AN ANNOTATED CATALOGUE OF THE
BERTRAM WHITTIER WELLS
BIG SAVANNAH
(PENDER CO., NORTH CAROLINA)
COLLECTIONS IN THE
NORTH CAROLINA STATE UNIVERSITY HERBARIUM

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ANGELA R. RICHARDSON5

Abstract. Described as an upland grass-sedge bog, Big Savannah represented an exceedingly rare community type in North Carolina, being completely treeless but hosting a rich herbaceous flora. Unfortunately, the savanna remained unprotected and was lost by the 1950s. Despite the detailed floristic inventory and community descriptions published by B.W. Wells, voucher specimens were never cited. The objective of this study was to compile a vouchered checklist of the plants of the lost Big Savannah by cataloguing the extant Wells collections from the site. Such a checklist can be useful in addressing taxonomic problems arising from changes in nomenclature and providing a specimen-based foundation for restoration efforts of this community type. As Wells' specimens are intercalated with other collections at NCSC, a herbarium “crawl” was undertaken to identify the pertinent collections. The resulting checklist includes 231 specimens comprising 136 species.

Keywords: Bertram Whittier Wells, Big Savannah, Pender County, North Carolina

North Carolina Coastal Plain savannas rank among the most species rich communities in the world – at least when examined at very small scales (Walker & Peet 1983). Wells & Shunk (1928) conducted the first floristic inventory of a North Carolina savanna: Big Savannah (Pender Co.) (Shelingoski et al. 2005). Described as an upland grass-sedge bog, Big Savannah represented an exceedingly rare community type in North Carolina, being completely treeless but hosting a rich herbaceous flora (Wells & Shunk 1928; Wells 1932). Unfortunately, the savanna remained unprotected and was lost to “plow and bulldozer” by the 1950s (Shelingoski et al. 2005). Despite the detailed floristic inventory and community descriptions provided by Wells & Shunk (1928), voucher specimens were not cited. Thus, species records provided by Wells & Shunk (1928) would remain unverified were it not for the fact that Wells did indeed make collections from Big Savannah and that these continue to survive in the herbarium of North Carolina State University (NCSC). The objective of this study was to compile a vouchered checklist of the plants of the lost Big Savannah by cataloguing the extant Wells collections from the site. Such a checklist can be useful in addressing taxonomic problems arising from changes in nomenclature since Wells & Shunk (1928) and providing a specimen-based foundation for restoration efforts of this community type (Shelingoski et al. 2005).

AK thanks: Donna Wright (North Carolina State University) for thoughtful discussions regarding Big Savannah; Richard LeBlond (North Carolina Natural Heritage Program) for making available an unpublished manuscript; and Mary Ann Feist (ILL) for providing label data and determinations for Oxypolis filiformis. Richard LeBlond, Misty Franklin, Dale Suiter (Associate Editor for this manuscript), and an anonymous reviewer provided thoughtful reviews of a previous version of the manuscript.

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This study was undertaken as a component of a graduate course in modern herbarium management and curation taught by the senior author. As Wells’ specimens are intercalated with other collections at NCSC, a herbarium "crawl" (i.e., examination of every specimen) was undertaken to identify Wells collections. A roughly equal number of cabinets was assigned to each author for searching. All of B.W. Wells' Big Savannah specimens were removed from the main collection and placed in a separate cabinet. Specimens from the Big Savannah collection were then divided equally among each author for identification and curation. Specimens were identified using Radford et al. (1968), except for those in Juncaceae, Cyperaceae, Poaceae, and Xyridaceae which were identified using the recent Flora of North America treatments (Allred 2003; Ball & Reznicek 2002; Brooks & Clemants 2000; Campbell 2003; Dávila Aranda & Hatch 2003; Freckmann & Lelong 2003a-b; Kral 2002a-c; Reznicek et al. 2002; Sánchez-Ken & Clark 2003; Tucker et al. 2002; Webster 2003; Wipff 2003). Nomenclature follows PLANTS (USDA, NRCS 2004), except for Juncaceae, Cyperaceae, Poaceae, and Xyridaceae which follow the respective Flora of North America treatments (Allred 2003; Ball & Reznicek 2002; Brooks & Clemants 2000; Campbell 2003; Dávila Aranda & Hatch 2003; Freckmann & Lelong 2003a-b; Kral 2002a-c; Reznicek et al. 2002; Sánchez-Ken & Clark 2003; Tucker et al. 2002; Webster 2003; Wipff 2003), and Orobanchaceae which follows Olmstead et al. (2001) and Weakley (2005). Author abbreviations follow Brummitt & Powell (1992).

The B.W. Wells collection from Big Savannah includes 231 specimens comprising 136 species (Tables 1 & 2). Specimens were collected over a period of 39-43 days, mostly in 1924 (N=100) and 1925 (N=129) (Table 2). Label information is generally sparse and mostly limited to identification of locality (e.g., Big Savannah or margin/transition Big Savannah). An annotated checklist of Big Savannah species follows. Taxa are arranged alphabetically by family, genus, and species within the major groups of ferns and allies, monocots, and eudicots. Species are listed by current names as determined by one of the authors, followed by the original label information in quotes (incl. the original determination [authorities not corrected]; the nomenclatural authority of Wells and Shunk may have been Small 1913). The following abbreviations were used to identify specimen condition: Fl=Flowers present; Fr=Fruits present; Imm=Immature; Infl=Inflorescence; Repr=Reproductive; St=Sterile. Symbols following specimen records indicate the determiner: ♣=Krings, ♦=Harris, ♥=Inman, ♠=Lee, •=Richardson. Specimens of Oxypolis filiformis (Walt.) Britton are on loan to ILL and were determined by Mary Ann Feist. Arrows follow names that have been crossed out on the collection label and precede corrected names. Species preceded by "wV" are also vouchered from the nearby Wells Savannah - thought to be a remnant of the same community type as Big Savannah (Shelingoski et al. 2005). Species preceded by "wS" have been sight identified from the Wells Savannah by Richard LeBlond (pers. comm.), but not yet vouchered.

Table 1. Taxonomic summary of Wells collections from Big Savannah.

<table>
<thead>
<tr>
<th></th>
<th>Families</th>
<th>Genus</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferns &amp; Allies</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Monocots</td>
<td>10</td>
<td>33</td>
<td>66</td>
</tr>
<tr>
<td>Eudicots</td>
<td>19</td>
<td>38</td>
<td>66</td>
</tr>
<tr>
<td>Total</td>
<td>31</td>
<td>73</td>
<td>136</td>
</tr>
</tbody>
</table>
A few collections from Big Savannah are included that were not collected by Wells: Fimbristylis puberula (Michx.) Vahl (Martins s.n.), Magnolia virginiana L. (Buell s.n.), Rhynchospora nitens (Vahl) A. Gray (Fox s.n.), and Vaccinium crassifolium Andr. (Martins s.n.), and Vaccinium tenellum Aiton (Martins s.n.). These were not included in determining the taxonomic summary or species counts for the Wells collection proper (Table 1 & 2). Other collections of species cited by Wells & Shunk (1928) that may be from Big Savannah include Chaptalia tomentosa Vent. (from an “Orange grass savannah near Burgaw;” Buell 3480).

Eleven species collected from Big Savannah are now state listed (following Franklin & Finnegan 2004): Agalinis linifolia (Nutt.) Britton (W1), Asclepias longifolia Michx. (W1), Hele nium pinnatifidum (Nutt.) Rydb. (SR-P), Eryngium integrifolium Walt. (SR-T), Lysimachia loomsii Torr. (W1), Pinguicula lutea Walt. (SR), Platanthera nivea (Nutt.) Luer (T), Polygala hookeri Torr. & A. Gray (SR-T), Solidago pulchra Small (SR-L), Spiranthes flori dana (Wherry) Luer (SR-T), and Spiranthes longilabris Lindl. (SR-T). Among species listed by Wells & Shunk (1928), but for which no vouchers could be found (see Table 3), the following are currently listed: Rhynchospora oligantha A. Gray (SR), R. pallida M.A. Curtis (W1), Carduus leontei (Torr. & A. Gray) Pollard (=Cirsium leontei Torr. & A. Gray) (SR), Dionaea muscipula J. Ellis (SR). The status codes are defined in Table 4.

**Ferns and allies**

**LYCOPODIACEAE**

*Lycopodiella prostrata* (R.M. Harper) Cranfill

"Lycopodium prostratum Harper; Big Savannah," W ells s.n., 2 Jul 1924, St, ♦

OSMUNDACEAE

"Osmunda cinnamomea L.; Big Savannah,“ W ells s.n., 2 Jul 1924, St, ♦

Angiosperms

**Monocots**

**AMARYLLIDACEAE**

Hypoxis hirsuta (L.) Coville

"Hypoxis hirsuta; (Early and late forms), Big Savannah," W ells s.n., 4 Apr 1925, Fl, ♦

**Cyperaceae**

Carex crinita Lam.

"Carex crinita; Transition, Edge of Woods, Big Sav.,“ W ells s.n., 1 May 1925, Fl, ♦

**Ferns and allies**

**LYCOPODIACEAE**

*Lycopodiella alopecuroides* (L.) Cranfill

"Lycopodium alopecuroides L.; Big Savannah," W ells s.n., 2 Jul 1924, St, ♦

*Lycopodiella prostrata* (R.M. Harper) Cranfill

"Lycopodium prostratum Harper; Big Savannah," W ells s.n., 2 Jul 1924, St, ♦

Osmunda cinnamomea L.

"Osmunda cinnamomea L.; Big Savannah,“ W ells s.n., 2 Jul 1924, St, ♦

Osmunda regalis L.

"Osmunda regalis L.; Big Savannah,“ W ells s.n., 2 Jul 1924, St, ♦

Angiosperms

**Monocots**

**AMARYLLIDACEAE**

Hypoxis hirsuta (L.) Coville

"Hypoxis hirsuta; (Early and late forms), Big Savannah," W ells s.n., 4 Apr 1925, Fl, ♦

**Cyperaceae**

Carex crinita Lam.

"Carex crinita; Transition, Edge of Woods, Big Sav.,“ W ells s.n., 1 May 1925, Fl, ♦

**Ferns and allies**

**LYCOPODIACEAE**

*Lycopodiella alopecuroides* (L.) Cranfill

"Lycopodium alopecuroides L.; Big Savannah," W ells s.n., 2 Jul 1924, St, ♦
### Table 3. Species listed by Wells & Shunk (1928), but not represented by vouchers at NCSC.

<table>
<thead>
<tr>
<th>Ferns and Allies</th>
<th>Iridaceae</th>
<th>Asteraceae</th>
<th>Fabaceae</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lycopodium carolinianum</td>
<td>Iris verna</td>
<td>Cordonophora nudata</td>
<td>Chamaerista nictitans</td>
</tr>
<tr>
<td>Anchistea virginica</td>
<td>Melanthium dispersum</td>
<td>Eupatorium capillifolium</td>
<td>Hypericum opacum</td>
</tr>
<tr>
<td>Gymnosperms</td>
<td>Orchidaceae</td>
<td>Cypripedium calceolus</td>
<td>Lamiaestraceae</td>
</tr>
<tr>
<td>Pinus palustris</td>
<td>Poaceae</td>
<td>Solidago juncea</td>
<td>Scutellaria integrifolia</td>
</tr>
<tr>
<td>Pinus taeda</td>
<td>A ndropogon virginicus</td>
<td>Thysanthera semiflosculare</td>
<td>Lentibulariaceae</td>
</tr>
<tr>
<td>Angiosperms</td>
<td>Cyperaceae</td>
<td>A ndropogon mohrii</td>
<td>Utricularia subulata</td>
</tr>
<tr>
<td>Monocots</td>
<td>A ndropogon perangustatus</td>
<td>A ndropogon perangustatus</td>
<td></td>
</tr>
<tr>
<td>Orchidaceae</td>
<td>Blephariglottis ciliaris</td>
<td>Cistaceae</td>
<td></td>
</tr>
<tr>
<td>Liliaceae</td>
<td>Melanthium dispersum</td>
<td>Solidago juncea</td>
<td></td>
</tr>
<tr>
<td>Poaceae</td>
<td>A ndropogon mohrii</td>
<td>A ndropogon perangustatus</td>
<td></td>
</tr>
<tr>
<td>Rhynchospora baldwinii</td>
<td>A ndropogon mohrii</td>
<td>A ndropogon perangustatus</td>
<td></td>
</tr>
<tr>
<td>Rhynchospora oligantha</td>
<td>A ndropogon mohrii</td>
<td>A ndropogon perangustatus</td>
<td></td>
</tr>
<tr>
<td>Rhynchospora pallida</td>
<td>A ndropogon mohrii</td>
<td>A ndropogon perangustatus</td>
<td></td>
</tr>
<tr>
<td>Rhynchospora rariflora</td>
<td>A ndropogon mohrii</td>
<td>A ndropogon perangustatus</td>
<td></td>
</tr>
<tr>
<td>Sderia hirtella</td>
<td>A ndropogon mohrii</td>
<td>A ndropogon perangustatus</td>
<td></td>
</tr>
</tbody>
</table>

### Table 4. Applicable status codes and definitions (from Franklin & Finnegan 2004).

<table>
<thead>
<tr>
<th>Status code</th>
<th>Status</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>T</td>
<td>Threatened</td>
<td>“Any resident species of plant which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.” (GS 19B 106:202:12).”</td>
</tr>
<tr>
<td>SR</td>
<td>Significantly rare</td>
<td>“Species which are rare in North Carolina, generally with 1-100 populations in the state, generally substantially reduced in numbers by habitat destruction (and sometimes also by direct exploitation or disease)”</td>
</tr>
<tr>
<td>-L</td>
<td>Limited</td>
<td>“The range of the species is limited to North Carolina and adjacent states (endemic or near endemic). These are species which may have 20-50 populations in North Carolina, but fewer than 50 population range wide. The preponderance of their distribution is in North Carolina and their fate depends largely on conservation here. Also included are some species with 20-100 populations in North Carolina, if they also have only 50-100 populations rangewide and declining.”</td>
</tr>
<tr>
<td>-T</td>
<td>Throughout</td>
<td>“These species are rare throughout their ranges (fewer than 100 populations total)”</td>
</tr>
<tr>
<td>-P</td>
<td>Peripheral</td>
<td>“The species is at the periphery of its range in NC. These species are generally more common somewhere else in their ranges, occurring in North Carolina peripherally to their main ranges, mostly in habitats which are unusual in North Carolina.”</td>
</tr>
<tr>
<td>W1</td>
<td>Watch list</td>
<td>“Any other species believed to be rare and of conservation concern in the state but not warranting active monitoring at this time [... ]”</td>
</tr>
</tbody>
</table>
matches, but collector's name not indicated on label], 24 Jul 1925, Fr & Fl, ♠

w Carex glaucens Elliott
"Carex crinita Lam.; Margin, Big Savannah," Wells s.n., 4 Sep 1925, Fr & Fl, ♠

Cyperus retrorsus Chapm.
"Cyperus ovularis; Sta. 1, in low spot, Burgaw," Wells s.n. [handwriting and label match, but collector's name not indicated on label], 10 Jul 1925, Fr, ♣

w Fuirena breviseta (Coville) Coville
"Fuirena squarrosa Michx. var. breviseta Coville; Edge of Big Savannah," Wells s.n., 4 Sep 1924, Fr, ♠

w Fimbristylis puberula (Michx.) Vahl
"Fimbristylis spadicea; (not common) Moist area; Transit. Sta. 1; Burgaw," Martins s.n., No date, Fr, ♣

w Rhynchospora chapmanii M.A. Curtis
"Rhynchospora chapmanii M.A. Curtis; Big Savannah," Wells s.n., 2 Jul 1924, Fr, ♠

w Rhynchospora dliaris (Michx.) C. Mohr
"Rhynchospora fascicularis (Michx.) Vahl. [sic]; Big Savannah," Wells s.n., 4 Sep 1924, Fr, ♠

Rhynchospora gomerata (L.) Vahl
"Rhynchospora gomerata (L. (Vahl.) [sic]; Big Savannah," [label matches, but collector's name not indicated on label], 2 Jul 1924, Fr, ♠

Rhynchospora gomerata (L.) Vahl
"Rhynchospora gomerata L. (Vahl); Big Savannah," Wells s.n., 13 Jun 1925, Fr, ♠

Rhynchospora latifolia (Baldw. ex Elliott) W.W. Thomas
"Dichromena latifolia Baldw.; Big Savannah," Wells s.n., 2 Jul 1924, Fr, ♠

Rhynchospora latifolia (Baldw. ex Elliott) W.W. Thomas
"Dichromena latifolia Baldw.; Big Savannah," [label matches, but collector's name not indicated on label], 2 Jul 1924, Fr, ♠

w Rhynchospora nitens (Vahl) A. Gray
"Psiloxya nitens (Vahl) Wood; Road ditch, 'Big Savannah,' near Burgaw," Fox s.n., 19 Oct 1946, Fr, ♠

w Rhynchospora plumosa Elliott
"Rhynchospora semiplumosa A. Gray; Big Savannah," Wells s.n., 2 Jul 1924, Fr, ♠

w Rhynchospora plumosa Elliott
"Rhynchospora semiplumosa A. Gray; Big Savannah," Wells s.n., 12 Jun 1925, Fr, ♠

w Scleria muehlenbergii Steud.
"Scleria diliata Michx. var. dabra (Chapm.) Fairey; Scleria trichopoda; Trans. Sta. 1, Burgaw," Wells s.n., 10 Jul 1925, Fr, ♣

w Scleria muehlenbergii Steud.
"Scleria trichopoda C. Wright; Transition, Big Savannah," Wells s.n., 4 Sep 1924, Fr, ♠

w Scleria muehlenbergii Steud.
"Scleria trichopoda C. Wright; Trans., Big Savannah," [label matches, but collector's name not indicated on label], 4 Sep 1924, Fr, ♠

w Scleria muehlenbergii Steud.
"Scleria trichopoda C. Wright; Big Savannah," [label matches, but collector's name not indicated on label], 4 Sep 1924, Fr, ♠

w Scleria muehlenbergii Steud.
"Scleria trichopoda C. Wright; Big Savannah," [label matches, but collector's name not indicated on label], 4 Sep 1924, Fr, ♠

w Scleria muehlenbergii Steud.
"Scleria trichopoda C. Wright; Big Savannah," Wells s.n., 4 Sep 1924, Fr, ♠

w Scleria muehlenbergii Steud.
"Scleria trichopoda C. Wright; Big Savannah," Wells s.n., 4 Sep 1924, Fr, ♠

w Scleria muehlenbergii Steud.
"Scleria trichopoda C. Wright; Big Savannah," Wells s.n., 4 Sep 1924, Fr, ♠

w Scleria muehlenbergii Steud.
"Scleria trichopoda C. Wright; Big Savannah," Wells s.n., 4 Sep 1924, Fr, ♠
Scleria pauciflora Muhl. ex Willd. var. caroliniana (Willd.) Wood
“Scleria diliata Michx.; Big Savannah,” W. eels s.n., 18 May 1925, Fl, ♣

Scleria pauciflora Muhl. ex Willd. var. caroliniana (Willd.) Wood
“Scleria diliata Michx.; Big Savannah,” W. eels s.n., 18 May 1925, Fl, ♣

Scleria triglomerata Michx.
“Scleria triglomerata Michx.; Big Savannah,” W. eels s.n., 4 Apr 1925, Fl, ♣

Eriocaulon decangulare L.
“Eriocaulon decangulare; Big Savannah,” W. eels s.n., 2 Jul 1924, Fr, ♣

Eriocaulon decangulare L.
“Eriocaulon decangulare; Big Savannah,” [label matches, but collector’s name not indicated on label], 2 Jul 1924, Fr, ♣

Lachnanthes caroliniana (Lam.) Dandy
“Gyrotheca tinctoria (Walt.) Salisb.; Big Savannah,” W. eels s.n., 13 Jun 1925, Fr, ♣

IRIDACEAE
Iris tridentata Pursh
“Iris tridentata Walt.; Big Savannah,” W. eels s.n., 2 Jul 1924, Fr, ♣

Iris tridentata Pursh
“Iris tridentata Walt.; (trans. type), Big Savannah,” W. eels s.n., 18 May 1925, Fl, ♣

Iris tridentata Pursh
“Iris tridentata; Big Sav.,” W. eels s.n., 13 Jun 1925, Fl, ♣

Sisyrinchium capillare E.P. Bicknell
“Sisyrinchium mucronatum Michx.; Big Savannah,” W. eels s.n., 19 Apr 1925, Fl, ♣

Sisyrinchium fuscatum E.P. Bicknell
“Sisyrinchium angustifolium Mill.; Big Savannah,” W. eels s.n., 1 May 1925, Fl, ♣

JUNCACEAE
Juncus marginatus Rostk.
“Juncus aristulatus pinetorum (Michx.) Cov.; Near Big Sav.,” W. eels s.n., 13 Jun 1925, Fr, ♣

LILIACEAE
Aletris farinosa L.
“Aletris aurea Walt.; Big Savannah,” W. eels s.n., 2 Jul 1924, Fr, ♣

Aletris farinosa L.
“Aletris farinosa L.; Big Savannah,” W. eels s.n., 2 Jul 1924, Fr, ♣

Aletris farinosa L.
“Aletris farinosa L.; Big Savannah,” W. eels s.n., 18 May 1925, Fl, ♣

Lilium catesbaei Walt.
“Lilium catesbaei Walt.; Big Savannah,” W. eels s.n., 2 Jul 1924, Fr, ♣

Zigadenus densus (Desr.) Fernald
“Zigadenus densus [sic] glaberrimus Michx.; Big Savannah,” W. eels s.n., 2 Jul 1924, Fr, ♣

Zigadenus densus (Desr.) Fern.
“Zigadenus densus (Desr.) Fern.; Big Savannah,” W. eels s.n., 18 May 1925, Fl, ♣

Zigadenus glaberrimus Michx.
“Zigadenus glaberrimus Michx.; Big Savannah,” W. eels s.n., 2 Jul 1924, Fr, ♣

Zigadenus glaberrimus Michx.
“Zigadenus [sic] glaberrimus Michx.; Big Savannah,” W. eels s.n., 1 May 1925, Fl, ♣

OCHIDIDACEAE
Calopogon barbatus (Walt.) Ames
“Limodorum pallidum; Big Savannah,” W. eels s.n., 1 May 1925, Fl, ♣

Calopogon pallidus Chapm.
“Limodorum pallidum; Big Savannah,” W. eels s.n., 18 May 1925, Fl, ♣

Claustis divariata (L.) Ames
“Pogonia divariata Michx.; (Trans.) Big Savannah,”
Platanthera blephariglottis (Willd.) Lindl.
"Blephariglottis blephariglottis (Willd.) Ryd.; Big Savannah," W ells s.n., 2 Jul 1924, Fl, ♣

Platanthera cristata (Michx.) Lindl.
"Blephariglottis cristata (Michx.) Raf.; Big Savannah," W ells s.n., 2 Jul 1924, Fl, ♣

Platanthera lacera (Michx.) G. Don
"Blephariglottis lacera; Big Savannah," W ells s.n., 13 Jun 1925, Fl, ♣

Platanthera nivea (Nutt.) Luer
"Gymnadeniopsis nivea; Big Savannah," [label matches, but collector's name not indicated on label], 2 Jul 1924, Fl, ♣

Platanthera nivea (Nutt.) Luer
"Gymnadeniopsis nivea; Big Savannah," [label matches, but collector's name not indicated on label], 4 Sep 1924, Fr, ♣

Pogonia ophioglossoides (L.) Ker-Gawl.
"Pogonia ophioglossoides (L.) Ker-Gawl.; Big Savannah," W ells s.n., 1 May 1925, Fl, ♣

Pogonia ophioglossoides (L.) Ker-Gawl.
"Pogonia ophioglossoides (L.) Ker-Gawl.; Big Savannah," W ells s.n., 18 May 1925, Fl, ♣

Spiranthes floridana (Wherry) Cory
"Ibidium gracile (Bigel.) House; Big Savannah," W ells s.n., 18 May 1925, Fl, ♣

Spiranthes longiligris Lindl.
"Ibidium praexx (Walt.) House; Big Savannah," W ells s.n., 18 Oct 1924, Fl, ♣

Spiranthes praexx (Walt.) S. Watson
"Ibidium praexx; Sta. 1, Burgaw," W ells s.n. [handwriting, label, and date match, though collector's name not on label], 12 Jun 1925, Fr, ♣

Spiranthes vernalis Engelm. & A. G ray
"Ibidium gracile (Bigel.) House; Big Savannah," W ells s.n., 23 May 1925, Fl, ♣

Spiranthes vernalis Engelm. & A. G ray
"Ibidium praexx (Walt.) House; Big Savannah," W ells s.n., 23 May 1925, Fl, ♣

POACEAE

Agrostis hyemalis (Walt.) B.S.P.
"Agrostis hyemalis (Walt.) B.S.P.; Old field near Big Savannah," W ells s.n., 18 May 1925, Fr, ♣

Andropogon glomeratus (Walt.) B.S.P.
"Andropogon glomeratus; Low ground near swamp, Big Sav.," W ells s.n., 10 Jun 1926, Fr, ♣

Andropogon gyrans Ashe
"Andropogon diioli [sic]; Upper Big Savannah," Wells label, but his name crossed out; replacing name illegible, 28 Jan 1926, Fr, ♣

Anthaenantia rufa (Nutt.) J.A. Schultes
"Anthaenantia rufa; 2nd Transition – Big Savannah," W ells s.n., 11 Sep 1926, Fr, ♣

Aristida purpurascens Poir. var. virgata (Trin.) Allred
"Aristida purpurascens Poir. var. virgata (Trin.) Allred; Big Savannah; 2nd Transition – Big Savannah," W ells s.n., 4 Sep 1925, Fr, ♣

Chasmanthium laxum (L.) Yates
"Uniola laxa (L.) B.S.P.; Early Trans. Big Sav.," W ells s.n., 9 Sep 1925, Fr, ♣

Ctenium aromaticum (Walt.) Alph. Wood
"Campulosus aromaticus (Walt.) Scribn.; Big Savannah," [label matches, but collector's name not indicated on label], 2 Jul 1924, Fr, ♣

Ctenium aromaticum (Walt.) Alph. Wood
"Campulosus aromaticus (Walt.) Scribn.; Big Savannah," W ells s.n., 2 Jul 1924, Fr, ♣

Ctenium aromaticum (Walt.) Alph. Wood
"Campulosus aromaticus (Walt.) Scribn.; Big Savannah," [label matches, but collector's name not indicated on label], 2 Jul 1924, Fr, ♣
Dichanthelium aduncum (Desv. ex Poir.) Gould & C. A. Clark
"Panicum linearifolium Scribn.; Big Savannah," Wels s.n., May 1925, Fr, ♥

Dichanthelium acuminatum (Sw.) Gould & C. A. Clark
subsp. implicatum (Scribn.) Freckmann & Lelong
"Panicum uncinatum Trin. => oculatum Scribn.; R. R. Bank, Big Sav.," Wels s.n., 13 Jun 1925, Fr, ♥

Dichanthelium acuminatum (Sw.) Gould & C. A. Clark
subsp. implicatum (Scribn.) Freckmann & Lelong
"Panicum oculatum Scribn.; R. R. Bank near Big. Sav.," Wels s.n., 13 Jun 1925, Fr, ♦

Dichanthelium acuminatum (Sw.) Gould & C. A. Clark
subsp. longiligulatum (Nash) Freckmann
"Panicum longiligulatum Nash; Big Savannah," Wels s.n., 18 May 1925, Fr, ♦

Dichanthelium acuminatum (Sw.) Gould & C. A. Clark
subsp. longiligulatum (Nash) Freckmann
"Panicum wrightianum; Big Sav.," Wels s.n., 13 Jun 1925, Fr, ♦

Dichanthelium acuminatum (Sw.) Gould & C. A. Clark
subsp. longiligulatum (Nash) Freckmann
"Panicum longiligulatum Nash; Big Savannah," Wels s.n., 13 Jun 1925, Fr, ♦

Dichanthelium acuminatum (Sw.) Gould & C. A. Clark
subsp. leucothrix (Nash) Freckmann & Lelong
"Panicum leucothrix Nash; Big Savannah," Wels s.n., 20 May 1925, Fr, ♦

Dichanthelium acuminatum (Sw.) Gould & C. A. Clark
subsp. leucothrix (Nash) Freckmann & Lelong
"Panicum wrightianum; Big Sav.," Wels s.n., 13 Jun 1925, Fr, ♦

Dichanthelium acuminatum (Sw.) Gould & C. A. Clark
subsp. leucothrix (Nash) Freckmann & Lelong
"Panicum longiligulatum Nash; Big Savannah," Wels s.n., 13 Jun 1925, Fr, ♦

Dichanthelium consanguineum (Kunth) Gould & C. A. Clark
"Panicum consanguineum Kunth; Margin, Big Savannah," Wels s.n., 30 Apr 1925, Fr, ♥

Dichanthelium consanguineum (Kunth) Gould & C. A. Clark
"Panicum consanguineum Kunth; Transition, Big Savannah," Wels s.n., 1 May 1925, Fr, ♥

Dichanthelium dichotomum (L.) Gould subsp. roanokense (Ashe) Freckmann & Lelong
"Panicum roanokense Ashe; 2nd Trans., Big Savannah," Wels s.n., 11 Jun 1926, Fr, ♦

Dichanthelium ensifolium (L.) Gould subsp. ensifolium
"Panicum ensifolium Baldw.; Big Savannah," Wels s.n., 1 May 1925, Fr, ♥

Dichanthelium portoricense (Desv. ex Ham.) B. F. Hansen & Wunderlin subsp. patulum (Scribn. & Merr.) Freckmann & Lelong
"Panicum nashianum; R. R. Bank, Big Sav.," Wels s.n., 13 Jun 1925, Fr, ♦

Dichanthelium portoricense (Desv. ex Ham.) B. F. Hansen & Wunderlin subsp. patulum (Scribn. & Merr.) Freckmann & Lelong
"Panicum nashianum Scribn. => lancearium; Woods and ditch banks, Big Savannah," Wels s.n., 8 Oct 1925, Fr, ♦

Dichanthelium scoparium (Lam.) Gould
"Panicum scoparium Lam.; R. R. bank, Big Savannah," Wels s.n., 8 Oct 1925, Fr, ♦

Dichanthelium strigosum (Muhl. ex Elliott) Freckmann subsp. strigosum
"Panicum strigosum Ell. => strigosum Muhl.; Big Savannah," Wels s.n., 13 Jun 1926, Fr, ♦

Dichanthelium strigosum (Muhl. ex Elliott) Freckmann subsp. strigosum
"Panicum strigosum Ell.; Ditchbank, Big Savannah," Wels s.n., 13 Jun 1925, Fr, •

Dichanthelium wrightianum (Scribn.) Freckmann
"Panicum wrightianum Scribn.; Big Savannah," Wels s.n., 20 May 1925, Fr, ♦

Dichanthelium wrightianum (Scribn.) Freckmann
"Panicum wrightianum; Big Savannah," Wels s.n., 8 Oct 1925, Fr, ♦
Muhlenberga capillaris (Lam.) Trin. var. trichopodes (Elliott) Vasey
"Muhlenberga expansa (Lam.) Trin.; Big Savannah," [handwriting and label match, but collector's name not indicated on label], 2 Jul 1924, Fr, •

Muhlenberga capillaris (Lam.) Trin. var. trichopodes (Elliott) Vasey
"Muhlenberga expansa; Big Savannah," W ells s.n., 2 Jul 1924, Fr, •

Paniceum aniceps Michx. var. rhizomatum (Hitchc. & Chase) Freckmann & Lelong
"Paniceum rhizomatum Hitchc.; Early Trans., Big Sav.," Wells s.n., 4 Sep 1924, Fr, •

Paniceum virgatum L.
"Paniceum virgatum L.; Big Savannah," [handwriting and label match, but collector's name not indicated on label], 2 Jul 1924, Fr, •

Paniceum virgatum L.
"Paniceum virgatum L.; Big Savannah," [handwriting and label match, but collector's name not indicated on label], 2 Jul 1924, Fr, •

Paniceum virgatum L.
"Paniceum virgatum cubense; Big Savannah," [handwriting and label match, but collector's name not indicated on label], 2 Jul 1924, Fr, •

Paniceum virgatum L.
"Paniceum virgatum cubense; O.S., Big Savannah," [handwriting and label match, but collector's name not indicated on label], 2 Jul 1924, Fr, •

Paniceum virgatum L.
"Paniceum virgatum L.; Margin, Big Savannah," W ells s.n., 17 May 1925, Fr, •

Paniceum virgatum L.
"Paniceum virgatum L.; Big Sav. Trans.," W ells s.n., 20 May 1925, Fr, •

Saccharum giganteum (Walt.) Pers.
"E rianthus compactus Nash; Margin, Big Sav.," W ells s.n., 8 Oct 1925, Fr, •

Schizachyrium scoparium (Michx.) Nash subsp. scoparium
"A ndropogon scoparius; Margin Big. Sav.," W ells s.n., 8 Oct 1925, Fr, •

Sorghastrum nutans (L.) Nash
"Sorghastrum nutans (L.) Nash; Margin, Big Sav.," W ells s.n., 8 Oct 1925, Fr, •

Indet.
"Muhlenberga expansa; Big Savannah," [handwriting and label match, but collector's name not indicated on label], 2 Jul 1924, St, ♣

XYRIDACEAE

Xyris ambigua Beyr. ex. Kunth
"X yris ambigua Beyr.; Big Savannah," [handwriting and label match, but collector's name not indicated on label], 2 Jul 1924, Fl (imm), •

Xyris ambigua Beyr. ex. Kunth
"X yris flexuosa Muhl. => X yris ambigua Beyr.; Big Savannah," [handwriting and label match, but collector's name not indicated on label], 2 Jul 1924, Imm, •

Xyris ambigua Beyr. ex. Kunth
"X yris ambigua Beyr.; Big Sav.," Wells s.n., 29 Jul 1924, Fr, •

Xyris baldwiniana J.A. Schultes
"X yris baldwiniana R. & S.; Big Sav.," W ells s.n., 13 Jun 1925, Fr, •

Xyris caroliniana Walt.
"X yris flexuosa Muhl.; Big Savannah," [handwriting and label match, but collector's name not indicated on label], 2 Jul 1924, Fl, •

Eudicots

APIACEAE

Eryngium integrifolium Walt.
"Eryngium integrifolium Walt.; Big Savannah," W ells s.n., 12 Sep 1924, Fl, •

Eryngium yuccifolium Michx.
"Eryngium aquaticum L.; Big Savannah," W ells s.n., 2 Jul 1924, Fl, •

Eryngium yuccifolium Michx.
"Eryngium aquaticum L.; Big Savannah," [handwriting and label match, but collector's name not indicated on label], 2 Jul 1924, Fl, •

Oxypolis filiformis (Walt.) Britton
"Oxypolis filiformis (Walt.) Britton; Big Savannah," W ells s.n., 4 Sep 1924
Oxypolis filiformis (Walt.) Britton
“Oxypolis filiformis (Walt.) Britton; Big Savannah,” W els s.n., 4 Sep 1924

Oxypolis filiformis (Walt.) Britton
“Oxypolis filiformis (Walt.) Britton; Big Savannah,” W els s.n., 4 Sep 1924

APOCYNACEAE
Asclepias lanceolata
“Asclepias rubra L. => lanceolata Walt.; Near Big Sav.,” Wells s.n., 13 Jun 1925, Fl,

Asteraceae
Carphephorus paniculatus (J.F. Gmelin) Hebert
“Trilisia paniculata (Walt.) Cass.; Margin Big Sav.,” Wells s.n., 8 Oct 1925, Fl,

Avena myrtifolia Walt.
“Ilex myrtifolia; Big Savannah,” W els s.n., 21 May 1925, Fl,

ERIGEBRACHIAE
Eupatorium leucolepis (DC.) Torr. & A. Gray
“Eupatorium mohrii Greene; Trans., Big Sav.,” Wells s.n., 4 Sep 1925, Fl & Fr,

Eupatorium rotundifolium L.
“Eupatorium rotundifolium; Big Savannah,” W els s.n., 2 Jul 1924, St,

Helianthus heterophyllus Nutt.
“E helianthus heterophyllus; Big Savannah,” W els s.n., 4 Sep 1925, Fl,

Helenium pinnatifidum (Nutt.) Rydb.
“Helenium vernale Walt.; Big Savannah,” W els s.n., 21 May 1925, Fl,

Helenium pseudos (Aiton) Nesom
“Helenium pseudos; Big Savannah,” W els s.n., 1 May 1925, Fl,

Liatris pilosa (Aiton) Willd. var. graminifolia (Willd.)
“Lactaria graminifolia (Walt.) Kuntz; Margin, Big Sav.,” W els s.n., 8 Oct 1925, Fl & Fr,
Liatris spicata (L.) Willd. var. resinosa (Nutt.) Gaiser
"L. adenaria filibrata Small; Big Savannah," W ells s.n., 12 Sep 1924, Fl & Fr, ♦

Liatris spicata (L.) Willd. var. resinosa (Nutt.) Gaiser
"L. adenaria spicata; Not frequent, OS, Big Sav.," W ells s.n., 8 Oct 1925, Fl & Fr, ♦

Liatris spicata (L.) Willd. var. resinosa (Nutt.) Gaiser
"L. adenaria filibrata Small => webbsii Alexander => flabellata Small; Big Sav.," Wells s.n., 8 Oct 1925, Fl & Fr, ♦

Lacinaria flabellata Small; Big Savannah,
"Lacinaria spicata; Not frequent, OS, Big Sav.," Wells s.n., 8 Oct 1925, Fl & Fr, ♦

Lacinaria flabellata Small => webbsii Alexander => flabellata Small; Big Sav.,
"Lacinaria flabellata Small; Big Savannah," Wells s.n., 8 Oct 1925, Fl & Fr, ♦

Marshallia graminifolia (Walt.) Small
"Marshallia williamsonii Small; Big Savannah," [label matches, but collector’s name not indicated on label], 4 Sep 1924, Fl, ♦

Marshallia graminifolia (Walt.) Small
"Marshallia williamsonii Small; Big Savannah," Wells s.n., 4 Sep 1924, Fl, ♦

Marshallia graminifolia (Walt.) Small
"Marshallia williamsonii Small; Big Savannah," Wells s.n., 4 Sep 1924, Fl, ♦

Prenanthes autumnalis Walt.
"N. abalus virgatus (Michx.) DC.; Big Savannah,
"Prenanthes autumnalis Walt.; Big Savannah near Burgaw," Boyce, Wells, and Shunk 1573 [Mixed material under this number, each on a separate sheet], 13 Oct 1950, Fl & Fr, ♦

Solidago puberula Nutt. var. pulverulenta Chapm.
"Solidago puberula Nutt. var. pulverulenta (Nutt.) Chapm.; Big Savannah near Burgaw," Boyce, W ells, and Shunk 1574, 13 Oct 1950, Fl, ♦

Solidago puberula Nutt. var. pulverulenta Chapm.
"Solidago salicina Ell. => stricta ?; Big Savannah," [handwriting and label match, but collector’s name not indicated on label], 4 Sep 1924, Fl & Fr, ♦

Solidago puberula Nutt. var. pulverulenta Chapm.
"Solidago patula Muhl. ?; Margin, Big Sav.," W ells s.n., 4 Sep 1925, Fl, ♦

Closing pages
"Lespedeza capitata L.; Trans. Big Sav.," Wells s.n., 4 Sep. 1925, Fl, ♣

Zornia bracteata J.F. Gmelin
"Zornia bracteata; Sta. 1, Burgaw," Wells s.n. [handwriting and label match, but collector's name not indicated on label], 1925, Fl, ♣

FAGACEAE
Quercus laevis Walt.
"Quercus catesbaei; Sta. 1, Burgaw," Wells s.n. [handwriting and label match, but collector's name not indicated on label], 1925, St, ♣

GENTIANACEAE
Sabatia campanulata (L.) Torr.
"Sabbatia [sic] campanulata (L.) Britton; Big Savannah," Wells s.n., 2 Jul 1924, Fl, ♥

Sabatia campanulata (L.) Torr.
"Sabbatia [sic] campanulata (L.) Britton; Big Savannah," Wells s.n., 13 Jun 1925, Fl, ♥

Sabatia campanulata (L.) Torr.
"Sabbatia [sic] angustifolia (Michx.) Britton; Big Savannah," Wells s.n., Aug 1925, Fl, ♥

Sabatia difformis (L.) Druce
"Sabatia paniculata (Michx.) Pursh => lanceolata (Walt.) T. & G.; Big Savannah," Wells s.n., 2 Jul 1924, Fl, ♥

Sabatia difformis (L.) Druce
"Sabatia angularis (L.) Pursh => paniculata (Michx.) Pursh; Big Savannah," Wells s.n., 2 Jul 1924, Fl, ♥

Sabatia gentianoides Elliott
"Sabatia dodecandra; Margin Big Sav.," Wells s.n., 24 Jul 1925, Fl, ♥

HYPERICACEAE
Hypericum galioides Lam.
"Hypericum ambiguum; Margin Big Sav.," Wells s.n., 7 Jul (no yr: 1924?), Fl & Fr, ♥

Hypericum reductum W.P. Adams
"Hypericum aspalathoides Willd.; Big Savannah," Wells s.n., 2 Jul 1924, Fl, ♥

LENTIBULARIACEAE
Pinguicula oerula Walt.
"Pinguicula elatior Michx.; Big Savannah," Wells s.n., 4 Apr 1925, St (but with infl stalk), ♥

Pinguicula lutea Walt.
"Pinguicula lutea Walt.; Big Savannah," Wells s.n., 2 Jul 1924, Fl, ♥ SR-P

LINACEAE
Linum floridanum (Planch.) Trel.
"Carhartolinum medium (Planch [sic]) Small; Big Savannah," Wells s.n., 2 Jul 1924, Fl imm, ♥ SR-T

Linum floridanum (Planch.) Trel.
"Carhartolinum medium; Big Savannah," Wells s.n., 2 Jul 1924, Fr, ♥ SR-P

MAGNOLIACEAE
Magnolia virginiana L.
"Magnolia virginiana (L.) [sic]; Big Savannah, Burgaw," Buell s.n., 16 Apr 1938, Fl, ♣

MELASTOMATACEAE
Rhexia alifanus Walt.
"Rhexia A lifanus Walt.; Big Savannah," Wells s.n., 2 Jul 1924, Fl, ♥

Rhexia lutea Walt.
"Rhexia lutea Walt.; Big Savannah," Wells s.n., 2 Jul 1924, Fr, ♥

Rhexia petiolata Walt.
"Rhexia lutea Walt.; Big Sav.," Wells s.n., 13 Jun 1925, Fl, ♥

ONAGRACEAE
Ludwigia hirtella Raf.
"Ludwigia hirtella Raf.; Big Savannah," Wells s.n., 2 Jul 1924, Fl, ♥
Ludwigia hirtella Raf.
"Ludwigia hirtella Raf.; Big Savannah," [label matches, but collector's name not indicated on label], 2 Jul 1924, Fl, •

**OROBANCHACEAE**
A galins liniōlia (Nutt.) Britton
"Gerardia liniōlia Nutt.; Big Savannah," [label matches, but collector's name not indicated on label], 4 Sep 1924, Fr, •

A galins liniōlia (Nutt.) Britton
"Gerardia liniōlia Nutt.; Big Savannah," W els s.n., 4 Sep 1925, Fl & Fr, •

A galins liniōlia (Nutt.) Britton
"Gerardia liniōlia Nutt.; Big Savannah," W els s.n., 4 Sep 1925, Fl, •

A galins liniōlia (Nutt.) Britton
"Gerardia liniōlia Nutt.; Big Savannah," W els s.n., 4 Sep 1924, Fl & Fr, •

Agalinis liniōlia (Nutt.) Britton
"Gerardia liniōlia Nutt.; Big Savannah," W els s.n., 4 Sep 1924, Fl, •

Agalinis liniōlia (Nutt.) Britton
"Gerardia liniōlia Nutt.; Big Savannah," W els s.n., 4 Sep 1925, Fl, •

Agalinis obtusifolia Raf.
"Gerardia divaricata Chap. [sic] => erecta Walt.; Big Savannah," W els s.n., 4 Sep 1924, Fl, •

A galins obtusifolia Raf.
"Gerardia divaricata Chapm. => erecta (Walt.) [sic]; Big Sav.," W els s.n., 4 Sep 1925, Fl, •

A galins purpurea (L.) Pennell
"Gerardia purpurea L.; Big Savannah," W els s.n., 8 O ct 1925, Fl, •

A galins virgōta Raf.
"Gerardia virgōta Raf.; Big Savannah," W els s.n., [no date], Fl & Fr, •

Seymeria cassioides (J.F. Gmelin) S.F. Blake
"A fælia cassioides (Walt.) J.F. Gmel.; Trans. Big Savannah," W els s.n., 3 Sep 1925, Fl, •

Seymeria cassioides (J.F. Gmelin) S.F. Blake
"A fælia cassioides (Walt.) J.F. Gmel.; Big Savannah," W els s.n., 3 Sep 1924, Fl, •

Seymeria cassioides (J.F. Gmelin) S.F. Blake
"A fælia cassioides; Fruit; Margin, Big Sav.," W els s.n., 8 Oct 1926, Fr, •

**POLYGALACEAE**
Polygala cymosa Walt.
"Polygala cymosa Walt.; Big Savannah," W els s.n., 2 Jul 1924, Fl & Fr, •

Polygala hookeri Torr. & A. Gray
"Polygala brevifolia Nutt.; Big Savannah," W els s.n., 2 Jul 1924, Fl, •

Polygala lutea L.
"Polygala lutea L.; Big Savannah," W els s.n., 2 Jul 1924, Fl, •

Polygala lutea L.
"Polygala lutea L.; Big Savannah," [label matches, but collector's name not indicated on label], 2 Jul 1924, Fl, •

Polygala lutea L.
"Polygala lutea L.; Big Savannah," W els s.n., 2 Jul 1924, Fl, •

Polygala lutea L.
"Polygala lutea L.; Big Savannah," [handwriting and label match, but collector's name not indicated on label], 12 Jun 1925, Fl, •

Polygala mariana Mill.
"Polygala sp. => mariana Mill.; Big Savannah," W els s.n., 2 Jul 1924, Fl, •

Polygala ramosa Elliott
"Polygala ramosa Ell.; Big Savannah," W els s.n., 2 Jul 1924, Fl & Fr, •

Polygala ramosa Elliott
"Polygala ramosa; Big Sav.," W els s.n., 25 Aug (no yr), Fl & Fr, •

**PRIMULACEAE**
*Lysimachia loomsi Torr.
"Lysimachia loomsi; (Transitions) Big Savannah," W els s.n., 18 May 1925, Fl, •

*Lysimachia loomsi Torr.
"Lysimachia loomsi Torr.; Big Sav. Transitions," W els s.n., 23 May 1925, Fl, •

**RUBIACEAE**
Oldenlandia uniflora L.
"Oldenlandia uniflora; Sta. 1, Burgaw," W els s.n.
Study of the Wells collections at NCSC allows resolution of some, but not all curiosities appearing in Wells & Shunk (1928). Wells & Shunk (1928) cited "Juncus aristulatus var. tinctorum" as a component of the Panicum consocies (or bog transition). The origin of this varietal name had remained a mystery (LeBlond, unpubl.). However, the Wells collection at NCSC includes a specimen originally determined as "Juncus aristulatus pinetorum." The varietal name was handwritten and likely later erroneously published as tinctorum by Wells & Shunk (1928). This name and the Wells specimen belong to Juncus marginatus Rostk. following Brooks & Clemants (2000).

"Lobelia amoena" is also cited by Wells & Shunk (1928) as a component of the Panicum consocies. However, Lobelia amoena Michx. is known in North Carolina only from the mountains (Radford et al. 1968). The Wells collection originally so determined is actually referable to L. glandulosa Walt. – this latter species known from Coastal Plain savannas, bogs, swamp forests, and marshes (Radford et al. 1968).

"Sabatia angularis" is another taxon cited by Wells & Shunk (1928) as a component of the Panicum consocies. However, LeBlond (unpubl.) noted that this species had not yet been recorded for Pender Co. as of 1968 (see Radford et al. 1968) – unless overlooked. The species occurs throughout North Carolina, however the Wells specimen originally so determined is referable to Sabatia difformis (L.) Druce.

"Sabatia paniculata" was cited as a component of the Campulosus consocies by Wells & Shunk (1928). However, the Wells collection originally so determined is also referable to Sabatia difformis (L.) Druce. LeBlond (unpubl.) noted that Sabatia paniculata is a synonym of S. brevifolia Raf., a plant not reaching further north than South Carolina (see Radford et al. 1968).

"Scleria ciliata" was also cited by Wells & Shunk (1928) from the Campulosus consocies. LeBlond (unpubl.) noted that S. ciliata Michx. var. ciliata is unknown from the North Carolina outer Coastal Plain whereas var. glabra (Chapm.) Fairey is the most common occurrence there. This latter taxon is represented in the Wells collection by a single specimen (Wells s.n., 10 Jul 1925), originally deter-
mined “Scleria trichopoda.” The specimens originally determined “Scleria eliata” (Wells s.n.: 2 Jul 1924 & 18 May 1925 [2 sheets]) were referred to S. pauciflora Muhl. ex Willd. var. caroliniana (Willd.) Wood by Fairey (see also Rezicek et al. 2002).

Specimens originally determined as Eryngium aquaticum L. are referable to E. yuccifolium Michx. Eryngium aquaticum var. ravenellii (A. Gray) Mathias & Constance is known from North Carolina Coastal Plain savannas (Weakley 2005), but is not represented by vouchers in the Wells collection.

Hypericum species are represented in the Wells collection by H. crux-andreae (L.) Crantz, H. dentatum Walt., H. galioides Lam., and H. reductum (Svens.) W.P. Adams. LeBlond (unpubl.) noted that the “Hypericum reductum” of Big Savannah may likely belong to an undescribed taxon (Hypericum sp. 2 in Weakley 2005). Unfortunately, the specimen does not bear fruit, requisite for diagnosis following the key in Weakley (2005). Until further studies of the Hypericum sp. 2/ H. reductum complex are complete, the Wells collection remains referred to H. reductum.

Unfortunately, a number of taxa cited for Big Savannah by Wells & Shunk (1928) appear to remain unvouchedered (Table 3), making resolution of taxonomic problems difficult. Hopefully, additional study of the existing specimens, along with the community descriptions provided by Wells & Shunk (1928), may at least provide an insightful baseline for restoration efforts of this apparently extirpated community type.

Literature Cited


LeBlond, R. unpubl. Big Savanna plant species list (from Wells and Shunk 1928) combined with Pellam Road Powerline Savanna species list (through 9/20/03). Courtesy of the author, North Carolina Natural Heritage Program, Raleigh.


