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### Bird Behavior

Volume I of this series ("A Population Study of the Song Sparrow," Trans. Linn. Soc. N. Y., Vol. 4, 1937) dealt with the vital statistics of a group of song sparrows in Columbus, Ohio; the present volume deals with the behavior of passerine birds, with the song sparrow as the chief example, and takes the bird from hatching to maturity and through its own parental activities. These two volumes are the result of a thorough and painstaking study over an 8-year period of a song sparrow population in Columbus, Ohio, together with numerous observations in Massachusetts and Oklahoma, and observations on some two dozen hand-reared birds in Austria and in this country. This is probably the most thorough study ever made of a single species of bird.

Following a brief outline of the general principles of animal psychology as they relate to birds (Ch. I), the author in succeeding chapters discusses the various activities of the bird throughout its life: the development and behavior of the young bird (II-VI), the general nature of the song sparrow society (VII), awakening and roosting (VIII), the nature, development, inheritance, and function of song (IX-XI), territory in the song sparrow and other birds (XII-XIII), mating and inter-individual relationships (XIV-XVI), the nest, eggs, and care and defense of the young (XVII-XX), enemy recognition (XXI), innate and learned behavior in the adult bird, and analogies with the behavior of other vertebrates (XXII). At the end of each chapter is a brief summary of the subject matter in the chapter. The appendices (I-V) contain detailed accounts of vocalization, dominance, and pair formation in song sparrows, and a list of species in which injury-feigning has been reported. At the end of the book is a 29-page bibliography and a complete index.

This volume presents a very thorough analysis of bird behavior. A tremendous amount of work, both in the field and with the literature, has gone into the preparation of this volume. Few people have the patience, or the command of the literature (particularly the European literature), to carry on a study of this sort. A vast amount of the author's detailed observations is included, but the material is well organized and clearly presented. A number of questions are raised which should stimulate further study.

This book is essentially a monograph on bird behavior, with particular reference to the song sparrow. We recommend it heartily not only to all ornithologists, but to anyone interested in animal behavior. It is a compendium of information on the subject.—*D. J. Borror.*

**Studies in the Life History of the Song Sparrow. II. The Behavior of the Song Sparrow and other Passerines.** By Margaret Morse Nice. Trans. Linn. Soc. New York, VI, September, 1943. Pp. viii+329, 1 plate, 6 figures, 26 tables; paper bound, 6 x 9 inches. Price, \$2.75.

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### A Picture-Cyclopedia of Flowers

To recognize familiar flowers quickly this small book has its uses. Prepared in the manner of commercial catalogs and by the Horace MacFarland Company, it forms a valuable small work handy for quick reference. There are 350 colored illustrations. A chapter on pests prepared by T. L. Guyton will be read with interest by his Ohio State friends.—*A. E. Waller.*

**Garden Flowers in Color,** by Daniel J. Foley. Macmillan Company, New York, 1943. \$1.98.