



Leaf-Mining Insects

James G. Needham, Stuart W. Frost, Beatrice H. Tohill

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This reprint version of Leaf-mining Insects provides a thorough introduction to the study of leaf-mining insects, a natural history of described species, lists of the leaf-miners and their host food plants and a comprehensive list of the taxonomic and life history literature to that time.

Lepidoptera (butterflies and moths), Coleoptera (beetles), Diptera (true flies), and Hymenoptera (bees and wasps) are insect orders that contain leaf-mining species in the larval form and drawings of their morphology, food plants and leaf mine construction are included. Included is a discussion of leaf-miners of economic importance: *Pegomyia hyoscyami* (beet leaf-miner), *Phthorimaea operculella* (tobacco split-worm) and *Phytomyza chrysanthemi* (chrysanthemum miner), *Phyllotoma aceris* (maple saw-fly leaf miner).

Leaf-mining Insects remains a comprehensive and valuable guide for students, ecologists and entomologists, and provides an overview of the life cycle and ecology of this interesting and often agriculturally important group.

Keywords: Entomology, Chrysomelidae, Curculionidae, leaf mining, biocontrol, Sawfly, horticulture, host plants, Lepidoptera, Diptera

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