum*: MICH-2); Winter Haven, *McFarlin 5964* (SYNTYPE of syn. *C. pinetorum*: MICH-2. ISO-SYNTYPE: FLAS 49623); *Ohlinger 87* (F-m,FLAS-m,MO-m); Tiote, S19, T29S, R29E, *Wallace 4643* (FLAS); 0.4 mi W of Loughman on C-54, T25S, R27E, S12, *Wunderlin & Beckner 9268* (FLAS).

CLITORIA MARIANA L.

var. MARIANA

UNITED STATES - LOCALITY UNKNOWN. *Baldwin 2047* (PH); *Beauvois s.n.* (G-2); Carolina, *Boph s.n.* (C); 1822, *Ensler s.n.* (W); *Hb. Fink s.n.* (MO); *Foreman s.n.* (F); 24 Jul 04, *H.A.G. s.n.* (MO); El Paso & Ft Yuma Wagon Rd Exp., Ark-Tex-Ariz, *Hayes s.n.* (F); Branch, *Hayes 17* (M); *Houghton s.n.* (MICH); Ind. Terr., 1891, *Sheldon s.n.* (MSC); S United States, Jun 1888, *McCarthy s.n.* (UC); *Muhlenberg 1967* (PH-3); *Hb. Schreber s.n.* (M); *Hb. Schwoegrichen s.n.* (M); *Schweinitz s.n.* (NY,PH); *Shafer s.n.* (E); San Bois Mts., *Sheldon 91* (US,WTU); *hb. Shurtleff s.n.* (WESC); nr Corinth Nip, *Stewart s.n.* (F); *Hb. Ventenat s.n.* (G-2); Cherokee Country, *Tumor 1769* (BM); *Verte s.n.* (S-2); 1862-1871, *Hb. Welch s.n.* (ILL-2); *Wood s.n.* (NY); *Wood 174* (NY).

ALABAMA. Aug 1841, *Buckley s.n.* (BM-2,NY,S); *Evert s.n.* (F); *Gates s.n.* (NY); *Hatch s.n.* (WIS); *Nevius s.n.* (WIS); *Nuttall s.n.* (BM); *Rugel s.n.* (BM); N. Ala., 1878, *Vasey s.n.* (US). **AUTAUGA:** House Bluff nr Autaugaville, T17N, R13E, S35, *Gunn 703* (AUA);

Jones Bluff nr Statesville, ca 4 mi N. Jones Bluff Dam on Alabama R, T16N, R13E, S8, *Gunn 717* (AUA). **BALDWIN:** Magnolia Springs, *Schallert 2510* (DUKE). **BIBB:** Reed Brake Res Nat Area, *Beckett 209* (AUA); Cababa R at Pipers Ferry, *Harvill et al. 349* (UNA); *Laessle s.n.* (GA). **BLOUNT:** *Eggert s.n.* (MO). **BULLOCK:** 1 mi S of US 82 on Co Hwy 7, T13N, R22E, S30, *Diamond 5901* (AUA). **CALHOUN:** Ft McClellan MR, *Keil 6608* (ASU); l.c., *Knotts s.n.* (WVA). **CHAMBERS:** Langdale, *Hayes 107* (AUA). **CHEROKEE:** 2 mi NW of Jamestown, T17S, R10E, S28, *Henderson & O'Halloran 445* (AUA); ca 20 mi S of Ellisville on Ala 9, *Whetstone & Wayner 5288* (NCU). **CLAY:** Cheaha SP, 15.4 mi S of Oxford, 6.4 mi E of Hwy 241, *Ownbey & Ownbey 1332* (MIN); Entiachopco Cr, ca 4 mi SSW of Ashland, T21S, R8E, S7, *Rutland 527* (AUA); 8 mi NE of Lineville, T18S, R9E, S34, *Rutland 619* (AUA); 2 mi NE of Lineville, T19S, R9E, S29, *Rutland 629* (AUA). **COLBERT:** York Terrace, Sheffield, *Isley 4933* (GA,ISC). **COOSA:** WSW of Rockford at jct Swamp & Hatchett Cr, *Redmond & Russell 0082* (AUA). **CRENSHAW:** 6 mi SW of Sellars, *Montgomery 307* (AUA). **CULLMAN:** *Eggert s.n.* (MO); Cullman, 5 mi SE along 8 Mile Cr, *Leeds 2154* (PH); nr Elks Home, *Morgan 59* (WIS); Cullman, *Sudworth s.n.* (MICH); nr Mulberry R Gorge, *Whetstone 4791* (NCU); St. Bernard, *Wolf s.n.* (UC). **DALE:** Ft Rucker, T5N, R23E, S19, *Diamond 7510* (AUA); Choctawhatchee R, 1 mi N of Newton, *Moore 540* (AUA). **DALLAS:** Hatcher's Bluff, Alabama R ca 4 mi NW of Sordis, T16N, R10E, S35, *Gunn 808* (AUA); Elm Bluff, Alabama R ca 2 mi NW of Shepardsville, T14N, R10E, S20, *Gunn 970* (AUA); ca 2 mi S Selma via US 80, *Kral 32859* (C,GA,MO,NCU,NY, US); *Trelease s.n.* (MO). **DEKALB:** Dr. Nicholson's farm, *Cunningham s.n.* (AUA-2); Buck's Pocket, *Holcombe 078* (AUA); Rte 89, DeSoto SP, *Sherman 052* (TENN); ca 0.7 mi E of jct Co 20 on Ala 68, NW of Collinsville, *Whetstone et al. 5649* (NCU). **ESCAMBIA:** 6.8 mi E of Flomaton on US 31, *Simonds 090* (AUA). **ETOWAH:** 11 Jul 1898, *Eggert s.n.* (NY); Black Creek Falls, *Eggert s.n.* (MO); Sans Mt, Littleton, *Eggert s.n.* (MO); Lookout Mt N of Atalla, *Eggert s.n.* (MO). **FAYETTE:** ca 3 mi E of Stoddards Crossroads, *Clark*

14248 (NCU); Fayette Experiment For, 14 Sept 1954, *Moore s.n.* (AUA) & 8 June 1955, *s.n.* (AUA). **FRANKLIN**: 3 mi S of Russellville, *Isley 4903* (US). **HALE**: Tanglewood, *Williams 314* (UNA). **HENRY**: Co Hwy 97 at Abbie Cr, T5N, R29E, S11, *Diamond 5251* (AUA). **JACKSON**: Sand Mt, *Graves 1074* (MO); 21 mi S of Scottsboro via Rte 32, *Henry s.n.* (CM); Sand Mt., Bryant, *Porter s.n.* (GH). **JEFFERSON**: Birmingham, *Anonymous s.n.* (TENN); South Shades Crest Mt, Bessemer, *Carter s.n.* (AUA); Crawford Fire Tower, 7 mi W of Vestavia on Shades Crest Rd, *Cook 093* (AUA); Cahaba R, 3 mi NE of Cahaba Heights on Co hwy 62, *Sessler 1760* (AUA). **LAMAR**: 7 mi E of Mississippi state line on Ala. 7, *Isley & Wemple 9073* (ISC). **LEE**: 5 mi N of Auburn on Hwy 29, *Beniwal s.n.* (GA); Auburn, *Brown s.n.* (AUA); 5 mi S of Auburn on US 29, *Cook 013* (GA); *Davis s.n.* (AUA); *Davis & Ward s.n.* (AUA); Che-wacla SP, *DeLisle 680* (ISC); *Duke s.n.* (AUA); Auburn, 9 Jun 189-, *Earle s.n.* (MO) & Sep 1898, *Earle s.n.* (F); 1.c., 11 Aug 1897, *Earle & Baker s.n.* (MO,NY,OS,WIS) & 29 Jul 1898, *s.n.* (CM,F,ILL,US); 1.c., *Gaisser s.n.* (AUA); 1.c., *Golden 175* (NCU); 1.c., *Morris 125* (PH) & *171* (AUA); 0.6 mi N on rd 2.5 mi SE of jct with Wine Rd, 2.6 mi SW of Co 26, *Murchison 199* (NCU); Whatley Farm, *Rogers s.n.* (AUA); *Sansing s.n.* (AUA-2). **LOWNDES**: Alabama R at Blue Bluff, T16N, R14E, S19-20, *Gunn 780* (AUA). **MACON**: Tuskegee NF, *Moore 117* (AUA); 5 mi S of Tuskegee-Nostasalga Exit on I-85, *Owens 112* (AUA); Tuskegee NF on Co. 23, *Redmond 127* (AUA). **MARENGO**: 1.5 mi E of Thomaston on Ala. 28, *Isley et al. 10498* (ISC). **MARION**: 18.5 mi SW of Hackleburg on US 43, *Isley & Wemple 9057* (ISC). **MARSHALL**: 1 mi W of Warrenton, *Leeds 253* (PH); Ala 79 at jct US 431, *Spenser 126* (AUA); Guntersville Lake ca 6 mi SE Morgan-Marshall Co-1 off Co 66, ca 0.6 mi N of Co 66, *Whetstone et al. 3249* (NCU). **MOBILE**: Narbonne Pl. nr Natchez St., *Deramus D486* (NCU,UNA); Mobile, *Jewett 285* (G); SE of Three Mile Cr, T4S, R2W, S16, *Lelong 3129.1* (NCU); Mobile, *Mohr 383* (ALU) & *389b* (ALU). **PIKE**: 0.2 mi E of Co hwy 14 on Co hwy 26, then 0.2

mi S on dirt rd, T9N, R21E, S1, *Diamond 5105* (AUA); Spring Hill, *MacKenzie 4037* (NY). **ST. CLAIR**: Pottsville Ridge, *Bostick 81-7* (NCU) & *84-7* (NCU); Texas Ridge, *Bostick 246-14* (NCU); Tus-cumbia Ridge, Beason Cave, *Bostick 288-5* (NCU); Red Mt nr Lk Sumatanga, *Bostick 290-8* (NCU); mt 20 mi NE of Birmingham, *Deramus 188* (GH,UNA); ca 1 mi SE of Cropwell on Ala 34, *Kral 37932* (AUA,GA); Shoal Creek Mt ca 10 mi N Pell City, *McVaugh 11* (FLAS, GA, MICH, WVA); Beaver Creek Mts, *Ripley & Barneby 7370* (NY). **SUMTER**: ca 2.5 mi E of Brewersville, T18N, R1W, S23, *Henderson 126* (AUA); 6 mi N of York on Hwy 17 at RR jct, *Jones 1019* (NCU); S of Bellemy on US 80, *Moore 092* (UNA). **TUSCALOOSA**: Little Hurricane Cr, *Chermock & Chermock s.n.* (UNA); Harris Lk 12 mi NE of Northport, *Chermock s.n.* (UNA); Lk Harris, *Clemens & Jusino s.n.* (UNA); 7 mi W of Samantha, Ala. Sta II, *Colter s.n.* (UNA); 2 mi N of Northport, Ala. Sta IV, *Colter s.n.* (UNA); Univ. Ala. Arboretum, *Deramus 383* (NCU,UNA); 1 mi N of Elrod, *Hubricht B1655* (MO); 10 Jun 50, *BCW s.n.* (UNA). **WILCOX**: Alabama R at Prairie Bluff, ca 3.25 mi N of Miller's Ferry Dam, T14N, R7E, S32, *Gunn 834* (AUA).

ARIZONA. *Budd s.n.* (US); Sycamore Canyon, 22 Sep 1937, *Goodding s.n.* (US) & *Goodding 725* (ARIZ). **COCHISE**: Chiricahua Mts, Five Mile Cr, nr Shaws, *Blumer 2071* (F); Chiricahua Mts, S Fork, Cave Cr Canyon, *Cazier 46* (ASU,NCU) & *985* (ASU,NCU); Chiricahua Nat. Monument, *Clark 8648* (ARIZ); Herb Martyn Camp, Cave Cr, Chiricahua Mts, *Goodding 461* (ARIZ); Garden Canyon, Huachua Game Preserve, *Goodding 553-49* (ARIZ); Cave Cr, Chiricahua Mts, *Jones s.n.* (ARIZ); 1.c., *Kaiser 49-132* (ARIZ); Huachua Mts, *Lemmon 2664* (BM,CM,E,F-3,G-2,GH,ILL,NY,PH,US); Herb Martyn For Camp, *Lehto 5349* (ASC,ASU); Chiricahua Nat. Monument, *McCormick et al. 350* (ARIZ); 1.c., Bonita Canyon, *Moir 450* (ARIZ); 1.c., *Reeves & Pinkava R3740* (ASU,NY); Chiricahua Nat. Monument, Hdqr Area, *Reeves & Jandrey R4043* (ASC); S Fork, Cave Cr, Chiricahua Mts, Coronado NF, *VanDevender & VanDevender 85-185* (ARIZ); Paradise, Chiricahua Mts,

Walker s.n. (ARIZ). **GILA**: Parker Cr Canyon, Exp. Sta, Sierra Ancha Mts, *Gould 3803* (ARIZ,UC); Sierra Andra, *Harrison & Kearney 5668* (ARIZ,LA,US); Shadow Rim Scout Camp Rd, NE of Payson, *Lehto 3905* (ASU,BM, MSC,NCU-2,OSC-2); Kohl's Ranch nr Payson, *Stitt & McLellan* (ASC); Sierra Ancha, *Whitfield s.n.* (ARIZ). **PIMA**: Miller Cr Trail, Rincon Mts, *Bowers R493* (ARIZ); Santa Rita Mts, Madera Canyon, *Clark 12360* (GH); Baboquivari Canyon, N. side Montezuma Bluff, *Gilman B237* (ARIZ) & *237* (ARIZ,GH); Santa Catalina Mts, 2 mi below Federal Prison Camp Hdqr., *Parker et al. 5877* (ARIZ,MO,NY). **SANTA CRUZ**: Madera Canyon, *Johnson 49* (ASC-2); l.c., Santa Rita Mts, *Parker 7068* (ARIZ); l.c., *Peebles et al. 4540* (ARIZ,US); Santa Rita Mts, *Pringle 11* (GH).

ARKANSAS. *Anonymous 27* (HAL); to Ft Gibson, midway to Little Rock, *Anonymous 169* (MO-2); Choctaw Agency, *Bigelow s.n.* (NY); *Demaree 22371* (MO); mts, *Harvey s.n.* (F); NW Ark., *Harvey 30* (MIN) & *73* (GH); 1886, *Hasse s.n.*, (MU) & May 1886, *s.n.* (CM); *Hays s.n.* (NY); NW Ida, *Meek s.n.* (ISC-m); *Sityreaves s.n.* (GH). **BENTON**: Sulphur Springs, *Palmer 1423* (MO-2); *Plank s.n.* (NY-2); Back Hills ca 7 mi E of Rogers on Beaver Lk, *Williams 62203* (F). **BOONE**: Kennedy Mt ca 3 mi W of Camps, T18N, R21W, S5, *Redfearn 19190* (NCU). **CALHOUN**: 1.5 mi E of US 167 on Ark. 172, S of Hampton, S32, *Thomas & Amason 141737* (TENN). **CLARK**: Okolona, *Demaree 17814* (MIN). **CLEBURNE**: ca 6 mi E of Heber Springs, T11N, R9W, S11, *Babb 532* (APRC). **CONWAY**: Petit Jean Mt, Petit Jean SP, Morrilton, *Demaree 25235* (FSU,KANU,NCU) & *37190* (GA,GH,KANU, NCU) & *37475* (GA,GH,KANU,MICH,NCU,VPI) & *52628* (NCU); l.c., *Edwards s.n.* (PENN); Blainey Hill nr Conway, *Haas & Haas s.n.* (NY); 17 mi N of Conway, *Haas 286* (IA); Petit Jean Mt, Petit Jean SP, Morrilton, *Moore 715* (TENN) & *860* (KANU,TENN); l.c., *Straley 266* (VPI); l.c., *Tucker 3511* (APRC); l.c., *Walter 141* (TEAS). **CRAIGHEAD**: Jonesboro, *Demaree 3563* (LSU, MO-2,WIS) & *3701* (MO-

m); Craighead For, 5 mi S of Jonesboro, T13N, R4E, *Lang & Lang 3733* (NCU). **CRAWFORD**: Lk Ft Smith Dam, ca 8 mi S of Mt. Gaylor off hwy 71, *Mahler et al. 4160* (ISC); ca 2 mi SW of Mont Gaylor on hwy 71, T12N, R30W, S12, *Redfearn 24551* (NCU). **CROSS**: A. & M. College Farm, Monticello, *Demaree 18020* (NY-m; non MO); Crowley's Ridge, Levesque, *Demaree 19621* (MO,NY,UC) & *19625* (ISC). **FAULKNER**: *Demaree 5871* (NY) & *5872* (NY) & *5877* (NY); Guy, *Demaree 10960* (GH,MO); nr Quitman, *Ford 199* (FLAS). **FRANKLIN**: 7 m N of Ozark nr Hwy 23, *Bunch 26* (APRC); rd to White Rock Mt from Ark 23, S of Cross, *Smith 964* (KANU, NCU). **FULTON**: Mammoth Springs, *Demaree 5330* (NY); Viola, *Demaree 39685* (GH,KANU). **GARLAND**: Hot Springs, Quachita Mt, *Chase 9734* (F,ILL-3,KANU,MISS,NY) & *9924* (F,ILL,ISC, KANU); Cedar Glades, *Demaree 20484* (MO,NY); N Mt, Hot Springs NP, *Demaree 38035* (ASC,FSU); Novacolite Ridge, W Mt, Hot Springs NP, *Demaree 38076* (GH,FSU, GA,KANU, NCU); Jessieville, *Demaree 40296* (ASC); Hot Springs, *Kellogg s.n.* (MO); l.c., 30 Jul 1879, *Letterman s.n.* (MO) & 5 Aug, *s.n.* (MO); l.c., *Palmer 29236* (MO); l.c., *Runyan 1187* (NY-m) & *1454* (US); l.c., 21 Jun 1934, *Walcott s.n.* (US). **GREENE**: Green Co-1 S to Paragould, Crowley's Ridge, *Demaree 3957* (MO); Crowley's Ridge SP, Walcott, *Demaree 27201* (GH, ISC,KANU,VSC) & *29345* (GA, GH-2,ISC,KANU,NCU, US,USF); nr Paragould, *Eggert s.n.* (MO). **HEMPSTEAD**: Fulton, *Kellogg s.n.* (MO); McNab, *Palmer 16341* (MO); 2 mi E of Hope, *Tucker 5766* (NCU). **HOTSPRINGS**: Magnet Cove, *Demaree 15338* (MO,NY-2) & *16214* (NY) & *25668* (GH, KANU). **HOWARD**: Baker Springs, 10 Aug 09, *Kellog s.n.* (MIN) & 5 Oct 09, *s.n.* (MO) & 8 Oct 09, *s.n.* (MIN). **INDEPENDENCE**: 3 mi W of Cushman, T14N, R8W, S13-14, *Thomas et al. 8643* (TENN, USF). **JOHNSTON**: Piney Creek, Knoxville, *Demaree 19915* (MO, NY). **LEE**: *Griffin & Demaree 37* (DUKE,MO). **LOGAN**: Magazine Mt, *Demaree 17755* (MO,NY); l.c., N of Cove Lk, ca 7 Mi SE of Paris, T7N, R25W, S35, *Iltis 5323* (GH,WIS); *Young s.n.* (CM) & Jun 1925, *s.n.* (CM). **MADISON**: jct Buffalo Tower Rd & hwy 16 btw Red Star and Newton Co-1, *Mahler et al. 4174* (ISC). **MILLER**:

Texarkana, *Demaree 24468* (MO); E of Nature Conservancy Preserve nr Ark 237, S17, *Thomas et al. 151312* (TENN). **NEWTON**: Jasper, *Moore 32523* (GH). **OUACHITA**: Chidester White Oake Lk RA, *Tucker 8084* (NCU). **PERRY**: Lk Sylvia, Ouachita NF, Thornburg, *Demaree 16001* (NY). **PHILLIPS**: Crowley's Ridge, Helena, *Demaree 19750* (MO,NY,WTU). **POINSETT**: Harrisburg, *Demaree 3688* (NY) & *17557* (NY); Harrisburg, Poinsett Co SP, *Tucker 6638* (NCU). **POPE**: 40-Acre Rock, 2 mi W of Russelville, I-40, *Carr 42* (APRC); Dover, *Demaree 19832* (KAN, MO,NY); Illinois Bayou, *Gilbreath s.n.* (APRC); Skyline, *Hammer s.n.* (APRC); 40 Acre-Rock, *Pye 397* (APRC); ca 3 mi SW of Sandgap, T12N, R20W, S16, *Redfearn 21517* (NCU); 40-Acre Rock, 2 mi W of Russelville on I-40, *Ward 42* (APRC). **PRAIRIE**: Grand Prairie, DeValls Bluff, *Demaree 22210* (KAN,MO,NY,WTU). **PULASKI**: Little Rock, Pulaski Heights, *Demaree 22372* (ISC,NY,UC); Little Rock, *Demaree 37532* (FSU,NCU); Little Rock, Fourche Mt, *Demaree 38103* (ASC,GH,KANU); May 1886, *Hasse s.n.* (MU); Little Rock, 5 Jul 1885, *Hasse s.n.* (NY) & 7 Jun 1886, *s.n.* (MIN) & 1 Aug 1886, *s.n.* (MIN); Capses, *Hasse s.n.* (OSC); vic. Rosenbaun Lk NW of Little Rock, *Merrill 510* (DUKE). **SALINE**: Bauxite, *Demaree 36931* (GA,GH,KANU,NCU). **SEBASTIAN**: Ft Smith, *Bigelow s.n.* (NY); nr I.c., *Demaree 3121* (MO); Mansfield, *Demaree 18141* (LA,MO, NY); Sugarloaf Mt, 0.25 mi N of Mt rd, *Parker 1* (APCR); Christmas Knob, *Thompson et al. CO751* (KAN). **SEVIER**: Mineral, *Brinkley 209* (F). **STONE**: rd from St. James to Lock and Dam #3, T14N, R8W, S6, *Thomas et al. 20305* (AUA,ILL,MISS, MSC,MU,ORE). **UNION**: 1 mi E of El Dorado on W Lk Rd, *Flournoy 168* (APRC). **WASHINGTON**: *Blankenship 17247* (WIS); Mt Sequoyah, Fayetteville, *Wheeler 4* (F). **YELL**: Tones Mt, Dardanella, *Demaree 20003* (MO,UC); Mt Nebo, Dardanella, *Demaree 20097* (MO,NY,UC).

DELAWARE. 1849, *Alexander s.n.* (UC); Collins Beach, *Commons s.n.* (PH); Rockford, *Tatnall 670* (GH). **NEW CASTLE**: Brandywine, *Canby s.n.* (GH) & Aug 1858, *s.n.* (NY); Townsend, *Canby*

s.n. (ILL); Wilmington, Sep 1872, *Canby s.n.* (UC); nr I.c., *Canby 1760* (MSC); Brandywine, Wilmington, 24 Jul 1874, *Commons s.n.* (G,MICH,NY,PH) & 4 Sep, *s.n.* (GH,ISC,MO-2,NY,PH-2); Wilmington, *Tatnall s.n.* (GH) & 57 (MIN) & 1849 (UC) & 1866 (GH); E side Brandywine Cr just below Bancrofts Dam, Wilmington, *Tatnall 1528* (GH) & 1914 (PH). **SUSSEX**: nr Gumboro, *Commons s.n.* (PH); Laurel, *Commons s.n.* (PH); Ellendale, *Long & VanPelt s.n.* (PH); nr Milford, *Long & Bartram 1571* (PH).

DISTRICT OF COLUMBIA. *Anonymus s.n.* (ILL); *Bebb s.n.* (F,ILL, WELC); 1862, *Bebb s.n.* (NY) & 1863, *s.n.* (BM,F-2,GH, ISC,M,MICH,NY,PH); Columbia College, *Bebb s.n.* (F); *Canby s.n.* (WIS); District line toward Hyattsville, *Dowell 6406* (F, FLAS, MO); 22 Jul 1888, *Holm s.n.* (GH) & Aug 1895, *s.n.* (MPU,S-2,W); Terra Cotta, Aug 1895, *Holm s.n.* (ILL) & , 11 Aug 1898, 27636 (F,MO,WIS); Hickey Hill, *Leonard 10304* (C); vic Washington, *McCarthy s.n.* (CGE,F); Terra Cotta, *Pollard 585* (NY); I.c., *Steele s.n.* (WVU); vic Washington, 29 Jun 1896, *Steele s.n.* (DUKE,E, MO,MSC,MU,NCSC) & 9 Jul 1899, *s.n.* (G) & 22 Jul 1899, *s.n.* (G); Terra Cotta, *Steele s.n.* (WAB); nr Washington, *Sudworth s.n.* (MICH); Terra Cotta, *Topping s.n.* (LA); Ft Meyer, *Topping s.n.* (MIN); Washington, 1880, *Ward s.n.* (BM); vic I.c., 13 Jun 1880, *Ward s.n.* (GH) & 9 Jul 1876, *Ward 2089* (IA).

FLORIDA. *Anonymus s.n.* (ILL); *Buckley s.n.* (MO); *Chapman s.n.* (AUA,BM,GH,MO,NY-2,PH,WECO); 1841, *Chapman s.n.* (GH); 1845, *Chapman s.n.* (BM); Fish Lk, *O'Neill s.n.* (WIS). **ALACHUA**: W of Dover, Univ. of Florida, Gainesville, *Anonymus s.n.* (OSC-m); Watermelon Pond 6 mi S of Newberry, T11S, R1E, S4, *Botany Class I-65* (FLAS); Gainesville, *Hood s.n.* (FLAS, MICH,MO); nr Gainesville, *Murrill s.n.* (MO); Rochelle, *Weber & West s.n.* (FLAS). **BAY**: Lynn Haven, *Billington 3* (MICH-2,US); 2.5 mi W of Calloway, Tyndall AF Base, T4S, R14W, S22, *Perkins & Nelson 433* (FLAS). **COLUMBIA**: Lk City, *Bitting s.n.* (FLAS-3); I.c., *Rolfs 87* (FLAS,MO). **DIXIE**: 5.5 mi N of Oldtown, *Pasture*

Survey s.n. (FLAS); Hwy 98, Old Town, *Pohl 9635* (ISC). **DUVAL**: Jun, *Curtiss 670* (BM, GH,M,MO,NY-2,PH,US) & Aug, *670* (F, FLAS-2); nr Jacksonville, *Curtiss 4245* (MO,UC, US-3) & *Curtiss 5104* (MO,MSC,US,W,WTU); Girmin Road, Arlington, *Creager 221* (FLAS); Little Talbot Isl SP, T1N, R29E, *Eastley & Adams 1029* (FLAS) & *1033* (FLAS); S Jacksonville, *Lang s.n.* (PH); St. Nicholas, *Lighthipe 250* (NY); Pablo, *Lighthipe 250* (MIN). **ES-CAMBIA**: W Fla. Univ., Pensacola, *Burkhalter 4262* (FSU); 6 mi W of Century, *Ford s.n.* (FLAS); Pensacola, *Mohr s.n.* (LSU). **FRANKLIN**: hwy 98, W Lanark, *Anderson 7394* (FSU-2); Alligator Point, *Godfrey 62460* (FSU-2, NCU); E Pass, *Tracy 6329* (CM,E,F,G-2, GH,MO, MSC, NY,US-2,W). **GADSEN**: Indian Springs SP ca 4.5 mi SW of Greensboro on Rte 12, *Anderson 4491* (FSU,NCU); Centenary Camp NNW of Gretna, T3N, R4W, S18, *Anderson 6428* (FSU); Exp. Sta Quincy, *Foster 34* (FLAS). **HOLMES**: 3 mi E of Coryville on US 90, *Boufford & Ahles 9352* (A); 3 mi SW of Bonifay, *Ford 3544* (FLAS). **JACKSON**: Three R SP N of Sneads, *Anderson 5485* (FSU). **JEFFERSON**: San Lorenzo Mission, 3 mi S of Capps, *Clewell 4625* (FSU). **LAFAYETTE**: 2 mi NW of Rte 347 on Hwy 27, ca 14 mi SE of Mayo, *Anderson 3963* (FSU). **LEON**: Elinor Klapp-Phipps Park N of Tallahassee, *Anderson 16550* (FSU); nr Tallahassee, *Berg s.n.* (NY); nr Bloxhom, *Godfrey et al. 53375* (DUKE, FSU); 3.5 mi SE of Tallahassee, *Godfrey 61486* (FSU-2); Silver Lk, ca 10 mi SW of Tallahassee, *Henderson 64-213* (ISC); 10 mi N of Tallahassee on Centerville Rd, *Jackson 370* (FSU); 5 mi N of Tallahassee, *Kral 4759* (FLAS,GH,NCU,U,VPI); Lk Jackson, *Quintero 49* (VPI); Silver Lk, *Tisdale s.n.* (FLAS-2). **LEVY**: Cedar Keys, *Ford 4720* (FLAS); Rosewood, *Garber s.n.* (FLAS); *Hitchcock 3:90* (F); Cedar Keys, *Palmer 176* (MO). **LIBERTY**: btw Hosford & Bristol, 1955, *Godfrey et al. 53391* (DUKE,FLAS,GA,GH,IA,NCSC,NCU-2,NY,UC); Torreya SP, *Godfrey 71513* (FSU). **MARION**: 1.6 mi N of S42, 0.7 mi W of jct S42 & S452, 10.3 mi NE of Weirsdale, *Baltzell 8650* (HAL); nr Anthony, *Wible 856* (CM) & *857* (A). **NASSAU**: N of Hilliard, *Hood 4433* (FLAS). **OKALOOSA**: Fred Gannon Rocky

Bayou State RA E of Niceville, T1S, R22W, S14, *Anderson 15006* (FSU); Eglin Field, *Goodrum 8* (FLAS); nr Valpariso, *Henry 1629* (PH). **PUTNAM**: Palatka, *Hood s.n.* (FLAS). **SAINT JOHNS**: 13 mi N of St. Augustine & 15 mi S of Jacksonville Beach off A1A, Guana R SP, T6S, R29E, S45, *Herring & Herring 127* (FLAS). **SANTA ROSA**: 4 mi NW of Holt, *Tyson 749* (FLAS). **SUWANNEE**: ca 0.5 mi NNW of jct I-75 and Fla 136, ca 16 mi NW of Lk City, *Pruski & Valliant 1783* (FLAS); E of Luraville, *West & Arnold s.n.* (FLAS); 7 mi N of Live Oak, *West & Arnold s.n.* (GA). **TAYLOR**: 8 mi W of Steinhatchee on St Rd 361, *Lagor 4625* (FSU). **WAKULLA**: Marshes Isl, *McDaniel 9386* (FLAS); St. Marks, [Rugel?] *hb. Shuttleworth s.n.* (BM). **WALTON**: Coffeen Nature Reserve E of Sandestin, E of Hwy 98, R21W, T2S, S34, *Anderson 12481* (FSU); Blue Mt Beach, 15 mi E of Destin, *Crawford s.n.* (AUA); 4 mi S of Freeport, *Davis & Davis 15382* (CM); Eglin Air Force Base, ca 10 mi E Niceville, *Ward et al. 6321* (FLAS).

GEORGIA. *hb. Beal 191* (MSC); *Cooley 11-10* (MSC); 1840, *Gray s.n.* (NY); Walton, *Ness s.n.* (TEAS); 1846, *Porter s.n.* (GA, GH,MICH,VSC); *hb. Shurtleff s.n.* (WECO). **BAKER**: ca 0.5 mi SE of DuBignon, *Kirkman 2167* (GA). **BALDWIN**: 7.4 mi S of jct hwy 129 on US 441, *Isley & Wemple 9388* (ISC). **BARROW**: 4.5 mi E of Winder, *Duncan 3554* (GA,IA). **BARTOW**: nr Cassville, *Bourdo 16782* (MSC); 3.25 mi S of Allatoona Dam, *Duncan 8411* (GA). **BROOKS**: 5.5 mi NNW of Quitman, *Faircloth 2012* (MO,NCU, VSC); 13.3 mi SE of Quitman, 0.3 mi N of Ochlawilla Church, *Faircloth 3359* (GA,MO,NCU,VSC). **BULLOCH**: ca 8 mi S of Statesboro nr Lower Lott's Cr Church, *Boole 1158* (GH-2, NCU); ca 8.5 mi S of Georgia Southern College off US 301 at Lower Lotts Cr Church, *O'Neal 27* (NCU). **BURKE**: Marl bluff on McBean Cr, NW of Miles Pond, 1.5 mi off Ga 56, *Bozeman & Logue 10850* (NCU); Sicad Church nr Idlewood, *Hood 1* (FLAS). **BUTTS**: Indian Springs SP, SE of Jackson on Hwy 42, *Howell 1665* (GA) & *15014* (USCH). **CALHOUN**: Holt, *Thorne 3867* (GA). **CAMDEN**: 6 mi E of Kingsland on GA 40, *Utech 86-941* (CM). **CARROLL**: Tyus Road,

Lovvorn s.n. (VSC). **CHATHAM**: Thunderbolt, *Crawford s.n.* (PH); 0.4 mi NW of Old Ogeechee Canal along Pembroke Rd, 13.8 mi W of Savannah City Hall, *Duncan 20890* (GA,KY, MISS,NCSC, NCU); Savannah, *Eddy s.n.* (MU); l.c., *Elliott s.n.* (GH); Argyle Isl, *Mellinger s.n.* (TENN). **CHEROKEE**: ca 3 mi W of Canton, *Duncan 8399* (MO); Jug Cr 2.5 mi N-77W of Canton, *Duncan 8557* (GA, MO); Knox Bridge on GA 20, *Foote s.n.* (GA). **CLARKE**: Memorial Park, Athens, *Davidson s.n.*(GA); Athens, *Garland 41* (GA); l.c., *Harper s.n.* (BM,NY); l.c., *Perry 910* (GH); l.c., *Pyron s.n.* (DUKE). **CLAY**: 5 mi N of Ft. Gaines on GA 39, *24 Moore 146* (AUA). **COBB**: Bert Adams Boy Scout Camp nr Vinings, *Dorsey s.n.* (GA); nr Chattahoochee R, *Harper 4* (BM,E,F,GH,MO,NY, US,W); Brusly Mt, *Isley 6802* (ISC); Kenesaw Mt, *Rhoades s.n.* (GH). **COFFEE**: 17 Mile Creek, *Norris 590* (FSU). **COLQUITT**: 6.5 mi W of Lenox, *Faircloth 3365* (VSC). **COLUMBIA**: Keg Cr, 3.6 mi W7°N of Clark Hill Dam, *Duncan 9738* (GA, MO); Rosemount Mt, 3.1 mi S31°W of Clark Hill Dam, *Duncan 10960* (GA). **CRAWFORD**: 1.1 mi W of Bryon City, *Moore et al. 1265* (GA). **DEKALB**: Decatur, *Carter 2423* (DUKE); Stone Mt, *Dress & Read 7447* (BM, E,M,WIS); l.c., 22 Jun 1897, *Eggert s.n.* (ISC) & 24 Jun 1897, *s.n.* (CM,F,MO-3,NY,OS,UC,US); l.c., *Hitchcock s.n.* (ILL-2); l.c., *Miller et al. 533* (MO,PH); l.c., *Moore 2159* (GA,TENN); l.c., *Ruth 300* (US); l.c., 4 Jul 1893, *Small s.n.* (F) & 7 Jul 1893, *s.n.* (F-2,G-2,GH, MO,NY,UC,US) & 6-12 Sep 1894, *s.n.* (NY,PH); l.c., *Smith 2366* (F,WIS); l.c., *Wiegand & Manning 1647* (GH); l.c., 16 mi NE of Atlanta, *Wurdack s.n.* (CM). **DODGE**: 4.8 mi S of Chauncey by Ga 165, *Bozeman 5448* (NCU). **DOUGHERTY**: Albany, *Frye s.n.* (WVA). **DOUGLAS**: ca 9 mi SW of Douglasville, *Koelling 1153* (ILL). **EARLY**: *Ford & Thorne 2762* (TENN). **ELBERT**: W of Elberton, S of Ga 72 & nr Broad R, *Coile & Coile 1072* (FLAS,GA, NCU); 1 mi W of Savannah R in Richard B. Russell Dam & Lk Area, *Credle et al. 936* (GA). **EVANS**: Training Area F-12, Ft Stewart MR, *Carter et al. 9765* (GA); l.c., *Zebryk et al. 0365* (GA). **FANNIN**: Blue Ridge Mt, *Smith 2457* (F). **FLOYD**: Rome, *Dorsey s.n.*

(GA); Mt Berry, *Jones 302* (GA); Rome, *Rhoades s.n.* (WIS). **FULTON**: nr McPherson Monument, Atlanta, *Barnhart 558* (NY); vic Atlanta, *Darby 54* (GA); 8 mi W of Atlanta, *Henry 4148* (GA,PH); College Park, *Schallert 4970* (S). **GILMER**: Rich Mt Wildlife Management Area, *Coile et al. 2934* (GA); btw Flat Cr Rd & hwy 283, *Medley & Medley s.n.* (KY). **GREENE**: 1 mi W of Union Point, *Duncan 11343* (GH). **GWINNETT**: vic Thompson Mills, *Allard 111* (F, GH, MO,NY,US) & *112* (US). **HABERSHAM**: vic Toccoa Falls, *Small s.n.* (F-2). **HALL**: 5.4 mi W5°N of Flowery Branch, *Duncan & Adams 18853* (FLAS,GA,UMO). **HARRIS**: Pine Mt, 4.8 mi N of Hamilton, *Duncan et al. 16752* (LSU); Dowell's Knob, Pine Mt., *Jones et al 20994* (GA). **HOUSTON**: ca 1.5 mi SE Wellston, *Ainsworth 44611.2* (PH); 6 mi SSW of Perry, *Duncan & Hardin 18148* (GA); Elko, *Guynn 192* (GA). **JASPER**: Monticello, *Porter s.n.* (NY, PH). **JEFF DAVIS**: NW of Appeling Co-1 along Bullard Cr, *Bozeman 9531* (NCU). **JEFFERSON**: vic Louisville, *Hopkins s.n.* (NY). **JONES**: Cedar Cr, *Campbell 13* (GA); Piedmont Nat. Wildlife Refuge, Round Oak-Juliette rd ca 0.13 mi E of Falling Cr, *Martin 1125* (FLAS). **LEE**: 2 mi SE of Bynes Crossroads, *Bryan s.n.* (VSC). **LONG**: 0.4 mi NW of Beard's Bluff, *Bozeman 1164* (GA); 1 mi S of Moody's Camp, *Bozeman 2937* (NCU). **LOWNDES**: 3.5 mi NW of Valdosta, along Withlacoochee R, *Greer s.n.* (VSC); G.S.W.C. campus, Valdosta, *Nevins 721B* (VSC 1421, non 1420); Howell-Mayday Rd, 5 mi W of Blanton, *Norsworthy s.n.* (ASU); 10 mi ESE of Valdosta, *Duncan & Quarterman 16727* (GA, VSC). **MACON**: 10.2 mi NWN of Montezuma, *Lane 3050* (MICH). **MADISON**: 4 mi from Colbert, *Coile 15* (GA). **MCINTOSH**: 2.7 mi NW of Cox on Ft Barrington Rd, *Bozeman 702* (NCU); *Bozeman 1039* (USF); *Duncan 20202* (GA); 15 mi N of Darien, *Godfrey 68553* (FSU); Sapelo Isl, *Hardin 190* (MICH); l.c., *Rankin 234* (AUA). **MERIWETHER**: 1.5 mi S of Warm Springs, *Henry 2215* (PH). **MITCHELL**: 0.2 mi E of Flint R off GA 37, *Bozeman 5214* (NCU) & *5229* (NCU). **MORGAN**: S of Madison, *Bright 4910* (CM) & *4911* (CM) & *4912* (CM); Lk Rutledge, Hard Labor Cr SP, 2 mi N of Rutledge, *Hill 512* (GA,KAN,NCU). **MONROE**: High Falls SP, *Howel 0360* (GA).

MURRAY: Ft Mt SP, *Hardin 267* (GA); Saddle Dike Overlook, Carters Reservoir on Coosawattee R, *Kral 50705* (GA,TENN). **MUSCOGEE:** Ft Benning MR, *Stutts & Stutts 477* (GA). **NEWTON:** nr Covington, *Conrad 4111* (ILL,UMO). **OGLETHORPE:** 7 mi N of Lexington, *Cronquist 4600* (GA-m,NY, US; non GH,MO); 9.3 mi N45°E of Lexington, *Montgomery 172* (FLAS,GA,PH); rd to Dillard, *Harbison et al. 2926* (GA,TENN). **RABUN:** Chattooga R Gorge, 1st Mt SW of Burrell's Ford, *DuMond 1519* (NCSC,G); 2 mi E of jct Hwy 23 & Co 70 on 70, *Massey & Massey 3648* (NCU); Clayton, *Reade E3477* (PENN); Tallulah Falls, *Reade E3478* (GA, PENN). **RICHMOND:** 4.5 mi S of Augusta, *Radford 591* (NCU). **ROCKDALE:** Big Haynes Cr, 6 mi SW of Logansville, *Pyron & McVaugh 564* (GA). **SPAULDING:** Pomona, *Riegel 168* (GA). **STEPHENS:** Currahee Mt, ca 5 mi SW of Tocca, *Pyron & McVaugh 605* (GA). **TALBOT:** 4.6 mi E of Geneva, *Duncan et al. 16778* (GA). **TATNALL:** 1.9 mi NW of Reidsville, *Ahles 54287* (NCU). **TIFT:** 5 mi NW of Tifton, *Duncan & Hardin 13665* (GA); 5.4 mi S of Tifton, *Faircloth 5344* (GA, VSC). **UNION:** Neel Gap on Appalachian Trail at jct US Hwy 19-129, *Strait 094* (AUA). **WALKER:** Zahnd Nat Area off GA 57, *Jones & Coile 24297* (GA). **WARE:** ca 3.5 mi N jct Co 23 & US 1, N of Satilla R, *Bozeman 3771* (NCU). **WARREN:** 3-4 mi S of Warrenton, *Harper 1112* (BM,PH). **WILKINSON:** 0.6 mi SE of McIntyre, *Duncan 11071* (FLAS,GA,IA,NCSC,TENN).

ILLINOIS. *Anonymous s.n.* (WIS). **ALEXANDER:** Wolf Creek, *Fantz 246* (NCSC). **GALLATIN:** Pounds, SW of Gibsonia, *Evers 11270* (SIU). **JACKSON:** Giant City SP, T11S, R1W, *Bailey & Swayne 104* (NCU); Little Grand Canyon, *Johnson 264* (SIU); Giant City SP, T11S, R1W, *Mohlenbrock 13500* (SIU). **JOHNSTON:** Ozark, *Benke 5241* (F, MICH); Parker, *Benke 5242* (F,GH,MO,US); 3 mi NW of Simpson, *Brady s.n.* (MO); nr Heron Pond, Scanlin Spur Hill Prairie, *White 404* (SIU); Draper's Bluff, *Wilson 1433* (SIU); Camp Pakentuck, 2.5 mi SE of Ozark, *Winterringer 1155* (ILL). **POPE:** Bell Smith Springs nr McCormick, *Ahles 8464* (ILL);

Jackson Hollow, *Bailey & Swayne 1255* (SIU); Herod, *Clinton 28799* (ILL); Bell Smith Springs SP, *Elias et al. s.n.* (SIU); Herod, *Hart s.n.* (UC); nr Rum Bluff, Lusk Creek, *Hopkins 651* (SIU); Jackson Hollow, *Mohlenbrock s.n.* (SIU); 3 mi E of Dixon Springs, *Winterringer 1347* (ILL). **PULASKI:** 1 mi E of Karnak, *Lane 1624* (ILL). **SALINE:** SE of Old Stone Face, *Wilson 2337* (SIU). **UNION:** rd to Bald Knob, T11S, R2W, *Bailey & Swayne 1477* (IA,SIU); Cobden, *Earle s.n.* (ILL); 2 Aug 1878, *Earle s.n.* (F); Allen's Flat, Pine Hills, *Fantz 280* (NCSC); *Forbes s.n.* (GH,MICH); nr Wolf Lake, *Fuller 834* (ILL); Pine Hill nr Wolf Lake, *Jones 12090* (ILL); Giant City, *Mohlenbrock 509* (SIU).

INDIANA. Salisbury, *Holmes s.n.* (NCSC,US). **CRAWFORD:** ca 3 mi SE Taswell, *Deam 63749* (NCSC); l.c., 2 mi E of Mifflin, *Friesner 19618* (WVU). **HARRISON:** State For, ca 12 mi SW of Corydon, *Deam 63729* (FLAS, NCSC); State For, *Friesner 19566* (MU,UC); l.c., 10 mi SW of Corydon, *Kriebel 10476* (DUKE, NCU). **LAWRENCE:** 2 mi SW of Bryantville, *Kriebel 2386* (DUKE). **PERRY:** ca 7 mi SE of Cannelton, ca 0.25 mi N of VanBuren Ridge School House, *Deam 33193* (GH-2). **SPENCER:** 2.5 mi S of Lincoln City, *Deam 41621* (GH).

KANSAS. CHEROKEE. 6 mi E of Baxter Springs, *McGregor 3847* (KAN).

KENTUCKY. Chamelson Springs, *Price s.n.* (MO-an illust.). **BELL:** Pine Mt SP, *Weller s.n.* (KY). **BREATHITT:** Robinson For, *Smith 1649* (NCU-2) & *Smith 1681* (KY). **CALLOWAY:** *Fleetwood s.n.* (DPU-2); NW of Concord, *O'Dell & Windler 670* (SIU); S of Almo, *Smith & Hodgdon 4182* (GH). **CHRISTIAN:** Pennyrile SP, *Lane 1615* (ILL). **CRITTENDON:** 1.5 mi SE of Crayne nr Hwy 91, *Hunter & Austin 1923* (NCU). **EDMONSON:** Mammoth Cave NP, *Braun 3559* (US); ca 1.5 mi W of Sweden, *Elmore 511* (NCU); Mammoth Cave NP, *Elmore 2372* (NCSC); l.c., ca 2.5 mi from Lincoln Elem. School, *Nicely & Elmore 2372* (NCSC). **ESTILL:** nr

Spout Spring, *Anderson s.n.* (IA); NE of Harg, *Wharton 3102* (KY, MICH). **FAYETTE**: Lexington, *Mearns s.n.* (US); cult. l.c., seed from Ga., *Short s.n.* (PH). **GARRARD**: Maywood Res Area, *Lassetter 2528* (MISS); Berea, *Wright s.n.* (MU). **GRAVES**: *Fleetwood s.n.* (DPU). **HARLAN**: Aug 1893, *Kearney s.n.* (F); Pine Mt, *Kearney 100* (E,F-2,G, GH,MO,MSC,NY,OS, S,US); l.c., *McFarland 49* (KY). **LAWRENCE**: 0.8 mi N of Lawrenceville, 1.0 mi N of Johnston Co-1, *Keil & Roberts 3875* (KY,OS). **LEE**: 8 mi W of Beatyville, *McFarland 37* (KY). **LETCHER**: Pine Mt, *Braun 292* (US).

LIVINGSTON: Lk City, *Athey 4146* (FSU); McGilligan Cr, 1 mi N of Mantle Rock, *Austin 673* (NCU). **LYON**: 3/4 mi E of 5D3 on KY 58, *Forrester 2515* (ISC, TENN); btw Birmingham & Eddyville, *Smith & Hodgdon 4223* (PH, PR,US); 0.5 mi E of marker 5D3 on Ky 58, *Woffard 1975* (NCU-2). **MADISON**: Burnt Bridge Ridge E of Berea, *Smith et al. 3642* (F,GH,NY,US-2). **MARSHALL**: 3.2 mi from Sharpe on Sharpe-Benton Rd, *Athey 2401* (CM,NCU); 2 mi E Benton, *O'Dell & Windler 1272* (SIU). **MCCREARY**: Daniel Boone NF, Nat Archway, *Browne & Browne 72H31.2* (NCU); nr Banner Ft., *Campbell s.n.* (KY). **MUHLENBERG**: Tooley Hill along Ky 181, *Conrad 290* (KY,NCU, TENN). **NELSON**: 5 mi NE of New Haven, *Wharton 5565* (KY,MICH). **POWELL**: Nat Bridge, *Anderson 44* (GH,IA); l.c., *Braun 59* (US); l.c., *MacFarland 311* (MO,S,US). **ROCKCASTLE**: btw Mt Vernon & Livingston, *Smith & Hodgdon 3724* (GH); S of Livingston, *Smith & Hodgdon 3748* (GH). **TRIGG**: 0.2 mi N of US 68 & Ky 453, *Ellis 13* (NCU). **WARREN**: 1 mi SE of Boiling Springs, *Conrad 244* (KY). **WHITLEY**: 4 mi E of Cumberland Falls, *Terrell 1260* (KY).

LOUISIANA. *Anonymous s.n.* (WIS); *Hale & Mead s.n.* (F); Pickering, *Sheley s.n.* (MO). **ALLEN**: W of Kinder on US 190 W of Calcasieu R., *Lievens et al. 1401* (FLAS, LSU); 6.1 mi ESE of Reeves on US 190, T6S, R6W, S25, *Vincent 4293* (NY). **BEAUREGARD**: Ludington, *Hester 522* (LSU). **BIENVILLE**: Williamson Cemetery, 1.5 mi E of Sailes, S34, *Lasseigne 1679* (DUKE,FLAS);

Driskill Mt, T33N, R5W, S17, *Moore 6254* (ASC,FLAS,GH, NCSC-2). **BOSSIER**: Eastgate Rd nr Hammon Lk, Barksdale AF Base, *Balogh 596* (ILL,NCU); Bodcau Lookout Tower, Bodcau Wildlife Management Area NE of Belleview, T20N, R11W, S28, *Thomas & Slaughter 107042* (NY-2). **CADDO**: vic Tiger Branch, ca 6 mi S of Vivian, *Lasseigne 1004* (GA); Spring Lk, *MacRoberts 479* (UNA); S of Shreveport, ca 4 mi ENE of Reisor, S34, *Thieret 26106* (FSU). **CALDWELL**: 1 mi W of LA 165 in Columbia, *Scarborough & Scarborough 515* (NCU). **CATAHOULA**: Cemetery 2.5 mi S of Duty Ferry, T10N, R5E, S1, *Thomas et al. 44782, 834* (VSC). **CLAIRBORNE**: Kisatchie NF, T23N, R4W, *Thomas & Hampster 137805* (TENN). **EAST FELICIANA**: LSU Idlewild Exp. Farm, T2S, R3E, S68, *Hoar 80* (LSU); Idlewild Res Sta E of LA #67, T5N, R2E, S46, *Urbatsch & Clay 3609* (LSU). **GRANT**: Southern Kisatchie NF, 3 mi SE of Williams, *Duncan & Blair 57060* (TEAS). **JACKSON**: 8 mi NE of Hodge, *Lasseigne 1640* (FSU); ca 0.5 mi SE of Chatham, T15N, R1W, S12, *Reid et al. 1440* (NCU). **LINCOLN**: Hwy 167, T19N, R2W, S23, *Moore 5211* (LSU); nr Ruston, *Palmer 27171* (MO). **LIVINGSTON**: Plainview, *McReynolds s.n.* (MO). **MOREHOUSE**: Bayou Bartholomew btw Jones & Bonita, *Thomas 14618* (CM); Spyker Estate SW of Bastrop & E of US 165, T20N, R5E, S7, *Thomas 120802* (KAN,MSC, TENN). **OUACHITA**: E of Monroe, *Thomas & Thomas 2777* (ISC); N Monroe off US 165, *Thomas 11383* (NCU); W Monroe, *Thomas et al. 23246* (TENN). **RAPIDES**: Old Seminary, *Featherman s.n.* (LSU); Camp Beauregard, Alexandria, *Leonard 1565* (US); E of U.S.V. Hospital, *Smith 11* (LSU); Pioga, nr Bailey Branch, *Smith 124* (LSU). **ST. HELENA**: ca 2 mi E of Greensburg, T2S, R6E, S53, *Allen 813* (LSU); ca 1.5 mi SE of Chipola, T2S, R4E, S63, *Allen 904* (FLAS,GA, LSU); 1.5 mi N of jct. LA 10 on LA 441, then E, T2S, R6E, S49, *Lievens & Gregory 1447* (LSU). **ST. TAMMANY**: Sulphur Springs, vic Covington, *Arsene 11754* (F); Covington, *Drummond s.n.* (BM). **TANGIPAHOA**: Ponchatoula, N of jct I-55 & US 551, *Zebryk 2373* (GA). **UNION**: 6.6 mi E of Shiloh on LA #2, *Isley et al. 10561* (ISC); US 167 at Big Cornie Bayou, T22N, R3W, S22, *Pyrah et al. 351*

(NY); N of Mt Union, ca 3.5 mi S of Lockhart & LA 3121, T23N, R2W, S22, *Thomas 96863* (FLAS,GA,MO,TENN). **WASHINGTON**: LSU Forestry Camp W of Bogalusa, *Brown 5649* (LSU); Bogalusa, T3N, R13E, S13, *Thomas & Mooreland 65872* (LSU). **WEBSTER**: nr gas line clearing, T22N, R9W, S27, *Moore & Moore 6126* (ASU, GH,NCU). **WEST FELICIANA**: 5 mi NNW of Jackson, T2S, R1W, S7, *Curry et al. s.n.* (LSU); 5 mi NNE of jct US 61 & 1st rd N of Thompson Creek Bridge, T3S, R1W, S71-72, *Lievens et al. 1330* (LSU). **WINN**: 4 mi E of Calvin, T11N, R3W, S6-7, *Thomas 143035* (TENN); ca 2 mi SE of Goldonna via LA 156, T12N, R5W, S28, *Urbatsch et al. 4515* (LSU).

MARYLAND. nr Widewater, *Belk 5612* (MU) & 5613 (MU); 1698, *Krieg s.n.* (E); 1797, *Hingston s.n.* (MPU). **ANNE ARUNDEL**: 1 Aug 1888, *Hauer s.n.* (ILL); *Plitt 848* (GH); Annapolis, *Read s.n.* (PH-m). **BALTIMORE**: nr Baltimore, 1866, *LeRoy s.n.* (NY-2). **CAROLINE**: Denton, *Seal s.n.* (PH); Tuckahoe SP, *Sipple 1725* (PH). **CECIL**: Gilpins Rocks, Jul 1884, *Carter s.n.* (PH); Elkton, *Seal s.n.* (CM,PH); 4 mi SE of North East, *Stiteler s.n.* (PH). **DORCHESTER**: Williamsburg, E Shore, *Morong s.n.* (NY). **MONTGOMERY**: Linden, *Benedict s.n.* (PENN); nr Cabin John, *Blake 9593* (G-2,GH); Great Falls, *Dowell 1562* (GH); 1.c., *Hermann 10384* (F); 1.c., *Hunnewell 5394* (GH); Plummer's Isl in Potomac R nr Cabin John, *Kearney & Maxon 36* (GH). **PRINCE GEORGE'S**: E of Riverdale, *Chase 3797* (ILL-2); *Hermann 11395* (GH,MO); ca 1.5 mi SE of Suitland, *Jones 1336* (GA); E Riverdale, *Muenschler 3746* (MO); upper Marlboro, *Robins s.n.* (WELC); Suitland, *Sargent s.n.* (GA, KAN,MIN,WVU). **QUEEN ANNE'S**: Chestertown, *Vanatta s.n.* (PH). **TALBOT**: E Wye R, 9.5 mi NNE of Easton, *Earle 1537* (PENN); 0.75 mi NW of Longwoods, *Earle 3767* (DUKE,GH, PH); Arcadia, *Shreve s.n.* (ARIZ). **WASHINGTON**: Williamsport, *Alcott s.n.* (A); Maryland Heights, Pennell 2411 (PH); Elk Ridge nr Keedysville, *Shreve s.n.* (ARIZ). **WICOMICO**: Salisbury, *Carter s.n.* (PH-2); nr Girdletown, *Henry s.n.* (CM); Salisbury, *Holmes s.n.* (NCSC,US). **WORCESTER**: Snow Hill,

Canby s.n. (NY); 1.7 mi NE of Pokomoke City via Rte 113, *Tatnall 943* (PENN, PH).

MISSISSIPPI. N Mississippi, *Brendel s.n.* (ILL). **ALCORN**: 9.5 mi SE of Corinth via hwy 72, *Pullen 70198* (MISS). **ATTALA**: 0.8 mi SE of Carroll-Attala Co-1 via hwy 35, *Pullen 69450* (MISS). **BENTON**: Holly Springs NF, *Pullen 67487* (MISS); 1.c., 1.8 mi N of Hickory Flat, *Temple 3276* (GA,MISS). **CALHOUN**: 0.5 mi W of Chickasaw-Calhoun Co-1 on hwy 8, *Pullen 66801* (MISS). **CARROLL**: 8 mi SE of Greenwood on Miss 430, *Temple 3415* (GA, MISS,NCU). **CHICKASAW**: 4 mi S of Hairston, *Ray 5195* (USF). **CLARKE**: Clark Co SP, *Jones 16467* (MISS). **CLAY**: Kilgore Hills, T15S, R3E, S7, *Rogers 45603* (TENN). **FRANKLIN**: Clear Springs RA, *Jones 10049* (MISS). **GRENADA**: Grenada Reservoir, Hugh White SP, *Temple 5714* (MISS). **HARRISON**: Gulf Coast Res Lab., Ocean Springs, *Demaree 28326* (GH); Gulfport, *Lloyd & Tracy 168* (NY); Cat Isl, *Lloyd & Tracy 178* (BM,NY-2, W); Ship Isl, *Miller 588* (NCU); Biloxi, *Tracy 1998* (CM) & 4846 (BM,E,G,MO,US, W); Chaudelaur Isl, *Tracy 4846* (NY: not F,MICH,MO,OS). **HOLMES**: Holmes Co SP, *Pullen 64724* (GA,MISS). **ITAWAMBA**: Fulton: *Partigan s.n.* (WIS); 1.7 mi W of Fulton on US #18, *Pullen 69435* (MISS). **JACKSON**: ca 2 mi E of Ocean Springs, *Diener 619* (ILL); Ocean Springs, *Earle s.n.* (MO); Magnolia SP, Ocean Springs, *Jones 17535* (DUKE,MISS,NCSC); Ocean Springs, *Seymour 9191.27* (DUKE); 1.c., *Seymour & Earle 91821.30* (DUKE). **JEFFERSON DAVIS**: 3 mi S of Carson, *Jones 6041* (MISS). **LAFAYETTE**: Oxford, *Bailey s.n.* (MISS); 1.c., So. For Exp. Sta, *Burke HB-51* (MISS); Oxford, 12 Jun 1913, *Lowe s.n.* (MISS) & 6 Jun 1914, *s.n.* (MISS-2); Clear Cr & Toby Tubby Cr, Sardis Lk, 9.6 mi NW of University, *Pullen 64801* (GA, MISS) & *Pullen 64802* (MISS-2); Piney Point on Sardis Lk, *Sartor 29* (MISS); rd to Puskus Lk, Tallohatchie NF, *Temple 2820* (MISS). **LAMAR**: 6.3 mi W of Hattiesburg, *Jones 3468* (MISS). **LAUDERDALE**: 3.5 mi W of Ala line & E of Lauderdale, *Jones 9101* (MISS,NCU); Mt Barton, Meridian, *Jones 12112* (MISS); 1 mi E Meehan jct Hwy 80, *Jones et al. 17679*

(FLAS,MISS-m). **LEAKE**: ca 5 mi S of Carthage, *Jones et al. 16909* (MISS); ca 1 mi N of Pearl R, S of Wiggins on hwy 13, *Jones et al. 18122* (MISS). **LEE**: Tombigbee SP, *Bishop 195* (MISS) & *203* (MISS); l.c., *Pullen 65108* (MISS,NCU) & *68476* (MISS). **LOWNDES**: Tibbee, *Donald s.n.* (WIS); Portook Ridge 9 mi E of State College, *Ray 4552* (USF-2). **MADISON**: 9.7 mi E of Canton on Miss. 17, *Isley et al. 10529* (ISC). **MARION**: btw Morgantown & Foxworth nr Pearl R, *Jones 12386* (MISS). **MARSHALL**: Wall Doxey SP, *Lassetter 274A* (MISS); l.c., *Pullen 64974* (MISS). **MONTGOMERY**: 5.1 mi E of Duck Hill via hwy 404, *Pullen 701006* (MISS). **NEWTON**: 4 mi N of Hero, *Jones 15628* (MISS). **NOXUBEE**: 1 mi W of Tombigee R, *Marler s.n.* (MISS); White House Mt, *Marler 9* (MISS). **OKTIBBEHA**: Starksville, *Tracy 191* (MSC). **PANOLA**: Tallahatchie R, *Eggert s.n.* (MO); 8 mi SW of Batesville via hwy 35, *Pullen 7097* (MISS); 2.8 mi W of Pleasant Grove via hwy 315, *Pullen 67637* (MISS) & 1 mi W of l.c., *68171* (MISS). **PEARL RIVER**: McNeill, *Reed 324* (KY). **PERRY**: nr Leaf R, Miles Branch RA W of New Augusta, *Jones & Jones 13052* (GA,MISS). **PIKE**: Percy Quinn SP, *Jones 9333* (MISS); l.c., 5 mi SW of McComb, *Jones & Jones 19549* (MISS). **PONTOTOC**: Trace SP, *Huneycutt & Floyd s.n.* (MISS); ca 2 mi. S of Pontotoc via hwy 15, *Pullen 69994* (MISS); ca 0.3 mi S of jct. 41-15 on hwy 15, *Temple 3028* (MISS). **PRENTISS**: 2 mi SW of Booneville, *Hubricht B1648* (FLAS,MO). **SCOTT**: Roosevelt SP at Morton, *Jones 19406* (MISS). **SIMPSON**: Magee, *Holt 9* (US). **SMITH**: Shongelo RA N of Raleigh, *Jones 8191* (MISS). **STONE**: Univ of Mississippi For Hdq, *Pullen 641021* (AUA, GA,MISS). **TIPPAH**: 8.8 mi E of Ripley via hwy 4, *Pullen 70937* (MISS). **TISHOMINGO**: Tishomingo SP, Jun 1936, *C.S.B. s.n.* (MISS); TVA Yellow Cr Site, Bee Mt, T1S, R16W, *Boner & Ratledge s.n.* (TENN); mouth Mill Cr, trib. Bear Cr, NE of Iuka, *Coleman s.n.* (FLAS); Goat Isl, *Coleman 48453* (TENN); 22 mi NW of Iuka, *Ray 6301* (USF); above Bear Cr, Tishomingo SP, *Ray 6397* (GH,NCU); l.c., *Searcy 555* (MISS); l.c., *Temple 3927* (MISS). **UNION**: Ben Hall Bluff E of Martintown Rd, W of hwy 15, *Huneycutt*

et al. s.n. (MISS); *Speck 207* (MISS). **WEBSTER**: 2.2 mi SE of Bellfontaine on Miss. 9, *Temple 5422* (GA, MISS). **WINSTON**: Nanih Waiya SP SSE of Louisville, *Jones et al. 18184* (MISS). **YAZOO**: vic jct Miss. 463 & Miss. 22, *Rogers 45266* (TENN).

MISSOURI. E Fork, Black R, *Rickett s.n.* (UMO). **BOLLINGER**: Fears Bluff at Mingo Swamp, T28N, R9E, S16, *Steyermark 77718* (UMO). **BUTLER**: Popular Bluff, *Eby s.n.* (MO); l.c., *Savage & Stull s.n.* (GA) & *1259* (F) & *1260* (IA). **CARTER**: *Fritchley s.n.* (MO); Van Buren, *Meebold 25302* (M); 2.5 mi SE of Van Buren, S29, R1E, T27N, *Redfearn 12731* (FSU). **DOUGLAS**: Hunter Branch at Bryant Cr, vic Vera Cruz, T26N, R14W, S20-21, *Redfearn 8593* (FSU); Bryant Cr trib. SE of Sweden, *Steyermark 14726* (MO, UMO); Spring Cr nr Roosevelt, T25N,R11W,S23, *Steyermark 23308* (F,M,P). **DUNKLIN**: Campbell, *Anonymous s.n.* (TENN); l.c., *Cunningham s.n.* (MO,UMO). **HOWELL**: Indian Cr, T27N, R10W, *Summers 751* (MO); "County Hollow" 5 mi NE of Peace Valley, *Steyermark 14465* (MO); Noblette Cr 4 mi SW of CCC Camp F-6, T26N, R11W, S25, *Steyermark 20064* (MO). **IRON**: Pilot Knob, *Englemann s.n.* (MO); l.c., *Glatfelter s.n.* (MO-2); l.c., *Palmer 18092* (MO). **MADISON**: Mine La Motte, *Eggert s.n.* (MO). **MCDONALD**: *Bush 46* (F,GH,MO, NY,UC, US); Noel, *Bush 4990* (GH,ILL, MO,NY,US); Indian Springs, *Palmer 60678-A* (NCSC,UMO, WIS); 0.5 m N of Powell, *Palmer 60946* (MISS,UMO); Miles Cr, 1 mi E of Powell, *Palmer 63419* (GA,UMO-4,WIS); Kings Cr ca 0.25 mi N of Powell, T22N, R30W, S16, *Redfearn 10588* (FSU,NCSC, UMO); Arch Cr Hollow, 5.5 mi S of Powell, T21N, R31W, S17, *Steyermark 65165* (F). **NEWTON**: Reddings Mill, *Bush 5201* (MO); l.c., 14 Jul 27, *Kellogg 985* (MO) & 14 Jul 28, *s.n.* (MO); 1 mi S of Joplin, *Palmer 1505* (MO); Shoal Cr nr Reddings Mill, *Palmer 32487* (G,GH,MO-2,NY,UMO). **OREGON**: White Cr Valley from Fidler Spring, 3.5-4 mi S of Wilderness, *Steyermark 5416* (F). **PEMISCOT**: Hayti, *Rankin s.n.* (UMO). **REYNOLDS**: Johnson's Shut-Ins SP, *Nickrent & Nelson 957* (MU); Hwy 21, *Rickett s.n.* (UMO); S end of Tom Sauk MT SW of Munger, *Steyermark 4870* (F). **RIP-**

LEY: nr Tunnel Bluff, Current R, 8 mi W of Grandin, *Steyermark 20517* (MO). **ST. GENEVIERE:** Jonca Cr, T36N, R7E, S9-10, *Taylor 413* (SIU). **ST. LOUIS:** cult., Mo. Botanical Gardens, St. Louis, *Kellogg s.n.* (MO); Allenton, *Letterman s.n.* (MO). **SHANNON:** Monteer, *Bush 11423* (G,MO, US,UMO); 2 mi N of Emminence, *W.B.D. s.n.* (UMO); 2 Jul 1886, *Eggert s.n.* (MO); Jam up on Jack's Fork, *Kellogg s.n.* (MO); Jack's Fork, *Kellogg 25728* (DUKE); "shut-ins," Round Mt, 3 mi SW of Midridge, *Steyermark 20165* (MO). **STODDARD:** Crowley's Ridge, ca 3.5 mi SE of Bloomfield, *Marvin 477* (MO); Crowleys Ridge, 1 mi N of Ardeola, *Steyermark 20778* (MO); Rock Knob S of Club Cr, 2.5 mi N of Acorn Ridge, T27N, R9E, S26, *Steyermark 76686* (ILL). **STONE:** Marvel Cave, *Trelease 1007* (MO). **TEXAS:** Houston, *Emig 148* (MO). **WAYNE:** Clark Mt, *Russell s.n.* (MO); Valley of Mill Cr, 1.5 mi SW of Wappapello, T26N, R7E, S4, *Steyermark 6226* (F,MO); St. Francis R just SE of mouth Redman Cr, 0.75 mi SW of Wappapello, T26N, R7E, S3, *Steyermark 6493* (F).

NEW JERSEY. *Green s.n.* (CGE); Little Snake Hill, *Leggett s.n.* (NY); Pine barrens, *hb. Lindley s.n.* (CGE); 1834, *Torrey s.n.* (E, NY,PH); Jun, *hb. Tuckermann s.n.* (G). **ATLANTIC:** Hammanton, *Bassett s.n.* (PH); via Hammonton ad Asion, *Brinton s.n.* (PH); Hammanton, 10 Jul 91, *Crawford s.n.* (F) & 17 Aug 92, *s.n.* (PH); 1.c., Sep 1892, *Keller s.n.* (PH-2). **CAPE MAY:** Cape May Court House, *Brown s.n.* (PH); W Cape May, 22 Jul 1919, *Brown s.n.* (PH) & 10 Jul 1923, *s.n.* (PENN) & 24 Jul 1924, *s.n.* (PENN); 1.c., Race Course, 10 Sep 1917, *Brown s.n.* (PH); N branch of Pond Creek, Cold Spring, *Brown s.n.* (PH); 1 mi W of Wildwood Jct, *Brown s.n.* (PH); W Cape May, *Brown 393* (GH) & *10735* (USF); Goshen, *Driesbach 3805* (MICH,PH); Bennett, *Eckfeldt s.n.* (PENN); Cape May, *Leeds 1450* (PH); W Cape May, *Long 23545* (GH,NY); nr Sharp's Branch, ca 3 mi N of Hunter's Mill, *Long 47348* (PH); W Cape May, *MacKenzie s.n.* (DUKE); E Lily Lk, Cape May Point, *Stone s.n.* (PH); Cape May Court House, *Stone*

11748 (PENN); Lily Lk, Cape May Point, *Stone 15676* (GH, PENN-2,PH); 1.c., *Tullner s.n.* (PH); Cape May Court House, *Van Pelt s.n.* (PH); Anglesea, 21 Sep 1902, *Van Pelt s.n.* (PH) & 23 Jul 1904, *Van Pelt s.n.* (PH). **CUMBERLAND:** W of Cumberland Furnace, Maurice R Township, *Moore s.n.* (PH). **OCEAN:** Toms R, *Anonymous s.n.* (NY); 1.c., 1833, *Gray s.n.* (GH).

NEW YORK. *Hb. Austin s.n.* (NY); 1843, *Torrey s.n.* (G,GH,MO,NY-2,US).

NORTH CAROLINA. in mountains, *Ashe s.n.* (NY); SE NC, *Ashe s.n.* (OS); *Hb. Brendel s.n.* (ILL-2); *Curtis s.n.* (NY); *Curtiss s.n.* (MO,PH); nr Big Willow, *Hood 87* (FLAS); Warm Springs, *Kelsey s.n.* (MU); Aug 1891, *Kofoid s.n.* (MU); Brockland, *Nieuwland 11371* (MO). **ALAMANCE:** 0.5 mi S jct NC49 & 119 on NC 119, *Ahles & Bell 16937* (NCU). **ALEXANDER:** Rocky Face Mt., 2.5 mi NW of Vashti, *Downs 401* (NCSC); Rocky Face Mt., Hiddenite, *Keever 411* (DUKE); Rocky Face Mt, *Radford & Stewart 1347* (NCU) & *1644* (NCU). **ANSON:** 4 mi N of Ansonville, *Boyer 1113* (NCSC); 7 mi N of Wadesboro on Hwy 742, *Boyer 1062* (NCSC); Gordon Mt Fire Tower, *Boyer 1090* (NCSC); 1.5 mi W of Lilesville nr US 74, *Radford 13491* (NCU,US). **BEAUFORT:** 1.1 mi ESE Yemassee on Co Rte 33, *Ahles & Bell 15552* (NCU); Live Oak Trail, Goose Creek SP, *Corda 20* (NCSC); Pontego Cr W of Belhaven, *Fox 4967* (NCSC); 0.3 mi S of Rd 33 on Rd 306, *Hartshorn 292* (NCSC). **BERTIE:** 2.6 mi S of Merry Hill, *Ahles & Duke 46205* (NCU). **BLADEN:** 1.1 mi S of Tarheel on NC 131, *Ahles & Haesloop 29162* (NCU); 5 mi N of White Lk, *Blomquist 13932* (DUKE); White Lk, *Fox et al. 1694* (NCSC); Suggs Mill Pond Bay, *Melvin 3603* (VSC); ca 6 mi S of Rosebay on Rte 242, *Wilbur 5925* (DUKE). **BRUNSWICK:** ca 3.5 mi N of Town Cr by NC 130, *Bell 13155* (NCU); 0.5 mi W of Seaside, *Fox 2827* (NCSC); Long Beach, *Wilbur 6966* (DUKE,MICH, UC). **BUNCOMBE:** Black Mt, *Goodrich s.n.* (MICH); Lutheridge, Arden, *Mullen 509* (NCSC); Bush Cr, *Peattie 864* (NCU); Asheville, *Robinson 72* (GH); 1.c.,

Taylor s.n. (F); Weaverville, *Teague s.n.* (DUKE). **BURKE**: 8 mi from NC 181, *Radford 2542* (NCU); Little R, *Smith 255* (NCSC); ca 15 mi NW of Morgantown on Rte 181, *Wilbur 4933* (GA, NCSC). **CALDWELL**: 3.5 mi E of Oak Hill nr NC 90, *Radford 15064* (NCU). **CARTERET**: 3 mi SW of Morehead City on NC 24, *David 13* (DUKE); N of Newport, *Hill 100* (DUKE); Bogue Bank, 8 mi W of Atlantic Beach, *Phipps et al. 3707* (NCU). **CASWELL**: 0.8 mi W of Prospect Hill, *Bell 13862* (NCU); E of Yanceyville, *Oosting 33394* (DUKE). **CATAWBA**: nr Sherrill's Ford, *Correll 2820* (DUKE); N of Hickory, *Small & Heller s.n.* (F). **CHATHAM**: ca 1 mi above jct with Deep R on Rocky R, *Beard 1145* (NCU) & *1191* (AUA); White Pines Nat Area, *Swab 437* (NCSC) & *456* (NCSC, NY) & *Swab 789* (NCSC). **CLAY**: Hayesville, *Anonymous X4* (NY). **CHEROKEE**: SW Cherokee Co., *Correll 3627* (DUKE); Cherokee Reservation, Qualla, *Mooney s.n.* (US-2); ca 3 mi NE of Mury on Rte 19, *Wilbur 4624* (NCSC). **CHOWAN**: 1.6 mi E of Chowan-Bertie Co-1 on US 17, *Ahles & Duke 44011* (NCU); ca 4 mi W of Edenton on Rte 17, *Wilbur 3817* (GA,NCSC). **COLUMBUS**: Ortow-Wilmington Rd., *H.L.B. s.n.* (DUKE). **CRAVEN**: New Bern, *Loomis & Croom s.n.* (PH); 4 mi E of Havelock nr NC 101, *Radford 37522* (NCU); White Pines Nat Area, *Swab 456* (NCSC) & *789* (NCSC); 7 mi SE of Vanceboro, *Ulmer s.n.* (DUKE); ca 3 mi E of New Bern on Rte 55 to Bayboro, *Wilbur 4072* (NCSC). **CUMBERLAND**: 1.4 mi SW of Fayetteville, 4 mi ENE of Cumberland, *Ahles & Haesloop 29694* (NCU); Fayetteville, *Buker s.n.* (CM); 0.5 mi S of Rockfish Cr S of Fayetteville, *Fox & Godfrey 2387* (ILL, MICH,NCSC,NY); Ft Bragg MR, *Keil K11696* (ASU); 3 mi W of Fayetteville, *Knox s.n.* (LA,WTU); ca 8 mi NW of Rte 242 on Rte 210, *Wilbur 49401* (DUKE). **CURRITUCK**: 1.9 mi S of Manir on US 158, *Ahles & Duke 44472* (NCU). **DARE**: Nagshead For, *Burk et al. b56-16* (NCU); Kitty Hawk, *Fox 4155* (NCSC); Ft Raleigh, Roanoke Isl, *Schallert 4970* (S). **DAVIDSON**: 0.5 mi E of Yadkin R via US Rte 70, *Fox & Godfrey 3133* (GA,IA, KANU,NCSC,TENN,UC,US,WVU); RR, Lexington nr US 29, *Radford 12906* (NCU). **DAVIE**: W of Mocks-

ville, *Rogers 120* (DUKE). **DUPLIN**: 3 mi N of Scotts Store & 3.2 mi WNW, *Ahles & Haesloop 28406* (NCU,SIU). **DURHAM**: ca 1.7 mi N of Weaver, N of Durham, *Ahles & Haesloop 58072* (NCU); i.c., *Ahles & Sears 59962* (NCU); Crows Nest, Duke For, *Blomquist s.n.* (F,MU,PENN,PH); Eno Power Station, Eno, *Dumond 192* (NCSC); Hill For, Renfro 1 (NCSC); 0.1 mi N of Eno R jct with SR 1104, Durham, *Slapcinsky 577* (NCSC); nr Durham, *Strickland s.n.* (WVU); Eno R bluffs N of Catsburg, 5 mi NE of Durham, *Wilbur 9098* (DUKE); Hill For of NC State Univ., 1.5 mi E of Quail Roost on NC 1614, *Wilbur 49143* (DUKE); 1 mi W of Bohana, ca 14 mi N of Durham on Rte 501, *Wilbur 49154* (DUKE); Hill For, 1.5 mi E of Quail Roost on NC 1614, *Wilbur 49564* (DUKE); nr Sand Cr ca 1 mi S Duke Stadium, *Woodbury 111* (MO). **EDGEcombe**: nr Pine-tops, *Correll 2450A* (DUKE) & *2459* (DUKE); 8 mi E Rocky Mt, *Fox & Godfrey 2364* (FLAS,GA,ISC, NCSC,TENN); 0.5 mi S of Macclesfield, *Radford 36784* (NCU); 2 mi W of Old Sparta, *Randolph & Randolph 746* (GH); ca 9 mi NW of Leggett on Rte 44, *Wilbur 3876* (NCSC). **FORSYTH**: 3.3 mi NE of Donaha, *Ahles & Duke 45409* (NCU); Winston-Salem, 2 Jul 1925, *Schallert s.n.* (ISC) & 15 Jun 40, *Schallert s.n.* (MO) & 20 May 41, *Schallert s.n.* (NY,UC); Salem, *Schweinitz s.n.* (PH-2). **FRANKLIN**: 0.6 mi W of Franklinton on NC 56, *Ahles & Leisner 16313* (NCU); Baker Outcrop off US 401, ca 1 mi N Harris Crossroads, *Averett 86* (NCSC); 8 mi S of Louisburg on NC 59, *Fox 4840* (NCSC); jct SR 1201 & SR 1625, *Ingle 1762* (NCSC); 2 mi E of New Hope on Rte 98, *Mueller s.n.* (WIS-m); Overton Rock, 0.7 mi S of Stallings Crossroads, *Palmer 125* (NCSC). **GASTON**: Spencer Mt, 1 mi S of town Spencer Mt, *Ahles & Leisner 14997* (C,NCU); ca 5.5 mi S of High Shoals on Rte 321, *Wilbur 4495* (GA,NCSC). **GATES**: 1.8 mi SSE of Gatesville, *Ahles & Duke 44642A* (NCU); Wyanolu, *Ahles & Horton 53073A* (NCU); nr Roduco, *Correll & Oosting 2247* (GH-m, NY). **GRAHAM**: Joyce Kilmer Memorial For, *Oosting 2528* (DUKE); 7.5 mi W of Robbinsville nr US 129, *Radford 14101* (NCU); US 129 nr Cheoah Cr, 5 mi SE of Tapoco, *Radford 15923* (S-m). **GRANVILLE**: 0.5 mi W & 2 mi N of Hester, *Ahles & Leisner*

17505 (NCU); Camp Butner, *Batson* 987 (DUKE); Creedmoor, *Buell* 1422 (NCSC); 1.6 km W of SR 1629-1625 jct., *Ingle* 1549 (NCSC); Camp Butner, *Patton* 145 (DUKE); Butner, *Slapcinsky* 361 (F); NW of Butner on Co rd 1126, *Taylor* 1628 (DUKE). **GREENE**: 1.6 mi SSW of Walstonburg, *Radford* 36573 (NCU). **GUILFORD**: *Causey s.n.* (NCU); Greensboro, *Ennis s.n.* (NY); l.c., *Wright* 146 (CM). **HALIFAX**: Halifax, *Ahles & Leisner* 17087 (NCU); Enfield, *Prior s.n.* (GA); Weldon, *Canby s.n.* (NY); 13 mi N of Halifax, *Fox & Godfrey* 2762 (NCSC); Halifax, *hb. MacElwee s.n.* (PH); l.c., Jul 1894, *Williamson s.n.* (PH) & Aug 94, *s.n.* (PH) & Jul 85, *Williamson s.n.* (UC). **HARNETT**: 0.25 mi S of Pineview on Rte 67, *Channell & Rock* 38 (GH-m); Coats-Erwin, *Correll* 2540 (DUKE); 18 mi S of Sanford on NC 87, *Duke* 1154 (ASU); 0.4 mi N of Cumberland Co-1 on NC 87, *Duke* 1706 (CM); Lillington, *Godfrey s.n.* (FLAS); nr Erwin, *Godfrey* 4252 (GH); Raven Rock SP, *Jones* 320 (NCSC); 4.2 mi E of Lee Co-1 on US 421, *Laing* 1372 (OSC); 1.3 mi SE of Stout Springs on NC 87, *Laing* 1475 (NCU); Lillington, *Rock* 469 (NCSC); 0.5 mi S of Olivia on Rte 87, *Wilbur* 10447 (DUKE). **HAYWOOD**: 2.2 mi N of Lk Junaluska on NC 209, *Ahles & Duke* 46557 (NCU). **HENDERSON**: Camp Arrowhead, 3 mi W of Tuxedo, *Adams s.n.* (GA,NCSC); Henderson, *Campbell s.n.* (NCU); 2 mi W of Tuxedo on Green R Rd, *Fox* 5309 (NCSC, TENN); S slope Long John Mt, *Goodrich s.n.* (MICH); Flat Rock, *Memminger s.n.* (NCU). **HERTFORD**: Potecas Cr, 4.7 mi N of St. John on Murfreesboro Rd, *Ahles & Duke* 45844 (MICH,NCU); 2 mi N of Murfreesboro, *Fox & Godfrey* 2785 (NCSC); ca 7.5 mi E of Murfreesboro on Rte 158 to Winston, *Wilbur* 3795 (GA,NCSC); Bigwoods Exp. For, *Woods* BW052 (NCSC). **HOKE**: 2.8 mi SSW of Ashley Heights, *Ahles & Haesloop* 29429 (NCU); Ft Bragg MR, ca 8-9 mi E of Southern Pine, *Wilbur* 55747 (DUKE); ca 5.5 mi NW of Raeford on NC 211, *Wilbur* 61110 (DUKE). **HYDE**: 1.2 mi WSW of Scranton, *Radford* 39050 (NCU); 15 mi W of Swanquarter, *Wiegard & Manning* 1642 (GH). **IREDELL**: 1 mi S of Patterson Cr on NC 115, then 0.7 mi WSW, *Ahles & Duke* 45187 (NCU); States-

ville, *Hyams s.n.* (ISC,MIN,OS); ca 0.5 mi NW of Harmony on Rte 401, *Wilbur* 4327 (NCSC). **JACKSON**: Cashier's Valley, *Boltwood s.n.* (WIS); l.c., *hb. Dunham s.n.* (F); 2 mi W Cashiers, *Hardin* 212 (MICH); Cullowhee, *Thaxter s.n.* (GH,US). **JOHNSTON**: 2 mi SE of Wendell nr NC 231, *Radford* 25155 (NCU); ca 18.5 mi SW of Newton on Rte 10 & ca 1.5 mi NE of jct Rte 18, *Wilbur* 4385 (NCSC). **JONES**: E of jct of Trent R & Isl Cr, 5 mi NE of Pollacksville, *Sears* C324 (NCU) and Co 1004 jct with Isl Cr, C329 (NCU). **LEE**: Deep R Basin, W from Patterson's Cr, *Kessler* 406 (FLAS, NCU). **LENOIR**: 1.7 mi WSW of Deep Run, *Radford* 31639 (NCU). **LINCOLN**: Lincolnton, *Carpenter* 223 (NY). **MACON**: Franklin, *H.B.L.* 3902 (DUKE); SW slope of Polly Mt., Chattoogna R Gorge, *DuMond* 1462 (NCSC); 5.5 mi S of Highlands on Walhalla Rd, *Quarterman* 974 (DUKE); Cullasaja George nr High Falls, *Schofield & Schofield* 9236 (DUKE). **MADISON**: Asheville, 1 Aug 1890, *Anonymous s.n.* (C); 1 mi W of Hot Springs on US 25-70, *Ahles & Duke* 46474 (MISS); Rd S of Paint Cr Campground, *Churchill* 84174 (MSC) & 84222 (MSC); 2 mi SE of Point Cr on French Broad R, *Radford & Haesloop* 7278 (NCU); 4 mi S of Hot springs, *Oosting* 34315 (DUKE); Shut-in Cr, 4 mi W of Hot Springs, *Oosting* 35310 (WVU); Hot Springs Valley off CR 1304 at Point Rock, *Sather* 1928 (NCU). **MCDOWELL**: 4.3 mi N of McDowell-Rutherford Co-1 on US 221, *Ahles & Bell* 17803 (NCU); nr Woodlawn, *Hunnewell* 12844 (GH). **MECKLENBERG**: along Catawba R just S of US 29-74, *Ahles & Duke* 44919 (NCU,UC); Lakewood Park, Charlotte, *Correll* 3023 (DUKE,GH). **MONTGOMERY**: 0.8 mi S of Davidson-Montgomery Co-1 on rd nrYadkin R, *Ahles & Haesloop* 57300 (NCU); Dam Jeep rd, Badin Quad., Uhwarrie Nat. For, *Wright* GOS 6-166 (NCSC). **MOORE**: 1897, *Ashe s.n.* (NCU); Southern Pines, *Besquert s.n.* (GH); 8 mi E of Lakeview, *Fox* 2892 (NCSC); Pine Bluff, *Knife* 1963 (CM); Crystal Lk, Lakeview, *Rogers* 163 (DUKE); nr Pinehurts, *R.E.W. s.n.* (NCU); 3 mi E of Southern Pines, *Woods s.n.* (NCSC). **NASH**: Red Broad Cr, N of Castalia, *Ahles & Bell* 16799 (NCU); 0.5 mi E of Moccasaw Cr on US 264, *Oosting* 35553 (DUKE). **NEW HANOVER**: Wrightsville,

Ahles & McCrary 58818 (NCU); *Bell 12959* (NCU); Carolina Beach, *Godfrey 4626* (GH,US); Wilmington, *MacFarlane s.n.* (PENN); 0.5 mi S of the Pender Co-1, 15 mi S of Wards Corner, *Wilbur 6149* (DUKE). **NORTHAMPTON**: S of SR 1214, 0.9 km W of jct SR 1214 & SR 1217, *Ingle 1471* (NCSC). **ONSLow**: Queen Cr 0.4 mi S of Starling, *Ahles & Haesloop 28278* (NCU); Bear Inlet, *Harris C19549* (DUKE,MIN,US). **ORANGE**: Laurel Hill, Duke For, *Elder 93* (DUKE); nr Chapel Hill via hwy 15, *LeClair s.n.* (NCU); UNC Campus, Chapel Hill, *Margolis s.n.* (NCU); I.c., NCU Stadium, *Scholz s.n.* (NCU); I.c., tennis courts, *Scholz s.n.*(NCU); S Carboro along old Pittsboro Rd, *Thomas 102* (CM); Duke For, 7 mi WNW Duke Univ., *Welch s.n.* (NCSC) & *L151* (NCSC); New Hope Cr, Duke For, *Wilbur 40703* (DUKE); Duke For off Rte 1723, ca 3 mi SE of Hillsborough, *Wilbur 50476* (DUKE). **PAMLICO**: 5 mi S of Oriental, *Blomquist 14035* (DUKE); 2 mi SW of Arapahoe, *Godfrey 48341* (NCSC); Arapahoe, *Oosting 33223* (DUKE); 2 mi E of Olympia nr NC 55, *Radford 35924* (NCU); ca 5 mi W of Oriental at Janeiro, *Wilbur 4042* (FSU,GA,NCSC); ca 3 mi N of Arapahoe or 5 mi S of Grantsboro on Rte 306, *Wilbur 4058* (NCSC). **PASQUO-TANK**: Eilzabeth City, *Coker & Braxton s.n.* (NCU). **PENDER**: 0.8 mi NE of New Hanover-Pender Co-1 on US 17, SW of Hampstead, *Ahles & Haesloop 27934* (NCU); 3.2 km & 4.0 W of Maple Hill, *Churchill 89137* (FLAS); Moores Cr Nat. Military Park, *Sieren 2544* (ILL). **PERSON**: Flat R, Hwy 50, *Bowmer 218* (NCU); I.c., *Duke 297* (NCU); W of 1573, 0.5 mi S of jct 1536, *Wickland 1394* (NCU). **PITT**: 3 mi NE of Grimesland, *Radford 35051* (NCU). **POLK**: Tryon, *Peattie 814* (NCU); Tryon, Columbus, 23 Jun 1897, *Townsend s.n.* (WTU) & 26 Jun 97, *s.n.* (US). **RANDOLPH**: ca 8 mi W of Asheboro, *Bell 14187* (NCU); W of Ashboro, *Oosting 2465* (DUKE). **RICHMOND**: Hamlet, *Biltmore 161b* (NY,US); Chalk Cr E of Rockingham, *Correll 1091* (DUKE); 3.5 mi NE of Hoffman at Camp Mackall, *Radford 14383* (NCU,TENN). **ROBESON**: 2.5 mi S of Red Springs on NC 710, *Ahles & Haesloop 28920* (NCU); 2 mi W of Fair Bluff Rd, *Hardin 2399* (GH,NCSC). **ROCKINGHAM**: *Ful-*

cher 1 (NCU); 3 mi N of Eden, *Fulcher 365* (NCU). **ROWAN**: Salisbury, *Fiss s.n.* (PENN); Salisbury, *Heller 36* (MO,NY,PH); Faith, *Heller 14003* (G,MO,WTU); Dunns Mt 4.0 mi SE of Salisbury, *Horton 1445* (NCU); Faith, *Mullen 479* (NCSC); Dunn's Mt ca 5 mi SE of Salisbury, *Wilbur 4435* (NCSC). **RUTHERFORD**: Lk Lure, *Fox & Godfrey 2966* (NCSC). **SAMPSON**: 1.4 mi W of Clement & 1.2 mi S, *Ahles & Haesloop 30062* (NCU); 5 mi W of Clinton, *Godfrey 4500* (GH,US); 6 mi S of Dunn, *Hood 75* (UC); I.c., *Rogers 196* (DUKE). **SCOTLAND**: 2.5 mi S of Hoke-Scotland Co-1 on US 15-501, *Ahles & Haesloop 28621* (NCU); NE of Laurel Hill, *Duke 1681* (NY); 5 mi NE of Laurinburg, *Godfrey 4584* (GH,US). **STANDLY**: 1 mi S of New London on US 52, *Ahles & Leisner 16109* (NCU). **STOKES**: NNW slope to Indian Cr, Hanging Rock SP, *McCardy 540* (NCU); 6 mi NW of Madison on Rte 704, *Wilbur 4231* (NCSC). **SURREY**: Pilot Mt., *Williams 223* (DUKE). **SWAIN**: Aug 1890, *Beardslee s.n.* (MU) & 26 Jul 91, *Beardslee s.n.* (PENN); Great Smokey Mts, *Beardslee & Kofoid s.n.* (CM,GH, MICH,MIN,MO,MU, NCSC,NY, PH); I.c., Cherokee Indian Reservation, Pine Hill above Whitter's Platform in Bryson City, *Cain s.n.* (BM,NY, TENN-2,US,WIS); Bushnell, *Correll 3766* (DUKE); Bryson City, *Hunnewell 10395* (WELC) & *10396* (WELC). **TRANSYLVANIA**: Taxaway R Gorge, *Cooper 2328* (NCSC); Bearwalker Gorge, *Mawbray s.n.* (DUKE); Taxaway Gorge, *Oosting 36130* (DUKE); Thompson R Rorge, 10 mi Sw of Rasnar, *Racine 418* (DUKE); Horsepasture Gorge, Bear Camp, *Rodgers 62031a* (NCU) & *63201b* (DUKE). **UNION**: 1.2 mi W of New Salem, *Ahles & Haesloop 27672* (GH). **VANCE**: Ruin Cr on US Rte 158A ca 4 mi SW of Henderson, *Ahles & Leisner 17319* (NCU,W). **WAKE**: Raleigh, *Anonymous s.n.* (NY); I.c., *Alexander s.n.* (UC); I.c., Bloomsbury Park, *CSB s.n.* (NCSC); Raleigh, Methodist Orphanage Woods, *CSB s.n.* (NCSC); Raleigh, *Coit 1236* (NCSC); Carl Alvin Schenck Dem. For W of Raleigh, *Fantz 4323* (CAL,KUN, MEXU,MIN, WTU) & *5867* (BM,CR,DUKE, ENCB,IJ, MEXU,OSC,P) & *5907* (GA) & *5973* (FLAS, ILL,KANU, MISS,NCSC,PH,TEX,SASK, UMO, USCH, WVA) & *6188* (AUA,CM,F,FSU,GH,IA,ISC,LSU,

MICH,MIN, MSC, NCSC,NY,TAES, TENN,UC,US,VPI); rd to Temple Flat Rock N of Raleigh, *Fantz 6468* (MISS, NCSC,SASK); Raleigh, *Godfrey 4616* (GH,NY); Hemlock Bluff, 5 mi S of Cary, *Hess s.n.* (DUKE); Raleigh, *Hillebrand s.n.* (M); E of Durham, *W.E.L. s.n.* (DUKE); Umstead SP, *Sawyer & Ahles 1095* (USCH). **WARREN**: 0.7 mi SE of Mansun on Axtell Rd, *Bell 4174* (SIU); Macon, *Scholz s.n.* (NCU). **WATAUGA**: *Ashe 2384* (NCU). **WAYNE**: Neuse SP, *Bruton 308* (NCSC); 1.5 mi NE of Indian Springs, *Duke 2619* (NCU); Seven Springs, *Fox & Godfrey 2717* (NCSC,NY); 5 mi W of l.c. nr NC 55, *Radford 25484* (MIN); 4 mi E of Dudley, *Radford 28763* (NCU). **WILKES**: Brushy, 5 mi E of N Wilkesboro, *Fox 2447* (NCSC,PH); Ball Mill Rd ca 1.5 mi N of mill, Brushy Mts, *Stewart 1719* (NCU); 0.25 mi S Bunland Orchard, Brushy Mts, *Stewart 1727* (ILL,NCU,NY,US). **WILSON**: 7 mi W of Sims, *Fox 3155* (MIN, NCSC); RR 0.5 mi W of Sims, *Oosting 35599* (DUKE); 2 mi S of Bailey nr NC 581, *Radford 35551* (NCU); 2 mi SSW of Sims, *Radford 35643* (GA,NCU); 1 mi NE of Sims, *Radford 37977* (FSU,USF). **YADKIN**: Davis s.n. (PENN-2).

OHIO. nr Avoka, *Bogue s.n.* (OS). **ADAMS**: Blue Cr, *Bartly & Pontius s.n.* (OS); E Sandy Springson rte 52, *Cooke & Anderson s.n.* (OS). **FAIRFIELD**: Kettlehills, *Jones s.n.* (OS); l.c., *Thomas & Goslin s.n.* (OS). **JACKSON**: Whites Gulch, *Bartley & Pontius s.n.* (OS) & *51* (NY); Jackson Lake State Park, *Goslin s.n.* (OS); Liberty, *Pontius & Bartley s.n.* (US); Whites Gulch, *Taylor s.n.* (OS). **LAWRENCE**: 1 mi E of Andis, *Bartley s.n.* (OS); 0.1 mi W jct Co 6 & Rte 112, S11, *Cusick 22700* (OS); Vesuvius Cemetry, NE¼, SW¼, S26, Elizabeth Twp, *Hammer 116* (MU). **SCIOTO**: Roosevelt Reserve, *Harper s.n.* (OS).

OKLAHOMA. Choctaw Agency, nr 35th latitude, Ft Smith to Rio Grande, 1853-4, *Bigelow s.n.* (US); Cherokee Nation Ind. Terr., *Blankenship s.n.* (GH,MO,US); 4 mi W of Wdg. Stairs Mts, *Jeffs s.n.* (US); nr Ft Blunt, Cherokee Nation, Aug 1863, *Palmer s.n.*

(US); Indian Terr., *Sheldon 91* (US); Okla. Exp. Sta, *Waugh 329* (MO). **ATOKA**: nr Atoka, *Bogue s.n.* (ILL). **BRYAN**: nr Potter Flat on Lk Lexonta, *Gentry 3373* (NCU); nr Durant, *Blaine s.n.* (DPU). **CADDO**: False Washita btw Ft Cobb & Ft Arbuckle, Indian Terr., *Palmer 109* (NY, US). **CARTER**: Ardmore, *Palmer 10397* (MO, PH,S). **CHEROKEE**: 4 mi NE of Tahlequah, *Booker 16* (UC); Tahlequah, *Prier s.n.* (TEAS); 22.8 mi N of Tahlequah via Okla. 10 at Adair line, *Wallis 906* (UC); 21 mi NE of Tahlequah on Okla 700, *Wallis 7569-1* (KANU,NCU). **CLEVELAND**: 5.5 mi E of Normon on Hwy 9 & 1 mi N, *Massey & Massey 2259* (NCU); *White 75* (MO) & *76* (MIN). **CHOCKTAW**: 6.5 mi S of Antlers, *Waterfall 16966* (USF,NCU). **CREEK**: Sapulpa, *Bush 121* (MO). **JOHNSTON**: Tishomingo, *Palmer 6464* (MICH,MO); Devil's Den, *Stratton 4784* (ISC). **KINGFISHER**: 5 Jun 1896, *Blankenship s.n.* (MU). **LATIMER**: E Gowen, *Clark 2673* (G-2); 1 mi W and 0.5 mi N of Wilburton, *Means 706* (KANU); 7.5 mi N of Wilburton, *Stephens 44404* (KANU,UC); Robber's Cave, 7 mi S of Wilburton on St Rd 2, *Wallis 7520* (FSU,GA,GH, KANU,NCU); Robbers Cave, *Wills 91* (WVU). **LEFLORE**: nr Page, *Blakeley 1520* (GH,MO,NY); ca 1.5 mi S of Cedar Cr Lk, S6, T3N, R25E, *Redfearn 24688* (NCU); E of Page, ca 1.6 mi W of the Ark.-Okla. State line, *Taylor & Taylor 13766* (ILL). **LINCOLN**: Fouts, 4 Jul 1995, *Blakenship s.n.* (GH, MO,US) and 4 Jul 1896, *s.n.* (MO). **LOGAN**: nr Langston on Cimarron R, *Myers s.n.* (OS); Jul 1893, *Olive s.n.* (NY); nr Cimarron City, *Olive 24* (F). **LOVE**: 0.5 mi W of Courtney, *Stephens 27454* (KANU); 15 mi W & 2 mi S of Marietta, *Waterfall 7257* (GH). **MARSHALL**: Isl no. 2, Lk Texoma, *Goodman 5922* (GH, ILL, KANU,UC); 2 mi E of Shaw, *Shed 167* (G). **MCCURTAIN**: 1 mi SE of Bethel, *Magrath 11997* (ILL); S of Idabel, *Waterfall 672* (NY). **MURRAY**: Arbuckle Mt, Davis, *Demaree 12823* (MIN); 6 mi N of Sulphur, *Hopkins 5890* (MO,NY). **MUSKOGEE**: N of Greenleaf Lk, *Lawson 91* (ISC); Greenleaf Lk 3.5 mi E of Braggs, *Patrick 116* (ARIZ); 3 mi E of Braggs, *Waterfall 9624* (ARIZ,KANU). **PAYNE**: 1 mi N Perkins, *Fox 77* (WTU); *Olive 24* (NY); Stillwater, *Waugh 329* (US). **PITTSBURG**: McAlester, *Newhall s.n.* (GH); l.c., *Palmer*

6401 (MO). **PONTOTOC**: NE of City Lk, Wintersmith, Ada, *Robbins 2620* (NY,UC); 0.5 mi S of Ada, *Robbins 3074* (NY,TEAS,UC). **SEQUOYAH**: Wildhorse Mt ca 4 mi SW of Sallisaw, S25, T11N, R23E, *Redfearn 24664* (NCU); Tenkiller Lk 7.5 mi NE of Gore on Okla 100, *Wallis 7546* (KANU,NCU).

PENNSYLVANIA. *Schweinitz s.n.* (E); banks of Schuylkill nr Lemon Hill, *hb. Wister s.n.* (PH). **BERKS**: RR 0.375 mi WSW of Klapperthal, *Berkheimer 2165* (GH, PENN,PH); SW slope Mt Neversink, 6 mi SSE of Reading, *Brumback 2537* (FLAS); Neversink, Reading, *Porter s.n.* (PH); S slope Mt Neversink, Reading, *Wilkens s.n.* (PENN, PH); 1.c., 1 mi NW of Neversink Sta, *Wilkens 5964* (PENN,PH). **LANCASTER**: nr "Pinnacle Rock" below Culley, *Brown s.n.* (PENN,PH-2); RR above Fites Eddy, *Brown s.n.* (PH); Isl below McCalls [Ferry], *Carter s.n.* (PH); Culleys, 1 Aug 1906, *Carter s.n.* (PH) and 4 Aug, *s.n.* (NY); Wissler, *Maynard 3353* (PENN,PH); vic Safe Harbor, *Small s.n.* (F); Isl below McCalls Ferry, *Small s.n.* (NY); Isl in Susquehenna R opposite Fites Eddy, 24 Aug 1938, *Tanger s.n.* (PH) & 12 Jul 1939, *3377* (GH, PENN); above Fites Eddy, *Williamson s.n.* (NY). **PHILADELPHIA**: banks of Schuylkill, *Irmes s.n.* (WELC); N side Wissabicken Cr nr Philadelphia above RR bridge, *James s.n.* (PH); *Hb. Lemann s.n.* (CGE); *hb. Nuttall s.n.* (BM); N of Spring Garden Waterworks, Philadelphia, *Smith s.n.* (PH); banks Schuylkill R., *Watson s.n.* (E).

SOUTH CAROLINA. Wiggins, *Rice s.n.* (NCU) & Sep 1929, *s.n.* (NCU). **ABBEVILLE**: ca 2.5 mi N of Russell Dam on Savannah R, *Douglas et al. 1471* (GA); 5.6 mi ESE of Abbeville, *Radford 25894* (NCU). **AIKEN**: 10 mi NE of Aiken on Hwy 215, *Anderson 16* (USCH); Bishoup Gravatt Center, *Johnson & Stroup 425* (USCH); nr Augusta, *McCarthy s.n.* (ISC); Schultz's Hill, Hamburg, *Radford 533* (NCU). **ALLENDALE**: 0.6 mi SSW of Barton on Co Rte 68, *Ahles & Bell 15826* (NCU); Rte 301, *Gwaltney 584* (FTU). **ANDERSON**: Anderson, 18 Jun 1917, *Davis s.n.* (ILL) & 25 Jul 1919, *s.n.*

(MO) & 15 Aug 1919, *s.n.* (MO) & 20 Aug 1919, *s.n.* (G) & 25 Aug. 1919, *s.n.* (UC) & 29 Jul 1920, *s.n.* (MICH,OSC,U) & 15 Aug 1920, *s.n.* (ISC) & 25 Jul 1921, *s.n.* (MO); Whitner Park, Anderson, 6 Aug 1917, *Davis 7702* (MO); Anderson, *Davis 7702* (MICH) & *7754* (PH); Pelzen, *House 2426* (NY). **BAMBERG**: N of Denmark, 0.1 mi W of US 321 on Co 49, *Ahles 25968* (NCU). **BARNWELL**: 1.2 mi W jct Co 217 & US 78 on 217, nr Rosemary Cr, SW of Wil- liston, *Ahles & Baird 56962* (UNC); Sta 33, *Batson & Kelly s.n.* (USCH-2); Barnwell SP, *Porter 304* (USCH). **BEAUFORT**: 1.1 mi ESE Yemassee on Co 33, *Ahles & Bell 15552* (ILL, NCU); St. Helena Isl 1895, *Cuthbert s.n.* (FLAS) & Sep 1902, *s.n.* (FLAS). **BERKELEY**: 1.9 mi SSW of jct US 52 & 17A on US 52, vic Moncks Corner, *Ahles & Haesloop 26489* (NCU,U); jct SC 6 & Co 132, Lk Moultrie, *Ahles & Haesloop 26611* (UNA); RR 1 mi S of Moncks Corner, *Martin 1131* (NY,UC); Francis Marion NF, Dog Swamp Area, ca 2 mi NE on For Rd 170 & SC 21, *Utech 86-1007* (CM). **CHARLESTON**: W of Charleston, *Bright 3170* (CM); nr Charleston, *Stewart s.n.* (F). **CHEROKEE**: Broad R 0.9 mi N of SC 18 on Co 98, NE of Gaffney, *Ahles & Haesloop 26845* (NCU); Blacksburg, *House 2517* (MO). **CHESTERFIELD**: Carolina Sandhills Nat. Wild- life Refuge, 14 Jul 1976, *Castrale 225* (USCH) & 17 Jul 1976, *Cas- trale s.n.* (WVU). **CLARENDON**: Santee Refuge on Lk Marion, Sum- merton, *Churchill s.n.* (MSC); 2.5 mi SSE of St. Paul, *Radford 24388* (NCU). **COLLETON**: US 17, *Drushel 10572* (MO); Co Rd 63 nr jct with US 17A, *Bell 3654* (E,NCU,WIS). **DARLINGTON**: Harts- ville, 14 Aug 1908, *Coker s.n.* (FSU) & 1.c., Williams place, *s.n.* (NCU); bridge Black Cr nr [Lk] Presswood, 15 Jun 1909, *Coker s.n.* (NCU); Hartsville, Burnt Bay, Sep 1911, *Coker s.n.* (NCU); 6.5 mi S of Patrick on SC 102, *Duke 1549* (KANU); Hartsville, Burnt Bay, 12 Jul 1920, *Norton s.n.* (NCU) & 27 Jul 1920, *s.n.* (NCU); 1.c., *Smith 437*, (NCU); S.A.L. RR W of 1.c., *Smith 614* (NCU); 3 mi S of Hartsville, *Smith 719* (NCU). **DILLON**: 1.7 mi N jct Co 50 & SC 9 on Co 50, NW of Dillon, *Ahles & Haesloop 27791* (NCU). **DOR- CHESTER**: 0.4 mi E of Colleton, Dorchester Co-1 on US 17A & 1.4 mi N on dirt rd, *Ahles & Haesloop 26366* (NCU); Summerville,

Brownfield s.n. (MICH-m,US); l.c., *Correll 5332* (DUKE); Givhans Ferry SP, *Soblo 686* (USCH). **EDGEFIELD**: 1 mi SE Johnston, *Radford 26481a* (WTU). **FLORENCE**: 0.6 mi W Olanta Lookout Tower by Co 84, *Bell s.n.* (NCU); 2.8 mi NE of Lee Co-1 on US 76, *Pyrarh et al. 313* (ISC); 1 mi W of Coward, *Swails & Hume 84/148* (USCH). **GEORGETOWN**: Baruch Plantation, *Barry 6* (USCH); 7 mi E Andrews, *Godfrey & Tryon 168* (F,GH,MICH,MO,NY,PENN,PH,UC,US); Cat Isl, Tom Yawkey Wildlife Center, *Nelson 9222* (USCH); 5 mi ENE of Georgetown by US 17, *Radford 24980* (NCU). **GREENVILLE**: Furman Univ., *Mullens 027* (MISS). **GREENWOOD**: 6 mi SW of Greenwood by US 221, *Radford 22834* (NCU); 0.5 mi E of Cokesbury, *Radford 26686* (NCU). **HAMPTON**: 3.1 mi NW of Yemassee on SC 28, *Bell 3883* (NCU); Belmont Plantation, *Porcher 160* (USCH). **HORRY**: ca 4 mi SE of Nixonville, W of Myrtle Beach, *Nelson et al. 4806* (USCH); 2 mi S of Lk Arrowhead Rd off US 17 N of Myrtle Beach, *Raycroft 130* (NCU). **JASPER**: S of Ridgeland, *Bright s.n.* (USF) & *3122* (USF) & *3135* (CM). **KERSHAW**: 2 mi N of Camden on US1, *Holland 2* (USCH); NE of Bethune on US 1, *Radford 23497* (NCU). **LANCASTER**: 3.2 mi S jct SC 200 & US 521 on Co 21, S of Lancaster, *Ahles & Haesloop 27291* (NCU); Forty Acre Ranch, 2 mi W of Taxahaw, *Huntley 291* (DUKE). **LAURENS**: 1 mi S of Little R on SC 72, *Bell 8041* (NCU); Reedy R Dam at Boyd Mill Pond, *Bell 8103* (USCH); Sumter NF, 3.5 mi W of Newberry Co-1 on SC 72, ca 11 mi ENE of Clinton, *Horn 2807* (USCH). **LEE**: 3 mi SW of Lynchburg, *Radford 24112* (NCU). **LEXINGTON**: 0.5 mi W of jct rd & US 321, 1 mi S jct with I26, *Hutto 7* (USCH); Peachtree Rock Preserve, *Tilson 065* (USCH). **MARION**: S of US 378 to Punchpole Landing, ca 15 mi SE of Gresham, *Bell 13560* (NCU); Myrtle Beach, *Bell 13666* (DPU); cult., Carter's Restaurant off hwy 76-301, *Rodgers & Mullens 77248* (ILL). **NEWBERRY**: 0.4 mi NW of Brown's Crossroads, NE of Newberry, *Bell 9107* (NCU); Billy Dreher Isl, *Buff 139* (USCH); Lynch's Woods Park, 0.7 mi SE of SC 219 on US 76, ca 1.5 mi E of Newberry, *Horn 2155* (USCH). **OCONEE**: ca 0.25 mi S of Lawrence

Bridge on Co Rd 27, *Fairley & Douglas 925* (USCH); Clemson College, *House 2350* (US). **ORANGEBURG**: Duke Farm 4 mi SE of Rowesville, *Fairey et al. s.n.* (USCH); US 21, 2 mi S of Branchville, *Reeves 1* (USCH). **PICKENS**: *Anderson s.n.* (ISC); 7 Jul 1897, *Anonymous 1336* (NY); Table Rock SP, *Clonts 1032* (USCH); Glassy Mt, 3 mi NE of Pickens, *Freeman 57376* (NCU); Clemson College, *House 2948* (MO). **RICHLAND**: Ridgewood, *Batson & Kelly 331* (USCH) & *332* (USCH); U. of SC Y-camp, *Gargilis 705-6* (USCH); N Trenholm, *Glaser 20* (USCH); Columbia, *Hexamer & Maier s.n.* (CM); l.c., Jun 1894, *MacFarlane & Davis s.n.* (PENN-2); l.c., jct Helena Rd & Crystal Drive, *Nelson 579* (FLAS); Ft Jackson Army Installation, *Nelson 10539* (USCH); l.c., *Nelson & Kennemore 12924* (US); NE Columbia, *Nelson 15700* (KANU); Ft. Jackson Army Installation, 12 km E of Columbia, *Nelson & Kelly 16807* (NY); Columbia, *Sample 10* (USCH); Columbia, *Smyth s.n.* (VPI); l.c., *Townsend s.n.* (CM). **SALUDA**: 2 mi S of Ridge Spring on SC 392, *Radford 23205* (NCU,WVU). **SPARTANBURG**: 2.5 mi NNW of Cross Anchor, *Bell 8197* (KY,NCU). **SUMTER**: Poinsett SP, Wedgefield, *DuBose 12* (USCH); Poinsett Air Force Weapons Range, *Nelson 14406* (USCH); 7.5 mi SSW of Sumter, *Radford 23949* (NCU). **UNION**: 1.3 mi NW of Tucker Town, *Bell 8421* (NCU). **WILLIAMSBURG**: Venture Plantation, 3 mi SE of Lane off S-16, *Nelson 8119* (USCH); Ventura Plantation ca 5 mi SE of Lane on S-16, *Nelson et al. 15552* (KANU); 5.5 mi SW of Greeleyville, *Radford 24668* (NCU); 2 mi N of Kingstree, *Wiegand & Manning 1645* (GH). **YORK**: 1.2 mi NE jct Co 54 & SC 49, ca 8 mi NE of York, *Ahles & Haesloop 27103* (NCU); Battleground Rd, Kings Mt. Nat. Military Park, *Kennemore 891* (USCH).

TENNESSEE. *Chadbourne s.n.* (ILL); White Cliff Springs, Jun 1890, *Lamson-Scribner s.n.* (US); White Cliff Sprs., 5 Jul 1890, *Lamson-Scribner s.n.* (NY); Nr W Tenn. Teachers College, Normal, *Moore 47* (US); Paint Rock, *Williamson s.n.* (F). **ANDERSON**: Norris, *Cole s.n.* (TENN); Oak Ridge, *Gale 82* (MIN); 2 mi E of Lk City, *Kriebel 8873* (NCU). **BLEDSON**: 4 mi E of Pikesville, *Sharp et*

al. 43715 (TENN). **BLOUNT**: Great Smokey Mt Nat. Park, Hannah Mt, on headwaters of Panther Cr, *Camp 1680* (NY); Great Smokey Mt Nat. Park, E of Cades Cove, *Camp 1817* (NY); 1.c., W end Cades Dove, *Camp 1967a* (NY) & *1967b* (NY); Maryville, *Faxon s.n.* (GH); to Gregory Bald, Hannah Mts, *Greene 3699* (TENN); Chilhowee Mts, ca 7 mi S of Maryville, *Phillippe 2941* (TENN); Abrams Falls, Cades Cove, *Sharp 164* (TENN); Maryville, *Shoop s.n.* (MICH); Chilhowee Mts, SW of Look Rock, *Thomas s.n.* (TENN); Chilhowee Mts, Chilogatee Branch, *Thomas s.n.* (TENN); Chilhowee Mts, btw Lane Gap and Mt Nebo, *Thomas s.n.* (TENN); Chilhowee Mts, btw Walland & Cowan Gap, *Thomas s.n.* (TENN); Chilhowee Mts., nr Chilhowee Dam, *Thomas 33215* (TENN); Chilhowee Mts, ca 4 mi from US 129, *Thomas 33238* (TENN); Walland, *Wehmeyer 252* (MICH). **CAMPBELL**: Cove Cr, *Hesler et al. 2221* (TENN); Cedar Cr, *Hesler et al. 2272* (TENN). **CHESTER**: Aug 1892, *Bain s.n.* (US); Henderson, *Bain 53* (NY). **CLAIBORNE**: Cumberland Gap, *Anonymous s.n.* (IA). **CLAY**: ca 2 mi S of Celina on TENN 52, *Kral 40447* (GA). **COCKE**: English Mt., *Chapman s.n.* (TENN); Del Rio along French Broad R, *Churchill 8247* (MSC). **CROCKETT**: nr Davy Crockett Lk on Humbolt Road, *DeSelm s.n.* (TENN). **CUMBERLAND**: Crab Orchard, *Porter & Harbison 3081* (TENN). **DAVIDSON**: Bull Run Cr, *Shauer s.n.* (TENN); Joelton, *Svenson 113* (GH). **DECATUR**: *Ames s.n.* (MICH). **DEKALB**: *DeSelm 118* (TENN). **DICKSON**: 4 mi S of Dickson, *DeSelm 1868* (TENN); Leatherwood Cr, *Souza 86-612* (TENN); 5 mi W of White Bluffs, *Svenson 4398* (GH,PH). **FAYETTE**: Ames Plantation, *DeSelm & Pope s.n.* (TENN). **FENTRESS**: btw Jameston and Crossville, *Sharp & Underwood 2062* (TENN). **FRANKLIN**: Sherwood, *Bridgman s.n.* (UC); Wolf Cove, *Clements 249* (TENN) and *583* (TENN); Highlands Rim For Agric. Exp. Sta, *DeSelm & Ratledge 30734* (TENN); btw Sewanee and Kirby-Smith Point, *Sharp et al. 5633* (TENN); Sewanee, Sep 1881, *Smith s.n.* (PH,WIS) and 1883, *Smith s.n.* (MIN); Wolf Cove, *Wofford 85-104* (TENN). **GRAINGER**: Buffalo Springs Fish & Game Preserve, *Morrison & Brown 552* (TENN-2

sh.). **GREENE**: S of Greenville on Hwy 70, *Mahler 4416* (ISC, TENN-2); Kinser Park, S of Greenville, *Mahler & Winstead 4499* (TENN-2). **GRUNDY**: nr Tracy City, *Dalton 28* (OS); Savage Gulf Nat Area, *Wofford & Webb 77-172* (TENN). **HAMILTON**: Lookout Mt, *Allen s.n.* (NY); Chattanooga, *Leeds s.n.* (F); Lookout Mt., Jul 1898, *Ruth 400* (US); 1.c., *Smith s.n.* (US); Lookout Mt, *Vasey s.n.* (F,GA,NY,PH). **HARDEMAN**: 2.3 mi W of New Bethel Baptist Church off hwy 57, *Rodgers 34980* (TENN); N of Salisbury, *Sharp et al. 8220* (TENN). **HAWKINS**: btw Eidson & Rogersville, *Sharp & Underwood 4195* (TENN-2); Clinch Mt, 11 Aug 1880, *Smith s.n.* (US) & 16 Aug 1880, *Smith s.n.* (CM); Poor Valley, *Wolfe s.n.* (TENN); nr Greene Co. line, *Wolfe 452* (TENN); Clinch Mt, *Wood s.n.* (NY). **HENDERSON**: Meriweather Lewis Nat Monument, Natchez Trace Pkwy, *King 381* (US); nr Cub Lk, Natchez Trace SP, *Sharp et al. 9331* (TENN). **HICKMAN**: btw Centerville & Wrigley, *Sharp et al. 443* (TENN). **KNOX**: Knoxville, *Bechtel 10908* (WAB) & *10909* (WAB-m); 2 mi SW of UT Farm, *LRH [Hesler!] & MBW 3020* (TENN); Lea Lk, *Jennison et al. s.n.* (MU, US); *Kearney s.n.* (OS); Jul 1893, *Ruth s.n.* (MO); Knoxville, Jul 1893, *Ruth s.n.* (TENN,WTU) & Aug 1893, *s.n.* (UC-m) & Jul 1895, *s.n.* (MIN, MO-2) & 30 Jun 1900, *Ruth s.n.* (TENN) & 299 (NY) & 309 (MO) & 2396 (NY); Knoxville, Lk Ootossee, Jul 1895, *Ruth s.n.* (F,GH, MICH,MIN,MO, MU,S-2.,WIS-2); btw Rocky Hill and Ft Loudon Lk, *Sharp 7239* (TENN). **LINCOLN**: E of Taft, *Sharp et al. 4874* (TENN-2). **MADISON**: 4 mi NW of Pinson, *Hubricht B1636* (MO). **MARION**: Whiteside, rd to Aerna Mt, *Churchill 85188* (MSC); S Pittsburg, *Middleton s.n.* (BM); W of Whitwell, *Sharp & Underwood 2556* (TENN); Foster Falls, *Sharp & Underwood 2596* (TENN); ca 5 mi from Tracy City on rd to Jasper, *Shaver 2550* (TENN); btw Whitwell & Jasper, *Underwood & Sharp 2544* (GH, TENN). **MAURY**: S of Rockdale, *Kral 47840* (KANU,MO,NY). **MCMINN**: along hwy 11, *Stephens 98* (TENN). **MCNAIRY**: NW of Ramer, *RES et al. 14700* (TENN). **MEIGS**: jct rte 58 & 60, *DeSelm s.n.* (TENN-m); nr Georgetown on TENN 58, *Sharp 27705* (TENN). **MONROE**: Tellico Jct, *Bain s.n.* (US); Tellico Plains, 0.6

km S of Indian Boundary Lk, Cherokee NF, *Churchill 93407* (MSC); 6 mi from Tellico Plains-Alno R, *Clalnhigh 155* (DUKE); Tellico R ca 8 mi E of Tellico Plains, *Rogers & Rogers 41500* (TENN). **MONTGOMERY**: King & Queen's Bluff along Cumberland R, *Clebsch & Clebsch s.n.* (TENN). **MORGAN**: Rugby, *Percival s.n.* (F). **OVERTON**: Pond Road nr E Branch of Obey R, *McNeilus 93-1426* (TENN). **POLK**: 3 mi N of Hiwassee R on hwy 68, Cherokee NF, *Bowers & Rogers 43825* (TENN); Cherokee NF, N of Hiwassee R on rd 27, ca 3 mi E of 411, *Somers & Bowers 45758* (TENN); Wolf Ridge Trail to Big Frog Mt, Cherokee NF, *Wofford et al. 81-51* (TENN). **RHEA**: Dayton, *Shanks et al. s.n.* (TENN); Walden's Ridge above Dayton, *Shanks et al. 8986* (TENN); Soak Cr above Little Piney, *FWW et al. 13899* (TENN). **ROANE**: Roosevelt Mt, *DeSelm s.n.* (TENN); Cinch R Breeder Reactor Site, *Hale & Williams 48815* (CM); Obed R upstream from jct with Emory R, *Schmalzer 397* (TENN). **SEVIER**: Mt Harrison, *Cain J2119* (TENN); Elkmont, path to Laurel Falls, *Harris 1850* (GH); Gatlinburg, *Haynie s.n.* (F); vic Elkmont, *Jennison & Smith 2576* (TENN); nr Gatlinburg, Great Smokey Mt Nat. Park, *Miller 2273* (US); Chilhowee Mt, *Pyne 94-244c* (TENN); Bluff Mt below Baker Place, *Thomas s.n.* (TENN); Gatlinburg, *W.T. [Trelease?] 221* (ILL) and *341* (ILL); Elkmont, *Wehmeyer 323* (MICH). **SHELBY**: nr S.T.C. campus, Memphis, *Moore H544* (TENN). **SUMNER**: 3 mi W of Station Camp Rd on Pee Dee Rd, *Alcorn 589* (TENN). **UNION**: Wallens Ridge, Walkers Ford Refuge, *Kalter s.n.* (TENN); Lone Mt, Walkers Ford Refuge, *Kalter s.n.* (TENN); *Kelly 2341* (TENN). **VAN BUREN**: Falls Creek, Falls SP, *Sharp et al. 2985* (TENN). **WAYNE**: Holly Cr E of Collinswood, *Sharp et al. 118* (TENN). **WILLIAMSON**: 1 mi E of jct Tenn 96 on I-40, *Kral 47772* (AUA,MICH).

TEXAS. *Anonymous s.n.* (ILL); Harmaster RR Station, *Fisher 230* (US); Gurley, *Howell 244* (US); *Hb. Lemann s.n.* (CGE); Piedenales [?], 1847, *Lindheimer s.n.* (MO); *Parks & Cory 8923* (TEAS); *Reverchon s.n.* (MO); Buzzards Spring, *Reverchon s.n.* (MIN,MO); 6

Jun 1929, *Stephenson s.n.* (US). **AUSTIN**: San Felipe, *Drummond s.n.* (NY); Kurten, *Palmer 13488* (MO). **BASTROP**: Bastrop SP, *Correll & Johnston 17439* (GH); l.c., *Gillis 3756* (ISC); *Tharp 473* (US). **BELL**: 3 mi N of Holland, *Wolff 779* (TEAS,US); *Wolff 890* (MSC,TEAS). **BEXAR**: *Parks & Cory 8922* (TEAS); *Parks 8925* (ARIZ). **BOWIE**: ca 2 mi N of Texarkana, *Correll 31275* (MO). **BRAZOS**: Democrat Bridge Rd nr Navasota R, *Bain 37A* (TEAS) & *37B* (TEAS); Westwood Estates, 1.5 mi N of FM 60, 1 mi W of FM 2818, College Sta, *Hill 4516* (TEAS); College Sta, *Palmer 7815* (TENN); l.c., 11 May 1946, *Parks s.n.* (TEAS) & 20 Sep 1947, *s.n.* (TEAS); Wellborn, *Parks s.n.* (TEAS,UNA). **CALLAHAN**: ca 4 mi NW of Cross Plains by Tex 36, *Henderson 62-757* (FSU); Clyde, *Palmer 13813* (MO,WIS). **CASS**: Kickapoo Lodge, Lk Texarkana, ca 4 mi N of Douglasville, *Correll 31236* (MO,UC). **CHEROKEE**: nr jct hwy 294 & 23, nr Neches R, *Dewers s.n.* (TEAS); vic New Summerfield, *Isley 5846a* (ISC). **COLORADO**: Columbus, *Rusby s.n.* (NY). **DALLAS**: Dallas, *Glatfelter s.n.* (MO); l.c., *Hall 115* (BM,F-2,MO,NY-3,US); below Bachman Dam, *Lundell & Lundell 7046* (IA,MICH); nr Seagoville, *Lundell & Lundell 9387* (MICH,NY,UC,US); Dallas, *Reverchon 265* (F,MPU). **DENTON**: E side Lk Dallas, *Lundell & Lundell 9451* (MICH,US); Cheatum Oaks, 4.5 mi N of Grapevine, *Shinners 9352* (TEAS). **ERATH**: Morgan Mill, *Tharp s.n.* (CM, GH,MO,NY,PH, TEAS,UC). **FAYETTE**: Colony, *Crawford 16* (MO); *Crawford 34* (F); Colony, *Crawford 44* (US). **GILLESPIE**: Rorstraeher Ranch, 26 mi NE of Fredericksburg, *Coleman s.n.* (TEAS). **GREGG**: Gladwater, *Reverchon s.n.* (MO). **GOLIAD**: nr Fannin along US 96, *Drushel 10105* (NY). **GRIMES**: College Sta, *Palmer 7815* (MO,PH). **HAMILTON**: 3 mi N of Hamilton, *Stanford 1105* (USF). **HARRIS**: Bells, *Joor s.n.* (LSU); Plum Cr, *Joor s.n.* (LSU); Houston, *Lindheimer s.n.* (GH); l.c., *Pammel s.n.* (ISC); Hockley, *Thurrow s.n.* (F); ca 0.2 mi S of Bridge over San Jacinto R via US 59, 23 mi N of Houston, *Traverse 162* (F,GH). **HAYS**: vic San Marcos, *Stanfield s.n.* (NY). **HENDERSON**: 8 mi W of Athens, *Sanders 159* (ARIZ, MICH). **JASPER**: Harrisburg, *Englemann hb. 17703* (MO); S of Jasper via US 96, *Lundell & Geiser 11809*

(MICH). **LIBERTY**: ca 3 mi W of Cleveland, *Gould 6805* (TEAS). **MARION**: Big Cypress Bayou nr Jefferson, *Correll & Correll 16769* (GH,UC). **MONTGOMERY**: Conroe, *Plank s.n.* (NY). **MORRIS**: Daingerfield SP, *Correll & Correll 12439* (MICH,NY). **NAVARRO**: jct Trinity R & hwy 31, nr Trinidad, *Nixon 5031* (NCU). **PARKER**: W. Cross Timbers, 24 mi NW of Ft Worth, *Innes & Moon 966* (GH, UC); 30 mi W of Ft Worth, *Parish 26-11* (ILL); Weatherford, *Tracy 8335* (BM,CM,E,F,G,GH,MIN,MO,MSC,NY, US,W). **RED RIVER**: *Pitcher s.n.* (GH); *Burk s.n.* (PENN). **RUSK**: Waldern, *Vinzent 8* (BM,MO,W). **SABINE**: *Cory 10776* (GH); 10 mi S of Yellow Pine, *Parks & Cory 10775* (TEAS). **SAN JACINTO**: Big Thicket Scenic Area, Sam Houston NF, *Hartman 1245* (TEAS). **SMITH**: Sand Flat Rd, Amigo, *Moore 1016* (GH). **TARRANT**: *Killian 6825* (US); Ft Worth, *Macart 52* (MO); i.c., *Palmer 14233* (MO,TENN,WIS); 7 mi NE of i.c., *Parks & Cory 32024* (TEAS) & *32025* (TEAS); Ft Worth Nature Center and Refuge, 32°45'N, 97°31'W, *Reuter 542* (WIS); 16 Jul 1917, *Ruth s.n.* (ILL) & 6 Jul 1919, *400* (PENN-2) & 16 Jul 1919, *400* (C,PH) & 6 Jul 1923, *400* (GH) & Jul 1928, *Ruth 400* (US); nr Handley, 16 Jul 1913, *Ruth 400* (NY, UC,US) & 6 Jul 1914, *400* (US); along H.P.R.R., 16 Jul 1920, *Ruth 400* (F) & 6 Jul 1921, *400* (GA,WIS-2). **TRAVIS**: Austin, *Wright s.n.* (G); i.c., *Young 43* (GH,ILL, MO,UC-2). **UPSHUR**: 5 mi N of Ore City, *Correll 13157* (NY). **VAN ZANDT**: 2.5 mi SE of Ben Wheeler, *Kral 1116* (FSU). **WILSON**: 2 m S Kicaster School, *Parks 3087* (TEAS); *Parks 8924* (GH). **WISE**: Denton Cr, 11 mi E of Decateur, *Correll & Correll 34197* (GH). **WOOD**: 3 mi SE of Mineola, *Cory 56423* (GA).

VIRGINIA. 1833, *Brynes s.n.*(MO); *Clayton 108* (BM); *Clayton 705* (LECTOTYPE: BM); *Curtiss s.n.* (F); *C.M.D. s.n.* (E-143); *Darrach s.n.* (PH); Fate Valley, *Frye s.n.* (WVU); *Grimes 3912* (PH); nr Carlins, *Hicks s.n.* (MSC). **ALBEMARLE**: Monticello, *Wieboldt M-407* (PH). **ALLEGHENY**: 2 mi SW of Covington, *Kral 9335* (NCU, VPI); Wilson Cr, 2.4 mi from US 60 toward Douthat SP, *Wood 6820* (WVU); bluffs 4 mi N on rte 42 from jct with US, *Wood 6843*

(GH). **ALEXANDRIA**: *Dewey 270* (NCSC). **AMELIA**: *Lewis 395* (VPI); *Lewis 699* (VPI). **AMHERST**: btw Blue Hole & Slaty Gap, above Rocky Row Run, *Freer 2586* (GH,US); Rte 130, 1.4 mi W of Pedlar R, *Freer 3214* (VPI). **APPOMATTOX**: Co Rd 633 nr jct Co Rd 621, *Ramsey et al. 7817* (NCU, VPI). **ARLINGTON**: Ft Myer, *Meams s.n.* (GH); Rte 50 nr Newton Grove, *White 26* (US). **AUGUSTA**: Big Level Refuge, *DeGarmo s.n.* (VPI); Big Levels Area-M-2, *DeGarmo s.n.* (VPI); SW ridge of Trayfoot Mt, *Fosberg 39569* (US); Spring Pond, nr Stuart's Draft, *Freer & Stevens 3253* (VPI); N River Refuge, *Mosby 410* (VPI). **BATH**: Millboro, *Alexander et al. s.n.* (NY); nr Millsboro, *Jones 6027* (ILL). **BEDFORD**: *Curtiss s.n.* (G-2) & 15 Jul 1870, *s.n.* (MU,UC) & 21 Jul 1871, *s.n.* (GH,MO, NY,SIU,US) & 1 Oct 1871, *s.n.* (SIU) & 15 Jul 1872, *s.n.* (F-2,ILL, OS,S) & 15 Jul 1873, *s.n.* (E,NY) & 16 Jul 1898, *s.n.* (GA,NY,US) & 670 (KANU); Blue Ridge Pkwy, *Freer 1686* (GH); 40 mi S of Lynchburg, *Porter s.n.* (PH); Blue Ridge, *Robbins s.n.* (WELC); Blue Ridge Pkwy, *Stoots s.n.* (VPI). **BOTETOURT**: Rte 622 down James R from Arcadia, *Freer 2197* (GH); Black Horse Gap on Blue Ridge Pkwy, *Freer & Ramsey 4265* (NCU); Rte 617 below Bobblets Gap on Blue Ridge Pkwy, *Freer 4415* (ASC); Jefferson NF above Patterson Cr, *Rose 37* (DUKE); nr Eagle Rock, *Steele & Steele 7* (MO,NY,US); above Craig Cr, ca 3.75 mi NW of Eagle Rock, *Wood 6649* (GH); Craig Cr ca 1.5 mi WNW of Eagle Rock, *Wood 6802* (US). **BRUNSWICK**: vic Seward For, *Lewis & Massey 2821* (VPI). **BUCHANAN**: 6 km NW of Hurley, ca 1 km SE of Ky state line, *Wieboldt & Ogle 7938* (VPI). **BUCKINGHAM**: Appomattox Sta For, *Massey & Luidzey s.n.* (VPI); 1 mi E of jct Co 606 & Co 605 on 606, *Ramsey et al. 7686* (NCU). **CHESTERFIELD**: Richmond, *Burk s.n.* (GH-m); S. Richmond, *Hopkins 15* (VPI). **CRAIG**: Potts Mt, ca 0.5 mi NE of Rte 311, *Skarik et al. SMM76-5217* (VPI); *Steele & Steele 7* (E,GH, MO). **CULPEPER**: Buzzard Mt., *Allard 20828* (WVU). **CUMBERLAND**: *Dascomb 80* (MU). **DICKENSON**: ca 1.3 km SSE of Skegg Knob, *Belden & Moorehead 1199* (VPI). **FAIRFAX**: Potomac above Georgetown DC in Va., *Carter s.n.* (PH); Four Mile Run, *Freeman s.n.* (DUKE). **FAUQUIER**: W Bull

Run Mt, *Allard 2067* (VPI) & 2280 (F,NY) & 7831 (VPI); *Fosberg 48550* (US); Bull Run Mts, 2.5 mi NE Plains, *Hermann 9900* (F, MICH). **FRANKLIN**: nr Wirtz, *Ikenberry s.n.* (MO). **FLUVANNA**: James R bluff at Bremono, *Baldwin 5418* (GH,VPI). **FREDERICK**: W of Winchester, *Hunnewell 10711* (VPI). **GILES**: Peters Mt ca 1 mi N of Narrows, *Fogg 17353* (PENN); Peter's Mt, WVU *Bot. Exp. s.n.* (WVU); Peters Mt, *Massey s.n.* (VPI); l.c., *Sheriff 5047* (BM). **GLOUCESTER**: 1 mi N of Gloucester, *Meredith s.n.* (PH). **GREENSVILLE**: 1.5 mi from Sussex-Greenville Co-1 NE of Emporia, *Ahles 58487* (NCU). **HALIFAX**: 4.5 mi W of Halifax on US 360, *Ahles & James 60619* (NCU); vic Volens on US 501, *Ahles & James 60580* (NCU); 12 mi E Danville via JEB Stuart Hwy, *Fosberg 15400* (PENN). **HAMPTON**: Elizabeth City, vic Hampton, 20 Jul 1927, *Churchill s.n.* (WIS) & 24 Jul 1927, *Churchill s.n.* (MIN). **HANOVER**: Ashland, *Chalmot s.n.* (US). **HENRICO**: 3 mi NW of Richmond, *Henry 1280* (PH); Richmond, *MacNab s.n.* (BM); l.c., 10 Jul 1928, Fairway Ridge, *F.H.W. s.n.* (GH); Elko, *Wherry & Pennell 12516* (MO,NY,PH, WVU). **HENRY**: Rte 220 N Carolina line, *Buker s.n.* (CM); RR nr VA 620, 1 mi from Mt Olive Rd, *Straley 69157* (VPI). **JAMES CITY**: Matoaka Park, *Baldwin 361* (GH); E of jct SW Gate Trail & Strawberry Plains Trail, William & Mary College, *Barans 385* (NCU); 1 mi NW of Wilmington, *Grimes 3912* (MIN); ca 3 mi N of Williamsburg via Rte 60, *Menzel 34* (GH); nr Powell L, *Seymour 17548* (ISC). **KING AND QUEEN**: 0.8 mi N of VA 14 on rte 621, NE of Bruington, *Bradley & Gilmore 23636* (GA). **KING GEORGE**: Eagle's Nest Point, Caledon SP, *Ware 8529* (VPI). **LEE**: above Cudjo Cave, Cumberland Gap Nat. Hist. Park, *Patrick & Pounds 5745* (TENN); l.c., *Pounds CG85-122* (TENN). **LUNENBURG**: Bear Element Cr, Co 655, *Ahles & James 62005* (NCU); Mehenin R at Whittles Mill on Co 636, SE of Red Level, *Ahles 62030* (NCU). **MECHLENBERG**: Cuscovilla, *Meredith s.n.* (PH); US 58, *Seaman 7162* (NCU). **MONTGOMERY**: N Fork of Roanoake R, 1.5 mi NE of Ironto, *Churchill & Wurdack s.n.* (MSC); 1 mi NE Ironto & 8 mi E of Blacksburg, 37°14'N, 80°16'W, *Iltis 19757*

(NCU, WIS); 1 mi E of Ironto on VA 603, *Uttal 6441* (FSU,VPI, WVU); ca 0.5 mi E Ironto along Virginia RR, *Wood 6701* (GH,UC, WVA). **NANSEMOND**: 1 mi SE of Blackwater R on VA 189, then 2.5 mi S, *Ahles et al. 58218* (NCU); Suffolk, *Britton et al. s.n.* (NY); nr end Co 665 off Va 615, *Duke 1118* (NCU); Suffolk, along RR, *Gleason 8567* (NY); l.c., Heller 1131 (E,F-3,G,GH,MIN,MO,NY-2,PENN,PH,UC,US,WTU); 2 mi NE Suffolk, *Hubricht B2827* (G). **NELSON**: Nellysford, *Hunnewell 10246* (VPI); RR on Tye R nr jct Co 662 & 739, *Ramsey et al. 9273* (NCU,VPI); btw Afton & Lovington, *Rydberg 9227* (NY). **NEW KENT**: vic Norfolk, *Britton & Britton s.n.* (G); l.c., Sewalls Points, *Harrison s.n.* (GH); 2 mi E of Deep Cr, *Hubricht B2517* (MO-m); Ocean View, *E.E.L. s.n.* (OS); l.c., *Meredith s.n.* (PH); nr Portsmouth, *Rugel s.n.* (BM,E); Davis Pond 0.4 mi from dam, Barhamsville, *Soltis 290* (FLAS,NCU). **NORFOLK**: vic Norfolk, *Britton et al. s.n.* (MU); nr Northwest, *Kearney 1523* (US); Norfolk, *Shimek s.n.* (IA). **NORTHAMPTON**: S of Kendell Grove, *Fernald et al. 5338* (GH,PENN,PH); Seaview, *Hunnewell 16874* (VPI); btw Cape Charles & Brighton, *Richmond s.n.* (US). **NOTTAWAY**: RR yard nr Creve, *Writon s.n.* (VPI). **PATRICK**: *Latum 52* (VPI); 1940, *Massey & Tatum s.n.* (VPI). **PITTSYLVANIA**: vic airport, ca 3 mi E of Danville on US 58, *Ahles & James 62255* (NCU); ca 2.5 mi from jct with 718 on Co. 706, *Ruska & Waggoner s.n.* (NCU,VSC). **POWHATAN**: 0.5 mi N Rte 711 & 0.25 mi W of Rte 614, *Corcoran & Diggs 1162* (NCU); 1 mi W jct with Rte 13, *Johnson 3039* (NCU). **PRINCE EDWARD**: 1.5 mi SW of jct Co 630 & Co 637 on 630, E of Warsham, *Ahles & James 62817* (NCU); 26 Aug 1880, *Smith s.n.* (US); Farmville, *Stevens s.n.* (VPI). **PRINCE GEORGE**: Camp Lee, *Bonar s.n.* (MICH); l.c., 1937, *Massey s.n.* (VPI); 2 Jul 1940, *Massey & Llewellyn s.n.* (VPI); Camp Lee, *Massey 516* (VPI). **PRINCESS ANNE**: Cape Henry, *Churchill 529* (MO-2); l.c., end R-5 at the Narrows, *Egler 40-25* (NY); Virginia Beach, *Fernald & Long 3982* (GH,NY,PENN); l.c., Owl Cr, *Fernald & Long 3984* (GH-2,PH); Oceana, *Meredith s.n.* (PH). **ROANOKE**: Niagra nr RR crossing, *Massey 4768* (VPI); Green Ridge, ca 1.5 (or 2) mi NNE of Hanging Rock, *Wood 3078* (PENN)

& 3438 (GH); Chestnut Ridge just S of S Roanoke, *Wood 5302* (PENN); Catawsa Mt ca 4.5 mi NW of Hanging Rock, *Wood 6119* (GH). **ROCKBRIDGE**: 11 mi N of Buena Vista on Rockbridge Rd 603, *Gupton 3388* (CM); 1.5 mi N of Buena Vista on Co 603, *Gupton 3392* (NCU). **SHENANDOAH**: Massanutten Range, Three Top Mt, *Allard 5506* (CM,US,VPI); Woodstock, Massanutten Mts, *Artz 164* (VPI); Ft Valley, Blandy Exp. Farm, Boyce, *Baldwin 5325* (VPI); Three Top Mt, Massanutten, 3 mi NE Woodstock, *Hermann 9832* (NY,PH); Shenandoah R nr Strasburg, *Hunnewell s.n.* (VPI); Three Top Mt, *Hunnewell 12229* (VPI); l.c., *Hunnewell & Griscom 15173* (VPI); nr Edinburg, *Hunnewell 17515* (GH). **SMYTH**: Broadford, *Wall 383* (S). **SOUTHAMPTON**: *Gray s.n.* (PH); 1806, *Pursh s.n.* (PH-f); Three Creek, Drewryville, *Fernald et al. 5815* (GH, PH). **SPOTSYLVANIA**: Fredericksburg, *Porter s.n.* (NY,PH). **SURRY**: VEPCO Surrey Nuclear Power Station, Surrey, *Ware et al. 5752* (NCU). **SUSSEX**: RR N of Southhampton-Sussex Co-1 on Co 735, vic Joyner, *Ahles & Baird 58548* (NCU); Waverly, *Seymour 5* (ASU,GH,MO-3,NY,S, TENN,UC,WIS). **WARREN**: nr Middletown, *Hunnewell 11935* (VPI). **WESTMORELAND**: jct Va 3 & Co 204, *Bradley 10839* (NCU); Colonial Beach, *House 222* (NY). **VIRGINIA BEACH**: btw Lynn Haven & Lk Smith, *Hitchcock s.n.* (ILL). **YORK**: Warrich R, Ft Eustis, Newport News, *Appler 788* (NCU); ca 1.5 mi NW of Grove, *Randolph & Randolph 350* (GH). **WEST VIRGINIA**. **BOONE**: Joe's Cr, *Coon s.n.* (WVU). **CALHOUN**: Big Springs, *Harris s.n.* (WVU); Stinson, *Harris s.n.* (WVU). **FAYETTE**: New R Gorge, Cotton Hill Sta, *Core 4213* (WVU); New R above Cotton Hill Bridge, *Grafton s.n.* (WVU); New R, Cotton Hill, *WVU Bot. Exp. s.n.* (WVU-2). **GREENBRIER**: Greenbrier Resort Airport, *Grafton s.n.* (WVU). **HAMPSHIRE**: Caca-pan R, *Davis et al. 4315* (CM,WVU); Coldstream, *Davis & Davis 6188* (CM,OSC); l.c., *Frye s.n.* (WVU); Capon Bridge, *Frye 663* (WVU). **HARDY**: nr Wardensville, *Hunnewell 12415* (GH). **JEFFERSON**: Harper's Ferry, 1843, *Anonymous s.n.* (GH). **KANAWA**: Charleston, *Barber 4589* (WVU); Kanawah SF, *Denison s.n.*

(WVU). **MCDOWELL**: Panther SP, *Grafton s.n.* (WVU). **MINERAL**: Ridgeville, *Harper & Harper s.n.* (MICH,UC). **MINGO**: headwaters of Elk Cr, Ritters For, *Berkley 1048* (MO). **MONROE**: Coalfont Rd, *Everett s.n.* (WVU); Sweet Spring, *Massey s.n.* (VPI); Cove Cr nr Sweet Springs, *WVU Bot. Exp. s.n.* (WVU). **PUTNAM**: Teays Valley, *WVU Bot. Exp. s.n.* (WVU). **SUMMERS**: nr Indian Mills, *Boone s.n.* (WVU 47728). **UPSHUR**: Canaan Valley, *Netting s.n.* (CM,FLAS). **WAYNE**: Cabwaylingo SP, *Gilbert 598* (CM,DUKE,F,GA,GH,IA, ILL,MICH, MIN,MO,NY,PENN,PH, TENN,UMO,WVU,WIS); Stoney Point, *Plymale 601* (WVU). **WIRT**: *Hughes s.n.* (ILL); 2 mi W of Wirt-Ritchie Co-1 on Rte 53, *Wilson & Bartholomew W-6015a* (WVU). **WYOMING**: nr Simon, *Evans s.n.* (WVU).

CLITORIA MARIANA L.

var. PUBESCENTIA Fantz

FLORIDA. 1835, *Gray 2568* (S). **ALACHUA**: Gainesville, *Crawford s.n.* (PH); l.c., *Lakela 18344* (MIN). **BREVARD**: N of Sebastian, *Lakela 24744* (FLAS,GH); Carlton Terrace, Cocoa, *Rhoads s.n.* (FLAS). **CITRUS**: *Murrill s.n.* (FLAS). **CLAY**: nr Kingston Heights, *Birch s.n.* (DPU); Orange Park, *Clark s.n.* (MSC); Blue Pond, 5 mi (airline) N of Keystone Heights, S20, T7S, R23E, *Ward et al. 8380* (FLAS,GA); Fla 21 ca 10 mi N of Keystone Hts., *White 23* (FLAS). **COLLIER**: Keewatdin Isl, S of Naples, *Anderson 13123* (FSU); Marco Isl, *Atwater s.n.* (FLAS); Kissimmee Billy N of Alligator Alley, *Correll et al. 47169* (FTG); l.c., *Smiley s.n.* (FTG,NCU). **DADE**: Miami, *Meredith s.n.* (PH); S of Miami R, *Small et al. 6432* (FLAS, GH,MO,NY, PENN-2,S,TENN,WVU). **HERNANDO**: Weekiwachee, *Cooley et al. s.n.* (USF); *Genelle & Fleming 976* (USF); 0.5 mi E of jct hwy 19 & 50, *Isley & Wemple 9278* (ISC); Chinsegut Hill, 6 mi N of Brooksville, *Lakela 24450* (FSU,OSC) & *24491* (MIN,USF). **HILLSBOROUGH**: Tampa, *Ferguson s.n.* (MO). **INDIAN RIVER**: S of Vero Beach, *Christman & Fernald 1859* (FLAS); ca 5.6 mi S of Vero City on US 1, *Lakela 25967* (USF); ca

4.5 mi S of Vero Beach on US 1, *Lakela 26575* (MIN). LAKE: Lk at Leesburg, 7 Jun 1967, *Baltzell 120* (HOLOTYPE: FLAS 99034); 1.7 mi E of alt. US 441, 6 mi N Leesburg, *Baltzell 7179* (NCSC,US); McMillian Farm, 1.5 mi N of Polk Co-1 on FLA 33, *Harriman 13375* (ASU); vic of Eustis, *Hitchcock s.n.* (F,FLAS,MO); Camp McQuarrie, Ocala NF, *Mather M410* (ILL,KAN); Leesburg, *Meebold 27678* (M-m); vic of Eustis, *Nash 913* (PH,PR) & *956* (E,F,G-2,GH,MICH,MIN,MO,MSC,NY,UC); Lk Mineola, *O'Neill s.n.* (WIS). LEVY: Cedar Key Scrub SP, N of FL 24, *Amoroso 395* (FLAS); Rosewood, *Garber s.n.* (F-2, FLAS,NCSC,PH). MANATEE: Palmetto, *Weber s.n.* (FLAS). MARION: 0.9 mi W of Central Tower, 16 mi E of Ocala, Ocala NF, *Baltzell 6604* (F,RB); 10.3 mi NE of Weirsdale via Fla 42 and 1.6 mi N of FLA 42, 7 mi W jct FLA 42 and 452, *Baltzell 8648* (MICH) & 0.7 mi W of jct FLA 42 and 452 on FLA 42, *8650* (HAL); 9.9 mi NE of Weirsdale via Fla 42, 1.2 mi N of FLA 42, *Baltzell 8657* (BM); Ocala NF, 1.5 mi S of FR 75 on FR 97, *Brandt 55* (FLAS); Ocala Sand Pine Proposed RNA, *Christman et al. 1803* (FLAS); Ocala NF, 4.1 mi E of Eureka Breidge via FLA 316 at jct with SR 88, *Fantz 2011* (BA,MICH,MO,MPU,PENN,PR,SI,U,US,VEN, VSC); Ocala NF, 0.4 mi N of FLA 316 via SR 88, *2012* (BM,CGE,F,FLAS,GH,PH, RB,S,UC, UMO,W); 1 mi S of Citra, *Ford 2263* (NCU, TENN); Ocala NF, nr jct CR 314 & FR 97, *Greenberg 201* (FLAS); Ocala NF E from hwy 19, 13 mi S of Salt Springs, *Lammers et al. 5881* (OS); Ocala NF, ca 17 mi ESE of Silver Springs, *Morris et al. 3386* (FLAS); Ocala NF, *O'Neill s.n.* (FLAS,US,WIS); 7.3 mi W of Salt Springs on FLA 316 and 7 mi E of Ft McCoy, S18, T13S, R25E, *Perkins & Zona 926* (F,FLAS,BM); Ocala NF, 0.5 mi E on Forest Rd 67 from jct Co Hwy 314, SW of Salt Springs, T14S, R24E, S12NE, *Utech 86-836* (CM-m); Ocala NF., ca 1.5 mi SW of Central Tower, 24 mi E of Ocala, S23, T15S, R25E, *Ward 8772* (FLAS); Weirsdale, *West s.n.* (FLAS). OKEECHOBEE: vic Okeechobee, *Fredholm 5868* (GH). ORANGE: Buena Vista, ca 0.5 mi E Rte 545 & 0.2 mi N of FL 192, *Churchill 83620* (MSC); *Fredholm 5386* (GH); Lk Brantley, 20 Jun

1874, *Lewton s.n.* (TENN) & 21 Jun 1894, *s.n.* (NY); 6 mi N of Orlando, *Murrill s.n.* (FLAS); Clarcona, *Pieters 68* (GA); nr Maittared, *Schallert 4970* (ARIZ). PINELLAS: NE Clearwater, *Genelle 732* (USF); Dunedin Hammock, *Genelle & Fleming 2239* (USF). POLK: 4 mi E of Lk Hamilton via 544, *Conard s.n.* (BM,FLAS, GH); Haines City, *Hunnewell 10373* (WELC); Crooked Lk S of Lake Wales via US 27, *Lakela 24195* (USF); Winter Haven, *McFarlin 678* (FLAS) & *5120* (MICH,WIS); 4 mi S of Lakeland, *Mozingo s.n.* (CM); *Ohlinger 87* (F-m,FLAS-m,GA,MO-m). PUTNAM: Welaka, *Doud s.n.* (FLAS); 3 mi N of Salt Springs via FL 19, Ocala NF, *Herndon 3097* (LSU). ST. JOHNS: Dyke SP, *Churchill s.n.* (MSC). ST. LUCIE: N county on US 1, *Lakela 25380* (NCU, USF). SEMINOLE: 5 mi W of Altamonte Springs, *Baltzell 1069* (FLAS); 7.5 mi W of Sanford, *Baltzell 7399* (K,NY); Longwood, *Beardslee s.n.* (MU-2); Altamonte Spring, *Beardslee s.n.* (MU); Sanford, *Crevasse s.n.* (FLAS); Chuluota, Lk Pickett, *O'Neill s.n.* (WIS); jct Alafaya trail & power lines, S of Oviedo, *Schadow & Heins 196* (FTU); Altamonte Springs, *Schallart 4970* (IA); Lk Mary, *Schallert 6682* (ISC). VOLUSIA: 0.8 mi N Osteen via Fla 415, *Baltzell 7411* (GH,NY,UNA); Datona Beach, *Bourdo 16575* (MSC); Ormund Beach, *Chermock & Chermock s.n.* (UNA); Deland, *Cleef s.n.* (FLAS); l.c., *Darkness s.n.* (MO); Orange City Jct, *Eaton s.n.* (F); Deland, *Gunn 3454* (ISC); Orange City, *Hood s.n.* (GA); Blue Springs, *Hood s.n.* (FLAS-2,MO); Daytona Beach, *Hume & Hume s.n.* (FLAS-3); Deland., *Perkins s.n.* (GH); l.c., *Richardson s.n.* (ISC).

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