

REVIEWS

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THE LEPIDOPTERA OF NOVA SCOTIA. PART I. MACROLEPIDOPTERA. By D. C. Ferguson. *Proc. Nova Scotian Inst. Science* (Halifax), vol. 23: pp. 161-375, 16 pls. Feb. 1954. [Price for separates—\$2.00; available from D. C. Ferguson, Nova Scotia Museum of Science, Spring Garden Road, Halifax, N.S., Canada.]

This is an annotated check list of high quality. Any lepidopterist whose interests include the Northeast will find this an essential publication. For each species the precise Nova Scotian localities and flight dates are given, in most cases with comments on special matters such as distribution, habits, habitats, characteristics, and foodplants. Mr. FERGUSON notes that over 50,000 specimens formed the basis of the list and that he personally collected about 75% of the specimens and about 95% of the species during eleven years of intensive field work in most parts of Nova Scotia. Of the 832 species of Macrolepidoptera, 68 are butterflies, 27 Sphingidæ, 6 Saturniidæ, 3 Euchromiidæ, 3 Nolidæ, 33 Arctiidæ, 1 Agaristidæ, 426 Noctuidæ, 32 Notodontidæ, 7 Lymantriidæ, 5 Lasiocampidæ, 2 Thyatiridæ, 4 Drepanidæ, 214 Geometridæ, and 1 Epiplemidæ.

For lepidopterists outside of Nova Scotia the foodplant records will be especially useful. Mr. FERGUSON has apparently reared hundreds of species from larvæ collected in the Province. Although the prefatory remarks state that his own foodplant records are clearly distinguished from those of outside workers, this is not always the case. For example, it appears that Mr. FERGUSON has reared *Erora leta* "on beaked hazelnut (*Corylus*)", *Nymphalis j-album* on "white birch, willow", and *Zale duplicata* "most commonly bred from *Pinus strobus*", but it may be that none or all of these were actually found by him.

The 16 plates give good reproductions of photographs of over 200 specimens from Nova Scotia, including several types.

The separata of the publication include a few *corrigenda*, for small errors in the original issue, and a number of additional records bringing the total of Macrolepidoptera known from Nova Scotia to 858 species.

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DIE SCHMETTERLINGE MITTELEUROPA. By Walter Forster & Theodor A. Wohlfahrt. [In German.] [Third instalments, 1952]: vol. 1: pp. 65-128, text figs. 37-110; vol. 2: colored pls. 9-14. [Fourth instalments, 1953]: vol. 1: pp. 129-192, text figs. 111-147; vol. 2: colored pls. 15-18. [Fifth instalments, 1954]: vol. 1: pp. xii + 193-202 + [2]; vol. 2: pp. 65-96, text figs. 23-33, colored pls. 19-20. Publisher: Franckh'sche Verlagshandlung, W. Keller & Co., Stuttgart, Germany. Price DM. 10 each instalment.

The first and second instalments of this important work were reviewed in the *Lepid. News* (vol. 6: pp. 79-80, 1952, and vol. 7: p. 26, 1953, respectively).

The third instalment of vol. 1 deals in detail with the anatomy, development, colors and patterns of the Lepidoptera, and is accompanied by excellent and interesting figures, many of which contain a number of sub-figures. The fourth instalment discusses the biology or mode of life, enemies, parasites and diseases of the Lepidoptera, the benefits of and damage caused by Lepidoptera, their geographic distribution, genetics, systematics, and nomenclature. The fifth instalment contains the title page, preface, table of contents, a few words on nature conservation, list of literature and a subject index, thus completing the volume.

The third instalment of vol. 2, continuing with the plates of the Satyridæ, concludes *Erebia*, continues with *Agapetes*, *Eneis*, *Brintesia*, *Hipparchia*, *Arethusana*, *Chazara*, *Minois*, *Satyrus*, *Dira*, *Apantopus*, *Pararge*, *Hyponphele*, *Maniola*, *Lopinga*, *Pyronia*,