

have been substantiated in this study. If one does not know the value of the carrying capacity he cannot know whether a population has been depressed below that value. Therefore, the information given in this book does not impinge upon the controversy over Errington's views in quite the manner the authors suppose, but in all fairness it must be admitted that Errington was not able to measure the food supply either, and he probably would not have arrived at his well-known conclusions if he had studied a situation such as that investigated by the Craigheads. It would appear that the answer to the question whether predation does depress vertebrate populations below the carrying capacity of the environment and, if so, how much so and how often, will not be provided by studies oriented primarily toward predators, with measurements of prey populations for the sole purpose of permitting the estimation of the percentage of the populations taken, but rather by studies oriented toward the relationships between the prey populations and their environmental resources, with predation considered in relation to this. In only such a manner would it seem possible to be able to determine the role of predation in terms of the total ecology of any species.

This book should be read and studied carefully not only by persons interested in the general biology of the birds of prey, but also by anyone interested in predation. The critical nature of this review should not be taken to mean that the book is of little value. In spite of its shortcomings, the study is one of the best available for vertebrate populations and, even more significantly, it demonstrates the possibility of dealing effectively with the pressure of collective predator populations upon all the important prey species. It therefore points the way toward the study of predation as a part of the over-all functioning of the ecological community.—GORDON H. ORIANS.

COOPER SOCIETY MEETINGS

SOUTHERN DIVISION

MAY.—The regular monthly meeting of the Southern Division of the Cooper Ornithological Society was held May 27, 1958, at the Los Angeles County Museum, with Thomas R. Howell, president, presiding.

The following names were proposed for membership: Lt. Cmdr. William G. Lehmann (DC), U.S.N., U.S. Naval Hospital, Oakland, Calif., by John Davis; Miss Kay Binder, 3838 West 61st St.,

Chicago 29, Ill., John Bursewicz, 14 Chapin St., Jamestown, N. Y., Kirk E. Downing, Box 489, Arkansas City, Kans.; Lewyn Edward Geiger, P. O. Box 146, Wellborn, Fla., Winthrop W. Harrington, Jr., 1900 Massachusetts Ave., Lexington 73, Mass., John Henderson Hart, 2700 Verona Rd., Kansas City, Mo., Miss Phyllis Lorraine Hurlock, R.D. 1, Coatesville, Pa., Peter M. Isleib, Jones Hollow Rd., Marlborough, Conn., Miss Hazel Belle Philbrick, 5090 Washington, St. Louis 8, Mo., Bryan Leonard Sage, 11 Deepdene, Potters Bar, Middlesex, England, Allen W. Stokes, Dept. of Wildlife Management, Utah State University, Logan, Utah, Farris S. Swackhamer, Shell Chemical Corp., P. O. Box 335, 1120 Commerce Ave., Union, N.J., Miss Katrina Thompson, 2029 Milford, Houston 6, Tex., Dr. Clifford Tillman, 492 Cherokee Park, Natchez, Miss., Maynard J. Toll, 414 S. Irving Blvd., Los Angeles 5, Calif., Miss Virginia M. Vaden, 4325 Bowser Ave., Dallas 19, Tex., Henry M. Weber, M.D., 82259 Miles, Indio, Calif., Lovett Edward Williams, Jr., Wildlife Research Unit, A.P.I., Auburn, Ala., and Robert J. Williams, Botany Dept., University of Wisconsin, Madison, Wis., all by C. V. Duff; Roger W. Jessup, 5431 West San Fernando Rd., Glendale, Calif., by Ed N. Harrison; Dale Warren Rice, U.S. Fish & Wildlife Service, ½ Navy 3080, Box 1, FPO San Francisco, Calif., by Johnson A. Neff; Stephen C. Bromley, 9359 Gotham St., Downey, Calif., and James R. Northern, Los Angeles County Museum, Exposition Park, Los Angeles 7, Calif., both by Kenneth E. Stager; Oscar M. Root, Brooks School, North Andover, Mass., by Wendell Taber; Herold Cannon, 288 Lester Ave., Oakland 6, Calif., Mrs. Mildred V. Davies, 1019 W. 23rd St., Upland, Calif., William Harding, 526 S. Van Ness, Santa Ana, Calif., and Neal G. Smith, 1751 E. 29th St., Brooklyn 27, N.Y., all by Jack C. von Bloeker, Jr.; Julius J. Keil, 3347 14th St., Long Island City 6, N.Y., and Jorge A. Ibarra, Museo Nac. de Historia Natural, Salon No. 2 La Aurora, Guatemala City, Guatemala, both by C. V. Duff.

Mr. John Wintersteen of the Department of Zoology, U.C.L.A., showed his excellent colored motion picture, "East African Safari."—DOROTHY E. GRONER, *Secretary*.

SEPTEMBER.—The regular monthly meeting of the Southern Division was held September 20, 1958, at the Los Angeles County Museum, with Thomas R. Howell, president, presiding.

The following names were proposed for membership: Edward M. Chappell, P. O. Box 1085,

Escondido, Calif., Joseph R. Jehl, Jr., 385 Grove St., Clifton, N.J., Mrs. T. S. Kimball, 1250 N. Everett St., Glendale 7, Calif., Harvey C. Kirk, 1605 So. 5th St., Alhambra, Calif., Fant W. Martin, 1078 Crescent Dr., Logan, Utah, Bertram George Murray, Jr., 807 Mountain Ave., Bound Brook, N.J., Art Schaffner, 170 Laurel St., Buffalo 8, N.Y., John Kenneth Taylor, 128 Charles St., New York 14, N.Y., Mrs. Jephtha H. Wade, 251 Old Billerica Rd., Bedford, Mass., and Peter W. Westcott, Linden Lane, Chatham, N.J., all by C. V. Duff; Dr. Roderich Thun, Falkstrasse 16, Innsbruck, Austria, by Don R. Eckelberry; Roger W. Jessup, 5431 W. San Fernando Rd., Glendale, Calif., Anthony Thormin, 672 So. La Fayette Park Pl., Los Angeles 57, Calif., and James K. Vardaman III, 133 So. Lucerne Blvd., Los Angeles 4, Calif., by Ed N. Harrison; Nicholas E. Collias, Dept. of Zoology, University of California, Los Angeles 24, Calif., and Dr. Malcolm Stephen Gordon, Dept. of Zoology, University of California, Los Angeles 24, Calif., both by Thomas R. Howell; David L. Patrick, Rt. 5, Box 241, Tucson, Ariz., by Joe Marshall; Wm. I. Harrison, 1525 Sixth Ave., Grinnell, Iowa, by Frank A. Pitelka; William R. Goodge, Dept. of Gross & Neurological Anatomy, West Virginia University Medical School, Morgantown, W. Va., by Frank Richardson; Charles William Erickson, 16258 Runnymede, Van Nuys, Calif., by Kenneth E. Stager; Mrs. Dorothy E. Hunt, 4111 Trout Gulch Rd., Aptos, Calif., by Leland Stallcup; Lester R. Badger, Rt. 1, Excelsior, Minn., Lawrence R. Smith, 6121 Bellingham Ave., No. Hollywood, Calif., and Terry A. Vaughan, Museum of Natural History, University of Kansas, Lawrence, Kans., by J. C. von Bloeker, Jr.

Arnold Small gave the following recent observations: September 1, waters south and east of San Clemente Island, 24 Black-footed Albatross, 1 Pale-footed Shearwater, 375 Pink-footed Shearwater, 40 Sooty Shearwater, 75 Leach Petrel, 1200 Black Petrel, 20 Ashy Petrel, 40 plus Least Petrel, 1 Long-tailed Jaeger, 4 Pomarine Jaeger, 1 Parasitic Jaeger, 30 Sabine Gull, 40 Arctic Tern; September 6, near Oxnard, 1 Solitary Sandpiper, 26 White-tailed Kite; September 13, 30 miles west of Point Loma, 2 Manx Shearwater, 6 Least Petrel.

Dr. Nicholas E. Collias of the Zoology Department, U.C.L.A., presented a talk on "Behaviour of the Black-headed Weaver-bird of Africa."—DOROTHY E. GRONER, *Secretary*.

OCTOBER.—The monthly meeting of the Southern Division was held October 28, 1958, in the Life Sciences Building, U.C.L.A., with Thomas R. Howell presiding. The following names were proposed for membership: Warren Rook, % William Tell Motel, 2509 Santa Monica Blvd., Santa Monica, Calif., and Kirby Wolfe, 267 Marquita Ave., San Clemente, Calif., both by Don Bleitz; John J. McCoy, 8618 Emerald Isle Cir. S, Jacksonville 11, Fla., by Pierce Brodkorb; Fred Waters Bone, 603 Yale Ave., Riverview Hts., New Brunswick, Canada, J. W. O'Neill, 9 Wyngaarde Ave., Piedmont 11, Calif., and Paul Slud, Museum of Zoology, University of Michigan, Ann Arbor, Mich., all by C. V. Duff; Einar Helmersson Bengt, Box 105, Pixbo, Sweden, and George Puvalic, 52-A Veterans Administration Hospital, Sepulveda, Calif., both by Frank A. Pitelka; Theodore A. Rehm, P.O. Box 367, Scottsdale, Ariz., and Theodore Tice, 3924 Rosemead Blvd., Pico Rivera, Calif., both by Jack von Bloeker, Jr.

The meeting then adjourned for members to attend a lecture by Dr. W. H. Thorpe of the Department of Zoology, Cambridge University, and President, British Ornithologists' Union. Dr. Thorpe's lecture, "The Study of Song," was given under the auspices of the Lida Scott Brown Foundation, U. C. L. A.—DOROTHY E. GRONER, *Secretary*.

NORTHERN DIVISION

NOVEMBER.—The monthly meeting of the Cooper Ornithological Society, Northern Division, was held on Thursday, November 6, 1958, on the Berkeley campus of the University of California. Dr. John Davis presided. The following names were proposed for membership: Mr. M. Konishi, International House, Berkeley, by Frank A. Pitelka, and Mr. Joseph M. Delvin, Philadelphia, Pa., by Don R. Eckelberry.

President Davis reported briefly on the 75th Anniversary meeting of the American Ornithologists' Union which was held in New York City during mid-October.

Among field observations reported, Mrs. Junea W. Kelly remarked upon a great invasion of Golden-crowned Kinglets at Ross and Golden Gate Park. Dr. Davis also commented upon an influx of kinglets at the Hastings Natural History Reservation in recent days.

Guest speaker for the evening was Mrs. Junea W. Kelly, who gave a vivid account of her experiences and impressions at the Twelfth International Ornithological Congress, Helsinki, Finland, in June of 1958.—ROBERT I. BOWMAN, *Secretary*.