

AN ARRANGEMENT OF THE ASCOMYCETES OF INDIANA.¹

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In this second contribution toward a knowledge of the ascomycetes of Indiana, the authors present a classification of all the ascomycetes previously published for the state. The classification follows that used in the first paper, "Ascomycetes new to the flora of Indiana". So far as possible, the names of the counties from which the species have been collected are given. The list comprises 372 species from thirty-eight counties. Future studies will, of course, add largely to this number of species for the state.

While the main purpose of this paper is to bring together the names of all ascomycetes known in Indiana under a system of classification, other features are introduced as aids to mycologists who may refer to the paper. For this purpose, the distribution has been given so far as we have been able to ascertain it. Of the 372 species of ascomycetes known to occur in Indiana, 136 were recorded for the first time in our paper cited in the bibliography at the close of the present paper. The other 236 species were previously recorded for Indiana by other workers. We have determined from our collection of 630 specimens, 263 species of ascomycetes collected by us in Indiana. These are starred in the present paper. The other 109 species not starred are admitted on the determinations of others. We regret that we have not all the data at hand for giving the names of those who have determined these, but mycologists who are interested will get some clue from the bibliography. Among works of special reliability, we may mention those of Professor J. M. Van Hook and his students.

The herbarium material at the University of Indiana, at Purdue University, and at Wabash College we examined hastily; but it was not possible, in the short time available, to examine critically and verify or correct the determinations found in these collections. While a critical examination of the species found in the three herbaria would have added to the value of the present paper, it is hoped that the classification, the additions to the flora, the record of distribution, and some other features of our work may prove helpful in the further study and the final systematic account of the ascomycetes of Indiana.

ASCOMYCETAE.

PEZIZALES.

*Pezizaceae.***Geopyxis nebulosa* (Cooke) Sacc.

Montgomery, Parke.

**Humaria fusispora* Berk.

Jasper.

**Lachnea erinaceus* Schw.Monroe (?)².¹Contributions from the Botanical Laboratories of Miami University. XVI.²Monroe (?) signifies that the collections thus designated may have been made in Monroe County, Clark County, or Brown County.

- **Lachnea hemispherica* (Wigg.) Gill.
Tippecanoe.
- **Lachnea scutellata* (Sow.) Gill.
Monroe (?), Montgomery, Parke, Putnam, Union.
- **Lachnea setosa* (Nees) Phill.
Montgomery.
- **Macropodia macropus* (Peck) Fuck.
Putnam.
- **Otidea aurantia* (Pers.) Mass.
Monroe (?).
- **Peziza bronca* Peck.
Tippecanoe.
- Peziza coccinea* Jacq.
Monroe (?), Montgomery, Putnam.
- Peziza occidentalis* Schw.
Brown, Vigo.
- **Peziza repanda* Wahl.
Monroe (?).
- Peziza succosa* Berk.
Monroe (?).
- **Peziza vesiculosa* Bull.
Monroe (?).
- **Urnula craterium* (Schw.) Fries.
Monroe (?), Montgomery, Putnam, Tippecanoe, Vigo.

Ascobolaceae.

- **Ascobolus atrofuseus* Phill. and Plow.
Montgomery.
- **Ascophanus carneus* (Pers.) Boud.
Tippecanoe.
- **Ascophanus testaceus* (Mong.) Phill.
Tippecanoe.
- **Saccobolus neglectus* Boud.
Montgomery.

Helotiaceae.

- **Chlorosplenium aetiginosum* (Oed.) De Not.
Monroe (?), Montgomery, Putnam.
- **Chlorosplenium chlora* (Lam. and Schw.) Mass.
Montgomery, Parke, Tippecanoe.
- **Dasysecypha virginea* (Batsch) Fuck.
Montgomery, Putnam, Union.
- **Helotium citrinum* (Hedw.) Fries.
Monroe (?), Putnam, Union.
- **Helotium fraternum* Peck.
Parke.

- **Helotium lutescens* Fries.
Union.
- **Lachnum leucophaeum* (Pers.) Karst.
Montgomery.
- **Lanzia helotioides* Rehm.
Montgomery.
- **Phialea seutula* (Pers.) Gill.
Montgomery.
- **Sarcoscypha floccosa* (Schw.) Sacc.
Monroe, Tippecanoe, Union.
- **Sarcoscypha occidentalis* (Schw.) Sacc.
Monroe, Parke, Tippecanoe.
Sclerotinia cinerea (Bon.) Woron.
Tippecanoe.
- **Sclerotinia fructigena* Pers.
Monroe (?), Tippecanoe.
Sclerotinia libertiana Fuck .
Tippecanoe.
- **Sclerotinia trifoliorum* Eriks.
Clark, Fulton, Gibson, Henry.
- **Sclerotinia tuberosa* (Hedw.) Fuck.
Tippecanoe.

Mollisiaceae.

- **Belonidium minutissimum* Fries.
Union.
- **Beloniella dehnii* (Rabenh.) Rehm.
Tippecanoe.
Holwaya gigantea (Peck) Dur.
Monroe.
- **Mollisia cinerea* (Batsch) Karst.
Parke.
- **Orbilina leucostigma* Fries.
Montgomery, Parke, Tippecanoe, Union.
- **Orbilina vinosa* (Alb. and Schw.) Karst.
Montgomery, Union.
- **Pseudopeziza medicaginis* (Lib.) Sacc.
Monroe (?), Tippecanoe.
Pseudopeziza ribis Kleb.
Monroe.
Pseudopeziza trifolii (Bernh.) Fuck.
Marshall, Monroe (?).
- **Tapesia cinerella* Rehm.
Parke, Tippecanoe, Union.

Cenangiaceae.

- **Dermatea carpinea* (Pers.) Rehm.
Union.
- **Sarcosoma rufa* (Lam. and Schw.) Rehm.
Union.

Patellariaceae.

- **Karschia fuispora* (Cooke and Peck) Sacc.
Montgomery.
- **Patellaria atrata* (Hedw.) Fries.
Montgomery, Tippecanoe.

LECANORALES.

Lecideaceae.

- **Bacidia inundata* (Fries) Koerb.
Monroe, Montgomery, Putnam, Tippecanoe, Union.
- **Bacidia rubella* (Hoffm.) Mass.
Tippecanoe.
- **Bacidia schweinitzii* (Tuck.) Fink.
Union.
- **Buellia myriocarpa* (Lam. and D.C.) Mudd.
Franklin, Montgomery, Union.
- **Buellia parasema* (Ach.) Th. Fries.
Putnam.
- **Lecidea albocaerulescens* (Wulf.) Schaer.
Monroe, Parke, Putnam, Tippecanoe.
- **Lecidea coaretata* (J. E. Smith) Nyl.
Montgomery.
- **Lecidea enteroleuca* Ach.
Union.
- **Lecidea myriocarpoides* Nyl.
Monroe.
- **Lecidea uliginosa* (Schrad.) Ach.
Hendricks, Montgomery, Union.

Cladoniaceae.

- **Cladonia bacillaris* (Del.) Nyl.
Hendricks.
- **Cladonia caespiticia* (Pers.) Floerke.
Putnam.
- **Cladonia cariosa* (Ach.) Spreng.
Montgomery.
- **Cladonia coniocraea* (Floerke) Spreng.
Hendricks, Montgomery, Tippecanoe, Union.

- **Cladonia cristatella* Tuck.
Montgomery, Tippecanoe, Wayne.
- **Cladonia fimbriata* (L.) Fries.
Putnam, Wayne.
- **Cladonia furcata* (Huds.) Fries.
Parke, Putnam, Tippecanoe.
- **Cladonia macilenta* Hoffm.
Montgomery, Tippecanoe, Union.
- **Cladonia mitrula* Tuck.
Montgomery, Putnam, Tippecanoe, Union, Wayne.
- **Cladonia pyxidata* (L.) Fries.
Parke, Putnam.
- **Cladonia squamosa* (Scop.) Hoffm.
Wayne.
- Cladonia symphycarpa* Fries.
Putnam.

*Collema*ccae.

- **Leptogium lacerum* (Retz.) S. F. Gray.
Tippecanoe, Wayne.
- **Leptogium pulchellum* (Ach.) Nyl.
Parke, Wayne.
- **Leptogium tremelloides* (L.) S. F. Gray.
Montgomery.

*Pyrenopsis*daccae.

- **Pyrenopsis fuscoatra* Fink.
Montgomery.

*Pannaria*ccae.

- **Pannaria nigra* (Huds.) Nyl.
Montgomery, Wayne.

*Sticta*ccae.

- **Sticta amplissima* (Scop.) Mass.
Hamilton, Marion, Montgomery, Putnam, Wayne.
- **Sticta pulmonaria* (L.) Ach.
Hamilton, Marion, Owen, Putnam, Wayne.

*Peltiger*accae.

- **Nephroma helveticum* Ach.
Putnam.
- Nephroma laevigatum* Ach.
Putnam.

- **Peltigera canina* (L.) Hoffm.
Parke, Putnam, Wayne.
- **Peltigera horizontalis* (L.) Hoffm.
Montgomery.
- **Peltigera praetextata* (Sommerf.) Fink.
Tippecanoe.

Acarosporaceae.

- **Acarospora cervina* (Wahl.) Koerb.
Montgomery.

Lecanoraceae.

- **Lecanora dispersa* (Pers.) Floerke.
Franklin, Montgomery, Union.
- **Lecanora hageni* Ach.
Monroe, Montgomery, Union.
- **Lecanora pallescens* (L.) Schaer.
Wayne.
Lecanora pallida (Schreb.) Schaer.
Putnam.
- **Lecanora subfusca* (L.) Ach.
Putnam.
Lecanora tartarea (L.) Ach.
Putnam.
- **Lecanora varia* (Hoffm.) Ach.
Hendricks, Montgomery, Union.

Pertusariaceae.

- **Pertusaria communis* Lam. and D. C.
Hendricks, Parke, Putnam, Union.
- **Pertusaria pustulata* (Ach.) Nyl.
Union.
- **Pertusaria velata* (Turn.) Nyl.
Putnam, Tippecanoe.

Parmeliaceae.

- **Parmelia borrieri* Turn.
Tippecanoe, Union, Wayne.
- **Parmelia caperata* (L.) Ach.
Franklin, Hamilton, Hendricks, Marion, Montgomery, Putnam, Tippecanoe, Union, Wayne.
- **Parmelia cetrata* Ach.
Wayne.
- **Parmelia ciliata* (Lam. and D. C.) Fink.
Union.

- Parmelia colpodes* (Ach.) Nyl.
Putnam.
- **Parmelia conspersa* (Ehrh.) Ach.
Montgomery.
- Parmelia laevigata* (Smith) Nyl.
Wayne.
- **Parmelia perforata* (Jacq.) Ach.
Putnam.
- **Parmelia rudecta* Ach.
Franklin, Hendricks, Montgomery, Parke, Tippecanoe, Union.
- **Parmelia saxatilis* (L.) Fries.
Hamilton, Marion, Putnam.
- **Parmelia tiliacea* (Hoffm.) Floerke.
Putnam, Wayne.

Usneaceae.

- **Ramalina calicaris* (L.) Fries.
Hamilton, Marion, Putnam, Wayne.
- **Ramalina fraxinea* (L.) Ach.
Union.
- **Usnea barbata* (L.) Fries.
Brown, Hamilton, Marion, Marshall, Owen, Putnam, Wayne.
- **Usnea florida* (L.) Web.
Wayne.
- Usnea angulata* Ach.
Wayne.

Teloschistaceae.

- **Placodium aurellum* (Hoffm.) Fink.
Montgomery, Union.
- **Placodium microphyllum* Tuck.
Montgomery, Union.
- **Placodium pyraccum* (Ach.) Fink.
Montgomery.
- **Placodium sideritis* (Tuck.) Fink.
Franklin, Montgomery, Putnam.
- **Placodium ulmorum* Fink.
Tippecanoe.
- **Placodium variabile* (Pers.) Nyl.
Franklin.
- **Teloschistes concolor* (Dicks.) Tuck.
Franklin, Montgomery, Putnam, Union.
- **Teloschistes lychneus* (Ach.) Tuck.
Montgomery.
- Teloschistes parietinus* Norm.
Wayne.

Physciaceae.

- **Physcia adglutinata* (Floerke) Nyl.
Union, Wayne.
- **Physcia aquila* (Ach.) Nyl.
Montgomery.
- **Physcia astroidea* (Fries) Nyl.
Franklin, Montgomery.
- **Physcia endochrysea* (Hampe) Nyl.
Hendricks, Montgomery, Tippecanoe.
- **Physcia hypoleuca* (Ach.) Tuck.
Tippecanoe, Wayne.
- **Physcia leucoleiptes* (Tuck.) Fink.
Franklin, Monroe, Montgomery.
- **Physcia obscura* (Schaer.) Nyl.
Franklin, Montgomery, Union.
- **Physcia pulverulenta* (Schreb.) Nyl.
Franklin, Montgomery, Union.
- **Physcia speciosa* (Wulf.) Nyl.
Tippecanoe, Union, Wayne.
- **Physcia stellaris* (L.) Nyl.
Franklin, Montgomery, Putnam, Wayne.
- **Physcia tribacia* (Ach.) Nyl.
Hendricks, Montgomery, Parke, Union.
- **Pyxine sorediata* (Ach.) Fries.
Montgomery.
- **Rinodina lecanorina* Mass.
Montgomery.

HELVELLALES.

Geoglossaceae.

- Geoglossum gelatinosum* (Pers.) Dur.
Monroe (?).
- Geoglossum glabrum* Pers.
Monroe.
- **Leotia lubrica* (Scop.) Pers.
Monroe (?), Tippecanoe.
- **Leotia stipitata* (Bosc.) Schröt.
Montgomery (?).
- Microglossum rufum* (L. and S.) Underw.
Monroe.

Helvellaceae.

- **Gyromitra brunnea* Underw.
Putnam.
- Gyromitra gigas* (Krombh) Cooke.
Monroe (?).

- **Helvella crispa* (Scop.) Fries.
Montgomery (?).
- **Helvella elastica* Bull.
Monroe, Montgomery.
Helvella lacunosa Afz.
Monroe.
- **Helvella sulcata* (Schäff.) Afz.
Montgomery.
Morchella conica Pers.
Monroe (?), Putnam.
- **Morchella esculenta* (L.) Pers.
Monroe (?), Montgomery, Putnam.
Morchella rimosipes D. C.
Putnam.
Morchella hybrida (Sow.) Pers.
Putnam.
- **Morchella semilibera* D. C.
Monroe (?).
- Psilopezia nummularis* Berk.
Putnam.

TUBERALES.

- Tuber rufum* Pico.
Monroe (?).

PHACIDIALES.

Stictidaceae.

- **Stictis radiata* (L.) Pers.
Montgomery.

Tryblidiaceae.

- Tryblidium minor* Cooke.
Putnam.

Phacidiaceae.

- **Rhytisma acerina* (Pers.) Fries.
Jasper, Marshall, Monroe, Putnam.
- **Rhytisma andromedae* (Pers.) Fries.
Fulton, Monroe (?).
- Rhytisma ilicis-canadensis* Schw.
Putnam, Marshall, Vigo.

HYSTERIALES.

Dichaenaceae.

- **Dichaena faginea* (Pers.) Fries.
Tippecanoe, Putnam.
- Dichaena ferruginea* (Pers.) Fries.
Monroe (?).

Hysteriaceae.

- **Gloniopsis gerardiana* Sacc.
Montgomery.
- **Gloniopsis lineolata* (Cooke) Sacc.
Hendricks.
- **Glonium lineare* (Fries) Sacc.
Union.
- **Glonium nitidum* Ell.
Montgomery.
- Glonium simulans* Ger.
Monroe (?).
- **Glonium stellatum* Muhl.
Montgomery.
- **Hysterium insidens* Schw.
Hendricks, Montgomery.
- **Hysterographium cinerascens* Schw.
Montgomery.
- **Hysterographium gloniopsis* (Ger.) Ell. and Cooke.
Monroe (?).
- **Hysterographium lesquercauxii* (Duby) Ell. and Ev.
Union.
- **Hysterographium mori* (Schw.) Rehm.
Monroe, Montgomery.
- **Hysterographium rousselii* De Not.
Montgomery.
- **Hysterographium variabile* Cooke and Peck.
Montgomery, Parke, Tippecanoe.

Graphidaceae.

- Graphis dendritica* Ach.
Wayne.
- **Graphis scripta* (L.) Ach.
Montgomery, Parke, Putnam, Union, Wayne.
- **Opegrapha varia* Pers.
Parke, Tippecanoe.

Arthoniaceae.

- **Arthonia dispersa* (Lam. and D. C.) Duf.
Montgomery, Union.
- **Arthonia lecideella* Nyl.
Hendricks, Montgomery, Parke, Tippecanoe, Union.
- **Arthonia radiata* (Pers.) Ach.
Tippecanoe.
- **Arthothelium spectabile* Mass.
Parke, Putnam, Union.

HYPOCREALES.

- **Chromocrea gelatinosa* (Tode) Seaver.
Parke.
- **Claviceps microcephala* (Wallr.) Tul.
Marion, Marshall, Tippecanoe.
- **Claviceps purpurea* (Fries.) Tul.
Clay, Hamilton, Marion, Montgomery, Putnam, Tippecanoe.
- Cordyceps hereulea* (Schw.) Sacc.
Monroe (?).
- Cordyceps militaris* (L.) Link.
Monroe (?).
- Cordyceps ophioglossoides* (Ehrh.) Sacc.
Montgomery, Putnam.
- **Epichloe typhina* (Pers.) Tul.
Putnam, Tippecanoe.
- Gibberella saubinettii* (Mont.) Sacc.
Monroe.
- Hypocrea citrina* (Pers.) Fries.
Putnam.
- Hypocrea gelatinosa* (Tode) Fries.
Putnam.
- **Hypocrea lenta* (Tode) Berk. and Brown.
Montgomery.
- Hypocrea rufa* (Pers.) Fries.
Putnam.
- **Hypocrea sulphurea* (Schw.) Sacc.
Union.
- **Hypomyces lactifluorum* (Schw.) Tul.
Monroe (?).
- Hypomyces rosellus* (Alb. and Schw.) Tul.
Monroe (?).
- **Nectria cinnabarina* (Tode) Fries.
Carroll, Monroe (?), Montgomery.
- Nectria ditissima* Tul.
Nurseries.
- **Nectria episphaeria* (Tode) Fries.
Montgomery.
- Nectria ipomeae* Hals.
Franklin, Monroe, Tippecanoe.
- **Nectria sanguinea* Fries.
Montgomery.

DOTIIDIALES.

Dothidiaceae.

- Dothidea collecta* (Schw.) Ell. and Ev.
Putnam.
- **Dothidea glumarum* Berk and Curt.
Montgomery.

- Dothidea linderæ Ger.
Putnam.
- Dothidella ulmea (Schw.) Ell. and Ev.
Kosciusko, Monroe, Montgomery.
- *Dothidella ulmi (Duv.) Wint.
Decatur, Montgomery.
- *Phyllachora graminis (Pers.) Fuck.
Hamilton, Johnson, Marion, Monroe, Montgomery, Putnam, Tippe-
canoe.
- Phyllachora lespedezae (Schw.) Cooke.
Marshall.
- Phyllachora pomigena (Schw.) Sacc.
Tippecanoe.
- *Phyllachora potentillae Peck.
Montgomery.
- *Phyllachora trifolii (Pers.) Fuck.
Johnson, Tippecanoe.
- *Plowrightia morbosa (Schw.) Sacc.
Franklin, Montgomery, Putnam.

SPHAERIALES.

Chaetomiaceae.

- *Chaetomium bastrychodes Zopf.
Tippecanoe.

Sordariaceae.

- *Sporormia minima Auersw.
Montgomery.

Sphaeriaceae.

- *Anthostomella ostiolata Ell.
Monroe (?), Montgomery.
- Endothia parasitica (Murr.) Anders.
Benton, Marion.
- Glomerella rufo-maculans Schrenk and Spauld.
Tippecanoe.
- *Lasiosphaeria hirsuta (Fries) Ces. and De Not.
Parke.
- *Lasiosphaeria hispida (Tode) Fuck.
Montgomery.
- *Lasiosphaeria ovina (Pers.) Ces. and De Not.
Union.
- *Leptosphaeria borealis Ell. and Ev.
Montgomery.
- *Leptosphaeria doliolum (Pers.) Ces. and De Not.
Montgomery.
- *Leptosphaeria dumentorum Niessl.
Montgomery.

- **Leptosphaeria subacuta* (Cooke and Peck) Sacc.
Montgomery.
- **Leptosphaeria subconica* (Cooke and Peck) Sacc.
Montgomery.
Massaria inquinans (Tode) Fries.
Monroe.
- **Melanomma sporadicum* Ell. and Ev.
Putnam, Union.
- **Rosellinia aquila* (Fries) De Not.
Boone, Monroe, Montgomery, Putnam.
Rosellinia glandiformis Ell. and Ev.
Boone, Monroe.
Rosellinia ligniaria (Grev.) Sacc.
Boone, Monroe.
Rosellinia mammiformis (Pers.) Ces. and De Not.
Monroe.
- **Rosellinia medullaris* (Wallr.) Ces. and De Not.
Monroe, Montgomery.
Rosellinia mutans (Cooke and Peck) (Sacc.)
Monroe.
Rosellinia pulveracea (Ehrh.) Fuck.
Boone, Hamilton.
- **Rosellinia subiculata* (Schw.) Sacc.
Clark, Hamilton, Monroe, Montgomery.
Sphaerella fragariae (Tul.) Sacc.
Johnson, Monroe (?), Putnam.
Sphaerella fraxinicola (Schw.) Cooke.
Johnson.
Sphaerella thalietri Ell. and Ev.
Montgomery.
Sphaeria iridis Schw.
Montgomery.
- **Teichospora obducens* (Fries) Fuck.
Union.
- **Trichosphaeria pilosa* (Pers.) Fuck.
Montgomery.

Ceratostomaceae.

- **Ceratostomella barbaroetra* (Duf.) Sacc.
Monroe.

Amphisphaeriaceae.

- **Amphisphaeria inerustans* Ell. and Ev.
Montgomery.
- **Caryospora putaminum* (Schw.) De Not.
Putnam, Tippecanoe.
- **Trematosphaeria pertusa* (Pers.) Fuck.
Owen, Tippecanoe.

Mycosphaerellaceae.

- **Guignardia bidwellii* (Ell.) Via. and Rav.
 Johnson, Monroe, Owen, Putnam, Tippecanoe.
Mycosphaerella ulmi Kleb.
 Johnson.

Pleosporaceae.

- Didymella lophospora* Sacc. and Speg.
 Monroe.
 **Ophiobolus acuminatus* (Sow.) Duby.
 Montgomery.
 **Ophiobolus anguillides* (Cooke) Sacc.
 Montgomery.
 **Ophiobolus solidaginis* (Fries) Sacc.
 Montgomery.
Venturia cerasi Aderh.
 Kosciusko.
Venturia inaequalis (Cooke) Wint.
 Tippecanoe (?).
 **Venturia pomi* (Fries) Wint.
 Franklin, Monroe.
Venturia pyrina Aderh.
 Montgomery, Tippecanoe.

Gnomoniaceae.

- **Gnomonia ulmea* (Schw.) Thüm.
 Johnson, Montgomery.

Valsaceae.

- **Diaporthe albocarnis* Ell. and Ev.
 Montgomery.
Diaporthe batatatis Hart. and Field.
 Franklin, Tippecanoe.
 **Diaporthe orthoceras* (Fries) Nits.
 Montgomery.
 **Eutypa ludibunda* Sacc.
 Montgomery.
 **Eutypa spinosa* (Pers.) Tul.
 Montgomery, Putnam.
 **Eutypella cerviculata* (Fries) Ell. and Ev.
 Tippecanoe.
Eutypella platani (Schw.) Sacc.
 Putnam.
Valsa leucostoma (Pers.) Fries.
 Monroe (?).

Melanchoniaceae.

- Valsaria exasperans* (Ger.) Ell. and Ev.
 Monroe, Putnam.
- Valsaria quadrata* (Schw.) Sacc.
 Putnam.

Diatrypaceae.

- **Diatrype albopruinosa* (Schw.) Cooke.
 Monroe (?), Tippecanoe, Vigo.
- **Diatrype asterostoma* Berk. and Curt.
 Union.
- **Diatrype stigma* (Hoffm.) Fries.
 Monroe (?), Montgomery.
- **Diatrype virescens* (Schw.) Ell. and Ev.
 Monroe (?), Montgomery, Putnam.
- Diatrypella cephalanthi* (Schw.) Sacc.
 Putnam.
- **Diatrypella prominens* (Howe) Ell. and Ev.
 Monroe, Montgomery.

Melogrammataceae.

- **Botryosphaeria sumachi* (Schw.) Cooke.
 Montgomery.

Xylariaceae.

- **Daldinia concentrica* (Bolt.) Ces. and De Not.
 Monroe (?), Montgomery, Putnam.
- Hypoxyton annulatum* (Schw.) Mont.
 Monroe, Putnam.
- **Hypoxyton atropunctatum* (Schw.) Mont.
 Monroe, Montgomery, Orange, Putnam.
- Hypoxyton atropurpureum* Fries.
 Monroe, Owens.
- Hypoxyton coccineum* Bull.
 Monroe, Montgomery, Putnam.
- **Hypoxyton coherans* (Pers.) Fries.
 Monroe, Montgomery, Putnam.
- Hypoxyton effusum* Nits.
 Monroe.
- Hypoxyton fuscopurpureum* (Schw.) Berk.
 Monroe.
- **Hypoxyton fuscum* (Pers.) Fries.
 Monroe, Montgomery, Tippecanoe, Union.
- Hypoxyton howeianum* Peck.
 Monroe.
- **Hypoxyton insidens* Schw.
 Montgomery.

- Hypoxylon investiens* (Schw.) Berk.
Monroe (?).
- Hypoxylon marginatum* (Schw.) Berk.
Monroe, Putnam.
- **Hypoxylon multiforme* Fries.
Monroe, Montgomery.
- Hypoxylon perforatum* (Schw.) Sacc.
Monroe, Putnam.
- Hypoxylon petersii* Berk. and Curt.
Monroe (?), Putnam.
- **Hypoxylon rubiginosum* (Pers.) Fries.
Clark, Monroe, Montgomery, Putnam.
- **Hypoxylon sassafras* (Schw.) Berk.
Monroe, Putnam.
- **Hypoxylon stigmatum* Cooke.
Montgomery, Union.
- Hypoxylon turbinulatum* (Schw.) Berk.
Monroe.
- **Nummularia bulliardi* Tul.
Brown, Clark, Hendricks, Monroe, Putnam.
- Nummularia discreta* (Schw.) Tul.
Hendricks, Monroe, Putnam.
- Nummularia microplaca* (Berk. and Curt.) Cooke.
Monroe.
- Nummularia repanda* (Fries) Nits.
Clark, Monroe, Putnam.
- Nummularia tinctor* (Berk.) Ell. and Ev.
Monroe.
- **Ustulina vulgaris* Tul.
Monroe (?), Montgomery, Parke, Putnam, Union.
- **Xylaria castorea* Berk.
Hendricks, Monroe (?).
- **Xylaria corniformis* Fries.
Monroe, Montgomery, Putnam.
- **Xylaria digitata* (L.) Grev.
Montgomery.
- Xylaria hypoxylon* (L.) Grev.
Monroe (?), Putnam.
- **Xylaria polymorpha* (Pers.) Grev.
Hamilton, Marion, Monroe (?), Montgomery, Putnam, Tippecanoe,
Union.

PYRENULALES.

Verrucariaceae.

- **Verrucaria epigea* (Pers.) Ach.
Union.
- **Verrucaria muralis* Ach.
Franklin, Monroe, Montgomery, Putnam.

- **Verrucaria nigrescens* Pers.
Montgomery, Putnam, Tippecanoe.
- **Verrucaria rupestris* Schrad.
Montgomery.
- **Verrucaria sordida* Fink.
Montgomery.
- **Verrucaria viridula* Ach.
Montgomery.

Pyrenulaceae.

- **Pyrenula cinerella* (Flot.) Fink.
Union.
- **Pyrenula leucoplaca* (Wallr.) Karst.
Parke.
- **Pyrenula nitida* (Weig.) Ach.
Parke.

Dermatocarpaceae.

- Endocarpon miniatum* Fries.
Owen, Wayne.
- **Endocarpon pusillum* Hedw.
Franklin, Montgomery, Union.
- **Thelocarpon prasinellum* Nyl.
Union.

Trypetheliaceae.

- **Trypethelium virens* Tuck.
Tippecanoe.

PERISPORIALES.

Erysiphaceae.

- **Erysiphe eichoracearum* D. C.
Johnson, Marshall, Monroe, Montgomery, Putnam, Tippecanoe, Union.
- **Erysiphe communis* (Waalr.) Fries.
Johnson, Marshall, Montgomery, Owen, Putnam.
- Erysiphe galeopsidis* D. C.
Fulton, Johnson, Marshall, Montgomery, Putnam.
- **Erysiphe graminis* D. C.
Johnson, Monroe, Montgomery, Putnam.
- Erysiphe horridula* Lev.
Montgomery.
- Erysiphe lamprocarpa* (Wallr.) Lev.
Montgomery.
- Erysiphe liriiodendri* Schw.
Montgomery, Putnam, Wabash.
- **Erysiphe polygoni* D. C.
Monroe, Montgomery, Parke, Putnam, Tippecanoe, Union.

- Erysiphe tortilis* (Wallr.), Link.
Montgomery.
- **Microsphaera albi* (D. C.) Wint.
Fulton, Johnson, Marshall, Monroe, Montgomery, Putnam, Tippecanoe,
Union.
- Microsphaera densissima* Cooke and Peck.
Montgomery.
- **Microsphaera diffusa* Cooke and Peck.
Marshall, Montgomery.
- **Microsphaera elevata* Burr.
Monroe, Owen, Putnam, Tippecanoe.
- Microsphaera erineophila* Peck.
Marion, Putnam.
- **Microsphaera enonymi* (D. C.) Sacc.
Tippecanoe.
- **Microsphaera euphorbiae* (Peck) Berk. and Curt.
Steuben, Tippecanoe.
- Microsphaera extensa* Cook and Peck.
Montgomery (?).
- Microsphaera friesii* Lev.
Montgomery.
- **Microsphaera grossulariae* (Wallr.) Lév.
Johnson, Montgomery.
- **Microsphaera quercina* (Schw.) Burr.
Johnson, Marshall, Montgomery, Putnam, Vigo.
- Microsphaera platani* Howe.
Montgomery.
- Microsphaera ravenelii* Berk.
Johnson, Marion, Montgomery, Owen, Putnam, Vigo.
- **Microsphaera russellii* Clint.
Johnson, Montgomery, Owen, Putnam, Vigo.
- Microsphaera semitosta* Berk. and Curt.
Johnson, Vigo.
- Microsphaera symphoricarpi* Howe.
Montgomery, Putnam.
- Microsphaera vaccinii* (Schw.) Cooke and Peck.
Marshall, Montgomery, Owen, Putnam, Tippecanoe.
- **Phyllactinia corylea* (Pers.) Karst.
Carroll, Johnson, Montgomery, Putnam.
- **Phyllactinia suffulta* (Reh.) Sacc.
Johnson, Marshall, Montgomery, Putnam, Shelby, Vigo.
- **Podosphaera binucinata* Cooke and Peck.
Putnam.
- **Podosphaera leucotricha* (Ell. and Ev.) Salm.
Sullivan.
- **Podosphaera oxycanthae* (D. C.) De Bary.
Floyd, Fountain, Johnson, Marshall, Monroe, Montgomery, Owen, Putnam, Tippecanoe.

- Sphaerotheca castagnei* Lév.
Johnson, Marshall, Monroe, Montgomery, Putnam, Tippecanoe.
- **Sphaerotheca humuli* (D. C.) Burr.
Marshall, Monroe, Montgomery, Putnam, Tippecanoe.
- **Sphaerotheca humuli fuliginea* (Schlecht.) Salm.
Montgomery.
- Sphaerotheca mors-nvae* (Schw.) Berk. and Curt.
Montgomery.
- **Sphaerotheca pannosa* (Wallr.) Lév.
Elkhart, Fayette, Johnson, Monroe (?), Putnam.
- **Sphaerotheca phytophila* Kell. and Swing.
Montgomery, Putnam, Tippecanoe.
- Uncinula adunca* Lév.
Montgomery (?).
- Uncinula americana* Howe.
Montgomery.
- Uncinula ampelopsidis* Peck.
Montgomery, Tippecanoe.
- **Uncinula circinata* Cooke and Peck.
Johnson, Marshall, Montgomery, Putnam.
- **Uncinula clintonii* Peck.
Montgomery, Putnam.
- **Uncinula flexuosa* Peck.
Hamilton, Johnson, Montgomery, Putnam.
- **Uncinula geniculata* Ger.
Johnson, Monroe, Montgomery.
- **Uncinula macrospora* Peck.
Johnson, Montgomery, Owen, Putnam, Wabash.
- **Uncinula necator* (Schw.) Burr.
Johnson, Monroe, Montgomery, Putnam.
- **Uncinula parvula* Cooke and Peck.
Johnson, Marion, Putnam.
- **Uncinula salicis* (D. C.) Wint.
Marshall, Monroe, Montgomery, Putnam, Tippecanoe.

Perisporiaceae.

- Dimerosporium collinsii* (Schw.) Thüem.
Monroe (?).
- **Scorias spongiosa* (Schw.) Fries.
Monroe (?), Owen, Putnam.

ASPERGILLALES.

- Aspergillus glaucus* (Wigg.) Link.
Tippecanoe.
- **Penicillium crustaceum* Link.
Tippecanoe.

EXOASCALES.

Eroascaccac.

- Exoascus deformans* (Berk.) Fuck.
 Monroe, Montgomery, Putnam, Tippecanoe, Vigo.
- **Exoascus mirabilis* Atkins.
 Jefferson, Orange.
- Exoascus potentillae* Farl.
 Putnam, Vigo.
- Exoascus pruni* (Tul.) Fuck.
 Monroe, Tippecanoe.
- **Taphrina caeruleascens* (Mont.) Tul.
 Montgomery.
- **Taphrina potentillae* (Farl.) John.
 Vigo.
- **Taphrina virginica* Sad. and Seym.
 Putnam, Vigo.

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