

# SOME STUDIES OF TENNESSEE FERNS

JESSE M. SHAVER

*George Peabody College for Teachers, Nashville, Tennessee*

## FERN DISTRIBUTION IN TENNESSEE

The distribution of ferns in Tennessee has already been given on maps, usually a separate outline map for each fern. These maps give distribution by counties and indicate whether the collections were by the author or by others. It still remains to summarize the data on which the maps were based and to extend the data, in some instances, at least, to include collections made since that time. To save space, only one record for each fern per county is given and the word "Shaver" is omitted before the specimen number; thus no. 2335 should be read *Shaver* no. 2335. The specimens are in the herbarium of Jesse M. Shaver or in the herbarium of the University of Tennessee, unless otherwise indicated. The arrangement of the ferns is that used by the author previously in his studies of ferns. Counties are arranged alphabetically. All specimens have been examined by the author except those preceded by an asterisk.

### FILMY-FERN

#### *Trichomanes Petersii* A. Gray

BLOUNT Co.: Tremont, no. 2342; \*SEVIER Co.: Sharp (1937).

### BRISTLE-FERN

#### *Trichomanes Boschianum* Sturm

FRANKLIN Co.: Natural Bridge, Sewanee, no. 9839; \*MONROE Co.: Calderwood Lake (Zuck, 1939); \*SCOTT Co.: No Business Cr., *Sharp, Shanks, and E. Clebsch* no. 3971.

### COMMON POLYPODY

#### *Polypodium virginianum* L.

ANDERSON Co.: Briceville, no. 10040; BLEDSOE Co.: Waldens Ridge, no. 4035; BLOUNT Co.: Little River, 1850; CAMPBELL Co.: near Scott Co., rd. 63, no. 8429; \*CANNON Co.: Short Mtn., *Svenson* no. 9270; CARTER Co.: Roan Mtn., no. 1823; CLAIBORNE Co.: Cumberland Gap, *Frick*, Sept. 26, 1943 (*Lincoln Mem. Univ.*); COCKE Co.: Low Gap, *Cosby* (Fig. 13, *Jour. Tenn. Acad. Sci.*, 18(3): 222, 1943); CUMBERLAND Co.: Ozone, no. 1830; FENTRESS Co.: Clear Cr., rd. 28, no. 1869; FRANKLIN Co.: Sewanee, no. 4138; GRAINGER Co.: Clinch Mtn., no. 10109; GREENE Co.: Greystone, mtn. side, no. 10106; GRUNDY Co.: Altamount, no. 9723; HAMILTON Co.: N. side, Suck Cr., no. 1896; JOHNSON Co.: Backbone Recreational Area, no. 10387; \*KNOX Co.: Bird Preserve, *W. L. Galyon* (Anderson, 1931); MARION Co.: E. of Monteagle, no. 1866; MONROE Co.: Bald River Falls, no. 1826; MORGAN Co.: river bank, rd. 52, no. 4076; OVERTON Co.: NW. of Clarkrange, no. 10850; PUTNAM Co.: Stamps Hollow, Monterey, no. 1820; RHEA Co.: Roaring Fork, Graysville, no. 10634; ROANE Co.: Kingston, no. 1859; SCOTT Co.: by rd. 63, W. of Campbell Co., no. 8438; SEVIER Co.: Cherokee Orchards, Gatlinburg, no. 1834; \*SULLIVAN Co.: Holston High Knob, *Herman O'Dell*, (*E. Tenn. State Col.*); VAN BUREN Co.: Cane Cr., Fall Creek State Park, no. 9644; UNICOI Co.: near Erwin, no. 1849; UNION Co.: by rd. 61, E. of rd. 33, no. 8419; WARREN Co.: Pinnacle Mtn., Irving College, no. 9711; WHITE Co.: Bon Air, no. 8245.

## RESURRECTION FERN

**Polypodium polypodioides (L.) Watt var. Michauxianum Weatherby**

ANDERSON Co.: S. of Clinton, Clinch River, no. 9943; BEDFORD Co.: Duck River bluffs, Shelbyville, no. 9836; BENTON Co.: oak tree, Tenn. River, U.S. 70, no. 10946; BLEDSOE Co.: W. of Pikeville, rd. 30, mtn. side, no. 7937; BLOUNT Co.: bluffs, Jones Bend, Tenn. River, No. 10640; BRADLEY Co.: Henegars Bluff, E. of Charleston, no. 10150; CAMPBELL Co.: rd. 63, 11 mi. E. of Scott Co., no. 8427; CANNON Co.: Spout Springs, Gassaway, no. 9198; \*CARROLL Co.: on *Quercus phellos*, Bruceton, *Svenson* no. 437; CARTER Co.: Hampton, no. 1925; CHEATHAM Co.: on white elm, Turnbull Cr., W. of Kingston Sprgs., no. 4490; CHESTER Co.: on tree, rd. 22, N. of Jacks Cr., no. 4537; CLAIBORNE Co.: Frick (1946); CLAY Co.: specimen lost; COCKE Co.: French Broad River, Newport, no. 1937; COFFEE Co.: Old Stone Fort, Manchester, no. 4174; CROCKETT Co.: on white elm, rd. 88, near Lauderdale Co., no. 4523; DAVIDSON Co.: Little Marrowbone Cr., no. 1904; DECATUR Co.: on black haw, W. of Parsons, no. 4532; DEKALB Co.: on white oak, Caney Fork River, rd. 26, no. 4264; DICKSON Co.: Jones Cr., rd. 47, no. 8055; DYER Co.: oak tree, swamp E. of Tatumville, no. 10951; FAYETTE Co.: on white elm, U.S. 70, 3.8 mi. S. of Tipton Co., no. 4527; FENTRESS Co.: on white oak, rd. 28, 2.1 mi. SE. of Pickett Co., no. 5507; FRANKLIN Co.: Morgan Steep, Sewanee, no. 1920; GIBSON Co.: post oak, rd. from Atwood to Cades, no. 10948; GILES Co.: on osage orange tree, E. of Elkton, no. 7984; GRAINGER Co.: Buffalo Sprgs., *Morrison* no. 60; GRUNDY Co.: Beersheba Sprgs., no. 1960; HAMILTON Co.: E. side Suck Cr., no. 10307; HARDEMAN Co.: on white elm, U.S. 64, 5.5 mi. E. of Fayette Co., no. 4512; HARDIN Co.: tree by rd. 22, near Crump, no. 10945; HAYWOOD Co.: on basket oak, Hatchie River, U.S. 70, no. 10944; HENDERSON Co.: on post oak, rd. 22, 5.6 mi. NE. of Chester Co., no. 4540; HENRY Co.: on tree, swamp, NE. of Paris, rd. U.S. 79, no. 10947; HICKMAN Co.: river bluffs, Centerville, no. 1971; \*HOUSTON Co.: Erin, *E. J. Palmer* (Mo. Bot. Gar.); HUMPHREYS Co.: Buffalo River, no. 4425; JACKSON Co.: Whiteley, rd. 85, no. 5484; JEFFERSON Co.: river bluffs, near Knox Co., U.S. 11E, no. 10369; \*KNOX Co.: Knoxville, *Ruth*, May, 1898 (Mo. Bot. Gar.); \*LAKE Co.: W. side, Reelfoot Lake (given as Obion Co.), *Steyermark* (Mo. Bot. Gar.); LAUDERDALE Co.: on white oak, rd. 51, 8 mi. N. of Ripley, no. 10949; LAWRENCE Co.: on winged elm, U.S. 64, 0.7 mi. E. of Wayne Co., no. 4391; LEWIS Co.: on leaning tulip tree, 1.8 mi. S. of rd. 20, on Napier rd., no. 8006; LINCOLN Co.: rd. between Taft and Skinnem, no. 8205; LOUDON Co.: by rd. 72, E. of Roane Co., no. 8371; McMINN Co.: rd. 39, 6 mi. E. of Athens, no. 8346; \*McNAIRY Co.: on post oak, 1.5 mi. N. of Leapwood, *J. R. Endsley* (Freed-Hardeman Col.); MACON Co.: on white elm, 3.7 mi. N. of Trousdale Co., rd. 10, no. 5539; MADISON Co.: on white elm, U.S. 70, near Haywood Co., no. 10943; MARION Co.: down Tenn. River from Ladds Station, no. 1958; MARSHALL Co.: E. of Cornersville, no. 4339; MAURY Co.: near Rockdale, no. 8314; MEIGS Co.: Breedenton, no. 9932; MOORE Co.: Lynchburg, no. 4322; MONROE Co.: Starr Mtn., no. 1947; MONTGOMERY Co.: on bur oak, Porters Bluff, Clarksville (Col. by J. L. Majors), no. 4488; \*MORGAN Co.: Rugby, *Alice S. Percival* (Chicago Nat. Hist. Mus.); OBION Co.: Walnut Log, no. 1963; OVERTON Co.: mtn. E. of Livingston, no. 8390; PERRY Co.: on white elm, Buffalo River, 1 mi. downstream from bridge, rd. 13, Flat Woods, no. 4399; PICKETT Co.: Wolf River, N. of Byrdstown, no. 5505; POLK Co.: Hiwassee River, U. S. 411, no. 8348; PUTNAM Co.: mtn. side, Bee Rock, Monterey, no. 1991; RHEA Co.: mtn. side, Spring City, no. 8367; ROANE Co.: White River near Glen Alice, no. 9696; ROBERTSON Co.: Paines Cave, Cross Plains, no. 7979; RUTHERFORD Co.: cedar glades, S. of Murfreesboro, U.S. 241, no. 4334; SEQUATCHIE Co.: mtn. side, rd. 8, Waldens Ridge, no. 9764; SEVIER Co.: tree, Henderson Sprgs., no. 1907; SHELBY Co.: on post oak, Shelby Drive, 4 mi. S. of Arlington, no. 4525; SMITH Co.: bluffs, Round Lick Cr., Rome, no. 8380; STEWART Co.: near Carlisle, no. 7963; \*SULLIVAN Co.: Worleys Cave, Bluff City, *Herman O'Dell* (E. Tenn. State Col.); SUMNER Co.: on white elm, Drakes Cr., Worsham, no. 4297; TIPTON Co.: on white elm, U.S. 70, 2.4 mi. SW. of Haywood Co., no. 4526; TROUSDALE Co.: on white elm, Goose Cr., rd. 10, no. 5526; VAN BUREN Co.: 3 mi. E. of

Spencer, rd. 30, no. 7941; UNICOI Co.: Nolichucky River, Unaka Sprgs., no. 1943; UNION Co.: NW. of Luttrell, 1.6 mi., no. 8413; WARREN Co.: Collins River bluff, rd. 56, near Grundy Co., no. 8024; WAYNE Co.: on white elm, 6.5 mi. W. of Waynesboro, U.S. 64, no. 7994; WEAKLEY Co.: on white oak, 2.7 mi. N, rd. 124, on rd. to Gleason, no. 10950; WHITE Co.: Gulf, Dotson, no. 1914; WILLIAMSON Co.: Brush Cr. bluffs, N. of rd. 100, no. 4470; WILSON Co.: Sugg Cr., Stewart Ferry rd., no. 4344.

### EASTERN BRACKEN

#### *Pteridium aquilinum* (L.) Kuhn var. *latiusculum* (Desv.) Underwood ex Heller

BENTON Co.: Lipes Switch, U.S. 70, near Carroll Co., no. 1738; BLEDSOE Co.: Waldens Ridge, near Rhea Co., rd. 30, no. 4040; BLOUNT Co.: Kinzel Sprgs., R.R. bank, no. 1737; BRADLEY Co.: 7.5 mi. E. of Cleveland, no. 10010; CARROLL Co.: W. of Huntingdon, 4.5 mi., U.S. 70, no. 9883; CHEATHAM Co.: near White Bluff, no. 2007; \*CHESTER Co.: Henderson, *Bain* (Tryon, 1941); CLAIBORNE Co.: Little Pinnacle Mtn., Tiprell (Col. T. A. Frick, Lincoln Mem. Univ.); COCKE Co.: French Broad River, N. of Newport, 1.6 mi., no. 1724; CUMBERLAND Co.: Caney Fork River, E. of Pleasant Hill, no. 1783; DAVIDSON Co.: Little Marrowbone Cr., no. 2903; DECATUR Co.: W. side, Tenn. River, rd. 100, no. 1786; DEKALB Co.: Caney Fork River, rd. 26, no. 7830; DICKSON Co.: rd. 47, N. of White Bluff, no. 8231; FAYETTE Co.: by U.S. 64, 2 mi. W. of Hardeman Co., no. 9135; FENTRESS Co.: 4.3 mi. S. of Jamestown, rd. 28, no. 2004; FRANKLIN Co.: Morgan Steep, Sewanee, no. 4136; GRAINGER Co.: Buffalo Sprgs., *Morrison and Brown* no. 77; GRUNDY Co.: 2.5 mi. S. of Palmer, rd. 108, no. 2001; HARDEMAN Co.: Chickasaw Forest, rd. 100, no. 9174; HARDIN Co.: W. of Olive Hill, 0.8 mi., U.S. 64, no. 8301; HAWKINS Co.: by rd. 66, W. of Rogersville, no. 9713; HENRY Co.: 11.5 mi. SE. of Paris, rd. 69, no. 9147; HOUSTON Co.: rd. 49, W. of Dickson Co., no. 9983; HUMPHREYS Co.: specimen misplaced; JACKSON Co.: Cummins Falls, no. 8108; JOHNSON Co.: Holston Mtns., W. of Shady Valley, no. 9758; KNOX Co.: near Sevier Co., rd. 71, no. 10068; LAWRENCE Co.: 3.5 mi. S. of Maury Co., U.S. 43, no. 8327; LOUDON Co.: Marble Bluff, rd. 72, near Roane Co., no. 10133; McMINN Co.: Chilhowee Sprgs., near Etowah, Starr Mtn., no. 10154; MCNAIRY Co.: by U.S. 64, 6.4 mi. W. of Adamsville, no. 10244; MARION Co.: Martin Sprgs., U.S. 41, no. 8255; MAURY Co.: hill, SW. of Rockdale, U.S. 43, no. 8280; MONROE Co.: Tellico River, near Tellico Plains, no. 1736; MONTGOMERY Co.: off rd. 12, 3.9 mi. from U.S. 41A, no. 8146; MORGAN Co.: E. of Rugby, rd. 52, no. 4079; PICKETT Co.: Hazard Cave, Pickett State Forest, no. 9689; PUTNAM Co.: 1 mi. E. of Monterey, no. 1754; RHEA Co.: rd. 30, 1.3 mi. E. of Bledsoe Co., no. 4123; ROANE Co.: E. of Cumberland Co., U.S. 70, no. 4115; ROBERTSON Co.: South Fork, Sycamore Cr., W. of Greenbrier, no. 4308; SCOTT Co.: rd. 52, 2.7 mi. W. of Rugby Road, no. 4067; SEQUATCHIE Co.: Waldens Ridge, 2 mi. E. of western escarpment, rd. 113, no. 4148; SEVIER Co.: above falls, Cherokee Orchard trail, Mt. LeConte, no. 1734; STEWART Co.: Standing Rock Cr., 1 mi. E. of Tenn. River, no. 8045; SULLIVAN Co.: Holston Mtns., no. 2008; VAN BUREN Co.: above falls, Fall Creek State Park, no. 4022; UNICOI Co.: Unaka Sprgs., no. 1732; WARREN Co.: mtn. side, across Collins River from Irving College, no. 8242; WHITE Co.: 1 mi. W. of De Rossett, U.S. 70S, no. 4107; WILSON Co.: cedar glades, E. of Noneville, N. of Mt. Juliet, no. 8197.

### SOUTHERN BRACKEN

#### *Pteridium aquilinum* (L.) Kuhn var. *pseudocaudatum* (Clute) Heller

BENTON Co.: Lipes Switch, near Carroll Co., U.S. 70, no. 2884; CARROLL Co.: 11 mi. E. of Madison Co., U.S. 70, no. 2916; CHESTER Co.: Henderson, no. 1789; COFFEE Co.: oak barrens, *H. K. Svenson* no. 10581; DAVIDSON Co.: Little Marrowbone Cr., no. 1723; GRAINGER Co.: E. side of Clinch Mtn., U.S. 25E, no. 9695; \*HAMILTON Co.: Lookout Mtn., *Eggleston* (Tryon, 1941); HARDEMAN Co.: by rd. 100, E. of rd. 18, no. 9895; HENDERSON Co.: 3.3 mi.

E. of Lexington, rd. 20, no. 9187A; HENRY Co.: 6.4 mi. SE. of Paris, rd. 69, no. 9657; HOUSTON Co.: 2 mi. SE. of Stewart Co., rd. 49, no. 8043; LEWIS Co.: Napier rd., S. of rd. 20, no. 9875; MARION Co.: mtn. side, E. of Monteagle, no. 1744; McNAIRY Co.: near Selmer, U.S. 64, no. 9918; MONROE Co.: 3.3 mi. up Tellico River from entrance Cherokee Forest, no. 1735; POLK Co.: Ocoee River above Parksville, no. 2000; PUTNAM Co.: near Monterey, no. 1752; SEVIER Co.: Laurel Cr. near Bate Mtn., *A. J. Sharp* no. S186; WAYNE Co.: 14.7 mi. W. of Waynesboro, U. S. 64.

### AMERICAN MAIDENHAIR *Adiantum pedatum* L.

ANDERSON Co.: S. of Briceville, rd. 116, no. 10039; BEDFORD Co.: 0.5 mi. SW. of Sinking Cr., Duck River, no. 10453; BENTON Co.: 1.3 mi. E. of Holladay, rd. 69, no. 9145; BLEDSOE Co.: W. side of Waldens Ridge, rd. 30, no. 4038; BLOUNT Co.: along Little River, rd. 73, 2.4 mi. W. of Sevier Co., no. 1664; BRADLEY Co.: Henegars Bluff, E. of Charleston, no. 10149; CAMPBELL Co.: N. of Pioneer, no. 10664; CANNON Co.: Short Mtn., rim nearby, no. 9195; CARROLL Co.: 4.5 mi. W. of Huntingdon, U.S. 70, no. 9886; CARTER Co.: 5 mi. S. of Roan Mtn. (village), no. 1647; CHEATHAM Co.: Turnbull Cr., W. of Kingston Springs, no. 1696; \*CHESTER Co.: *J. R. Endsley* (1935); \*CLAIBORNE Co.: 3 mi. S. of Harrogate, *T. A. Frick* (Lincoln Mem. Univ.); CLAY Co.: 5 mi. E. of Macon Co., rd. 52, no. 8127; COCKE Co.: French Broad River, 16 mi. E. of Newport, U.S. 70, no. 1655; COFFEE Co.: Old Stone Fort, Manchester, no. 4180; CUMBERLAND Co.: below falls, Ozone, U.S. 70, no. 1653; DAVIDSON Co.: W. of Mt. View School, U.S. 70S, no. 1634; DECATUR Co.: Tenn. River, rd. 100, no. 1689; DEKALB Co.: W. of Caney Fork River, rd. 26, no. 7833; DICKSON Co.: Beaverdam Cr., 5 mi. S. of White Bluff, no. 4485; DYER Co.: 6.2 mi. S. of Obion Co., rd. 78; no. 10346; FAYETTE Co.: 2 mi. W. of Hardeman Co., U.S. 64, no. 9137; FENTRESS Co.: 1.9 mi. W. of Jamestown, rd. 52, no. 4091; FRANKLIN Co.: Morgan Steep, Sewanee, no. 1641; GIBSON Co.: NE. of Trenton, rd. 54, no. 9652; GILES Co.: W. of Campbellsville, no. 10171; GRAINGER Co.: W. side of Clinch Mtn., U.S. 25E, no. 9703; GREENE Co.: Nolichucky River, E. of Tusculum, rd. 107, no. 10363; GRUNDY Co.: bluffs W. of Monteagle, no. 7916; HAMBLEN Co.: near Cherokee Park, no. 10918; HAMILTON Co.: N. of Ooltewah, U.S. 11, no. 10696; HANCOCK Co.: Lee Valley, rd. 66, no. 9721; HAWKINS Co.: E. side of Clinch Mtn., foot, W. of Mooreburg, no. 10859; HARDEMAN Co.: Chickasaw Forest, rd. 100, no. 9173; HARDIN Co.: SE. of Savannah, rd. 69, no. 9916; HENRY Co.: SE. of Paris, rd. 69, no. 9665; HICKMAN Co.: 4.4 mi. S. of rd. 100, turnoff is 5.1 mi. W. of Williamson Co., no. 9157; \*HOUSTON Co.: Erin, *Palmer* no. 17607 (Anderson, 1931); HUMPHREYS Co.: W. of Waverly, U.S. 70, no. 1717; JEFFERSON Co.: bluffs, Holston River, U.S. 11E, no. 10685; JOHNSON Co.: W. side of Iron Mtn., U.S. 421, no. 10082; KNOX Co.: Clinch River, near Loudon Co., no. 10495; LAUDERDALE Co.: by U.S. 51, 15.9 mi. N. of Tipton Co., no. 10253; LAWRENCE Co.: 3.5 mi. S. of Maury Co., U.S. 43, no. 8324; LEWIS Co.: Napier rd., S. of rd. 20, no. 9873; LINCOLN Co.: near Kelso, no. 1639; LOUDON Co.: by rd. 72, E. of Roane Co., no. 10135; McMINN Co.: Chilhowee Spring, Starr Mtn., near Etowah, no. 10155; McNAIRY Co.: 6.4 mi. W. of Adamsville, U.S. 64, no. 10246; MACON Co.: 1 mi. N. of Smith Co., rd. 80, no. 10476; \*MADISON Co.: the reference to the fern occurring here seems to have been lost; MARION Co.: W. side of Waldens ridge, rd. 27, no. 1702; MEIGS Co.: Dry Fork Cr., No Pone Ridge, no. 10159; MOORE Co.: near Bedford Co., rd. 82, no. 7858; MONROE Co.: White Cliff Spring, Starr Mtn., no. 1658; MONTGOMERY Co.: S. of rd. 12, 3.9 mi. W. of U.S. 41A, no. 8149; MORGAN Co.: 8 mi. S. of Sunbright, U.S. 27, no. 4062; OBION Co.: Gladly Cr., no. 1694; OVERTON Co.: Bible Institute grounds, Livingston, no. 7862; PICKETT Co.: S. of Obey River, rd. 42, no. 8094; POLK Co.: Hiwassee Beach, rd. 30, no. 10029; PUTNAM Co.: Stamps Hollow, Monterey, no. 1710; RHEA Co.: near Tenn. River, rd. 30, no. 10586; ROANE Co.: bluff across Clinch River from Kingston, old bridge, no. 1667; ROBERTSON Co.: South Fork, Sycamore Cr., W. of Greenbrier, no. 4312;

SEQUATCHIE Co.: by rd. 8, W. side of Waldens Ridge, no. 9759; SEVIER Co.: Roaring Fork, Gatlinburg, no. 1645; SHELBY Co.: hills W. of U.S. 51, near Millington, no. 9995; SMITH Co.: North Alexandria, *Mrs. A. Courtney*; STEWART Co.: N. of Carlisle, rd. 49, no. 8065; SULLIVAN Co.: E. of Bristol at Holston River, U.S. 421, no. 9751; SUMNER Co.: Tyree Springs, no. 4301; TIPTON Co.: near U.S. 51, 1.7 mi. S. of Brighton, no. 9130; VAN BUREN Co.: 2.5 mi. E. of Spencer, rd. 30, no. 4290; UNICOI Co.: Unaka Spring, no. 1650; UNION Co.: rd. 61, near Anderson Co., no. 10937; WARREN Co.: W. side of Mt. Cardwell, no. 9731; WASHINGTON Co.: Embreeville, no. 9794; WAYNE Co.: SW. corner of Co., rd. 69, no. 9904; WHITE Co.: Lowery Sprg., W. side of Cumberland Plateau, U.S. 70S, no. 1642; WILLIAMSON Co.: by branch rd. from rd. 100 to Ferndale, no. 8191.

### SOUTHERN MAIDENHAIR *Adiantum Capillus-Veneris* L.

CAMPBELL Co.: Ed Faust's place, Cove Cr., *Hesler, Underwood*, and *Sharp* no. 2283; FENTRESS Co.: sprg. near rd. 28, 0.9 mi. SE. of Pickett Co., no. 2098; HAMILTON Co.: near Ga.-Tenn. line, Lookout Mtn., *J. R. Churchill*; MARION Co.: bluff by R.R., 1 mi. down Tenn. River from Ladds Station, no. 1762; OVERTON Co.: spring and waterfall, Zollicoffer Lake, 5 mi. W. of Livingston, rd. 85, no. 4053; RUTHERFORD Co.: Snail Shell Cave, near Rockvale; WARREN Co.: near Great Falls, Canev Fork River, Rock Island; WHITE Co.: watering trough by rd. 84, 1.3 mi. N. of Sparta, no. 1756.

### WOOLLY LIPFERN *Cheilanthes tomentosa* Link

BLED SOE Co.: W. of Pikeville, bluff by rd. 30, no. 4103; BLOUNT Co.: down R. R. from Kinzel Sprgs., no. 1561; CARTER Co.: near Hampton, no. 1555; \*COCKE Co.: French Broad River between Paint Rock and Del Rio, *T. H. Kearney*, no. 976 (N. Y. Bot. Gar.); HAMILTON Co.: E. side of Waldens Ridge, rd. 8, no. 10628; MARION Co.: bluff near mtn. top, W. of Whitwell, rd. 108, no. 7934; MONROE Co.: up Tellico River from Tellico Plains, no. 1566; POLK Co.: 7 mi. E. of dam 1, Ocoee, no. 10007; UNICOI Co.: bluff, Nolichucky River, near Unaka Sprgs., no. 1571.

### HAIRY LIPFERN *Cheilanthes lanosa* (Michx.) D. C. Eaton

BEDFORD Co.: bank, Duck River, W. of Card Cemetery, no. 10451; BLOUNT Co.: down R. R. from Kinzel Sprgs., no. 1598; CANNON Co.: Stones River, near Rutherford Co., no. 4358; CARTER Co.: near Hampton, no. 1601; CHEATHAM Co.: near where Harpeth River enters Cumberland River, no. 1608; \*COCKE Co.: bluffs, French Broad River, between Paint Rock and Del Rio, *T. H. Kearney*, no. 976 (U. S. Nat. Mus.); COFFEE Co.: bluffs, Rutledge Falls, no. 7921; DAVIDSON Co.: Little Marrowbone Cr. area, no. 1620; DECATUR Co.: bluffs, Tenn. River, N. of Kelly Island, 6 mi. from Saltito, *J. R. Endsley* (Freed-Hardeman Col.); DEKALB Co.: cr. bluff near Liberty, no. 1612; DICKSON Co.: S. of White Bluff, no. 4482; FRANKLIN Co.: Sewanee, no. 1595; GRAINGER Co.: Clinch Mtn., *Sharp and Underwood* no. 4179; HAMILTON Co.: bluffs, Lookout Mtn., near Ga.-Tenn. line, *J. R. Churchill*; HAWKINS Co.: bluffs by rd., E. side Clinch Mtn., W. of Mooresburg, no. 10902; HICKMAN Co.: bluffs, Duck River, Centerville, no. 1617; \*HOUSTON Co.: Erin, *E. B. Harger* no. 7853 (Gray Herbarium); HUMPHREYS Co.: Buffalo River bluffs, SW. of Waverly, no. 4439; JACKSON Co.: Cummins Falls, no. 8104; \*JEFFERSON Co.: Dandridge, *W. Faxon* (Anderson, 1931); \*KNOX Co.: cliffs, Tenn. River, *T. H. Kearney* (Chicago Nat. Hist. Mus.); LAWRENCE Co.: bluffs, W. Lawrenceburg, Shoal Cr., no. 7990; LEWIS Co.: by small cr., 3.8 mi. N. of Hohenwald, rd. 48, no. 8015; MARION Co.: escarpment W. of Whitwell, no. 7933; MAURY Co.: bluff by R.R., W. of Rockdale, no. 9922; MONROE Co.: Tellico River, E. of Tellico Plains, no. 1605; MONTGOMERY Co.: bluff,

Cumberland River, New Providence, *R. E. Shanks* no. 2719; PERRY Co.: Buffalo River, Flat Woods, no. 4407; PICKETT Co.: bluff, Wolf River, 2.8 mi. N. of Byrdstown, rd. 42, no. 5506; POLK Co.: 7 mi. E. of dam 1, Ocoee, no. 10008; RHEA Co.: escarpment, W. of Spring City, rd. 68, no. 8366; ROBERTSON Co.: bluff, Sycamore Cr., rd. from Joelton to Springfield, no. 7980; RUTHERFORD Co.: bluff, Stones River, Jefferson Sprgs., no. 9193; SEVIER Co.: bluff, Pittman Center, *Cain and Duncan* no. 96-2; STEWART Co.: small bluff, 6 mi. NW. of Houston Co., rd. 49, no. 7965; VAN BUREN Co.: escarpment, W. of Spencer, rd. 30, no. 7948; UNICOI Co.: bluff by rd. to Unaka Sprgs., no. 1596; WAYNE Co.: by 49th Cr., 2 mi. N. of U. S. 64, no. 10527; WHITE Co.: 6.5 mi. N. of Sparta, rd. 84, no. 7841; WILLIAMSON Co.: Brush Cr., N. of rd. 100, no. 4462; WILSON Co.: Spring Cr., NE. of Lebanon, U.S. 70, no. 7881.

### ALABAMA LIPFERN

#### *Cheilanthes alabamensis* (Buckley) Kunze

ANDERSON Co.: hillside, near Coal Creek, *H. M. Jennison* no. 218; BLOUNT Co.: Sheep Pen Bluff, Tenn. River near Louisville, no. 10636; CLAIBORNE Co.: Clinch River bluffs (Frick, 1946); DAVIDSON Co.: rocks, cedar pasture, Knapp Farm, Mill Cr., E. of Nashville, no. 1589; DECATUR Co.: 6 mi. N. of Saltillo, Tenn. River, N. of Kelly Island, *J. R. Endsley*; DE KALB Co.: bluffs by cr. near Liberty, no. 1586; \*FRANKLIN Co.: Sherwood, *H. Eggert* (U. S. Nat. Mus.); GRAINGER Co.: Holston River towards Morristown, *A. J. Sharp* no. 4571; \*HAMILTON Co.: Lookout Mtn., col. unknown (Mo. Bot. Gar.); \*HAWKINS Co.: Holston River, rd. 70, *W. A. Knight* no. 4308; HARDIN Co.: Tenn. River below ferry, Saltillo, *J. R. Endsley* (Freed-Hardeman Col.); HICKMAN Co.: bluffs, Duck River, Centerville, no. 1593; HUMPHREYS Co.: Duck River, Williamsport, no. 4440; JACKSON Co.: 5 mi. up Cumberland River from bridge at Gainesboro, no. 5483; \*KNOX Co.: rocks, Knoxville, *A. Ruth* no. 9 (N. Y. Bot. Gar.); LAWRENCE Co.: bluffs, W. Lawrenceburg, no. 7991; MARION Co.: Battle Cr., U.S. 41, *Massey, Underwood, and Sharp* no. 2531; MAURY Co.: Buffalo River, W. of Bakerville, no. 4387; MONROE Co.: Sinkhole Cr., 4 mi. N. of Tellico Plains, no. 1579; \*MONTGOMERY Co.: bluff, Cumberland River, near New Providence, *R. E. Shanks* no. 2718 (Austin Peay State Col.); POLK Co.: Hiwassee River, E. of fork with Ocoee River, no. 10646; \*ROANE Co.: Rockwood, *C. G. Lloyd* (Chicago Nat. Hist. Mus.); RUTHERFORD Co.: Overall Cr., U. S. 70S, no. 9192; \*SEVIER Co.: rocks, *A. Ruth* (Univ. of Minn.); SMITH Co.: Johnnie Caplenor's farm, Rome, no. 10201; SULLIVAN Co.: bluff, Bluff City, *HMJ-AJS-JKU* no. 797; WASHINGTON Co.: cliffs, Nolichucky River, *W. A. Knight*.

### PURPLE CLIFFBRAKE

#### *Pellaea atropurpurea* (L.) Link

ANDERSON Co.: 1.5 mi. S. of Clinton, by Clinch River, no. 9945; BEDFORD Co.: Duck River, E. of Shelbyville, U.S. 41A, no. 9834; BLEDSOE Co.: W. side of Waldens Ridge, Low Gap Road, no. 9687; BLOUNT Co.: old quarry, Calderwood, no. 10700; BRADLEY Co.: Henegars Bluff, E. of Charleston, no. 10152; CAMPBELL Co.: Cedar Cr., *Sharp, Hesler, and Underwood* no. 2280; CANNON Co.: bluffs, Stones River, 3 mi. E. of Rutherford Co., U.S. 70S, no. 4356; CARTER Co.: 9.2 mi. from Hampton, rd. 67, no. 10377; CHEATHAM Co.: Harpeth River bluffs, N. of White Bluff 10? mi., no. 1478; CLAIBORNE Co.: W. side of Clinch River, U. S. 25E., no. 10647; CLAY Co.: specimen lost; COCKE Co.: by French Broad River N. of Newport, no. 1445; COFFEE Co.: Rutledge Falls, no. 7922; CUMBERLAND Co.: bluffs, Ozone, U. S. 70, no. 1464; DAVIDSON Co.: R.R. bank near Harding Station, W. of Donelson, no. 1492; DECATUR Co.: Beech Cr., rd. 100, no. 9858; DE KALB Co.: bluff by cr. near Liberty, no. 1484; DICKSON Co.: Jones Cr., 5 mi. S. of Charlotte, rd. 47, no. 8048; FENTRESS Co.: 0.9 mi. E. of Pickett Co., rd. 28, no. 8097; FRANKLIN Co.: mtn. side, Cowan, no. 1436; GILES Co.: Richland Cr., U.S. 31, 6.1 mi. S. of Maury Co., no. 8210; GRAINGER Co.: by U.S. 25E. near Hamblen Co., no. 10122; GRUNDY Co.: W. side of mtn., near Monteagle, no. 4132; HAMBLEN Co.: bluff, Holston River, U.S. 25E, no. 1442; HAMILTON Co.: Falling Water Cr., near Red Bank, no.

1472; HANCOCK Co.: S. of Kyles Ford, rd. 70, no. 9730; HICKMAN Co.: bluffs, Duck River, Centerville, no. 1497; HOUSTON Co.: N. of Jewell Cave, no. 3001; HUMPHREYS Co.: rocks, roadside, 3.5 mi. W. of Waverly, U.S. 70, no. 4434; JACKSON Co.: W. of Gainesboro, across bridge, no. 5482; JEFFERSON Co.: near Sevier Co., rd. 35, no. 9938; \*JOHNSON Co.: July 8, 1880, *J. D. Smith* (Anderson, 1931); KNOX Co.: bluff, Clinch River, Gallaghers Ferry, near Loudon Co., no. 10489; LAWRENCE Co.: bluff, Shoal Cr., W. Lawrenceburg, no. 7989; LEWIS Co.: bluff, stream, rd. 48, 3.8 mi. N. of Hohenwald, no. 8012; LINCOLN Co.: Bunn Falls, near Taft, rd. 110, no. 1450; LOUDON Co.: 0.4 mi. E. of Roane Co., rd. 72, no. 8373; McMINN Co.: quarry by rd. 30, E. of Meigs Co., no. 8359; MACON Co.: Long Hungry Cr., rd. 52, no. 9691; MARION Co.: bluffs by Tenn. River, S. of Ladds Station, no. 1475; MARSHALL Co.: cedar glade, NE. of Chapel Hill, 7981; MAURY Co.: rd. 99, NW. corner of Co., no. 4385; MEIGS Co.: rd. 58, 8.6 mi. N. of Decatur, no. 8358; MOORE Co.: near rd. 82 and Bedford Co., no. 8018; MONROE Co.: Sinkhole Cr., near Tellico Plains, no. 1460; MONTGOMERY Co.: bluff by Cumberland River, Gholson, no. 8142; OVERTON Co.: quarry, Roaring River, rd. 42, no. 8387; PERRY Co.: rd. 13, 15 mi. S. of Humphreys Co., no. 4451; PICKETT Co.: specimen lost; POLK Co.: Hiwassee River, E. of fork with Ocoee River, no. 10645; PUTNAM Co.: pigeon roost, rd. 24, Cookeville, no. 1510; RHEA Co.: 3 mi. N. of rd. 30 at Washington, no. 10586; ROANE Co.: Harriman bluffs, *J. K. U.* and *A. J. S.* no. 2052; ROBERTSON Co.: Paines cave, near Cross Plains, no. 7975; RUTHERFORD Co.: bank, Overall Cr., U. S. 70S, no. 7928; SEQUATCHIE Co.: foot of mtn., rd. 28, no. 8335; SEVIER Co.: Henderson Sprgs., no. 1443; SMITH Co.: Johnny Caplenor's farm, Round Lick, U. S. 70, no. 8382; STEWART Co.: Standingstone Cr., near Tenn. River, no. 8042; \*SULLIVAN Co.: Bristol, *Biltmore Herbarium* no. 7551 (U. S. Nat. Mus.); SUMNER Co.: top of rim, rd. 109 between Gallatin and Portland, no. 9813; TROUSDALE Co.: cedar glade, rd. 10, 3.2 mi. N. of Wilson Co., no. 8136; VAN BUREN Co.: E. of Rockey River, rd. 30, no. 4376; UNICOI Co.: Nolichucky River near Erwin, *TGH, JKU, and AIS* no. 3180; UNION Co.: 1.6 mi. NW. Luttrell, no. 8412; WARREN Co.: side of Pinnacle Mtn., Irving College, no. 9717; WAYNE Co.: 6.5 mi. W. of Waynesboro, U. S. 64, no. 7997; WHITE Co.: Caney Fork gulf, Dodson, no. 1453; WILLIAMSON Co.: Brush Cr., NW. of rd. 100, no. 4460; WILSON Co.: Noneville, no. 10197.

**SMOOTH CLIFFBRAKE**  
***Pellaea glabella* Mett. ex Kuhn**

DE KALB Co.: bluff, Caney Fork River, rd. 56, no. 9641; HAMBLLEN Co.: bluff, Holston River, U. S. 25W, no. 1512; KNOX Co.: Maxeys Bluff, Tenn. River, *J. H. Dean* and *A. J. Sharp* no. 4578; MARION Co.: sheer limestone bluff, Foster Falls, no. 4161; MEIGS Co.: limestone bluff, Tenn. River, Breedenton, no. 9936; ROANE Co.: bluff across Clinch River from Kingston, Aug. 30, 1935; SMITH Co.: bluffs, Cumberland River, Rome, no. 10200; WARREN Co.: bluff below falls, Rock Island, Sept. 6, 1937.

**VIRGINIA CHAINFERN**  
***Woodwardia virginica* (L.) J. Sm.**

MARION Co.: 1 mi. E. of Grundy Co., rd. 108, no. 1412; \*bog near Jumpoff, E. of Sewanee, *Svenson* no. 8887 (Brooklyn Bot. Gar.); \**Williamson* (1879); SEQUATCHIE Co.: swamp, rd. 111, 12.3 mi. S. of Spencer, no. 10750.

**NETVEIN CHAINFERN**  
***Lorinseria areolata* (L.) Presl**

BLEDSOE Co.: swamp, ¼ mi. W. of Rhea Co., rd. 30, no. 4042; BLOUNT Co.: E. side, Rich Mtn., Cades Cove, no. 10678; CANNON Co.: top of ridge, rd. from Woodbury to Gassaway, no. 9204; CARROLL Co.: near Yuma, E. of rd. 22, no. 9850; CHESTER Co.: Garland bottom, Henderson, no. 1555; CUMBERLAND Co.: Clear Cr., rd. 28, no. 1646; \*DECATUR Co.: lower regions, *J. R. Endsley*.

(To be continued)