Oreortyx pictus

Lophortyx californicus (Sonoran also)

Dryobates villosus harrisi *

Colaptes cafer collaris

Selasphorus (alleni?)

Contopus richardson'i *

Cyanocitta stelleri carbonacea

The following 'non-committal' species, indicative of no zone in particular, occur mostly in

Cathartes aura

Buteo borealis calurus

Falco sparverius

Corvus americanus

Canadian Junco hyemalis thurberi Piranga ludoviciana Geothlypis tolmiei

Contopus borealis * (higher mountains only)

Cinclus mexicanus

Merula migratoria propingua

Scolecophagus cyanocephalus Hirundo erythrogastra Petrochelidon lunifrons

Finally the species found exclusively in the valley are with few exceptions diagnostic of the Upper Sonoran zone. Such forms are familiar birds throughout this zone in California, and are marked thus *.

Zenaidura macroura. * Common everywhere in the valley. Though this is a wandering bird it breeds most frequently in the Upper Sonoran zone.

Tyrannus verticalis. * A common bird in the open valley.

Aphelocoma californica. * This proved to be an abundant bird, spending much time in young groves of garryana oaks. The bird taken was gorged with spiders. Joseph Grinnell has separated the jay of the Willamette Valley, Oregon, under the subspecific name immanis, on the strength of its exceptionally long tail and somewhat stouter build. The Hoopa bird is clearly californica, as are those from Siskiyou and Lassen counties, which I have examined. other hand a specimen from Klamath Falls, Oregon, is precisely intermediate.

Sturnella neglecta. * Common. (Breeds also in Transition.)

Carpodacus mexicanus frontalis. Rare.

Chondestes grammacus strigatus. * Abundant in open.

Spizella socialis arizonæ. Common in digger pine groves and Ceanothus cuneatus thickets. Pipilo maculatus oregonus. Common.

Pipilo crissalis. * Common, and a characteristic bird of the valley. Zamelodia melanocephala. * Common.

Cyanospiza amæna. * Common, especially in the Ceanothus cuneatus thickets.

Vireo gilvus swainsoni. Very common.

Dendroica æstiva. A common bird among the willow thickets and smilax tangles by the river. Dendroica nigrescens. * Several were observed among the Ceanothus cuneatus and digger pine thickets.

Icteria virens longicauda. * A common and characteristic bird; one continually heard but not often seen. I heard one sing at intervals till late at night, though there was no moon.— WALTER K. FISHER.

Cactus Wrens.—Since the appearance of Mr. Swarth's paper on "The Status of the Southern California Cactus Wren" I have had an opportunity to examine Mr. Anthony's series of Heleodytes. As these, with the entire collection, are to go east and will be lost to western workers I made a hasty study of them, with Mr. Anthony's permission, as being the last opportunity. I sum up my conclusions as follows.

The distribution of affinis is southern Lower California; that of bryanti is central and northern Lower California, blending into couesi (or anthonyi) near the border. In the specimens which I examined more couesi were from south of the border than bryanti from north of it. A male and a female from San Diego I should assign to bryanti.

I feel doubtful of the status of anthonyi Mearns, as I have no skins from Texas for comparison, but, like Mr. Swarth, I am inclined to consider it a synonym of couesi. The Anthony collection includes half a dozen New Mexican examples. A superficial examination did not show much difference in size or shape of bill or in general proportions. I did not have time to make detailed measurements. The separation of the various subspecies seems to rest on coloration. The color differences are mainly as follows.

Affinis: tail with the intermediate rectrices nearly as well barred with white as the outer ones; abdomen with scarcely any fulvous tinge; entire lower surface, from bill to tail, nearly evenly spotted with black, these spots rounded in form; crown light colored, vandyke brown or mummy brown; ground color of back reddish bistre; white stripes of back distinct, linear.

Bryanti: tail nearly as perfectly barred as in affinis; abdomen with a fulvous tinge, intermediate in depth between affinis and couesi; throat with heavier spots, contrasting with the less spotted belly; crown sepia; ground color of back bistre; white stripes of back with a tendency to break up into two sagittate or cuneate spots through invasion of the median part of the blackish parallel borders.

Couesi, (or anthonyi, if distinct from couesi) as found in California: tail with the intermediate rectrices mostly black, the white bars on the inner webs often reduced to one or two white spots; ground color of abdomen and flanks fulvous; chin white; throat heavily spotted with black, sometimes nearly solid black, and strongly contrasting with the scantily spotted belly and flanks, the spots on these parts more or less linear; crown varying from seal brown on the coast (at San Diego) to sepia in the interior; the white stripes on the back in the Californian coast region and in Arizona and New Mexico are broken into spots as in bryanti, while in those from the Colorado Desert region they are linear as in affinis.—Frank Stephens, San Diego, Cal.

Dusky Horned Lark in Lake County.—Mr. A. W. Johnson has recently sent me a specimen of Otocoris alpestris merrilli which he took at Red Hill Ranch near Upper Lake, Lake county, California, November 13, 1893. It was one of a large flock of similar birds which remained in the vicinity about three weeks. Mr. Johnson states that this is the only time that he has ever met with any sort of horned lark in Lake county, and doubtless the flock observed were winter visitants from the northeast. I also have a skin of O. a. merrilli taken by M. P. Anderson at Yreka, California, March 14, 1902.—J. Grinnell, Pasadena, Cal.

THE EDITOR'S BOOK SHELF

THE BIRDS OF FERGUS COUNTY, MONTANA. By P. M. SILLOWAY. Bulletin No. 1, Fergus County Free High School. 8 vo. 78 pages; numerous halftone plates. Lewistown, Mont. 1903.

The Birds of Fergus County, Montana, is really a handbook of the birds to be found in central Montana. An introductory sketch of the topography of Fergus county, with map, is followed by a Partial Bibliography of Montana Birds. Under each species biographical and distribution notes are recorded, with a paragraph on "Distinguishing Features"—a brief description to aid the general reader in recognizing the bird. An analysis of the list, given at the end, shows that thirty species are permanent residents; 101 species summer residents, 31 species migrants, 13 species winter residents or visitors, and 4 other visitors; total 179 species. Numerous halftones of live birds, nests and eggs, by M. J. Elrod and E. R. Warren, add much to the usefulness of this excellent piece of work.

PAPERS FROM THE HOPKINS-STANFORD GALAPAGOS EXPEDITION, 1898-1899. XVI BIRDS. BY ROBERT EVANS SNODGRASS and EDMUND HELLER. From Proc. Wash, Acad. Sci. V, Jan. 28, 1904, pp. 231-372.

In this paper the authors present the ornithological results of their explorations among the Galapagos Archipelago, and 109 species and subspecies are listed, extending through 31 families. Under each species is given pertinent synonomy, range, field observations and often critical notes. Measurements and notes on life colors are also frequently included. Naturally the greatest interest centers about the various species of the three peculiar Galapagos genera, Geospiza, Certhidea and Nesomimus, the accounts of which are particularly full, including description of plumage stages, pterylosis, color of bills, relationship between color of bill and plumage, and maturity, nature of change from one phase of plumage to next—moulting, habits, song, nests and eggs.

In the case of those species which include several races the authors have made an innovation. "A number is given to each species of a genus, and this number is intended to stand, not for the form first named, but for the sum of all the subspecies, where subspecies that compose the species occur, not this number and a letter for each of the other subspecies as in the A. O. U. Check List. Each variety of a species is lettered. Thus: 63, Geospiza fortis consists of 63a, G fortis fortis, 63b, G. fortis fratercula, etc; not 63, Geospiza fortis; 63a G. fortis fratercula." In the text the word "series" follows the species heading, thus: 55. THE GEOSPIZA PROSTHEMELAS SERIES. Cactospiza, Camarhynchus and Cactornis are regarded as subgenera of Geospiza.

The present paper is a very carefully prepared and valuable contribution to our knowledge of the avifauna of the Galapagos.

A REVISION OF THE AMERICAN GREAT HORNED OWLS. By HARRY C. OBERHOLSER. From Proc. U. S. Nat. Mus. XXVII, 1904, p. 177-192.