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Ardmore

Pennsylvania

BIBLIOGRAPHY OF HAWAIIAN BIRDS SINCE 1890

BY HARVEY I. FISHER

THE war has wrought many changes in the islands of the Pacific Ocean, not the least of which will be its effect on the bird life. Perhaps more naturalists, both professional and amateur, have visited the islands of the Central and Western Pacific in the last four years than in all previous years. Most of these men were in military service, but at the same time they were making observations and collections. Although some of the notes and specimens will probably never be reported, the work done by these individuals may constitute a significant segment of the ornithological research in the Pacific.

Many islands hitherto unknown ornithologically have been visited. Additions to the fauna of other islands have been made. We may expect much clarification of range and taxonomy and the natural history of the various species.

One of the most serious defects of many of the expected publications may well be the absence of any considerable collectanea of literature or specimens. In most cases it has been impossible for any one person to gather specimens from more than a few localities, and in many museums the Pacific is none too well represented by avian specimens suitable for comparative work. Moreover, publications on the Pacific dating from the early exploring expeditions to the present time are scattered in various journals all over the world and will not be available to all who wish to publish their findings.

To these workers bibliographies will be of great aid, and at the same time their publications will be of greater value to other ornithologists if reference is made in them to the literature.

Aside from bibliographies attached to specialized papers there has been little or no attempt to bring together the literature for any island or archipelago in the Pacific. We of the Hawaiian Chain are fortunate in having most, if not all, of the publications on birds up to 1890 collected in the monographs of Rothschild, and Wilson and Evans. Consequently, this present listing includes no papers prior to 1890.

An attempt has been made to annotate very briefly some of the more important and some of the more ambiguous titles. No claim is made that the list is complete; it is not, but part of this is intentional. Popular articles in travel books, magazines and newspapers have, for the most part, been omitted. Likewise, many mimeographed articles are not presented. Although mimeographed, many of the studies in 'The Elepaio,' published by the Honolulu Audubon Society, are included because at present this journal is the only medium of periodical publication within the islands. Articles dealing with migratory birds or birds introduced here are included only if they treat of these birds within the Hawaiian Archipelago, which extends from the island of Hawaii in the southeast to Kure (Ocean) Island in the northwest. Other islands, though under the governmental control of the Territory of Hawaii, are not included.

It is hoped that the 422 titles listed here will be of real value to students of birds in the Pacific, and that any omitted titles will be brought to the attention of the author. Unfortunately, there are 17 titles which I was unable to check.

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ANONYMOUS

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1902. Hawaiian Geese. Paradise of the Pacific, 15 (6): 11.—Breeding in captivity.
1902. Woodpeckers for Hawaii. Paradise of the Pacific, 15 (1): 13.—Recommends Texan, St. Lucas, Nuttall's and Arizona forms.
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1905. Turkeys in Hawaii. Paradise of the Pacific, 18 (3): 20, 1 photo.
1906. Plover's summer food. Paradise of the Pacific, 19 (5): 23.
1907. Domesticating Island quail. Paradise of the Pacific, 20 (4): 18.
1908. Albatross on Laysan Island. Paradise of the Pacific, 21 (11): 15.
1908. Midway Islands. Paradise of the Pacific, 21 (6): 20-21.—Laysan Rails liberated.
1908. Protect the Pheasants. Paradise of the Pacific, 21 (1): 9.
1910. Pieces from the Log of the Thetis. Paradise of the Pacific, 23 (2): 9-12.—References to Leeward Island birds.
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1929. To Save the Ne-ne. Hawaiian Almanac and Annual for 1930: 130.
1930. Senator McNerny and birds. The Friend, 100: 74.—His efforts at importation.
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1937. Exotic birds of Hawaii. Paradise of the Pacific, 49 (12): 29.
1937. Laysan Island—City and County of Honolulu. Paradise of the Pacific, 49 (9): 20, 31.—General material; plume hunters.
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*Department of Zoology and Entomology**University of Hawaii**Honolulu, T. H.*THE SEASONS OF BIRD SONG
THE BEGINNING OF SONG IN SPRING

BY ARETAS A. SAUNDERS

BIRD song is a distinctly seasonal phenomenon. The extent to which birds sing varies considerably from year to year. At the height of the breeding season, when practically every singing species is in full song, little can be learned concerning seasonal variation. But at the beginning and end of the season, and in off seasons, such as fall, the variation is readily noted. It is evidently caused, either directly or indirectly, by weather conditions, and is thus probably cyclical.

For more than thirty years I have kept records of the singing of birds, chiefly in southwestern Connecticut. Such data are necessarily limited by the ability and opportunities of the observer. When one can be in the field daily his observations on the first or last singing of common species are likely to be quite accurate. But if observations are limited to week ends, they cannot be so exact. My spring observations, after April 1, are practically daily, as I made it a habit to be out each morning early before working hours began.

The completeness of data concerning any one species is also lim-