

# THE MIGRANT

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# THE MIGRANT

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To encourage and record the study of Tennessee birds.

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Most articles published in THE MIGRANT are written by T. O. S. members and comprise their major contribution toward carrying out the Society's purposes. The Editor, like other officers, receives no remuneration for the considerable work he does so the proper preparation of copy will help toward reducing his work. All manuscript should be typed on one side of 24x11 paper, double spaced, and with good margins. Provide a concise, meaningful title and, where needed, subtitles within the text. Footnotes are not used. Bibliography, when used, should be brief. Examine past issues of THE MIGRANT and follow the style there used, noting that "main articles" and Round Table items are set up differently. Acceptable for inclusion are articles describing the habits of birds as noted from original observations in Tennessee or adjacent areas. Reports on occurrence of unusual species should give full data on the observation so that the record may be evaluated. The value of this publication depends upon the correctness of what it presents so accuracy of statement and identification are obvious requirements. In addition to such articles, are reports on our regularly scheduled projects, such as Spring Migration, Spring Field Counts, Breeding Bird Counts, Hawk Migration, and the Christmas Census. Each of these are reported upon by duly appointed leaders and it is their duty to see that questionable records are eliminated.

# THE MIGRANT

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## WINTER FEEDING HABITS OF THE CAROLINA CHICKADEE

(*Parus carolinensis*)

BY GARY O. WALLACE

The objective of this investigation was to study the winter feeding activities of the Carolina Chickadee (*Parus carolinensis*). This is the time of year when competition for food is probably most severe.

The study was conducted on the University of Tennessee Cherokee Farm, which is located about one mile south of Knoxville. It contains 134 acres with the elevation varying from around 900 to 1200 feet. There is a great diversity of habitat on the study area consisting of pastured fields, open pastured woodlands, dense unpastured woodlands in which a remnant of the original forest still remains (Shanks and Norris, 1950), and a small swampy area. Oaks are by far the predominant tree species on the study area. The following five species of oaks were the most common: *Quercus alba*, *Q. prinus*, *Q. rubra*, *Q. coccinea*, and *Q. velutina*.

### PROCEDURE

The study was carried out from December 1963 through March 1964 with field observations being the only means used to collect data. A record of the field observations on the feeding habits of the Carolina Chickadee was made by using the following system. An arbitrary rule was adopted that as long as a bird remained in one tree, shrub, herb, or on the ground without flying only one record was made. This is much the same system Hartley (1953) used in his study of five species of titmice in England. This system tends to overemphasize shrubs and herbs due to the rapid succession of visits that may be made compared with large trees where birds may feed for some time on the various branches and twigs of each tree.

In trees and larger shrubs the feeding sites were divided into the trunk, limbs (more than five inches in diameter), branches (from one-half inch to five inches in diameter), twigs (less than one-half inch in diameter), foliage, and fruits; records were also made of ground feeding.

The heights of the feeding activities were determined by estimation. The estimates were checked from time to time by the use of a Blume-Leiss altimeter. A check on the estimated heights showed that on the average they differed from the measured heights by plus or minus 13 per cent. The heights

and feeding sites of the birds were recorded where the bird was first seen in an apparent search for food or actually feeding.

### OBSERVATIONS

With its acrobatic ability, the chickadee is able to reach almost inaccessible spots. Food is gleaned from the bark of twigs, branches, and trunks of trees or from their foliage, fruits and flowers.

The chickadees rarely stayed on the ground for any length of time. They would pick up a food item and fly to a perch above the ground. Smith (1967) reported very little ground feeding by the Black-capped Chickadee (*Parus atricapillus*) and no ground feeding by the Chestnut-backed Chickadee (*Parus rufescens*).

Carolina Chickadees were also seen feeding on the stems and tops of weeds. They would peck on the weed stem in a woodpecker-like manner. This was presumably to dislodge pieces of cuticle with insect eggs or to break through into the center of the stem to search for larvae and pupae (Odum, 1942 and Brewer, 1963). During the winter almost all of the weed-feeding time was spent on Tickweed (*Verbesina virginica*).

The use of various plant species by the Carolina Chickadee is shown in Table 1. During December and January, about 50 per cent of the feeding observations was in pines (*Pinus* spp.) and in Tulip Poplar (*Liriodendron tulipifera*). In the pines they fed mostly on twigs and pine cones while much of the feeding in Tulip Poplar apparently involved the ingestion of poplar seeds. They gleaned the bark of oak twigs, branches, limbs, trunks and the bark of shrubs apparently for insect food and lodged seeds. Weed seeds (mostly *V. virginica*) were also commonly eaten. Odum (1942) reported that hemlock seeds were a large item in the fall and winter diet of the Black-capped Chickadee. He also states that feeding on the seeds of herbs took place mainly in October and November. Tanner (1952) reported that seeds were occasionally eaten by the Black-capped and Carolina Chickadees. In this study I saw chickadees eat the berries of Poison Ivy (*Rhus radicans*) quite often in December. In general observations during the fall of 1963, chickadees were seen to eat the berries of the Virginia Creeper (*Parthenocissus quinquefolia*) and Japanese Honeysuckle (*Lonicera japonica*). Throughout the winter the chickadees were seen to peck into pieces of walnuts and hickory nuts that had previously been opened probably by squirrels. They would pick these food items up off of the ground and generally fly up to a low branch. Here they would pin the food item to the branch with their feet while pecking in it with their bill.

The proportion of chickadees feeding in pines, Tulip Poplar, oaks and shrubs decreased slightly in February, but at the same time they almost doubled the frequency of feeding in elms (*Ulmus* spp.). This increased feeding in elms probably was due to the elms beginning to flower in the latter part of February. During March chickadees were feeding only 10 per cent in pines with almost no feeding in Tulip Poplar. What little there was in Tulip Poplar was mostly on twigs and branches. To compensate for the decreased feeding in pines and Tulip Poplar, there was a big increase in feeding in oaks (25 per cent), elms (16 per cent), and shrubs (23 per cent). It seems that they may show some selectivity toward foods and were constantly changing their feeding habits to feed on temporarily abundant foods. Gibb (1954) reported the same type of behavior for titmice in England.

TABLE 1  
UTILIZATION OF PLANT SPECIES BY CAROLINA CHICKADEES

Plant species	December		January		February		March	
	Num- ber	Per cent	Num- ber	Per cent	Num- ber	Per cent	Num- ber	Per cent
<i>Pinus</i> spp.	18	27	122	26	104	19	23	10
<i>Liriodendron tulipifera</i>	16	24	110	24	109	20	4	2
<i>Quercus</i> spp.	7	10	57	12	66	12	56	25
<i>Ulmus</i> spp.	1	2	25	5	56	10	35	16
<i>Carya</i> spp.	1	2	5	1	23	4	11	5
<i>Fagus grandifolia</i>	0	0	9	2	15	3	0	0
<i>Juglans nigra</i>	1	2	5	1	10	2	0	0
<i>Cornus florida</i>	1	2	8	2	6	1	3	1
<i>Acer</i> spp.	2	3	0	0	6	1	8	4
<i>Celtis</i> spp.	1	2	1	0	5	1	5	2
<i>Robinia pseudoacacia</i>	2	3	4	1	2	0	0	0
<i>Oxydendrum arboreum</i>	4	6	3	1	0	0	0	0
Shrubs	2	3	56	12	55	10	52	23
Vines	4	6	21	5	36	6	3	1
Weeds	3	4	16	3	28	5	8	4
Dead snags	0	0	0	0	5	1	2	1
Others	3	4	24	5	31	5	13	6
Totals	66	100	466	100	557	100	223	100

TABLE 2  
CHICKADEES (IN FEET)  
FEEDING HEIGHTS ABOVE GROUND OF CAROLINA

<i>Height</i>	<i>December</i>	<i>January</i>	<i>February</i>	<i>March</i>
0-9	19%	18%	23%	25%
10-19	16	19	19	21
20-29	22	18	17	19
30-39	16	10	15	15
40-49	8	15	11	13
50-59	5	11	8	5
60-69	11	6	4	2
70-up	3	3	3	0

During December, chickadees foraged below 20 feet 35 per cent of the time (Table 2). There was a small but progressive increase in feeding below 20 feet during January, February and March. In March the chickadees foraged below 20 feet 46 per cent. This increased feeding at low levels reflects an increase in feeding in shrubs (Table 1).

The feeding sites that the chickadees spent the greatest amount of time on during January and February were branches, twigs and seeds (Table 3). In March the per cent of time feeding on twigs almost doubled. It jumped from 27 per cent in February to 50 per cent in March. There was a corresponding decrease in seed feeding. This increased feeding on twigs in March probably was due to the opening of the young buds and the insects that collected around the buds as the weather became warmer. Odum (1942) reported that Black-

TABLE 3  
FEEDING SITES OF THE CAROLINA CHICKADEES

<i>Feeding site</i>	<i>January</i>		<i>February</i>		<i>March</i>		<i>Combined data</i>	
	<i>Num-ber</i>	<i>Per cent</i>	<i>Num-ber</i>	<i>Per cent</i>	<i>Num-ber</i>	<i>Per cent</i>	<i>Num-ber</i>	<i>Per cent</i>
Trunk	29	10	44	10	6	4	79	8
Limb	24	8	12	3	4	2	40	4
Branch	79	26	115	25	49	29	243	26
Twig	79	26	124	27	84	50	287	31
Fruit	71	23	125	27	5	3	201	22
Foliage	18	6	7	1	1	1	26	3
Ground	4	1	30	7	18	11	52	6
Totals	304	100	457	100	167	100	928	100

capped Chickadees foraged more on seeds and twigs during winter. Brewer (1963) found that both the Black-capped and Carolina Chickadees spent a greater per cent of time foraging on small rather than large branches the year round.

#### SUMMARY

There seems to be a succession of foods available to the chickadees throughout the winter. Apparently they show some selectivity toward foods and from time to time change their feeding habits to forage on temporarily abundant foods.

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T.O.S. STATE MEETING  
COOKEVILLE, TENNESSEE  
MAY 10 - 11 - 12, 1968

## THE 1967 CHRISTMAS SEASON BIRD COUNT

BY TOS MEMBERS AND GUESTS

The thirty-eighth annual Christmas Season Bird Count listed 120 species. This exceeds last year's count by one species and ranks third among the higher counts for the state. The largest number of species recorded on our Christmas Census occurred in 1965 with 130 species observed throughout the state. The years 1954, 1955, and 1960 each produced 122 species. No species which had not been previously observed on Christmas Counts in the state was recorded this year.

Northern finches were noticeably absent from most areas on this year's count. Only The Smokies reported Evening Grosbeak, Pine Siskin, and Red Crossbill; however, the Purple Finch was fairly well distributed across the state. The relative mild weather, with little or no snow, may have resulted in the late presence of such species as the House Wren, Catbird, and Palm Warbler, which were noted on this count. Other species of interest include the Black-crowned Night Heron, Greater Scaup, Harlan's Hawk, and Long-eared Owl. All species of owls which have occurred within the state, with exception of the Saw-whet and Snowy, were reported on this count.

## INFORMATION ON THE COUNTS

Fourteen areas, including one high altitude area, conducted counts this year. In the table and information which follow, the areas are listed in order of their occurrence from west to east. Because of its brevity, the one high altitude count is described fully, with a list of species observed, in its appropriate place. Information on unusual species should be found under the area headings where they occurred. The list of species in the table is an AOU Check-list order in conformation with the fifth AOU *Check-list of North American Birds*.

MEMPHIS—Roughly 1953 areas; wooded bottomlands 30%, deciduous woods, city parks and cemeteries 28%, pastures, bare fields 15%, suburban roadsides 25%, river edge 2%. 23 Dec., 6:45 a.m. to 5 p.m.; clear; temp. 21° to 37°F; wind NNW 0-13 mph; 20 observers in 9 parties. Total party-hours 80 (60 on foot, 20 by car); total party-miles 171 (56 on foot, 115 by car). Harlan's Hawk (LC), LeConte's Sparrow (BC). Seen in area, count period, but not on count day: Redhead 2, Turkey Vulture 1, Water Pipit 37, Western Meadowlark 2. Mr. and Mrs. Ben B. Coffey, Jr. (compilers), Mr. and Mrs. Henry Dinkelspiel, Jack Embury, Earl J. Fuller, Billy C. Grimm, Robert Holt, Lee R. Johnson, Edward M. King, Robert W. McGowan, Chas. McPherson, Bob Moore, Nelle More, Mrs. Paul C. Owen, Alice Smith, Dr. and Mrs. Arlo I. Smith, Mrs. M. L. Torti, Mr. and Mrs. Chas. Wilmeth, Dr. Lyndal York.

REELFOOT LAKE—36° 25' N, 89° 23' W (all points within a 15-mile diameter circle, centering at a point in Reelfoot Lake on the west side of Starve Pond, extending northward to the north end of Lake 9 in Kentucky, eastward to bridge on South Reelfoot Creek near Protemus and to the town of Hornbeak, southward to the north end of Lake Isom refuge, westward to Mississippi River; deciduous woods 30%, fields, pastures 50%, lakes, swamps 10% river 5%, towns 5%. 30 Dec., 6:00 a.m. to 5:00 p.m.; cloudy all day; temp. 20° to 32°; wind NE-E, 5 to 15 mph; lake frozen over and mostly inaccessible.

# THE 1967 CHRISTMAS SEASON BIRD COUNTS

	Wright	Burlingame	Lawrence	Calcutt	Nashville	Lakewood	Cookeville	Chattanooga	Memphis	Knoxville	MEMPH	Elizabeth	Bristol
Common Loon	--	--	10	--	--	--	--	--	--	--	--	1	10
Horned Grebe	--	--	6	--	--	--	--	5	--	--	--	2	12
Pied-billed Grebe	3	2	20	9	3	--	--	3	--	--	--	1	7
Double-crested Cormorant	--	--	--	--	--	--	--	--	--	1	--	--	7
Great Blue Heron	--	4	--	14	--	101	--	1	11	2	--	1	7
Black-crowned Night Heron	--	--	--	--	--	--	--	--	1	--	--	--	--
Canada Goose	--	2,476	--	--	--	--	--	2	1,211	--	--	--	--
Blue Goose	1	--	--	--	--	--	--	--	--	--	--	--	--
Mallard	22	267	--	67	1	10,600	--	92	191	1	--	26	93
Black Duck	--	10	--	28	--	1,300	--	105	205	--	--	--	139
Gadwall	9	12	--	--	--	--	--	198	--	26	--	--	1
Pintail	--	13	--	1	--	200	--	--	10	--	--	--	--
Green-winged Teal	--	--	--	7	--	400	--	2	2	--	--	--	--
Blue-winged Teal	--	--	--	--	--	200	--	--	--	--	--	--	--
American Widgeon	--	10	--	29	--	--	--	2	250	--	--	--	--
Shoveler	--	--	--	12	--	--	--	--	--	--	--	--	--
Wood Duck	6	6	2	2	--	--	--	7	--	--	--	--	--
Redhead	--	--	--	2	--	500	--	--	--	--	--	--	1
Ring-necked Duck	69	1	--	68	21	--	--	2	12	1	--	2	--
Canvasback	--	--	--	2	8	--	--	--	--	--	--	--	--
Greater Scaup	--	--	--	--	--	--	--	3	--	--	--	--	--
Lesser Scaup	--	8	--	12	19	--	--	--	18	--	--	7	--
Common Goldeneye	2	2	12	--	15	--	--	9	10	1	--	1	--
Bufflehead	--	--	22	--	--	--	--	--	80	1	--	68	6
Ruddy Duck	--	--	--	--	--	--	--	--	--	--	--	--	3
Hooded Merganser	--	13	--	1	--	--	--	--	1	5	--	1	--
Common Merganser	--	--	--	--	--	--	--	--	--	1	--	--	--
Turkey Vulture	--	--	--	--	2	--	1	--	2	--	--	--	26
Black Vulture	--	18	--	9	1	--	--	--	--	--	--	--	48
Sharp-shinned Hawk	--	--	--	--	2	--	--	--	--	--	1	--	--
Cooper's Hawk	--	2	--	--	1	--	--	--	1	--	--	--	--
Red-tailed Hawk	32	22	1	0	12	1	4	7	2	13	4	--	2
Parula's Hawk	1	--	--	--	--	--	--	--	--	--	--	--	--
Red-shouldered Hawk	1	7	--	--	--	--	--	--	--	--	--	--	--
Bald Eagle	--	36	--	2	1	--	--	1	--	--	--	--	--
Marsh Hawk	2	9	--	2	--	--	--	--	--	--	--	--	--
Sparrow Hawk	12	13	2	10	41	--	7	4	1	8	5	4	13
Ruffed Grouse	--	--	--	--	--	--	--	--	--	--	--	3	--
Bobwhite	104	--	2	31	54	15	25	60	13	75	61	5	9
Turkey	2	--	--	--	--	--	--	--	--	--	--	--	--
American Coot	1	93	198	650	101	--	--	176	--	--	--	--	--

	Memphis	Reelfoot	Stovall	Colquhoun	Nashville	Lebanon	Cookeville	Chattanooga	Highway	Knoxville	OSMNP	Kittanning	Bristol
Killdeer	54	2	1	6	33	1	4	16	83	78	47	8	22
American Woodcock	1	--	5	--	--	--	--	1	--	--	--	--	--
Common Snipe	26	2	2	14	--	--	1	21	2	21	3	7	1
Spotted Sandpiper	--	--	1	--	--	--	--	--	--	--	--	--	--
Dunlin	--	--	--	--	--	--	--	--	40	--	--	--	--
Herring Gull	--	--	--	--	--	1	--	16	1	2	--	--	7
Ring-billed Gull	60	215	3	--	--	--	--	67	6	355	--	--	15
Mourning Dove	188	99	114	254	140	52	130	202	48	207	162	12	78
Barn Owl	--	--	--	--	--	--	--	1	--	--	--	--	--
Screech Owl	--	--	1	--	1	--	--	2	--	2	--	3	3
Great Horned Owl	--	1	--	2	2	--	--	1	2	3	1	--	--
Barned Owl	4	3	--	--	--	1	--	--	1	--	--	--	--
Long-eared Owl	--	--	--	--	--	--	--	1	--	--	--	--	--
Short-eared Owl	1	--	--	--	--	--	--	--	--	--	--	--	--
Belted Kingfisher	2	4	1	11	11	1	--	11	4	14	21	6	12
Yellow-shafted Flicker	202	49	19	19	63	5	15	44	5	38	9	3	3
Pileated Woodpecker	16	15	9	12	33	1	3	7	3	6	25	5	6
Red-bellied Woodpecker	73	58	12	28	99	6	10	24	3	21	5	2	2
Red-headed Woodpecker	15	14	1	--	7	1	1	1	1	4	--	1	--
Yellow-bellied Sapsucker	40	10	3	14	32	2	1	7	--	10	19	--	2
Hairy Woodpecker	24	8	1	7	12	1	6	4	--	5	16	1	2
Downy Woodpecker	64	24	12	31	68	5	14	15	--	33	31	19	5
Eastern Phoebe	--	--	1	--	1	--	--	--	1	1	11	1	1
Horned Lark	98	21	--	1	79	50	--	12	--	8	5	1	93
Blue Jay	328	66	47	35	219	79	104	280	24	156	57	57	68
Common Raven	--	--	--	--	--	--	--	--	--	--	7	--	--
Common Crow	43	791	52	90	1,264	49	72	428	32	976	344	226	479
Fish Crow	172	3	--	--	--	--	--	--	--	--	--	--	--
Black-capped Chickadee	--	--	--	--	--	--	--	--	--	--	--	--	--
Carolina Chickadee	196	81	16	80	189	29	24	74	8	139	{ 211	40	51
Tufted Titmouse	55	45	16	41	143	37	47	111	5	60	--	24	18
White-breasted Nuthatch	1	6	2	--	4	--	9	8	--	1	6	1	3
Red-breasted Nuthatch	--	--	--	--	--	--	--	4	--	--	11	--	--
Brown Creeper	4	3	--	--	9	--	2	2	--	11	14	1	1
House Wren	1	--	--	--	--	--	--	--	--	--	--	--	--
Winter Wren	10	1	2	1	1	--	--	--	--	5	18	1	1
Sewick's Wren	--	2	3	2	4	3	6	--	7	--	--	--	15
Carolina Wren	133	46	17	19	54	14	14	36	--	54	32	22	24
Mockingbird	169	30	7	21	177	35	18	159	12	154	22	32	42
Catbird	--	--	--	--	--	--	--	--	--	--	2	--	--

	March	April	May	June	July	August	September	October	November	December	GSMP	Elizabeth	Total
Brown Thrasher	15	1	--	--	3	4	8	17	16	--	1	--	--
Robin	3,332	6	23	5,000	9,562	1,000,000 <sup>a</sup>	136	243	3	89	337	45	9
Permit Thrush	22	6	4	1	1	--	3	--	--	1	3	--	1
Eastern Bluebird	8	1	5	17	72	11	12	24	9	11	24	1	3
Golden-crowned Kinglet	56	5	10	--	5	--	4	23	12	174	165	20	23
Ruby-crowned Kinglet	94	4	5	1	5	--	--	10	7	10	41	3	5
Water Pipit	--	--	--	--	--	--	--	1	6	--	--	--	--
Cedar Waxwing	51	--	54	32	119	28	18	15	--	86	87	36	44
Logger-head Shrike	19	25	3	9	39	1	4	8	1	8	13	3	12
Sterling	8,568	5,150	160	30,000	9,440	423	970	2,756	240	1,890	557	891	2,313
Myrtle Warbler	183	--	10	14	66	--	--	20	7	85	23	43	12
Pine Warbler	--	--	--	--	--	--	--	1	--	1	--	--	--
Palm Warbler	--	--	--	--	--	--	--	3	--	--	8	--	--
House Sparrow	496	522	10	250	218	333	262	260	1	127	109	144	109
Eastern Meadowlark	248	116	25	85	343	150	42	260	9	190	181	9	351
Redwinged Blackbird	4,520	520,000	375	602	58	5	2	1,045	56	38	18	--	20
Rusty Blackbird	32	--	200	143	29	--	26	171	--	50	3	--	24
Brewer's Blackbird	30	--	--	--	--	--	--	--	--	--	--	--	--
Common Grackle	8,372	70,000	420	50,000	32,039	33	6,768	127	--	13	12	9	9
Brown-headed Cowbird	2,737	70,000	--	200	25	--	7	58	25	20	--	--	39
Cardinal	606	188	58	105	426	213	136	389	19	256	138	151	112
Evening Grosbeak	--	--	--	--	--	--	--	--	--	--	7	--	--
Purple Finch	24	--	3	1	24	1	26	35	25	55	23	--	--
Pine Siskin	--	--	--	--	--	--	--	--	--	--	26	--	--
American Goldfinch	133	42	206	28	211	--	6	165	26	187	156	53	78
Red Crossbill	--	--	--	--	--	--	--	--	--	--	5	--	--
Rufous-sided Towhee	78	2	84	74	92	16	76	116	9	77	31	33	11
Savannah Sparrow	62	6	--	18	5	--	--	3	10	2	--	--	--
Le Conte's Sparrow	1	--	--	--	--	--	--	--	--	--	--	--	--
Vesper Sparrow	--	1	--	--	--	--	--	9	--	--	--	--	--
Slate-colored Junco	958	230	184	32	693	76	32	406	24	102	246	53	121
Tree Sparrow	--	1	--	--	--	--	--	--	--	--	--	--	--
Chipping Sparrow	--	--	4	--	--	--	2	8	--	--	--	--	--
Field Sparrow	272	68	23	31	559	12	51	337	38	166	129	61	126
White-crowned Sparrow	38	24	--	31	23	30	10	17	2	2	--	3	4
White-throated Sparrow	1,003	119	137	41	145	11	76	263	47	205	273	61	39
Pox Sparrow	146	3	1	3	6	--	1	7	--	--	1	--	2
Swamp Sparrow	138	173	21	35	18	--	--	44	18	9	23	2	1
Song Sparrow	335	95	22	47	226	4	18	102	27	116	150	55	56
TOTAL INDIVIDUALS	34,824	671,527	2,675	88,457	57,381	1,014,986	9,211	9,182	2,949	6,486	3,943	2,288	4,831
TOTAL SPECIES	72	73	62	68	67	48	47	80	65	66	59	54	64

<sup>a</sup> Estimate

14 observers in 5 parties, total party-hours 43 (15 on foot, 28 by car); total party-miles 223 (14 on foot, 209 by car). Jack Clemmons, Evelyn Cole, Eugene Cypert (compiler), Mary Louise Cypert, Druey E. Davis, John L. DeLime, William C. Kemp, Edwin Larson, Janice Leggett, Kenneth Leggett, Clell T. Peterson, Arlo Smith, Noreen Smith, Bettie Sumara.

SAVANNAH—20 Dec., 6 a.m. to 6 p.m.; Savannah, Harbert Hills Academy, Pickwick Dam, within a 15-mile diameter circle centered 6 miles SE of Savannah courthouse; fog and scattered showers all day; temp. 60° to 65°, no wind; widespread flooding may have scattered the ducks. The Spotted Sandpiper was at the same location as our 18 Feb. 1967 and 23 Nov. 1967 sightings. It landed about thirty feet from our party. Mike Barber, David Patterson (compiler), Mike Patterson.

COLUMBIA—30 Dec., 8 a.m. to 6 p.m.; same area as in previous years, center 1 mile West of Zion Church. Temp. 24° to 34°; low overcast, poor visibility, some ponds frozen, patches of snow on ground; wind NW 2-5 mph. William Dale, William Fuqua, Daniel Gray, Jr., Cleo Mayfield, Mrs. George Mayfield, Sr., George Mayfield, Jr. (compiler).

NASHVILLE—A 15-mile circle centered on the Harpeth River bridge over Tenn. Highway 100. Included were Radnor Lake, deciduous wooded hills 40%, fields and pastures 25%, riverbottom fields 20%, roadsides and suburban yards, including 10 feeding stations 15%. 30 Dec., 6:30 a.m. to 5:00 p.m.; temp. 18° to 20°; wind W 0-3 mph; overcast with most trees covered with frost, two inches of snow cover and small water areas frozen. 27 observers in 9 parties; party-hours 73 (35 on foot, 38 by car); party-miles 234 (37 on foot, 197 by car). Francis Abernathy, Mr. and Mrs. Wm. F. Bell, Sr., Mike Bierly, Ruth Castles, Annella Creech, Charles Dewitt, Milbrey Dugger, Mr. and Mrs. John O. Ellis, Erline Elmore, Pat Floyd, Albert F. Ganier, Katherine A. Goodpasture, Steve Greenfield, Ben Groce, Mrs. A. B. Herron, Mr. and Mrs. John S. Herbert, Louise Jackson, Harry C. Monk, Fanny Murphy, Henry E. Parmer (compiler), Jennie Riggs, Ellen Stringer, Lawrence O. Trabue, Mary Wood, Mr. and Mrs. George Woodring.

LEBANON—Noon 28 Dec. to noon 29 Dec.; all points within a 15-mile diameter circle, Lebanon square center, including Mt. Juliet, Canoe Branch Area, Lock 5 (Old Hickory Lake), Watertown and Bairds Mill Area. 20° to 30°, snow cover, heavy clouds until last two hours of count when sun came out, no wind of consequence, no precipitation. Doug Allen, J. M. Ashworth, Mrs. Thelma Bain, Mrs. Sidney Berry, Mrs. Winstead Bone, Jr., Mrs. Geo. Bouton, Bill Breedlove, Miss Margaret Campbell, Miss Martha Campbell, Mrs. Lewis Chambers, Mr. and Mrs. Clay Couch, Mrs. Robert Cox, Gordon Denney, Mrs. Carter Farris, Mrs. Mildred Gaston, Mrs. Sam Gilreath, Mrs. J. H. Hagan, A. C. Hill, Mrs. Roy Hobbs, Mary Horton, Dr. and Mrs. M. S. Howard, Mrs. Mary Howard, Mr. and Mrs. Paul S. Hunton, Mrs. Jerry McFarland, Mrs. Sam McFarland, Mrs. J. W. Lawrence, Mr. and Mrs. Dixon Merritt, Henry Oldfield, Mr. and Mrs. Byron Paul, Sam Swindell, Mrs. Spurgeon Thompson, Mr. and Mrs. Willie Taylor, Mrs. Phillips Turner, Mrs. Henry Waters (compiler), Mrs. William Welty, W. F. Young.

COOKEVILLE—29 Dec., 6:30 a.m. to 4:30 p.m.; areas included were within the 15-mile diameter circle of the town. Yard and garden space, open

fields and woods, city-lake area, and swamp were represented. Six inches of snow; 29° to 34°; no wind; overcast in a.m. Dr. and Mrs. J. O. Cummins, Caprice Haile, R. D. High, Roy Hinds, Dr. Paul Hollister, Amy Johnson, Elizabeth Killeffer, Dr. and Mrs. Sidney L. McGee, Miser R. Richmond, Thelma Tinnon, F. R. Toline, Robert Toline, Chrissa Wendt, Marie White (compiler).

CHATTANOOGA—31 Dec., 5:15 a.m. to 6:15 p.m.; center of 15-mile diameter circle on the National Cemetery; fields and pastures 35%, woodlands 20%, ponds and lakes 15%, creeks and rivers 15%, roadsides 10%, and residential 5%. Heavy fog and light rain during the a.m., fog lifting with widely scattered light drizzle in the p.m.; the U. S. Weather Bureau at Lovell Field recorded 0.35 inches of precipitation for the day. Temp. 33° to 42°; wind NNW, 2-6 mph. 21 observers in 13 parties; total party-hours 81 (29 on foot, 52 by car); total party-miles 519 (41 on foot, 478 by car). The Greater Scaup were found by DeVore on Chickamauga Lake. The birds, all of which were adult males, were studied for thirty minutes with 20x and 32x scope. The general contour of the head, the extensive white on the sides, and the definite white wing stripe, extending nearly to the wing-tip, were easily noted as the birds fed and preened themselves. The Long-eared Owl was heard calling in a large pine-hardwood forest area adjacent to the Tyner Minnow Ponds swamp by DeVore. The characteristic single hoot, spaced at 2 to 5 second intervals, was heard from 6:05 a.m. to 6:45 a.m. Francis Barnwell, Hugh W. and Maxine Crownover, Jon E. DeVore (compiler), Kenneth H. Dubke, Edith Fenn, Dr. John R. and Charlotte Freeman, Howard and Mary Lou Meadors, Eugene and Eva Ranger, Theo L. Rogers, Veta Sliger, Doug and Mary Tunsberg, Jack Wagner, Mark Wagner, Adele and Gene West, Mrs. C. S. Wilcox.

HIWASSEE RIVER—19 Dec., 6:45 a.m. to 6:15 p.m.; center of 15-mile diameter circle on State Highway 58 bridge at the Hiwassee River; agricultural fields 30%, deciduous woods 30%, creeks and rivers 15%, residential areas 10%, roadside and weedy areas 10%, evergreen woods 5%. Area includes the Hiwassee Island State Waterfowl Refuge on the western edge of the circle and the Candies Creek Management Area to the eastern edge. Heavy fog and scattered light rain during the a.m., clearing with heavy scattered clouds in the p.m.; temp. 51° to 66°; wind SSW, 2-15 mph. Two observers in two parties; total party-hours 23 (17 on foot, 6 by car); total party-miles 236 (36 on foot, 200 by car). The Black-crowned Night Heron was found in heavy growth along the Hiwassee River at the State Highway 58 bridge. The bird was studied leisurely at 25 feet while it was perched in a bush and also when it was in flight. Jon E. DeVore (compiler), Kenneth H. Dubke.

KNOXVILLE—Same area as in previous years, in a 15-mile circle centered on Oak Ridge Hwy. at Third Creek: woods 18%, fields and pastures 24%, roadsides 34%, lake and streamsides 13%, suburbs 11%. 23 Dec., 6:30 a.m. to 6 p.m.; partly cloudy to clear; temp. 18° to 32°; wind zero to 10 mph. from north. 17 observers in 11 parties; total party-hours 95 (75 on foot, 20 by car); total party-miles 304 (53 on foot, 251 by car). The Double-crested Cormorant was found by J. T. Tanner on Fort Loudon Lake. J. M. Campbell, Danny Ellis, John Elson, Maurice Grigsby, J. C. Howell, Susan Hoyle, Janera Jones, Tony Koella, Chris McMillan, Mr. and Mrs. R. A. Monroe, Jane Orleans, Hollie Overton, Mabel Sanders, Boyd Sharp, Ed Smith, J. T. Tanner (compiler).

GREAT SMOKY MOUNTAINS NATIONAL PARK, TENN.-N. C.—30 Dec., 6:30 a.m. to 6:00 p.m.;  $35^{\circ}$   $40'N$   $83^{\circ}$   $29'W$ . All points within a 15-mile diameter circle, centered on Bullhead to include US 441 Pigeon Forge to Kephart Prong; Tenn 73 Pittman Center to Metcalf Bottoms; Appalachian Trail Clingmans Dome to Newfound Gap; West and Middle Prongs Little Pigeon River; Little River; Emerts Cove; Wears Cove; Roaring Fork and LeConte Creek; Andrews Bald; pine-oak woods 30%, fields 20%, stream courses 20%, spruce-fir forests 25%, towns 5%. Temp.  $20^{\circ}$  to  $44^{\circ}$ ; wind variable, 0-12 mph; clear to partly cloudy; 4-5 inches snow in highest elevations, no precipitation. Fred J. Alsop, III, James Campbell, Robert Dunbar, Danny Ellis, Lloyd Foster, Roger Foster, Maurice Grigsby, Dr. J. C. Howell, Miss Susan Hoyle, Tony Koella, Miss Helen K. Lewis, Henry Lix, David MacLeod, Mrs. George W. McGowan, Mr. and Mrs. Robert A. Monroe, Miss Julia Moore, Miss Louise Nunnally, Mrs. Earle Rankin, Mrs. E. T. Richards, Lynn Satterfield, Steve Satterfield, A. Boyd Sharp, Jr., Ed Smith, Arthur Stupka, Mrs. Arthur Stupka, Mrs. Maxie Swindell, Thomas Swindell, Dr. James T. Tanner, Richard C. Zani (compiler).

ELIZABETHTON—31 Dec., 7:00 a.m. to 5:00 p.m.; the same area was covered as in previous years. Light rain mixed with sleet and snow during a.m., turning to light rain in p.m.;  $34^{\circ}$  to  $38^{\circ}$ ; wind light and variable. Total party-hours 38 (17 on foot, 21 by car); total party-miles 193 (16 on foot, 177 by car). Fred W. Behrend, Mr. and Mrs. John Bond, William A. Bridgforth, Jr., Ed Davidson, Mrs. Harold Dillenbeck, Joy Dillenbeck, Mr. and Mrs. C. W. Fairbanks, Dr. and Mrs. Lee R. Herndon, Roby D. May, Charles R. Smith (compiler).

BRISTOL, TENN.-VA.—All points within a 15-mile diameter circle, center at junction of U.S. 11 and Route 625, to include Bristol, South Holston Lake and river; fields and farmland 40%, mixed deciduous forest 25%, lakes and rivers 15%, towns and residence 10%, misc. 10%. 30 Dec., 7:05 a.m. to 5:45 p.m.; clear; temp.  $16^{\circ}$  to  $40^{\circ}$ ; wind NE, 0-7 mph; trace of snow cover, waters mostly open. Nine observers in 4 parties; total party-hours  $29\frac{1}{2}$  (16 on foot,  $11\frac{1}{2}$  by car, 2 by boat); total party-miles 241 (16 on foot, 208 by car, 17 by boat). Judith Abbott, Fletcher Bingham, Wallace Coffey, Gerry Delantonas (compiler), David McPeak, Bob Quillen, William R. Senter, Enno vanGelder, Roger vanGelder.

ROAN MOUNTAIN, TENN.-N. C.—20 Dec., 7:30 a.m. to 5:00 p.m.; all points within a 15-mile diameter circle, center Carvers Gap, to include Round Bald, Balsam Road, Rhododendron Gardens (altitude range 5500-6250'); grass bald 15%, rhododendron, mountain alder, briar 5% balsam-spruce forest 50%, deforested balsam area 30%. Clear to partly cloudy with some fog;  $45^{\circ}$  to  $55^{\circ}$ ; wind NW-W, 3-12 mph. Total party-hours,  $9\frac{1}{2}$  (all on foot); total party-miles 9 (all on foot). Fred W. Bahrend (observer and compiler). Ruffed Grouse (1), Blue Jay (3), Common Raven (2) Common Crow (2), Red-breasted Nuthatch (1), Winter Wren (1), Robin (73), Golden-crowned Kinglet (2), Cedar Waxwing (2), American Goldfinch (2), Slate-colored Junco (19). Total: 11 species, about 108 individuals.

## THE SEASON

CHARLES R. SMITH, *Editor*

The months of September, October, and November brought variable weather conditions across the state. It was generally agreed that November was wetter than usual and that the average rainfall for September was slightly lower than usual in most areas. October experienced only a very slight increase in rainfall over that of September. Memphis reported "slightly above normal" temperatures during the report period. Both Nashville and Savannah reported that the weather was normal for the period, with little deviation in temperature and rainfall. East Tennessee experienced temperatures which were a little cooler than usual, based on U. S. Weather Bureau data.

The fall migration was not outstanding in most respects throughout the state. Movements of warblers and waterfowl were reported to be slow and not especially noticeable. No influx of northern finches has yet been noted; a few records are available from Roan Mountain in Upper East Tennessee. The Chattanooga area reported a good shorebird migration as evidenced by their report; however, Nashville reported that shorebirds were very few in number in that area.

Some outstanding observations within the state follow: White Pelican, Cattle Egret, Pigeon Hawk, Orange-crowned Warbler, and Western Meadowlark from Reelfoot; Yellow Rail, Connecticut Warbler, and Mourning Warbler from Nashville; Greater Scaup from Chattanooga; American Avocet and Connecticut Warbler from Elizabethton. Some very interesting records from neighboring states may also be found in the Memphis and Bristol reports. Details of these observations and others of interest may be found in their respective reports.

**MEMPHIS**—*Grebes-Shorebirds*: Horned Grebe: 29 Oct. (1) HLA (LC), 4 Nov. (1) LO (BC, MS), 5 Nov. (4) LA (BC), 12 Nov. (1) HLM (BC), 19 Nov. (3) HLA. White-fronted Goose: 15 Oct. (1) LA (DJ, BC). Pigeon Hawk: 4 Nov. (1) LO (BC, MS), American Golden Plover: 12 Nov. (2) LA (LC, BC). Baird's Sandpiper: 4 Nov. (3) LO (BC, MS). Least Sandpiper: 5 Nov. (8) PF, 12 Nov. (12) LVW. Dunlin: 19 Nov. (1) LA, (2) LW, (1) HLA all (BC). Dowitchers: none. Stilt Sandpiper: 29 Oct. (6) LA (LC, BC, AS), 4 Nov. (1) LO (BC, MS). Western Sandpiper: 12 Nov. (2) LA (BC). Avocet: 29 Oct. (1) LA (BC, LC, AS).

*Swallows-Sparrows*: Tree Swallow: 12 Nov. (3) HLA (BC, LC). Barn Swallow 12 Nov. (3) HLA (BC, LC). Sharp-tailed Sparrow: 12 Nov. (1) LVW (BC). Lapland Longspur: 12 Nov. (40), 19 Nov. (240), LA (LC, BC), 21 Nov. (3,000) SAB (BC, LC). Smith's Longspur: 12 Nov. (1) LVW (BC).

*Locations*: HLA—Horseshoe Lake, Ark.; HLM—Horn Lake, Miss. (the lake, not the town); LA—Lake Alpe, Booker, Ark.; LO—Lonoke, Ark.; LVW—Lakeview, Miss. (at Horn Lake and Walls); LW—Lake Waponocca, Turrell, Ark.; PF—Shelby County Penal Farm, Tenn.; PL—Porter Lake, Ark.; SAB—old AAF base, Stuttgart, Ark.

*Observers*: BC, LC—Mr. and Mrs. Ben B. Coffey, Jr., DJ—Douglas James, AS—Alice Smith, MS—Merit Skaggs, Willoughby, Ohio.

BEN B. COFFEY, JR., 672 North Belvedere, Memphis 38107.

REELFOOT—*Grebes-Mergansers*: Pied-billed Grebe: 29 Oct. (4) RL (EC). White Pelican: 22 Oct. (1) TF (BS). Great Blue Heron: 22 Oct. (2) RL (MEM). Cattle Egret: 28 Oct. (1) NT (WL). Canada Goose: 28 Sept. (19), 16 Nov. (5600) RL (REF). Snow Goose: 12 Oct. (1) RL, 30 Nov. (2) RL (REF). Blue Goose: 12 Oct. (1), 2 Nov. (3) RL (REF). Mallard: 14 Sept. (95), 16 Nov. (65,400) RL (REF). Black Duck: 19 Oct. (120), 16 Nov. (1050) RL (REF). Pintail: 21 Sept. (115), 2 Nov. (2900) RL (REF). Green-winged Teal: 26 Oct. (4400) RL (REF). Blue-winged Teal: 21 Sept. (5350), 16 Nov. (35) RL (REF). American Widgeon: 21 Sept. (45), 19 Oct. (24,600) RL (REF). Shoveler: 23 Nov. (3100) RL (REF). Wood Duck: 10 Oct. (4850) RL (REF). Redhead: 19 Oct. (10), 30 Nov. (80) RL (REF). Ring-necked Duck: 12 Oct. (65), 9 Nov. (13,200) RL (REF). Canvasback: 23 Nov. (75) RL (REF). Lesser Scaup: 19 Oct. (130) RL (REF). Common Goldeneye: 30 Nov. (70) RL (REF). Bufflehead: 30 Nov. (85) RL (REF). Ruddy Duck: 19 Oct. (300), 9 Nov. (650) RL (REF). Hooded Merganser: 30 Nov. (25) RL (REF). Common Merganser: 9 Nov. (20) RL (REF).

*Hawks-Sparrows*: Red-tailed Hawk: 22 Oct. (3) RL (MEM). Red-shouldered Hawk: 22 Oct. (1) RL (MEM). Bald Eagle: 29 Oct. (1) RL (EC). Marsh Hawk: 21 Oct. (4) RL (MEM). Pigeon Hawk: 22 Oct. (1) RL (MEM). American Coot: 14 Sept. (325), 2 Nov. (35,000) RL (REF). American Golden Plover: 21 Oct. (1) CT (BC, LC). Common Snipe: 22 Oct. (3) RL (MEM). Spotted Sandpiper: 21 Oct. (1) CT (BC). Least Sandpiper: 26 Oct. (6) RL (MEM). Yellow-billed Cuckoo: 22 Oct. (1) RL (MEM). Short-eared Owl: 21 Oct. (1) CT (BC). Common Nighthawk: 8 Oct. (7) TIP (BS). Winter Wren: 22 Oct. (1) RL (MEM). Wood Thrush: 22 Oct. (1) RL (MEM). Hermit Thrush: 22 Oct. (3) RL (MEM). Orange-crowned Warbler: 22 Oct. (1) RL (MEM). Western Meadowlark: 6, 13, 25 Nov. (1) TIP (MLC). Fox Sparrow: 22 Oct. (1) RL (MEM).

*Locations*: CT—Cates, NT—North of Tiptonville, RL—Reelfoot Lake, TIP—Tiptonville, TF—Tiptonville Ferry.

*Observers*: BC—Ben Coffey, LC—Lula Coffey, EC—Eugene Cypert, MLC—Mary Lou Cypert, WL—William Lindamood, MEM—Memphis Chapter TOS, REF—Reelfoot National Wildlife Refuge census figures, BS—Betty Sumara.

EUGENE CYPERT, 813 Foster Street, Tiptonville 38079.

SAVANNAH—*Hawks-Sparrows*: Sharp-shinned Hawk: 19 Nov. (1) S. American Woodcock: courtship flights of up to ten individuals from mid-Oct. on into Dec. H. Spotted Sandpiper: 23 Nov. (1) P. Eastern Wood Pewee: to 14 Oct. (1) singing H. Purple Martin: 23 Sept. (5) S. Catbird: to 21 Oct. (1) I. Gray-cheeked Thrush: 10 Sept. (1) Golden-crowned Kinglet: first 22 Sept. (2) H. Ruby-crowned Kinglet: 23 Nov. (12) in one flock P. Warbling Vireo: 23 Sept. (2). Nashville Warbler: to 14 Oct. (1) P. Yellow-throated Warbler: 14 Oct. (1) P. Pine Warbler: to 14 Oct. (3) P. Palm Warbler: 22 Sept. (1) H. Northern Waterthrush: 22 Sept. (1) H. Baltimore Oriole: 9 Sept. (1), 7 Oct. (1) H. Scarlet Tanager: 7 Oct. (1) H. Rose-breasted Grosbeak: to 14 Oct.. (3) P. Blue Grosbeak: to 14 Oct. (2) P. Indigo Bunting: to 21 Oct. (3) and 28 Oct. (1) I. Fox Sparrow: first 21 Oct. (1) I. Lincoln's Sparrow: 7, 14 Oct. (1), 21 Oct. (2) I.

*Locations:* H—Harbert Hills Academy, I—Indian Creek, P—Pickwick Dam and Lake, S—Savannah.

*Observers:* Jerry Mathis and Mike Patterson.

DAVID E. PATTERSON, Harbert Hills Academy, Olive Hill 38475.

NASHVILLE—*Loons-Geese:* Common Loon: 22 Nov. (1) OHL (LOT). Horned Grebe: 8 Nov. (1) BL (HEP), 11 Nov. (5) BL, (2) OHL (HCM, HEP). Pied-billed Grebe: normal; unusual flock of (18) 18 Oct. RL (MCW). Green Heron: last 30 Sept. (1) (MCW). Yellow-crowned Night Heron: 15 Sept. (2) BL (HEP), 16 days latest ever. Canada Goose: first (4) 30 Sept. ACM (AFG); a few reports of Oct. flocks. Snow Goose: 20 Oct. (5) with Canadas SHV (KAG). Blue Goose: 20 Oct. (1) (LOT).

*Ducks:* scarce and late arriving. Mallard: very late and scarce with the first report being (3) 31 Oct. OHL (LOT). Black Duck: 19 Oct. (2) RL (EE); nearly normal later at BL, OHL. Gadwall: 16 Oct. (1) RL (MCW); two reports of singles later. Pintail: 30 Sept. (1) ACM (AFG). Green-winged Teal: 22 Oct. (4) CL (MCW, EE), 11 Nov. (6) CL (HCM, HEP). Blue-winged Teal: 30 Sept. (22) ACM (AFG), 15 Oct. (7) RL (MCW). American Widgeon: 11 Nov. (3) BL (HCM, HEP). Shoveler: 11 Nov. (1) CL (HCM, HEP). Redhead: 16 Nov. (2) BL (HEP). Ring-necked Duck: late, first 24 Oct. (2) BL (HEP); only sizable flock 26 Oct. (60) RL (MCW). Lesser Scaup: almost absent; the first 17 Oct. (1) BL (HEP); max. 22 Nov. (6) CL (LOT). Common Goldeneye: 29 Nov. (10) RL (EE). Bufflehead: 11 Nov. (2) CL (HCM, HEP), 22 Nov. (1) CL (LOT). Hooded Merganser: 8 Nov. (3) BL (HEP), 22 Nov. (5) CL (LOT). Common Merganser: 19 Nov. (1) RL (HCM, HEP).

*Hawks-Sandpipers:* Osprey: 25 Sept. (1) ACM (LOT). Virginia Rail: 7 Oct. (1) CC (MCW). Yellow Rail: a very rare record, 7 Oct. (1) CC (MCW). American Coot: 30 Sept. (4) RL (MCW); by Nov. (100) RL, OHL. Killdeer: very scarce. American Woodcock: 15 Oct. (1) \*. Common Snipe: 30 Sept. (6) ACM (AFG), 11 Nov. (1) CL (HCM, HEP). Spotted Sandpiper: 22 Oct. (2) CL (EE, MCW). Lesser Yellowlegs: 30 Sept. (6) ACM (AFG), 22 Oct. (3) CL (EE, MCW). Pectoral Sandpiper: 30 Sept. (6) ACM (AFG). Dunlin: 11 Nov. (4) CL (HCM, HEP). Semipalmated Sandpiper: 30 Sept. (1) ACM (AFG).

*Gulls-Flycatchers:* Herring Gull: 11 Nov. (1) OHL (HCM, HEP), 29 Nov. (3) BL (HEP). Ring-billed Gull: also late and scarce with the first 31 Oct. (15) OHL (LOT); peak 29 Nov. (32) BL (HEP). Bonaparte's Gull: 29 Nov. (17) BL (HEP). Terns: none. Black-billed Cuckoo: late, 22 Oct. (1) \*. Common Nighthawk: 2 Sept. (200) 2 J's (HEP); last 17 Oct. (1) H (HCM). Chimney Swift: normal; last 17 Oct. (10) H (HCM). Red-headed Woodpecker: 27 Sept. (a transient) H (HCM); very rare here in winter now. Yellow-bellied Sapsucker: 30 Sept. (1) (LOT). Eastern Kingbird: late 30 Sept. (1) SHV (LOT). Eastern Phoebe: migrating birds H (HCM) (1) on 22 Sept., 7, 8, 18 Oct., and 5 Nov.; (1) 2 J's 18 Nov. (HCM, HEP). Acadian Flycatcher: 6, 16 Oct. (1) \*, the last being 14 days latest ever. Traill's Flycatcher: 12 Sept. (1) \*.

*Swallows-Thrushes:* Swallows: no reports. Brown Creeper: 28 Oct. (1) H (HCM). House Wren: 20 Sept. (1) H (HCM). Winter Wren: late and

(KAG). Long-billed Marsh Wren: 18 Oct. (1) CP (HCM). Catbird: last 9 Oct. (1) H (ARL). Brown Thrasher: 15 Nov. (1) H (JOE). Wood Thrush: 27 Oct. (1) casualty near H *vide* (ARL). Hermit Thrush: first 17 Oct. (2) H (CWF). Swainson's Thrush: from 12 Sept. (1) \*, to a very late date, 28 Oct. (1) BS (KAG); scarce as were all the thrushes. Gray-cheeked Thrush: very scarce. Veery: almost absent.

*Gnatcatchers-Vireos*: Blue-gray Gnatcatcher: last 30 Sept. (3) RL (MCW). Golden-crowned Kinglet: 18 Oct. (1) H (HCM). Ruby-crowned Kinglet: a very early record, 16 Sept. (2) CW (SB). Loggerhead Shrike: at least normal with (6-8) seen on trips. Starlings: far below normal with only a few thousand roosting downtown. White-eyed Vireo: 21 Nov. (1) H (HCM), 29 days latest ever except for a Xmas Count record in 1926, MIGRANT 3:43. Red-eyed Vireo: last 1 Oct. (1) \*. Philadelphia Vireo: 5 Oct. (1) \*.

*Warblers*: Prothonotary: 10 Oct. (1) casualty WSM TV tower (ARL), 17 days latest ever. Worm-eating: 24 Sept. (1) \*, a fairly late date. Tennessee: from 3 Sept. (1) to 15 Oct. (1), both \*. Orange-crowned: 15 Oct. (1) \*. Nashville: a late date, 18 Oct. (1) \*. Magnolia: from 2 Sept. (2) H (HCM) to 22 Oct. (1) \*. Myrtle: late in arrival and scarce. Black-throated Green: 8 Oct. (2) H (HCM). Blackburnian: only report 30 Sept. (2) RL (MCW). Chestnut-sided: from an early date, 2 Sept. (1) banded 2 J's (MB) to 1 Oct. \*. Bay-breasted: first 9 Sept. (2) CW (SB), then they seemed to have left early. Palm: last 14 Oct. (1) RL (JOE). Ovenbird: last 14 Oct. (1) \*. Northern Waterthrush: a fairly late date, 15 Oct. (1) \*. Louisiana Waterthrush: 2 Sept. (1) banded 2 J's (MB), 12 days latest ever for a bird in hand. Kentucky: left about two weeks earlier than normal. Connecticut: our third fall record, 14 Oct. (1) H (CWF). Mourning: only one report, 2 Sept. (1) \*. Yellowthroat: seemed to have left early. Hooded: left early. Canada: from 2 Sept. (1) (SB) and (1) \* to 30 Sept. (1) (MCW). Redstart: left early.

*Orioles-Sparrows*: Baltimore Oriole: last 1 Sept. (1) H (HCM). Rusty Blackbird: 20 Oct. (2) H (JOE), 7 days earliest ever, later (9-12). (They have wintered in the yard for several years.) Common Grackle: scarce with only a few small flocks. Scarlet Tanager: 30 Sept. (2) SHV (JOE). Summer Tanager: late 23 Oct. (1) \*. Rose-breasted Grosbeak: scarce. Indigo Bunting: fall build-up was far below their normal abundance; last 15 Oct. (4) \*. Dickcissel: unusual winter record, (1) for several days in late Nov. H (MLL). Purple Finch: scarce and late, with the first being 10 Nov. (5) H (FM). Slate-colored Junco: late and few in numbers, the first 18 Oct. (1) \*. Chipping Sparrow: late departing were (2) 2 Nov. H (ARL). White-crowned Sparrow: first report (1) 14 Oct. \*. White-throated Sparrow: late and below normal; first 11 Oct. (1) \*. Lincoln's Sparrow: 14 Oct. (1) \*, always rare here. Swamp Sparrow: first, fairly early, (1) 1 Oct. \*. Song Sparrow: first, 11 Oct. (1) BL (HEP).

*Locations*: ACM—Ashland City Marsh, BS—Basin Springs, BL—Bush Lake, CC—Cannon County, CP—Centennial Park, CW—Cheekwood, CL—Colman's Lake, H—home of observer, OHL—Old Hickory Lake, RL—Radnor Lake, SHV—South Harpeth Valley, 2 J's—Two Jays Sanctuary.

*Observers*: SB—Sue Bell, MB—Mike Bierly, JOE—John O. Ellis, EE—Erline Elmore, CWF—Clara Fentress, AFG—Albert F. Gainer and party, KAG—Katherine A. Goodpasture, ARL—Amelia R. Laskey, MLL—Mary Lou Lor-

ance, HCM—Harry C. Monk, FM—Fanny Murphy, HEP—Henry E. Parmer, LOT—Lawrence O. Trabue, MCW—Mary C. Wood.

Note: the asterisk, \*, is used to denote records of birds banded at Two Jays Sanctuary by KAG.

HENRY E. PARMER, 3800 Richland Ave., Nashville 37205.

COOKEVILLE—*Herons-Sparrows*: Great Blue Heron: 9 Sept. (1). Bald Eagle: 5 Oct. (1). Osprey: 14 Sept. (1). Sandhill Crane: 29 Nov. (3) WGA (RH). American Coot: first 26 Sept. (4), 27-30 Sept. (23, 28, 31, 39) WGA (RH), 29 Oct. (300) DHL (BC). Common Nighthawk: 11 Oct. (23), 12 Oct. (4) HP (CH). Brown Creeper: 14 Nov. (1) WGA (RH) 15, 16 Nov. (1) HP (MW). Brown Thrasher: 16 Nov. (1). Blue-gray Gnatcatcher: 26 Sept. (1). Cedar Waxwing: first 6 Sept. (25). Purple Finch: 19 Nov. (6), 28 Nov. (9), 30 Nov. (35) WGA (RH). Slate-colored Junco: first 25 Oct. (1) HP (CH), 28 Oct. (1) WGA (RH). White-throated Sparrow: 25 Oct. (1) HP (CH), 8 Nov. (6) WGA (RH).

*Locations*: DHL—Dale Hollow Lake, HP—Home Place, WGA—Willow Grove Area.

*Observers*: BC—Beulah Clark, CH—Caprice Haile, RH—Roy Hinds, MW—Marie White.

MARIE WHITE, 1218 Byrne Avenue, Cookeville 38501.

CHATTANOOGA—*Loons-Hawks*: Common Loon: first 23 Oct. (1) CL; maximum 8 Nov. (43) HCP; decreasing thru end of period. Horned Grebe: first 11 Nov. (1) HCP; regular in small numbers thereafter; maximum 28 Nov. (26) BTWP. Pied-billed Grebe: few and scattered except at MC; maximum 19 Nov. (12) MC. Double-crested Cormorant: 8 Nov. (1) HCP (JD). Great Blue Heron: few and scattered; maximum 4 Sept. (13) HI. Green Heron: last 16 Oct. (1) AM (KD). Little Blue Heron: last 2 Oct. (1) HRA (KD). Common Egret: last 18 Sept. (4) HRA. Yellow-crowned Night Heron: one individual with broken wing observed at AM until 7 Oct. American Bittern: only record, late on 6 Nov. (1) D (JD). Canada Goose: first 4 Sept. (6) HI; wintering population of 4,500 at HI on 22 Oct.; small scattered groups elsewhere. Snow Goose: 22 Oct. (1) HI, 24 Oct. (1) WR, 29 Oct. (1) D, 6 Nov. (1) D. Blue Goose: first 16 Oct. (4) HI; small wintering group there; maximum 29 Oct. (18). Mallard: regular thru period; maximum 19 Nov. (760) WR. Black Duck: first 28 Sept. (4) BTWP; regular since; maximum 11 Nov. (125) BTWP. Gadwall: first 16 Oct. (1) HRA; regular since at VR; maximum 24 Oct. (200) WR. Pintail: 26 Sept. (1) HRA, 14 Nov. (2) W, 19 Nov. (55) WR. Green-winged Teal: first 14 Oct. (9) CD; scattered records since; maximum 29 Oct. (21) HI. Blue-winged Teal: last 29 Oct. (4) HI. American Widgeon: first 11 Sept. (2) HRA; regular in small numbers since; maximum 19 Nov. (280) WR. Shoveler: 16 Oct. (1) SB, 22 Oct. (7) HI, 6 Nov. (1) HRA, 19 Nov. (4) MC, 29 Nov. (3) VR. Wood Duck: very few records; maximum 10 Oct. (61) SB (KD). Redhead: 19 Nov. (1) WR, 23 Nov. (1) VR. Ring-necked Duck: first 24 Oct. (1) WR; regular in small numbers since; maximum 29 Oct. (22) Canvasback: 19 Nov. (33) WR, 28 Nov. (6) BTWP. Greater Scaup: 4 Nov. (4) HCP, 20 Nov. (15) BTWP, 23 Nov. (22) VR (JD, KD). Lesser Scaup: first 5 Nov. (1)

WBL; regular in small number since; maximum 19 Nov. (5) WR. Common Goldeneye: 19 Nov. (14) WR, 28 Nov. (6) BTWP. Bufflehead: first 11 Nov. (1) BTWP; scattered records since; maximum 28 Nov. (45) CL. Ruddy Duck: 4 Nov. (2) HCP, 6 Nov. (3) BTWP, 14 Nov. (10) W, 28 Nov. (1) BTWP. Hooded Merganser: first 4 Nov. (3) HCP; scattered records since; maximum 29 Nov. (56) HCP. Red-breasted Merganser: 11 Nov. (1) BTWP; 13 Nov. (5) CL. Sharp-shinned Hawk: very few records, mostly during migration. Cooper's Hawk: scattered single birds. Bald Eagle: 1 Oct. (1) HCP. Marsh Hawk: occasional during migration; scattered records since; maximum 29 Oct. (2) HI. Osprey: occasional during migration; last 5, 6 Nov. (1) WBL. Pigeon Hawk: 23 Sept. (1) EM (JD), a migration record.

*Grouse-Terns:* Ruffed Grouse: 14 Oct. (1) FW. Sandhill Crane: 13 Nov. (14) CC (KD). King Rail: 2 Oct. (1) AM. Sora Rail: 18 Sept. (1) AM, 2 Oct. (1) AM. American Coot: regular thru period; wintering population at MC 19 Nov. (6,600). Semipalmated Plover: 11 Sept. (5) SB, 22 Oct. (1) HI. American Golden Plover: 22 Oct. (1) HI. Black-bellied Plover: 3, 4 Sept (1) SB. American Woodcock: 25 Nov. (1) BR, 28 Nov. (1) AM. Common Snipe: first 11 Sept. (1) SB; regular since; maximum 20 Nov. (71) SB. Spotted Sandpiper: last 23 Oct. (1) SB. Solitary Sandpiper: last 26 Sept. (1) HRA. Greater Yellowlegs: maximum 6 Nov. (6) HRA; last 14 Nov. (1) HRA. Lesser Yellowlegs: maximum 26 Sept. (6) HRA; last 31 Oct. (3) HRA. Pectoral Sandpiper: maximum 23 Oct. (12) HRA; last 23 Nov. (1) SB. Least Sandpiper: regular thru period; maximum 2 Oct. (56) HRA (KD), highest number ever here. Dunlin: regular thru period in unusually good numbers; maximum 6 Nov. (90) HRA (KD). Dowitcher: 4 Sept. (3) HRA, 16 Oct. (1) HRA. Semipalmated Sandpiper: maximum 11 Sept. (10) HRA; last 16 Oct. (1) HRA. Western Sandpiper: 3 Sept. (1) SB, 4 Sept. (3) HRA, 26 Sept. (1) HRA. Herring Gull: first 23 Oct. (1) W; regular in small numbers since; maximum 29 Nov. (10) VR. Ring-billed Gull: first and early on 7 Oct. (1) HCP; regular since; maximum 29 Nov. (43) VR. Bonaparte's Gull: 5 Nov. (1) WBL. Forster's Tern: 18 Sept. (3) HI. Caspian Tern: 2 Oct. (1) HI.

*Cuckoos-Waxwing:* Yellow-billed Cuckoo: last 23 Sept. (1) EM. Barn Owl: 20 Sept. (1), 23 Sept. (1) both dead on Interstate at LM, 16 Oct. (1), 16 Nov. (2), 22 Nov. (1), 27 Nov. (1) all feeding at AM (JD, KD). Great Horned Owl: 19 Oct. (1) LM, 22 Oct. (1) HI, 25 Nov. (1) VR, 29 Nov. (1) BTWP. Common Nighthawk: last 20 Sept. (1) H. Chimney Swift: last 5 Oct. (100) H. Ruby-throated Hummingbird: last 23 Sept. (1) EM. Yellow-bellied Sapsucker: first 4 Oct. (1) LM. Eastern Kingbird: last 6 Sept. (3) SB. Eastern Wood Pewee: last 25 Sept. (1) EM. Tree Swallow: last 1 Oct. (12) HCP. Rough-winged Swallow: last 21 Sept. (2) EM. Barn Swallow: last 20 Sept. (125) SB. Cliff Swallow: last 21 Sept. (4) EM. Purple Martin: last 12 Sept. (3) EM. Red-breasted Nuthatch: 17 Sept. (1) EM, 18 Sept. (1) EM. Brown Creeper: first 14 Nov. (3) BTWP. Winter Wren: first 8 Nov. (1) BTWP. Long-billed Marsh Wren: 20 Sept. (1) SB (KD, JW). Short-billed Marsh Wren: 7 Oct. (1) SB. Wood Thrush: last 17 Sept. (2) EM. Hermit Thrush: first 31 Oct. (1) BTWP. Blue-gray Gnatcatcher: last 6 Sept. (2) LM. Golden-crowned Kinglet: first 16 Oct. (1) BTWP. Ruby-crowned Kinglet: first 4 Oct. (1) LM. Water Pipit: first 10 Oct. (1) SB; regular there in

small numbers since. Cedar Waxwing: scattered records; maximum 20 Nov. (65) BTWP.

*Vireos-Sparrows*: White-eyed Vireo: last 18 Sept. (1) HRA. Yellow-throated Vireo: last 2 Oct. (1) HRA. Red-eyed Vireo: last 23 Sept. (1) EM (FW). Black and White Warbler: last 6 Sept. (1) LM. Tennessee Warbler: last 4 Oct. (3) LM. Parula Warbler: last 16 Oct. (1) HRA. Magnolia Warbler: last 16 Oct. (1) HRA. Myrtle Warbler: first 23 Oct. (2) CL; scattered records since. Black-throated Green Warbler: last 4 Oct. (2) LM. Cerulean Warbler: 6 Sept. (1) LM (KD). Blackburnian Warbler: last 4 Oct. (1) LM. Chestnut-sided Warbler: first 14 Sept. (1) LM, last 23 Sept. (3) EM. Bay-breasted Warbler: last 10 Oct. (1) HRA. Palm Warbler: 22 Oct. (1) HI (JD). Yellowthroat: last 11 Sept. (1) SB. Canada Warbler: 6 Sept. (1) LM. American Redstart: last 4 Oct. (1) LM. Scarlet Tanager: last 18 Sept. (1) EM. Summer Tanager: last 18 Sept. (1) EM. Rose-breasted Grosbeak: last 13 Oct. (1) LM. Blue Grosbeak: last 13 Sept. (1) SB. Indigo Bunting: last and late on 29 Oct. (1) HRA. Purple Finch: first 14 Nov. (3) BTWP. Savannah Sparrow: first 26 Sept. (10) HRA. Vesper Sparrow: 22 Oct. (3) HI, 29 Oct. (1) HRA. Slate-colored Junco: first 31 Oct. (1) BTWP. Chipping Sparrow: regular in small numbers; maximum 6 Nov. (6) BTWP. White-crowned Sparrow: first 22 Oct. (3) HI. White-throated Sparrow: first 23 Oct. (2) BTWP. Fox Sparrow: very scarce; first 19 Nov. (1) WR. Swamp Sparrow: first 16 Oct. (2) SB.

*Locations*: AM—Amnicola Marsh, BR—Big Ridge Road, BTWP—Booker T. Washington State Park, CC—Candies Creek Management Area, CD—Chickamauga Dam, CL—Chickamauga Lake, D—Dayton, Tennessee, EM—Elder Mountain, FW—Falling Water Creek, H—Hixson, Tennessee, HCP—Hamilton County Park, HI—Hiwassee Island Refuge, HRA—Hiwassee River Area, LM—Lookout Mountain, MC—Mullins Cove, Hales Bar Lake, SB—Savannah Bay, VR—Vincent Road Launching Area, W—Wolftever Area of Lake Chickamauga, WBL—Watts Bar Lake, WR—Woods Reservoir.

*Observers*: Maxine and Hugh Crownover, JD—Jon DeVore, KD—Kenneth Dubke, Roy Evenson, Mark and Jack Wagoner, Frank Ward, Gene and Adele West.

JON E. DeVORE, 4922 Sarasota Drive, Hixson 37343.

KNOXVILLE—*Hérons-Sandpipers*: Green Heron: 1 Oct. (4). Blue Goose: 11-12 Nov. (2) PS (CM, FA). Osprey: 1 Oct. (2). Common Snipe: 1 Oct. (11). Solitary Sandpiper: 1 Oct. (5).

*Hummingbird-Wrens*: Ruby-throated Hummingbird: 1 Oct. (3). Eastern Kingbird: 1 Oct. (1). Tree Swallow: 1 Oct. (3). White-breasted Nuthatch: only 1 on 1 Oct. Red-breasted Nuthatch: none on 1 Oct. Long-billed Marsh Wren: 1 Oct. (7). Short-billed Marsh Wren: 1 Oct. (3).

*Warblers-Sparrows*: Wilson's Warbler: 1 Oct. (1). Blue Grosbeak: 1 Oct. (2). Purple Finch: 13 Nov. (3), 23 Nov. (25). Savannah Sparrow: 12 Sept. (10).

*Locations*: PS—University Plant Science Farm. The 1 Oct. records were from the Fall Count in Knox County.

*Observers:* FA—Fred Alsop, CM—Calvin McMillan.

JAMES T. TANNER, Route 10, Knoxville 37920.

GREENEVILLE—*Grebes-Mergansers:* Horned Grebe: 26 Nov. (4) SP (TOS). Pied-billed Grebe: 26 Nov. (3) SP (TOS). Great Blue Heron: 15 Sept. (1) GC, 10 Oct. (1) GC, 4 Nov. (1) GC (RN). Green Heron: 7 Oct. (1) CB (TOS). Mallard: 14 Nov. (50) RF (RN), 26 Nov. (200) SP (TOS). Black Duck: 26 Nov. (2) SP (TOS). American Widgeon: 26 Nov. (4) SP (TOS). Shoveler: 26 Nov. (2) SP (TOS). Lesser Scaup: 26 Nov. (2) SP (TOS). Bufflehead: 26 Nov. (2) SP (TOS). Red-breasted Merganser: 26 Nov. (2) SP (TOS).

*Hawks-Wrens:* Red-tailed Hawk: 9 Sept. (1) GC, 15 Oct. (1) GC, 12 Nov. (1) GC (RN). Red-shouldered Hawk: 7 Oct. (1) CB (TOS). Ruffed Grouse: 7 Oct. (1) CB (TOS). American Coot: 26 Nov. (500) SP (TOS). Common Snipe: 19 Nov. (1) RF (RN). Herring Gull: 26 Nov. (1) SP (TOS). Barn Owl: 2 Oct. (1) O (RS, DJ); 7 Oct. (1) CB (TOS). Great Horned Owl: 12 Oct. (1) RF (RN). Yellow-bellied Sapsucker: 7 Oct. (1) CB (TOS). Hairy Woodpecker: 7 Oct. (1) CB (TOS). Common Raven: 7 Oct. (2) CB (TOS). White-breasted Nuthatch: 7 Oct. (2) CB (TOS). Winter Wren: 20 Nov. (1) RF. Bewick's Wren: 15 Nov. (1) RF. Short-billed Marsh Wren: 3 Sept. (2) RF (RN).

*Thrushes-Sparrows:* Wood Thrush: 7 Oct. (1) CB (TOS). Hermit Thrush: 7 Oct. (2) CB (TOS). Swainson's Thrush: 7 Oct. (4) CB (TOS). Gray-cheeked Thrush: 7 Oct. (1) CB (TOS). Ruby-crowned Kinglet: 7 Oct. (2) CB (TOS). Solitary Vireo: 7 Oct. (4) CB (TOS). Tennessee Warbler: 7 Oct. (1) CB (TOS). Orange-crowned Warbler: 19 Nov. (1) G (F). Black-throated Blue Warbler: 7 Oct. (3) CB (TOS). Black-throated Green Warbler: 7 Oct. (3) CB (TOS). Bay-breasted Warbler: 7 Oct. (5) CB (TOS). Pine Warbler: 7 Oct. (2) CB (TOS). Palm Warbler: 7 Oct. (3) CB (TOS), 17 Nov. (20) RF (RN), 26 Nov. (1) RF (RN). Ovenbird: 7 Oct. (1) CB (TOS). American Redstart: 7 Oct. (1) CB (TOS). Rose-breasted Grosbeak: 7 Oct. (3) CB (TOS). Indigo Bunting: 7 Oct. (2) CB (TOS). Slate-colored Junco: 7 Oct. (44) CB (TOS). White-crowned Sparrow: 22 Oct. (5) RF (RN), a rather late date of arrival.

*Locations:* CB—Camp Creek Bald and slopes to Paint Creek, G—Greenville, GC—Grassy Creek, O—Ottway, RF—Roaring Fork, SP—John Sevier Steam Plant, Holston River, Hawkins County.

*Observers:* F—Mrs. William Fischer, DJ—David Johnson, RN—Richard or Ruth Nevius, RS—Royal Spees, TOS—Groups of members of the Greenville Chapter of the TOS with guests from other chapters.

RICHARD NEVIUS, Route 3, Greenville 37743.

ELIZABETHTON—*Loons-Gulls:* Common Loon: max. 13 Nov. (23) BL. Pied-billed Grebe: max. 22 Nov. (21) BL. Great Blue Heron: max. 22 Nov. (11) BL, PHL. Canada Goose: 23 Sept. (1) WR (LRH), 21-28 Nov. (1) DR (FWB, LRH). Blue-winged Teal: max. 6 Oct. (53) AS (CRS, GW). Lesser Scaup: max. 4 Nov. (1000) WaL (LRH). Common Goldeneye: 4 Nov. (1). Bufflehead: max. 18 Nov. (25) WaL. Sharp-shinned

Hawk: 17 Sept. (2). Cooper's Hawk: 27 Oct. (1). Red-tailed Hawk: 19 Nov. (1), 27 Nov. (2). Broad-winged Hawk: 17 Sept. (2), 23 Sept. (1). Marsh Hawk: 15 Sept. (1), 1 Oct. (1), 22 Oct. (1), 19 Nov. (2). Osprey: 27 Oct. (1) PHL (LRH, GW). Turkey: 25 Nov. (1) LF (FWB). American Coot: max. 27 Oct. (22). Semipalmated Plover: 1 Oct. (1) AS (CRS). American Woodcock: 14, 21 Oct. (1). Common Snipe: 6 Oct. (1). Solitary Sandpiper: 18 Sept. (1) AS. Greater Yellowlegs: 1 Oct. (1) AS (CRS). Lesser Yellowlegs: 18 Sept. (1) AS. Least Sandpiper: max. 6 Oct. (6) AS. Semipalmated Sandpiper: max. 6 Oct. (7) AS. American Avocet: 18 Sept. (1) AS (WC, CRS). Herring Gull: 22 Nov. (1) BL.

*Woodpeckers-Sparrows:* Red-headed Woodpecker: 10, 15 Sept. (1), 20 Nov. (1). Yellow-bellied Sapsucker: first 30 Sept. (1) SV. Eastern Wood Pewee: very late record, 20 Nov. (1) (LH). Barn Swallow: late record, 1 Oct. (1) (CWF). Brown Creeper: 29 Oct. (1), 23 Nov. (1). Catbird: last 14 Oct. (1). Brown Thrasher: 4, 8, 22 Nov. (1) (WAB). Hermit Thrush: 26 Nov. (1). Swainson's Thrush: 1 Oct. (4), 3 Oct. (2). Gray-cheeked Thrush: 17 Sept. (1) (CWF). Ruby-crowned Kinglet: first 30 Sept. (1) SV. Yellow-throated Vireo: 20 Sept. (1). Nashville Warbler: 25 Sept. (1) MC (CRS), 14 Oct. (1) MC (banded, CRS). Magnolia Warbler: 8 Sept.-3 Oct. (1-4). Cape May Warbler: 9 Sept. (2), 28 Sept. (1). Bay-breasted Warbler: 8, 17, 24 Sept. (1), 1 Oct. (1). Pine Warbler: 1 Oct. (2). Palm Warbler: 17 Sept.-30 Oct. (1-15). Northern Waterthrush: 25 Sept. (1), 15 Oct. (2). Louisiana Waterthrush: 1 Oct. (1). Connecticut Warbler: 14 Oct. (1) MC (banded, CRS). Yellow-breasted Chat: last 17 Sept. (1), rather late date. Wilson's Warbler: 24 Sept. (1) MC (CRS). Bobolink: 30 Sept. (1) (LRH). Rose-breasted Grosbeak: last 15 Oct. (1). Indigo Bunting: last 15 Oct. (1), late. Purple Finch: no records. Pine Siskin: 29 Oct. (5), 12 Nov. (12), both RM (FWB). Red Crossbill: 15 Oct. (4), 29 Oct. (10), 5 Nov. (3), 23 Nov. (1), 26 Nov. (4), all RM (FWB). Chipping Sparrow: 10 Nov. (1) (banded, LRH), late. Lincoln's Sparrow: 14, 21 Oct. (1) MC (banded, CRS).

*Locations:* AS—Austin Springs, BL—Boone Lake, DR—Doe River, LF—Laurel Fork Wildlife Management Area, MC—Milligan College, PHL—Patrick Henry Lake, RM—Roan Mountain, SV—Shady Valley, WaL—Watauga Lake, WR—Watauga River.

*Observers:* FWB—Fred W. Behrend, WAB—William A. Bridgforth, Jr., WC—Wallace Coffey, CWF—C. W. Fairbanks, LRH—Lee R. Herndon, LH—Lois Herndon, CRS—Charles R. Smith, GW—Gary Wallace.

CHARLES R. SMITH, Route 2, Johnson City 37601.

BRISTOL—*Loons-Mergansers:* Common Loon: first 27 Oct. (3) BL; 31 Oct. (8) BL; maximum 20 Nov. (15) SHL. Horned Grebe: first 7 Nov. (2) SHL (WC, DGD); max. 17 Nov. (14) SHL; 19 Nov. (4) BL. Pied-billed Grebe: first 4 Oct. (11) SHR; 31 Oct. (4) BL; max. 19 Nov. (25) BL. Great Blue Heron: first 6 Oct. (1) SHL; 11 Oct. (4) SHL, 27 Oct. (6) BL, 31 Oct. (5) PHL, 24 Nov. (4) SHL. Canada Goose: first 6 Nov. (3) SHL (WC, CS, LH), 7 Nov. (3) SHL (WC, DGD), 9 Nov. (3). Mallard: first 5 Nov. (1) BL (WC, CC); 5 Nov. (11) CR, Va; 13 Nov. (6) BL; max. 15 Nov. (28) SHL. Black Duck: first 13 Nov. (5) BL (WC, DGD); max. 15 Nov. (60) SHL; 29 Nov. (20) SHL. Gadwall: first 21 Oct. (17) PHL (WC,

DGD); 27 Oct. (3) BL, 31 Oct. (18) PHL, 13 Nov. (15) BL, 23 Nov. (10) SHL. Pintail: only record 15 Nov. (18) SHL (WC, DGD). Green-winged Teal: first 15 Nov. (5) CR, Va. (WC, CC); 23 Nov. (1) SHL (WC, DGD). American Widgeon: first 31 Oct. (15) PHL; 5 Nov. (3) BL, 13 Nov. (37) BL, 15 Nov. (15) SHL, 26 Nov. (6) SHL, Va. Shoveler: 29 Nov. (1) WP. Wood Duck: 27 Oct. (5) BL; last 31 Oct. (18) PHL. Redhead: 17 Nov. (1) SHL (WC, DGD). Ring-necked Duck: first 21 Oct. (4) PHL; 31 Oct. (4) PHL, 5 Nov. (14) BL, 5 Nov. (79) CR, Va.; 7 Nov. (2) SHL; max. 15 Nov. (100) SHL. Lesser Scaup: first 27 Oct. (9) BL; 31 Oct. (17) BL, 6 Nov. (2) CR, Va.; max. 15 Nov. (1650) SHL. Common Goldeneye: only fall record 26 Nov. (1) SHL, Va. (WC). Bufflehead: 13 Nov. (14) BL; max. 15 Nov. (20) SHL; 19 Nov. (10) BL, 20 Nov. (4) SHL. Ruddy Duck: first 5 Nov. (11) BL (WC, CC); 5 Nov. (7) CR, Va. (WC, CC), 7 Nov. (3) SHL. Hooded Merganser: first 5 Nov. (1) CR, Va. (WC, CC); max. 15 Nov. (23) SHL. Red-breasted Merganser: first 31 Oct. (1) BL (WC, DGD); 6 Nov. (2) SHL (WC, CS, LH); max. 15 Nov. (93) SHL; 19 Nov. (6) BL.

*Vultures-Hawks*: Turkey Vulture: max. 6 Nov. (45) BR, Va. (WC, DGD); 9 Nov. (20) SHL. Black Vulture: 6 Nov. (1) CR, Va. (WC, CC); 9 Nov. (5) SHL (WC, DGD). Sharp-shinned Hawk: 13 Nov. (1) BL (WC, CS). Cooper's Hawk: 6 Nov. (1) BR, Va. (WC, DGD). Red-tailed Hawk: 31 Oct. (1) PHL (DGD, WC), 5 Nov. (1) BL (WC, CC), 9 Nov. (1) 6 Nov. (2) BR, Va. (WC, CS, LH, DGD), 7 Nov. (1) SHL (WC, DGD). Rough-legged Hawk: 5 Nov. (1) adult, light phase, near BR, Va. (WC, CC); 6 Nov. (1) same as before, near BR, Va. (WC, DGD). Bald Eagle: 17 Nov. (1) immature SHL (WC, DGD); 20 Nov. (1) adult SHL (WC, DGD). Marsh Hawk: 1 Oct. (1) SV (WC, JS, DGD), 11 Oct. (1) SHL (WC, DGD), 6 Nov. (2) near BR, Va. (WC, CS, LH, DGD). Osprey: 11 Oct. (1) SHL (WC). Sparrow Hawk: regular 26 Oct. (1) SV.

*Turkey-Swift*: Turkey: 20 Nov. (10) SHL (WC, DGD). American Coot: first 6 Oct. (1) SHL; 27 Oct. (15) BL, 31 Oct. (9) PHL; max. 5 Nov. (34) BL. Killdeer: 4 Oct. (7) SHL, 17 Oct. (5) SHL, 27 Oct. (1) BL, 6 Oct. (20) SHL, 29 Nov. (2) WP. American Woodcock: 4 Oct. (1) SHR (WC). Common Snipe: 4 Oct. (2) BR, Tenn. (WC, DGD). Greater Yellowlegs: 6 Oct. (1) SHL (WC), 6 Nov. (1) SHL (WC, CS, LH), 7 Nov. (2) SHL. Lesser Yellowlegs: 11 Oct. (1) SHL (WC, DGD). Ring-billed Gull: first 5 Nov. (6) BL (WC, CC); 17 Nov. (2) SHL, 19 Nov. (3) BL, 20 Nov. (14) SHL, 29 Nov. (18) SHL. Common Tern: 10 Sept. (6) SHL. Yellow-billed Cuckoo: late records 11 Oct. (1) SHL, 15 Oct. (1). Barn Owl: 26 Oct. (1) SV (WC, JS, DGD). Screech Owl: 1 Nov. (2) SHL, 3 Nov. (2) BCC. Nighthawk: 16 Oct. (6).

*Woodpeckers-Creepers*: Red-headed Woodpecker: 14 Sept. (1). Yellow-bellied Sapsucker: first 26 Oct. (1) SV (WC, JS), 27 Oct. (1) BL, 31 Oct. (2) BL, 6 Nov. (1) BR, Va. Eastern Phoebe: 1 Oct. (1) SV, 11 Oct. (2) SHL, 7 Nov. (1) SHL, 20 Nov. (2) SHL. Horned Lark: 26 Oct. (6) SV, 6 Nov. (12) BR, Va. White-breasted Nuthatch: 26 Oct. (1) SV (WC, JS). Brown Creeper: 26 Oct. (1) SV (WC, JS), 7 Nov. (1) SHL, 13 Nov. (2) BL, 15 Nov. (2) SHL, 23 Nov. (1) SHL.

*Wrens-Srikes*: Winter Wren: 7 Nov. (1) SHL (WC, DGD), 15 Nov. (1) SHL. Brown Thrasher: 6 Oct. (1) SHL; last 27 Oct. (1) BL (DGD).

Swainson's Thrush: 17 Oct. (1) HC (WC). Gray-cheeked Thrush: 24 Oct. (3) HM (DM). Golden-crowned Kinglet: 26 Oct. (2) SV (WC, JS), 7 Nov. (12) SHL, 13 Nov. (6) BL, 15 Nov. (11) SHL, 23 Nov. (10) SHL. Ruby-crowned Kinglet: first 23 Oct. (1) SHL (WC). Cedar Waxwing: 17 Sept. (6) BR, Tenn. (JA). Loggerhead Shrike: regular.

*Warblers:* Myrtle Warbler: first 21 Oct. (6) PHL; max. 23 Oct. (20) SHL; 26 Oct. (4) SV, 7 Nov. (12) SHL, 9 Nov. (7) SHL. Palm Warbler: first 6 Oct. (3) SHL, 7 Nov. (2) SHL. Yellowthroat: late fall record, 11 Oct. (1) SHL.

*Blackbirds-Juncos:* Baltimore Oriole: last 13 Sept. (2) WP. Rusty Blackbird: 15 Nov. (10) SHL (WC). Savannah Sparrow: 11 Oct. (2) SHL, 26 Oct. (1) SV. Vesper Sparrow: 17 Oct. (1) SHL (WC, DGD), 26 Oct. (1) SV; last 6 Nov. (1) BR, Va. (DGD). White-crowned Sparrow: first 6 Nov. (1) BR, Va. (LH); 7 Nov. (1) SHL. White-throated Sparrow: first 21 Oct. (1) PHL. Slate-colored Junco: first at lower elevation, 3 Oct. (1) WP (DM).

*Locations:* BCC—Bristol Country Club, BL—Boone Lake, CR, Va.—Clear Creek Reservoir, Washington County, Va., BR, Va.—Bristol, Virginia, BR, Tenn.—Bristol, Tennessee, HC—Hatcher Creek (Sullivan County, Tennessee), HM—Holston Mountain, PHL—Patrick Henry Lake, SHL—South Holston Lake, SHR—South Holston River, SV—Shady Valley, WP—Weaver Pike.

*Observers:* JA—Judith Abbott, CC—Carolyn Coffey, WC—Wallace Coffey, FB—Fletcher Bingham, BB—Bill Bridgforth, DGD—Gerry Delantonas, LH—Lee R. Herndon, TF—Tom Finucane, CF—Carl Fleenor, DM—David McPeak, JS—John Shumate, EV—Enno vanGelder, CS—Charles R. Smith.

DAVID McPEAK, Route 5, Box 207, Bristol 37620.

## BOOK REVIEW

A LIFETIME WITH THE BIRDS: AN ORNITHOLOGICAL LOG-BOOK—By Earle R. Greene. Edwards Brothers, Inc. Ann Arbor, Michigan 48104, 1966. 6 3/8 x 9 1/4 in. ix 404 pp., 114 photographs. Cloth, \$6.00.

The author relates his experiences and excursions in quest of birds over a large portion of the area covered by the 1957 edition of the A.O.U. Check-list. Many of the trips he has taken are described in much detail, telling how he traveled, routes followed, places visited, where he lodged, where and with whom he dined, with whom he birded and mentions particularly the birds added to his life list. On many trips far more amateur and professional ornithologists were listed than birds.

From his childhood, Mr. Greene has been an ardent bird student. In later years he has organized bird clubs in locations where he has been stationed, as an employee of the U.S. Fish and Wildlife Service, has held membership in numerous ornithological societies and has published a number of articles in some of the best known bird journals and in newspapers. A list of these publications is included near the end of the book.

The culmination of his efforts occurred in 1965 when he qualified for membership in the "600-club." At that time there were only 25 other members of the club. His list of birds with full species status, with only a few subspecies, with their vernacular and scientific names and the various states and provinces in which each was observed is recorded in A.O.U. Check-list order.

For anyone interested in adding to his life list or in knowing when and where to find new or rare birds this would be a valuable addition to his book shelf.

LEE R. HERNDON, Route 6, Elizabethton 37643.

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 Wood - 1965: 57, 62, 63, 65, 67, 73, 79, 81, 92, 93, 100; 1966: 20, 24, 26, 27, 30, 37, 46, 62, 80, 81; 1967: 13, 33, 48, 51, 54, 55, 66, 94, 96, 98, 100.  
 Titmouse, Tufted - 1965: 10, 37, 43, 57, 72, 86, 89, 91, 92, 93, 97; 1966: 5, 37, 46, 65, 69; 1967: 9, 13, 33, 88.  
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 Rufous-sided - 1965: 11, 12, 43, 57, 62, 74, 90, 92, 93, 97; 1966: 9, 25, 38, 47, 66, 84; 1967: 9, 13, 22, 35, 54, 89.  
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 Vireo, Philadelphia - 1965: 65, 73, 81; 1966: 21, 30, 37, 39, 46, 62; 1967: 34, 43, 96.  
 Red-eyed - 1965: 57, 63, 65, 67, 73, 80, 81, 82, 92, 93, 96, 100; 1966: 21, 22, 23, 24, 26, 27, 28, 30, 33, 37, 46, 47, 48, 61; 1967: 12, 13, 34, 43, 49, 51, 54, 56, 96, 98.  
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 Warbling - 1965: 65, 67, 73, 96, 100; 1966: 21, 23, 24, 26, 30, 37, 55, 62; 1967: 34, 49, 51, 56, 65, 94.  
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 Yellow-throated - 1965: 63, 65, 73, 81, 82, 100; 1966: 21, 26, 30, 37, 46, 62, 86; 1967: 13, 34, 47, 48, 51, 56, 65, 99, 101.  
 Vulture, Black - 1965: 2, 6, 11, 43, 66, 69, 71, 88, 97, 99; 1966: 8, 9, 23, 29, 36, 54, 64, 70, 80, 84, 85; 1967: 21, 31, 53, 67, 68, 87, 102.  
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 Warbler, Bay-breasted - 1965: 57, 64, 65, 74, 81, 82, 94, 96, 98, 100; 1966: 21, 27, 30, 38, 46, 61, 81, 83, 86; 1967: 34, 43, 47, 49, 52, 54, 96, 99, 100, 101.  
 Black-and-white - 1965: 57, 63, 64, 65, 73, 81, 82, 92, 93, 96, 98, 100; 1966: 21, 24, 26, 27, 28, 30, 37, 46, 61, 62, 81, 86; 1967: 34, 43, 47, 49, 51, 54, 56, 99.  
 Blackburnian - 1965: 64, 66, 73, 81, 82, 93, 96, 98, 100; 1966: 21, 24, 26, 27, 30, 37, 46, 61, 62, 81, 86; 1967: 34, 43, 47, 49, 51, 54, 56, 99.  
 Blackpoll-1965: 64, 67, 74, 80, 81, 94, 98; 1966: 21, 24, 26, 30, 33, 38, 61, 62; 1967: 34, 43, 47, 49, 52, 54, 56.  
 Black-throated Blue - 1965: 73, 81, 82, 93, 94, 100; 1966: 22, 26, 30, 33, 38, 55, 62, 86; 1967: 12, 34, 51, 56, 100.  
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- 73, 81, 82, 92, 93, 96, 98, 100; 1966: 21, 24, 26, 27, 30, 38, 46, 62, 81, 82, 84, 86; 1967: 34, 49, 52, 54, 56, 66, 96, 99, 100.
- Blue-winged - 1965: 63, 74, 81, 92; 1966: 14, 21, 30, 38, 46, 84; 1967: 34, 47, 49, 51.
- Brewster's - 1965: 20; 1967: 30, 34, 46, 49.
- Canada - 1965: 57, 64, 66, 67, 74, 81, 93, 103; 1966: 26, 31, 38, 47, 54, 55, 62, 81; 1967: 35, 52, 54, 56, 96, 99.
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- Cerulean - 1965: 62, 64, 73, 81; 1966: 21, 26, 30, 38, 62; 1967: 34, 49, 52, 65, 67, 99.
- Chestnut-sided - 1965: 57, 64, 66, 67, 74, 81, 82, 92, 94, 96, 98, 100; 1966: 21, 22, 24, 26, 27, 28, 30, 38, 46, 55, 62, 86; 1967: 34, 49, 52, 56, 96, 99.
- Connecticut - 1965: 62; 1966: 38, 54; 1967: 43, 52, 93, 96, 101.
- Golden-winged - 1965: 20, 63, 73, 81, 94, 96; 1966: 26, 30, 38, 46, 54, 56, 62, 81; 1967: 34, 47, 51, 56.
- Hooded - 1965: 57, 64, 66, 67, 74, 82, 92, 93, 100; 1966: 21, 26, 31, 38, 62, 81, 86; 1967: 13, 35, 49, 52, 54, 56, 65, 96.
- Lawrence's - 1965: 20, 106.
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- Mourning - 1965: 64, 94; 1966: 21, 24, 31, 33, 46, 47, 62, 81, 83; 1967: 65, 67, 93, 96.
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- Nashville - 1965: 62, 65, 73, 81, 82, 96, 100; 1966: 21, 30, 38, 46, 62, 81, 84, 86; 1967: 34, 49, 51, 56, 94, 96, 101.
- Orange-crowned - 1965: 43, 73, 81, 100; 1966: 30, 46, 62, 81, 83, 86; 1967: 34, 49, 51, 93, 94, 96, 100.
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- Wilson's - 1965: 69, 81, 82, 100; 1966: 21, 31, 33, 38, 47, 54, 62, 81, 83, 84; 1967: 35, 99, 101.
- Worm-eating - 1965: 63, 65, 67, 73, 81, 82, 92, 100; 1966: 14, 21, 24, 26, 30, 38, 46, 47, 55, 62, 81; 1967: 34, 49, 51, 54, 56, 96.
- Yellow - 1965: 64, 65, 67, 69, 73, 79, 81, 92, 96, 100; 1966: 21, 26, 30, 38, 48, 62, 84; 1967: 2, 34, 49, 51, 53, 54, 56.
- Yellow-throated - 1965: 62, 64, 66, 74, 82, 96; 1966: 21, 30, 38, 81, 84; 1967: 34, 47, 49, 52, 94.
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