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## Kentucky Warbler (Vol. 47, no. 3)

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# The Kentucky Warbler

(Published by the Kentucky Ornithological Society)

Vol. 47

AUGUST, 1971

No. 3



PURPLE GALLINULE

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### THE KENTUCKY WARBLER

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|------------------------|---|
| Editor .....           | Anne L. (Mrs. F. W.) Stamm, 9101 Spokane Way,<br>Louisville 40222 |
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### OUR COVER

The cover picture is a reproduction of Karl Maslowski's interesting photograph of the Purple Gallinule (*Porphyryla martinica*) taken in mid-May 1971, at Crosley Lake, slightly east of Cincinnati, Ohio.

This colorful bird, a rarity in Kentucky, is also a very rare migrant in the Cincinnati area.

Elsewhere in this issue James W. Hancock writes of seeing this species at Goose Pond, in western Kentucky.

## STAPHYLOCOCCUS AUREUS ISOLATED FROM THE INTESTINAL TRACT OF STARLINGS

D. R. WITTY AND L. P. ELLIOTT

As a result of the large number of Starlings (*Sturnus vulgaris*) in the United States, this bird has been a source of controversy among farmers, ornithologists, the general public, and public health officials. There are many reports of micro-organisms which are carried by the Starling. *Mycobacterium avium* was found by Beckford (1966) to be spread from poultry to swine by the Starling. Other organisms that the Starling has been reported to carry are *Histoplasma capsulatum* (Murdock *et al.*, 1962), *Salmonella typhimurium* (Hudson and Tudor, 1957) and *Plasmodium hexamerium* (Janovy, 1966). In view of the wide migratory and feeding habits of these ubiquitous birds, the possibility that they may serve as vectors for the dissemination of other pathogenic bacteria in nature such as *Staphylococcus aureus* warranted further investigation.

### Materials and Methods

This study extended over a period of one and a half years, and 226 Starlings were sacrificed. Dr. H. E. Shadowen (1969) has reported on the diet of these Starlings. Twenty-six of the Starlings were unsuitable for microbiological analysis. As soon as possible after death the birds were brought to the laboratory for testing. Feathers were plucked away from the abdominal region, exposing a region from the sternum to the anus. This area was swabbed with iodine. Horizontal and vertical incisions were made below the tip of the sternum and the entire intestinal tract was removed and swabbed with iodine. A loopful of fecal material was removed from an incision in the lower inch of the intestinal tract and transferred to one ml. of saline solution. This procedure was followed for each of the birds tested. The tubes of saline were vigorously mixed, and a loopful of the contents from each tube was streaked on Mannitol Salt Agar (MSA) (Difco), a selective medium for staphylococci, and incubated at 37 C for 24 hours. Later in the study, two other selective media for staphylococci, a tellurite (Baird-Parker, 1962) and selenite (Elliott, 1968) egg yolk media, were compared with mannitol salt agar in ability to select for staphylococci.

The catalase-positive gram-positive cocci were identified according to the principles and methods reported by Cowan and Steel (1964). Staphylococcal colonies were transferred to Brain Heart Infusion (Difco) agar slants and stored as stocks to be used in further testing. The cultures of *S. aureus* were sent to the Kentucky Department of Health to be phage typed.

In the above study *S. aureus* was isolated. Therefore, experiments were designed to determine the survival time of *S. aureus* in the Starlings, fecal material after excretion and the length of time required for passage of the organisms through the intestinal tract. Starlings were captured and caged in the laboratory environment until it was found that the birds were free of staphylococci. The birds were then fed 1 ml. of *S. aureus*

which contained approximately 26,000 organisms. This strain was isolated from the intestinal contents of a Starling. The fecal material was collected as soon after excretion as possible and streaked on MSA for isolation, incubated at 37 C for 24 hours and if typical colony forms of staphylococci were noted, the coagulase test was performed on the isolates. This was continued until *S. aureus* was no longer isolated. In each of the 10 tests the passage time was recorded. Also fecal material positive for *S. aureus* was placed on filter paper. Five filters were placed in each selected environment during December, January, February, April, June and July to determine survival time of staphylococci in the fecal material.

### Results and Discussion

Of the 200 Starlings collected and tested, 89 Starlings or 44.5% carried isolates identified as being in the family Micrococcaceae. Forty-five of these isolates or 49.4% were identified as staphylococci. Thirty-three proved to be *S. epidermidis* and 12 were *S. aureus*. Of these 12, only one phage typed using the Blair-Williams (1961) series and it was found to be 6/7/47/54/75 which is Group III. *S. aureus* lysed and destroyed by phages of Group III are by far the most common in food intoxication. It is quite possible more of the *S. aureus* would have phage typed if phages other than the International series were used which are specifically for typing so-called human strains of *S. aureus* (Oeding *et al.*, 1970). Due to the unequal number of birds killed in various seasons it would be inaccurate to state definitely that birds killed during a particular time of the year would more often be carriers of the virulent *S. aureus* than birds collected during other periods. However, in this study more birds were found to carry coagulase-positive staphylococci during early spring, particularly March, than any other time of the year. No correlation was found between a particular foodstuff present in the stomach and the bird harboring *S. aureus*. From all birds that contained *S. aureus* Shadowen (1969) found beetles, but many birds negative for *S. aureus* had also ingested beetles. *S. epidermidis* is often thought of as being saprophytic although it is well established that the organism can be pathogenic (Brown *et al.*, 1967).

In evaluating the media for recovery of *S. aureus* from Starling fecal material no media had a significant advantage over the other; however, in using three selective media in a few cases isolates were found that would have been missed had only one media been used.

The passage time of *S. aureus* through the intestinal tract of the Starling ranged from 45 minutes to 4 hours. Seemingly, the longer the bird was in captivity the shorter was the passage time, presumably due to the bird changing from natural feeding material to laboratory feed. The Starling continued to excrete the staphylococci up to 36 hours after ingestion. This is significant in that the birds may travel 50 miles from their roosting site in search of food. This also suggested that the organism does not multiply in the tract of the Starling. The incidence figure of 6% of Starlings carrying *S. aureus* may be low because the Starling sampled may have completely excreted its *S. aureus*.

Survival times of *S. aureus* in Starling fecal material were quite variable depending upon the season of the year and the environment in which the filters were placed. The longest survival time was 17 days in

July when the filter was placed in a moist shaded area. The temperature range during this month was 69-95 F. The longest survival time recorded in direct sunlight was 6 days in December, which had a temperature fluctuation from 30-51 F. The ability of *S. aureus* to survive in fecal material in the environment adds to the problem of transmission since the organisms have ample time to be transferred to another suitable host. Iwasawa and Ishihara (1967) indicated that the survival of *S. aureus* in an environment is influenced by physical factors such as desiccation, dry heat, wet heat, and ultraviolet irradiation.

### Summary

The results indicated that Starlings can harbor *S. aureus* in their intestinal tracts and thus act as vectors in transmission of the organism. *S. aureus* survived in deposited fecal material which makes conditions possible for contamination of man and animals.

### Acknowledgment

The authors acknowledge Dr. Herbert E. Shadowen for his assistance during this study.

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—Department of Biology, Western Kentucky University, Bowling Green, Ky. 42101.

## BIG SPRING LISTS

LAND BETWEEN THE LAKES (Area essentially the same as for Christmas counts—most of the LBL north of US 68, including Kentucky Dam).—May 8; 7:00 a.m. to 7:00 p.m. Cloudy, clearing; no wind; temp. 55° to 85°. Total, 100 species. Ten additional species observed on following day, May 9, by Gray.

The most interesting finds on our spring count were the shorebirds. A good marshy area is developing in the Ferguson Springs area, and here we found the Solitary Sandpiper, Lesser Yellowlegs, Least Sandpiper, Sora, and Virginia Rail. The Semipalmated Plovers were found on Duncan Range where I had never before found shorebirds. Generally, the migration seemed especially good, with concentrations of warblers passing through.—Willard Gray, Clell Peterson (compiler).

\* \* \* \*

HENDERSON (City and suburban area of Henderson, including Audubon State Park).—May 2; partly cloudy; wind WNW, 10-15 m.p.h.; temp. 48° to 60°. Total, 117 species.—W. P. Rhoads (compiler).

\* \* \* \*

MADISONVILLE (W. W. Hancock farm, Elk Creek, Brazzle Bridge, Brown Road, Highway 892, and four lakes at Madisonville and Earlington).—May 6; 6:15 a.m. to 8:15 p.m., and 10:00 p.m. Cloudy, brief showers in afternoon; light to strong SW wind, subsiding somewhat in p.m.; temp. 58° to 79°. Total, 105 species. The best spring list I have made in many years, mainly because of the large number of waterfowl at this late date.

Other species recorded near the time of the count: Gray-checked Thrush, Cedar Waxwing, Blackburnian Warbler and Louisiana Water-

thrush. Also, at Goose Pond, western Hopkins County, the following species were seen on May 7: Great Blue Heron, Little Blue Heron, Sora, Purple Gallinule (see note elsewhere in this issue), Greater Yellowlegs, Least Sandpiper, Semipalmated Sandpiper, Belted Kingfisher, and Yellow-billed Cuckoo.—James W. Hancock.

\* \* \* \*

MAMMOTH CAVE NATIONAL PARK— May 1, 5:00 a.m. to 5:00 p.m.; May 2, 7:30 a.m. to 11:30 a.m. The count was made by an undetermined number of members of the Kentucky Ornithological Society and the Tennessee Ornithological Society. A total of 126 species was recorded in the park during the two-day period—25 more species than seen on any of the previous 15 spring counts. On May 3 and 4, 1958, 101 species were reported by nine observers, and on May 4, 1969, 100 species were reported by 12 observers following a one-day count.

Eleven species on this year's compilation had not been recorded on previous spring counts at Mammoth Cave National Park. They included the Least Bittern, Blue-winged Teal, Marsh Hawk, Sora, Killdeer, Common Snipe, Solitary Sandpiper, Lesser Yellowlegs, Tree Swallow, Cliff Swallow, and Savannah Sparrow. The following birds had been seen on only one prior count: Horned Lark, Loggerhead Shrike, Grasshopper Sparrow, and Vesper Sparrow. Some of the birds listed above have been observed in the park during the spring of previous years but not on the day of the count.—Herbert E. Shadown (compiler).

\* \* \* \*

LOUISVILLE (Louisville and its environs, including the Ohio River, Iroquois Park, Jeffersontown, Crestwood, Westport, Goshen, and southern Clark County, Indiana).—May 9; 5:00 a.m. to 8:00 p.m.; clear to partly cloudy; temp. 42° to 69°. Total, 158 species. Spring migration again late, evidenced by low count of Magnolia, Blackpoll, Bay-breasted, and Blackburnian Warblers, and lack of Golden-winged and Canada Warblers. Waterbird count very good, due in part to heavy recent rains and stage of rising river. Only exceptionally rare bird was noted the day before the count, a breeding plumage Laughing Gull in the harbor at Louisville and on the Falls of the Ohio (Monroe). Seen during week but not on count day: Great Blue Heron, Laughing Gull, Olive-sided Flycatcher, Hermit Thrush, Worm-eating Warbler, Golden-winged Warbler, Blue Grosbeak, Slate-colored Junco.—Mr. and Mrs. A. C. Anderson, Leonard C. Brecher, Mrs. A. H. Calvert, Mr. and Mrs. Wilbur Jackson, Dennis Holding, Burt L. Monroe, Jr., (compiler), Mrs. H. V. Noland, Jim Pasikowski, Mrs. Charles Robertson, Evelyn Schneider, Mr. and Mrs. F. P. Shannon, Mrs. Eugene Short, Mabel Slack, Lawrence Smith, Mr. and Mrs. Frederick W. Stamm, Mrs. A. C. Susie, Mrs. Wm. B. Tabler, Mr. and Mrs. Guy Wood.

\* \* \* \*



## BIG SPRING LISTS, 1971

Species recorded near the time of the count but not on count day are indicated with an asterisk (\*); LBL—Land Between the Lakes, H—Henderson, M—Madisonville, MC—Mammoth Cave, L—Louisville.

- Common Loon—LBL, M  
 Pied-billed Grebe—LBL, H, M, L  
 Great Blue Heron—LBL, H, M\*, L\*  
 Green Heron—LBL, H, M, MC, L  
 Little Blue Heron—M\*, MC  
 Common Egret—L  
 Black-cr. Night Heron—H, L  
 Least Bittern—M, MC  
 American Bittern—L  
 Canada Goose—LBL, L  
 Mallard—H, L  
 Black Duck—L  
 Blue-winged Teal—LBL, H, M, MC, L  
 Am. Widgeon—L  
 Shoveler—M, L  
 Wood Duck—LBL, H, M, MC, L  
 Redhead—L  
 Ring-n. Duck—M  
 Lesser Scaup—M, L  
 Ruddy Duck—M  
 Red-br. Merganser—L  
 Turkey Vulture—LBL, H, M, MC, L  
 Black Vulture—H, MC, L  
 Cooper's Hawk—LBL, H, MC, L  
 Red-tailed Hawk—LBL, H, MC, L  
 Red-sh. Hawk—MC, L  
 Broad-w. Hawk—MC, L  
 Marsh Hawk—MC, L  
 Sparrow Hawk—H, M, MC, L  
 Bobwhite—LBL, H, M, MC, L  
 Virginia Rail—LBL, L  
 Sora—LBL, M\*, MC, L  
 Purple Gallinule—M\*  
 Common Gallinule—L  
 Am. Coot—LBL, H, M, L  
 Semipal. Plover—LBL  
 Killdeer—LBL, H, M, MC, L  
 American Woodcock—MC  
 Common Snipe—L, MC  
 Spotted Sandpiper—LBL, M, MC, L  
 Solitary Sandpiper—LBL, H, M, MC, L  
 Greater Yellowlegs—H, M\*  
 Lesser Yellowlegs—LBL, M, MC, L  
 Pectoral Sandpiper—L  
 Least Sandpiper—LBL, M\*, L  
 Semip. Sandpiper—H, M\*  
 Herring Gull—LBL, L  
 Ring-b. Gull—LBL, M, L  
 Laughing Gull—L\*  
 Bonaparte's Gull—LBL, L  
 Common Tern—H, M  
 Black Tern—M  
 Mourning Dove—LBL, H, M, MC, L  
 Yellow-b. Cuckoo—LBL, M\*, MC, L  
 Black-b. Cuckoo—LBL, MC, L  
 Screech Owl—H, L  
 Great Horned Owl—LBL, H, L  
 Barred Owl—H, MC, L  
 Chuck-will's-widow—M, L  
 Whip-poor-will—LBL, H, M, MC, L  
 Common Nighthawk—LBL\*, H, M, L  
 Chimney Swift—LBL, H, M, MC, L  
 Ruby-thr. Hummingbird—LBL\*, H, MC, L  
 Belted Kingfisher—H, M\*, MC, L  
 Yellow-sh. Flicker—LBL, H, M, MC, L  
 Pileated Woodpecker—LBL, H, M, MC, L  
 Red-b. Woodpecker—LBL, H, M, MC, L  
 Red-h. Woodpecker—LBL, H, M, L  
 Yellow-b. Sapsucker—LBL, H, L  
 Hairy Woodpecker—LBL, H, M, MC, L  
 Downy Woodpecker—LBL, H, M, MC, L  
 E. Kingbird—LBL, H, M, MC, L  
 Gr. Cr. Flycatcher—LBL, H, M, MC, L  
 E. Phoebe—LBL, H, M, MC, L  
 Yellow-b. Flycatcher—H  
 Acadian Flycatcher—LBL, H, M, MC, L  
 Traill's Flycatcher—H, L  
 Least Flycatcher—H, M, L  
 E. Wood Pewee—LBL, H, M, MC, L  
 Olive-s. Flycatcher—L\*  
 Horned Lark—LBL\*, H, M, MC, L  
 Tree Swallow—LBL, H, M, MC, L  
 Bank Swallow—L  
 Rough-w. Swallow—LBL, M, MC, L  
 Barn Swallow—LBL, H, M, MC, L  
 Cliff Swallow—LBL, MC, L  
 Purple Martin—LBL, H, M, MC, L  
 Blue Jay—LBL, H, M, MC, L  
 Common Crow—LBL, H, M, MC, L

- Car. Chickadee—LBL, H, M, MC, L  
 Tufted Titmouse—LBL, H, M, MC, L  
 White-br. Nuthatch—LBL, H, M, MC,  
 L  
 Brown Creeper—L  
 House Wren—H, M, L  
 Bewick's Wren—M, L  
 Carolina Wren—LBL, H, M, MC, L  
 Long-b. Marsh Wren—LBL  
 Mockingbird—LBL, H, M, MC, L  
 Catbird—LBL, H, M, MC, L  
 Brown Thrasher—LBL, H, M, MC, L  
 Robin—LBL, H, M, MC, L  
 Wood Thrush—LBL, H, M, MC, L  
 Hermit Thrush—H, L\*  
 Swainson's Thrush—LBL, H, M, MC,  
 L  
 Gray-c. Thrush—LBL\*, H, M\*, L  
 Veery—LBL\*, H, MC, L  
 E. Bluebird—LBL, H, M, MC, L  
 Blue-g. Gnatcatcher—LBL, H, M, MC,  
 L  
 Ruby-cr. Kinglet—H, M, MC, L  
 Cedar Waxwing—M\*, MC, L  
 Loggerhead Shrike—H, M, MC, L  
 Starling—LBL, H, M, MC, L  
 White-eyed Vireo—LBL, H, M, MC, L  
 Yellow-thr. Vireo—LBL, H, M, MC, L  
 Solitary Vireo—MC, L  
 Red-eyed Vireo—LBL, H, M, MC, L  
 Philadelphia Vireo—H, MC, L  
 Warbling Vireo—H, M, MC, L  
 Black-and-white Warbler—H, M, MC,  
 L  
 Prothon. Warbler—LBL, H, M, MC, L  
 Swainson's Warbler—LBL, H  
 Worm-eating Warbler—LBL, H, MC,  
 L\*  
 Golden-w. Warbler—MC, L\*  
 Blue-w. Warbler—LBL, MC, L  
 Tennessee Warbler—LBL, H, M, MC,  
 L  
 Orange-cr. Warbler—H, L  
 Nashville Warbler—LBL, M, MC, L  
 Parula Warbler—LBL, H, MC, L  
 Yellow Warbler—LBL, H, M, MC, L  
 Magnolia Warbler—LBL\*, H, M, L  
 Cape May Warbler—H, MC, L  
 Black-thr. Blue Warbler—MC  
 Myrtle Warbler—LBL\*, H, M, MC, L  
 Blk.-thr. Green Warbler—M, L  
 Cerulean Warbler—LBL, H, M, MC, L  
 Blackburnian Warbler—M\*, MC, L  
 Yellow-thr. Warbler—LBL\*, H, M, MC,  
 L  
 Chestnut-s. Warbler—LBL, H, M, MC,  
 L  
 Bay-br. Warbler—H, MC, L  
 Blackpoll Warbler—M, MC, L  
 Pine Warbler—H, MC, L  
 Prairie Warbler—LBL, M, MC, L  
 Palm Warbler—H, M, MC, L  
 Ovenbird—MC, L  
 Northern Waterthrush—LBL, M, MC,  
 L  
 Louisiana Waterthrush—LBL, H, M\*,  
 MC, L  
 Kentucky Warbler—LBL, H, M, MC, L  
 Conn. Warbler—L  
 Mourning Warbler—L  
 Yellowthroat—LBL, H, M, MC, L  
 Yellow-br. Chat—LBL, M, MC, L  
 Hooded Warbler—MC, L  
 Wilson's Warbler—LBL, L  
 Am. Redstart—LBL, MC, L  
 House Sparrow—LBL, H, M, MC, L  
 Bobolink—M, L  
 E. Meadowlark—LBL, H, M, MC, L  
 Red-w. Blackbird—LBL, H, M, MC, L  
 Orchard Oriole—LBL, H, M, MC, L  
 Baltimore Oriole—LBL\*, H, M, MC, L  
 Common Grackle—LBL, H, M, MC, L  
 Brown-h. Cowbird—LBL, H, M, MC, L  
 Scarlet Tanager—LBL, H, M, MC, L  
 Summer Tanager—LBL, H, M, MC, L  
 Cardinal—LBL, H, M, MC, L  
 Rose-br. Grosbeak—LBL, H, M, MC, L  
 Blue Grosbeak—MC, L\*  
 Indigo Bunting—LBL, H, M, MC, L  
 Dickcissel—H, M, MC, L  
 Purple Finch—H, MC, L  
 Am. Goldfinch—LBL, H, M, MC, L  
 Rufous-s. Towhee—LBL, H, M, MC, L  
 Savannah Sparrow—LBL, MC, L  
 Grasshopper Sparrow—H, MC, L  
 Slate-col. Junco—H; MC, L\*  
 Chipping Sparrow—LBL, H, M, MC, L  
 Field Sparrow—LBL, H, M, MC, L  
 White-cr. Sparrow—LBL\*, H, M, MC,  
 L  
 White-thr. Sparrow—LBL, H, M, MC,  
 L  
 Lincoln's Sparrow—L  
 Swamp Sparrow—LBL, M, MC, L  
 Song Sparrow—H, M, MC, L

## COMMENTS ON THE 1971 ONE-DAY BALD EAGLE COUNT

COMPILED BY ANNE L. STAMM

February 20, 1971, marked the Kentucky Ornithological Society's 11th consecutive year of participation in the One-Day Bald Eagle (*Haliaeetus leucocephalus*) Count taken in cooperation with the Mississippi Valley Bald Eagle Survey. We had good coverage—14 areas ranging from the Tennessee line in Fulton County to Lake Cumberland in Russell County.

The weather was relatively mild, with temperatures ranging from 35° to 55°. Skies varied from clear to cloudy; some areas had virtually no wind while others reported winds from the northeast up to 15 m.p.h. Observations were made on foot, by car, and by boat. A few biologists and conservation officers from the Kentucky Fish & Wildlife Resources assisted the KOS members.

This year's count was the highest to date—71 Bald Eagles: 28 adults and 43 immatures. Two Golden Eagles (*Aquila chrysaetos*) were also sighted at Land Between the Lakes. See table below for breakdown by territories.

| Location   | Adults | Immatures | Total |
|--|--------|-----------|-------|
| Mississippi River bordering Kentucky .....             | 2      | 0         | 2     |
| Land Between the Lakes (Western Kentucky) .....        | 11     | 29        | 40    |
| Ballard Waterfowl Management Area (Ballard Co.) .....  | 2      | 2         | 4     |
| Henderson (downstream) .....                           | 6      | 1         | 7     |
| Ohio River (Rockport Ferry Landing—Davies Co.) .....   | 0      | 0         | 0     |
| Lake Pewee and Pleasant View Lake (Madisonville) ..... | 0      | 0         | 0     |
| Dam #50 (Crittenden County) .....                      | 4      | 1         | 5     |
| Barren River Reservoir .....                           | 0      | 0         | 0     |
| Dam #44 (Meade County) .....                           | 1      | 1         | 2     |
| Ohio River—Otter Creek .....                           | 0      | 6         | 6     |
| West Point—Salt River (Hardin County) .....            | 1      | 2         | 3     |
| Westport (Oldham County) .....                         | 0      | 0         | 0     |
| Lake Cumberland (Russell County) .....                 | 1      | 1         | 2     |
| Dale Hollow Lake (Cumberland County) .....             | 0      | 0         | 0     |
|  | 28     | 43        | 71    |

Clell Peterson, compiler for the LBL count, commented that the Bald Eagles in his area "appear to be stable in respect to numbers. Otherwise, eagles are increasingly scattered and more wary." He further stated "I feel this is the direct result of the increased traffic, much of it designed to see eagles. Another factor may be the hunting in the area. Some kind of hunting goes on practically all fall, winter, and spring, and eagles that live very long learn to be wary." Other participants assisting Dr. Peterson included the following: Jerry Allen, John Charron, J. M. Hancock, Robert Head, Dave Hildreth, Robert Howes, Scott Seibert, Robert Smith, and Paul Sturm.

J. B. Andre and Kenneth Webb, students at Murray State University, drove 108 miles from the Tennessee line to near Wickliffe. They reported seeing two adult Bald Eagles at the same time.

James Moynahan, Refuge Manager at Ballard Waterfowl Management Area, reported two adult Bald Eagles sighted at 10:00 a.m., and two immature birds at 10:32 a.m.

Robert Bolds, assisted by Hal Wolford, Gene Cambron, and Robert Kerr, reported three adult eagles opposite Caseyville, two adults and one immature along Tradewater River, and one adult just below Shawneetown Bridge.

Albert and Mildred Powell spent over four hours driving 26.6 miles

while checking the Ohio River bottoms from Ferry Landing to the mouth of Blackford Creek, without seeing eagles.

Although James W. Hancock had seen an adult Bald Eagle on December 27, 1970, at Pleasant View Lake, he could not find one on the February census date at either Lake Pewee or Pleasant View.

Jim Frazer noted four mature Bald Eagles and one immature bird leaving a roost at 6:45 a.m., near Dam #50. His father, C. L. Frazer, wrote that "It seems to me that birds seen in the late afternoon at the same location as observed in the early morning are very apt to be the same ones."

Dr. Russell Starr spent the day on the Allen County side of the Barren River Reservoir while Mr. and Mrs. James Gillenwater covered the Barren County ramps, without seeing eagles. However, Dr. Starr wrote that "several observers including the engineers at the dam have reported Bald Eagles at various Barren River areas this fall (1970)." Also, Dr. Robert Pace reported two mature Bald Eagles on March 20, 1971, west of the Barren River Peninsula Boat Ramp.

The area including Dam #44 and Flint Island on the Ohio River downstream, which in former years has been covered by Louis Pieper and the late Floyd Carpenter, was checked by Lawrence Smith and Alan Shadburne. They spotted two Bald Eagles: one adult and an immature at 3:10 p.m. and 3:25 p.m., respectively. The birds were seen over Flint Island, and viewed from the Indiana side, near Leavenworth.

Along the Ohio River, south of the mouth of Otter Creek in Meade County, Frederick W. and Anne Stamm spent eight hours (8:30 a.m. to 4:30 p.m.) checking the river bluffs. They were joined for part of the time by Dr. and Mrs. Forest Mackler, and Mr. and Mrs. Wilbur Jackson. The first Bald Eagle, sighted at 9:30 a.m., was an immature bird, flying downstream. Another bird, also an immature, was seen at 10:05 a.m. A total of six immatures were counted along this stretch of the river. This year's count was the highest we have ever recorded.

At West Point and the Salt River, the Jacksons saw one adult Bald Eagle and two immatures. Apparent duplications were eliminated with those seen below the mouth of Otter Creek since sightings were reported by time and flight directions.

Jim Pasikowski spent six hours searching along the bluffs of the Ohio River north of Louisville to Westport. Mrs. A. C. Calvert and Mrs. C. A. Robertson joined him for two and three hours, respectively. No eagles were seen.

At Wolf Creek Dam, Dennis Coskren, Robert Morris, and Dan Morris found one mature and one immature Bald Eagle at 10:00 a.m. Other areas nearby were also checked, but without results.

No eagles were spotted at the Dale Hollow Reservoir, by Charles Guthrie and Paul McCoy, although three Bald Eagles (2 adults, 2 immatures) were observed there at Frogue Peninsula on November 8, 1970, by Mr. and Mrs. Robert W. Moore. They were reported to the editor by Dr. Russell Starr.

The editor, who has been coordinating these counts in Kentucky, wishes to thank all participants. Efforts on the part of KOS members have enabled us to understand more fully the number of Bald Eagles we have in the state, particularly in mid-February, as well as the number in various localities. Also, we have contributed to the over-all study of Bald Eagles in the Mississippi Valley Survey.

The regional survey, which covered most of the Mississippi River from its source to below St. Louis, as well as most of the Illinois River and the state of Kentucky, produced 801 Bald Eagles: 564 adults, 225 immatures, and 12 not aged, according to Elton Fawks, Chairman of the Survey. He reported that "slightly under 500 people" took part in the one-day count, February 20 or 21, 1971.

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## FIELD NOTES

### PURPLE GALLINULE IN HOPKINS COUNTY

On May 7, 1971, Joe Tom Erwin, of Murray, and I made an early morning visit to Goose Pond, a marsh of approximately 50 acres which lies about two miles south of Providence, Kentucky, but is on the Hopkins County side. This marshy area is bordered by a more extensive swamp and through all of which, both marsh and swamp, flow the waters of Weirs Creek. The marsh itself is mainly of black willow, buttonbush, rose mallow, and spatterdock, with small areas of open water.

A neighboring farmer has constructed a long levee along the edge of the marsh in order to keep mine acid from the creek off his field. He attempts to keep this field drained, but frequently heavy rains cause the formation of a temporary pond which attracts herons, shorebirds, and other water birds. During a walk along the levee, we can see marsh birds below, and those out in the marsh.

We turned off to explore a short side road, bordered by an arm of the marsh and some deciduous trees. As we returned, Mr. Erwin spied a strange bird as it flew up and perched near the top of a willow.

We paused and very cautiously studied it for several minutes. We saw the bright red bill, the purple underparts, greenish back, and finally, the white frontal shield, which seemed to slope down the head somewhat, just above the nostrils. (Peterson describes this shield as "light blue" while Robbins, Brunn and Zim—*Birds of North America*, 1966—describe it as "white".)

We decided the bird was definitely a Purple Gallinule (*Porphyryla martinica*) which Robert Mengel (*The Birds of Kentucky*, page 516, 1965) lists only in the hypothetical portion of his book. The occurrence of this species in Kentucky has since been documented with a specimen collected near Louisville in Caperton's Swamp on May 8, 1967, by Kenneth P. Able (*Ky. Warbler*, 44:55, 1968).

Other species of birds recorded on this date at Goose Pond included: Pied-billed Grebe, 1; Great Blue Heron, 1; Little Blue Heron, 1 (adult); Green Heron, 3; Least Bittern, 3; Blue-winged Teal, 12; Wood Duck, 2; Sora, 2; American Coot, 33; Spotted Sandpiper, 1; Solitary Sandpiper, 1; Greater Yellowlegs, 2; Lesser Yellowlegs, 25; Least Sandpiper, 15; Semipalmated Sandpiper, 1; Black Tern, 2.—JAMES W. HANCOCK, Route 1, Madisonville 42431.

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### SAW-WHET OWL IN NICHOLAS COUNTY

On Nov. 19, 1970, at about 8:00 p.m., while returning from a house call on a rural road in Nicholas County, Kentucky, my wife and I noted what appeared to be a small owl standing in the road. It was immobilized in the glare of my headlights, and remained stationary as we got out and approached it closely, allowing its positive identification as an adult Saw-whet Owl (*Aegolius acadicus*). Though appearing fearless, after a few moments it tired of our company and flew a few yards to alight about six feet up on a small tree-trunk beside the road, still within the headlight beam, and again it permitted my approach to within two or three feet of it, remaining several minutes before it flew on into the darkness. This observation occurred about five miles west of Carlisle and is the only sighting of this species we have yet made. I might add that it has sparked a new interest in the night-time house-call!—W. R. KINGSOLVER, RFD #2, Carlisle 40311.

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### SAVANNAH SPARROWS BREEDING IN OLDHAM COUNTY

On June 28, 1969, while birding in southwestern Oldham County, we stopped to check a grassy field where we heard the buzzing, insect-like songs of both the Savannah (*Passerculus sandwichensis*) and Grasshopper Sparrows (*Ammodramus savannarum*). We saw and heard at least six of the former species in the upland field. A pond was at some distance but easily seen from the meadow. We noticed a bird fly to the top of a weed stalk and sing; it was a Savannah Sparrow. We assumed this species was nesting there, but could not locate a nest. As we left the area to look at a field of much taller grasses that bordered the grassy field, we were attracted by a young bird balancing itself on the lowest rung of the wire fence that separated the fields. Shortly thereafter, an adult Savannah Sparrow came to feed the fledgling, which obviously had been out of the nest but a short time. The young bird's plumage resembled that of the adult except that it seemed much buffier or yellowish. Undoubtedly, others of this species had nests there, too, but we did not investigate further.

It is quite possible that the Grasshopper Sparrows were nesting nearby, judging from their territorial activities. Although the senior author has found nests of this species in 1948, 1949, and 1950 in Jefferson County (*Ky. Warbler*, 31:52-54, 1955), she did not find Savannah Sparrows associating with them. Apparently here in Oldham County both species found conditions suitable to their nesting requirements in the same fields.

We believe this record worthy to note since we have found no mention of actual breeding of the Savannah Sparrow in the ornithological literature of Kentucky.—ANNE L. STAMM, 9101 Spokane Way, Louisville 40222; DOROTHEA McCONNELL, 705 Victoria Place, Louisville 40207.

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### SOME NOTES FROM SOUTH-CENTRAL KENTUCKY

On May 5, 1971, Mrs. Starr cleaned out an already used Eastern Bluebird (*Sialia sialis*) box, located on a fence post in the Brigadoon Farm yard. Within a short time, perhaps 10 minutes, we noticed a busy little

brown bird transporting dried grass and tiny twigs into the box. We observed her, and her mate, who was singing nearby in a hackberry tree, until dark. The birds were House Wrens (*Troglodytes aedon*), my first Barren County record. We did not return again until May 12, when we found the nest torn out and on the ground. Since then, however, we have heard the House Wren singing in the area—usually near the barn—but have found no more nests. Some years ago I saw the House Wren in the Bowling Green area, with Gordon Wilson. On June 9, 1971, while taking our Breeding Bird Census, I heard it again near the Edmonson County-Warren County line.

The Song Sparrow (*Melospiza melodia*) continues to be a summer resident of eastern and southern Glasgow, along the area bordering the South Fork of Beaver Creek, which meanders through the town. It probably has been here for ages; I have not been able to search out the rural extremities of the stream to determine its presence.

James Hiser, who lives in Metcalfe County, near the hamlet of Center, reports to me that on November 5, 1970, he saw four Sandhill Cranes (*Grus canadensis*) flying in a southeasterly direction across his farm. It is on Mr. Hiser's farm that the Virginia Rail (*Rallus limicola*) is seen each fall (*Ky. Warbler*, 43:37-38, 1967).—RUSSELL STARR, Route 7, Glasgow 42141.

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## NEWS AND VIEWS

### THREE NEW LIFE MEMBERS

It is with pleasure that we welcome three new Life Members: Charles Horner, Louisville; Allie Louis Whitt, Jr., Richmond; and Ray Harm, Chenoa.

Mr. Horner, a retired business executive, shares his wife's interest in ornithology. He has spent many hours on the 200-acre Horner Wildlife Sanctuary, two miles southwest of Brownsboro, operated by the University of Louisville biology and geology departments. The land was purchased in 1960 and given to the University by Mr. and Mrs. Horner. He enjoys summers at his home in Nantucket.

Mr. Whitt, who is professor of biology at Eastern State University, says that he has been interested in birds as far back as he can remember. However, his real interest began about 20 years ago when he started to teach ornithology:

Mr. Harm, a naturalist and wildlife artist, is a native of West Virginia, but has lived in Kentucky for some ten years. He now lives in the mountains of eastern Kentucky at Chenoa, and although his schedule is a heavy one, he finds some time to get out-of-doors to enjoy the birds of his adopted state. He has been generous with sending reproductions of some of his paintings for use in *The Kentucky Warbler*.

\* \* \* \*

### FALL MEETING

Plan now to participate in the forty-eighth annual meeting to be held at Kentucky Dam Village State Park, October 8-10, 1971. Fall colors should be at their best, and the fall migration in full swing.

\* \* \* \*

### DR. H. V. NOLAND DIES

Dr. Hulbert V. Noland, Louisville, a practicing internist and clinical professor of medicine at the University of Louisville School of Medicine, died on April 25, 1971. He had been a KOS member since 1959, and attended some of the state meetings. When the KOS met at Falls of Rough in 1967, Dr. Noland graciously offered his nearby farm for field trips. Dr. and Mrs. Noland participated in ornithological trips to Africa, Norway, and the Galapagos Islands.

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### NEST RECORD CARDS

KOS members are asked to send completed nest-record cards, preferably in duplicate, to their regional coordinators, or to the editor. The Laboratory of Ornithology, Cornell University, is currently engaged in a study of the geographical variation of the clutch-size of the Robin, Barn Swallow, and the Eastern Phoebe and is anxious to receive nesting information on these species as soon as possible.

## KENTUCKY ORNITHOLOGICAL SOCIETY

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| §Student Member  | †Family Member | All others Regular Members |
| *Abell, Mrs. Irvin, Jr., Mockingbird Valley Rd., Louisville 40207                        |                |                            |
| §Able, Kenneth P., Univ. of Georgia, Dept. of Zoology, Athens, Georgia 30601             |                |                            |
| †Abrams, Mr. and Mrs. Frank, Jr., 2512 S. Griffith Ave., Owensboro 42301                 |                |                            |
| Ake, Robert L., Dept. of Chemistry, Old Dominion Univ., Norfolk, Va. 23508               |                |                            |
| Alcock, W. C., 518 Dogwood Drive, Danville 40422   |                |                            |
| Aldrich, R. C., 153 Thierman Lane, Apt. 1, Bldg. 7, Louisville 40207                     |                |                            |
| Alford, Miss Amelia B., 616 Rudy Lane, Louisville 40207                                  |                |                            |
| §Allen, Jerry W., 804 19th St., Murray 42071   |                |                            |
| Allen, Miss Mildred C., 1133 Chestnut St., Apt. 6, Bowling Green 42101                   |                |                            |
| Allen, Mrs. W. R., 417 Clifton Ave., Lexington 40508                                     |                |                            |
| Almstedt, Mrs. Arthur, 444 Lightfoot Rd., Louisville 40207                               |                |                            |
| §Alsop, Fred J., III, 147 Taliwa Courts Addition, Chapman Highway, Knoxville, Tenn 37920 |                |                            |
| †Altsheler, Mr. and Mrs. Yancey, 800 S. Fourth St., Louisville 40203                     |                |                            |
| Ames, Mrs. Leonard, 1427 Silver Slate Dr., New Albany, Ind. 47150                        |                |                            |
| †Anderson, Mr. and Mrs. A.C., 3515 Autumn Way, Louisville 40218                          |                |                            |
| †Anderson, Mr. and Mrs. John C., 115 Summit Trail, Paducah 42001                         |                |                            |



- §Andre, J. B., Highway 121, Apt. 6, Murray 42071  
 Appanaitis, Millicent, 548 Park-er-Wood Drive, Rockford, Ill. 61102
- Bacon, Mrs. Barry W., 2201 Sheffield Ct., Owensboro 42301  
 Bagian, Mrs. Edward B., 302 Santee Path, Louisville 40207  
 Barbour, Dr. Roger W., Rt. 1, Tates Creek Pike, Lexington 40503  
 Barr, Dr. Robert M., 1146 Kenton St., Bowling Green 42101  
 Barry, Mrs. J. Michael, 2140 Lakeside Dr., Louisville 40205  
 †Bauer, Mr. and Mrs. William H., 119 N. Birchwood, Louisville 40206  
 Bea, Dr. Charles E., 2426 S. Cherokee Dr., Owensboro 42301  
 Bea, Mrs. Charles E., 2426 S. Cherokee Dr., Owensboro 42301  
 Belt, Newton O., Blandville 42026  
 Benson, King C., Route 1, Box 434, Henderson 42420  
 †Bergen, Mr. and Mrs. Warren, Rt. 2, Box 50B, New Albany, Ind. 47150  
 Bing, Marvin, 284 Plainview, Frankfort 40601  
 \*Blackford, Miss Gladys H., 314 E. College St., Mayfield 42066  
 Bloch, Dr. Austin, 2116 Douglass Blvd., Louisville 40205  
 \*Booth, Mrs. Morey L., 125 Arrowhead Road, Louisville 40207  
 §Borders, Miss Janet, 1851 Mary Catherine Drive, Louisville 40216  
 Bowman, Mrs. Harry W., P.O. Box 54, Bowling Green 42101  
 Boyarsky, Miss Amy, 1729 Traveller Rd., Lexington 40504  
 \*\*Brecher, Leonard C., 1900 Spring Drive, Louisville 40205  
 \*Brecher, Mrs. Leonard C., 1900 Spring Drive, Louisville 40205  
 †Brizendine, Mr. and Mrs. Thomas S., 411 Oakview Drive, Greenville 42345  
 Brockman, Mrs. George F., 126 Maple Drive, Greenville 42345  
 Brown, William Horace, Rt. 3, Shelbyville 40065  
 \*\*Bryens, Oscar McKinley, Rt. 1, White Pigeon, Michigan 49099  
 Bufkin, Mrs. P. H., Jr., 3013 Aubert Ave., Louisville 40206  
 †Buckner, Mr. and Mrs. E. Douglas, 5350 Benton Rd., Paducah 42001  
 Burd, Rex Allen, Rt. 1, Horse Cave 42749  
 †Burns, Mr. and Mrs. G. L., Rt. 5, Lexington 40502  
 Burton, Miss Mary E., 3125 Randolph Ave., Louisville 40206
- Calvert, Mrs. A. H., 218 Choctaw Rd., Louisville 40207  
 Campbell, Mrs. Wallace V., Rt. 3, Frankfort 40601  
 Carr, Ellwood J., R.F.D. Rt. 3, Frankfort 40601  
 Chambers, Dr. Charles E., 1010 College Drive, Owensboro 42301  
 \*\*Cheek, John A., II, 1 Medford Court, Ann Arbor, Mich. 48104  
 Clay, Dr. William M., 4532 Southern Pkwy., Louisville 40214  
 Clay, Mrs. William M., 4532 Southern Pkwy., Louisville 40214  
 Cobb, Howard, 2536 Ransdell Ave., Louisville 40204  
 \*Cochran, Mrs. Archibald P., 25 Stone Bridge Rd., Louisville 40207  
 Cole, Dr. Evelyn, 1703 Ryan Ave., Murray 42071  
 \*Cole, Mrs. W. R., Jr., 1746 Sulgrave Rd., Louisville 40205  
 Coleman, Miss Louise, 509 Steele St., Frankfort 40601  
 Comeau, Clifford M., 124 Bender Drive, Frankfort 40601  
 §Conrad, Jimmie D., Rt. 1, Rumsey 42371  
 †Cornette, Mr. and Mrs. Russell, 2529 Cox Mill Rd., Hopkinsville 42240  
 Coskren, T. Dennis, Miller Hall, Geology Dept., Univ. of Ky., Lexington 40506  
 Covert, James L., 6610 Deep Creek Drive, Prospect 40059  
 Crabtree, George F., 1246 Cherokee Rd., Louisville 40204  
 †Craddock, Mr. and Mrs. J. D., Jr., Munfordville 42765

- Croft, Joseph, 2366 Gladstone Ave., Louisville 40205  
 \*Cross, Mrs. Roscoe, Rt. 5, Mayfield 42066  
 Curtis, Ted, 1436 Tamarack Rd., Owensboro 42301  
 †Cypert, Mr. and Mrs. Eugene, 1006 Darling Ave., Waycross, Georgia 31501  
 Czurles, Sister Casimir, Brescia College, Owensboro 42301
- \*\*Daubard, Mrs. Mary Louise A., 616 Rudy Lane, Louisville 40207  
 †Dean, Mr. and Mrs. Dan F., 1907 Spring St., Jeffersonville, Ind. 47130  
 \*Deane, Amy, Holsclaw Hill Rd., Brooks 40109  
 Deane, Mrs. R. L., Rt. 5, Benton 42025  
 Dowd, Miss Yvonne, 936 N. 26th St., Paducah 42001  
 Dozier, Mrs. E. W., Jr., 4104 Napanee Rd., Louisville 40207  
 Dubke, Kenneth H., 720 Bacon Trail, Apt. 1, Chattanooga, Tenn. 37412  
 †Duff, Mr. and Mrs. Earl L., 300 Greenleaf Drive, Evansville 47710  
 \*Duncan, W. G., 519 Ridgewood Rd., Louisville 40207  
 Durell, James, 1027 Algonquin Trail, Frankfort 40601  
 Durning, Mrs. R. Lee, 306 Claremont Ave., Louisville 40206
- Early, Mrs. J. Stuart, 485 W. Walnut St., Apt. 5, Danville 40422  
 Ellington, Mrs. Dorothy M., Rt. 2, Box 214, Richmond, Ind. 47374  
 Elliott, Mr. and Mrs. William U., Rt. 1, Maceo, 42355  
 Ellis, Mrs. George J., Jr., 115 Douglas Drive, Glasgow 42141  
 \*Ellison Walter J., 10108 Stone Street Rd., Valley Station 40272  
 Erwin, Joe Tom, Sports Information Office, Murray St. Univ., Murray 42071  
 †Ewing, Mr. and Mrs. Niels O., 5607 Apache Rd., Louisville 40207
- †Fairbrother, Mr. and Mrs. F. A., Jr., 2809 Pomeroy Drive, Louisville 40218  
 Feck, Mrs. Woodrow, Rt. 2, Box 80, Nicholasville 40356  
 Feldman, Mrs. F. D., 426 Eline Ave., Louisville 40207  
 Finucane, Thomas W., 1434 Watauga St., Kingsport, Tenn. 37664  
 †Fisher, Mr. and Mrs. Stanley E., 2525 Saratoga Drive, Louisville 40205  
 †Fitzhugh, Mr. and Mrs. Henry, Jr., 6401 Wolf Pen Branch Rd., Harrods Creek 40027  
 Flint, Mrs. Maude, 2019 Grasmere Drive, Louisville 40205  
 †Flynn, Mr. and Mrs. Michael B., 218 Shady Lane, Lexington 40503  
 Ford, Joseph M., 1413 Tamarack Rd., Owensboro 42301  
 Fothergill, Charles E., 225 Kennedy Court, Louisville 40206  
 Franson, John L., 1020 E. 20th St., Owensboro 42301
- \*\*Frazer, Chastain L., Box 246, Marion 42064  
 Frazer, Jim, Corps Engineers, Lock and Dam 50, Marion 42064  
 \*Fries, Waldemar H., 86 Cushing St., Providence, R.I. 02906  
 Furnish, Dr. William F., 2429 Longest Ave., Louisville 40204
- \*\*\*Ganier, Albert F., 2112 Woodlawn Drive, Nashville, Tenn. 37212  
 Gates, Miss Mary Reuter, 2508 Newburg Rd., Louisville 40205  
 Gatlin, Mrs. Ila D., Jr., Rt. 2, Box 181, Henderson 42420
- \*\*Gill, Miss Helen, 204 W. Maple Ave., Lancaster 40444  
 \*Gillenwater, Mrs. James E., P.O. Box 526, Glasgow 42141  
 †Glascock, Mr. and Mrs. R. W., Rt. 1, Alvaton 42122  
 Gray, Willard N., 417 S. 7th St., Boonville, Ind. 47601

- Greenwell, Miss Mary Lydia, 2541 Griffith Ave., Owensboro 42301  
 \*\*Gresham, Mrs. Austin, 300 Mockingbird Hill, Louisville 40207  
 †Griffith, Col. and Mrs. F. D., Jr., 2544 Dell Rd., Louisville 40205  
 \*\*Guthrie, Charles S., P.O. Box 55, Burkesville 42717
- Haldane, Miss Gladys J., 3125 Randolph Ave., Louisville 40206  
 Hall, Dr. Sue, Women's Gym, Belknap Campus, Univ. of Louisville,  
 Louisville 40208  
 Hamon, Dr. J. Hill, Rt. 2, Box 332, Frankfort 40601  
 Hancock, Dr. Hunter M., 1107 Elm Extended, Murray 42071  
 Hancock, Mrs. Hunter M., 1107 Elm Extended, Murray 42071  
 \*\*Hancock, James W., Rt. 1, Madisonville 42431  
 Hansberry, Dr. Howard L., Jr., 1615 Forest Hill Drive, Louisville 40205  
 Hansberry, Mrs. Howard L., Jr., 1615 Forest Hill Drive, Louisville 40205  
 Hansen, Mrs. George M., P.O. Box 328, Eddyville 42038  
 Hardwick, Mrs. Charles A., Commodore Apts., 2140 Bonnycastle Ave.,  
 Louisville 40205  
 †Hargrove, Mrs. B. L. and Alma B., 211 W. Burnett Ave., Louisville 40208  
 Harlin, Mrs. Josie R., P.O. Box 2, Tombstone, Ariz. 85638  
 \*\*Harm, Ray, Chenoa 40925  
 †Harm, Mrs. Ray, Chenoa 40925  
 Hartung, Mrs. Bertha Ann, 925 N. Elm St., Henderson 42420  
 Hays, Dr. Rodney M., R.R. 5, Jacks Creek Park, Lexington 40502  
 \*Head, Robert William, Box 438, Art Dept., Murray St. Univ., Murray  
 42071  
 Heaton, Mrs. Anna N., 625 Mitchell Ave., Lexington 40504  
 Heck, Mrs. Frank H., 614 W. Main St., Danville 40422  
 Helm, Mrs. Nelson, 128 Council Rd., Louisville 40207  
 Hendrickson, Mrs. Speed F., Rt. 1, Box 449, Florence, Williamsburg 40769  
 \*Hickman, Mrs. Baylor O., Goshen, 40026  
 †Hill, Mr. and Mrs. James H., 5611 Sharp Rd., Dayton, Ohio 45432  
 Hiser, Dr. James, Sulfur Well, 42129  
 Hogan, Mr. Cleo C., Rt. 1, Box 916, Park City 42160  
 †Holding, Dr. and Mrs. Dennis, 130 N. Hite Ave., Louisville 40206  
 \*\*Horner, Charles, 411 Duff Lane, Louisville 40207  
 \*\*Horner, Mrs. Charles, 411 Duff Lane, Louisville 40207  
 Hughes, Henry J., Jr., 2826 Adams Ave., Ashland 41101  
 Hummel, Mrs. Harry H., 122 S. Sherrin Ave., Louisville 40207  
 †Humphrey, Mr. and Mrs. Maurice E., Rt. 4, Murray 42071  
 †Hyde, Mr. and Mrs. Gillie T., 108 Douglas Drive, Glasgow 42141
- †Iles, Mr. and Mrs. Ramon R., 2223 St. James Court, Owensboro 42301
- Jackson, Charles T., 2029 Robin Rd., Owensboro 42301  
 †Jackson, Mr. and Mrs. Wilbur F., 1325 Clara Ave., Louisville 40215  
 †Jones, Mr. and Mrs. Howard P., Rt. 6, Box 119, Frankfort 40601
- †Karpoff, Dr. and Mrs. Arnold, 3501 Illinois Ave., Apt. A-7, Louisville  
 40213  
 \*Keller, Charles E., 423 Marion E. Taylor Bldg., Louisville 40202  
 Kelly, Mark Thomas, 305 Jessie Ave., Hopkinsville 42240  
 Kelly, Miss Sarah A., 93 Warrior Rd., Louisville 40207  
 §Kemp, William Chesley, 1447 Nightingale Rd., Apt. 1, Louisville 40213

- Kemper, C. Wesley, Box 140, College Station, Murray 42071  
 Kemper, William, 412 N. Maple Ave., Danville 40422  
 †Kerbel, Carl F., 621 Harrison Ave., Louisville 40217  
 King, Virgil D., 2024 La Grange Rd., Dayton, Ohio 45431  
 †Kingsolver, Dr. and Mrs. Wendell R., Rt. 2, Carlisle 40311  
 Kleen, Vernon M., P.O. Box 1057, Carbondale, Ill. 62901  
 Konz, Mrs. Arthur, 929 Dove Lane, Louisville 40213  
 Kozee, Ercel, Willard 41181  
 †Kramer, Mr. and Mrs. Raymond S., 306 W. Legion Blvd., Owensboro 42301  
 \*\*Krieger, Mrs. William, 130 Maple Ave., Haworth, New Jersey 07641  
 †Krull, Mr. and Mrs. Frank, 7304 Shadwell Lane, Prospect 40059
- Lancaster, Dr. L. Y., 930 Nutwood Ave., Bowling Green 42101  
 Larson, Edwin R., Jr., 627 S. Preston St., 205 B, Louisville 40202  
 Lashbrook, Mrs. Emogene, 120 E. 20th St., Owensboro 42301  
 \*\*Lasky, Mrs. F. C., 1521 Graybar Lane, Nashville, Tenn. 37215  
 Lawrence, Lt. Col. Austin R., 3301 Patrick Henry Drive, Falls Church, Va. 22044  
 Leggett, Kenneth, P.O. Box 16, Pinconning, Mich. 48650  
 \*\*Lemons, John W., 104 Loftus Drive, Hopkinsville 42240  
 \*\*Lemons, Mrs. John W., 104 Loftus Drive, Hopkinsville 42240  
 †Lester, Mr. and Mrs. John E., 301 The Esplanade, Louisville 40214  
 Lightfoot, Mrs. Adella E., Rt. 9, Bowling Green 42101  
 Loetscher, Dr. Fredrick W., Jr., 507 W. Main St., Danville 40422  
 \*\*Logan, Dulaney, 9 River Hill Rd., Louisville 40207  
 Lucas, Dr. Marvin A., 1715 Dundee Way, Louisville 40205  
 Lutes, Henry M., 5623 Southern Pkwy., Louisville 40214  
 Luther, Mrs. Dorothy, 4515 Marcy Lane, Apt. 239, Indianapolis, Ind. 46205
- †McBrayer, Mr. and Mrs. H. D., 985 Stonewall Rd., Lexington 40504  
 McChord, Mrs. John H., 433 Club Lane, Louisville 40207  
 †McConnell, Dr. and Mrs. Kenneth P., 705 Victoria Place, Louisville 40207  
 McDevitt, Mrs. Coleman J., 915 Sycamore St., Murray 42071  
 McDowell, Robert E., 2212 Fairland Ave., Louisville 40205  
 McGlasson, Mrs. Alvin, 429 Breck Ave., Richmond 40475  
 McKinley, Dr. George G., P.O. Drawer B, Glasgow 42141  
 †Mackler, Dr. and Mrs. Forrest J., 3105 Preston Highway, Louisville 40213  
 Mahaffey, Dr. J. Herman, 560 Sunnyside Drive, Louisville 40206  
 Marmion, Miss Beverly, 2515 Wallace Ave., Apt. 12, Louisville 40207  
 Marshall, Mrs. John, Jr., 3210 Oriole Drive, Louisville 40213  
 Martin, Mrs. Lyman C., 519 Club Lane, Louisville 40207  
 Martin, Mrs. Spencer F., 1709 Clayton Rd., Louisville 40205  
 Massie, Miss Lois, 1518 Herr Lane, Louisville 40222  
 Mathes, Mr. and Mrs. William B., 1903 Janlyn Rd., Jeffersontown 40299  
 Mayer, Charles F., U.K. Chemistry Dept., Box 95, Lexington 40506  
 Maxson, Dr. William T., 1636 Ashwood Dr., Lexington 40502  
 Maxson, Mrs. William, Rt. 1, Higbee Mill Rd., Lexington 40503  
 Mayer, Mrs. John H., 244 Hillsboro Ave., Lexington 40505  
 Mayfield, Al H., 4212 N.W. 47th Court, Fort Lauderdale, Fla. 33313  
 Meade, Charles M., 510 Third St., Henderson 42420  
 Medley, Miss Margaret M., 1929 Lewis Lane, Owensboro 42301

- †Meloy, Mr. and Mrs. C. O., 2912 Lilac Way, Louisville 40206  
 \*\*Mengel, Dr. Robert M., 1905 Countryside Lane, Lawrence, Kan. 66044  
 Meredith, Otis, 4707 Overbrook Drive, Louisville 40216  
 Metzger, Mrs. Ted O., 3107 Dunlieth Ct., Louisville 40222  
 \*Meyer, Mrs. Robert O., Rt. 2, Military Pike, Lexington 40504  
 Miller, Michael G., 1311 Story Ave., Murray 42071  
 †Miller, Dr. and Mrs. Robert H., 2440 Saratoga Drive, Louisville 40205  
 Milliken, Mrs. Roy P., 1815 Craig Ave., Bowling Green 42101  
 Mitchell, Mrs. Howard C., 4435 S. Third St., Louisville 40214  
 †Mitchell, Mr. and Mrs. Ira J., Cave Hill Cemetery Co., Baxter and  
 Broadway, Louisville 40204  
 Monohan, Miss Alice O., P.O. Box 7362 (Browns Ln.), Louisville 40207  
 †Monroe, Dr. and Mrs. Burt L., Jr., Dept. of Biology, Univ. of Louisville,  
 Louisville 40208  
 Monroe, Mrs. Burt L., Sr., 161 Thierman Lane, Louisville 40207  
 Moorhead, Mrs. R. W., Jr., Harrods Creek 40027  
 \*†Morford, Dr. and Mrs. Jack T., Rt. 4, Carlisle 40311  
 †Morris, Mr. and Mrs. Robert L., 219 Taylor Dr., Lexington 40505  
 Moss, Mrs. Ronald, 216 W. Owens Ave., Bismark, N. Dakota 58501  
 Muntan, Mrs. J. V., 3216 Bon Air, Louisville 40220  
 Myers, Mrs. Bowman, 335 W. Lexington Ave., Danville 40422
- Nall, Dr. Raymond W., Box 27, T.V.A., Golden Pond 42231  
 Neff, Miss Mildred, 6600 Lovers Lane, Fern Creek 40291  
 Nelson, Lee K., Rt. 3, Owensboro 42301  
 Newell, Mrs. Avis, Rt. 2, Lake Logan Rd., Logan, Ohio 43138  
 Noland, Mrs. Hulbert V., 3814 Washington Square, Louisville 40207  
 Norman, Ann G., 2000 Spring Drive, Louisville 40205
- †Offutt, Mr. and Mrs. Henry Y., Jr., 27 Southwind Rd., Louisville 40207  
 †Olsen, Mr. and Mrs. Humphrey A., Rt. 1, Box 419, Williamsburg 40769  
 \*Ormsby, Mrs. Henry D., 97 Warrior Rd., Louisville 40207
- Pace, Dr. Robert N., 1925 Nashville Road, Bowling Green 42101  
 Parmenter, Mrs. Althea S., 7601 La Grange Rd., Louisville 40222  
 Pasikowski, James C., 334 Idlewyld Drive, Apt. 5, Louisville 40206  
 †Peake, Mr. and Mrs. Richard H., Box 28, Wise, Va. 24293  
 Peil, Miss Dorothy, 2064 Sherwood Ave., Louisville 40205  
 Perkins, Mr. Paul S., 2214 Woodford Place, Louisville 40205  
 Peterson, Dr. Clell T., 901 N. 18th St., Murray 42071  
 \*\*Pettingill, Dr. Olin Sewell, Jr., 159 Sapsucker Woods Rd., Ithaca, New  
 York 14850  
 §Phillips, John H., 111 Sunset Heights, Winchester 40391  
 §Phillips, Pryor, 111 Sunset Heights, Winchester 40391  
 \*\*Pieper, Louis H., 4502 River Road, Louisville 40222  
 Pitt, Mrs. Marvin L., 1120 Brentwood Drive, Evansville, Ind. 47715  
 Pitts, David, Biology Dept., Univ. of Tenn. at Martin, Martin, Tenn.  
 38237  
 Place, Mrs. Sue, 345 E. Sugg St., Madisonville 42431  
 \*Porter, Mrs. H. Boone, P.O. Box 7391, Louisville 40207  
 Powell, A. L., Jr., Rt. 1, Maceo 42355  
 Powell, Mrs. A. L., Jr., Rt. 1, Maceo 42355  
 Prentice, John M., 411 Fairlawn Rd., Louisville 40207

\*Price, Charles B., Glenview 40025

Ray, Edwin E., 405 60 6329, PSC Box 11351; 4950 Test Wg., Wright-Patterson AFB, Ohio 45433

Ray, George, Rt. 1, Maceo 42355

†Reece, Mr. and Mrs. Alfred M., Jr., 742 Montclair Dr., Lexington 40502

Reeves, Mrs. Townsend, 420 Hollywood Drive, Lexington 40502

Reid, Mrs. Margaret W., 799 W. Lexington Ave., Danville, 40422

\*Rhoads, W. P., 728 N. Main St., Henderson 42420

\*Rice, Mrs. Clifton A., Rt. 1, Frankfort 40601

Richardson, Miss Pinkie May, Rt. 2, Richland Farm, Frankfort 40601

†Ricketts, Mr. and Mrs. Arthur S., 1311 S. Genesee Dr., Lansing, Mich. 48915

Rietze, Jane Lee, 128 N. Peterson, Apt. 3, Louisville 40206

\*\*Ringo, Mrs. William P., Sr., 902 Forest Hill Dr., Frankfort 40601

\*\*Robertson, Mrs. Charles A., 3 River Hill Rd., Louisville 40207

\*\*\*Rollin, Howard, Rt. 1, Weldona, Colorado 80653

Rommel, Miss Rose Mary, 1211 Summit Ave., Louisville 40204

Rottgering, Robert, 300 Cardinal Lane, Paducah 42001

Rowe, William C., Thomas Jefferson School, 4100 S. Lindberg Blvd., St. Louis, Mo. 63127

Ruhe, J. William, Rt. 3, Box 338, Anchorage 40223

Russell, Dr. Marvin W., 531 Claremoor Dr., Bowling Green 42101

†Ryan, Mr. and Mrs. Michael J., 3501 Illinois Ave., Louisville 40213

Satterly, Miss Elizabeth, 107 E. Broadway, Lawrenceburg 40342

\*\*Schafer, Mrs. Wilford A., P.O. Box 297, Peoria, Ill. 61601

\*\*Schneider, Miss Evelyn J., 2525 Broadmeade Rd., Louisville 40205

†Schott, Mr. and Mrs. Walter A., 9111 Wooddale Drive, Valley Station 40272

Schultz, Carl J., 4208 Churchill Rd., Louisville 40207

Scott, Frederic R., 115 Kennondale Lane, Richmond, Va. 23226

Scott, Mrs. Howard, Munfordville 42765

\*Scott, Mrs. Zenos, Jr., 6211 Orion Rd., Louisville 40222

Segerberg, Mrs. L. H., 2047 Rio Vista Drive, Louisville 40207

Seitz, Mrs. George H., 739 N. Barbee Way, Louisville 40217

Shadburne, Alan E., 107 Oxford Place, Louisville 40207

†Shadowen, Dr. and Mrs. Herbert E., 1927 Cedar Ridge Rd., Bowling Green 42101

Shannon, Francis P., 3021 Eagle Pass, Louisville 40217

Shannon, Mrs. Francis P., 3021 Eagle Pass, Louisville 40217

Short, Mrs. Eugene, 1956 Eastview Ave., Louisville 40205

Sims, Miss Wynema, P.O. Box 168, Owensboro 42301

Skaggs, Dr. Austin R., 18 Rio Vista Drive, Louisville 40207

Slack, Miss Mabel, 1004 Everett Ave., Louisville 40204

†Smith, Mr. and Mrs. Floyd, Jr., Glenview 40025

\*Smith, Lawrence D., 4206 Norbourne Blvd., Louisville 40207

\*\*Smith, Miss Virginia, "Twelve Acres," Rt. 4, Henderson 42420

Smith, W. Virginia, 2224 Walterdale Terrace, Louisville 40205

\*Spalding, Mrs. Peter, Jr., 3726 Fairway Lane, Louisville 40207

Speer, Patricia L., 2207 Sherman Ave., Rockford, Ill. 61103

Stamm, F. W., 9101 Spokane Way, Louisville 40222

- \*\*Stamm, Mrs. F. W., 9101 Spokane Way, Louisville 40222  
 \*Starr, Dr. Russell, Rt. 7, Glasgow 42141  
 \*Starr, Mrs. Russell, Rt. 7, Glasgow 42141  
 †Steilberg, Mr. and Mrs. Arthur, 5320 Pendleton Rd., Valley Station 40272  
 \*Stewart, Mrs. Elsie P., 2064 Sherwood Ave., Louisville 40205  
 †Stinette, Dr. and Mrs. Kenneth L., Medical Bldg., 201 S. 5th St., Bardstown 40004  
 \*Stoll, Mrs. Charles E., 527 Club Lane, Louisville 40207  
 \*†Strom, Mr. and Mrs. Andrew D., 816 Rogers Court, Ashland 41101  
 Sturm, Paul W., 306 Woodlawn Ave., Murray 42071  
 †Summerfield, Mr. and Mrs. Donald P., 9910 Prairie Drive, Valley Station 40272  
 Sundquist, Chester, 5303 Lost Trail, Louisville 40214  
 †Susie, Mr. and Mrs. Alfred G., 3105 Haddon Rd., Louisville 40222  
 Sutt, Mrs. Lottie E. Van Arsdale, 2129 Speed Ave., Louisville 40205
- Tabler, Mrs. William B., 130 N. Peterson Ave., Apt. 3, Louisville 40206  
 Tafel, Miss Olga, 2921 English Ave., Louisville 40206  
 Tanner, Mrs. Malcolm Z., Box 336, Eddyville 42038
- \*\*Thacher, Mrs. S. Charles, 202 Crescent Ave., Apt. C-1, Louisville 40206  
 †Thacker, Mr. and Mrs. Ralph, Sr., 1738 Freeman Ave., Owensboro 42301  
 §Thacker, Ralph, Jr., 1738 Freeman Ave., Owensboro 42301  
 \*\*Thomas, Mrs. Ben Allen, Chenoweth Farm, Shelbyville 40065  
 \*Thomas, James E., 1714 Model Rd., Louisville 40216  
 Thomas, Mrs. W. G., 1336 Edgewood Drive, Bowling Green 42101  
 †Thompson, Mr. and Mrs. Edwin V., Jr., 15 Poplar Hill Rd., Louisville 40207  
 Tierney, John P., Carter Caves State Park, Olive Hill 41164  
 Trapp, John L., Box 117, Galien, Michigan 49113
- \*†Uterhart, Dr. and Mrs. Andrew H., 1529 S. Limestone St., Lexington 40503  
 Utley, Mrs. Isaac B., 225 Fairview Drive, Henderson 42420
- Van Cleve, G. Bernard, 304 S. Winebiddle St., Apt. 2, Pittsburgh, Pa. 15224  
 Van Der Poel, Miss Johanna, 3510 Newburg Rd., F-6, Louisville 40205  
 Varney, Larry, 4972 Castleton Drive, Fairfield, Ohio 45014
- Warren, Miss Edith, 603 W. 12th St., Owensboro 42301  
 Webster, Conley, 347 Oldham Ave., Lexington 40502  
 †Webster, Dr. and Mrs. Harvey C., 950 S. 47th St., Louisville 40211  
 Weiskerger, Robert, 401 Brookside Drive, Danville 40422  
 §Westerman, Albert, 132 Maple St., Muldraugh 40155  
 †Wetherell, Mr. and Mrs. L. C., 4402 Lincoln Rd., Louisville 40220  
 †Whalen, Mr. and Mrs. Wallace, Rt. 1, Maceo 42355  
 \*Wheeler, Dr. Max E., 1200 Bath Ave., Ashland 41101  
 \*\*Whitt, Prof. A. L., Jr., Dept. of Biology, Eastern Ky. Univ., Richmond 40475  
 †Whitt, Mrs. A. L., Barnes Mill Road, Richmond 40475  
 Wiley, R. Haven, Jr., Rockefeller Univ., York Ave. at 66th St., New York, N.Y. 10021  
 Wilson, Mrs. Eugene, Parkview Drive, Bowling Green 42101

- †Wilson, Mr. and Mrs. L. E., Rt. 4, Box 13, Owensboro 42301  
 Winstandley, Miss Virginia, 1250 Vance Ave., New Albany, Ind. 47150  
 \*Wischmeyer, Eric H., 2314 Meadow Rd., Louisville 40205  
 †Wood, Mr. and Mrs. Guy B., 3506 Autumn Way, Louisville 40218  
 Woolfenden, Lester B., 250 Pecan Drive, Paducah 42001  
 \*\*Wright, Miss Audrey A., 1312 Hepburn Ave., Louisville 40204

- Young, James Boswell, 417 Club Lane, Louisville 40207  
 Zaenglein, Ralph J., 1121 W. Broadway, Maryville, Tenn. 37801  
 †Zollner, Mr. and Mrs. Raymond J., 3126 Dogwood Dr., Louisville 40220  
 Zuercher, Mrs. Helen P., 6813 Old Heady Rd., Jeffersontown 40299

\* \* \* \*

### Libraries, Colleges, Clubs, Etc.

- The Library, American Museum of Natural History, Central Park West  
 at 79th St., New York, N.Y. 10024  
 Beechmont Garden Club, c/o Iroquois Library, 6th and Woodlawn, Louis-  
 ville, Ky. 40214  
 Woodward Library, Serials Dept., Univ. of British Columbia, Vancouver 8,  
 Canada  
 Science Library, E-25-13 Young Hall, c/o Grace Doherty Library, Centre  
 College, Danville, Ky. 40422  
 Colorado State University Libraries, Serials Unit, Ft. Collins, Col. 80521  
 Acquisitions Division, Albert R. Mann Library, Cornell Univ., Ithaca, N.Y.  
 14850  
 Crabbe Library, Periodicals Division, Eastern Ky. Univ., Richmond, Ky.  
 40475  
 Cooke Memorial Library, Georgetown College, Georgetown, Ky. 40324  
 Univ. of Illinois Library, Serials Dept., Urbana, Illinois 61801  
 Librarian, Jeffersontown High School, 9600 Old Six Mile Lane, Jefferson-  
 town, Ky. 40299  
 The Kentucky Library, Julia Neal, Director, Western Kentucky Univ.,  
 Bowling Green, Ky. 42101  
 Ky. Dept. of Libraries, c/o Mrs. Harrison, Reference Dept., Box 537,  
 Frankfort, Ky. 40601  
 Serials Dept., Margaret I. King Library, Univ. of Ky. Lexington, Ky.  
 40506  
 Louisville Free Public Library, 301 Library Place, Louisville, Ky. 40203  
 The Library, Serials Dept., Michigan State Univ., East Lansing, Michigan  
 48823  
 Acquisitions Dept., Mitchell Memorial Library, Mississippi State Univ.,  
 State College, Miss. 39762  
 Johnson Camden Library, Morehead State Univ., Morehead, Ky. 40351  
 The Library, Murray State Univ., Murray, Ky. 42071 V.N. #1  
 Accessions Dept., National Lending Library for Science and Technology,  
 Boston Spa, Yorkshire, England (LS 23 7 BQ)  
 Periodicals Section, New York State Library, Albany, N.Y. 12224  
 Serials Division, Ohio State Univ. Library, 1858 Neil Ave., Columbus,  
 Ohio 43210  
 Owensboro Area Museum, (c/o Mr. Joe Ford), 901 Frederica St., Owens-  
 boro, Ky. 42301  
 Paducah Public Library, 555 Washington St., Paducah, Ky. 42001  
 Serials Unit, Purdue Univ. Libraries, Lafayette, Ind. 47907



Jesse Stuart High School Library, 4601 Valley Station Rd., Valley Station, Ky. 40272

U.S. Dept. of the Interior, Office of the Secretary, Dept. Library, Room 2258, Washington, D.C. 20240

U.S. Dept. of the Interior, Office of Library Services, Acquisitions Branch, Washington, D.C. 20240

U.S. Dept. of the Interior, Fish and Wildlife Service, Patuxent Wildlife Research Center, Laurel, Maryland 20810

Science Library, Western Ky. Univ., Bowling Green, Ky. 42101

Membership as of June 30, 1971.

**Members are urged to report errors in the membership roll to the Treasurer.**

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### EXCHANGES

*American Birds* (National Audubon Society in collaboration with the U.S. Fish & Wildlife Service)

*Atlantic Naturalist* (Audubon Naturalist Society of the Central Atlantic States, Washington, D.C.)

*Audubon Magazine* (National Audubon Society, New York, New York)

*Auk, The* (American Ornithologists' Union, Ithaca, New York)

*Bird-Banding* (Northeastern Bird-Banding Association, Inc.)

*Call Notes* (Huntington Bird Club and Department of Zoology, Marshall College, Huntington, West Virginia)

*Cassinia* (Deleware Valley Ornithological Club, Newtown, Pennsylvania)

*Chat* (Carolina Bird Club, Hillsboro, North Carolina)

*Condor* (Cooper Ornithological Club, Los Angeles, California)

*Florida Naturalist* (Florida Audubon Society, Maitland, Florida)

*Indiana Audubon Quarterly* (Indiana Audubon Society, Indianapolis, Indiana)

*Inland Bird Banding News* (Inland Bird Banding Association)

*Iowa Bird Life* (Iowa Ornithologists' Union, Davenport, Iowa)

*Jack Pine Warbler* (Michigan Audubon Society, Kalamazoo, Michigan)

*Kingbird* (Federation of New York State Bird Clubs, Inc., Albany, New York)

*Living Bird, The* (Cornell Laboratory of Ornithology, Ithaca, New York)

*Loon, The* (Minnesota Ornithologists' Union, Minneapolis, Minnesota)

*Maine Field Naturalist* (Maine Audubon Society and Portland Society of Natural History)

*Massachusetts Audubon* (Massachusetts Audubon Society, Boston, Mass.)

*Migrant* (Tennessee Ornithological Society, Elizabethtown, Tennessee)

*Nebraska Bird Review* (Nebraska Ornithologists' Union, Lincoln, Nebraska)

*New Hampshire Audubon Quarterly* (Audubon Society of New Hampshire, Walpole, New Hampshire)

*Oriole* (Georgia Ornithological Society, Decatur, Georgia)

*Passenger Pigeon* (Wisconsin Society for Ornithology, Madison, Wisconsin)

*Raven* (Virginia Society of Ornithology, Lexington, Virginia)

*Redstart* (Brooks Bird Club, Inc., Wheeling, West Virginia)

*South Dakota Bird Notes* (South Dakota Ornithologists' Union, Huron, S.D.)

*Wildlife Review* (U.S. Fish and Wildlife Service, Laurel, Maryland)

*Wilson Bulletin* (Wilson Ornithological Society, Ann Arbor, Michigan)