

PROCEEDINGS OF THE WILSON ORNITHOLOGICAL CLUB

By Lawrence E. Hicks, Secretary

The Twenty-first Annual Meeting of the Wilson Ornithological Club was held at St. Louis, Missouri, on December 29-30-31, 1935, in connection with many other organizations affiliated with the American Association for the Advancement of Science. The business and program sessions were held in the Alexander Room of the Melbourne Hotel. Short business sessions were held Monday and Tuesday mornings. The four program sessions Monday and Tuesday, morning and afternoon, and the banquet program session, included thirty-eight papers, slide talks, and movie presentations. The maximum attendance at each session was 66, 92, 72, 96, and 70.

Tuesday evening the Wilson Ornithological Club Annual Dinner was held at the Sayman Town Club, seventy being present. The chairman of the local committee, Mr. A. F. Satterthwait, served as toastmaster. Miss Lillie R. Ernst, Principal of Blewett High School, gave the address of welcome, to which President Josselyn Van Tyne responded for the Wilson Ornithological Club. A score of those present were introduced or called upon for brief remarks. Following this the group adjourned to the auditorium for the evening program session. Mr. H. M. Kennon, Ornithologist of the St. Louis Zoo, gave a lecture on "The Hummingbirds", with a fascinating account of experiences with a score of captive Ruby-throats kept at the Zoo. Professor A. E. Shirling of Teachers College, Kansas City, gave a beautifully illustrated lecture on "Some Habits and Habitats of Birds in the Rocky Mountain National Park". Mr. Albert F. Ganier of Nashville, closed with a splendid illustrated discourse on "Rare Nesting Birds of Tennessee".

Monday evening, and other free time during the three days of the meetings, was utilized by those present to hear the address of the retiring president of the A. A. A. S. or to visit the science exhibits, the Municipal Auditorium, the St. Louis Parks, Forest Park with the Zoo and its splendid collections of live birds, reptiles, and primates, the Jefferson Memorial with the Lindbergh trophies, the Art Museum, the Educational Museum, the arboretum of Tower Grove Park, the Missouri Botanical Garden (Shaw's Garden), other points of interest in St. Louis, or in attending sessions of some of the sections of the A. A. A. S. at Washington University.

Sunday, December 29, was spent in field work by thirty-two members. The party motored from the hotel to the west of St. Louis to Creve-Coeur Lake and the interesting adjacent lowlands, then to Horseshoe Lake on the Illinois side. After noon luncheon at Garavellis, the group split, some to view the Aviary at the Zoo, others to continue field work in areas north of the city. The heavy snow, temperature of about 20 degrees, and the light wind, kept the list seen down to 35 species and 931 individuals. The list included Rough-legged Hawk, Barred Owl, Pileated Woodpecker, Yellow-bellied Sapsucker, Brown Creeper, Mockingbird, Robin, Bluebird, Myrtle Warbler, European Tree Sparrow, Red-winged Blackbird, Towhee, Fox Sparrow, and White-throated Sparrow.

ATTENDANCE

The 1935 meeting was one of the most successful in the history of the organization despite the fact that the attendance was smaller than for any of our last six meetings, save one. The total registration (106) was low due to the small local attendance and the adverse weather conditions which prevented many out-of-town visitors from using auto transportation. However, eighty-three were present from outside of St. Louis and sixty-five from outside of Missouri. A large number, particularly local visitors, failed to register. Additional unregistered visitors attended the annual dinner or participated in the field trip.

Forty eight universities, colleges, museums, and other institutions were represented in the attendance at the St. Louis meeting. These included: Cornell University, Ohio State University, University of Illinois, University of Wisconsin, University of Missouri, George Peabody College, University of Iowa, Iowa State College, University of Nebraska, Morningside College, Otterbein College, University of Michigan, Western Reserve University, Emergency Conservation Committee, National Association of Audubon Societies, Hawk and Owl Society, Missouri Division of Conservation, Mississippi Department of Fish and Game, Michigan Museum of Zoology, Chicago Academy of Sciences, United States Biological Survey, National Park Service, United States Soil Conservation Service, University of Virginia, University of Tennessee, Lebanon Valley College, Bowling Green College, St. Louis Zoological Gardens, North Dakota State Teachers College, North Dakota Agricultural College, Ashville Teachers College, United States Bureau of Entomology, St. Louis University, St. Louis Educational Museum, Christian Brothers College, St. Louis Bird Club, Webster Groves Nature Club, Mayo Clinic, Michigan Western State College, Louisiana State University, Purdue University, Wheaton College, Illinois Natural History Survey, Missouri Biological Survey, Illinois State Normal College, Principia College, American Nature Study Society.

BUSINESS SESSIONS

Short business sessions were held Monday and Tuesday mornings, President Van Tyne presiding.

The minutes of the 1934 meeting were approved without being read, since they had previously been published in the WILSON BULLETIN (Vol. XLVII, No. 1, pp. 81-95). The Secretary's and Treasurer's reports for the year 1935 were next read and approved. The Secretary's report indicated that during the past year forty-eight members had assisted in the membership campaign by making nominations resulting in the securing of one or more members each. A list was presented of the 141 new members secured during 1935, and previously confirmed by the electoral board. These were elected to membership. The report showed that there had been a net gain of 63 members in 1935, resulting in a total membership of 784, which exceeds by nine members the previous high in membership total established in 1930.

The Secretary also presented a bundle of 219 letters received from members in thirty-six states, each of which, though unable to attend the St. Louis meeting, had written a letter acknowledging the meeting notice, expressing regret at being unable to attend, and sending best wishes for the success of the meeting. Excerpts were read from a number of them. The receipt of so many unsolicited letters indicates that the great bulk of the Wilson Ornithological Club membership consists of persons actively interested in furthering the ornithological studies

and the educational and conservation work sponsored by the organization. The members assembled paid tribute to these absent members and the Secretary expressed his thanks for the many encouraging and stimulating news letters received from the members throughout the year, and voiced his regret at being unable to reply except by brief delayed notes or through the pages of the WILSON BULLETIN.

The Editor next presented a carefully prepared report of his activities to the group, giving some conception of the many duties and difficulties involved in the office, the present status of the WILSON BULLETIN, and recommendations for the coming year. In the absence of the Librarian, his report was read. In approving the Treasurer's report, the group unanimously passed a resolution commending retiring Treasurer Rosene for his splendid work during the trying economic conditions of his six-year term of office.

The following temporary committees were appointed by the President: Nominations, Mrs. H. J. Taylor, Jesse M. Shaver; Resolutions and Amendments, A. F. Ganier, Leonard B. Nice, Edith R. Force; Auditing, Myron H. Swenk and S. E. Perkins, III.

The committee on Resolutions offered the following resolutions, all of which were adopted by motion:

Resolved, that the Wilson Ornithological Club commends the United States Biological Survey for its policy of shortening the open season and restricting the kill of waterfowl during the 1935 season.

Resolved, that the Wilson Ornithological Club go on record as emphasizing the principle that the wild life resources of the United States, including game species, belong to the whole people and not alone to hunters or any other special group, and that game management practices and hunting regulations should be fostered which will not endanger the breeding stock of any species, and which where desirable will tend to increase it.

Resolved, that the members of the local committee, A. F. Satterthwait, Lillie R. Ernst, Elizabeth Golterman, Clara Heising, D. M. Hetler, also the officers of the A. A. A. S., the management of the Melbourne Hotel, Ann Loftus and Mrs. A. F. Satterthwait, and the St. Louis Chamber of Commerce, be commended for their part in the arrangements for a splendid annual meeting at St. Louis.

Resolved, that the officers of the Wilson Ornithological Club, particularly those three upon which such a heavy burden falls, the Editor, Secretary, and Treasurer, be thanked for their efforts of the past year in carrying on so splendidly the work of the organization.

The Committee on Nominations offered the following report:

President—Josselyn Van Tyne, Museum of Zoology, Ann Arbor, Michigan.

First Vice-President—Alfred M. Bailey, Chicago Academy of Sciences, Chicago, Illinois.

Second Vice-President—Margaret M. Nice, Columbus, Ohio.

Secretary—Lawrence E. Hicks, Ohio State University, Columbus, Ohio.

Treasurer—S. E. Perkins, III, 709 Inland Building, Indianapolis, Indiana.

Councillors—Lynds Jones, Oberlin, Ohio.

A. F. Ganier, Nashville, Tennessee.

W. M. Rosene, Ogdon, Iowa.

The report was adopted by motion, and the Secretary was instructed to cast a unanimous ballot for the nominees. This being done all were declared elected for the coming year.

The concensus of opinion as expressed by the officers, councillors, and members present, and the replies from the questionnaire in the annual letter, was that the 1936 Annual Meeting of the Wilson Ornithological Club should be held at Chicago, Illinois, sometime during the month of October or November. More detailed announcements will be made later. Following the completion of the general program the session adjourned *sine die*.

PROGRAM OF PAPERS

The papers, with brief abstracts, are listed below in the order presented, which differs somewhat from the previously announced program. All meetings were held in the Alexander Room of the Melbourne Hotel, except for the Banquet Session, which was held at the Sayman Town Club.

MONDAY MORNING SESSION

1. A Study of the Nesting of the Common Coot (*Fulica americana*). (10 minutes). George O. Hendrickson, Iowa State College, Ames, Iowa.

An analysis of ecological conditions, life history studies, and mortality factors found during the observation of twenty Coot's nests in two marshes of northern Iowa in June and July of 1935.

2. The Future of Waterfowl Protection. (10 minutes). Irving Brant, St. Louis Star, St. Louis, Mo.

A critical analysis of the North American waterfowl resources of today with definite recommendations as to policies, protection, and management procedures which should best serve to perpetuate these species.

3. Food Habits of Buteo Hawks in North Central United States. (15 minutes). Paul L. Errington, Iowa State College, Ames, Iowa, and Walter J. Breckenridge, University of Minnesota, Minneapolis, Minn. (Read by Robert B. Gordon).

4. Resident Game Birds of Missouri. (30 minutes). (Lantern). Rudolf Bennitt, University of Missouri, Columbia, Mo.

A summary of a comprehensive game and fur survey of the State made by W. O. Nagel and the speaker in 1934-1935 under the auspices of the National Park Service E. C. W. Only breeding species were considered, the most important of these being the Bob-white, Ruffed Grouse, Prairie Chicken, Ring-necked Pheasant, Wild Turkey, and Mourning Dove. Subjects discussed included the present status of each, historical influences, releases of stock, general methods, objectives, estimated population of each species today, annual kill, and drouth effects.

5. Education of Children and Adults in Bird Study. (10 minutes). Edith R. Force, Tulsa High School, Tulsa, Oklahoma.

A synopsis of proven methods of education in bird study and an inspirational appeal for recognition of the value of, and necessity for, more extensive activities in this direction.

6. Home Life of Some Far Northern Birds—the Churchill Region. (30 minutes). (Lantern). A. Marguerite Heydeweller, Cornell University, Ithaca, N. Y.

A pictorial account of nesting and life history studies of Tree Sparrows, Redpolls, Longspurs, Shorebirds, Gulls, Jaegers, Ptarmigans, Warblers, and Terns during two summers in the Hudson Bay region.

MONDAY AFTERNOON SESSION

7. Ornithology in Scientific Literature. (15 minutes). O. A. Stevens and H. Gordon Heggeness, North Dakota State College, Fargo, N. D.

The amount of published material is too large and too often improperly organized. Ornithology is peculiar in the mass of detail and in the large

quantity of borderline scientific-popular material in its literature. Specific recommendations are: cooperation between workers, more editorial supervision, segregation of scientific and popular material, and suppression of, or collection of, short items.

8. Building Conservation for the Future. (15 minutes). Roger T. Peterson, National Association of Audubon Societies, New York, N. Y.

Specific recommendations for conservation of valuable wild life resources, with suggestions as to how various conservation organizations and individuals can make definite contributions to the task at hand.

9. The Cowbird as a Subject of Study. (20 minutes). Margaret M. Nice, Columbus, Ohio.

The Cowbird is not specialized for parasitism as is the European Cuckoo, for its eggs are relatively small, its incubation period is no shorter than that of its relatives, and young Cowbirds do not evict their nest mates. On Interpont (in Columbus, Ohio) Cowbirds are gregarious during the nesting season and have laid in 26 per cent to 77.7 per cent of the early Song Sparrow nests studied during a five year period. Adult Cowbirds removed 5.7 per cent of the Song Sparrow eggs, and young Cowbirds crushed or starved 3.5 per cent of the Song Sparrow young. However, Cowbird eggs have not succeeded as well as those of their hosts, for only 30.7 per cent of the former while 35.8 per cent of the latter were fledged. In 1930-1931 there was one female Cowbird to about 11.5 pairs of suitable hosts, but in 1934 and 1935 there was one female to 8.6 pairs of suitable hosts.

10. Presentation of and Remarks by Ira N. Gabrielson, Chief, United States Biological Survey, Washington, D. C.

A review of the Survey's program for the coming year with a narration of the many facts and events of ornithological interest.

11. Sex Ratio and Mortality Studies of English Sparrow Nestlings. (15 minutes). (Lantern). Leon J. Cole and G. W. Woolley, University of Wisconsin, Madison, Wisc.

Sex was determined on 746 sparrow nestlings and 69 embryos. Of the total, $48.8 \pm .017$ per cent were males, which is not a significant deviation from equality. However, there appears to be a definite tendency for a higher percentage of males in late June and early July than earlier or later in the season. The average number of nestlings in 279 nests was 2.7. There is a high mortality of nestlings as age increases, but no evidence that this mortality is differential with respect to sex.

12. A Behavior Study of an Eastern Meadowlark. (12 minutes). (16 mm. motion pictures). Thomas B. Magath, Mayo Clinic, Rochester, Minn.

A pictorial record of a wild female Meadowlark which came with young and procured food at the station, or even from the hand, for two seasons.

13. Episodes in the Life of Audubon in Indiana. (20 minutes). Samuel E. Perkins, III, Indianapolis, Ind.

A review of various trips taken by the naturalist within the State of Indiana, covering the Ohio River country and southern Indiana north to Vincennes. He visited with General George Rogers Clark, with Rafinesque, and with the scientific group at New Harmony, on one or several occasions.

14. Wisconsin Pioneers in Ornithology: Thure Kumlien and Ludwig Kumlien. (30 minutes). (Lantern). Mrs. H. J. Taylor, Berkeley, Calif.

A biographical account of Thure Kumlien with special consideration of the ornithological work by himself and his son, Ludwig Kumlien.

TUESDAY MORNING SESSION

15. Checking Field Observations by Studies of Confined Birds. (10 minutes). George B. Happ, Principia College, Elsau, Illinois.

16. Hybridism in the Genus *Hedymeles* (Grosbeaks). (15 minutes). Myron H. Swenk, University of Nebraska, Lincoln, Nebr.

A discussion, illustrated by distribution maps and paintings, of hybridism between the Rose-breasted Grosbeak and the Black-headed Grosbeak in the Mississippi-Missouri basin.

17. A Melanistic Phase in the Wilson's Snipe. (10 minutes). Josselyn Van Tyne, University of Michigan, Ann Arbor, Mich.

Exhibit of a melanistic specimen of the Wilson's Snipe taken in Michigan, with comments on the parallel case of the "*sabini*" phase of the Common Snipe (*Capella gallinago gallinago*) of the British Isles.

18. Seasonal Sex Characters in African Weaver Finches. (20 minutes). (Lantern). Emil Witschi, University of Iowa, Iowa City, Iowa.

An experimental analysis of the factors (genetical and hormonal) which control the assumption of breeding and of eclipse plumages in finches, especially indigo buntings, and African weaver finches. Discussion of the bearing of these results on the problem of the evolution of hen and cock plumage in birds.

19. Nesting Habits of the Tree Sparrow. (20 minutes). (Lantern). A. Marguerite Heydeweiller, Cornell University, Ithaca, N. Y.

A summary of the life history of this species as learned from observations on individuals marked with feather plumes in the Churchill region of Canada.

20. Some Aspects of Bird Population Problems. (20 minutes). Margaret M. Nice, Columbus, Ohio.

Three scientists are working out theories of animal populations by means of mathematical calculations, namely, V. Volterra, S. A. Severtzoff, and A. J. Nicholson. Severtzoff contends that populations tend to increase as fast as they can and then are decimated by a plague, either a biotic or epidemic disease. Nicholson emphasizes the "balance of populations", and believes that competition is the controlling factor. The theories of these two men were discussed and compared with the author's findings in a seven year study of a population of Song Sparrows.

21. A Preliminary Report on a Comparative Study of the Leg Muscles of Birds. (20 minutes). (Lantern). George E. Hudson, University of Nebraska, Lincoln, Nebr.

Avian myology is a much neglected field. The only leg muscles that have been seriously investigated from a comparative standpoint are the thigh muscles and certain flexor tendons of the foot. A study of several species of Buteonid hawks and falcons indicates that these two groups differ radically in their musculature. The flycatchers and swallows agree in one respect that sets them off from the other Passeriformes examined. These points must be investigated in many more forms before definite conclusions can be reached.

22. Reproductive Activities in the Domestic Pigeon. (20 minutes). (35 mm. motion pictures). Leon J. Cole, University of Wisconsin, Madison, Wis.

This film illustrated the nesting of the domestic pigeon, including egg laying, incubation and rearing of the young, and showing particularly the method of regurgitation by which the young are fed.

TUESDAY AFTERNOON SESSION

23. Observations on the European Starling. (5 minutes). Mrs. Howard S. Benedict, Shaker Heights, Ohio.

Close observation of a male Starling at Mrs. Benedict's home in Shaker Heights, Ohio, in June, 1935, proved him to be quite a mimicker of several of our common birds, including the Blue Jay, Bob-white, Brown Thrasher, Cardinal, Catbird, House Wren, Meadowlark, Phoebe, Robin, and Song Sparrow. These songs were easily recognized. Other songs uttered were doubtless in imitation of still other species.

24. Behavior Studies of the Tufted Titmouse at Feeding Stations. (15 minutes). R. D. Book, Corning, Ohio.
The author maintained a feeding station in a natural park for twenty-five years. Tufted Titmice came to know him and fed from his hand. These birds collect in clans in the winter. One year a one-legged Titmouse appeared in one of the clans. When spring came this bird was unable to secure a mate. After a week or two of unsuccessful search it was accepted into the company of the mated pair which claimed the territory. It stayed with them summer and winter, attending them closely day and night. After this experience the unattached bird found a mate in February of the next year. A little later they departed together, and were not seen again. Titmice stay in one territory for about three years. With the influx of new birds they leave or are driven away.
25. The Significance of the Ornithological Research Collection. (20 minutes). Josselyn Van Tyne, University of Michigan, Ann Arbor, Mich.
An analysis of the ends which are served by ornithological research collections with remarks on certain current misconceptions concerning them.
26. Observations on the Life History and Food Habits of the Great Horned Owl. (20 minutes). (Lantern). Frederick M. Baumgartner, Cornell University, Ithaca, N. Y.
Numerous nest studies on this species near Ithaca were summarized in charts and tables.
27. Notes on the Owls of Iowa. (20 minutes). (Lantern). W. M. Rosene, Ogden, Iowa.
A report by means of lantern slides of numerous nest studies of owls. Considerable ingenuity was shown in securing photographs of nests in tall trees.
29. Birds of Protected Areas—Bear River Marshes, Rainy Sanctuary, and the Yellowstone. (45 minutes). (16 mm. motion pictures). Alfred M. Bailey, Chicago Academy of Sciences, Chicago, Ill.

TUESDAY EVENING SESSION

30. The Hummingbirds. (25 minutes). H. M. Kennon, St. Louis Zoo, St. Louis, Mo.
31. Some Habits and Habitats of Birds in the Rocky Mountain National Park. (30 minutes). (Lantern). A. E. Shirling, Kansas City Teachers College, Kansas City, Mo.
32. Rare Nesting Birds of Tennessee. (20 minutes). (Lantern). Albert F. Ganier, Nashville, Tenn.

The following papers were read by title:

33. Homing Instincts of Wild Birds. William I. Lyon, Waukegan, Ill.
34. Further Notes on the Protocalliphora, Parasites of Nestling Birds. Edward S. Thomas, Ohio State Museum, Columbus, Ohio.
35. Thirty-five years of Bird Migration in Northern Ohio. Lynds Jones, Oberlin, Ohio.
36. Relation of Peck Dominance to Maize Running Ability and Reproduction in the Canary (*Serinus canarius*). Hurst Shoemaker, University of Chicago, Chicago, Ill.
37. Measurements of Animal Populations. Lawrence E. Hicks, Ohio State University, Columbus, Ohio.
38. Coloration of Lantern Slides. Slide Examples Including Pictures of the Ivory-billed Woodpecker in Louisiana. George M. Sutton, Cornell University, Ithaca, N. Y.

REGISTER OF ATTENDANCE AT THE ST. LOUIS MEETING

From CALIFORNIA: Mrs. H. J. Taylor, Berkeley. From COLORADO: Ralph B. Swain, Fort Collins. From ILLINOIS: A. M. Bailey, Roy V. Kommarek, Earl G. Wright, Chicago; George B. Happ, Elsau; Mabel Spenser, Granite City; H. J. Long, George E. Moreland, Greenville; Fremont Arbeiter, Jacob; John E. Fraley, Normal; George E. Ekblaw, Ralph E. Yeatter, Urbana; J. Clifford Stickney, Wheaton. From INDIANA: S. E. Perkins, III, Indianapolis; M. L. Fisher, Charles R. Jordan, R. E. Jordan, L. A. Test, West Lafayette. From IOWA: Logan J. Bennett, George O. Hendrickson, Hugo E. Press, Ames; Lillian Serbousek, Myra G. Willis, Cedar Rapids; Emil Witschi, Iowa City; W. M. Rosene, W. M. Rosene, Jr., Ogden; Mary L. Bailey, Ruth B. McDonald, T. C. Stephens, Sioux City. From KANSAS: Gladys Beck, Kansas City. From KENTUCKY: Mabel Slack, Louisville. From LOUISIANA: O. W. Rosewall, Baton Rouge. From MICHIGAN: F. J. Hinds, Kalamazoo; Josselyn Van Tyne, Ann Arbor. From MINNESOTA: T. B. Magath, Rochester. From MISSISSIPPI: Fannye A. Cook, Jackson. From MISSOURI: L. E. Dennig, Jack Stupp, Clayton; Rudolf Bennitt, John A. Cameron, Columbia; A. E. Shirling, Kansas City; Clara J. Beerman, Gertrude E. Maull, Kirkwood; Angelica Frisch, Jeannette Schrage, Oran; E. R. Thro, St. Charles; J. O. Ballard, Mary B. Birkichs, Irving Brant, Adele Christ, Arthur Christ, Louis Dougan, L. R. Ernst, Alma Fletcher, Elizabeth Golterman, Lucile Hanna, Gretcher M. Happ, Clara Heising, Albert A. Henize, H. M. Hinnon, Lonnie Laird, Hubert Lewis, Anne Loftus, Amelia Meissner, A. M. Obrecht, Mildred Widmann Phillips, Ray S. Snider, Glenna Spencer, Louis M. Weber, Laura E. Whelfrley, St. Louis; Cora Shoop, Steelville; Mrs. Maud C. Mattinger, Warrensburg; Sterling P. Jones, Charlotte Manger, James Manger, Mrs. J. H. Manger, Mr. and Mrs. A. F. Satterthwait, Webster Groves. From NEW YORK: Robert F. Hart, Buffalo; F. M. Baumgartner, Ithaca; R. T. Peterson, New York City; A. Marguerite Heydweiller, Rochester. From NORTH CAROLINA: Ethel B. Finster, Ashville. From NORTH DAKOTA: H. Gordan Heggeness, Fargo; Perna M. Stine, Minot. From NEBRASKA: Mr. and Mrs. L. M. Gates, George E. Hudson, Mr. and Mrs. Myron H. Swenk, Lincoln. From OHIO: E. L. Moseley, Bowling Green; Mrs. H. S. Benedict, Compton Crook, Cleveland; Robert B. Gordon, Lawrence E. Hicks, Leonard B. Nice, Margaret M. Nice, Raymond Osborne, John H. Schaffner, Columbus; R. D. Book, Corning. From OKLAHOMA: Edith R. Force. From PENNSYLVANIA: V. Earl Light, Annville. From TENNESSEE: W. K. Butts, Chattanooga; Albert F. Ganier, Jesse M. Shaver, Nashville. From VIRGINIA: John B. Calhoun, University. From WASHINGTON, D. C.: Paul Bartsch, H. C. Bryant, Ira N. Gabrielson. From WISCONSIN: L. J. Cole, G. W. Woolley, Madison.

SUMMARY OF ATTENDANCE: California, 1; Colorado, 1; Illinois, 12; Indiana, 5; Iowa, 11; Kansas, 1; Kentucky, 1; Louisiana, 1; Michigan, 2; Minnesota, 1; Mississippi, 1; Missouri outside of St. Louis, 18; St. Louis, 24; New York, 4; North Carolina, 1; North Dakota, 2; Nebraska, 5; Ohio, 10; Oklahoma, 1; Pennsylvania, 1; Tennessee, 3; Virginia, 1; Washington, D. C., 3; Wisconsin, 2. Total attendance, 112. Total outside of St. Louis, 88. Total outside of Missouri, 70. Maximum number at each program session: Monday morning, 66; Monday afternoon, 92; Tuesday morning, 72; Tuesday afternoon, 96. Number on field trip, 32. Number at Annual Dinner, 70. Number of papers listed on the program, 38.

REPORT OF THE SECRETARY FOR 1935*

To the Officers and Members of the Wilson Ornithological Club:

During the past year, an intensive campaign for new members was continued by the Secretary, in an attempt to bring a halt to the steady decrease in number of members, which has been the general rule in our own organization as well as in most others, during these last five years of turbulent economic conditions. This objective has now been accomplished. It is a great pleasure to report that our organization is now considerably larger than a year ago.

The Secretary solicited more than 1450 membership prospects during the past year, in addition to sending out more than 1240 other letters in the course of his regular duties. Members of the Club gave splendid assistance by sending in numerous names of prospective members for solicitation. Our membership is especially urged during the coming year to attempt to acquaint friends with the benefits of the organization and forward to the officers the names of all membership prospects. We will do the rest.

The membership campaign has been quite successful. In 1932, 113 new members were secured, in 1933, 114, and in 1934, 112. In 1935, 141 new members were added to the rolls. These 141 new members were: Sustaining, 1; Active, 22; and Associate, 118. The new members were distributed through thirty-seven states and provinces: Missouri, 16; Kentucky and Illinois, 10 each; Ohio, Michigan, and New York, 9 each; Virginia, 8; Iowa, Massachusetts, and Minnesota, 5 each; Wisconsin, Pennsylvania, Ontario, Texas, and Tennessee, 4 each; Indiana, Arizona, and Georgia, 3 each; New Jersey, California, Oklahoma, North Carolina, Kansas, Washington, and Wyoming, 2 each; and Louisiana, Arkansas, British Columbia, Montana, Maryland, Nebraska, North Dakota, Oregon, South Dakota, Florida, Delaware, and Finland, 1 each.

Disregarding some duplications in nominations, the various members responsible for the applications of new members, were as follows: Lawrence E. Hicks, 126; T. C. Stephens, 11; Mabel Slack, 8; W. M. Rosene, 6; A. F. Satterthwait and Frank Blanchard, 4 each; Charles J. Spiker and Lyndon L. Hargrave, 3 each; the following nine persons 2 each: M. G. Lewis, J. M. Shaver, Lucy P. Kearns, L. Irby Davis, M. M. Nice, Gordon Wilson, Gordon W. Jones, Mrs. W. Bird Rice, and A. M. Bailey; and the following thirty-one persons 1 each: Frederick H. Test, J. W. Aldrich, A. F. Ganier, J. E. Patterson, Edith R. Force, O. A. Stevens, E. L. Knapp, Sidney K. Eastwood, R. W. Sheppard, Dora Moore, G. M. Cook, Donald W. Douglass, Winton Weydemeyer, Clara M. Heising, S. A. Eliot, Jr., Lawrence H. Walkinshaw, John J. Stophlet, Lawrence Bowman, Delos H. Johnson, Francis M. Uhler, Fred R. Zimmerman, J. Van Tyne, L. W. Wing, S. E. Perkins, III, B. C. Cain, W. C. Starrett, W. B. Taber, Jr., Carl W. Rahe, David Damon, Mrs. W. M. Dawley, and Otto M. Creary.

*Revised to the end of December, 1935.



FIG. 9. ALFRED M. BAILEY
First Vice-President



FIG. 10. MRS. MARGARET M. NICE
Second Vice-President
Photograph by Bachrach.



FIG. 11. SAMUEL E. PERKINS III
Treasurer



FIG. 12. F. P. ALLEN
Librarian



FIG. 13. Group at the Annual W. O. C. Meeting, St. Louis, 1935.

With these increases the Club has had a decided net increase in membership. The total number of members lost during the year 1935 from all causes was 122, 1 being Life, 3 Sustaining, 12 Active, and 96 Associate. A considerable number of former members have reinstated during the year. Thus there has been a net gain of 63 members during 1935.

This leaves the present membership of the Club at 784, distributed as follows: Honorary, 6; Life, 11 (2 also are Honorary); Sustaining, 42; Active, 189; Associate, 538. This is the largest total membership in the history of our organization, exceeding by nine members the former high point reached in 1930 at the time of the Cleveland meeting.

The Secretary wishes to take this opportunity to thank the many members who have assisted in the membership campaign, helped with the staging of the annual meeting, or otherwise advanced the work of the Wilson Ornithological Club during the past year. It has been particularly gratifying to have received in all more than 410 letters from the members giving news of their own work, ideas and suggestions on ornithological and conservational topics, or words of encouragement and constructive criticisms of the work being done. It is greatly regretted that the pressure of other duties has made it impossible to answer many of these directly or to reply save by abbreviated note.

Respectfully submitted,

LAWRENCE E. HICKS, *Secretary*.

KEY TO GROUP PHOTOGRAPH OF THE W. O. C. MEETING AT ST. LOUIS, 1935

1. Albert F. Canier. 2. E. L. Moseley. 3. A. M. Obrecht. 4. Sterling P. Jones. 5. Ann Loftus. 6. Lillian Serbousek. 7. Mabel Slack. 8. A. Marguerite Heydewicler. 9. Irving Brant. 10. Mrs. Howard S. Benedict. 11. S. E. Perkins. III. 12. Lawrence E. Hicks. 13. Fanny A. Cook. 14. Leonard B. Nice. 15. T. C. Stephens. 16. Mrs. H. J. Taylor. 17. Margaret M. Nice. 18. Edith R. Force. 19. Myra G. Willis. 20. W. K. Butts. 21. Perna M. Stine. 22. Robert B. Gordon. 23. R. D. Book. 24. Roger T. Peterson. 25. W. M. Rosene. 26. Earl C. Wright. 27. Roy V. Kommarek. 28. Jack Stupp. 29. Mrs. A. F. Satterthwait. 30. Miss Phinney. 31. John B. Calhoun. 32. Frederick M. Baumgartner. 33. Walter M. Rosene, Jr. 34. Fremont Arbeiter. 35. Mrs. Myron H. Swenk. 36. L. M. Gates. 37. Mrs. L. M. Gates. 38. Josselyn Van Tyne. 39. M. L. Fisher. 40. R. E. Jordan. 41. Louis M. Weber. 42. Rudolf M. Bennett. 43. A. E. Shirling. 44. Logan J. Bennett. 45. Iva N. Gabrielson. 46. Paul Bartsch. 47. George O. Hendrickson. 48. Jesse M. Shaver. 49. Myron H. Swenk. Copies of this 1935 photograph may be obtained for forty cents by addressing Mr. A. J. Nolte, 3434 Osage Street, St. Louis, Mo.

REPORT OF THE TREASURER FOR THE YEAR 1935

RECEIPTS FOR 1935

December 15, 1934, Balance on hand as per last report.....	\$ 842.32
The following was collected as dues from members:	
3 Associate members for 1933.....	\$ 4.50
13 Associate members for 1934.....	19.50
5 Active members for 1934.....	12.50
334 Associate members for 1935.....	501.00
146 Active members for 1935.....	365.00
21 Sustaining members for 1935.....	105.00
104 Associate members for 1936.....	156.00
43 Active members for 1936.....	107.50
12 Sustaining members for 1936.....	60.00
2 Associate members for 1937.....	3.00
	<hr/>
Total collected from membership dues.....	1,334.00
The following was collected from subscribers:	
1 Subscriber for 1934.....	1.50
75 Subscribers for 1935.....	112.50
15 Subscribers for 1936.....	22.50
40 Part subscriptions and part memberships, etc.....	49.67
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Total received from subscriptions.....	186.17
The following were miscellaneous receipts.	
Back numbers of BULLETINS sold.....	24.75
Contributed toward publication fund.....	106.50
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Total miscellaneous receipts.....	131.25
	<hr/>
Total receipts including old balance.....	\$2,493.74

ENDOWMENT FUND

December 15, 1934, Balance on hand from last report.....	\$1,442.02
June 1, 1935, interest.....	18.02
December 1, 1935, interest.....	.05
	<hr/>
	\$1,460.09
During the year the Endowment Fund was invested in the following securities:	
June 1, 1935, U. S. Savings Bonds.....	\$ 675.00
June 1, 1935, U. S. Postal Savings 2½% Coupon Bonds.....	780.00
Balance in savings account, Citizen's National Bank, Boone, Iowa.....	5.09
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	\$1,460.09

DISBURSEMENTS FOR 1935

Printing four issues of the BULLETIN.....	\$1,090.75
Cost of halftones, cuts, etc.....	151.82
Cost of reprints.....	3.17
Other expenses in Editor's office.....	151.45
	<hr/>
Total publication costs.....	\$1,397.19
Expenses in Secretary's office.....	133.01
Printing programs, convention expense, etc.....	119.21
Expenses in Treasurer's office.....	49.25
President's postage expense.....	4.84
18 subscriptions refunded on account of error.....	20.95
Check returned and not made good.....	1.50
Ecological Society of America.....	1.00
U. S. check tax on two checks at 2c.....	.04
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Total general costs.....	329.80
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Total disbursements for year 1935 (see itemized sheet)	\$1,726.99
Balance on hand December 20, 1935.....	766.75
	<hr/>
Total	\$2,493.74

Respectfully submitted,

W. M. ROSENE, *Treasurer.*

Ogden, Iowa, December 21, 1935.

REPORT OF THE AUDITING COMMITTEE

The undersigned have examined the report of the Treasurer of the Wilson Ornithological Club for the fiscal year ending December 21, 1935, and vouchers accompanying the same, and have found them correct.

Respectfully submitted,

MYRON H. SWENK.
SAMUEL E. PERKINS, III.

REPORT OF THE LIBRARIAN FOR 1935

December 23, 1935.

I have the honor to present herewith the fifth report of the Librarian of the Wilson Ornithological Club.

EXCHANGES. During the past year the library has received regularly on exchange *Iowa Bird Life* and the University of Iowa *Studies in Natural History*. The value of this material can not be overemphasized. The exchange of the BULLETIN for not only domestic but also foreign journals is of inestimable scientific value to the Club and its library in the field of research. The exchanges may quite naturally become the very backbone of the research library.

REPRINTING. On the matter of reprinting out-of-print numbers of the BULLETIN some progress has been made. With funds available from the sale of back numbers, one hundred copies of BULLETIN No. 18 (January, 1898) were made by the lithoprint process. This BULLETIN is available for \$1.00 with a 20 per cent discount to members.

STOCK. During 1935 no stock of BULLETINS was received.

BOOK PLATE. As yet no book plate has been adopted by the Club although several have been submitted.

DONORS. The Librarian takes pleasure in acknowledging gifts to the Club Library from the following persons during 1935: Mr. Ralph Beebe, Ecorse, Michigan; Mr. S. T. Danforth, Puerto Rico; Mr. Samuel C. Harriot, New York, N. Y.; Mr. Lawrence Hicks, Columbus, Ohio; Mr. Leon Kelso, Washington, D. C.; Mr. O. A. Stevens, Fargo, N. D.; Mr. Warren J. Willis, New York, N. Y.

STATISTICS, A FIVE-YEAR SUMMARY. The gifts to the library for 1935 total twelve bound volumes and ninety separates, reprints, and unbound numbers of periodicals. This makes a total for the five-year period of the existence of the library of 190 bound volumes and 1477 separates.

	Donors	Bound Volumes	Pamphlets
1931.....	13	54	750
1932.....	7	66	97
1933.....	5	36	298
1934.....	3	22	242
1935.....	7	12	90

As an officer of the Wilson Ornithological Club I view with alarm this decided falling off of our accessions. It may be readily observed that we have never had as poor a year as 1935. Another unfortunate aspect of the situation lies in the fact that there were no new donors during the past year. Delighted as we are with yearly contributions from old friends of the library, it is nevertheless gratifying to have new names to add to our list of donors. Out of our entire membership it is amazing that only fifteen people have been sufficiently interested to contribute to the library over the entire five-year period. Fortunately eight of these have contributed more than once. Mr. Willis has contributed for four years, Mr. O. A. Stevens and Mr. Kelso have contributed for three years, while Mr. Beebe, Mr. Danforth, Mr. Summer, Mr. Harriot, and Mr. Hicks have contributed for two years.

All members of the Wilson Ornithological Club should become much more library minded and the time to start is now with a contribution.

Respectfully submitted,

F. P. ALLEN, *Librarian.*