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**Additions to the Oklahoma Lichen Flora**

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Previous significant reports on Oklahoma lichens, list about 175 species (Hedrick, 1930; Hale, 1957; Thomson, 1962). Others (Berry 1941; Hale, 1952, 1956, 1956a, 1958; Imshaug, 1951; Thomson, 1950) added a few more, bringing the total reported from Oklahoma to 186 species.

**This report is from the results of research I did at Oklahoma State**

University during 1959 and 1960 in preparation of a thesis, "The Lichens of North Central Oklahoma," (Keck, 1962), and of research done during the summer of 1962 at the Oklahoma University Biological Station on lichens from the surrounding area.<sup>1</sup>

Fifty-two species from Oklahoma, not reported in the above citations, are listed. Those specimens numbered 1082 or less are deposited in the lichen collection of the Botany Department at Oklahoma State University, and those numbered between 1083 and 1772 are deposited in the lichen collection at the Oklahoma University Biological Station, with duplicates of most of these being deposited in my private collection.

**Verrucariaceae:** *Verrucaria nigrescens* Pers., on sandstone, 2 miles northeast of Cleveland, in Osage Co., 36; *Staurothele diffractella* (Nyl.) Tuck., on poorly cemented silty clay, 15 miles east of Kingfisher, Kingfisher Co., 519.

**Dermatocarpaceae:** *Dermatocarpon rufescens* (Ach.) Th. Fr., on soil, 1 mile west of Enville, Love Co., 1352.

**Arthoniaceae:** *Allarthonia caesia* Fw., on persimmon, 5 miles south-east of Oilton, Creek Co., 915; *Arthonia radiata* (Pers.) Ach., on hackberry, 10 miles northeast of Boswell, Choctaw Co., 1425.

**Graphidaceae:** *Opegrapha vulgata* Ach., on redoak, Beaver's Bend State Park, McCurtain Co., 1205.

**Collemaaceae:** *Collema flaccidum* Ach., on moss-covered wood, in Sulphur Canyon, Pushmataha Co., 1696.

**Heppiaceae:** *Heppia hassei* Zahl., on limestone, 6 miles northwest of Renfrow, Grant Co., 1067; *Heppia lutosa* (Ach.) Nyl., on sandy soil in a pasture, 2 miles west of Willis, Marshall Co., 1395.

**Pannariaceae:** *Parmeliella microphylla* (Sw.) Muell. Arg., on sandstone, in Sulphur Canyon, Pushmataha Co., 1694.

**Lecideaceae:** *Lecidea rufonigra* (Tuck.) Nyl., on sandstone, ½ mile southwest of Tuskegee, Creek Co., 1010; *Lecidea tessellina* Tuck., on sandstone, 2 miles east of Cleveland, Osage Co., 10; *Bacidia umbrina* (Ach.) Bausch, on sandstone, 7 miles west of Perry, Noble Co., 586.

**Cladoniaceae:** *Cladonia apodocarpa* Robbins, on shaded soil, 12 miles north of Pawhuska, Osage Co., 1053; *Cladonia coniocraea* (Flk.) Sandst., on decaying wood, 8 miles southeast of Bennington, Bryan Co., 1448; *Cladonia delicata* (Ehrh.) Flk., on decaying wood, Beaver's Bend State Park, McCurtain Co., 1206; *Cladonia robbinsii* Evans, on soil, 2 miles south of Turner Falls, Murray Co., 1553; *Cladonia squamosa* (Scop.) Hoffm., on decaying wood, Beaver's Bend State Park, McCurtain Co., 1209; *Cladonia uncialis* (L.) Web., on shaded soil, 12 miles north of Pawhuska, Osage Co., 1054.

**Acarosporaceae:** *Sarcogyne clavus* (Ram.) Krmph., on sandstone, 2 miles east of Cleveland, Osage Co., 29; *Sarcogyne pruinosa* (Sm.) Kbr., on sandstone, 7 miles east of Fairfax, Osage Co., 725; *Acarospora fuscata* (Nyl.) Arn., on limestone, 5 miles west of Skiatook, Osage Co., 82; *Acarospora smaragdula* (Wh.) Th. Fr., on sandstone, 2 miles east of Cleveland, Osage Co., 40.

**Lecanoraceae:** *Lecanora calcarea* (L.) Smrft., on limestone, 5 miles

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west of Skiatook, Osage Co., 66; *Lecanora dispersa* (Pers.) Rohl., on cement, 3 miles southeast of Hillsdale, Garfield Co., 240; *Lecanora melasna* (Hedl.) Fink., on sandstone, 2 miles east of Cleveland, Osage Co., 38; *Lecanora piniperda* Kbr., on post oak, 3½ miles southwest of Avery, Lincoln Co., 414; *Lecania californica* (Zahl.) Fink., on limestone, 5 miles west of Skiatook, Osage Co., 71; *Lecania perproxima* (Nyl.) Zahl., on sandstone, ½ mile west of Meridian, Logan Co., 1015; *Candelariella xanthostigma* (Pers.) Lett., on cottonwood over *Physcia* sp., 2 miles south of Lamont, Grant Co., 188.

**Parmeliaceae:** *Parmelia haitiensis* Hale, on sandstone, 4 miles northeast of Ripley, Payne Co., 944; *Parmelia tinctorum* Despr., on sandstone, in Sulphur Canyon, Pushmataha Co., 1693; *Cetraria fendleri* (Nyl.) Tuck., on pine, 10 miles north of Broken Bow, McCurtain Co., 1126; *Cetraria juniperina* (L.) Ach., on blackjack, 10 miles north of Broken Bow, McCurtain Co., 1128.

**Usneaceae:** *Ramalina ecklonii* (Spreng.) Mey. & Flot., on elm, 2 miles north of Lake West, Bryan Co., 1370; *Usnea angulata* Ach., on elm, 10 miles northeast of Boswell, Choctaw Co., 1422.

**Caloplacaceae:** *Caloplaca arizonica* Rudolph non Magn., on sandstone, 2 miles north of Barnsdall, Osage Co., 94; *Caloplaca chrysophthalma* Degel., on post oak, 3 miles south of Chandler, Lincoln Co., 389; *Caloplaca decipiens* (Arn.) Jatta, on sandstone, 7 miles west of Perry, Noble Co., 583; *Caloplaca lobulata* (Floerke) Heilb., on sandstone, 2 miles north of Barnsdall, Osage Co., 92.

**Teloschistaceae:** *Teloschistes exilis* (Michx.) Vain., on a dead twig, University of Oklahoma Biological Station, Marshall Co., 1240.

**Buelliaaceae:** *Buellia alboatra* (Hoffm.) Th. Fr., on limestone, 6 miles northwest of Renfrow, Grant Co., 1079; *Buellia novomexicana* B. de Lesd., on sandstone, 2 miles east of Cleveland, Osage Co., 2; *Buellia retrovertens* Tuck., on sandstone 7 miles west of Perry, Noble Co., 581; *Buellia schaeereri* Dnot., on dead wood, ½ mile south of Loyal, Kingfisher Co., 509; *Buellia vilis* Th. Fr., on limestone, 5 miles west of Skiatook, Osage Co., 67.

**Physciaceae:** *Pyxine caesiopruinosa* (Tuck.) Imshaug, on red oak, 5 miles southeast of Oilton, Creek Co., 702; *Physcia halei* Thomson, on sandstone, 8 miles north of Morrison, Pawnee Co., 816; *Physcia subtilis* Degel., on sandstone, 6 miles southeast of Cleveland, Pawnee Co., 647; *Anaptychia ravenelii* (Tuck.) Zahl., on elm, 5½ miles north of Ravia, Johnston Co., 1298.

**Leprariaceae:** *Crocynia membranacea* (Dicks.) Zahl., on post oak, 1 mile north of Coyle, Payne Co., 307; *Lepraria chlorina* Ach., on birch, Osage Hills State Park, Osage Co., 1052.

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