

BOOK NOTICE

INSECT PESTS by George S. Fichter, edited by Herbert H. Zim, illustrated by Nicholas Strekalovsky, was published in the Golden Nature Guide Series in 1966, price \$1.00. It contains illustrations in color and useful information on 67 species of butterflies and moths, some of which is not as readily available elsewhere. The species of Lepidoptera covered are tabulated below in the order in which they are included in generally followed lists.

PAPILIONIDAE: *Papilio polyxenes asterius* (black swallowtail, celery worm) p. 83. PIERIDAE: *Pieris rapae* (imported cabbageworm) pp. 13, 80; *Colias eurytheme* (alfalfa caterpillar) p. 115. SPHINGIDAE: *Protoparce sexta* (Carolina sphinx, tobacco hornworm) pp. 13, 15, 113; *Protoparce quinquemaculata* (tomato hornworm) p. 82. ARCTIIDAE: *Isia isabella* (banded woollybear) p. 83. NOCTUIDAE: *Agrotis orthogonia* (pale cutworm) p. 64, *Agrotis ipsilon* (black cutworm) p. 64, *Peridroma saucia* (variegated cutworm) p. 64, *Amathes c-nigrum* (spotted cutworm) p. 64, *Pseudaletia unipuncta* (armyworm) pp. 11, 110; *Lithophane antennata* (green fruitworm) p. 124, *Papaipema purpurfascia* (columbine borer) p. 93, *Papaipema nebris* (stalk borer) p. 114, *Laphygma frugiperda* (fall armyworm) p. 110, *Heliothis zea* (corn earworm, bollworm) p. 109, *Trichoplusia ni* (cabbage looper) p. 80, *Alabama argillacea* (cotton leafworm) p. 108. DIOPTIDAE: *Phryganidia californica* (California oakworm) p. 144. LIPARIDAE: *Hemerocampa leucostigma* (white marked tussock moth) p. 143, *Porthetria dispar* (gypsy moth) p. 142, *Nygmia phaeorrhoea* (brown tail moth) p. 143. LASIOCAMPIDAE: *Malacosoma americana* (eastern tent caterpillar) p. 143, *Malacosoma disstria* (forest tent caterpillar) p. 143. GEOMETRIDAE: *Alsophila pometaria* (fall cankerworm) p. 121, *Paleacrita vernata* (spring cankerworm) p. 121. LIMACODIDAE: *Sibine stimulea* (saddleback caterpillar) p. 47, *Phobetrion pitheciun* (hag moth caterpillar) p. 47. MEGALOPYGIDAE: *Megalopyge opercularis* (puss caterpillar) p. 47. PYRALIDAE: *Diaphania nitidalis* (pickleworm) p. 81, *Diaphania hyalinata* (melonworm) p. 81, *Loxostege similalis* (garden webworm) p. 82, *Loxostege sticticalis* (beet webworm) p. 82, *Udea rubigalis* (celery leaf-tier) p. 83, *Pyrausta nubilalis* (European cornborer) p. 112, *Crambus caliginosellus* (corn root webworm) p. 115, *Diatraea crambidoides* (southern corn stalk borer) p. 114, *Elasmopalpus lignosellus* (lesser corn stalk borer) p. 114, *Anagasta kuhniella* (Mediterranean flour moth) p. 149, *Ephesia elutella* (tobacco moth) p. 151, *Plodia interpunctella* (Indian meal moth) p. 149. TORTRICIDAE: *Spilonota ocellana* (eye-spotted bud moth) p. 121, *Grapholitha molesta* (Oriental fruit moth) p. 123, *Grapholitha packardii* (cherry fruit worm) p. 124, *Grapholitha interstictana* (clover head caterpillar) p. 115, *Carpocapsa pomonella* (codling moth) p. 120; *Archips argyrospilus* (fruit-tree leaf-roller) p. 124, *A. rosaceanus* (oblique-banded leaf-roller) p. 93, *Choristoneura fumiferana* (spruce budworm) p. 142, *Argyrotaenia velutinana* (red-banded leaf-roller) p. 93. COSSIDAE: *Prionoxystus robiniae* (carpenter worm) p. 144. GELECHIIDAE: *Sitotroga cerealella* (Angoumois grain moth) p. 148, *Pectinophora gossypiella* (pink bollworm) p. 108, *Gnorimoschema operculella* (potato tuberworm) p. 82, *Anarsia lineatella* (peach twig borer) p. 123. AGERIDAE: *Sanninoidea exitiosa* (peach tree borer) p. 122, *Synanthedon pictipes* (lesser peach tree borer) p. 122, *Podosesia syringae* (lilac borer) p. 93, *Melittia curcubitae* (squash vine borer) p. 81. PLUTELLIDAE: *Plutella maculipennis* (diamond back moth) p. 80. YPONOMEUTIDAE: *Argyresthia thuiella* (arborvitae leaf miner) p. 92. COLEOPHORIDAE: *Coleophora caryae-foeliella* (pecan cigar case bearer) p. 144. GRACILLARIIDAE: *Gracillaria azaleella* (azalea leaf miner) p. 92. PSYCHIDAE: *Thyridopteryx ephemeraeformis* (bagworm) p. 94. TINEIDAE: *Tinea pellionella* (case-making clothes moth) p. 31, *Tineola biselliella* (webbing clothes moth) p. 31, *Tineola walsinghami* (plaster bagworm) p. 31.

In addition to finding illustrations and information about 67 species of Lepidoptera, the lepidopterist will note that only 67 of the more than 350 pests described are

Lepidoptera and that only three are butterflies. Twenty-one families of moths are represented: there are 12 of the noctuids and the pyralids; 9 tortricids; 4 each of gelechiids and aegeriids; 3 liparids and 3 tineids; 2 each sphingids, lasiocampids, geometrids, limacodids; and only one each of the remaining: arctiid, diophtid, megalopygid, cossid, plutellid, yponomeutid, coleophorid, gracillariid, and psychid. However, in the case of the Diophtidae, 100% of the species recorded from the United States and Canada fall into the pest category.—BRYANT MATHER, *Jackson, Mississippi*.

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INDEX LITTERATURAE ENTOMOLOGICAE, Serie II, vol. II/F-L/. By W. Derksen and U. Sheiding-Göllner. 678 pp. Published by the German Academy of Agricultural Sciences. Price 55,-MDN. 1966 [„1965“].

The “Index” contains all entomological papers published in the period of 1864–1900. The second volume includes the authors’ names in alphabetical sequence from Fabani to Lyttkens. For more important authors general biographical dates are given. This monumental work will contain four volumes with the “Authors index” and one with the “General index.” Both volumes, edited by the German Entomological Institute, have 1375 pages. Review of the first volume see: *Jour. Lepid. Soc.*, 19:62, 1965. The “Index” is very important for all students in entomology, especially in taxonomy, faunistics, zoogeography a.o.—JOSEF MOUCHA, *National Museum Prague, Praha 1-Czechoslovakia*.

THE LARVAE OF *CELERIO LINEATA* AS FOOD FOR INDIANS¹

While reading the letters written by William Greenwood Wright to Herman Strecker of Reading, Pennsylvania, I came across one dated July 10, 1882, from San Bernardino, California, that interested and amused me. The pertinent part of the letter reads:

“The digger indians eat the larvae as a delicacy, when they are plenty. They are desert larvae, I guess native to Arizona or South as Mexico or Lower Cal. They live best in the hot sandy deserts where it is roasting hot & never a drop of water to drink. When botanizing, years ago, I have seen the larvae in incredible numbers great, horrid things, feeding on the abronia (The abronia greatly resembles in habit & in flower, the common garden Verbenas.) & tribes of indians going after them like people after huckleberries. They seize a large larva, pull off its head & giving the carcass a jerk, throw out the viscera and then string the empty body on strings & hang them about their necks still wriggling; or else throw the carcass into a basket or bag to take them home where they hold a feast of several days & the indians come from 100 miles on foot to where the worms are found, to participate in the feast, & to carry home bags full of the dried larvae as stock for future soups. All of which I have seen & know to be true, though incredible.”

Wright took a few of the larvae home and raised them. They proved to be *Celerio lineata* (Fabr.), a Sphingid that is abundant throughout the desert and other parts of the Southwest as well as elsewhere. The above quotation is just as Wright wrote it. The letter is one of many from Wright to Strecker in the files of the Department of Entomology at the Field Museum in Chicago.—F. MARTIN BROWN, *Fountain Valley School, Colorado Springs, Colorado*.

¹ This note is a by-product of N.S.F. Grant GS-969 to preserve the Strecker papers.