

density of birds within that community (see Leopold, Game Management, 1937:132).

All in all, there is much in this paper that will interest ornithologists and ecologists, and no student of bird populations can afford to overlook it. Beecher's work is one of the most extensive population studies made in America, and his comparative data on diverse communities, subjected to consistent analysis, is worthy of careful study. Throughout the paper, there is evidence of keen field observation, and the general discussions of nesting factors are replete with thought-provoking ideas.—FRANK A. PITELKA.

A substantial contribution to western ornithology is made by Robert T. Orr in his paper entitled, "A study of the birds of the Big Basin region of California." (*Amer. Midl. Nat.*, 27, 1942:273-337, 16 figs.). The area concerned lies in adjoining parts of San Mateo and Santa Cruz counties and extends from the coast to the red-wood areas eight miles inland. Emphasis is placed on the occurrence of birds in relation to the major biotic associations, and only those species observed by the author are listed. There is no consideration whatsoever of the subspecies of birds involved. In general this omission seems justified in a paper of this kind, although occasionally it leads to confusion where separate races of the same species evidently are involved, one of which is summer resident and the other winter visitant. Difficulty of this kind is most noticeable in the Hermit Thrushes, Savannah Sparrows, Oregon Juncos and White-crowned Sparrows. The days of observation total 176, spread through the seasons, but with scant representation in fall and early winter. Particularly well noted were the birds of the shore line.—ALDEN H. MILLER.

#### MINUTES OF COOPER CLUB MEETINGS

##### SOUTHERN DIVISION

**AUGUST.**—The regular monthly meeting of the Southern Division of the Cooper Ornithological Club was held on Tuesday, August 25, 1942, at 8:00 p.m., in Room 145, Allan Hancock Foundation, Los Angeles, with President Sherwin F. Wood in the chair and 14 members and guests present. Minutes of the Southern Division for July, 1942, were approved as read. The following application for membership was read: E. Alexander Bergstrom, Southern Arizona School, Tucson, Arizona, proposed by W. Lee Chambers.

The resolution recommending that George Willett be elected to honorary membership in the Cooper Ornithological Club in recognition of his outstanding contributions to the science of ornithology and to the club was read for the second time in compliance with the by-laws. A motion for its acceptance was made by W. A. Kent and seconded by H. L. Cogswell. A vote

was then taken and Mr. Willett was declared unanimously elected to honorary membership by this division.

The meeting was then opened to reports on recent observations. W. A. Kent gave a detailed description of a trip made a year ago by himself and Mrs. Kent to Jasper National Park and return, discussing observations on many of the birds they had seen on the trip.

H. L. Cogswell described a bird survey made by him on a 40-acre tract of land near Pasadena. The area was covered principally with chaparral. He enumerated 13 species of nesting birds found there and reported that there were 116 pairs in all.

J. S. Garth reported hearing from our secretary, Jack von Bloeker, stating that he was having a very successful trip in Oregon. Dr. Garth mentioned seeing many Lark Buntings near Gila Bend, Arizona, on a trip last spring. He gave a detailed description comparing the north and south rims of the Grand Canyon and pointing out the difference in elevation existing on the two sides, the North Rim representing the Canadian Life-zone and the South Rim the Transition Life-zone.

George Willett reported seeing many Black-chinned Hummingbirds and gave a resumé of his investigations on the hummingbirds of the Channel Islands made before the Pearl Harbor event.

Dr. S. F. Wood reported a new publication on geese and ducks by T. M. Shortt.

Adjourned.—IRWIN D. NOKES, *Acting Secretary*.

**SEPTEMBER.**—The regular monthly meeting of the Southern Division of the Cooper Ornithological Club was held on Tuesday, September 29, 1942, at 8:00 p.m., in Room 145, Allan Hancock Foundation, Los Angeles, California, with President Sherwin F. Wood in the chair and 54 members and guests present. Minutes of the Southern Division for August, 1942, were approved as read. The following application for membership was read: Roy Leonard Kilby, 1514 Aberdeen Street, Vancouver, British Columbia, Canada, proposed by W. Lee Chambers.

Dr. S. F. Wood reported that he had just received a copy of a new publication, "Some Common Birds of the Los Angeles County Coast," by George Willett, Los Angeles County Museum, Science Series No. 5, Zoology Publication No. 1. Also it was announced that the Cooper Club has just received from the Department of Mines and Resources of Canada a copy of a pamphlet entitled "The Migratory Birds Convention Act and Federal Regulations for the Protection of Migratory Birds."

The President then introduced the speaker of the evening, Roland Case Ross, who presented an interesting talk entitled "Bird Songs, East