

PROGRAM OF THE BOTANICAL SECTION

M. S. MARKLE, Chairman

1. Temperature changes and the water content of *Salix* and *Helianthus*. E. A. Purer, San Diego High School, California, and Delzie Demaree, State of Ohio, Forestry Department.
2. Pteridophytes in Lawrence County. Ralph M. Kriebel, Bedford.
3. The effect of interrupted translocation upon loss of chlorophyll in leaves during autumn coloration. Agatha Louise Griffin, Butler University.
4. Plants new or rare to Indiana. XX. Charles C. Deam, Bluffton.
5. Physical features in relation to limberness in wood. J. E. Potzger and Florence Geisler, Butler University.
6. Plant records from the Dunes. Carl A. Buhl, University of Chicago.
7. Periodicity and taxonomy of plankton algae of White River Canal, Indianapolis. E. Charlene Coffing, Butler University.
8. A sampling method for *Piceetum rubrae* and *Abietum Fraseri* of the Great Smoky Mountains National Park. Stanley A. Cain, Indiana University.
9. *Quercetum montanae* in Lilly's Woods, Brown County, Indiana. Stanley A. Cain, Indiana University.
10. Indiana fungi. XIII. J. M. VanHook, Indiana University.
11. Further studies on the algae of Indiana. M. E. Britton and B. H. Smith, Indiana State Teachers College.
12. Notes on some Cyanophyceae from the Middle West. Lois C. Lillick, University of Cincinnati.
13. The anatomy of an anomalous grass, *Hymenachne amplexicaulis*. James L. Haynes, Indiana University.
14. Distribution of water in the leaves and stems of *Ricinus communis* L. Delzie Demaree, State of Ohio, Forestry Department.
15. The effect of fluorescent and phosphorescent minerals upon the growth of fungi. John N. Porter, Purdue University.
16. Evaporation and soil moisture on north- and south-facing slopes of a Monroe County ridge. J. E. Potzger, Butler University.
17. The anatomy of the seedling of *Asparagus officinalis* L. Naomi Mullendore, Franklin College.
18. Rare Gasteromycetes of Indiana. A. R. Bechtel, Wabash College.
19. Anthracnose of *Betula nigra*. J. M. VanHook and R. C. Busteded, Indiana University.
20. Michigan phytoplankton. J. H. Hoskins, University of Cincinnati, and Theodore Just, University of Notre Dame.
21. Notes on Indiana grasses—1934. J. E. Potzger, Butler University.

22. Distribution, morphology and relation of compound and simple ectotrophic mycorrhizae to true endotrophic pseudomycorrhizae, and secondary mantle formation by parasitic Rhizopogons. K. D. Doak, University of Pennsylvania.
23. Stratigraphy and preliminary fossil pollen analysis of a Lake County, Illinois, bog. Russell C. Artist, Northwestern University.
24. The Dutch elm disease. R. W. Samson, Purdue University.
Papers 2, 3, 22, and 24 were illustrated with exhibits.