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The information presented in this paper represents a part of the results obtained by the Canadian Forest Insect Survey, a cooperative enterprise between industry, protection services and forest entomologists.

In a very concise way are set down facts and figures on the numbers, food trees, distribution, life history, sex ratio and parasitism of each species, where possible, that feeds upon spruce foliage and also of the insect predators of these species. The numbers and distribution of many adult beetles and true bugs found on spruce are given. Last but by no means least there are valuable keys for the identification of many of the sawfly and lepidopterous larvae and adult bugs, scales and aphids dealt with in the bulletin.

It is a ready-reference work that should be on the desk of every one interested in entomology as it relates to forestry in Canada.—W.C.McG.

GUIDE TO THE FISHES OF THE GREAT LAKES AND TRIBUTARY WATERS. *By Carl L. Hubbs and Karl F. Lagler. Cranbrook Institute of Science, Bloomfield Hills, Michigan. 1941. In cloth, \$1.00, in paper, 50 cents.*

There is a dearth of popular literature on the identification, distribution and ecological occurrence of our fishes. The present publication goes a long way towards meeting this need. The senior author, Dr. Carl L. Hubbs of the Museum of Zoology, University of Michigan, is one of the leading ichthyologists of North America so that the information is thoroughly sound and up-to-date. As stated in the introduction the authors have attempted to provide a means by which all persons interested may: (1) learn the characters of importance for the identification of fresh-water fishes and the method by which they may accurately be distinguished; (2) "key" the Great Lakes species to their correct taxonomic designation; (3) become acquainted with their known graphic range, and (4) find an ecological annotation indicating the habitat in which each form most frequently lives. The publication is illustrated with 100 half-tone illustrations of the fishes and 33 other illustrations of characters used in identification. The work deals with 170 species represented by 229 named forms. Of these, 122 species are represented in Ontario. In addition, the fresh-waters of Ontario contain at least one species, the goldeye, *Amphiodon alosoides*, not found in the Great Lakes basin. Another species, *Aphredoderus sayanus*, is incor-

rectly listed in the Guide as occurring in Ontario. Dr. Hubbs has advised me that the inclusion of South Dakota within the range of this species is also an error.

It cannot be claimed that this guide makes the identification of all fishes easy (the identification of some groups, such as the minnows and whitefishes, requires considerable experience) but it can be stated that it is the most useful publication for the identification of the fishes of the Great Lakes region that has yet appeared.—J.R.D.

A FAUNAL INVESTIGATION OF PRINCE EDWARD COUNTY, ONTARIO. *By L. L. Snyder, E. B. S. Logier, T. B. Kurata, F. A. Urquhart, and J. F. Brimley. University of Toronto Studies, Biological Series, No. 48, The University of Toronto Press, Toronto, Canada, 1941. Price \$1.00.*

This interesting and useful publication is concerned with the animals of an unusual part of Ontario. Prince Edward County is notable for its insular character, for it was naturally almost an island in Lake Ontario and its separation from the mainland has been artificially completed by the digging of a canal across the narrow isthmus that once made it a peninsula. It is also distinguished climatically from the rest of the Province, for it has an annual precipitation of only 28.6 inches and a high summer temperature (a mean of 70° for July). It is interesting to learn that, although agriculture is so highly developed in the county that it is commonly referred to as "Ontario's market garden", there still remain within the county boundary some fairly extensive forested tracts. The combination of conditions thus briefly stated provides a setting for an especially interesting fauna.

The publication under review, which gives an account of the more prominent components of that fauna, consists of seven separate papers, namely:

- "General Introduction", by L. L. Snyder;
- "The Mammals of Prince Edward County, Ontario", by L. L. Snyder;
- "The Birds of Prince Edward County, Ontario", by L. L. Snyder;
- "The Amphibians and Reptiles of Prince Edward County, Ontario", by E. B. S. Logier;
- "A List of the Spiders of Prince Edward County, Ontario", by T. B. Kurata;
- "An Annotated List of the Crickets and Grasshoppers (*Orthoptera Saltatoria*) of Prince Edward County, Ontario", by F. A. Urquhart;
- "A List of the Long-horned Beetles (*Cerambycidae*) of Prince Edward County, Ontario", by J. F. Brimley.

The original data on which this account of the





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