

NOTES ON THE FERNS AND FERN ALLIES OF CUMBERLAND COUNTY

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ABSTRACT.—Field work in northern Cumberland County, Illinois, has revealed six ferns and one fern ally which have not been previously reported for the county. One fern extends the northward distribution of the species approximately 36+ miles and the two other ferns by approximately 70+ miles north of their southern stations.

Little study has been conducted on the ferns of Cumberland County, Illinois. Winterringer and Evers (1960) list only six ferns as occurring in the county. The author has re-collected all of these except *Botrychium virginianum* (L.) Sw. and *Onoclea sensibilis* L.

The following six ferns and one fern ally are county records for Cumberland. Three of the ferns extend the northward distribution by approximately 36+ miles for one species and 70+ miles for two other species. All of the specimens were collected in the NE, 27, T. 10.8 N., R. 9.2 E., Pleasant Grove Township, Cumberland County, near Diona, Illinois. All of the specimens were collected in an oak-hickory and sycamore-maple timber on the west-facing bank of the Embarrass River Valley on September 14, 1965. The specimens are in the herbarium of the author.

Lycopodiaceae

Lycopodium lucidulum Michx. The shining clubmoss is very uncommon and can be found growing on moist, shaded, lower sandstone ledges, generally growing with *Asplenium trichomanes* L.

Polypodiaceae

Dryopteris marginalis (L.) Gray. This fern grows on the wooded, rocky, west-facing mid-slope of the Embarrass River Valley.

Dryopteris carthusiana (Fuchs) Villars. The spinulose wood fern is an uncommon fern of a shaded, moist, west-facing sandstone ledge.

Cheilanthes lanosa (Michx.) D. C. Eaton. An extremely rare lip fern of the dry, rocky, wooded upland. This location extends the distribution of this species approximately 36+ miles north of Jasper County, its northernmost station.

Asplenium pinnatifidum Nutt. The pinnatifid spleenwort is very rare and is found growing in the crevices of the sandstone ledges. This specimen extends the distribution of the species approximately 70+ miles northward from its previously known location in Wabash County.

Asplenium trichomanes L. The maiden-hair spleenwort is found very infrequently growing along moist, shaded, lower sandstone ledges. This specimen also extends the known distribution of this specimen 70+ miles north of Wabash County, its northernmost station.

Athyrium thelypteroides (Michx.) This fern is not uncommon and can be found growing on the more shaded, moist, lower slopes and sandstone ledges.

LITERATURE CITED

- WINTERRINGER, G. S., and R. A. EVERS.
1960. New Records for Illinois Vascular Plants. Scientific Papers Series, Vol. XI, Illinois State Museum.

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