

Bartramian Sandpiper Breeds near Guelph, by Herbert Groh; The Flora of the Sand Dunes of Prince Edward County, by A. B. Klugh; Food Habits of the Bullfrog, by E. W. Calvert; The Edible Toadstools—The Smooth Lepiota, by W. A. McCubbin; Weed Migration, by F. Mitchell; An Addition to the List of Toronto Butterflies, by Arthur Gibson, and Notes on the Mammals of the Bruce Peninsula, by A. B. Klugh. A. G.

HOUSE-FLIES AND HOW THEY SPREAD DISEASE.—By C. Gordon Hewitt, D.Sc., Dominion Entomologist. Cambridge; at The University Press, 1912. Price 1s. net. New York Agents: G. P. Putnam & Sons, 2-6 West 45 St., New York.

This volume of 122 pages, one of the series of the Cambridge Manuals of Science and Literature, has recently appeared. It is replete with concise, accurate facts concerning the subject of house-flies and disease, a subject which every day is becoming of more vital interest to every wide-awake citizen who values the health of the community in which he resides. There is no more deadly and rightly much abused insect than the house fly, and such reliable information as is contained in this volume will do much towards making wider and better known the habits of this "potential disease-carrier and constant frequenter of filth."

The volume is divided into two parts. Part I—The Natural History of the House-fly, contains six chapters: I—Introduction; II—The Structure of the Fly; III—The Life-history and Breeding Habits of the House-fly; IV—The Habits of the House-fly; V—Other species of flies found in houses: The Lesser House-fly; The Latrine-fly, The Stable-fly, The Blow-fly or Blue-bottle, The Cluster-fly, and *Muscina stabulans* (which has not yet received a popular name); VI—The Parasites and Natural Enemies of the House-fly: *Empusa muscæ*, Chelifers, mites borne by the House-fly, Thread-worm parasites, Protozoal parasites, and Insect Enemies. Part II.—The Relation of House-flies to Disease, embraces chapters VII to XI. Chapter VII deals with The Carriage and Distribution of Micro-organisms of Flies; VIII—The Dissemination of Typhoid Fever by Flies and their Relation to Summer Diarrhoea; IX—The Relation of Flies to certain other Infectious Diseases: Tuberculosis, Ophthalmia, Cholera, Plague, etc.; X—House-flies in relation to (1) Myasis of the Intestinal and Urinal tracts, and (2) The Spread of Parasitic Worms; XI—Preventives and Control Measures.

In the text there are 19 illustrations, the author being responsible for all with the exception of two. The general appearance, the printing and the paper used in this manual are all excellent, and what will please the lay mind, there is a total absence of all technical terms. A. G.



Gibson, Arthur. 1912. "House-Flies and how they Spread Disease." *The Ottawa naturalist* 26(9), 120–120.

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