

ANNOTATED LIST OF THE FERNS AND FERN ALLIES OF ARKANSAS¹

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Records of ferns and fern allies in Arkansas date back to the travels and collections of Nuttall (1821, 1835). In 1835, Nuttall reported 23 species of pteridophytes from the Arkansas Territory. Lesquereux (1860) recorded 35 species for the state as part of a geological survey. Harvey (1881) compiled an annotated list of Arkansas ferns with notes on the ranges and habitats of 40 taxa. In a list of Arkansas plants, Branner and Coville (1891) included 45 species of ferns and fern allies.

Buchholz (1924) made deletions from and additions to the lists of Harvey and Branner and Coville to arrive at 46 species and 3 varieties of pteridophytes for Arkansas. Buchholz's study was immediately followed by Palmer's (1924) report of two new species for the state. These additions were incorporated in a supplement of the Arkansas plants by Buchholz and Palmer (1926) which lists 15 pteridophytes. Scully (1937, 1939) produced two papers describing the ferns and fern allies found in and around Hot Springs National Park.

The most recent account of the Arkansas pteridophytes was written by Moore (1940). It includes an annotated list of 67 species and lesser taxa. Moore (1941) also published a paper entitled "Some Noteworthy Fern Communities of Arkansas" which contains lists of species found in five different localities within the Interior Highlands. The latest, statewide, compilatory list available on all Arkansas vascular plants is by Smith (1978). This work includes distribution maps for 70 ferns and fern allies.

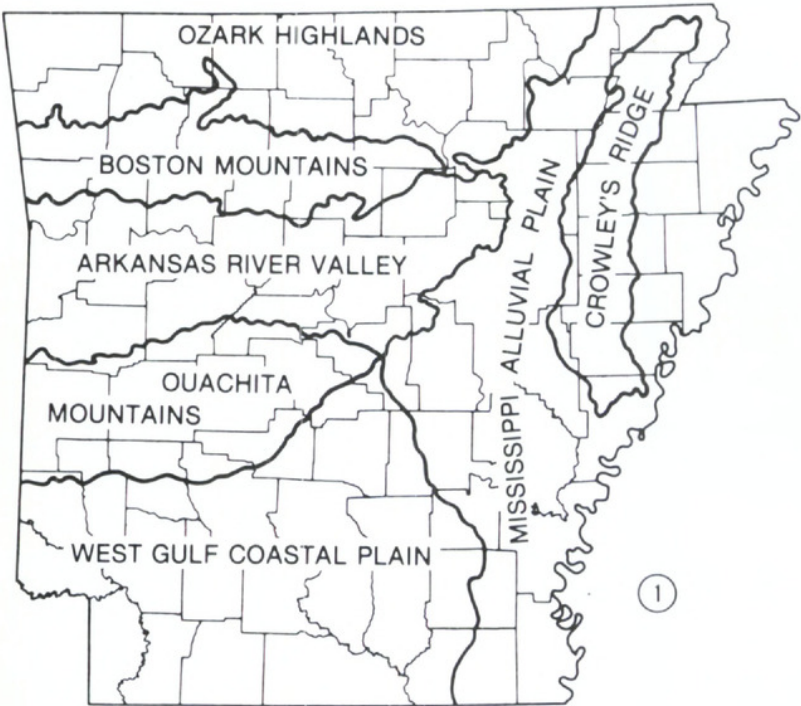
Since the early 1940's, thousands of voucher specimens have been added to herbaria and taxonomic research has resulted in a number of nomenclatural changes. Over a dozen additional taxa have been discovered in the state including those reported by Chandler (1941), Moore (1947, 1950, 1951), Wagner (1962), Bowers and Redfearn (1967), Farrar and Redfearn (1968), Tucker (1971), Thomas (1976), and Buck (1977). These additions and changes make it desirable to provide an up-to-date account of the Arkansas pteridophytes.

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TABLE 1. List of Herbaria Examined²

(APCR)	Arkansas Polytechnic College Russellville, Arkansas
(ARKSU)	Arkansas State University Jonesboro, Arkansas
(F)	Field Museum of Natural History Chicago, Illinois
(HXC)	Hendrix College Conway, Arkansas
(MO)	Missouri Botanical Garden St. Louis, Missouri
(MEM)	Memphis State University Memphis, Tennessee
(NLU)	Northeast Louisiana University Monroe, Louisiana
(NY)	New York Botanical Garden Bronx, New York
(PH)	Academy of Natural Sciences Philadelphia, Pennsylvania
(SIU)	Southern Illinois University Carbondale, Illinois
(SMS)	Southwest Missouri State University Springfield, Missouri
(SMU)	Southern Methodist University Dallas, Texas
(UARK)	University of Arkansas Fayetteville, Arkansas
(UCA)	University of Central Arkansas Conway, Arkansas
(US)	Smithsonian Institution Washington, D.C.

²Abbreviations mostly after Holmgren and Keuken (1974).



The sequence of families and genera listed in this paper follows Crabbe, Jermy, and Mickel (1975). Lesser taxa are arranged alphabetically under the genus. Synonyms that have been applied to Arkansas material are given in brackets. Data gathered from personal collections and specimens contained in the herbaria listed in Table I were used to develop habitat descriptions and distribution maps for the various taxa.

Arkansas can be divided into several physiographic regions based on differences in topography, geology, soil associations, and forest types (Foti, 1974). In Figure 1, the Interior Highlands are divided into the Ozark Highlands, the Boston Mountains, the Arkansas River Valley, and the Ouachita Mountains, while the Gulf Coastal Plain Lowlands are divided into the West Gulf Coastal Plain, the Mississippi Alluvial Plain, and Crowley's Ridge. Many species of Arkansas pteridophytes show distribution patterns which correspond to these physiographic regions. These regions are mentioned when they are useful in characterizing distribution patterns.

A representative specimen is cited for each county in which the species, hybrid, or infraspecific taxon has been collected (see Figure 2 for map of Arkansas counties). Dot maps, which depict the cited specimens, are included near the end of this paper.

Remarks on some doubtful and excluded taxa follow the annotated list.

ANNOTATED LIST OF ARKANSAS PTERIDOPHYTA

LYCOPODIACEAE

1. ***Lycopodium appressum*** (Chapm.) Lloyd & Underw., Bull. Torrey Bot. Club 27: 153. 1900. [*Lycopodium inundatum* var. *bigelovii* Tuckerm.; *Lycopodium inundatum* var. *appressum* Chapm.]

Moist to wet, sandy, disturbed soil along streams and railroad tracks, at edges of lakes, in open pine woods, waste ground, and sandy bogs; West Gulf Coastal Plain.

Clark Co.: Taylor 2172 (SIU). Hempstead Co.: D. Moore 490062 (UARK). Ouachita Co.: Taylor 2627 (SIU). Saline Co.: Young 1513 (UCA). Union Co.: D. Moore 6264 (APCR).

2. ***Lycopodium lucidulum*** Michx., Fl. Bor. Am. 2: 284. 1803.

North-facing, shaded, sandstone outcrops in the Boston Mountains.

Franklin Co.: lower talus slope; Spy Rock Hollow; sect. 20, T12N, R26W; *Redfearn 21148* (SMS). Madison Co.: tributaries to Mulberry Creek; sect. 1-12, T13N, R24-25W; *Redfearn 18553* (SMS). Newton Co.: narrow ravine along upper reaches of Terrapin Branch; sect. 26, T14N, R23W; *Redfearn & Weber 27493* (SMS).

SELAGINELLACEAE

3. ***Selaginella apoda* (L.) Spring** (as "apus") in Mart., Fl. Bras. 1(2): 119. 1840. [*Lycopodium apodum* L.; *Diplostachyum apodum* (L.) Beauv.; *Selaginella apoda* (L.) Fern.]

Moist to wet, usually shaded, sandstone and shale outcrops, low meadows, seepage areas, and sandy or clayey soils along stream banks.

Ashley Co.: *Taylor 1874* (SIU). Clark Co.: *Redfearn 24404* (SMS). Cleburne Co.: *Babb 1023* (ARKSU). Drew Co.: *Demaree 17899* (MO). Faulkner Co.: *Taylor 2008* (SIU). Garland Co.: *Taylor 2557* (SIU). Greene Co.: *D. Moore 480681* (UARK). Hempstead Co.: *D. Moore 56128* (UARK). Hot Spring Co.: *Taylor 936* (SIU). Howard Co.: *Ilitis 680* (UARK). Little River Co.: *D. Moore 50021* (UARK). Logan Co.: *Taylor 1044* (SIU). Montgomery Co.: *D. Moore 430154* (UARK). Perry Co.: *Issacs 3319* (UCA). Polk Co.: *J. Moore 3145* (UCA). Pope Co.: *D. Moore 520759* (UARK). Randolph Co.: *Taylor 2665* (SIU). Sevier Co.: *D. Moore 510094* (UARK). Union Co.: *Taylor 2631* (SIU). Van Buren Co.: *Johnson 292* (HXC). Washington Co.: *French 269* (UARK).

4. ***Selaginella eclipses* Buck**, Can. J. Bot. 55: 366. 1977.

Moist to wet, usually shaded, calcareous rock outcrops; Ozark Highlands and Boston Mountains.

Benton Co.: *D. Moore 321202* (UARK). Crawford Co.: *Taylor 1096* (SIU). Franklin Co.: *Redfearn 23699* (SMS). Fulton Co.: *Redfearn 26438* (SMS). Izard Co.: *Taylor 1268* (SIU). Madison Co.: *Redfearn 18857* (SMS). Marion Co.: *D. Moore 350165* (UARK). Newton Co.: *Taylor 2690* (SIU). Searcy Co.: *Redfearn 14273* (SMS). Stone Co.: *D. Moore 450810* (UARK). Washington Co.: *Callicott s.n.* (UARK).

5. ***Selaginella riddellii* Van Eselt.**, Contr. U.S. Nat. Herb. 20: 162. 1918. [*Selaginella arenicola* subsp. *riddellii* (Van Eselt.) Tryon]

Sandy, open soil.

Nevada Co.: roadside along Hwy. 24; ca. 0.3 mi. E of Bluff City; *Taylor 2747* (SIU). Ouachita Co.: hillside; ca. 0.5 mi. N of Chidester Baptist Church, Chidester and dumping ground along Hwy. 368; ca. 1.7 mi. W of jct. Hwys. 24 & 368; *Taylor 2743* (SIU). Pike Co.: outcrops along Little Missouri River; NW¼ sect. 6, T5S, R27W; *Roberts & Bradford s.n.* (UARK). Pope Co.: sandstone bluffs above Arkansas River; Norristown Mountain, Russellville; *Tucker 6563* (SMU).

6. ***Selaginella rupestris* (L.) Spring**, Flora 21: 149, 182. 1838. [*Lycopodium rupestre* L.]

Exposed, sandstone outcrops.

Baxter Co.: *Tucker 6809* (APCR). Benton Co.: *D. Moore 350203* (MO). Carroll Co.: *Haas 1516* (UCA). Cleburne Co.: *Babb 1580* (ARKSU). Conway Co.: *J. Moore 1097*

(UARK). Independence Co.: *Demaree* 59791 (SMU). Izard Co.: *Demaree* 32518 (MO). Marion Co.: *Redfearn* 08163 (SMS). Newton Co.: *D. Moore* 32490 (UARK). Pope Co.: *Redfearn* 26772 (SMS). Searcy Co.: *D. Moore* 350160 (MO).

ISOETACEAE

7. *Isoetes butleri* Engelm., Bot. Gaz. 3: 1. 1878.

Seasonally moist to wet calcareous soil pockets on limestone glades and dolomite, calcareous shale, or chalk outcrops.

Carroll Co.: *Bush* 1350 (MO). Little River Co.: *D. Moore* 50040 (UARK). Madison Co.: *Haas* 1519 (UCA). Newton Co.: *Taylor* 1228 (SIU). Polk Co.: *J. Moore* 3147 (UCA). Pulaski Co.: *Harper* 17 (PH). Sebastian Co.: *D. Moore* 490016 (UARK). Sharp Co.: *Hartsoe* 333 (SMU). Stone Co.: *D. Moore* 470698 (UARK). Washington Co.: *D. Moore* 53186 (UARK). Yell Co.: *Buchholz* s.n. (UARK).

8. *Isoetes melanopoda* Gay & Dur., Bull. Soc. Bot. Fr. 11: 102. 1864.

Seasonally moist to wet woods, meadows, fields, margins of ponds, roadside ditches, and thin soil depressions on sandstone, shale, or igneous rock outcrops.

Arkansas Co.: *D. Moore* 510225 (UARK). Baxter Co.: *J. Moore* 5677 (UCA). Benton Co.: *D. Moore* 400259 (UARK). Cleburne Co.: *Taylor* 1011 (SIU). Conway Co.: *Demaree* 23119 (MO). Faulkner Co.: *Taylor* 2006 (SIU). Fulton Co.: *D. Moore* 330226 (UARK). Garland Co.: *Palmer* 24921 (UARK). Grant Co.: *Locke* 2513 (UARK). Independence Co.: *D. Moore* 450503 (APCR). Izard Co.: *Taylor* 2117 (SIU). Johnson Co.: *D. Moore* 380015 (UARK). Logan Co.: *Taylor* 1043 (SIU). Madison Co.: *D. Moore* 32320 (UARK). Marion Co.: *D. Moore* 390302 (UARK). Newton Co.: *D. Moore* 350181 (UARK). Polk Co.: *J. Moore* 3147 (UCA). Pope Co.: *Taylor* 2703 (SIU). Pulaski Co.: *Demaree* 18801 (MO). Saline Co.: *D. Moore* 480157 (UARK). Van Buren Co.: *Johnson* 296 (HXC). Washington Co.: *Palmer* 24755 (MO).

The pale-based form, *Isoetes melanopoda* f. *pallida* (Engelm.) Clute, is often found growing with the typical black-based form.

EQUISETACEAE

9. *Equisetum arvense* L., Sp. Pl. 2: 1601. 1753.

Sandy or gravelly stream banks and roadsides.

Benton Co.: *D. Moore* s.n. (UARK). Fulton Co.: *Demaree* 26821 (SMU). Newton Co.: *Smith* 3180 (UARK). St. Francis Co.: *Demaree* 22154 (NY). Stone Co.: *D. Moore* 450615 (UARK). Washington Co.: *D. Moore* 490105 (UARK).

10. *Equisetum* × *ferrissii* Clute, Fern Bull. 12: 22. 1904. [*Equisetum laevigatum* var. *elatum* Engelm.; *Equisetum hiemale* var. *intermedium* A. A. Eat.; *Equisetum laevigatum* auct. non A. Br.: Schaffner; *Equisetum hyemale* var. *affine* × *E. laevigatum* Hauke]

Moist, sandy or calcareous soils along stream banks, railroad tracks, and roadsides.

Baxter Co.: *D. Moore* 450742 (UARK). Benton Co.: *D. Moore* 400255 (UARK). Fulton Co.: *D. Moore* 330167 (UARK). Independence Co.: *Thomas* 9056 (NLU). Izard Co.: *Taylor* 1272 (SIU). Jefferson Co.: *Locke* 978 (UARK). Marion Co.: *D. Moore* 480731 (UARK). Newton Co.: *D. Moore* 650 (UARK). Phillips Co.: *Demaree* 15219 (SMU). Pulaski Co.: *Merrill* 513 (UARK). Stone Co.: *D. Moore* 451190 (UARK).

11. ***Equisetum hyemale* L. var. *affine* (Engelm.) A. A. Eat.**, Fern Bull. 11: 111. 1903. [*Equisetum praealtum* Raf.; *Equisetum robustum* A. Br. ex Engelm; *Equisetum hiemale* var. *robustum* (A. Br.) A. A. Eat.; *Equisetum hyemale* var. *elatum* (Engelm.) Morton; *Equisetum hyemale* var. *pseudohyemale* (Farw.) Morton]

Sandy or gravelly stream banks, roadside ditches, fence rows, edges of lakes, or generally disturbed, moist soil.

Arkansas Co.: *D. Moore* 480644 (UARK). Baxter Co.: *Demaree* 23551 (SMU). Benton Co.: *Demaree* 4631 (UARK). Carroll Co.: *Leonard* 59 (UARK). Craighead Co.: *Demaree* 30294 (PH). Cross Co.: *Demaree* 3759 (UARK). Drew Co.: *D. Moore* s.n. (UARK). Faulkner Co.: *Haas* 1503 (UCA). Fulton Co.: *D. Moore* 470255 (UARK). Garland Co.: *Taylor* 2559 (SIU). Hempstead Co.: *Buchholz* 438 (UARK). Lafayette Co.: *Loche* s.n. (UARK). Lawrence Co.: *Carter* 352 (UARK). Lee Co.: *Taylor* 1188 (SIU). Marion Co.: *D. Moore* 480731 (UARK). Mississippi Co.: *Bowers* s.n. (MEM). Montgomery Co.: *Taylor* 2610 (SIU). Newton Co.: *D. Moore* 32463 (UARK). Perry Co.: *Johnson* 62 (HXC). Phillips Co.: *Taylor* 1190 (SIU). Polk Co.: *McWilliam* s.n. (UARK). Pope Co.: *Tucker* s.n. (APCR). Pulaski Co.: *Demaree* 8567 (NY). Randolph Co.: *Riggs* s.n. (UARK). St. Francis Co.: *Demaree* 7230 (UARK). Searcy Co.: *Clark* 104 (HXC). Sharp Co.: *Demaree* 26448 (SMU). Stone Co.: *Taylor* 2900 (SIU). Washington Co.: *D. Moore* 450851 (UARK).

OPHIOGLOSSACEAE

12. ***Botrychium biternatum* (Sav.) Underw.**, Bot. Gaz. 22: 407. 1896. [*Osmunda biternata* Sav.; *Botrychium tenuifolium* Underw.; *Botrychium obliquum tenuifolium* (Underw.) Gilbert; *Botrychium dissectum* var. *tenuifolium* (Underw.) Farw.]

Moist to dry, open woods, thickets, and low wet areas.

Cleburne Co.: *Johnson* 398 (HXC). Cleveland Co.: *Miller* 764 (UARK). Columbia Co.: *D. Moore* 420478 (UARK). Conway Co.: *J. Moore* 1233 (UARK). Craighead Co.: *Watkins* s.n. (UARK). Cross Co.: *Lowman* 260 (HXC). Drew Co.: *Palmer* 44224 (MO). Faulkner Co.: *Johnson* 470 (HXC). Franklin Co.: *Barber* 420 (UARK). Garland Co.: *Taylor* 2862 (SIU). Grant Co.: *Demaree* 87193 (SMU). Hempstead Co.: *Palmer* 8980 (MO). Hot Spring Co.: *D. Moore* 400085 (UARK). Independence Co.: *Thomas* 34313 (NLU). Jefferson Co.: *Locke* 1216A (UARK). Lincoln Co.: *Thomas* 34392 (NLU). Little River Co.: *D. Moore* 5621 (UARK). Logan Co.: *Pyle* 557 (UARK). Lonoke Co.: *Clark* 673 (HXC). Montgomery Co.: *Taylor* 2219 (SIU). Newton Co.: *Johnson* 463 (HXC).

Perry Co.: *Johnson 133* (HXC). Polk Co.: *Taylor 2548* (SIU). Pope Co.: *Johnson 289* (HXC). Pulaski Co.: *Merrill 1217* (UARK). Saline Co.: *D. Moore 50171* (UARK). Sevier Co.: *D. Moore 401102* (UARK). Union Co.: *Taylor 2640* (SIU). Van Buren Co.: *Johnson 100* (HXC). Washington Co.: *Hartsoe 370* (SMU). White Co.: *Thomas 34166* (NLU). Yell Co.: *Demaree 67357* (SIU).

13. ***Botrychium dissectum*** Spreng., *Anleit. Gewachse* 3: 172. 1804. Two varieties are recognized in the state.

13a. ***Botrychium dissectum*** Spreng. var. ***dissectum*** [*Botrychium lunarioides* var. *dissectum* Gray; *Botrychium obliquum* var. *dissectum* (Spreng.) Prantl; *Botrychium dissectum* var. *typicum* Clausen]

Newton Co.: mesic ravine in Lost Valley State Park; *Thompson 907* (SMS). Washington Co.: low, open woods near Farmington; *D. Moore 300309* (MO).

13b. ***Botrychium dissectum*** Spreng. var. ***obliquum*** (Muhl.) Clute, *Fern Bull.* 10: 76. 1902. [*Botrychium obliquum* Muhl.; *Botrychium lunarioides* var. *obliquum* (Muhl.) Gray; *Botrychium ternatum* var. *obliquum* (Muhl.) D. C. Eat.]

Rich, moist, open woodlands and thickets.

Faulkner Co.: *Taylor 2606* (SIU). Howard Co.: *Kellogg s.n.* (MO). Montgomery Co.: *J. Moore & McWilliam s.n.* (UARK). Newton Co.: *D. Moore 350391* (UARK). Polk Co.: *D. Moore 510021* (UARK). Van Buren Co.: *Demaree 4755* (UARK). Washington Co.: *D. Moore 330309* (UARK).

14. ***Botrychium lunarioides*** (Michx.) Sw., *Syn. Fil.*, 172. 1806. [*Botrypus lunarioides* Michx.; *Botrychium fumarioides* Willd.; *Botrychium ternatum* var. *lunarioides* D. C. Eat.]

Cemeteries and church yards in the West Gulf Coastal Plain.

Howard Co.: County Line Missionary Baptist Church Cemetery; off Hwy. 24, ca. 5 mi. W of Nashville; *Thomas 28147* (NLU). Lafayette Co.: Forest Grove Baptist Church Cemetery; off Hwy. 53, ca. 1 mi N of Walker Creek; *Thomas 34005* (NLU). Sevier Co.: Coulter Memorial Garden; off Hwy. 71, Locksburg; *Thomas 28139* (NLU). Union Co.: Olive Branch Methodist Church Yard; off Hwy. 7, ca. 4.5 mi. SE of New Caledonia; *Taylor 2638* (SIU).

15. ***Botrychium virginianum*** (L.) Sw., *Journ. Bot. Schrad.* 1800 (2): 111. 1801. [*Osmunda virginiana* L.: *Osmundopteris virginiana* (L.) Small]

Moist to dry woodlands and thickets.

Ashley Co.: *Taylor 1875* (SIU). Baxter Co.: *Taylor 2675* (SIU). Benton Co.: *Taylor 1124* (SIU). Boone Co.: *Demaree s.n.* (UARK). Carroll Co.: *Palmer 4443* (MO). Clark Co.: *Taylor 2178* (SIU). Clay Co.: *Hartsoe 374* (SMU). Cleburne Co.: *Babb 338* (ARKSU). Conway Co.: *J. Moore 1086* (UARK). Craighead Co.: *Richards 5332* (ARKSU). Crawford Co.: *Moore 710233* (UARK). Crittenden Co.: *Browne 62123* (MEM).

Dallas Co.: *Taylor* 1133 (SIU). Faulkner Co.: *Haas* 1496 (UCA). Franklin Co.: *D. Moore* 300251 (UARK). Garland Co.: *Palmer* 24553 (MO). Greene Co.: *Demaree* 3932 (SMU). Hempstead Co.: *Bush* 1364 (NY). Hot Spring Co.: *D. Moore* 451096 (UARK). Howard Co.: *McSwain* 43E77 (UARK). Independence Co.: *Demaree* 26732 (SMU). Izard Co.: *Matthews* 125 (ARKSU). Jefferson Co.: *Locke* 2231 (UARK). Johnson Co.: *D. Moore* 450257 (UARK). Lawrence Co.: *Taylor* 2596 (SIU). Lee Co.: *Taylor* 1183 (SIU). Logan Co.: *Haas* 1495 (UCA). Lonoke Co.: *Clark* 672 (HXC). Madison Co.: *D. Moore* 460146 (UARK). Marion Co.: *Taylor* 1234 (SIU). Montgomery Co.: *Taylor* 2838 (SIU). Nevada Co.: *D. Moore* 450105 (UARK). Newton Co.: *D. Moore* 32504 (UARK). Phillips Co.: *Taylor* 2829 (SIU). Pike Co.: *Lindley & Lindley s.n.* (UARK). Polk Co.: *Lodewyks* 195 (MO). Pope Co.: *Taylor* 1207 (SIU). Pulaski Co.: *Redfearn* 25934 (SMS). Randolph Co.: *Taylor* 2100 (SIU). St. Francis Co.: *Demaree* 4349 (NY). Searcy Co.: *Taylor* 1852 (SIU). Sharp Co.: *Demaree* 27719 (SMU). Stone Co.: *Taylor* 1262 (SIU). Union Co.: *D. Moore* 68109 (UARK). Van Buren Co.: *Taylor* 2566 (SIU). Washington Co.: *D. Moore* 50008 (UARK). White Co.: *Johnson* 456 (HXC).

16. ***Ophioglossum crotalophoroides* Walt., Fl. Caroliniana, 256. 1788.** [*Ophioglossum bulbosum* Michx.; *Ophioglossum pusillum* Nutt.; *Ophioglossum vulgatum* var. *crotalophoroides* (Walt.) D. C. Eat.]

Sandy, open soil in lawns, meadows, cemetery yards, pastures, and roadsides.

Ashley Co.: *Thomas* 27300 (NLU). Bradley Co.: *Thomas* 27912 (NLU). Calhoun Co.: *Lawson* 256 (NLU). Clark Co.: *Lawson* 74 (NLU). Cleveland Co.: *Thomas* 43991 (NLU). Columbia Co.: *D. Moore* 5771 (UARK). Dallas Co.: *Lawson* 226 (NLU). Drew Co.: *Thomas* 26904 (NLU). Faulkner Co.: *Taylor* 2009 (SIU). Hempstead Co.: *D. Moore* 53155 (UARK). Hot Spring Co.: *Thomas* 34114 (NLU). Howard Co.: *D. Moore* 5772 (UARK). Independence Co.: *Thomas* 38584 (NLU). Jackson Co.: *Thomas* 34217 (NLU). Jefferson Co.: *Thomas* 34132 (NLU). Lafayette Co.: *Thomas* 34006 (NLU). Lincoln Co.: *Thomas* 34141 (NLU). Little River Co.: *Thomas* 27954 (NLU). Miller Co.: *Thomas* 34011 (NLU). Nevada Co.: *D. Moore* 450039 (UARK). Newton Co.: *Thompson* 1015 (SMS). Ouachita Co.: *Taylor* 2625 (SIU). Polk Co.: *Thomas* 34106 (NLU). Pulaski Co.: *Thomas* 34377 (NLU). Randolph Co.: *Thomas* 34239 (NLU). Sevier Co.: *Taylor* 2641 (SIU). Union Co.: *Taylor* 2629 (SIU). White Co.: *Thomas* 34159 (NLU).

17. ***Ophioglossum engelmannii* Prantl, Ber. Deutsch Bot. Ges. 1: 351. 1883.** [*Ophioglossum vulgatum* f. *engelmannii* (Prantl) Clute; *Ophioglossum vulgatum* var. *engelmannii* (Prantl) Clute]

Seasonally moist to wet calcareous soils on limestone glades, in open woods, and on chalk outcrops.

Baxter Co.: *Palmer* 14333 (MO). Benton Co.: *Palmer* 17199 (MO). Boone Co.: *Demaree s.n.* (UARK). Carroll Co.: *D. Moore* 350435 (MO). Faulkner Co.: *Taylor* 2010 (SIU). Fulton Co.: *D. Moore* 520391 (UARK). Garland Co.: *Haas* 1492 (UCA). Hempstead Co.: *Palmer* 5376 (MO). Independence Co.: *Thomas* 8926 (NLU). Izard Co.: *Taylor* 2107 (SIU). Little River Co.: *D. Moore* 50036 (UARK). Madison Co.: *D. Moore* 450406 (UARK). Marion Co.: *D. Moore* 520332 (APCR). Pulaski Co.: *D.*

Moore 330069 (UARK). Randolph Co.: *Taylor 2086* (SIU). Sharp Co.: *D. Moore 520382* (UARK). Stone Co.: *Taylor 1259* (SIU). Washington Co.: *Palmer 23300* (MO).

18. ***Ophioglossum nudicaule* L. f. var. *tenerum* (Mett. ex Prantl) Clausen**, Mem. Torrey Bot. Club 19: 146. 1938. [*Ophioglossum tenerum* Mett. ex Prantl]

Cemeteries and church yards in the West Gulf Coastal Plain.

Ashley Co.: Carter Cemetery; off Hwy. 82, ca. 1 mi. W of jct. Hwys. 81 and 82 and Antioch Methodist Church Cemetery; off Hwy. 81, ca. 3 mi. S of jct. Hwys. 81 and 82; *Thomas 27903* (NLU). Hempstead Co.: Shover Springs Baptist Church Cemetery; off Hwy. 32, Shover Springs; *Thomas 27951* (NLU). Nevada Co.: White's Chapel Baptist Church Yard; ca. 3 mi. E of Hwy. 53 and Bodcaw; *Thomas 27947* (NLU). Union Co.: Harper Springs Cemetery; S of Hwy. 129 and Huttig; also Cemetery in pine woods along Hwy. 275, ca. 5 mi. S of Strong; *Taylor 2630* (SIU).

19. ***Ophioglossum petiolatum* Hook.**, Exotic Flora 1: 56. 1823. [*Ophioglossum floridanum* E. P. St. John]

Cemeteries and yards; West Gulf Coastal Plain and Mississippi Alluvial Plain.

Dallas Co.: Oakland Cemetery, Fordyce; *Thomas 27918* (NLU). Jefferson Co.: yard beside bldg. at Pine Bluff Arsenal; sect. 20, T4S, R10W; *Thomas 44091* (NLU). Union Co.: Olive Branch Methodist Church Yard; ca. 0.5 mi. off Hwy. 7, ca. 4.5 mi. SE of New Caledonia; *Taylor 2637* (SIU). White Co.: Antioch Union Church Yard; off Hwy 31, Antioch; *Thomas 34184* (NLU).

20. ***Ophioglossum vulgatum* L. var. *pycnostichum* Fern.**, Rhodora 41: 494. 1939.

Moist, open woods, alluvial woodlands, and swamps.

Arkansas Co.: *Kellogg s.n.* (MO). Ashley Co.: *Thomas 34123* (NLU). Clay Co.: *Hartsoe s.n.* (UARK). Craighead Co.: *Richards 6209* (ARKSU). Cross Co.: *Clark 683* (HXC). Drew Co.: *Thomas 34129* (NLU). Grant Co.: *D. Moore 50095* (UARK). Hempstead Co.: *Kellogg s.n.* (MO). Howard Co.: *D. Moore 5680* (UARK). Independence Co.: *Thomas 38606* (NLU). Izard Co.: *J. Moore 5680* (UCA). Jackson Co.: *Richards 6197* (ARKSU). Jefferson Co.: *Locke 1734* (UARK). Little River Co.: *D. Moore 5620* (UARK). Pike Co.: *Lindley and Lindley s.n.* (NLU). Poinsett Co.: *Kellogg s.n.* (MO). Polk Co.: *J. Moore 3140* (UCA). Pulaski Co.: *Lowman s.n.* (HXC). Union Co.: *Thomas 35321* (NLU).

OSMUNDACEAE

21. ***Osmunda cinnamomea* L.**, Sp. Pl. 2: 1066. 1753.

Swamps, marshes, moist woods, seepage slopes, wet depressions, stream banks, edges of lakes, around springs, and on wet rock ledges.

Bradley Co.: *Locke 2026* (UARK). Benton Co.: *Demaree 4885* (UARK). Calhoun Co.: *Demaree 16908* (SMU). Clark Co.: *Taylor 2182* (SIU). Clay Co.: *Rosen 99* (HXC).

Cleburne Co.: *Babb* 281 (ARKSU). Cleveland Co.: *Demaree* 23309 (MO). Columbia Co.: *Taylor* 1898 (SIU). Conway Co.: *D. Moore* s.n. (UARK). Crawford Co.: *D. Moore* 710288 (UARK). Cross Co.: *D. Moore* 420368 (UARK). Drew Co.: *Demaree* 28816 (SMU). Faulkner Co.: *Johnson* 490 (HXC). Franklin Co.: *Hartsoe* s.n. (UARK). Garland Co.: *Taylor* 2560 (SIU). Grant Co.: *Taylor* 2724 (SIU). Greene Co.: *Demaree* 26659 (SMU). Hempstead Co.: *Bush* 5724 (MO). Hot Spring Co.: *Palmer* 8103 (MO). Howard Co.: *McSwain* 43E126 (UARK). Independence Co.: *Johnson* 301 (HXC). IZard Co.: *Demaree* 24435 (SMU). Jefferson Co.: *Demaree* 24054 (SMU). Lafayette Co.: *Fassett* 20907 (F). Logan Co.: *D. Moore* 480082 (UARK). Lonoke Co.: *Clark* 666 (HXC). Madison Co.: *Davis* 1499 (UARK). Montgomery Co.: *Taylor* 2207 (SIU). Nevada Co.: *D. Moore* 450091A (UARK). Newton Co.: *Redfearn* 27509 (SMS). Ouachita Co.: *D. Moore* 4505 (UARK). Perry Co.: *Robertson* s.n. (APCR). Pike Co.: *Demaree* 9543 (MO). Polk Co.: *D. Moore* 480559 (UARK). Pope Co.: *D. Moore* 350368 (UARK). Pulaski Co.: *Taylor* 2541 (SIU). Saline Co.: *Haas* 1489 (UCA). Sevier Co.: *D. Moore* 400181 (UARK). Stone Co.: *D. Moore* 450520 (UARK). Union Co.: *Taylor* 1155 (SIU). Van Buren Co.: *Palmer* 25175 (MO).

Osmunda cinnamomea f. *frondosa* (Torr. & Gray) Britton, which differs from the typical form in having sterile pinnae toward the base of the fertile frond, was collected by E. J. Palmer (MO 945740) from a sandy, open woods near Malvern, Hot Spring County.

22. *Osmunda claytoniana* L., Sp. Pl. 2: 1066. 1753.

Pope Co.: Alder thicket above a persistent spring, 0.9 mi. W. of Pelsor; *D. Moore* 4191 (UARK). Stone Co.: around natural opening of Blanchard Springs Caverns; *Taylor* 1251 (SIU).

23. *Osmunda regalis* L. var. *spectabilis* (Willd.) Gray, Man., 600. 1856. [*Osmunda spectabilis* Willd.]

Swamps, marshes, moist woods, seeps, wet depressions, stream banks, edges of lakes, and around springs.

Benton Co.: *Plank* s.n. (NY). Bradley Co.: *Locke* 1091 (UARK). Calhoun Co.: *Demaree* 22108 (MO). Clark Co.: *Taylor* 2183 (SIU). Clay Co.: *Richards* 5046 (ARKSU). Cleburne Co.: *Taylor* 1025 (SIU). Cleveland Co.: *Taylor* 1140 (SIU). Columbia Co.: *Taylor* 1158 (SIU). Conway Co.: *J. Moore* 928 (UARK). Craighead Co.: *Demaree* 5056 (UCA). Crawford Co.: *D. Moore* 710286 (UARK). Dallas Co.: *Taylor* 2734 (SIU). Drew Co.: *Demaree* 22417 (MO). Faulkner Co.: *D. Moore* 55236 (UARK). Franklin Co.: *Barber* s.n. (UARK). Garland Co.: *Palmer* 24949 (MO). Grant Co.: *Taylor* 2726 (SIU). Greene Co.: *Demaree* 4065 (SMU). Hempstead Co.: *Taylor* 1178 (SIU). Hot Spring Co.: *Demaree* 14784A (SMU). Howard Co.: *McSwain* 43E127 (UARK). Independence Co.: *Johnson* 304 (HXC). Jefferson Co.: *Demaree* 24300 (MO). Johnson Co.: *Redfearn* 23839 (SMS). Lawrence Co.: *Wheeler* 54 (F). Logan Co.: *D. Moore* 480041 (UARK). Lonoke Co.: *Clark* 667 (HXC). Montgomery Co.: *Taylor* 2208 (SIU). Nevada Co.: *D. Moore* 450091 (UARK). Newton Co.: *Johnson* 465 (HXC). Ouachita Co.: *Demaree* 16846 (MO). Pike Co.: *Demaree* 9539 (MO). Poinsett Co.: *Pyle* 588 (UARK). Polk Co.: *Palmer* 12625 (MO). Pope Co.: *D. Moore* 350369 (UARK). Pulaski Co.: *Taylor* 2542 (SIU). Saline Co.: *Haas* 1485 (UCA). Stone Co.: *Thomas* 8355 (NLU). Union Co.: *Taylor*

1157 (SIU). Van Buren Co.: *D. Moore 350438* (UARK). Washington Co.: *Hite 29* (UARK). Yell Co.: *Buchholz 1088* (UARK).

Osmunda regalis var. *spectabilis* f. *anomala* (Farw.) Harris, which differs from typical plants in having sterile pinnules borne in the fertile segment of the frond, has been collected in Clay, Green, Polk and Washington Counties.

ADIANTACEAE

24. ***Cheilanthes alabamensis*** (Buckl.) Kunze, *Linnaea* 20: 4. 1847. [*Pteris alabamensis* Buckl.]

Limestone or dolomite outcrops; primarily Ozark Highlands.

Baxter Co.: *Taylor 2674* (SIU). Benton Co.: *Palmer 24739* (MO). Boone Co.: *Palmer 6905* (MO). Carroll Co.: *Leonard 115* (UARK). Garland Co.: *Engelmann s.n.* (MO). Independence Co.: *Thomas 7720* (NLU). Izard Co.: *Demaree 3264* (UARK). Newton Co.: *Taylor 1219* (SIU). Searcy Co.: *Taylor 2583* (SIU). Stone Co.: *D. Moore 470697* (UARK). Washington Co.: *Taylor 1111* (SIU).

25. ***Cheilanthes castanea*** Maxon, *Proc. Biol. Soc. Wash.* 32: 111. 1919.

Baxter Co.: rock outcrops; Norfolk; *D. Moore 451026* (UARK).

26. ***Cheilanthes feei*** Moore, *Ind. Fil.*, 38. 1857. [*Cheilanthes lanuginosa* Hook.]

Limestone, dolomite, or calcareous sandstone outcrops; primarily Ozark Highlands.

Baxter Co.: *Taylor 2681* (SIU). Benton Co.: *Demaree 4975* (UARK). Boone Co.: *Palmer 6906* (MO). Carroll Co.: *Trelease 4/20799* (MO). Garland Co.: *Letterman s.n.* (MO). Izard Co.: *Demaree 17038* (MO). Marion Co.: *D. Moore 410522* (UARK). Newton Co.: *D. Moore 350103* (UARK). Searcy Co.: *D. Moore 350150* (UARK). Stone Co.: *Tucker 6904* (APCR). Washington Co.: *Demaree s.n.* (SMU).

27. ***Cheilanthes lanosa*** (Michx.) D. C. Eat. in Torr., *Rep. U. S. and Mex. Bound. Surv.* 2: 234. 1859. [*Nephrodium lanosum* Michx.; *Adiantum vestitum* Spreng.; *Cheilanthes vestita* (Spreng.) Sw.]

Sandstone, shale, dolomite, chert, novaculite, and occasionally limestone outcrops; chiefly Interior Highlands.

Baxter Co.: *Taylor 1844* (SIU). Benton Co.: *Taylor 1118* (SIU). Carroll Co.: *Palmer 4454* (MO). Clark Co.: *Taylor 2189* (SIU). Cleburne Co.: *Taylor 1023* (SIU). Conway Co.: *Tucker 3509* (APCR). Crawford Co.: *D. Moore 710221* (UARK). Faulkner Co.: *Taylor 2607* (SIU). Franklin Co.: *Taylor 1127* (SIU). Fulton Co.: *Palmer 29131* (MO). Garland Co.: *Taylor 2227* (SIU). Greene Co.: *Richards 5489* (ARKSU). Howard Co.: *Kellogg s.n.* (MO). Independence Co.: *Thomas 16443* (NLU). Izard Co.: *Palmer 35550* (MO). Johnson Co.: *Taylor 1091* (SIU). Lawrence Co.: *Taylor 2594* (SIU). Logan Co.:

Palmer 24191 (UARK). Madison Co.: *Redfearn 26788* (SMS). Marion Co.: *Johnson 91* (HXC). Montgomery Co.: *D. Moore 32975* (UARK). Perry Co.: *Owens s.n.* (US). Polk Co.: *J. Moore 3148* (UCA). Pope Co.: *Snider 23* (APCR). Pulaski Co.: *Buchholz 576* (UARK). Saline Co.: *Demaree 23017* (MO). Scott Co.: *D. Moore 430135* (UARK). Searcy Co.: *Taylor 1238* (SIU). Sebastian Co.: *Taylor 2718* (SIU). Stone Co.: *Taylor 2125* (SIU). Van Buren Co.: *Johnson 102* (HXC). Washington Co.: *Taylor 1113* (SIU). White Co.: *Demaree 26934* (SMU). Yell Co.: *Taylor 1198* (SIU).

28. ***Cheilanthes tomentosa*** Link, Hort. Berol. 2: 42. [*Cheilanthes lanosa* sensu Fern., Gray's Man. Bot., ed. 8: 47. 1950, non Eaton (1859)]

Sandstone, shale, dolomite, limestone, chert, and novaculite outcrops; Interior Highlands.

Baxter Co.: *D. Moore 451021* (UARK). Benton Co.: *Demaree 2911* (SMU). Boone Co.: *D. Moore 490379* (UARK). Cleburne Co.: *Taylor 1026* (SIU). Conway Co.: *D. Moore 480368* (UARK). Crawford Co.: *Palmer 26423* (UARK). Faulkner Co.: *Taylor 2601* (SIU). Franklin Co.: *Palmer 8140* (MO). Garland Co.: *Harvey 83* (MO). Hot Spring Co.: *Demaree 16534* (SMU). Howard Co.: *Kellogg s.n.* (MO). Izard Co.: *Demaree 3285* (SMU). Logan Co.: *Palmer 23207* (UARK). Marion Co.: *Johnson 98* (HXC). Montgomery Co.: *Demaree 34158* (SMU). Newton Co.: *D. Moore 32488* (UARK). Perry Co.: *Redfearn 24134* (SMU). Pike Co.: *Roberts 27* (UARK). Polk Co.: *J. Moore 3139* (UCA). Pope Co.: *D. Moore 520746* (UARK). Pulaski Co.: *Palmer 22990* (UARK). Scott Co.: *D. Moore 430134* (UARK). Searcy Co.: *D. Moore 350152* (UARK). Sebastian Co.: *Taylor 2716* (SIU). Stone Co.: *D. Moore 470747* (UARK). Washington Co.: *Taylor 1114* (SIU). Yell Co.: *Taylor 4369* (SIU).

29. ***Notholaena dealbata*** (Pursh) Kunze, Am. Journ. Sci. II. 6: 82. 1848. [*Cheilanthes dealbata* Pursh; *Pellaea dealbata* (Pursh) Prantl]

Limestone and dolomite outcrops; Ozark Highlands.

Baxter Co.: *Palmer 5951* (MO). Benton Co.: *Palmer 3790* (MO). Carroll Co.: *Palmer 4538* (MO). Madison Co.: *Nelson 10861* (MO). Washington Co.: *Taylor 1109* (SIU).

30. ***Pellaea atropurpurea*** (L.) Link, Fil. Sp. Hort. Berol., 59. 1841. [*Pteris atropurpurea* L.; *Allosorus atropurpureus* (L.) Presl]

Limestone, dolomite, or calcareous sandstone outcrops; most common in the Ozark Highlands.

Baxter Co.: *Taylor 1842* (SIU). Benton Co.: *Demaree 2908* (SMU). Boone Co.: *Palmer 6904* (MO). Carroll Co.: *Palmer 4424* (MO). Cleburne Co.: *Taylor 1020* (SIU). Conway Co.: *J. Moore 1262* (UARK). Franklin Co.: *Barber 448* (UARK). Fulton Co.: *Demaree 5370* (UARK). Garland Co.: *Taylor 2225* (SIU). Hot Spring Co.: *Demaree 15567* (SMU). Independence Co.: *Trelease s.n.* (MO). Izard Co.: *Taylor 1270* (SIU). Lawrence Co.: *Taylor 1789* (SIU). Madison Co.: *Taylor 1995* (SIU). Marion Co.: *Taylor 1231* (SIU). Newton Co.: *Taylor 1217* (SIU). Polk Co.: *J. Moore s.n.* (UARK). Pope Co.: *D. Moore 52074* (UARK). Randolph Co.: *Taylor 1802* (SIU). Searcy Co.: *Taylor 1242* (SIU). Sebastian Co.: *Taylor 2719* (SIU). Sharp Co.: *Taylor 1809* (SIU). Stone Co.: *Taylor 1247* (SIU). Van Buren Co.: *Palmer 25171* (UARK). Washington Co.: *Taylor 1112* (SIU).

An aberrant form of *P. atropurpurea* in which the pinnae or ultimate segments repeatedly fork was collected by D. M. Moore near West Fork, Washington County. Moore's specimens (MO 1860929, UARK 340687) are referable to *Pellaea atropurpurea* f. *cristata* (Trel.) Clute.

31. ***Pellaea glabella*** Mett. ex Kuhn, *Linnaea* 36: 87. 1869. [*Pellaea atropurpurea* var. *bushii* Mack. & Bush; *Pellaea atropurpurea* f. *glabella* (Mett. ex Kuhn) Clute]

Limestone, dolomite, or calcareous sandstone outcrops; chiefly in the Ozark Highlands.

Baxter Co.: *Taylor* 1841 (SIU). Benton Co.: *D. Moore* 4000284 (UARK). Carroll Co.: *D. Moore* 410184 (UARK). Faulkner Co.: *Lane* 241 (UARK). Garland Co.: *Engelmann s.n.* (MO). Izard Co.: *Taylor* 1271 (SIU). Marion Co.: *Demaree s.n.* (SMU). Newton Co.: *Taylor* 2697 (SIU). Sharp Co.: *Johnson* 485 (HXC). Stone Co.: *Taylor* 2898 (SIU).

32. ***Adiantum capillus-veneris*** L., *Sp. Pl.* 2: 1096. 1753. [*Adiantum modestum* Underw.; *Adiantum tricholepis* f. *glabrum* Clute]

Moist to wet calcareous rock outcrops; principally Ozark Highlands and Boston Mountains.

Benton Co.: *Palmer* 2940 (MO). Carroll Co.: *D. Moore* 410188a (UARK). Crawford Co.: *Moore* 710274 (UARK). Franklin Co.: *Barber* 2011 (UARK). Garland Co.: *Engelmann* 19 (MO). Hot Spring Co.: *Demaree* 19856 (MO). Izard Co.: *Taylor* 1269 (SIU). Logan Co.: *D. Moore* 480076 (UARK). Madison Co.: *Nelson* 10873 (MO). Marion Co.: *Palmer* 5985 (MO). Newton Co.: *Taylor* 1218 (SIU). Pope Co.: *D. Moore* 520755 (UARK). Searcy Co.: *Taylor* 1239 (SIU). Stone Co.: *Taylor* 1250 (SIU). Van Buren Co.: *Palmer* 24203 (UARK). Washington Co.: *Palmer* 23906 (MO).

33. ***Adiantum pedatum*** L., *Sp. Pl.* 2: 1095. 1753.

Moist, shaded, rich woods, primarily Interior Highlands and Crowley's Ridge.

Baxter Co.: *Taylor* 2682 (SIU). Benton Co.: *Demaree* 4592 (SMU). Boone Co.: *Demaree s.n.* (UARK). Carroll Co.: *Palmer* 4547 (MO). Clay Co.: *Richards* 4402 (ARKSU). Cleburne Co.: *Demaree* 30509 (SMU). Conway Co.: *Demaree* 22793 (SMU). Craighead Co.: *Alliston* 15 (ARKSU). Crawford Co.: *Taylor* 1093 (SIU). Crittenden Co.: *Demaree* 61080 (SMU). Cross Co.: *Lowman* 344 (HXC). Faulkner Co.: *Demaree s.n.* (MO). Franklin Co.: *Johnson* 527 (HXC). Fulton Co.: *Demaree* 5372 (NY). Garland Co.: *Trelease s.n.* (MO). Hot Spring Co.: *Palmer* 26589 (UARK). Independence Co.: *Demaree* 17097 (MO). Izard Co.: *Matthews* 91 (ARKSU). Johnson Co.: *D. Moore* 450265 (UARK). Lee Co.: *Taylor* 1186 (SIU). Logan Co.: *Palmer* 24158 (MO). Madison Co.: *Key* 265 (SMS). Marion Co.: *Palmer* 4777 (MO). Montgomery Co.: *Taylor* 2215 (SIU). Newton Co.: *Taylor* 1221 (SIU). Perry Co.: *Demaree* 35477 (SMU). Phillips Co.: *Demaree* 19221 (SMU). Polk Co.: *Taylor* 1067 (SIU). Pope Co.: *Taylor* 1202 (SIU). Pulaski Co.: *Johnson* 122 (HXC). St. Francis Co.: *Demaree* 21539 (MO). Saline Co.: *Demaree* 23987 (SMU). Searcy Co.: *Taylor* 2572 (SIU). Sevier Co.: *D. Moore* 410371

(UARK). Stone Co.: *Taylor 1253b* (SIU). Van Buren Co.: *Taylor 2565* (SIU). Washington Co.: *Taylor 1102* (SIU). White Co.: *Johnson 457* (HXC). Yell Co.: *Buchholz 1077* (NY).

34. ***Pteris multifida* Poir. ex Lam.**, *Encyc. Bot.* 5: 714. 1804. [*Pycnodoria multifida* (Poir. ex Lam.) Small]

Garland Co.: Northwest facing limestone tufa at the base of Hot Springs Mountain, Hot Springs National Park; *Taylor 2708* (SIU).

HYMENOPHYLLACEAE

35. ***Trichomanes boschianum* Sturm ex Bosch**, *Nederl. Kruidk. Arch.* 5(2): 160. 1861.

Under moist, overhanging sandstone outcrops.

Cleburne Co.: ca. 1.5 mi. NE of Greers Ferry Dam; sect. 5, T10N, R9W; *Taylor 1013* (SIU). Madison Co.: 6.5 mi. SE of Pettigrew; sect. 1, T13N, R25W; *Clark 1400* (MO).

36. ***Trichomanes petersii* Gray**, *Am. Jour. Sci.* II. 15: 326. 1853.

Pope Co.: side of sandstone boulder in narrow drainage ravine running to Indian Creek; ca. 3 mi. SW of Pelsor, sect. 16, T12N, R20W; *Redfearn 21508* (SMS). Stone Co.: calcareous sandstone ledge along North Sylamore Creek; sect. 25, T16N, R12W; *Taylor 2897* (SIU).

POLYPODIACEAE

37. ***Polypodium polypodioides* (L.) Watt var. *michauxianum* Weatherby**, *Contr. Gray Herb.* 124: 31. 1939. [*Acrostichum polypodioides* L.; *Polypodium incanum* sensu auct., non Sw. (1788); *Polypodium ceteraccinum* Michx; *Marginaria polypodioides* (L.) Tidest.]

On rocks or as an epiphyte on trees, especially oaks and elms.

Arkansas Co.: *Taylor 1867a* (SIU). Ashley Co.: *Taylor 1873b* (SIU). Baxter Co.: *Taylor 1848* (SIU). Bradley Co.: *Taylor 1145* (SIU). Calhoun Co.: *Johnson s.n.* (HXC). Carroll Co.: *Palmer 4528* (MO). Clark Co.: *Taylor 2179* (SIU). Clay Co.: *Hartsoe 376* (SMU). Cleburne Co.: *Taylor 1024* (SIU). Cleveland Co.: *Taylor s.n.* (SIU). Columbia Co.: *Taylor 1165* (SIU). Conway Co.: *Demaree 24962* (SMU). Craighead Co.: *Taylor 2882* (SIU). Crawford Co.: *Redfearn 24556* (SMS). Cross Co.: *Palmer 31658* (MO). Dallas Co.: *Taylor 2731* (SIU). Desha Co.: *Johnson s.n.* (UARK). Drew Co.: *Taylor 1149* (SIU). Faulkner Co.: *Taylor 2013* (SIU). Franklin Co.: *J. Moore s.n.* (APCR). Fulton Co.: *Demaree 5284* (UARK). Garland Co.: *Taylor 2196* (SIU). Grant Co.: *Taylor 2728* (SIU). Hempstead Co.: *Taylor 1179* (SIU). Hot Spring Co.: *Demaree 21194* (SMU). Howard Co.: *McSwain 43E66* (UARK). Independence Co.: *Demaree 17098* (SMU). Izard Co.: *Taylor 2138* (SIU). Jefferson Co.: *Locke 761* (UARK). Johnson Co.: *Johnson 54* (HXC). Lawrence Co.: *Taylor 1791* (SIU). Lee Co.: *Demaree 37378* (SMU). Lincoln Co.: *Demaree 13739* (SMU). Little River Co.: *Taylor 2149* (SIU). Logan Co.: *Palmer 24152* (MO). Lonoke Co.: *Buchholz s.n.* (UARK). Madison Co.: *Taylor 2001*

(SIU). Marion Co.: *Taylor* 1836 (SIU). Miller Co.: *Taylor* 1911 (SIU). Mississippi Co.: *Metcalf* 645 (US). Monroe Co.: *Taylor* 2832 (SIU). Montgomery Co.: *Taylor* 1076 (SIU). Nevada Co.: *Taylor* 2747 (SIU). Newton Co.: *Moore & Demaree* 6386 (UARK). Ouachita Co.: *Taylor* 2628 (SIU). Perry Co.: *Demaree* 27056 (SMU). Pike Co.: *Demaree* 9507 (SMU). Poinsett Co.: *Demaree* 28624 (SMU). Polk Co.: *Taylor* 2549 (SIU). Pope Co.: *Redfearn* 23888 (SMS). Pulaski Co.: *Demaree* 8467 (SMU). Randolph Co.: *Taylor* 2096 (SIU). St. Francis Co.: *Johnson* 486 (HXC). Saline Co.: *Aingworth s.n.* (UARK). Scott Co.: *Taylor* 2714 (SIU). Searcy Co.: *Emig* 85 (MO). Sebastian Co.: *Taylor* 2722 (SIU). Sevier Co.: *Culwell* 3239 (UCA). Sharp Co.: *Demaree* 26281 (SMU). Stone Co.: *Demaree* 59388 (SMU). Union Co.: *Taylor* 2633 (SIU). Van Buren Co.: *Palmer* 25188 (MO). Washington Co.: *Demaree* 2742 (SMU). White Co.: *D. Moore* 451040 (UARK). Woodruff Co.: *Johnson* 479 (HXC). Yell Co.: *Taylor* 2622 (SIU).

38. ***Polypodium virginianum* L., Sp. Pl. 2: 1085. 1735.** [*Polypodium vulgare* var. *virginianum* (L.) Eat.; *Polypodium vulgare* var. *americanum* Hook.]

Usually shaded, sandstone outcrops; chiefly Ozark Highlands and Boston Mountains.

Benton Co.: *D. Moore* 410014 (UARK). Cleburne Co.: *Babb* 186 (ARKSU). Franklin Co.: *Johnson* 526 (HXC). Logan Co.: *Taylor* 1042 (SIU). Madison Co.: *Taylor* 2002 (SIU). Marion Co.: *D. Moore* 480728 (UARK). Newton Co.: *Palmer* 27090 (UARK). Pope Co.: *Taylor* 1214 (SIU). Searcy Co.: *Demaree* 51919 (SMU). Stone Co.: *Taylor* 2901 (SIU). Washington Co.: *Harvey* 77 (MO).

DENNSTAEDTIACEAE

39. ***Dennstaedtia punctilobula* (Michx.) Moore, Ind. Fil., 307. 1857.** [*Nephrodium punctilobula* Michx.; *Dicksonia punctilobula* (Michx.) Gray]

Crevices and ledges of moist, shaded, sandstone outcrops.

Logan Co.: near summit on N side of Magazine Mountain; *Taylor* 1046 (SIU). Stone Co.: Blanchard Springs and City Rock Bluff across the White River from Calico Rock; *D. Moore* 390311 (F).

40. ***Pteridium aquilinum* (L.) Kuhn in Decken, Reisen Ost-Afr. 3: 11. 1879.** [*Pteris aquilina* L.]

Open woods, cut-over and burned-over areas, thickets, old fields, roadsides. Two varieties are recognized in the state.

40a. ***Pteridium aquilinum* var. *latiusculum* (Desv.) Underw. ex Heller, Cat. N. Am. Pl., 17. 1909.** [*Pteris latiuscula* Desv.; *Pteridium latiusculum* (Desv.) Fries]

This variety is found with greater frequency in the northern third of the state.

Boone Co.: *Demaree s.n.* (UARK). Calhoun Co.: *Demaree* 22104 (MO). Carroll Co.: *D. Moore* 410188 (UARK). Clay Co.: *Richards* 5353 (ARKSU).

Cleburne Co.: *Smith 1488* (UARK). Columbia Co.: *D. Moore 420448* (UARK). Conway Co.: *D. Moore 480371* (UARK). Craighead Co.: *Pyle 589* (UARK). Crawford Co.: *D. Moore 710281* (UARK). Dallas Co.: *Taylor 1138* (SIU). Garland Co.: *Bragg 131* (MO). Grant Co.: *Taylor 2727* (SIU). Greene Co.: *Richards 5494* (ARKSU). Hempstead Co.: *Bush 1045* (MO). Hot Spring Co.: *Palmer 26597* (UARK). Independence Co.: *Thomas 14926* (NLU). Izard Co.: *Taylor 2134* (SIU). Jefferson Co.: *Locke 1030* (UARK). Johnson Co.: *Wright 930* (UARK). Lawrence Co.: *Demaree 31002* (SMU). Lincoln Co.: *Demaree 19185* (MO). Logan Co.: *Pyle 332* (UARK). Lonoke Co.: *Clark 679* (HXC). Marion Co.: *Smith 1420* (SMU). Miller Co.: *Taylor 1916* (SIU). Montgomery Co.: *Taylor 1078* (SIU). Newton Co.: *Taylor 2701* (SIU). Perry Co.: *Demaree 35633* (SMU). Pike Co.: *Taylor 2904* (SIU). Polk Co.: *Taylor 1071* (SIU). Pope Co.: *Taylor 1206* (SIU). Prairie Co.: *Demaree 22307* (MO). Pulaski Co.: *Bailey s.n.* (UARK). Saline Co.: *D. Moore 300068* (UARK). Sevier Co.: *D. Moore 401105* (UARK). Stone Co.: *Taylor 1256* (SIU). Union Co.: *Taylor 1152* (SIU). Van Buren Co.: *Palmer 25176* (UARK). Washington Co.: *Taylor 1157* (SIU). Yell Co.: *Demaree 15935* (SMU).

40b. ***Pteridium aquilinum* var. *pseudocaudatum*** (Clute) Heller, Cat. N. Am. Pl., 12. 1909. [*Pteris aquilina* var. *pseudocaudata* Clute]

This variety is the more commonly encountered taxon in the West Gulf Coastal Plain.

Ashley Co.: *Taylor 1890* (SIU). Benton Co.: *D. Moore 450891* (UARK). Bradley Co.: *Demaree 23878* (SMU). Calhoun Co.: *Demaree 16616* (SMU). Clark Co.: *Taylor 2181* (SIU). Cleveland Co.: *Taylor 1139* (SIU). Columbia Co.: *Taylor 1169* (SIU). Conway Co.: *Clark 45* (HXC). Crawford Co.: *D. Moore 50283* (UARK). Cross Co.: *Johnson 440* (HXC). Dallas Co.: *Demaree 19048* (SMU). Drew Co.: *Taylor 1148* (SIU). Faulkner Co.: *Buchholz 988* (UARK). Fulton Co.: *Taylor 2668* (SIU). Garland Co.: *Taylor 2860* (SIU). Grant Co.: *Demaree 16564* (SMU). Greene Co.: *Demaree 26697* (SMU). Hempstead Co.: *D. Moore 480477* (APCR). Hot Spring Co.: *Taylor 2859* (SIU). Howard Co.: *Demaree 9952* (SMU). Independence Co.: *Thomas 7778* (NLU). Jefferson Co.: *Demaree 19457* (SMU). Johnson Co.: *Demaree 20213* (SMU). Lee Co.: *Holmes 81* (SMU). Lincoln Co.: *Demaree 19185* (SMU). Little River Co.: *Taylor 2162* (SIU). Lonoke Co.: *Demaree 8406* (SMU). Marion Co.: *Demaree 29322* (SMU). Miller Co.: *Demaree 24486* (SMU). Montgomery Co.: *Taylor 2220* (SIU). Nevada Co.: *Taylor 2749* (SIU). Perry Co.: *Wright P701* (UARK). Pike Co.: *Taylor 2171* (SIU). Polk Co.: *Demaree 15695* (SMU). Prairie Co.: *Demaree 22307* (SMU). Pulaski Co.: *Taylor 2540* (SIU). Randolph Co.: *Taylor 2101* (SIU). Saline Co.: *Demaree 8545* (SMU). Union Co.: *Hoiberg 326* (SMU). Van Buren Co.: *Wherry s.n.* (PH). Washington Co.: *French s.n.* (APCR). White Co.: *Demaree 26892* (SMU). Yell Co.: *Demaree 20584* (SMU).

THELYPTERIDACEAE

41. ***Thelypteris kunthii*** (Desv.) Morton, Contr. U. S. Nat. Herb. 38: 53. 1967. [*Thelypteris normalis* (C. Chr.) Moxley]

Ashley Co.: roadside in lumbered pine forest; timber access road SE of Lake Georgia-Pacific; sects. 22 and 35, T17S, R9W; *Johnson* 281 (HXC).

42. ***Thelypteris noveboracensis*** (L.) Nieuwl., Amer. Midl. Nat. 1: 226. 1910. [*Polypodium noveboracense* L.; *Aspidium noveboracense* (L.) Sw.; *Dryopteris noveboracensis* (L.) Gray]

Moist, rocky soils of woods and thickets along streams; chiefly Ouachita Mountains.

Cleburne Co.: *Johnson* 393 (HXC). Garland Co.: *D. Moore* 6278 (APCR). Montgomery Co.: *Taylor* 1084 (SIU). Pike Co.: *Taylor* 2903 (SIU). Polk Co.: *D. Moore* 410261 (UARK). Pulaski Co.: *Johnson* 112 (HXC). Saline Co.: *D. Moore* 480154 (UARK).

43. ***Thelypteris palustris*** Schott, Gen. Fil. t. 10. 1834. [*Acrostichum thelypteris* L.; *Aspidium thelypteris* (L.) Sw.; *Dryopteris thelypteris* (L.) Gray]

Low, marshy areas around ponds and lakes and along streams. Two varieties are recognized in the state.

- 43a. ***Thelypteris palustris* var. *haleana*** Fern., Rhodora 31: 34. 1929. [*Dryopteris thelypteris* var. *haleana* (Fern.) Weatherby]

Bradley Co.: cypress swamp near Warren; *Demaree* 19445 (SMU). Drew Co.: among grasses and sedges in swamp near Wilmar; *Demaree* 24624 (SMU).

- 43b. ***Thelypteris palustris* var. *pubescens*** (Laws.) Fern. [*Dryopteris thelypteris* var. *pubescens* (Laws.) Weatherby]

Ashley Co.: *Johnson* 276 (HXC). Bradley Co.: *Demaree* 19445 (MO). Drew Co.: *D. Moore* 420048 (UARK). Greene Co.: *D. Moore* 480685 (UARK). Hempstead Co.: *D. Moore* 480353 (UARK). Izard Co.: *Johnson* 422 (HXC). Lawrence Co.: *Taylor* 1794 (SIU). Little River Co.: *Palmer* 8359 (MO). Polk Co.: *J. Moore & McWilliams* s.n. (UARK). Sharp Co.: *Wade* 167 (UARK). Washington Co.: *Henbest* 16 (UARK).

44. ***Thelypteris torresiana*** (Gaud.) Alston, Lilloa 30: 11. 1960.

Ashley Co.: roadside at edge of field; timber access road, W of Crossett, sect. 9, T18S, R9W and roadside in lumbered pine forest; timber access road SE of Lake Georgia-Pacific, sect. 22, T17S, R9W; *Johnson* 283 (HXC).

45. ***Phegopteris hexagonoptera*** (Michx.) Fee, Gen. Fil. 243. 1850-52. [*Polypodium hexagonopterum* Michx.; *Dryopteris hexagonoptera* (Michx.) C. Chr.; *Thelypteris hexagonoptera* (Michx.) Weatherby]

Moist, sandy soil on slopes and in ravines of rich woods; Interior Highlands, West Gulf Coastal Plain, and Crowley's Ridge.

Ashley Co.: *Taylor* 1877 (SIU). Benton Co.: *D. Moore* 410010 (UARK). Bradley Co.: *Demaree* 21022 (MO). Carroll Co.: *Palmer* 4471 (MO). Clark Co.: *Taylor* 2176 (SIU).

Clay Co.: *Bush* 2616 (MO). Cleburne Co.: *Smith* 1494 (UARK). Conway Co.: *Tucker* 7157 (APCR). Craighead Co.: *Demaree* 3576 (MO). Cross Co.: *Palmer* 31663 (UARK). Drew Co.: *Palmer* 44223 (SMU). Faulkner Co.: *Buchholz* 946 (UARK). Franklin Co.: *Johnson* 521 (HXC). Garland Co.: *Palmer* 29210 (UARK). Greene Co.: *Demaree* 4002 (SMU). Hempstead Co.: *Bush* 5713 (NY). Hot Spring Co.: *Wherry* s.n. (PH). Howard Co.: *McSwain* 43E80 (UARK). Independence Co.: *Demaree* 17080 (SMU). IZard Co.: *Thomas* s.n. (NLU). Jefferson Co.: *Stewart* 20 (UARK). Johnson Co.: *Redfearn* 18929 (SMS). Lawrence Co.: *Taylor* 1793 (SIU). Lee Co.: *Taylor* 1185 (SIU). Logan Co.: *Palmer* 23236 (MO). Madison Co.: *Key* 267 (SMS). Marion Co.: *Johnson* 92 (HXC). Montgomery Co.: *Taylor* 1075 (SIU). Newton Co.: *Taylor* 1220 (SIU). Perry Co.: *Demaree* 20145 (MO). Phillips Co.: *Taylor* 1190a (SIU). Pike Co.: *Redfearn* 24472 (SMS). Poinsett Co.: *Emig* 58 (MO). Polk Co.: *Taylor* 1066 (SIU). Pope Co.: *Taylor* 1203 (SIU). Pulaski Co.: *Haase* s.n. (NY). St. Francis Co.: *Demaree* 7234 (UARK). Saline Co.: *Palmer* 10549 (MO). Searcy Co.: *Taylor* 2582 (SIU). Stone Co.: *Taylor* 1254 (SIU). Union Co.: *Taylor* 1153 (SIU). Van Buren Co.: *Palmer* 24291 (UARK). Washington Co.: *Taylor* 1103 (SIU). White Co.: *Johnson* 460 (HXC).

ASPLENIACEAE

46. ***Asplenium bradleyi*** D. C. Eat., Bull. Torrey Bot. Club 4: 11. 1873. [*Asplenium* $\times$ *stotleri* Wherry]

Sandstone and novaculite outcrops; chiefly Interior Highlands.

Baxter Co.: *Culwell* 3188 (UCA). Benton Co.: *D. Moore* 41096 (UARK). Boone Co.: *Redfearn* 23716 (SMS). Cleburne Co.: *Johnson* 468 (HXC). Conway Co.: *D. Moore* 470468 (UARK). Franklin Co.: *Redfearn* 21149 (SMS). Garland Co.: *D. Moore* 46-092 (UARK). Greene Co.: *Demaree* 26704 (SMU). Independence Co.: *Coville* 161 (US). IZard Co.: *Demaree* 23437 (SMU). Johnson Co.: *Redfearn* 23834 (SMS). Logan Co.: *Haas* 135 (MO). Madison Co.: *Taylor* 2004 (SIU). Montgomery Co.: *Johnson* 180 (HXC). Newton Co.: *Taylor* 2699 (SIU). Perry Co.: *Redfearn* 23982 (SMS). Polk Co.: *D. Moore & McWilliams* 56197 (UARK). Pope Co.: *Taylor* 1216 (SIU). Pulaski Co.: *Hasse* s.n. (NY). Saline Co.: *Redfearn* 24325 (SMS). Searcy Co.: *Redfearn* 23721 (SMS). Stone Co.: *Taylor* 2902 (SIU). Van Buren Co.: *Demaree* 4757 (SIU). Washington Co.: *D. Moore* 340680 (UARK). Yell Co.: *Taylor* 4368 (SIU).

47. ***Asplenium* $\times$ *ebenoides*** R. R. Scott, Gardener's Monthly 7: 267. 1865. [*Asplenium platyneuron* $\times$ *Camptosorus rhizophyllus* Slosson; $\times$ *Asplenosorus ebenoides* (R. R. Scott) Wherry]

Johnson Co.: shaded boulder face along road to campground; Haw Creek Falls Recreation Area; W of Fort Douglas; *Johnson* 79028 (HXC). This hybrid has been reported from Crawford County along Lee Creek (Moore, 1940) but voucher material has not been located.

48. ***Asplenium* $\times$ *kentuckiense*** McCoy, Amer. Fern J. 25: 104. 1936. [*Asplenium pinnatifidum* $\times$ *platyneuron* Wagner]

Benton Co.: growing near both parents on a sandstone outcrop; ca 1 mi. W of old Elkhorn Tavern, Pea Ridge National Military Park; *D. Moore* 430114 (MO).

49. ***Asplenium pinnatifidum*** Nutt., Gen. 2: 251. 1818.

Crevices of sandstone and novaculite outcrops; Interior Highlands.

Benton Co.: *Taylor 1123* (SIU). Cleburne Co.: *Johnson 435* (HXC). Garland Co.: *Taylor 2704* (SIU). Independence Co.: *D. Moore 61118* (UARK). Izard Co.: *Johnson 79054* (HXC). Van Buren Co.: *Johnson 437* (HXC).

50. ***Asplenium platyneuron*** (L.) Oakes ex D. C. Eat., Ferns N. Amer. 1: 24. 1878. [*Asplenium ebeneum* Ait.]

Moist to dry, rocky woods, hillsides, ravines, thickets, rock outcrops, stream banks, and roadsides. Three varieties are recognized in the state.

50a. ***Asplenium platyneuron* var. *bacculum-rubrum*** (Featherm.) Fern., Rhodora 38: 304. 1936.

Boone Co.: *Haas 2798* (UCA). Cleburne Co.: *Taylor 1017b* (SIU). Johnson Co.: *Taylor 1087* (SIU). Lee Co.: *McDaniel 804* (UARK). Polk Co.: *Taylor 1061* (SIU). Pulaski Co.: *Palmer 23002* (UARK). Stone Co.: *Taylor 1248* (SIU). Van Buren Co.: *Nelson 482* (SIU).

50b. ***Asplenium platyneuron* var. *incisum*** (Howe ex Peck) B. L. Robins., Rhodora 10: 29. 1908. [*Asplenium ebeneum* var. *incisum* Peck; *Asplenium ebeneum* var. *serratum* E. S. Miller; *Asplenium platyneuron* var. *serratum* (E. S. Miller) BSP.]

Baxter Co.: *Taylor 2677* (SIU). Benton Co.: *D. Moore 460177* (UARK). Carroll Co.: *Palmer 6351* (MO). Clark Co.: *Taylor 2175* (SIU). Clay Co.: *Taylor 2661* (SIU). Cleveland Co.: *Taylor 2736* (SIU). Conway Co.: *Demaree 23122* (SMU). Craighead Co.: *Demaree 3523* (NY). Crawford Co.: *Taylor 1126* (SIU). Cross Co.: *Akers 20* (HXC). Garland Co.: *Palmer 23106* (MO). Greene Co.: *Richards 5488* (ARKSU). Hempstead Co.: *Palmer 10512* (MO). Howard Co.: *McSwain 43E69* (UARK). Jackson Co.: *Richards 6203* (ARKSU). Lee Co.: *McDaniel 804* (ARKSU). Marion Co.: *Palmer 4747* (MO). Montgomery Co.: *Taylor 2843* (SIU). Nevada Co.: *D. Moore 420470* (UARK). Newton Co.: *Taylor 2700* (SIU). Phillips Co.: *Palmer 25162* (UARK). Pike Co.: *Johnson 177* (HXC). Polk Co.: *Taylor 2850* (SIU). Pulaski Co.: *Wheeler 50* (F). Randolph Co.: *Taylor 2087* (SIU). Saline Co.: *Demaree 23031* (SMU). Sharp Co.: *Demaree 27732* (SMU). Stone Co.: *Johnson 74* (HXC). Washington Co.: *Buchholz s.n.* (US). White Co.: *Johnson 217* (HXC).

50c. ***Asplenium platyneuron* var. *platyneuron*.**

Ashley Co.: *Demaree 16368* (SMU). Baxter Co.: *Taylor 1828* (SIU). Benton Co.: *Taylor 1120* (SIU). Boone Co.: *Demaree s.n.* (UARK). Calhoun Co.: *Demaree 22666* (MO). Carroll Co.: *Palmer 4527* (MO). Clark Co.: *Taylor 2192* (SIU). Clay Co.: *Bush 2646* (MO). Cleburne Co.: *Demaree 30305* (SMU). Cleveland Co.: *Taylor 1017* (SIU). Conway Co.: *Demaree 23122* (MO).

Crawford Co.: *Redfearn* 23642 (SMS). Cross Co.: *Demaree* 19631 (MO). Dallas Co.: *Taylor* 1137 (SIU). Drew Co.: *Demaree* 24348 (MO). Faulkner Co.: *Taylor* 2609 (SIU). Franklin Co.: *Palmer* 8160 (MO). Fulton Co.: *Taylor* 2667 (SIU). Garland Co.: *Taylor* 2193 (SIU). Greene Co.: *Demaree* 26688 (SMU). Hempstead Co.: *Bush* 1452 (US). Hot Spring Co.: *Demaree* 15610 (SMU). Howard Co.: *Kellogg s.n.* (MO). Independence Co.: *Demaree* 17067 (MO). Izard Co.: *Taylor* 2136 (SIU). Jefferson Co.: *Locke* 1223 (UARK). Johnson Co.: *Taylor* 1089 (SIU). Lawrence Co.: *Taylor* 1787 (SIU). Lee Co.: *Demaree* 37381 (SMU). Little River Co.: *Johnson* 475 (HXC). Logan Co.: *Taylor* 1032 (SIU). Lonoke Co.: *Clark* 665 (HXC). Madison Co.: *Taylor* 2005 (SIU). Marion Co.: *Taylor* 1230 (SIU). Miller Co.: *Taylor* 1172 (SIU). Montgomery Co.: *Taylor* 1073 (SIU). Nevada Co.: *D. Moore* 420464 (UARK). Newton Co.: *Taylor* 1224 (SIU). Ouachita Co.: *Hoiberg* 351 (SMU). Perry Co.: *Demaree* 54546 (SMU). Phillips Co.: *Palmer* 25165 (MO). Pike Co.: *Demaree* 9766 (SMU). Polk Co.: *Taylor* 1059 (SIU). Pope Co.: *Taylor* 1204 (SIU). Pulaski Co.: *Demaree* 17347 (MO). Randolph Co.: *Taylor* 1800 (SIU). Saline Co.: *Demaree* 23021 (MO). Scott Co.: *Taylor* 1058 (SIU). Searcy Co.: *Taylor* 1853 (SIU). Sebastian Co.: *Taylor* 2721 (SIU). Sevier Co.: *Taylor* 2164 (SIU). Sharp Co.: *Taylor* 1819 (SIU). Stone Co.: *Taylor* 1257 (SIU). Union Co.: *Taylor* 1163 (SIU). Van Buren Co.: *Redfearn* 16862 (SMS). Washington Co.: *Taylor* 1105 (SIU). White Co.: *D. Moore* 451039 (UARK). Yell Co.: *Taylor* 1192 (SIU).

The striking, deeply dissected *Asplenium platyneuron* f. *hortonae* (Davenp.) L. B. Smith is a sporadic, sterile plant. It was collected in Arkansas from a mossy, rock ledge on Petit Jean Mountain, Conway County by D. M Moore (D. Moore 480355 UARK).

51. ***Asplenium resiliens* Kunze**, *Linnaea* 18: 331. [*Asplenium parvulum* Mart. & Gal.]

Limestone, dolomite, and chert outcrops; primarily Ozark Highlands.

Baxter Co.: *Taylor* 1840 (SIU). Benton Co.: *Demaree* 4654 (F). Boone Co.: *Palmer* 6907 (MO). Carroll Co.: *Palmer* 29314 (MO). Garland Co.: *Engelmann* 10 (MO). Independence Co.: *Demaree* 28594 (SMU). Izard Co.: *Demaree* 17039 (SMU). Johnson Co.: *Johnson* 79033 (HXC). Lawrence Co.: *Taylor* 1788 (SIU). Madison Co.: *Haas* 1437 (UCA). Marion Co.: *Palmer* 43872 (MO). Newton Co.: *Taylor* 2698 (SIU). Randolph Co.: *Demaree* 26813 (SMU). Searcy Co.: *Taylor* 1243 (SIU). Sharp Co.: *Demaree* 26434 (SMU). Stone Co.: *Taylor* 1244 (SIU). Washington Co.: *Demaree* 2797 (UARK).

52. ***Asplenium rhizophyllum* L.**, *Sp. Pl.* 2: 1078. 1753. [*Camp-tosorus rhizophyllus* (L.) Link]

Moist, shaded, limestone and sandstone outcrops; chiefly Ozark Highlands and Boston Mountains.

Baxter Co.: *Taylor 1849* (SIU). Benton Co.: *Demaree 4616* (SMU). Carroll Co.: *Haas 1453* (UCA). Conway Co.: *Johnson 195* (HXC). Crawford Co.: *Redfearn 21086* (SMS). Franklin Co.: *Johnson 520* (HXC). Fulton Co.: *Wheeler 50* (F). Independence Co.: *Thomas 8494* (SMU). Izard Co.: *Barr s.n.* (UARK). Johnson Co.: *Redfearn 23826* (SMS). Lawrence Co.: *Taylor 1785* (SIU). Logan Co.: *Pyle 286* (APCR). Madison Co.: *Taylor 1994a* (SIU). Marion Co.: *D. Moore 380727* (UARK). Newton Co.: *Taylor 2696* (SIU). Pope Co.: *Taylor 1213* (SIU). Randolph Co.: *Demaree 26812* (SMU). Searcy Co.: *Taylor 2574* (SIU). Sharp Co.: *Demaree 25922* (SMU). Stone Co.: *Taylor 1246* (SIU). Van Buren Co.: *Palmer 24292* (UARK). Washington Co.: *Henbest 14* (UARK).

—. ***Asplenium ruta-muraria* L., Sp. Pl. 2: 1079. 1753.** [*Asplenium cryptolepis* Fern.]

Asplenium ruta-muraria was first reported from Arkansas in the list of Nuttall (1835). Lesquereux (1860) recorded this species from "limestone cliffs." Harvey (1881) also included *A. ruta-muraria* in his list, stating that he had specimens from Lesquereux said to have been collected in northeast Arkansas. Although no specimens have been located to confirm its presence in the state, *A. ruta-muraria* is included here on the basis of the above reports.

Asplenium ruta-muraria has been collected from a number of counties in southeast Missouri plus Stone, Ozark, Howell, Oregon, and Ripley Counties which border Arkansas to the north. In Missouri, *A. ruta-muraria* is found on north- and east-facing limestone outcrops (Steyermark, 1963, p. 30). Similar sites occur in the Ozark Highlands of Arkansas and field work in this region should yield specimens.

53. ***Asplenium trichomanes* L., Sp. Pl. 2: 1080. 1753.** [*Asplenium melanocaulon* Willd.]

Moist rock outcrops; Interior Highlands.

Baxter Co.: *Taylor 2685* (SIU). Benton Co.: *Taylor 1117* (SIU). Boone Co.: *Demaree 3246* (NY). Carroll Co.: *Palmer 5615* (MO). Cleburne Co.: *Palmer 6952* (MO). Conway Co.: *Demaree 23123* (MO). Crawford Co.: *Taylor 1098* (SIU). Faulkner Co.: *Buchholz 995* (UARK). Franklin Co.: *Taylor 1128* (SIU). Fulton Co.: *Palmer 14691* (MO). Garland Co.: *Palmer 23105* (UARK). Howard Co.: *Kellogg s.n.* (MO). Independence Co.: *Demaree 17099* (MO). Izard Co.: *Demaree 3275* (UARK). Johnson Co.: *Redfearn 23847* (SMS). Logan Co.: *Taylor 1031* (SIU). Madison Co.: *Davis 1503* (UARK). Marion Co.: *Taylor 1232* (SIU). Montgomery Co.: *J. Moore 3154* (UCA). Newton Co.: *Redfearn 23102* (SMS). Perry Co.: *Redfearn 24135* (SMS). Polk Co.: *J. Moore s.n.* (UARK). Pope Co.: *Robinette 2789* (UCA). Pulaski Co.: *Owens s.n.* (US). Sebastian Co.: *Taylor 2720* (SIU). Stone Co.: *D. Moore 450518* (UARK). Van Buren Co.: *Taylor 2561* (SIU). Washington Co.: *Demaree 3007* (UARK). White Co.: *Johnson 453* (HXC). Yell Co.: *Taylor 1194* (SIU).

54. ***Onoclea sensibilis* L., Sp. Pl. 2: 1062. 1753.**

Moist to wet soil along margins of streams and lakes, in meadows, woods, roadside ditches, and around springs.

Ashley Co.: *Taylor* 1888 (SIU). Benton Co.: *Pyle s.n.* (UARK). Bradley Co.: *Demaree* 23832 (SMU). Calhoun Co.: *Hoiberg* 307 (SMU). Clark Co.: *Demaree* 21920 (SMU). Clay Co.: *Demaree* 4140 (NY). Cleburne Co.: *Babb* 977 (ARKSU). Columbia Co.: *Johnson* 33 (HXC). Conway Co.: *J. Moore* 5 (UARK). Craighead Co.: *Demaree* 7038 (SMU). Crawford Co.: *Taylor* 1095 (SIU). Cross Co.: *D. Moore* 420380 (UARK). Faulkner Co.: *Spencer* 52 (HXC). Garland Co.: *Palmer* 24933 (UARK). Franklin Co.: *Davis* 444 (UARK). Greene Co.: *Demaree* 26661 (SMU). Hempstead Co.: *Taylor* 1175 (SIU). Independence Co.: *Johnson* 500 (HXC). Johnson Co.: *Redfearn* 23828 (SMS). Lawrence Co.: *Taylor* 2595 (SIU). Lee Co.: *Davis* 331 (ARKSU). Little River Co.: *Taylor* 2141 (SIU). Marion Co.: *Thomas* 16197 (SMU). Montgomery Co.: *Taylor* 2210 (SIU). Nevada Co.: *D. Moore* 410340 (UARK). Newton Co.: *Redfearn* 27519 (SMS). Ouachita Co.: *Demaree* 61376 (SMU). Perry Co.: *J. Moore* 3318 (UCA). Phillips Co.: *Palmer* 25128 (UARK). Pike Co.: *Demaree* 9974 (MO). Poinsett Co.: *Demaree* 3671 (SMU). Polk Co.: *J. Moore* 3150 (ARKSU). Pope Co.: *Redfearn* 17341 (SMS). Pulaski Co.: *Johnson* 114 (HXC). St. Francis Co.: *Lowman* 372 (HXC). Saline Co.: *Demaree* 53157 (SIU). Searcy Co.: *Taylor* 2577 (SIU). Sevier Co.: *Johnson* 150 (HXC). Union Co.: *Taylor* 1160 (SIU). Van Buren Co.: *Haas* 1477 (ARKSU). Washington Co.: *Buchholz* 1010 (UARK). White Co.: *Johnson* 210 (HXC). Woodruff Co.: *Johnson* 442 (HXC).

Onoclea sensibilis f. *obtusilobata* (Schkuhr) Gilb., with fronds somewhat intermediate in form between normal sterile and fertile fronds, was collected by F. L. Harvey without location (UARK 13) and by D. M. Moore at Crowley's Ridge State Park, Greene County (*D. Moore* 480680 UARK).

55. ***Athyrium filix-femina* (L.) Roth subsp. *asplenioides* (Michx.) Hulten, Kgl. Sv. Vet. Akad. Handl. 8: 178. 1962. [*Nephrodium asplenioides* Michx.; *Athyrium asplenioides* (Michx.) A. A. Eat.; *Asplenium asplenioides* (Michx.) Chapm.; *Athyrium filix-femina* var. *asplenioides* (Michx.) Farw.]**

Moist woodlands, stream banks, marshy areas around ponds and lakes, roadsides.

Ashley Co.: *Taylor* 1876 (SIU). Benton Co.: *Buchholz s.n.* (UARK). Bradley Co.: *Locke* 547 (UARK). Calhoun Co.: *Demaree* 22107 (MO). Carroll Co.: *Palmer* 3813 (NY). Clark Co.: *Taylor* 2177 (SIU). Clay Co.: *Rosen* 90 (UARK). Cleburne Co.: *Taylor* 1014 (SIU). Columbia Co.: *Taylor* 1167 (SIU). Conway Co.: *Demaree* 37230 (SMU). Craighead Co.: *Demaree* 3569 (MO). Crawford Co.: *Moore* 710287 (UARK). Cross Co.: *Palmer* 31665 (UARK). Dallas Co.: *Miller* 682 (UARK). Drew Co.: *Demaree* 22101 (SMU). Faulkner Co.: *Buchholz s.n.* (UARK). Franklin Co.: *D. Moore* 340684 (UARK). Garland Co.: *Taylor* 2555 (SIU). Grant Co.: *Taylor* 2723 (SIU). Greene Co.: *Demaree* 26695 (SMU). Hempstead Co.: *Taylor* 1177 (SIU). Hot Spring Co.: *Palmer* 26592

(UARK). Howard Co.: *D. Moore* 410263 (UARK). Independence Co.: *Demaree* 17099 (SMU). Izard Co.: *Demaree* 23512 (SMU). Jefferson Co.: *Demaree* 24069 (MO). Johnson Co.: *D. Moore* 450275 (UARK). Lawrence Co.: *Demaree* 520965 (SIU). Little River Co.: *Palmer* 8353 (MO). Logan Co.: *Taylor* 1038 (SIU). Lonoke Co.: *Clark* 663 (HXC). Madison Co.: *Davis* 1504 (UARK). Miller Co.: *Palmer* 10530 (MO). Montgomery Co.: *Taylor* 1072 (SIU). Nevada Co.: *Bush* 694 (MO). Newton Co.: *D. Moore* 480752 (UARK). Ouachita Co.: *D. Moore* 490652 (UARK). Perry Co.: *J. Moore* 6616 (UCA). Phillips Co.: *Palmer* 25146 (UARK). Pike Co.: *Taylor* 2169 (SIU). Poinsett Co.: *Demaree* 3667 (SMU). Polk Co.: *Taylor* 1069 (SIU). Pope Co.: *Robinette* 2795 (UCA). Pulaski Co.: *Demaree* 8899 (SMU). St. Francis Co.: *Clark* 613 (HXC). Saline Co.: *Demaree* 23034 (MO). Union Co.: *Taylor* 1160 (SIU). Van Buren Co.: *Palmer* 24294 (MO). Washington Co.: *Hite* 23 (UARK). White Co.: *Johnson* 458 (HXC).

The narrow blade form of subsp. *asplenioides*, which has "the blade narrowed below so as to approach an elliptic outline," has been distinguished as f. *ellipticum* by Wherry (1948) and has been collected from a number of counties in the state. However, in Arkansas it appears that this form is scarcely justifiable for fronds assignable to f. *ellipticum* may be found in nearly every population of subsp. *asplenioides*. Elliptical blades have been noted particularly in juvenile plants and in early, spring foliage.

The striking, highly dissected f. *subtripinnatum* Butters, which has pinnules that are deeply cut into oblong segments, was collected in Pike County by D. Demaree (F 1420306). Additional collections from Harrisburg, Poinsett County; Pelsor, Pope County; and Grassy Lake, Hempstead County have been reported by Moore (1940).

56. **Athyrium pycnocarpon** (Spreng.) Tidest., Elys. Marianum 1: 36. 1906. [*Asplenium angustifolium* Michx.; *Asplenium pycnocarpon* Spreng.; *Diplazium angustifolium* (Michx.) Butters; *Diplazium pycnocarpon* (Spreng.) Broun]

Rocky slopes and ravines in moist, rich woods; primarily Ozark Highlands and Boston Mountains.

Benton Co.: *Demaree* 4494 (SMU). Carroll Co.: *Palmer* 3813 (US). Cleburne Co.: *Babb* 1596 (ARKSU). Crawford Co.: *Taylor* 1097 (SIU). Franklin Co.: *Davis* 1357 (UARK). Independence Co.: *Thomas* 8568 (NLU). Johnson Co.: *Redfearn* 18927 (SMS). Marion Co.: *D. Moore* 410516 (UARK). Newton Co.: *Taylor* 2694 (SIU). Phillips Co.: *Clark* 446 (HXC). Pope Co.: *Tucker* 3545 (APCR). Searcy Co.: *D. Moore* 350149 (UARK). Stone Co.: *Graham* 373 (APCR). Van Buren Co.: *Palmer* 24302 (UARK). Washington Co.: *Palmer* 27037 (MO).

57. **Athyrium thelypteroides** (Michx.) Desv., Mem. Soc. Linn. Paris 6: 266. 1827. [*Asplenium acrostichoides* Sw.; *Asplenium thelypteroides* Michx.; *Diplazium acrostichoides* (Sw.) Butters]

Moist, rich woods; near streams and on shaded slopes.

Hot Spring Co.: *Redfearn* 24143 (SMS). Johnson Co.: *Johnson* 47 (HXC). Logan Co.: *D. Moore* 420124 (SMU). Madison Co.: *Davis* 1506 (UARK). Phillips Co.: *Akers* 42 (HXC).

58. ***Cystopteris bulbifera* (L.) Bernh., Neu. Journ. Bot. Schrad. 1(2): 10. 1806. [*Polypodium bulbiferum* L.]**

Moist, shaded outcrops of limestone, dolomite, calcareous sandstone and shale; primarily Ozark Highlands.

Baxter Co.: *D. Moore* 510522 (UARK). Benton Co.: *Demaree* 4897 (F). Carroll Co.: *D. Moore* 58218 (UARK). Fulton Co.: *Wheeler* 13 (F). Howard Co.: *Kellogg s.n.* (MO). Independence Co.: *Thomas* 8302 (NLU). Johnson Co.: *Redfearn* 23832 (SMS). Madison Co.: *Palmer* 24796 (MO). Marion Co.: *Palmer* 4780 (MO). Newton Co.: *Taylor* 2693 (SIU). Pope Co.: *Key* 383 (SMS). St. Francis Co.: *Johnson* 441 (HXC). Searcy Co.: *Taylor* 2579 (SIU). Sharp Co.: *Demaree* 26436 (SMU). Stone Co.: *Taylor* 2899 (SIU). Van Buren Co.: *Palmer* 25192 (MO). Washington Co.: *Palmer* 27033 (MO).

59. ***Cystopteris protrusa* (Weatherby) Blasdell, Mem. Torrey Bot. Club 21: 41. 1963. [*Cystopteris fragilis* var. *protrusa* Weatherby]**

Moist, shaded, humus-rich, loam soils of woodlands; Interior Highlands and Crowley's Ridge.

Benton Co.: *Demaree* 6517 (UARK). Craighead Co.: *Richards* 6346 (ARKSU). Crawford Co.: *Taylor* 1100 (SIU). Franklin Co.: *Johnson* 528 (HXC). Garland Co.: *D. Moore* 480192 (UARK). Hot Spring Co.: *Palmer* 29708 (UARK). Johnson Co.: *Johnson* 48 (HXC). Logan Co.: *Taylor* 1047 (SIU). Newton Co.: *D. Moore* 480225 (UARK). Phillips Co.: *Lowman* 98 (HXC). Polk Co.: *Taylor* 1065 (SIU). Searcy Co.: *D. Moore* 350143 (UARK). Sharp Co.: *Demaree* 27712 (SMU). Stone Co.: *D. Moore* 510354 (UARK). Van Buren Co.: *Johnson* 152 (HXC). Washington Co.: *Hite* 24 (UARK). White Co.: *Johnson* 221 (HXC).

60. ***Cystopteris tennesseensis* Shaver, Journ. Tenn. Acad. Sci. 25: 107. 1950. [*Cystopteris fragilis* f. *simulans* Weatherby; *Cystopteris fragilis* var. *simulans* (Weatherby) McGregor; *Cystopteris fragilis* var. *tennesseensis* (Shaver) McGregor]**

Moist, shaded outcrops of sandstone, limestone, dolomite, and shale; Interior Highlands.

Baxter Co.: *Taylor* 2679 (SIU). Benton Co.: *Taylor* 1122 (SIU). Conway Co.: *J. Moore* 1089 (SMU). Fulton Co.: *Wheeler* 39 (UARK). Independence Co.: *Thomas* 7753 (NLU). Izard Co.: *Taylor* 1267 (SIU). Johnson Co.: *Redfearn* 23833 (SMS). Logan Co.: *Pyle* 280 (APCR). Madison Co.: *Key* 270 (SMS). Marion Co.: *Taylor* 1235 (SIU). Newton Co.: *Redfearn* 23479 (SMS). Pope Co.: *D. Moore* 520756 (UARK). Randolph Co.: *Demaree* 26816 (SMU). Scott Co.: *Demaree* 58499 (UARK). Searcy Co.: *Taylor* 1240 (SIU). Stone Co.: *Taylor* 1245 (SIU). Van Buren Co.: *Demaree* 4753 (UARK). Washington Co.: *Haas* 1471 (UCA).

61. **Woodsia obtusa** (Spreng.) Torr., Cat. Pl. in Geol. Rep. N. Y., 195. 1840. [*Polypodium obtusum* Spreng.]

Well drained, rocky or sandy soils of woodlands, rock outcrops, along roadsides and fence rows, occasionally on old rock walls.

Baxter Co.: *Taylor* 1829 (SIU). Benton Co.: *Taylor* 1121 (SIU). Boone Co.: *D. Moore* 490380 (UARK). Calhoun Co.: *Demaree* 22105 (SMU). Carroll Co.: *Palmer* 4537 (MO). Clark Co.: *Taylor* 2190 (SIU). Clay Co.: *Demaree* 30417 (SMU). Cleburne Co.: *Taylor* 1018 (SIU). Cleveland Co.: *Taylor* 2737 (SIU). Columbia Co.: *Thomas* 27931 (NLU). Conway Co.: *Demaree* 23115 (SIU). Crawford Co.: *Taylor* 1099 (SIU). Cross Co.: *Richards* 3946 (ARKSU). Faulkner Co.: *Taylor* 2011 (SIU). Franklin Co.: *Taylor* 1129 (SIU). Fulton Co.: *Taylor* 2666 (SIU). Garland Co.: *Taylor* 2232 (SIU). Greene Co.: *Hess* 1132 (SMU). Hempstead Co.: *Bush* 5711 (MO). Hot Spring Co.: *Demaree* 16539 (SMU). Howard Co.: *McSwain* 43E70 (UARK). Independence Co.: *Demaree* 27150 (SMU). Izard Co.: *Taylor* 2137 (SIU). Jefferson Co.: *Locke* 1224 (UARK). Johnson Co.: *Taylor* 1088 (SIU). Lawrence Co.: *Taylor* 1786 (SIU). Lee Co.: *Demaree* 37377 (SMU). Little River Co.: *Johnson* 474 (HXC). Logan Co.: *Taylor* 1033 (SIU). Madison Co.: *Taylor* 1997 (SIU). Marion Co.: *Taylor* 1229 (SIU). Miller Co.: *Taylor* 1910 (SIU). Montgomery Co.: *Taylor* 1081 (SIU). Newton Co.: *D. Moore* 480228 (UARK). Ouachita Co.: *Demaree* 63771 (SIU). Perry Co.: *Demaree* 27051 (SMU). Pike Co.: *Taylor* 2170 (SIU). Polk Co.: *Hoiberg* 560 (SMU). Pope Co.: *Taylor* 1200 (SIU). Pulaski Co.: *Demaree* 17375 (MO). Randolph Co.: *Taylor* 1081 (SIU). St. Francis Co.: *Demaree* 22149 (SMU). Saline Co.: *Demaree* 23042 (SMU). Scott Co.: *Taylor* 2715 (SIU). Searcy Co.: *Taylor* 1241 (SIU). Sebastian Co.: *Taylor* 2712 (SIU). Sharp Co.: *Taylor* 1817 (SIU). Stone Co.: *Taylor* 1249 (SIU). Van Buren Co.: *Wherry* s.n. (PH). Washington Co.: *Taylor* 1115 (SIU). White Co.: *Demaree* 26902 (SMU). Yell Co.: *Taylor* 1193 (SIU).

62. **Woodsia scopulina** D. C. Eat. var. **appalachiana** (T. M. C. Taylor) Morton, Amer. Fern J. 40: 224. 1950. [*Woodsia appalachiana* T. M. C. Taylor]

Logan Co.: ledges of sandstone outcrops and talus on north side, near summit of Magazine Mountain; *Taylor* 1045 (SIU).

63. **Polystichum acrostichoides** (Michx.) Schott, Gen. Fil. pl. 9. 1834. [*Nephrodium acrostichoides* Michx.; *Aspidium acrostichoides* (Michx.) Sw.]

Rich, rocky, wooded slopes and ravines, along stream banks, and in alluvial woods; nearly throughout the state.

Arkansas Co.: *Wherry* s.n. (PH). Ashley Co.: *Taylor* 1878 (SIU). Baxter Co.: *D. Moore* 450747 (UARK). Benton Co.: *D. Moore* 460154 (UARK). Boone Co.: *Demaree* s.n. (UARK). Bradley Co.: *Demaree* 21025 (UARK). Carroll Co.: *Bush* 15424 (UARK). Clark Co.: *Taylor* 2174 (SIU). Clay Co.: *Demaree* 27019 (SMU). Cleburne Co.: *Taylor* 1021 (SIU). Cleveland Co.: *Locke* 2268 (UARK). Columbia Co.: *Johnson* 35 (HXC). Conway Co.: *Demaree* 22791 (MO). Craighead Co.: *Demaree* 3493 (SMU). Crawford Co.: *Taylor* 1094 (SIU). Cross Co.: *Palmer* 31660 (UARK). Dallas Co.: *Taylor* 1134

(SIU). Drew Co.: *Palmer 44222* (SMU). Faulkner Co.: *Buchholz 929* (UARK). Franklin Co.: *Johnson 519* (HXC). Fulton Co.: *Wheeler 40* (F). Garland Co.: *Taylor 2194* (SIU). Grant Co.: *Taylor 2725* (SIU). Greene Co.: *Demaree 4009* (NY). Hempstead Co.: *Bush 1651* (NY). Hot Spring Co.: *Palmer 26575* (MO). Howard Co.: *McSwain 43E65* (UARK). Independence Co.: *Demaree 17068* (MO). Izard Co.: *Taylor 2135* (SIU). Jefferson Co.: *Demaree 24084* (MO). Johnson Co.: *D. Moore 450264* (UARK). Lawrence Co.: *Taylor 1792* (SIU). Lee Co.: *Taylor 1184* (SIU). Logan Co.: *Taylor 1034* (SIU). Lonoke Co.: *Clark 680* (HXC). Madison Co.: *Taylor 1996* (SIU). Marion Co.: *Taylor 1236* (SIU). Miller Co.: *Taylor 1173* (SIU). Montgomery Co.: *Taylor 1074* (SIU). Nevada Co.: *D. Moore 420463* (UARK). Newton Co.: *Taylor 1222* (SIU). Ouachita Co.: *Demaree 16844* (MO). Perry Co.: *Taylor 2852* (SIU). Phillips Co.: *Taylor 1189* (SIU). Pike Co.: *Demaree 9419* (SMU). Poinsett Co.: *D. Moore 31057* (APCR). Polk Co.: *Taylor 1068* (SIU). Pope Co.: *Taylor 1205* (SIU). Prairie Co.: *Taylor 1182* (SIU). Pulaski Co.: *Merrill 1425* (UARK). St. Francis Co.: *Demaree 22156* (MO). Saline Co.: *Palmer 8442* (MO). Scott Co.: *Taylor 1056* (SIU). Searcy Co.: *Taylor 1851* (SIU). Sevier Co.: *Brinkley 349* (F). Sharp Co.: *Schmitt 11* (ARKSU). Stone Co.: *Taylor 1252* (SIU). Union Co.: *Taylor 1154* (SIU). Van Buren Co.: *Taylor 2563* (SIU). Washington Co.: *Taylor 1104* (SIU). White Co.: *Johnson 455* (HXC). Yell Co.: *Taylor 1196* (SIU).

Fronds of *Polystichum acrostichoides*, which bear pinnae that are coarsely serrate to lobed and that sometimes have scattered sori extending to the tips of the lower pinnae, have been recognized as f. *incisum* (Gray) Gilb. Specimens bearing these variously cut pinnae and scattered sori have been noted from a number of collections in the state.

64. *Dryopteris celsa* (W. Palmer) Small, Ferns Southeastern States, 284. 1938. [*Dryopteris goldiana* var. *celsa* W. Palmer]

Moist to wet, shaded, rocky humus around seeps near streams in rich woods.

Lawrence Co.: York Springs; ca. 3.5 mi. S of Imboden; *Marshall 9* (US). Montgomery Co.: along Forest Service Road 43; ca. 0.7 mi. S of jct. with Hwy. 8; *Taylor 2845* (SIU). Polk Co.: valley of Big Fork Creek on north side of Missouri Mountain; along Forest Service Road 38; ca. 2 mi. S of Big Fork and along Forest Service Road 216; ca. 1 mi. N of Big Fork; *D. Moore 520840* (US).

65. *Dryopteris* × *leedsii* Wherry, *Bartonia* 21: 2. 1942.

Van Buren Co.: moist, wooded, rocky slope below northwest-facing bluffs; along the west bank of the Middle Fork of the Little Red River; ca. 0.5 mi. SW of Shirley; sect. 25, T12N, R13W; *Taylor 2597* (SIU).

66. *Dryopteris marginalis* (L.) Gray, *Man.* 632. 1848. [*Polypodium marginale* L.; *Aspidium marginale* (L.) Sw.; *Nephrodium marginale* (L.) Michx.; *Thelypteris marginalis* (L.) Nieuw.]

Rich, rocky slopes and ravine woods, exposed or shaded outcrops; Interior Highlands.

Baxter Co.: *Taylor* 2689 (SIU). Benton Co.: *Taylor* 1119 (SIU). Boone Co.: *Redfearn* 12376 (SMS). Cleburne Co.: *Palmer* 6964 (MO). Conway Co.: *Demaree* 22792 (MO). Crawford Co.: *Redfearn* 21082 (SMS). Faulkner Co.: *Buchholz* 950 (UARK). Franklin Co.: *Stephens* 10582 (NY). Garland Co.: *Taylor* 2195 (SIU). Hot Spring Co.: *Demaree* 19033a (NY). Independence Co.: *D. Moore* 450510 (UARK). Izard Co.: *Taylor* 2132 (SIU). Johnson Co.: *Redfearn* 18920 (SMS). Logan Co.: *Taylor* 1039 (SIU). Madison Co.: *Taylor* 1999 (SIU). Marion Co.: *D. Moore* 41052 (UARK). Montgomery Co.: *Taylor* 1085 (SIU). Newton Co.: *Redfearn* 23587 (SMS). Perry Co.: *Johnson* 481 (HXC). Pike Co.: *Demaree* 9486 (SMU). Polk Co.: *Taylor* 1060 (SIU). Pope Co.: *Taylor* 1212 (SIU). Pulaski Co.: *Demaree* 8477 (MO). Searcy Co.: *Spessard* 149 (HXC). Scott Co.: *Taylor* 271 (SIU). Sebastian Co.: *Palmer* 33287 (NY). Stone Co.: *D. Moore* 450610 (UARK). Van Buren Co.: *Taylor* 2562 (SIU). Washington Co.: *Redfearn* 14818 (SMS). White Co.: *Johnson* 216 (HXC). Yell Co.: *Taylor* 1195 (SIU).

Two luxuriant forms of *Dryopteris marginalis* have been collected in Arkansas. Forma *tripinnatifida* (Clute) Weatherby, which has pinnules that are deeply lobed, has been found in Montgomery County at Camp Albert Pike along the Little Missouri River (*Taylor* 1085 SIU). Forma *elegans* (J. Robinson) F. W. Gray, with the pinnules pinnatifid, long, and overlapping the pinnules of adjacent pinnae, has been collected from Magnet Cove, Hot Spring County (*Demaree* 19033a NY).

67. ***Dryopteris spinulosa*** (O. F. Muell.) Watt, Can. Nat. II 3: 159. 1867. [*Polypodium spinulosum* O. F. Muell.; *Aspidium spinulosum* (O. F. Muell.) Sw.; *Dryopteris austriaca* var. *spinulosa* (O. F. Muell.) Fiori; *Dryopteris carthusiana* (Villars) H. P. Fuchs]

Stone Co.: rich, moist humus on a limestone outcrop sloping toward the entrance of Rowland Cave; ca. 1 mi. N of Fifty-six; *Taylor* 2894 (SIU).

BLECHNACEAE

68. ***Lorinseria areolata*** (L.) Presl, Epim. Bot. 72. 1851. [*Acrostichum areolatum* L.; *Woodwardia angustifolia* J. Smith; *Woodwardia areolata* (L.) Moore]

Moist to wet woods, along streams, marshy areas, roadside ditches, occasionally on sandstone outcrops; primarily Ouachita Mountains and West Gulf Coastal Plain.

Bradley Co.: *Demaree* 18381 (MO). Cleburne Co.: *Johnson* 436 (HXC). Clark Co.: *Taylor* 2180 (SIU). Columbia Co.: *Taylor* 1170 (SIU). Conway Co.: *Culwell* 3328 (UCA). Crawford Co.: *D. Moore* 66121 (APCR). Cross Co.: *Richards* 3963 (ARKSU). Dallas Co.: *Taylor* 2733 (SIU). Drew Co.: *D. Moore* 420045 (UARK). Franklin Co.: *Barber* 1026 (UARK). Garland Co.: *Taylor* 2556 (SIU). Grant Co.: *Demaree* 57196 (SIU). Hempstead Co.: *Taylor* 1176 (SIU). Hot Spring Co.: *D. Moore* 440088 (UARK).

Howard Co.: *McSwain 43E128* (UARK). Independence Co.: *Johnson 302* (HXC). Izard Co.: *Demaree 22436* (MO). Jefferson Co.: *Demaree 24294* (SMU). Logan Co.: *D. Moore 510073* (UARK). Lonoke Co.: *Clark 662* (HXC). Madison Co.: *Taylor 4274* (SIU). Miller Co.: *Taylor 1908* (SIU). Montgomery Co.: *Taylor 1079* (SIU). Nevada Co.: *Pule 587* (UARK). Ouachita Co.: *D. Moore 490668* (UARK). Perry Co.: *J. Moore 6603* (UCA). Pike Co.: *Taylor 2910* (SIU). Poinsett Co.: *Pyle 587* (UARK). Polk Co.: *Taylor 2552* (SIU). Pope Co.: *Tucker 16079* (APCR). Pulaski Co.: *Demaree 8478* (SMU). Saline Co.: *Haas 1435* (UCA). Stone Co.: *Tucker 3581* (APCR). Union Co.: *Demaree 19408* (SMU). Yell Co.: *Taylor 4367* (SIU).

A frond of *Lorinseria areolata* collected in Pike County by D. Demaree (*Demaree 9785* HXC) has the blade abnormally expanded so that it is more or less intermediate between a fertile and sterile frond. This intermediate condition has been described as f. *obtusilobata* by Waters (1903, p. 128).

69. **Woodwardia virginica** (L.) J. Smith, Mem. Acad. Turin 5: 411. 1793. [*Blechnum virginicum* L.; *Anchistea virginica* (L.) Presl]

Low, wet, sandy soil of woodlands; chiefly West Coastal Plain.

Cleveland Co.: *Taylor 1141* (SIU). Columbia Co.: *Taylor 1166* (SIU). Garland Co.: *D. Moore 410418* (UARK). Hempstead Co.: *D. Moore 56179* (UARK). Hot Spring Co.: *D. Moore 440081* (UARK). Jefferson Co.: *Locke 1309* (UARK). Nevada Co.: *D. Moore 490643* (UARK). Saline Co.: *D. Moore 410434* (UARK). Union Co.: *D. Moore 410335* (UARK).

MARSILEACEAE

70. **Marsilea uncinata** A. Br., Flora 22: 304. 1839. [*Marsilea vestita* var. *uncinata* (A. Br.) Baker]

Margins of ponds, small streams and swamps in the Arkansas River Valley and the Mississippi Alluvial Plain.

Arkansas Co.: edge of pond; Arkansas Post National Memorial; *Taylor 1863* (SIU). Chicot Co.: muddy flat inside levee near small stream; Refuge Plantation; ca. 0.3 mi. S of Hwy. 82; *McDaniel 20043* (SIU). Crawford Co.: in water along edge of swamp; "old government ditch" near W end of Vine Prairie Lake; ca. 3 mi. SW of Mulberry; *Barber s.n.* (APCR). Pulaski Co.: a small pond in the Arkansas River bottoms below Little Rock; near Sevier's farm; *Engelmann 33* TYPE (MO).

71. **Marsilea vestita** var. **mucronata** (A. Br.) Baker, J. Bot. 24: 279. 1886. [*Marsilea mucronata* A. Br.]

Bradley Co.: temporary pools in hard pan of open, savanna like area; ca. 7 mi. SE of Warren; *Demaree 18969* (MO).

72. **Pilularia americana** A. Br., Monatsb. Kon., Akad. Wiss. Berlin 1863, 435. 1864.

Margins of lakes; Interior Highlands.

Conway Co.: Cedar Lake and Bailey Lake; *Taylor* 2883 (SIU). Faulkner Co.: Beaverfork Lake; *J. Moore* 6608 (UCA). Garland Co.: Lake Hamilton; *D. Moore* 480532 (UARK). Logan Co.: Cove Lake; *D. Moore* 490427 (UARK). Sebastian Co.: near Ft. Smith; *Nuttall* 180 TYPE (MO). Washington Co.: Lake Wedington; *D. Moore* 480774 (MO).

AZOLLACEAE

73. *Azolla mexicana* Presl, Abh. Bohm. Ges. Wiss. 3: 150. 1845.

Floating on still waters of lakes, ponds, creeks, and ditches or occasionally stranded along their desiccated margins.

Arkansas Co.: *Taylor* 1858 (SIU). Chicot Co.: *Taylor* 1869 (SIU). Conway Co.: *Johnson* 478 (HXC). Crittenden Co.: *Taylor* 2822 (SIU). Drew Co.: *Demaree* 17625 (SMU). Faulkner Co.: *Engelmann* 127 (MO). Hempstead Co.: *Taylor* 1180 (SIU). Jefferson Co.: *Locke* 2133 (UARK). Lawrence Co.: *McNalty* 652 (ARKSU). Phillips Co.: *Richards* 4793 (ARKSU). Pulaski Co.: *Engelmann* 126 (MO). St. Francis Co.: *McDaniel* 1097 (NY). Washington Co.: *D. Moore* 4184 (UARK).

DOUBTFUL AND EXCLUDED TAXA

***Asplenium montanum* Willd.**

Small (1938) included Arkansas in the range he gave for *A. montanum*. No voucher specimens have been found to support the occurrence of this species in Arkansas.

***Athyrium filix-femina* subsp. *angustum* (Willd.) Clausen**
[*Athyrium angustum* (Willd.) Presl]

Scully (1939) reported *A. angustum* from Hot Springs National Park. The isolated occurrence of this northern taxon in southern Arkansas is doubtful. No specimens have been found to support its presence in the state.

***Azolla caroliniana* Willd.**

On the basis of vegetative characters and the occurrence of septate glochidia (when reproductive structures are present), all the Arkansas material of *Azolla* has been identified as *A. mexicana*.

***Botrychium multifidum* var. *silaifolium* (Presl) Broun**

Moore (1940) listed this plant from "low woods, St. Francis River and Hempstead County." The presence of this northern taxon in Arkansas is untenable. No specimens have been found to support such a listing for Arkansas.

Cheilanthes eatoni Baker

Branner and Coville (1891) reported this plant "in clefts in the rocks at Mountain Park, Big Rock, near Little Rock." Coville's specimen of *C. eatoni* has been found to be *C. tomentosa* (Buchholz, 1924).

Cystopteris fragilis (L.) Bernh.

All of the Arkansas specimens that have been identified as *C. fragilis* or *C. fragilis* var. *mackayi* Laws. are either *C. protrusa* or *C. tennesseensis*.

Dryopteris clintoniana var. **australis** Wherry [*D.* × *australis* (Wherry) Small]

The listing of this taxon in Arkansas (Moore, 1940) is based on a misidentification. Specimens bearing this name are referable to *D.* × *leedsii*.

Dryopteris cristata (L.) Gray

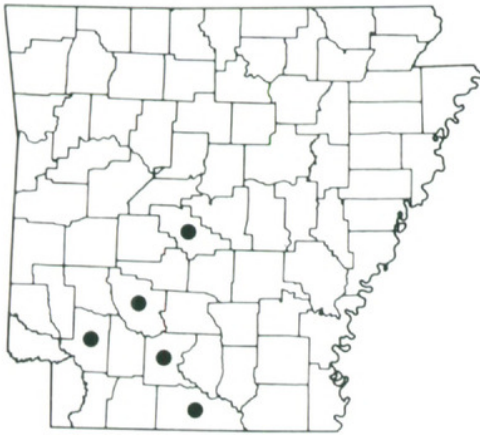
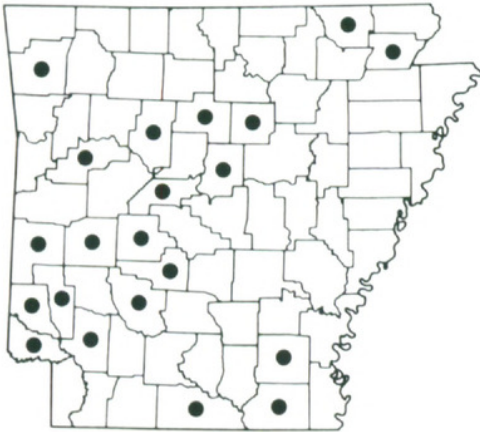
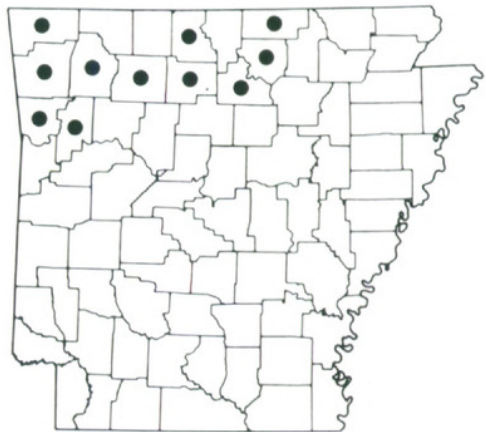
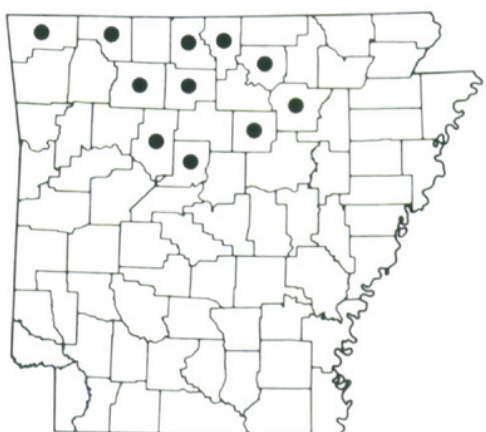
Reports of this species in Arkansas apparently are founded on misidentifications. *Dryopteris cristata* has been maintained in all Arkansas pteridophyte lists since Lesquereux (1860) reported it in "swamps and woods". Moore (1940) also described this species as occurring in the "swamps of southeastern Arkansas." *Dryopteris cristata* is a northern species with a circumboreal distribution and reports as far south as "southeastern Arkansas" are extremely dubious (Thomas, Wagner, and Mesler, 1973). Repeated searches for Arkansas voucher specimens of this plant have been unsuccessful.

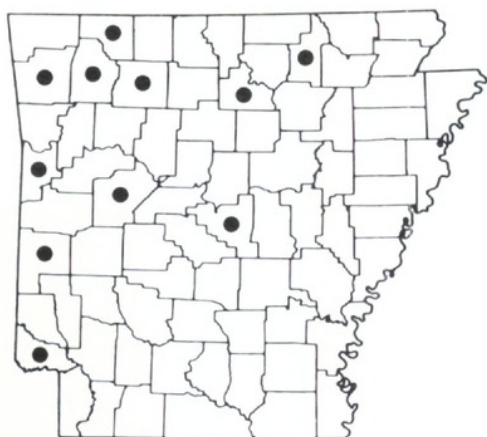
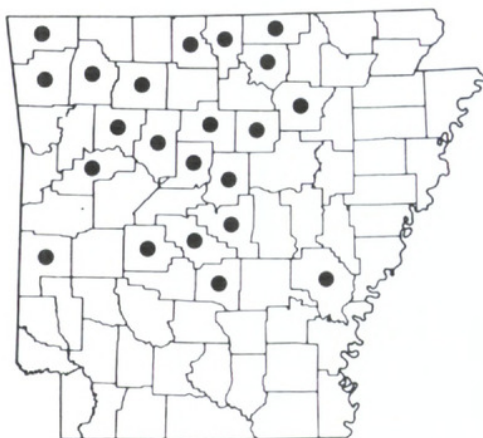
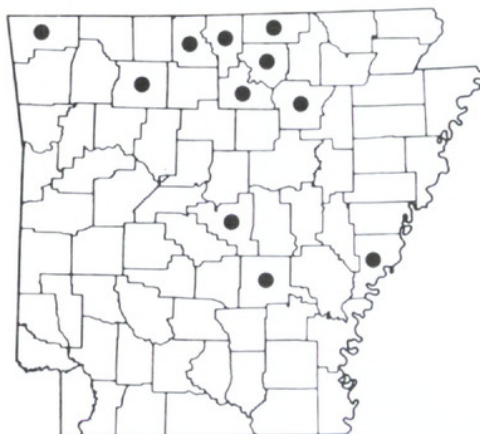
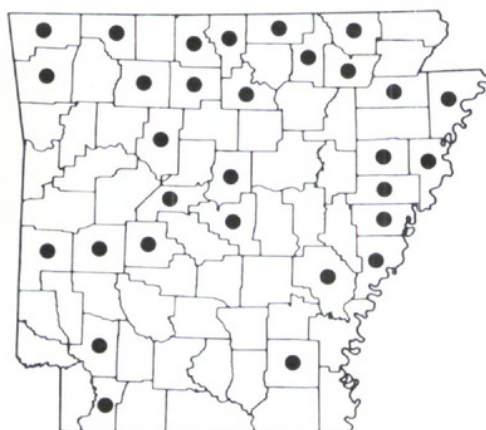
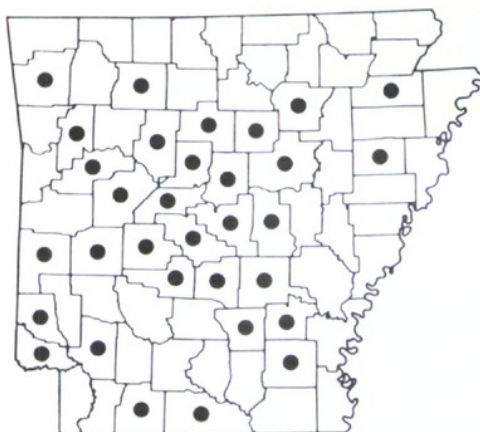
Equisetum laevigatum Engelm. [*E. kansanum* Schaffner]

Moore (1940) reported this species from Newton and Faulkner Counties. All specimens that have been examined from Arkansas, and identified as *E. laevigatum*, are referable to either *E. hyemale* var. *affine* or *E.* × *ferrissii*.

Pteridium aquilinum subsp. **caudatum** (L.) Bonap. [*Pteris aquilina* var. *caudata* (L.) Link]

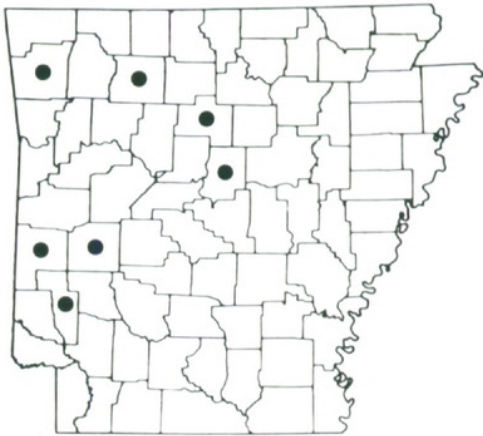
Harvey (1881) listed this taxon as "... found all over the southern part of the state ..." apparently confusing it with var. *pseudocaudatum*. Subspecies *caudatum*, a more southern taxon, is known from the West Indies, Florida, Mexico, Central America, and the coastal regions of northern South America (Tryon, 1941).

1. *Lycopodium appressum*2. *Lycopodium lucidulum*3. *Selaginella apoda*4. *Selaginella eclipes*5. *Selaginella riddellii*6. *Selaginella rupestris*

7. *Isoetes butleri*8. *Isoetes melanopoda*9. *Equisetum arvense*10. *Equisetum X ferrissii*11. *Equisetum hyemale*
var. *affine*12. *Botrychium biternatum*



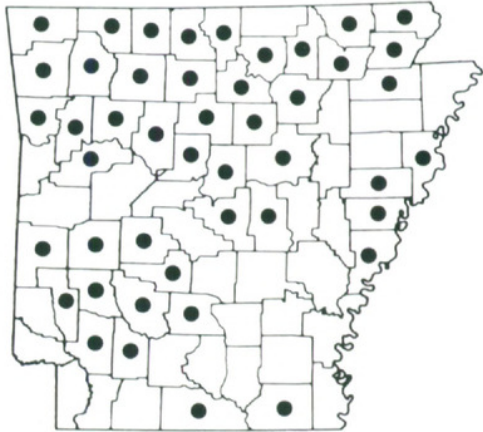
13a. *Botrychium dissectum*
var. *dissectum*



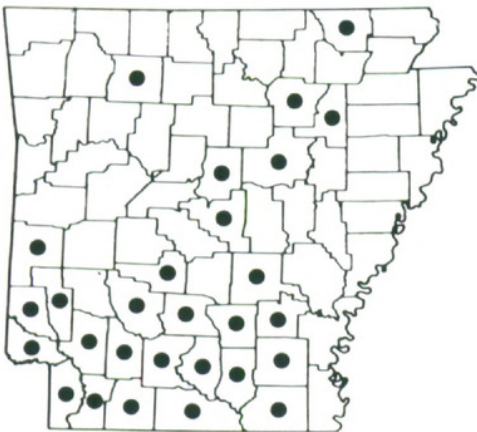
13b. *Botrychium dissectum*
var. *obliquum*



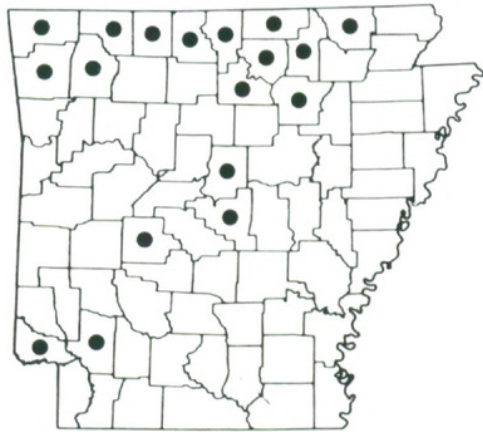
14. *Botrychium lunarioides*



15. *Botrychium virginianum*



16. *Ophioglossum crotalophoroides*



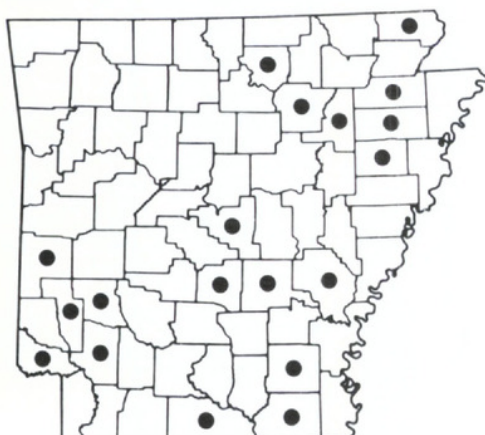
17. *Ophioglossum engelmannii*



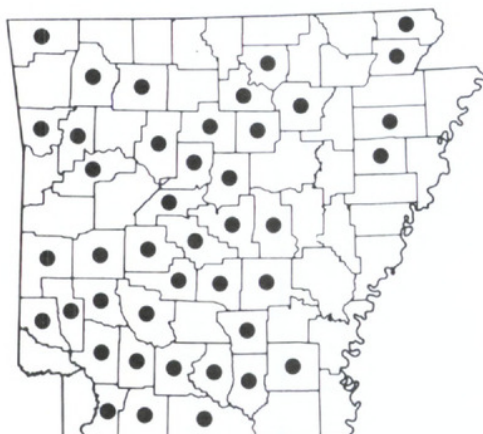
18. *Ophioglossum nudicaule*
var. *tenerum*



19. *Ophioglossum petiolatum*



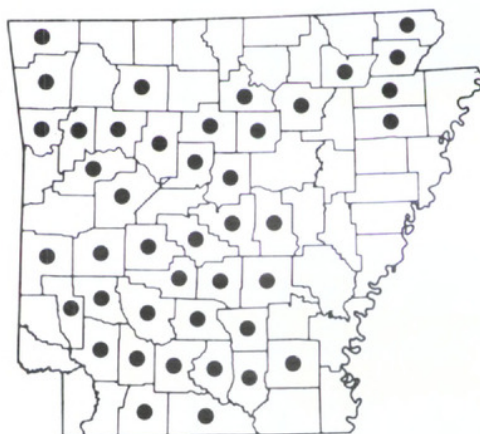
20. *Ophioglossum vulgatum*
var. *pycnostichum*



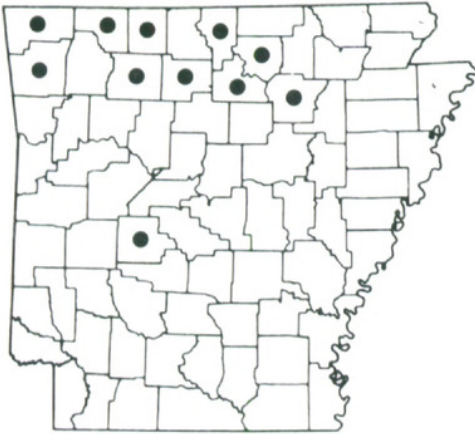
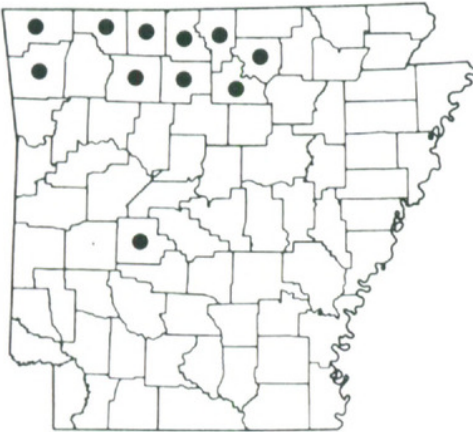
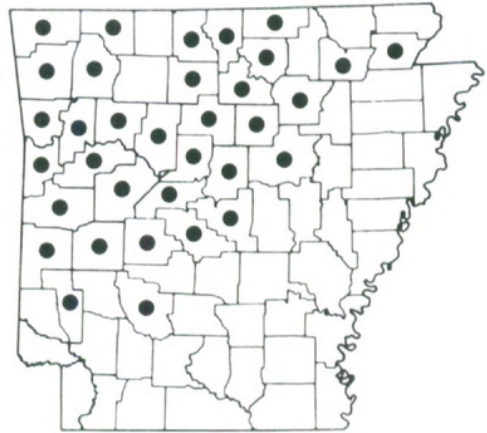
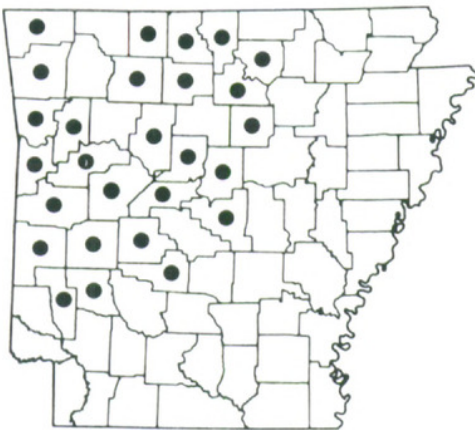
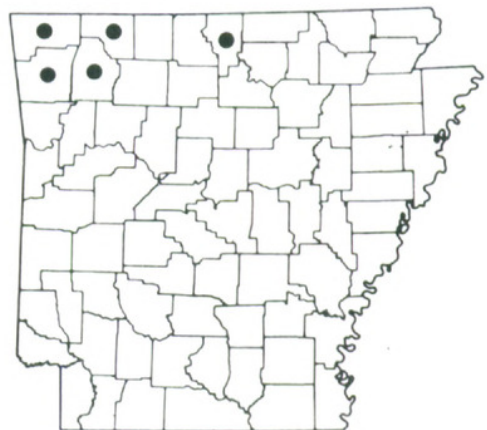
21. *Osmunda cinnamomea*

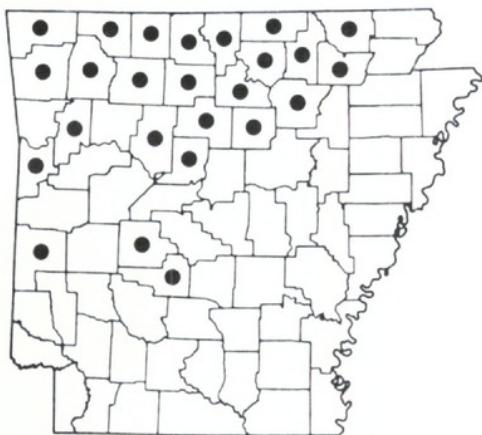
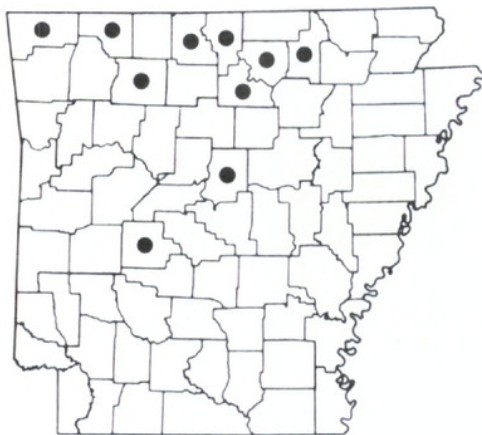
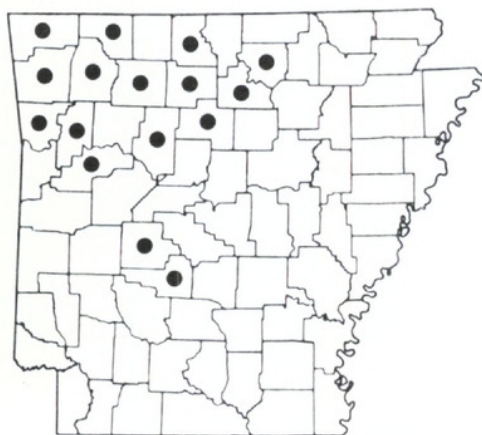
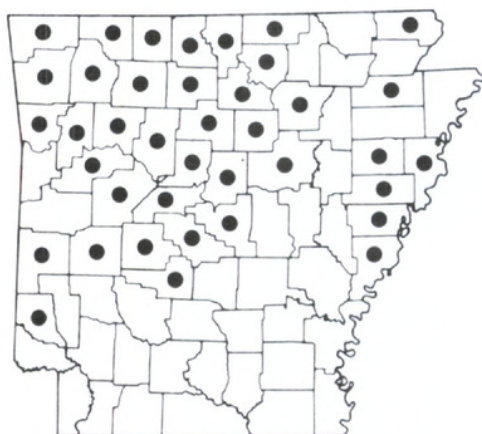


22. *Osmunda claytoniana*



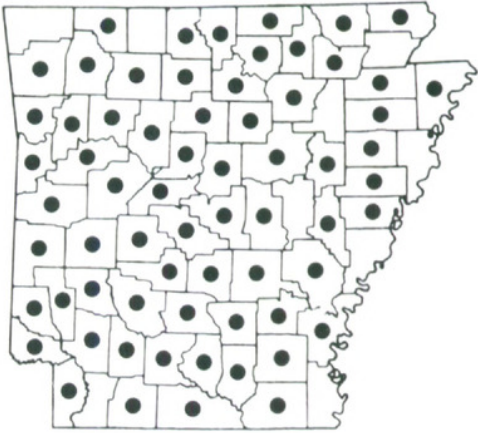
23. *Osmunda regalis*
var. *spectabilis*

24. *Cheilanthes alabamensis*25. *Cheilanthes castanea*26. *Cheilanthes feei*27. *Cheilanthes lanosa*28. *Cheilanthes tomentosa*29. *Notholaena dealbata*

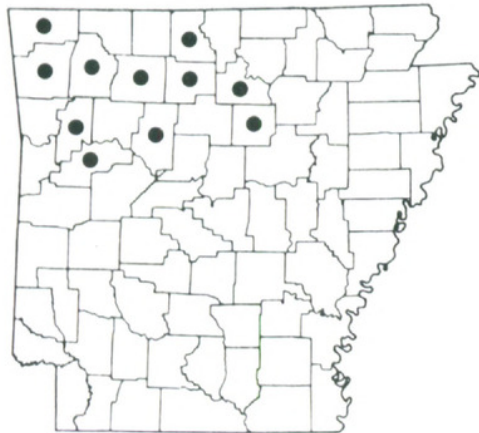
30. *Pellaea atropurpurea*31. *Pellaea glabella*32. *Adiantum capillus-veneris*33. *Adiantum pedatum*34. *Pteris multifida*35. *Trichomanes boschianum*



36. *Trichomanes petersii*



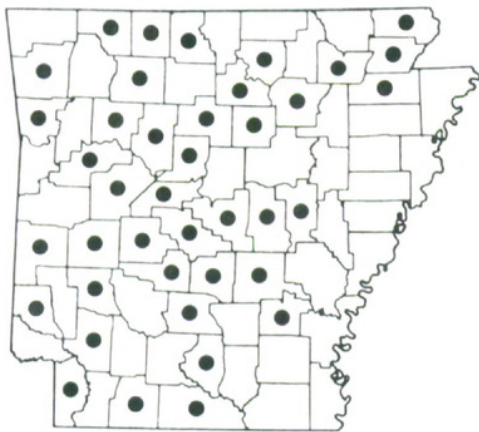
37. *Polypodium polypodioides*
var. *michauxianum*



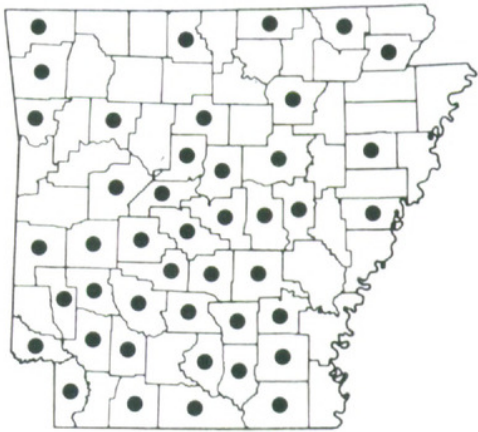
38. *Polypodium virginianum*



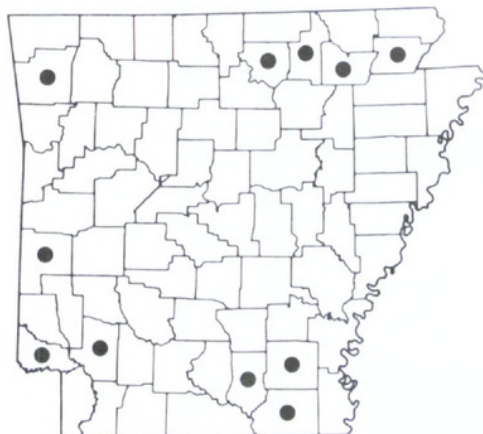
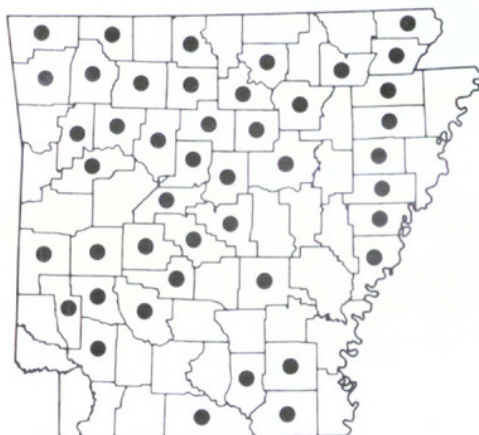
39. *Dennstaedtia punctilobula*

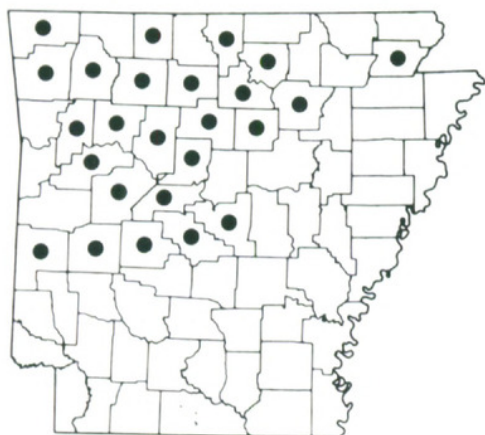


40a. *Pteridium aquilinum*
var. *latiusculum*



40b. *Pteridium aquilinum*
var. *pseudocaudatum*

41. *Thelypteris kunthii*42. *Thelypteris noveboracensis*43a. *Thelypteris palustris*
var. *haleana*43b. *Thelypteris palustris*
var. *pubescens*44. *Thelypteris torresiana*45. *Phegopteris hexagonoptera*



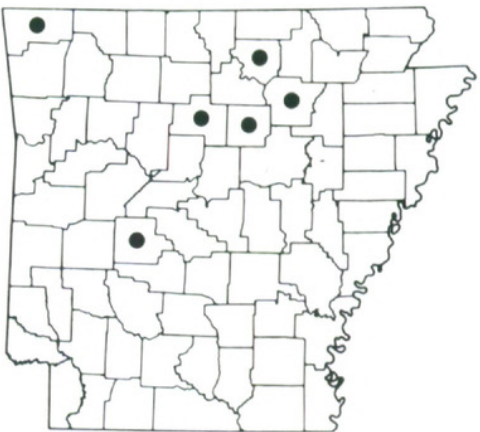
46. *Asplenium bradleyi*



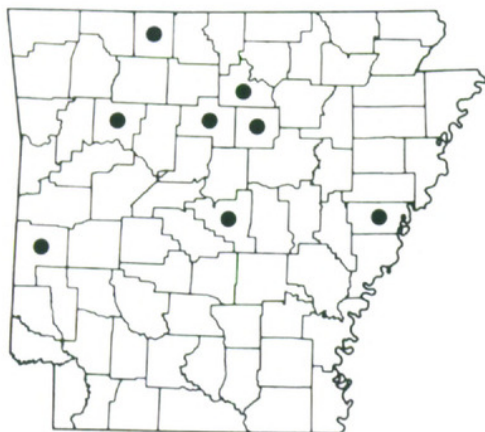
47. *Asplenium X ebenoides*



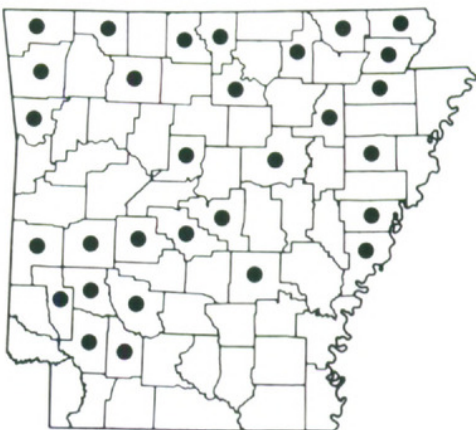
48. *Asplenium X kentuckiense*



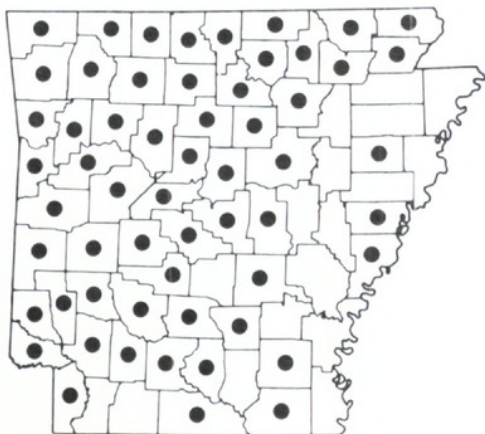
49. *Asplenium pinnatifidum*



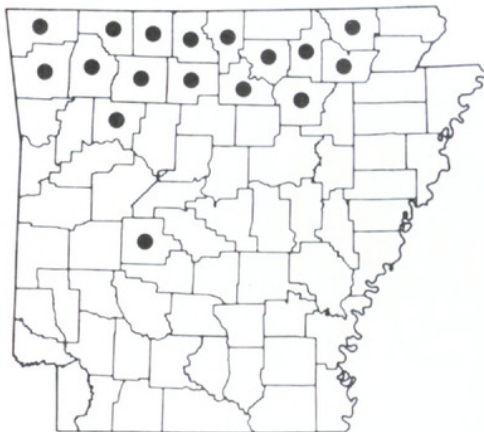
50a. *Asplenium platyneuron*
var. *bacculum-rubrum*



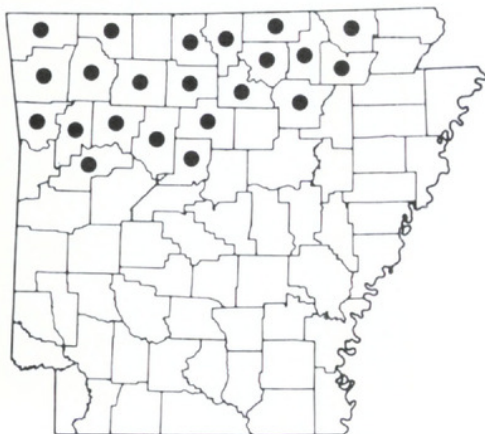
50b. *Asplenium platyneuron*
var. *incisum*



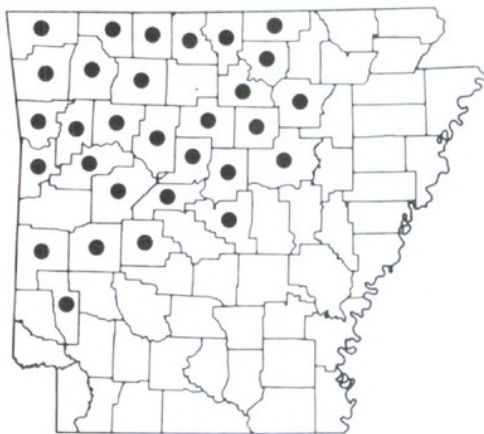
50c. *Asplenium platyneuron*
var. *platyneuron*



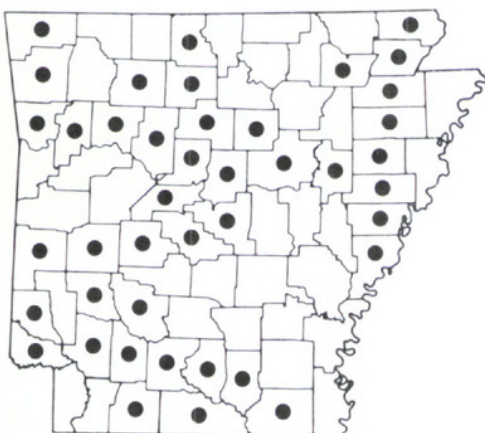
51. *Asplenium resiliens*



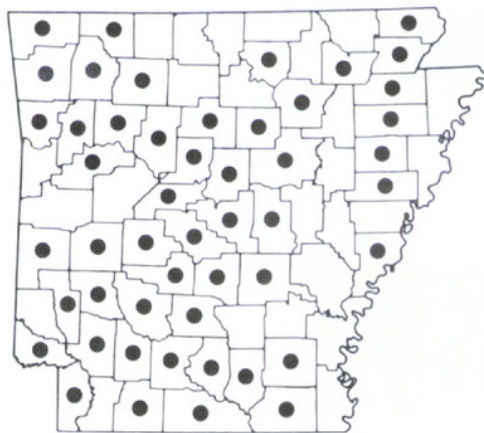
52. *Asplenium rhizophyllum*



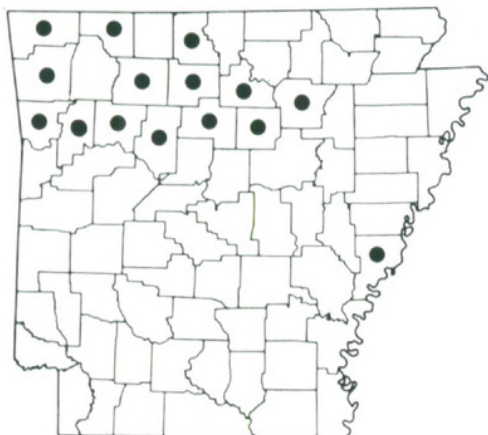
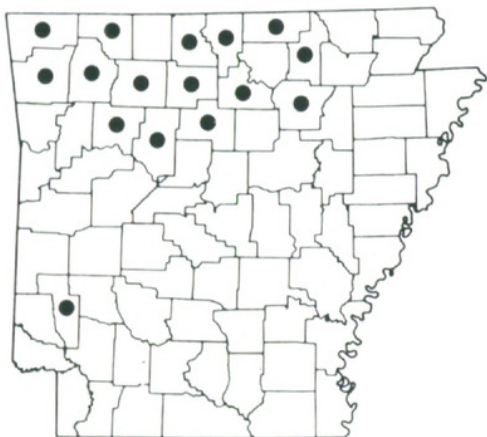
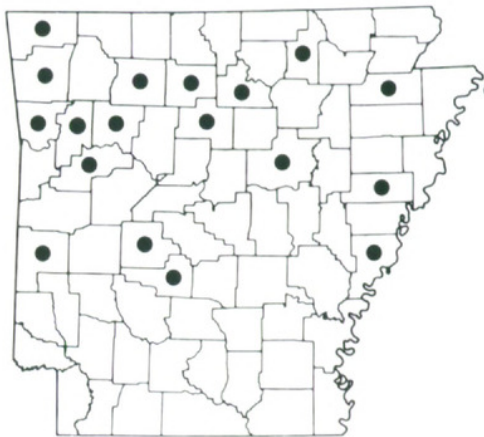
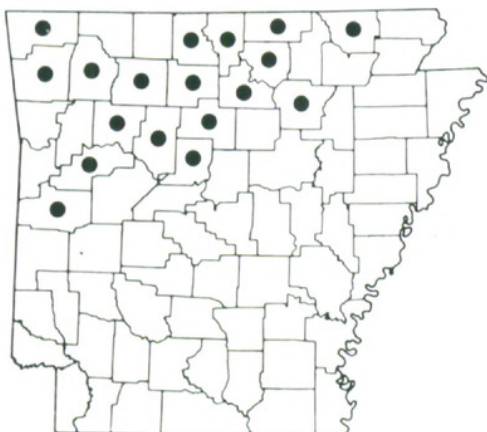
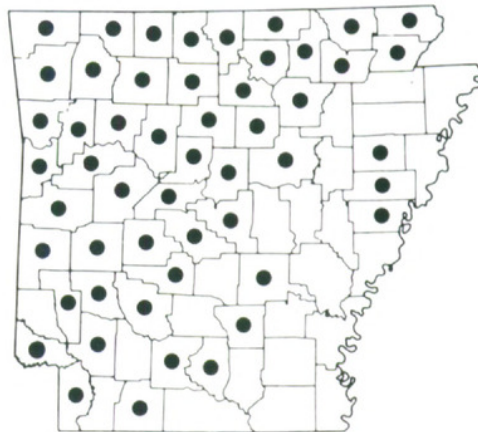
53. *Asplenium trichomanes*



54. *Onoclea sensibilis*

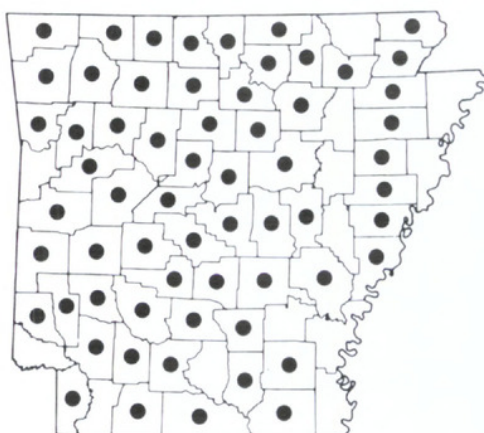


55. *Athyrium filix-femina*
subsp. *asplenioides*

56. *Athyrium pycnocarpon*57. *Athyrium thelypteroides*58. *Cystopteris bulbifera*59. *Cystopteris protrusa*60. *Cystopteris tennesseensis*61. *Woodsia obtusa*



62. *Woodsia scopulina*
var. *appalachiana*



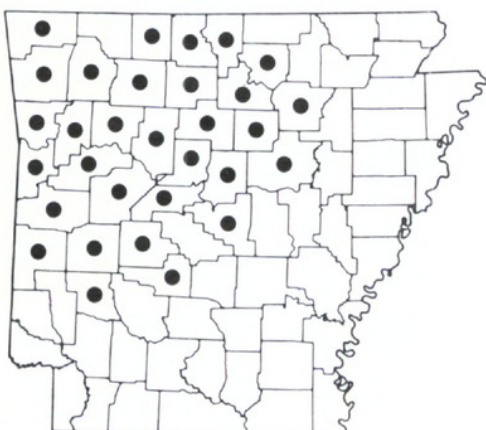
63. *Polystichum acrostichoides*



64. *Dryopteris celsa*



65. *Dryopteris* X *leedsii*



66. *Dryopteris marginalis*



67. *Dryopteris spinulosa*

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