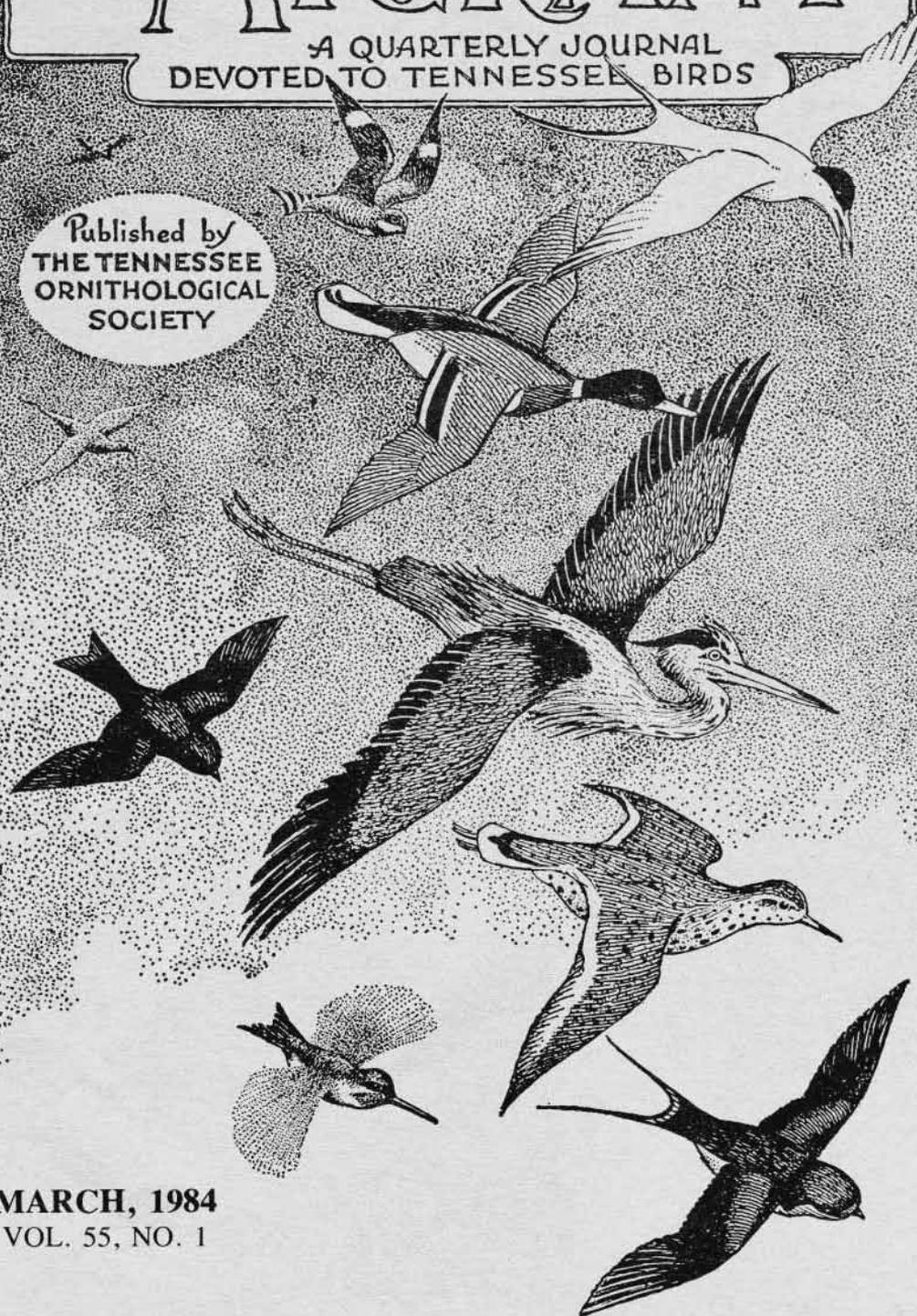


THE MIGRANT

A QUARTERLY JOURNAL
DEVOTED TO TENNESSEE BIRDS

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NO. 1

DESCRIPTION OF AMERICAN ROBIN TERRITORIES IN NORTHWEST TENNESSEE

T. DAVID PITTS

In 1971 I began a study of the territories of American Robins (*Turdus migratorius*). The primary purpose of the study was to acquaint students in an introductory ornithology class with an avian territorial system. The robins on the campus of the University of Tennessee at Martin seemed an appropriate choice because they were numerous, accustomed to people, conspicuous, and, consequently, easy to observe without disrupting their normal behavior.

American Robins have been the subject of numerous studies in various parts of their range (e.g., Howell 1942; Young 1951 and 1955; Klimstra and Stieglitz 1957; James and Shugart 1974). However, I am not aware of any descriptions of the territories of American Robins in Tennessee or elsewhere in the mid-south. It is for this reason that a summary of 7 years of observation is presented here.

DESCRIPTION OF STUDY AREA

The study was conducted on the campus of the University of Tennessee at Martin, Weakley County. Most of the academic and administrative buildings border, and surround, a rectangular 4.33 ha area called the Quadrangle. Results reported here will be restricted to the robin activities on the Quadrangle; however, in most years some observations were made outside, but adjacent to, the Quadrangle.

The Quadrangle is an open park-like area with a diversity of native and introduced trees and shrubs in a variety of sizes, although most of the trees are at least 50 cm in diameter. Virtually no understory is present, with the exception of scattered shrubs. Sufficient light penetrates to allow growth of grasses, such as Kentucky bluegrass (*Poa pratensis*) and Bermuda grass (*Cynodon dactylon*), which are mowed regularly. Numerous sidewalks cross and border the area, but no buildings or other structures are present on the area. All parts of the Quadrangle receive heavy pedestrian use; no vehicles, other than maintenance vehicles and bicycles, are allowed on the Quadrangle.

METHODS

During each of the years 1971-72, 1974-77, and 1980 my students and I attempted to determine the size of all the robin territories on the Quadrangle. Most of the robins apparently had 2 nests each year, but we did not study territories

during the second nesting period except in 1972. Each year, with the exception of 1980, 1 or 2 students studied robin territories as a part of their undergraduate research participation projects. These students typically spent 4-6 hours each week from late March through mid-May observing the robins. In addition to these data, students in my ornithology classes were assigned specific pairs of robins to study for a minimum of 2 hours. We attempted to locate the nest in each territory and determine the stage of nesting when the territory was being studied. In addition to the student observations, I plotted some of the territories and recorded observations of robins on the study area and vicinity through the year.

Territories were plotted by observing the undisturbed robins, marking their positions on maps, and then connecting the outermost points. Territory sizes were calculated by cutting each plotted territory from the map, weighing each plotted territory, and then interpolating territory size from weighed map sections representing areas of known size.

Twenty-two adult robins, 16 males (M) and 6 females (F), were captured in mist nets on the Quadrangle. Three (2M, 1F) were captured in 1971; 2 (1M, 1F) in 1972; 6 (4M, 2F) in 1975; 7 (6M, 1F) in 1976; and 4 (3M, 1F) in 1977. In addition to the standard USFWS leg band, each of the 5 robins captured in 1971-72 received a yellow nylon wing tag as described by Hewitt and Austin-Smith (1966). Each wing tag carried a single 2.5 cm tall numeral applied with indelible ink. Each of the other captured robins was banded with a standard USFWS band and a unique combination of colored plastic leg bands.

RESULTS AND DISCUSSION

Robins were regularly present on the study area during March-September. During mild, sunny days in January and February, 1-6 robins could be seen; additional robins moved onto the study area in late February and early March. Possibly some of these birds were migrants. Territorial behavior intensified in mid- and late-March with some nest building in late March, especially in mild years. First clutches were typically laid in early April. By mid-August many of the robins moved off of the study area to molt in more heavily wooded areas.

We were not able to study all of the territories on the Quadrangle in most years, primarily due to lack of time. When we plotted the territories, conspicuous gaps were sometimes present on our maps. A review of our field notes allowed us to determine in most cases whether or not an area we had not studied was occupied by robins. Consequently, we were able to estimate the number of territories on the Quadrangle each year. Table 1 summarizes these findings. In 1975 we were able to plot all of the territories on the Quadrangle; virtually all of the Quadrangle was used by robins that year, as we presumed it was during the other years.

Mean territory size (Table 1) is based on territories whose boundaries were stable during the study even though some of these territories extended off of the Quadrangle. The mean size of 62 territories was 0.42 ha (1.04 acres) with a range of 0.12-0.84 ha (0.30-2.08 acres). The mean size of territories reported by Young (1951) in Wisconsin was 0.30 acres (0.12 ha) with a range of 0.11-0.60 acres (0.04-0.24 ha). Howell (1942) found that territories in New York averaged 0.28 acres (0.11 ha) in a dense population and 0.51 acres (0.21 ha) in a sparse population.

The reasons for the much larger territories in northwest Tennessee are not clear. Possibly the habitat was less suitable for robins than in the other areas. A

TABLE 1. Summary of characteristics of American Robin Territories on the University of Tennessee at Martin Quadrangle.

Year	No. territories studied	Mean size (ha)	Smallest territory (ha)	Largest territory (ha)	Total territories on Quadrangle ^a
1971	6	0.33	0.27	0.44	10.5
1972	6	0.55	0.41	0.75	8.4
1974	9	0.38	0.21	0.62	11.1
1975	11	0.51	0.19	0.84	9.1
1976	9	0.45	0.13	0.74	9.4
1977	11	0.34	0.12	0.60	11.3
1980	8	0.35	0.16	0.59	10.2
	62	0.42 ^b			10.0 ^b

^a Estimated by censuses of robins and nests. ^b Mean for all seven years.

limited supply of preferred nest sites may have been available since evergreen shrubs, in which the robins frequently nested, were not abundant. This idea is supported by the observations of Young (1955) who found 60 of 79 nests in edge situations. Another factor possibly influencing territory size may be the short time robins have nested in northwest Tennessee. Mengel (1965:359) believes robins did not nest west of the Tennessee River before 1900. Robins now nest in the urban areas of northwest Tennessee but few nest in rural areas. Possibly as the breeding population increases, territory size will decrease.

Part of the variation among years in the mean size of territories may be attributed to the fact that different observers plotted territories most years. However, the smallest mean size (in 1971) and the largest mean size (in 1972) were reported by the same observer. Comparison of mean territory size with the number of territories (Figure 1) shows a negative correlation of 0.90 ($r^2 = 0.81$). Howell (1942) also found an inverse relation between population size and territory size.

Table 2 summarizes the number of years each banded bird was present on the study area. With the small sample size it is not surprising that longer life spans were not recorded. Farner (1945, 1949) calculated an annual mortality rate of 46%, with robins nesting for the first, second, and third years making up 92% of the breeding population. Eleven of 22 (50%) robins banded on the Quadrangle were not observed again. Some of these birds, especially those captured in February and March, may have been migrants that were only temporarily stopping on the area to feed or roost. Several of the banded birds

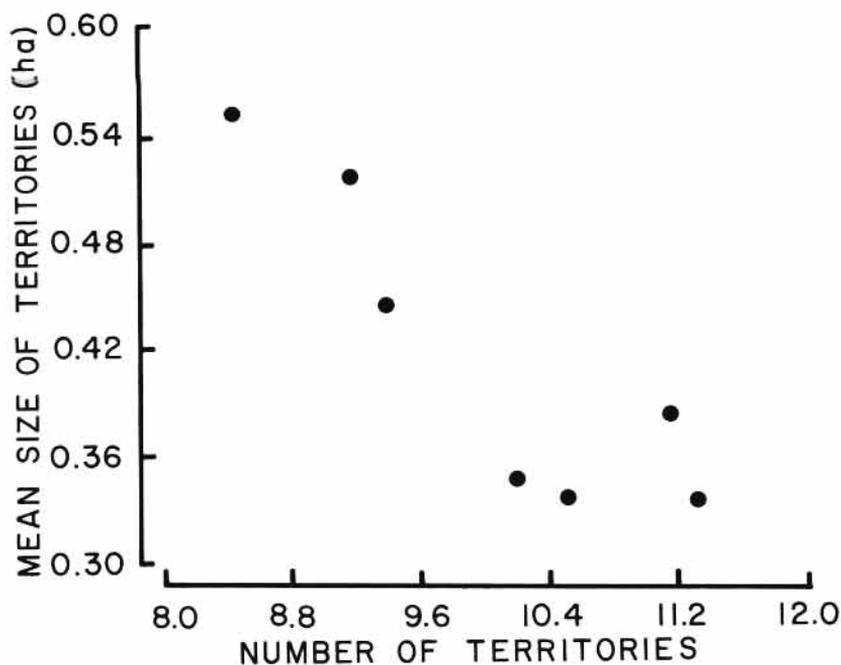


FIGURE 1. Comparison of territory size and number of territories of American Robins on the University of Tennessee at Martin Quadrangle.

TABLE 2. Number of years banded adult American Robins were present on the University of Tennessee at Martin Quadrangle.

Number of years present	Females	Males
0 ^a	3	8
1	2	4
2	0	3
3	1	1

^a Robins that were not observed on the study area after banding.

that did not have territories on the Quadrangle apparently had territories nearby. For example, a male banded on 6 March 1975 was not seen again until found dead on a road 300 m off of the Quadrangle on 19 July 1975. Also, a female banded on the Quadrangle in 1975, but not known to have nested there that year, did nest on the Quadrangle in 1976 and 1977. Likewise, a male banded in 1975 was not again seen on the Quadrangle in 1975 or 1976 but established a territory there in 1977.

Males roosted communally, as described by Howell (1940), at least during the early part of the nesting season. Some of the males we banded were captured near roosts during late evening when the robins had more difficulty evading mist nets. Almost certainly some of these birds possessed territories nearby.

Observations of 3 males provided some information about changes in size and shape of territories between nesting attempts and between years for individual robins. Male -02 defended a territory of 0.43 ha during the first nesting period of 1972 and a territory in the same area of 0.50 ha (16% increase) during the second nesting period of 1972. Male -03 maintained territories of similar size and shape and at the same location during the first and second nesting periods of 1971; however, we did not measure the size of his territory during the second period. In 1972, male -03 established territories at a new site adjacent to the Quadrangle. Both of these territories were at the same location and were approximately the same size and shape but we did not plot them. Male -09 defended a territory of 0.53 ha in 1976, and he returned to defend a territory of 0.48 (9% reduction) at the same location in 1977.

Our other observations concur with those of previous workers such as Howell (1942) and Young (1951). Both male and female defended the pair's territory, although the male was responsible for its establishment. Each pair nested within its territory, but the nest was rarely at the center of the territory. Both members of some pairs occasionally left their territory to feed. A damp area, about 100 m from the Quadrangle, with short grass and no shrubs or trees was used for feeding by many robins, including some from the Quadrangle. Overlapping of some territories occurred during at least 5 of the 7 years of our study. The highest frequency of overlapping was observed in 1975 when 6 pairs of territories were involved. The amount of overlapping by adjacent territories ranged from 0.03-0.08 ha in 1975; this amount was typical of other years. The largest amount of overlap constituted 21% of the smaller of the 2 territories involved.

SUMMARY

American Robin territories were studied for 7 years in northwest Tennessee. The mean size of 62 territories was 0.42 ha (1.04 acres) which was much larger than previously reported values from other areas. Territory size was inversely related to population density. Of 22 banded adult robins 6 are known to have lived through 1 nesting season, 3 are known to have lived through 2 nesting seasons, and 2 are known to have lived through 3 nesting seasons.

ACKNOWLEDGMENTS

I want to thank the following former students: Les Brown (1971 and 1972); Marty Jacobus (1974); Gordon Lum (1975); Allen Robison and David Pulliam (1976); and, David Armstrong and Ross Hester (1977).

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Department of Biological Sciences, University of Tennessee at Martin, Martin, TN 38238. Accepted 25 June 1984.

THE 1983 CHRISTMAS BIRD COUNT

RICHARD L. KNIGHT

This year 140 species were reported from 22 counts across Tennessee. The number of species is a record high; 139 species were reported in 1971 and 1978. The number of counts is near the average of the past decade. Red-necked Grebe and Black Scoter appear on a Tennessee CBC for the first time, bringing the total number of species to 207. Other notables include American Bittern, Tundra and Mute Swans, White-winged Scoter, Northern Goshawk, Merlin, and Dickcissel. Also notable are high counts of Pied-billed Grebe, Great Blue Heron, Killdeer, Ring-billed Gull, and Red-headed Woodpecker, among others. Three counts reported more than 100 species.

With two exceptions, the counts were lumped at the ends of the counting period (17 Dec. - 2 Jan.). Eight counts were conducted on the opening weekend and 12 on or about the last weekend. Reasons for this include the fact that Christmas occurred on the middle weekend and the severe, sub-freezing weather which struck just before Christmas. Counts held the first weekend reported low temperatures slightly below freezing; whereas counts held near the last weekend reported mostly single-digit lows. Precipitation was reported from only one count and snow cover from the two easternmost counts. Most counts held after Christmas reported considerable ice on lakes and rivers.

INFORMATION ON THE COUNTS

MEMPHIS — 18 Dec.; 0630 to 1630; overcast; temp. 31-36°F; wind N, 10-18 mph; 36 observers in 13 parties; 124 party hours (93 on foot, 31 by car); 193 party miles (73 on foot, 120 by car). Diane & William Bean, Carolyn Bullock, Fred Carney, Tina Carpenter, Robert Casey, Ben & Lula Coffey (compilers— 672 N. Belvedere, Memphis, TN 38107), Dollyann Daily, Julian Darlington, Fred Dickson, Helen Dinkelspiel, Jack Embury, Robert Endres, Jim Ferguson, Bill Fowler, Joe Guinn, Van Harris, Robert Ilardi, Susan Keeton, Dave Kesler, Patsy King, Selma Lewis, Mike Likens, George Payne, Bill & Rob Peeples, Martha Rast, Ernest Restivo, Arlo & Noreen Smith, Richard Taylor, Phillip Waldon, Martha Waldron, Wendell Whittemore, Jeff Wilson. The Snow Goose was of the blue form. The Bald Eagle was an immature. Two of the Northern Flickers were of the red-shafted form. In addition, there were 50,000 unidentified blackbirds reported. Seen during count period — Yellow-breasted Chat.

REELFOOT — 17 Dec.; 0530 to 1630; clear; temp. 24-42°F; wind NE, 0-5 mph; 13 observers in 5 parties; 45 party hours (26 on foot, 19 by car) plus 1.5 owling; 290 party miles (22 on foot, 268 by car) plus 8 owling. Ben & Lula Coffey, Wendell Crews, Kathy Davidson, Bill Fowler, Daniel Jacobson, Don & Gina Manning (compilers — Rt. 1, Box 303, McKenzie, TN 38201), George Payne, David Pitts, Mike & Wallace Todd, Scotty Wiggleton. Eight of the Snow Geese were of the blue form. Forty-three of the Bald Eagles and one of the Golden Eagles were adults. Good details submitted.

BUFFALO RIVER (Lawrence County) — 30 Dec.; 0630 to 1730; clear; temp. 3-20°F; wind N, 5-10 mph; 13 observers, 12 in 6 parties plus 1 at feeder; 47 party hours (21.5 on foot, 25.5 by car) plus 0.75 owling, 2 at feeder; 298 party miles (16 on foot, 282 by car) plus 2 owling. Andy Augustin, Helen & Lloyd M. & Lloyd W. Clayton, Jane Egly, David Ihrie, Chester & Dot McConnell, Royce Neidert, Damien & Dawn Simbeck, Don Simbeck (compiler — Rt. 2, Box 3A, Loretto, TN

THE 1983 CHRISTMAS BIRD COUNT

	Memp	Reel	Buff	Clar	Ashl	Colu	DRR	Nash	Blck	Murf	Leba	High	Pick	Chat	Hita	Knox	GSMR	Gre	King	Bris	Eliz	Roan
Common Loon	2	2	4	2	3	3	1	1	1	1	4	2	3	122	151	24	1	1	2	5	5	1
Pied-billed Grebe	20	4	4	2	3	3	2	19	55	55	4	2	3	95	2	3	1	1	11	12	6	6
Horned Grebe	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Red-necked Grebe	30	8	8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
DBL.-cr. Cormorant																						
American Bittern	11	35	1	15	37	2	1	11	32	3	45	8	1	46	292	69	3	41	6	7	1	1
Great Blue Heron															4							
Great Egret																1			2			
Green-backed Heron									12						1	8	6		1			
Blk.-cr. Night-Heron																						
Tundra Swan					4				1	1												
Mute Swan					1				1													
Snow Goose	1	11	14	1	2	2									3							
Canada Goose	7	148	124	34	222	250	30	213	1900	2	1700				2700	117		86	47	8		
Wood Duck	21	35			6	3		5		5				10		2		3				4
Green-winged Teal	20				29										34							
Amer. Black Duck	2	550	1	14	270	58	1	40	42		6	6	2	1300	16		156	5		34		34
Mallard	298	228	24	242	2400	245	14	467	718	4	1100	14	50	326	168	57	25	617	131	40	51	
Northern Pintail	15				6	50					185			1	76		1				1	
Blue-winged Teal	2	5												1								
Northern Shoveler	125					1								8	15							
Badwall	3	1600	2	32	37	17		64	92		321			147	615	68			10			
American Wigeon	4	850	2	1	25			31		3	378			21	198	4						
Canvasback	10					1		6	16				13						5		1	
Redhead	25					2							2	31		2	1		16			
Ring-necked Duck	39	850	1	6	27			90	36					209	54	8	1				8	
Greater Scaup											47			301	5							
Lesser Scaup	4	200			15	1		120	61				125	44	47	14			6		1	
Black Scoter														1								
White-winged Scoter														2								
Common Goldeneye	8	30			1			3	170	1			1	91	4	2		16				
Bufflehead	30							45	82			1		112	21	15			20		60	
Hooded Merganser	30				1			39			22			6	139	28			1		1	
Common Merganser	8	5																	3		3	
Red-br. Merganser									46					9	8				1		7	
Ruddy Duck	3	1300				2		1		1	2			29	8				2			
Black Vulture	15	10	25	12	87	32	17			10	12				17			1	4	12		
Turkey Vulture	1	10	16	15	33			4			4			12	7			6	8	11		
Bald Eagle	1	61		1	2								3	2	3							
Northern Harrier	7	6	8			3	4	2	2	3	1	2	2	2	2	1						

	Hump	Reel	Buff	Clay	Ashl	Colu	DRR	Nash	Hick	Murf	Loza	High	Pick	Chat	Htwa	Knox	GSMN	Gre	King	Bris	Ellz	Ronn
Sharp-shinned Hawk	1	--	--	3	3	--	2	--	2	1	1	--	--	3	2	2	1	--	1	1	2	--
Cooper's Hawk	--	1	1	1	--	2	3	--	1	1	1	--	--	5	2	1	--	3	2	4	--	--
Northern Goshawk	--	--	--	--	--	--	--	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--
Red-shouldered Hawk	2	4	--	8	9	--	--	1	5	--	1	--	--	5	11	2	--	--	--	5	1	--
Red-tailed Hawk	53	39	24	21	18	24	19	30	27	30	11	--	1	25	28	27	5	13	8	10	4	3
Rough-legged Hawk	--	2	--	--	--	--	1	--	--	--	2	--	--	--	--	--	--	--	1	--	--	--
Golden Eagle	--	2	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
American Kestrel	16	28	15	13	24	18	22	30	29	75	16	11	8	14	24	15	9	13	9	27	6	--
Merlin	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
Ruffed Grouse	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	--	--	--	--	--
Wild Turkey	21	11	--	--	--	--	--	--	--	--	--	8	--	30	--	--	--	--	--	--	--	--
Northern Bobwhite	66	7	19	33	51	79	33	129	39	1	--	10	4	6	10	18	10	13	2	--	1	--
Virginia Rail	--	--	--	--	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sora	--	--	--	--	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
American Coot	40	3500	--	--	24	1	--	5	28	16	53	--	--	498	3000	249	--	1	28	50	--	--
Killdeer	142	75	15	3	122	9	7	34	27	17	4	1	6	597	101	173	23	20	16	11	84	--
Spotted Sandpiper	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--
Least Sandpiper	43	--	--	--	--	--	--	--	--	--	--	--	--	--	4	--	--	--	--	--	--	--
Dunlin	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Common Snipe	16	1	6	--	--	26	1	6	3	1	--	--	--	9	14	9	1	--	--	--	8	--
American Woodcock	--	1	1	--	3	1	--	1	1	--	--	--	--	1	--	--	--	--	--	--	--	--
Bonaparte's Gull	12	9	--	--	18	--	--	--	300	--	--	--	--	138	2	97	--	--	--	--	--	--
Ring-billed Gull	250	2300	--	1	33	--	--	3	3800	--	24	--	--	355	213	331	--	--	218	25	1	--
Herring Gull	4	6	--	--	--	--	--	--	67	--	--	--	7	5	21	4	12	--	--	1	--	--
Rock Dove	1	28	23	100	187	10	55	261	202	60	46	19	4	400	17	252	25	99	312	43	84	1
Mourning Dove	452	248	92	132	153	105	149	475	159	110	51	86	14	620	234	621	193	240	132	150	379	--
Common Barn-Owl	--	--	--	--	--	--	--	--	--	--	2	--	--	1	--	--	--	--	--	--	--	--
Eastern Screech-Owl	--	1	1	--	1	3	6	11	5	--	6	--	--	1	3	9	5	1	--	1	11	1
Great Horned Owl	1	7	3	1	2	9	9	13	2	--	4	--	2	1	5	6	--	--	--	6	2	1
Barred Owl	1	4	1	3	3	1	6	4	--	--	9	--	1	1	1	--	--	--	--	--	--	--
Belted Kingfisher	11	12	6	6	15	6	3	15	10	19	9	1	1	42	67	53	12	4	11	6	18	--
Red-headed Woodpecker	77	199	2	3	14	13	4	26	6	--	1	2	5	8	1	1	--	--	--	--	--	--
Red-bellied Woodpecker	123	72	30	45	33	42	30	93	49	6	12	9	13	45	33	48	12	30	11	5	4	--
Yellow-bel. Sapsucker	42	13	4	17	9	15	6	35	13	6	2	1	2	21	14	18	19	4	--	4	10	1
Downy Woodpecker	63	17	15	43	29	35	22	111	52	16	4	5	2	37	22	51	66	17	17	22	42	4
Hairy Woodpecker	14	6	--	7	7	7	5	17	9	6	4	--	2	5	6	3	19	5	8	1	6	1
Northern Flicker	129	62	42	27	35	22	14	64	70	27	9	4	2	44	34	57	8	7	15	12	13	1
Pileated Woodpecker	18	16	5	15	15	23	4	21	5	--	1	--	7	13	21	26	27	9	8	5	15	--
Eastern Phoebe	1	2	1	--	4	2	--	3	--	1	1	--	--	5	4	1	15	1	2	1	5	--
Horned Lark	63	44	461	100	73	12	--	58	8	--	--	11	--	1	1	3	--	1	--	--	--	--
Blue Jay	369	132	64	115	83	76	89	184	78	56	79	30	20	167	194	265	28	99	101	78	123	24
American Crow	170	344	221	163	501	79	191	3500	304	256	159	242	50	395	1100	889	377	212	124	205	616	171
Common Raven	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10	--	--	1	2	8
Black-capped Chickadee	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carolina Chickadee	141	134	36	122	54	52	77	313	153	63	32	6	16	134	126	224	292	105	95	63	114	16

	Memp	Reel	Buff	Clar	Aehl	Colu	DRR	Nash	Hick	Murf	Leba	High	Pick	Chat	Hwa	Knox	GSMN	Gre	King	Bris	Eliz	Roan
Tufted Titmouse	141	134	36	122	54	52	77	313	153	63	32	6	16	134	126	224	292	105	95	63	114	16
Red-breasted Nuthatch	27	7	1	1	2	2	1	1	1	1	1	1	1	10	1	3	2	1	3	2	7	13
White-br. Nuthatch	1	9	12	20	5	2	1	59	3	1	2	3	7	18	8	32	47	3	21	15	22	9
Brown-headed Nuthatch	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Brown Creeper	24	17	1	4	5	1	6	24	16	1	1	1	1	5	4	18	17	5	1	3	8	1
Carolina Wren	113	54	15	33	36	45	29	97	44	17	10	5	6	84	82	176	81	41	52	19	92	16
Beck's Wren	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
House Wren	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Winter Wren	13	9	2	3	2	2	1	7	3	1	1	1	1	3	7	10	16	1	1	3	5	1
Golden-cr. Kinglet	49	15	14	6	14	8	14	19	23	2	1	1	1	42	40	90	108	13	21	20	57	3
Ruby-crowned Kinglet	31	16	14	6	3	3	11	6	4	2	1	1	1	38	16	18	1	1	1	1	2	17
Eastern Bluebird	21	44	49	67	54	60	82	27	45	52	8	8	39	7	135	88	63	34	47	18	28	11
Horned Lark	12	71	9	3	21	20	7	1	1	1	1	1	1	10	15	13	12	1	4	1	10	1
American Robin	1100	45	16	44	237	600	93	9000	1800	159	92	1	1	304	319	2000	120	112	4	1	128	18
Gray Gnatbird	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Northern Mockingbird	165	35	62	88	43	41	42	159	124	69	36	28	8	96	107	245	17	45	46	52	47	2
Brown Thrasher	29	11	9	6	5	15	3	9	11	9	1	1	1	10	18	5	2	4	1	1	3	1
Water Pipit	1	3	1	1	1	1	1	50	51	1	1	1	1	184	53	1	1	1	1	1	1	1
Cedar Waxing	228	168	84	230	62	39	13	243	296	17	54	1	1	190	594	515	42	72	26	15	300	1
Loggerhead Shrike	12	25	8	3	16	17	16	16	14	1	2	1	2	3	10	9	1	1	1	1	1	1
European Starling	3800	2600	1700	4100	2600	2500	1100	5200	1100	600	2800	795	800	2100	1500	400	486	3600	1100	1400	2600	16
Orange-cr. Warbler	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Yellow-cr. Warbler	108	134	1	26	45	15	7	19	29	2	20	1	9	151	115	191	21	69	56	7	82	1
Pine Warbler	2	1	1	1	1	1	1	1	1	1	1	1	1	11	13	1	1	1	1	1	1	1
Palm Warbler	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Northern Cardinal	540	278	243	515	381	165	190	790	265	203	119	53	46	176	189	408	129	124	151	121	340	10
Dickcissel	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Rainco-s. Towhee	65	6	83	117	19	54	55	199	56	27	3	16	6	76	62	140	38	14	10	3	30	24
Amer. Tree Sparrow	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Chipping Sparrow	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Field Sparrow	160	53	400	13	35	94	149	320	47	48	7	7	12	148	184	202	84	66	31	94	55	8
Vesper Sparrow	16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Savannah Sparrow	47	14	8	1	48	14	3	49	50	1	1	1	1	20	38	26	1	1	1	1	1	1
Fox Sparrow	51	20	11	8	1	6	11	26	6	2	2	1	1	5	3	1	2	1	1	1	1	1
Song Sparrow	213	91	208	84	101	68	78	345	162	50	26	17	25	299	475	672	345	82	244	106	268	83
Lincoln's Sparrow	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Swamp Sparrow	147	71	52	10	63	59	5	46	51	1	1	1	1	23	94	14	10	10	10	10	3	2
White-thr. Sparrow	1300	405	149	261	102	255	120	660	177	37	35	32	50	295	591	1100	367	340	201	87	337	4
White-cr. Sparrow	28	6	40	4	1	104	62	37	16	31	10	1	1	16	2	23	1	43	7	29	1	1
Harris' Sparrow	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dark-eyed Junco	751	295	553	334	143	225	271	794	175	78	50	17	120	80	243	70	325	56	73	127	202	124
Lapland Longspur	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Red-winged Blackbird	910	417	60	15	765	508	141	1600	100	1000	1000	2	1	419	274	158	145	2	6	1	3	1
Eastern Meadowlark	277	122	201	40	72	55	60	183	112	60	46	40	22	214	158	130	28	91	35	29	61	1
Rusty Blackbird	906	10	1	4	1	2000	1500	80	64	1	1	1	1	45	28	3000	132	1	1	1	1	1

38469), Wiley Willis. In addition, there was one *Accipiter sp.* and two *Buteo sp.* reported. Excellent details submitted.

CLARKSVILLE — 31 Dec.; 0700 to 1600; clear; temp. 2-32°F; wind light; 25 observers, 8 in 4 parties plus 17 at feeders; 31 party hours (14 on foot, 17 by car); 256 party miles (12 on foot, 244 by car). Ginny Clark, Adney Criss, Mike Filson (compiler — 1671 Paradise Hill Rd., Clarksville, TN 37040), Jerold Harris, Bill Hudson, Bill & Gloria Milliken, Ellen Walker. Names of feeder watchers not submitted. Good details on Mute Swan.

ASHLAND CITY — 17 Dec.; Rocky Milburn (compiler). Seen during count period - Northern Shoveler, House Finch, Pine Siskin. No other details submitted.

COLUMBIA — 31 Dec.; 0600 to 1700; clear; temp. 9-47°F; wind SE, 0-5 mph; 14 observers, 11 in 6 parties plus 3 at feeders; 27 party hours (12 on foot, 12 by car, 3 by canoe) plus 8 at feeders; 174 party miles (11 on foot, 156 by car, 7 by canoe). Kenneth Anderson, Mary Lucy & William Fuqua, Daniel Gray, Phyllis Herrmann, William Jernigan, Allyn Lay, Anne & Bedford Lochridge, Mary Lyles, Cleo & Mark Mayfield, George Mayfield, Jr. (compiler — 999 Sunnyside Dr., Columbia, TN 38401), Allen Pressnell. One of the Snow Geese was of the blue form.

DUCK RIVER RESERVOIR — 2 Jan.; 0500 to 1700; overcast; temp. 28-38°F; 11 observers. Kenneth Anderson, Glenda Bowman, Nancy Byer, William Jernigan, Anne & Bedford Lochridge, George & Rad Mayfield, Allen Pressnell (compiler — P.O. Box 1498, Columbia, TN 38401), Diane Pressnell, Eddie Seagraves.

NASHVILLE — 26 Dec.; 0500 to 1800; cloudy to overcast; temp. 0-20°F; wind S, 10-15 mph; 53 observers, 36-38 in 8 parties plus 15-17 at feeders; 95 party hours (53 on foot, 42 by car) plus 34 at feeders, 3 owling; 362 party miles (37 on foot, 325 by car) plus 3 owling. Jan Alexander, Linda Anderson, John Bates, Rick Beinecke, Jane Bridgman, Lyle Brownlee, Polly Clarke, Elizabeth Collins, Bonnie Coplin, Annella Creech, Jerry Drewry, Milbrey Dugger, John Ellis, Lulu Estis, Charles Farrell, Clara Fentress, Lucy Finch, Bettye & John Fort, Twinkle Gibbons, Ed Gleaves, Katherine Goodpasture, Mary Anne & Tom Guschke, Bob Hatcher, Louise Jackson, Edgar Jolly, Lee Kramer, Mildred Lawrence, Peter Lefferts, Portia Macmillan, Margaret Mann, E.K. Mattimore, Jane

	Memp	Reel	Buff	Clar	Ashl	Colu	DRR	Nash	Hick	Murf	Leba	High	Pick	Chat	Hwa	Knox	GSMN	Gree	King	Bris	Eliz	Roan
Brewer's Blackbird	9																					
Common Grackle	154	3200	1400	7000	42	1008	894	77	1500	2100	1400						470	66	18M	2000	5	
Brown-headed Cowbird	1000	29	7	112	7	5000	245	189	71	803	1	1	297	15	15M	1				4		
Northern Oriole																						
Purple Finch	131	1	58	61	13	68	122	129	78	34	9	12	13	80	76	338	70	46	24	36	35	12
House Finch																						
Pine Siskin	29																					
American Goldfinch	252	48	105	180	171	140	200	664	104	87	71	15	3	464	243	431	100	15	52	114	114	8
Evening Grosbeak																						
House Sparrow	209	506	140	219	39	51	3	110	163	220	41	175	150	59	46	118	72	88	44	108	103	32
Total Species	91	102	71	76	84	81	67	87	87	64	72	46	51	104	102	88	63	63	71	63	68	32
Grand Total = 140	M = 1000	X = 1,000,000																				

Maynard, Rocky Milburn, Bob Parrish, Henry Parmer, Marge Patrick, Virginia Price, Elizabeth Queener, Larry Raye, Heather Riggins, Jim Snapper, Pat Stallings, Helen Sterling, Ann Tarbell (compiler — 6033 Sherwood Dr., Nashville, TN 37215), Barry Tillman, Lawrence Trabue, David Vogt, Kenneth Walkup, Miriam Weinstein, Betty Worden, Virginia Workman. Ruddy Shelduck, a common species among captive waterfowl, was deleted. In addition, there was one *Accipiter* sp. reported. Seen during count period — Ovenbird. Good details submitted.

HICKORY-PRIEST — 31 Dec.; 0430 to 1730; clear; temp. 4-35°F; wind E, 4-5 mph; 26 observers, 24 in 7 parties plus 2 at feeders; 63.5 party hours (30.5 on foot, 33 by car) plus 10 at feeders, 3 owling; 233 party miles (25 on foot, 208 by car). Frances Abernathy, Jan Alexander, Linda Anderson, Rick Bienecke, Dot & Paul Crawford, Jerry Drewry, Mary Anne & Tom Guschke, Carol Knauth, Lee Kramer, Margaret Mann, Rocky Milburn, Dick Newton, Steve Rannels, Larry Raye, Bob & Lillian Sharp, Jim Snapper, Pat Stallings (compiler — 406 N. 17 St., Nashville, TN 37206), Ellen Stringer, Dale & Janet Townsend, David Vogt, Miriam Weinstein, Betty Worden. In addition, there were 3 *Accipiter* sp. reported. Seen during count period — Green-winged Teal, American Wigeon, Pine Siskin.

MURFREESBORO — 17 Dec.; 13 observers, 12 in 5 parties plus 1 at feeder. Lou A. Erwin, C.E. Greever, Edith Haynes, Anne L. Hettish (compiler — 1018 Lawndale Dr., Murfreesboro, TN 37130), Richard E. & Wilma J. Hunter, Don & Linda Magee, Larry McFarlin, Gene & Ruth Odom, John Patten, Terry Witt. The Dickcissels were in a flock. The Northern Oriole was reported as the Bullock's form; however, the details did not eliminate the Baltimore form.

LEBANON — 17 Dec.; 0700 to 1630; clear; temp. 22-42°F; 8 observers. Earline & Vernon Berry, Fred Detlefsen, Ruth McMillan, Margaret Partee, Paulette Pope, Ray Pope (compiler — 211 W. Forrest Ave., Lebanon, TN 37087), Tressa Waters.

HIGHLAND RIM — 28 Dec.; cloudy; temp. 32-40°F; 12 observers, 10 in 3 parties plus 2 at feeders; 11.75 party hours plus 4 at feeders; 128 party miles. Carroll & Stan Barr, Katherine Cleekley, Marjory Harper, Phil & Nicky Medley, Erma Rogers, Mary Shelton, Jean Sullivan, Lillie Willard (compiler — 100 N. Washington, 2D, Tullahoma, TN 37388), Evelyn Wilson, Wanda Winnett.

PICKETT COUNTY — 31 Dec.; 0700 to 2000; clear; temp. 6-36°F; 2 observers in 1 party; 13 party hours; 26 party miles (1 on foot, 25 by car). David & Robbie Hassler (compilers — Rt. 1, Box 164A, Byrdstown, TN 38549).

CHATTANOOGA — 17 Dec.; 0500 to 1830; clear; temp. 30-45°F; wind N-NW, 0-20 mph; 31 observers, 23 in 10 parties plus 8 at feeders; 90 party hours (75 on foot, 15 by car) plus 25 at feeders; 321 party miles (83 on foot, 238 by car). Carl Adams, Nelson Bennett, Dale Blum, Katherine Boyles, Jim Brown, Louise Cash, Angela Davis, Ken & Lil Dubke, Paul Harris, John Henderson, Al Jenkins, Starr Klein, Sandra Kurtz, Barbara & Michael McMahan, Johnny Parks, Peter Robinson, Robin Rudd, Gene Ryther, Randy Stringer (compiler — 758 Emory Dr., Chattanooga, TN 37415), Carl Swofford, Don Williams. Caribbean Coot was deleted (see *Migrant* 53:82, 1982). The Bald Eagles were immature. In addition, there were 40 scaup sp., 8 scoter sp., and 1 swallow sp. reported. Seen during count period - Canvasback, Evening Grosbeak. Excellent details submitted.

HIWASSEE — 31 Dec.; 0500 to 1830; clear; temp. 5-30°F; 15 observers in 9 parties; 72.5 party hours (47 on foot, 24.5 by car, 1 by boat); 544 party miles (43 on foot, 491 by car, 10 by boat). Del Blum, Edith Bromley, Carl Campbell, Angela Davis, Ken & Lil Dubke, Dick Hughes, Al Jenkins, Tony Koella, Brian Locke, Dave Matthewson, Chuck Nicholson, Johnny Parks, Robin Rudd, Boyd Sharp, Randy Stringer (compiler). The Snow Geese were of the blue form. One of the Bald Eagles was an adult. In addition, one *Accipiter sp.* was reported. Excellent details submitted.

KNOXVILLE — 18 Dec.; 0445 to 1745; clear to partly cloudy; temp. 29-46°F; wind light & variable; 32 observers in 13 parties; 97 party hours (60 on foot, 37 by car) plus 4 at feeders, 10 owling; 537 party miles (60 on foot, 477 by car) plus 60 owling. Betty Adams, Laurie Armstrong, Richard Bateman, Frank Bills, Sharon Bostick, Betty & Jim Campbell, Howard Chitwood, Bill Cowart, Marcia Davis, Barbara Finney, Linda Fowler, Louise Fuller, Rebecca Hammitt, Paul Hartigan, Audrey & Ron Hoff, Joseph Howell, Hal Hubbs, Ken McLean, Charles Nicholson, Holly Overton, J.B. Owen, Paul Pardue, Don Powers, Mark Reeves, Stephen Satterfield, Boyd Sharp, Nancy Shepard, James Tanner (compiler — Rt. 28, Box 155, Knoxville, TN 37920), Keith Watson, Roland Wauer. Seen during count period - Northern Shoveler, Canvasback, Ruddy Duck. Good details submitted.

GREAT SMOKY MOUNTAINS NATIONAL PARK — 2 Jan.; 0530 to 1715; partly cloudy to overcast; temp. 26-46°F; 25 observers in 12 parties; 88.5 party hours (64.5 on foot, 24 by car); 225.5 party miles (67.5 on foot, 158 by car). Betty Adams, John Burkhart, Howard Chitwood, Marcia Davis, Don DeFoe (compiler — GSMNP, Gatlinburg, TN 37738), Dale & Linda Fowler, Louise Fuller, Rebecca Hammitt, David Hankins, Paul Hartigan, David Highbaugh, Joe Howell, Tony Koella, Bill McNutt, Charles Nicholson, Holly Overton, J.B. Owen, Truett Patterson, Stephen Satterfield, Boyd Sharp, Nancy Shepard, Lillian Smathers, Jim Tanner, Keith Watson, Ro Wauer. In addition, one scaup sp. was reported.

GREENEVILLE — 31 Dec.; 0700 to 1700; clear; temp. 8-38°F; wind 0-5 mph; 23 observers, 16 in ? parties plus 7 at feeders; 31 party hours; 95 party miles (13 on foot, 82 by car). Martha Bible, Ben & Phine Britton, Connie & David Bryant, Douglas Caruthers, Marjorie Earnest, King & Margaret Gaut, Marguerite McLeod, Richard & Willie Ruth Nevius, Doug Ratledge, Helen Spees (compiler — P.O. Box 356, Greeneville, TN 37743), Royal Spees, Virginia Williams. Names of feeder watchers not submitted. Common Redpoll was deleted; no details were submitted. Seen during count period — Great Horned Owl.

KINGSPORT — 31 Dec.; 7 observers in 5 parties. Fred Alsop, Betsy & Robert Baker, Helenhill Dove, Tom Finucane (compiler — 1434 Watauga St., Kingsport, TN 37660), E.E. Scott, Arthur Smith. Adequate details on Rough-legged Hawk.

BRISTOL — 31 Dec.; 9 observers in 4 parties; 24 party hours; 227 party miles. Wallace Coffey, Glen Eller, Bert & Ken & Loraine Hale, Tom Laughlin, Richard Lewis (compiler — Rt. 3, Box 470, Bristol, TN 37620), Herbert & R.E. van Nostrand.

ELIZABETHTON — 17 Dec.; 0415 to 1745; overcast to clear; temp. 32-46°F; light snow/rain before dawn; 2 in. snow at high elevations; 21 observers in 7 parties; 56 party hours (28.5 on foot, 27.5 by car) plus 2.75 owling; 323.5 party

miles (17.5 on foot, 306 by car) plus 22 owling. Martha Dillenbeck, Helenhill Dove, Glen Eller (compiler — Rt. 3, Box 52, Grandview Terrace, Elizabethton, TN 37643), Harry Farthing, Elizabeth Funkhouser, Sally Goodin, Dick & Mildred Hegler, Lois Herndon, Ralph Keffer, Rick Knight, Joy Kyle, Richard Lewis, Dick Lura, Ed Schell, Rita Scher, Glenn Swofford, Gary Wallace, Barbara Walsh, Frank Ward, Jane Whitehead. Seen during count period — Ruddy Duck, Cooper's Hawk, American Coot, Horned Lark, Loggerhead Shrike. Watauga Lake was 80 ft. below its normal mid-winter level.

ROAN MOUNTAIN — 1 Jan.; 0630 to 1630; clear; temp. 17-42°F; 1 in. snow at mid-elevations on Tenn. side only; 5 observers in 2 parties. Glen Eller (compiler), Dick Hegler, Rick Knight, Ed Schell, Glenn Swofford. Seen during count period — Cooper's Hawk, Ruffed Grouse, Rock Dove, Red-bellied Woodpecker, Eastern Meadowlark.



ROUND TABLE NOTES

BLACK-LEGGED KITTIWAKE IN STEWART COUNTY, TENNESSEE — On 10 December 1983, while watching gulls at Bard's Lake, at Brandon Springs Group Camp, Land Between the Lakes, Stewart County, Tennessee, I noticed a solitary gull that appeared different from the numerous Ring-billed Gulls (*Larus delawarensis*) present. At first I thought it might be a Bonaparte's Gull (*L. philadelphia*), but it had a neck band. As it then flew, I realized that it was a Black-legged Kittiwake (*L. tridactyla*). It was an immature bird, with a black "W" pattern across the back and wings, a black half-collar, a black spot behind the eye, and a black bill.

After I watched it and an immature Oldsquaw (*Clangula hyemalis*) for a while, I hurried home and telephoned Jerry Drewry of Nashville. He arrived in about 2 hours, and we both saw the bird. Other birders were notified that evening, and on 11 December, several birders from across the state saw the gull and confirmed the identification. I last observed the bird on 12 December.

This is the fourth and most westerly record of a Black-legged Kittiwake in Tennessee. Previous occurrences were on 21-22 August 1971 at Percy Priest Lake (Bierly, Bird Finding in Tennessee, 1980), 7-13 December 1971 near Chickamauga Dam, Hamilton County (Williams, *Migrant* 43:27, 1972), and on 10 October 1981 at Cookeville, Putnam County (Bierly, *Migrant* 53:16, 1982).—DONALD W. BLUNK, Rt. 2, Box 284-C, Dover, TN 37058. Accepted 12 July 1984.

A YELLOW RAIL IN PICKETT COUNTY, TENNESSEE — My husband David and I were driving home at 1615 on 8 December 1983 when we saw a small rail-like bird running alongside the road about 3 m in front of our car. We saw this bird at a creek crossing about 0.2 km south of our home in the Lovelady community in northwest Pickett County, Tennessee. We stopped the car immediately and watched the bird cross the paved road in front of us and then start pecking fine gravel like a small chicken. It seemed unafraid of the car so we were able to get a very close look using 8 power binoculars in fair light. We made verbal notes of the following identifying marks of the bird: black and yellowish horizontal stripes on the back with lighter perpendicular stripes on the sides, buff on the breast and beneath the tail, lighter buff on the throat, dark on top of the head with a darkish spot on the cheek. The bill was short and greenish-yellow, and the legs were of the same color. As we moved slightly, the bird ran into a grassy shallow ditch and disappeared. As we drove slowly on, I looked back and saw it creep back out to the same spot and start pecking gravel again. We did not see the bird fly. After we arrived home, I walked back to the creek crossing but did not see the bird. David searched the area the next morning but failed to see the bird.

In comparing our notes on the bird with the descriptions in Peterson's Field Guide, Robbins *et al.* Birds of North America, and the Audubon Society Field Guide, we knew we had seen a Yellow Rail (*Coturnicops noveboracensis*). It was noticeably smaller and showed none of the tail-flicking behavior described for an immature Sora (*Porzana carolina*). Although this was the first time either David or I had observed a live Yellow Rail, we had both previously examined a Yellow Rail specimen. This is apparently the first December record of a Yellow Rail in Tennessee, and there are no published November records.—ROBBIE C. HASSLER, Rt. 1, Box 164-A, Byrdstown, TN 38549.

CLIFF SWALLOWS STILL NESTING ON SWALLOW BLUFF, DECATUR COUNTY, TENNESSEE — One of the earliest reports of nesting Cliff

Swallows (*Hirundo pyrrhonota*) in Tennessee was at Swallow Bluff, along the Tennessee River in Decatur County (Ganier and Weakley 1936, Clebsch 1941). At least 90 nests were found under an overhanging cliff at this site. A note in *The Migrant* in 1943 (Anon. 1943) stated that the overhanging cliff at Swallow Bluff was dynamited into the river in preparation for the impoundment of Kentucky Reservoir. Weakley (1945) noted the absence of Cliff Swallow nesting habitat at Swallow Bluff and observed that the birds had moved elsewhere. During the 1978 Tennessee Ornithological Society foray in Decatur County (Nicholson 1980), Kenneth H. Dubke and I tried to inspect Swallow Bluff for nests, and we did not observe either nests nor suitable nesting habitat. We did not have a boat, however, and were unable to inspect all the bluffs in the area.

On 16 November 1983, Judith B. Powers and I searched by boat all the bluffs along the Tennessee River from Saltillo (River Mile 172.3) downstream to Shannon Landing (RM 161). Under an overhanging bluff adjacent to Swallow Bluff Cave (RM 169.3), we observed about 120 intact Cliff Swallow nests, which appeared to have been used during the 1983 nesting season. Remains of many nests from previous years were evident. Both upstream from this high bluff and downstream near Swallow Bluff Landing (RM 168.4) are low bluffs, no more than 3 m above the lake level, which show evidence of having been dynamited in the past.

Under a high overhang at RM 168.8, we observed many mud rings, evidence of the former presence of a large Cliff Swallow colony. We observed no evidence of recent swallow nesting at this site. Neither this site, nor the active site adjacent to Swallow Bluff Cave, appear to be the site illustrated by Ganier and Weakley (1936). We found no evidence of Cliff Swallow nesting, nor suitable nest habitat, along the riverbanks downstream as far as RM 161. There are several colonies under bridges in this area (Nicholson 1980, 1981, Alsop 1981). We observed no suitable nesting habitat on Swallow Bluff Island - the few "bluffs" present on the island are all eroded dirt banks, unsuitable for Cliff Swallow use. Alsop's (1981) reference to Cliff Swallow nests on Swallow Bluff Island is probably incorrect.

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- GANIER, A.F., AND S.A. WEAKLEY. 1936. Nesting of the Cliff Swallow in Tennessee. *Migrant* 7:29-30, 41.
- NICHOLSON, C.P. 1980. Birds of Decatur County. *Migrant* 51:1-9.
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CHARLES P. NICHOLSON, Div. of Land and Economic Resources, Tennessee Valley Authority, Norris, TN 37828. Accepted 1 August 1984.

THE SEASON



FALL MIGRATION: 1 AUGUST - 30 NOVEMBER 1983

Drought conditions extended from the summer into October in western and middle Tennessee, but abated somewhat in late September in East Tennessee. Temperatures were above average much of the period, and several record late dates were set. Conversely, some record early dates were also established.

There were several reports of rare or accidental species. The highlight was a Rufous Hummingbird at Murfreesboro, the first verified occurrence of the species in the state. Adding to this excitement was an as yet unidentified *Selasphorus* hummingbird seen and photographed at Memphis. An American Swallow-tailed Kite and a Sharp-tailed Sparrow were observed at Memphis, and an Eared Grebe was found at Kingston Steam Plant on the record early date of 26 August. Two Northern Saw-whet Owls were found in middle Tennessee. Wood Storks were observed at Knoxville and in the vicinity of Cross Creeks National Wildlife Refuge. This species formerly occurred in Tennessee with some regularity, but there have been few reports in recent years, and the United States population is presently proposed for listing as an endangered species. Many other interesting observations are to be found in the following reports. — CHARLES P. NICHOLSON.

WESTERN COASTAL PLAIN REGION — The Ensley Sewage Lagoons near Memphis attracted a large number of shorebirds again this season. New early arrival dates were recorded for the Marsh Wren and LeConte's Sparrow. The region's most unusual visitor was probably a Sharp-tailed Sparrow near Memphis.

Grebe-Falcon: Horned Grebe: 30 Oct. (3) SFP, Mississippi River (JGB, JRW). Double-crested Cormorant: 30 Oct (1130) to 26 Nov (1500) roosting each evening, MUL (BBC, LCC). Oldsquaw: 20 Nov (1) MEM, Mississippi River (WAJ, JRW), first Shelby Co. record. Osprey: 24 Sep (1) SFP (DAD, JRW); 9 Oct (1) Hopefield TN/AR (DRB, BBC). AMERICAN SWALLOW-TAILED KITE: 19 Sep (1) MEM (JRW). Mississippi Kite: 13-14 Aug (2) Sugar Creek, RIL (JBG); 21 Aug (1), 4 Sep (1) PON (CHB), first Decatur Co. records and first records along Tenn. River; 11 Sep (1) Golddust, Lauderdale Co. (HAS). Northern Harrier: 26 Sep (1) MEM (JRW). Sharp-shinned Hawk: 27 Sep (1) Fisherville, Shelby Co. (LCC). Cooper's Hawk: 23 Oct (1) Somerville (JDV, BS). PEREGRINE FALCON: 30 Oct (1) MUL (BBC, LCC).

Rail-Tern: Virginia Rail: 9 Oct (1) ESL (JRW); 2 Nov (1) Raleigh, Shelby Co. (JLS). Common Moorhen: 24 Sep (1) MEM (BBC); 5 Oct (1) MEM (JRW). Piping Plover: 10 Aug (1) Britton Ford, Henry Co. (AHH, NRH, RVM, DM, TJW). WILLET: 8 Aug (3) Pace Point, Henry Co. (CGD). Sanderling: 3 Sep (5) RIL (JBG). Western Sandpiper: 23 Oct (1), 29 Oct (1), 6 Nov (4) ESL (JRW). Least Sandpiper: 3 Sep (30) RIL (JBG); 23 Oct (2350) ESL (DAD, JRW); 29 Oct (1480) ESL (JRW); 6 Nov (1350) ESL (JRW). Dunlin: 8 Oct (1), 9 Oct (2) ESL

(JRW); 19 Oct (25) BSU (JD); 23 Oct (11) ESL (DAD, SS, JRW); 29 Oct (7), 6 Nov (11) ESL (JRW). Stilt Sandpiper: 8 Oct (11) ESL (JRW); 9 Oct (14) ESL (JRW, MGW); 16 Oct (5) ESL (JRW); 23 Oct (4) ESL (DAD, JRW); 29 Oct (6), 6 Nov (6) ESL (JRW). Buff-breasted Sandpiper: 4 Sep (1) BSU (CD, RD). Wilson's Phalarope: 13 Aug (1) ESL (BBC, LCC). Least Tern: 3 Sep (30) Sugar Creek, RIL (JBG).

Woodpecker-Siskin: Red-headed Woodpecker: 30 Oct (341) SFP (MTOS); 21 Sep (15), 22 Nov (108) Hatchie Nat. Wildl. Ref., Haywood Co. (BBC, LCC, WLW). Tree Swallow: 30 Oct (3000), 6 Nov (1200) MUL (BBC, LCC), migration was late and sparse. Red-breasted Nuthatch: 25 Sep (1) PON (CHB). Marsh Wren: 25 Sep (1) ESL (HBD, JLL, DM). Gray Catbird: 28 Nov (1) MEM (BBC). Solitary Vireo: 30 Oct (1) SFP (LCC). Philadelphia Vireo: 24 Sep (1) LaGrange, Fayette Co. (JRW); 24 Sep (1) PON (CHB). Golden-winged Warbler: 24 Sep (1) PON (CHB). Vesper Sparrow: 30 Oct (4) MUL (BBC, LCC); 20 Nov (3) MUL (JRW). LeConte's Sparrow: 22 Oct (1) MEM (SKB); 27 Oct (1) Shelby Co. Penal Farm (JRW). SHARP-TAILED SPARROW: 22 Sep (1) north of SFP (RTC). House Finch: 12 - 30 Nov (2 males) MEM (EC, JRW). Pine Siskin: 16 Nov (35) Herb Parson Lake, Fayette Co. (HBD, SSL).

Locations: BSU—Big Sandy Unit, Tenn. Nat. Wildl. Ref., Henry Co.; ESL—Ensley Sewage Lagoons, Shelby Co.; MEM—Memphis, Shelby Co.; MUL—Mud Lake, Shelby Co.; PON—Ponderosa, Decatur Co.; RIL—Richardson Landing, Tipton Co.; SFP—Shelby Forest State Park, Shelby Co.

MARTHA G. WALDRON, 1626 Yorkshire Dr., Memphis, TN 38117.

CENTRAL PLATEAU AND BASIN REGION — Although fall in the region was abnormally dry from August until early October, it was also warm, and the warm weather produced a panoply of late-lingering species, a number of record late dates, and several notable late nesting records. In addition, vagrants and rare species staged a series of appearances in middle Tennessee with one species recorded in the state for the first time.

Among the late lingerers, 3 species of swallows were present into November, with one of them setting a record late date for the Nashville area and another coming within a day of doing so. Tree, Northern Rough-winged, and Barn Swallows joined many other summer residents and fall transients in a prolonged departure from the region. Yellow-billed Cuckoos stayed into mid-November, and Common Nighthawks into late November, while several parulids remained through the first week of that month. Only one record early fall date - for Ruddy Duck - was established, but 6 species set record late dates: Piping Plover, Stilt Sandpiper, Olive-sided Flycatcher, Tree Swallow, Kentucky Warbler, and Rose-breasted Grosbeak. Although some intriguing late nesting evidence was recorded for Scissor-tailed Flycatcher and Bewick's Wren, the sighting of a juvenile Bald Eagle in August at Cross Creeks National Wildlife Refuge was undoubtedly the most significant breeding record of the season. This bird's presence at that time was strong circumstantial evidence that the species had nested nearby, the first successful nesting of Bald Eagles in the state since 1961. The discovery of a nest nearby, later in the winter, confirmed this breeding record.

Rarities highlighted much of the season with the Rufous Hummingbird discovered by Lou A. Erwin in Murfreesboro being the most notable sighting, since it established a first state record. Other seldom seen birds sighted during the autumn

were Red-throated Loon at Wood Reservoir, Wood Stork at Cross Creeks National Wildlife Refuge and vicinity, Black Scoter on Old Hickory Lake, Northern Saw-whet Owl in Nashville and Montgomery County, and Western Kingbird at Percy Priest Lake.

Sincerest thanks go to the more than 60 field observers mentioned below for generous sharing of records and for spending time afield to make them possible.

Loon-Stork: RED-THROATED LOON: 13 Nov (1) WDR (DRJ, CGD), about 4th regional record with nearly all from same locale. Common Loon: 7 Nov (20) OHL, SUC (CGD); 13 Nov (75) WDR (DRJ, CGD); 20 Nov (43) PPL, DVC (F. Joseph McLaughlin, John P. McLaughlin); reported seasonal highs for these locations. Horned Grebe: 18 Nov (25) WDR (KHD, LHD), largest reported concentration. Double-crested Cormorant: present in normal numbers; no concentrations. White Pelican: 13 Aug (1 imm) Ashland City, CHC (CGD, RJM), about 3rd NA record, perhaps a result of the mild cold front which passed through the region 12 Aug. American Bittern: 28 Aug (1) Hillsboro Pond, CFC (MLM); 29 Sep (1) MUR (ALH, REH, WJH); less common than normal. Great Blue Heron: 27 Aug (52) CCNWR (MGW *et al.*); 2 Sep (22) LWP (DTC, JPC); seasonal high reported for these locales. Great Egret: 23 Oct (4) CCNWR (DWB); 26 Oct (26, flying over) RDL (JCM), high number and late; 19 Nov to EOP (2) DRU (JRS *et al.*), very late. Snowy Egret: 28 Aug (1) DRU (MGW *et al.*), uncommon fall visitor. Little Blue Heron: 27 Aug (5) CCNWR (MGW *et al.*); 28 Aug (13) DRU (MGW *et al.*); 28 Aug - 13 Sep (1 imm) LWP (DTC, JPC); few reports. Cattle Egret: 23 Oct (3), 29 Oct (1) CCNWR (DWB, CGD), late. Black-crowned Night-Heron: 14 Aug (9) GSP (DTC, JPC); 1-2 Oct (38) NA fall count (NTOS), about normal numbers. Yellow-crowned Night-Heron: 14 Aug (1) GSP (DTC, JPD); 27 Aug (7) CCNWR (MGW *et al.*); last reports for season. WOOD STORK: 26 Jul - 1 Sep (1-3) CCNWR (Fabian Romero, E.D. Barnes *et al.*); 10, 14, 20 Sep (1, photographed) Dotsonville, Montgomery Co. (Margaret Buckner); last regional record (1975) also in Stewart Co. (*Migrant* 46:79, 1975), and prior to that one in 1955 in Tullahoma (*Migrant* 26:43, 1955).

Pintail-Falcon: Northern Pintail: 28 Aug (1) CCNWR (JRS *et al.*), first report of season. Blue-winged Teal: 2 Aug (2) MEC (DFV), first of season; 7 Sep (400+) GSP and LWP (DTC, JPC), high numbers; 25 Oct (6) LWP (DTC, JPC), last report. Redhead: 13 Nov (300) WDR (DRJ, CGD), high number. Canvasback: 18 Nov (2) WDR (KHD, LHD), only report. Greater Scaup: 30 Oct (1) OHL, DVC (NTOS); 13 Nov (3) PPL, DVC (NTOS); only reports. BLACK SCOTER: 6 Nov (1) OHL, SUC (Ruth Griffin *et al.*), 3rd NA and regional record, about 9th for state. Ruddy Duck: 14 Oct (4) RDL (Lillian V. Hunt), new NA early fall date. Turkey Vulture: 12 Nov (200+) LHL (DJS), probably migratory movement, though possible a winter roost nearby; large active roosts near Gallatin (DTC, JPC), and Columbia (KGA), composed mainly of Black Vultures, though a few TV mixed in. Osprey: 4 Nov (1) GSP (DTC, JPC), last report. MISSISSIPPI KITE: 26 Aug - 13 Oct (1 subadult) CCNWR (Chip Grafe, DWB *et al.*), first Stewart Co. record. BALD EAGLE: 15 Aug (1 juv, 2 ad) CCNWR (*vide* Vicki C. Grafe), strong evidence suggests this juv fledged from a nearby nest; Carrell L. Ryan observed juv and believed that it had fledged on or one day before 15 Aug (*vide* Robert Hatcher); 14-23 Sep (2 ad) LHL (*vide* DJS); 5-7 Nov (1 imm) Saunder's Ferry Park, OHL, SUC (CGD *et al.*), bird carried a green wing tag (#5) on right wing; 18 Nov (1 imm) WDR (KHD, LHD); 18 Nov (1 ad) Williamsport, Maury Co. (KGA). Northern Harrier: 28 Aug (1) CCNWR (LFK *et al.*), first of season; 15 Oct (1) Hillsboro, CFC (ER); 25 Oct (1 male) GSP (DTC, JPC); few

reports. Sharp-shinned Hawk: 1-2 Oct (8) NA fall count (NTOS); 25 Sep - 28 Oct (1-2) BAH (RWS); 24 Nov (1) LEF (SJS, BHS); few reports. Cooper's Hawk: 18 Sep (1) LEF (SJS); 22 Sep (1) MUR (*fide* ALH); 1-2 Oct (1) NA fall count (NTOS); 4, 13 Nov (1) GSP (DTC, JPC); few reports. Broad-winged Hawk: 1-2 Oct (1) NA fall count - 1 at LEF (NTOS, SJS); no migrating flocks reported. Rough-legged Hawk: 20 Nov (1) northern Maury Co. (Barbara Finney). Golden Eagle: 19 Nov (1) DRU (JRS *et al.*); 20 Nov (1) CCNWR (DWB); 20 Nov (5) near Woodbury, Cannon Co. (RCH, David Hassler); notable concentration of sightings within same weekend. Merlin: 1 Oct (1) Shelby Bottoms, DVC (MPS, Barbara Harris). Peregrine Falcon: 2 Oct (1) Craggie Hope, CHC (*fide* CGD); 22 Oct (1) LHL (CGD *et al.*); 23 Oct (1) Ashland City, CHC (RJM).

Rail-Tern: Virginia Rail: 24 Sep (1), 1 Oct (2) Pardue's Pond, DIC (JRS *et al.*). Sora: 28 Aug (1) DRU (LFK *et al.*), first of season; 11 Oct (1) MUR (TJW). Common Moorhen: 11 Sep (1 imm, found injured) MUR (*fide* ALH); 20 Oct (1 imm, road casualty) Columbia (William N. Jernigan). Sandhill Crane: 26 Oct (82), 29 Oct (several heard), 2 Nov (several heard), and 22 Nov (several heard) Byrdstown, PIC (RCH); 6 Nov (3) BAH (RWS); 19 Nov - EOP (1) DRU (JRS *et al.*), last sighting far to west of usual migration corridor. Black-bellied Plover: 19 Nov (2) DRU (JRS *et al.*). Lesser Golden Plover: 2 Oct (1) MEC (JRS); 19 Nov (1) DRU (JRS *et al.*), stragglers into Nov are occasional. Semipalmated Plover: 30 Jul (2) GSP (DTC, JPC), first of season; 20 Oct (1) LWP (DTC, JPC), last of season. PIPING PLOVER: 12-16 Aug (1) GSP (LFK *et al.*); 10-15 Oct (1) GSP (DTC, JPC), new NA late fall date; species seen regularly in recent years. Killdeer: 6 Aug (110), 22 Aug (46) MEC (DFV, HEP); 30 Aug (52) GSP (DTC, JPC); seasonal highs for these sites. Greater Yellowlegs: 17 Jul (1) Bear Creek WMA, SWC (DWB), first of season; 24 Sep (1) LHL (DJS, Lloyd and Helen Clayton); 25 Sep (15) LWP (DTC, JPC), seasonal high for region; 12 Nov (1) LWP (DTC, JPC), last of season. Lesser Yellowlegs: 24 Jul (7) GSP (DTC, JPC), seasonal high; 18 Nov (1) MOP (ARL, OBL), last of season. Solitary Sandpiper: 19 Jul (1) MEC (DFV), first of season. Upland Sandpiper: 23 Jul (3) Ravenwood Golf Course, DVC (CGD); 31 Jul - 3 Aug (up to 5) Metro Airport, DVC (*fide* SJS); only reports. Sanderling: 8 Aug (1) GRP (DTC, JPC), first of season; 5 Sep (10) CCNWR (DWB), seasonal high; 2 Oct (1) MEC (JRS), last of season. Semipalmated Sandpiper: 24 Jul (9) GSP (DTC, JPC), first of season; 7 Sep (110) LWP (DTC, JPC), seasonal high; 10 Oct (1) LWP (DTC, JPC), last of season. Western Sandpiper: 10 Aug (1) CCNWR (TJW, RVM *et al.*); 13 Aug (5) GSP (DTC, JPC); 4 Sep (4) LWP (DTC, JPC); only reports. Least Sandpiper: 24 Jul (4) GSP (DTC, JPC), first of season; 13 Sep (71) GSP (DTC, JPC), seasonal high; 24 Sep (2) LHL (DJS *et al.*); 12 Nov (34) LWP (DTC, JPC); 18 Nov (5) MOP (ARL, OBL); 24 Nov (12) MEC (HEP), last of season. Baird's Sandpiper: 10 Aug (1) CCNWR (TJW, RVM *et al.*); 12 Aug (1) GSP (DTC, JPC); 28 Aug (1) CCNWR (LFK *et al.*); 10 Oct (1) GRP (DTC, JPC); 22 Oct (1) LHL (CGD *et al.*), late; movement of ad and imm respectively, probably denoted by Aug and Oct records. Pectoral Sandpiper: 17 Jul (1) Bear Creek WMA, SWC (DWB), first of season; 13 Sep (15) LWP (DTC, JPC), seasonal high, but very low; 18 Nov (2) MOP (ARL, OBL), last of season. Dunlin: 17 Aug (3) MEC (HEP), see Addenda; 20 Oct (10) LWP (DTC, JPC); only reports of this late-migrating shorebird. Stilt Sandpiper: 31 Jul (2) PPL, RUC (RDP), first of season; 28 Aug (13) DRU (MGW *et al.*), seasonal high; 15 Oct (2) 1 mi E of Gallatin (DTC, JPC), new NA late fall date. Buff-breasted Sandpiper: 28 Aug (1), 29 Aug (3), 30 Aug (1) GSP (DTC, JPC); 28 Aug (1), 5 Sep (2) CCNWR (DWB *et al.*); 28 Aug (1) DRU (MGW *et al.*); 30 Aug (1) MEC

(DFV), first NA record in 5 years; note concentrated period of migration. Downy Woodpecker sp.: 13 Aug (1) DRU (SJS, BHS); 7 Sep (1) LWP (DTC, JPC); 15 Oct (1) 1 mi E of Gallatin (DTC, JPC); only reports. Common Snipe: 29 Aug (1) GSP (DTC, JPC), first of season. Wilson's Phalarope: 20-21 Sep (1) MEC (JRS, RJM), first in NA in 3 years. Laughing Gull: 10 Nov (1) Hamilton Creek, PPL, DVC (CGD), about 9th NA record, latest fall. Ring-billed Gull: 13 Aug (3) Seven Points, PPL, DVC (MLM), possible summering birds or very early migrants. Caspian Tern: 14 Aug (4) to 7 Sep (2) GSP (DTC, JPC), only reports.

Cuckoo-Wren: Black-billed Cuckoo: 17 Sep (1) Gallatin (DTC, JPC), only report. Yellow-billed Cuckoo: 1 Nov (1) Clarksville (Joe D. Allen); 5 Nov (1) Nashville (JCM); 18 Nov (1) WDR (KHD, LHD); probable results of warm fall. Common Barn-Owl: 8-9 Oct (3) WLC fall count (John Sellars Chapter, TOS). NORTHERN SAW-WHET OWL: 25 Oct (1, injured in window collision) Bell's Bend, DVC (*fide* DFV, Kevin Schutt); bird taken to Cumberland Bird Rehab. Center where died, specimen in collection of Cumberland Museum; about 4th NA record; 13 Nov (1, casualty) E of Palmyra, MTC (David Snyder), specimen in Vertebrate Coll., Biology Dept., Austin Peay St. Univ. Common Nighthawk: to EOP (1+) Green Hills, DVC (JRS, Peter L. Lefferts), either late migrant or bird attempting to winter. Whip-poor-will: 19 Sep (1 calling) LEF (SJS), last report. Ruby-throated Hummingbird: 20 Oct (1) RDL (JCM), last report, but a hummingbird sp. reported from Manchester on 26 Nov (Opal Correll). RUFIOUS HUMMINGBIRD: 6-8 Sep (1 imm male, photographed) MUR (Lou A. Erwin *et al.*), first state record, details should be published. Red-headed Woodpecker: 17 Sep (3 migrating S) LEF (SJS), beginnings of large region-wide influx; 28 Oct (4) Byrdstown, PIC (RCH); nearby states also had large numbers (see *American Birds* 38:213, 1984). Olive-sided Flycatcher: 3 Oct (1) Poole Knobs, PPL, RUC (DTC, JPC), new NA late fall date. Least Flycatcher: 1-2 Oct (1 heard) Shelby Park, DVC (MPS). Yellow-bellied Flycatcher: 23, 24, 26 Sep (3 banded) LSC (GRM), seldom recorded in fall except at banding stations and as tower casualties. Acadian Flycatcher: 1 Oct (1 singing) Ashland City Marsh, CHC (CGD), late; most Oct birds are banding encounters or tower casualties. WESTERN KINGBIRD: 1-5 Oct (1-2) PPL, RUC (RBP, BHS, Ray Fleisher, Thomas McCall), about 5th NA and 7th regional record. SCISSOR-TAILED FLYCATCHER: 11 Aug -7 Sep (2 juv) MUR (*fide* ALH, DTC, JPC), nesting for at least 2nd time since 1978; 18 Oct (1 ad) MUR (RVM), last sighting. Some observers commented that these juv were possibly hybrids, since only 1 ad Scissor-tail was ever observed at a time; hybridization of Scissor-tailed Flycatcher with Western Kingbird has been suspected (*Western Tanager* 46:4, 1979), but no evidence of hybridization in Murfreesboro was proved, though Eastern Kingbirds were observed in proximity to both the ad and juv Scissor-tails. Tree Swallow: 13 Nov (4) PPL (NTOS), new NA late fall date; 18 Nov (3) Todd's Lake, RUC (TJW); 25 Nov (1) CCNWR (CGD); more beneficiaries of warm fall. Northern Rough-winged Swallow: 25 Nov (1) CCNWR (CGD), very late; again, probably due to warm fall. Barn Swallow: 23 Oct (150) Pardue's Pond, DIC (JRS, CGD), very large number for only one day earlier than NA late date; 18 Nov (2) WDR (KHD, LHD); more lingerers. Red-breasted Nuthatch: 23 Sep (1) Love Circle, DVC (JCA); 29 Sep (1) BAH (RWS); few reports; not an invasion year. Bewick's Wren: 24 Sep (4 fledged), 28 Nov (2) MUR (ALH, REH, WJH, TJW); late breeding and probable wintering indicated. Sedge Wren: 16 Oct (1) BAH (RWS); 19 Oct (1) Old Fort Park, RUC (TJW); 23 Oct (1) Pardue's Pond, DIC (CGD, JRS); late, concentrated movement, again perhaps due to warm weather. Marsh Wren: 24 Sep (1) MUR (RVM, ALH); 29 Oct (1) CCNWR (DWB).

Kinglet-Warbler: Golden-crowned Kinglet: 4 Oct (1) Nashville (JCM), first report of season. Swainson's Thrush: 23 Sep ("large numbers" in "peak" migration) BAH (RWS); 23 Oct (1) Nashville (JCM), last report. Gray Catbird: 5 Nov (1) Woods Resv., FKC (Carroll Barr); 14 Nov (1) Love Circle, DVC (*vide* JCA), late. Cedar Waxwing: 2 Nov (500) S WMC (MLM), largest flock reported. Philadelphia Vireo: 11 Sep (1) LEF (BHS), ties NA early fall date. Golden-winged Warbler: 5 Oct (1) RDL (*vide* Ann Houk), last report. Tennessee Warbler: 5 Nov (1) RDL (JCM), last report. Orange-crowned Warbler: 19 Oct (1), 28 Oct (2) BAH (RWS), only reports. Nashville Warbler: 4 Nov (1) Todd's Lake, RUC (TJW), last report, late. Cape May Warbler: 16 Oct (1) BAH (RWS); 19 Oct (2) Nashville (*vide* SJS); only reports of this rare transient. Black-throated Blue Warbler: 8 Oct (1 male) MUR (TJW), only report. Black-throated Green Warbler: 2 Nov (1) RDL (JCM), last report. Blackburnian Warbler: 25 Oct (1) BAH (RWS), last report. Yellow-throated Warbler: 23 Oct (1) Pardue's Pond, DIC (CGD, JRS), last report; getting close to late date. Palm Warbler: 17, 23 Nov (1) Hillsboro, CFC (ER), last report, but winters occasionally. Black-and-white Warbler: 30 Oct (1) RDL (JCA), last report, late. Prothonotary Warbler: 3 Oct (1) RDL (JCM), last report, late. Northern Waterthrush: 23 Oct (1) RDL (*vide* SJS), late. Kentucky Warbler: 29 Oct (1) Nashville (JCM), new NA late fall date. Mourning Warbler: 8 Oct (1) MUR (TJW), only report.

Grosbeak-Grosbeak: Rose-breasted Grosbeak: 12 Nov (1) Love Circle, DVC (JCA), new NA late fall date, but species occasionally winters. Dickcissel: 15 Aug (1) Temple Rd. and Old Natchez Trace (MLM), only report. Lincoln's Sparrow: 30 Sep (1 banded) LSC (GRM), only report. Lapland Longspur: 22 Nov (1) Five Points, LWC (Morris D. Williams), only report. Purple Finch: 11 Oct (1) RDL (JCM), first of season; 15 Oct (1) BAH (RWS). House Finch: 30 Oct (1) MUR (ALH), first of season; 6 Nov (4) Hillsboro, CFC (ER); by EOP (100+) Gallatin (DTC, JPC). Pine Siskin: 26 Oct (1) BAH (RWS), first of season. Evening Grosbeak: 13 Nov (several) BAH (RWS), first of season; 19 Nov (3) LWC (SJS, Rick Knight *et al.*); 22 Nov (7) Smyrna, RUC (*vide* ALH); 25 Nov (25) Dover, SWC (DWB); beginnings of invasion year.

Addenda: Two unpublished reports of early Dunlins from previous fall seasons were received and deserve mention here: 10 Sep 72 (2) GSP (DTC, JPC); 1 Aug 76 (1) GRP (DTC, JPC, William Jones). The latter report established a new NA early fall date.

Locations (and other abbreviations): ad—adult; BAH—Barnes Hollow, Putnam Co.; CCNWR—Cross Creeks Nat. Wildl. Ref., Stewart Co.; CFC—Coffee Co.; CHC—Cheatham Co.; DIC—Dickson Co.; DRU—Duck River Unit, Tennessee Nat. Wildl. Ref., Humphreys Co.; DVC—Davidson Co.; EOP—end of period; GRP—Green Pond, Sumner Co.; GSP—Gallatin Steam Plant, Sumner Co.; imm—immature; juv—juvenile; LHL—Laurel Hill Lake, Lawrence Co.; LEF—Leiper's Fork, Williamson Co.; LSC—Lewis Co.; LWC—Lawrence Co.; LWP—Lewis Pond, Sumner Co.; MEC—Metro Center, Davidson Co.; MOP—Monsanto Ponds, Maury Co.; MUR—Murfreesboro, Rutherford Co.; NA—Nashville Area (includes all of Davidson Co. and parts of 7 other counties); OHL—Old Hickory Lake; PIC—Pickett Co.; PPL—Percy Priest Lake; RDL—Radnor Lake, Davidson Co.; RUC—Rutherford Co.; SUC—Sumner Co.; SWC—Stewart Co.; TOS—Tennessee Ornithological Society; WLC—Wilson Co.; WMA—Wildlife Mgt. Area; WMC—Williamson Co.; WDR—Woods Reservoir, Franklin Co.

STEPHEN J. STEDMAN, Rt. 6, Pinewood Rd., Franklin, TN 37064.

EASTERN RIDGE AND VALLEY REGION — At Knoxville, August and September were much drier than normal. The drought broke there in late September, earlier than in many surrounding areas.

As usual rainfall has minimum effect on the shorebird migration in our region. Rather the most important factor is how TVA manipulates the water levels in their reservoirs. TVA again maintained Chickamauga Lake at a high level and reduced its summer fluctuation from what was considered normal in the past. Consequently few observations originated from this area until the winter drawdown, after the main movement had passed through. Tony Koella reported his usual species array at the Rankin Bottoms section of Douglas Lake. Linda Fowler monitored the Eagle Bend Fish Hatchery and, along with the compilers, the Kingston Steam Plant. On the early date of 26 August a good migratory movement of water birds was noted at the steam plant: Pied-billed Grebe (2), Green-winged Teal (40), Am. Black Duck (2), N. Pintail (2), Blue-winged Teal (40), N. Shoveler (5) and Gadwall (15). An Eared Grebe was also identified and remained at the steam plant until at least 2 October.

Glen Eller reported from the Elizabethton-Johnson City area that gull observations were down, but tern sightings were up. They reported several late swallow sightings along with some good warbler movements. Special birds of interest for their area included Ruddy Ducks, Sandhill Crane (2nd record), Least Tern (2nd record) and a Caspian Tern noted irregularly. Rick Knight continued with his banding operation at Austin Springs. Among the interesting birds he banded was an Orange-crowned Warbler and seven Lincoln's Sparrows.

Chuck Nicholson again operated his banding station at Norris on 34 days from 13 August until 6 November. He banded 949 birds in 792 net hours for 120 birds per 100 net hours. This is about 20% below the average for the previous 3 years, but may be lower because he missed a big chunk of late September, a peak period. He banded a total of 70 species.

On 3 October the compilers spotted a nice late movement of swallows at the Candies Creek area in the Hiwassee River Area. In the group were Tree (15), N. Rough-winged (25), Cliff (1) and Barn (20).

Loon-Wood Stork: Red-throated Loon: 6 Nov (1) CHL (KHD, LHD, RCS). Common Loon: 16 Sep (1) MHL (RDH), early; 25 Oct (3) BOL (RLK); 6-30 Nov (4-36) CHL (KHD, LHD, RCS). Pied-billed Grebe: 26 Aug (2) KSP (KHD, LHD, RCS); max 29 Nov (62) CHL (KHD, LHD). Horned Grebe: 16 Nov (2) BOL (RLK); 8 Nov (2) CHL (KHD, LHD). EARED GREBE: 26 Aug - 2 Oct (1) KSP (KHD, LHD, RCS, JAK *et al.*), record early date for state. Double-crested Cormorant: 4 Sep FLL (PSP); 2 Sep (1) CHL (RCS); 19 Oct (1) FLL (JAK); 11-19 Oct (1-5) AUS (RLK); 5-12 Nov (1-3) HRA (KHD, LHD); 8-30 Nov (3-6 occasional) CHL (KHD, LHD). Great Blue Heron: regular, max 22 Oct (381) DOL (JAK); regular, max 29 Nov (66) HRA (KHD, LHD). Great Egret: 1 Aug (1) NRL (JCH); 2 Aug - 30 Oct (2-12) DOL (JAK); 16-17 Aug (2-3) EBF (LJF); 17 Oct - 2 Nov (1) AUS (RLK *et al.*); 1-18 sporadic HRA (KHD, LHD *et al.*). Snowy Egret: 11 Sep (1) HRA (LHD, RCS). Little Blue Heron: 1 Aug (1) AUS (RLK); 1 Aug - 4 Sep (1-12) HRA (KHD, LHD); 2 Aug - 2 Sep (2-7) EBF (LJF); 3-28 Aug (1-9) DOL (JAK). Cattle Egret: 1 Aug - 18 Sep (1 sporadic) HRA (KHD, LHD); 23 Aug (12) HRA (KHD, LHD). Green-backed Heron: 2 Aug - 26 Sep (1-14) EBF (LJF); regular, max 23 Aug (27) HRA (KHD, LHD); last report 14 Oct (1) AUS (SG, MD). Black-crowned Night-Heron: 13 Oct (1) AUS (RLK). Yellow-

crowned Night-Heron: 23 Aug (1) HRA (KHD, LHD); 3 Sep (1) CHA (RCS). WOOD STORK: 1 immature bird present at Knoxville 10 Sep - 7 Oct (Don Powers, A. Boyd Sharp *et al.*, photographed), third local Knoxville record, details to be published.

Teal-Ruddy Duck: Green-winged Teal: 28 Sep (1) HRA (KHD, LHD); max 29 Nov (450) HRA (KHD, LHD). Am. Black Duck: 26 Aug (2) KSP (KHD, LHD, RCS). N. Pintail: 26 Aug (2) KSP (KHD, LHD, RCS); 10 Oct (1) SAB (KHD, LHD); max 29 Nov (82) HRA (KHD, LHD). Blue-winged Teal: 15 Aug (1) KSP (KHD, LHD); 2 Sep - 11 Oct (1-6) EBF (LJF); 6 Sep - 4 Oct (1+) AUS (RLK); max 4 Oct (325) SAB (KHD, LHD); last 10 Oct (100) HRA (KHD, LHD). N. Shoveler: 26 Aug (15) KSP (KHD, LHD, RCS); 23 Sep (5) KSP (KHD, LHD, RCS); 21 Nov (2) HRA (KHD, LHD). Gadwall: 26 Aug (15) KSP (KHD, LHD, RCS); 17 Oct (3) AUS (HHD, MD). Am. Wigeon: 28 Sep (10) HRA (KHD, LHD); 23 Oct (1) AUS (RLK). Redhead: 6-8 Nov (2) CHL (KHD, LHD). Ring-necked Duck: 29 Oct (2) HRA (KHD, LHD); max 8 Nov (400) CHL (KHD, LHD). Greater Scaup: 18 Oct (4) AUS (SG); 15 Nov (20) CHL (KHD, LHD). Lesser Scaup: 8 Nov (75) CHL (KHD, LHD). Surf Scoter: 28 Nov (1) CHL (RCS). Bufflehead: 20-30 Nov (1-8) CHL (KHD, LHD). Hooded Merganser: 29 Oct (2) HRA (KHD, LHD); max 21 Nov (269) HRA (KHD, LHD). Red-breasted Merganser: 20 Nov (18) NIL (KHD, LHD); 29 Nov (20) CHL (KHD, LHD). Ruddy Duck: 30 Oct (4) AUS (SG, HHD, JW); 12 Nov (4) HRA (KHD, LHD); 29 Nov (1) CHL (KHD, LHD).

Osprey-Phalarope: Osprey: 1-23 Aug (1) AUS (RLK *et al.*). Bald Eagle: 10 Aug (1) NRL (JCH); 29 Aug (1) Tellico L. (LJF); 15-16 Oct (1) SAB (KHD, LHD); 19 Oct (1) AUS (RLK); 12 Nov (1) HRA (KHD, LHD). N. Harrier: 2 Sep (1) KSP (RCS). Merlin: 24 Oct (1) CHA (RCS). Peregrine Falcon: 8 Oct (1) CHA (RCS); 12 Oct (1 imm) SAB (KHD, LHD, RCS); 23 Oct - an imm bird was found injured in Chattanooga and turned over to the local Nature Center (KHD). Virginia Rail: 3 Oct (1) AUS (RLK). Sora: 7 Sep - 14 Oct (1-2) AUS (RLK). American Coot: 22 Aug (1) KSP (KHD, LHD); max 21 Nov (2700) CHL (KHD, LHD). Sandhill Crane: 23-30 Nov (1) AUS (RLK), this was only the second local record for the area; 452 birds reported from the Knoxville area as of 9 Dec, most reports 22-26 Nov (compiled by WKJ); 2-30 Nov (178 birds in 4 groups) HLC, BYC (Brainerd Cooper, Jr., KHD, LHD *et al.*). Black-bellied Plover: 26 Aug - 7 Oct (1-3 scattered) KSP (KHD, LHD, RCS, LJF); 5 Nov (1) HRA (KHD, LHD). Lesser Golden-Plover: 15 Aug, 23 Sep (1) KSP (KHD, LHD); 28 Aug (3) RAB (JAK). Semipalmated Plover: 2 Aug - 1 Oct (2-35) RAB (JAK); 5 Aug - 4 Sep (2-10) KSP (KHD, LHD, LJF). Piping Plover: 15 Aug (1) KSP (KHD, ARH). Killdeer: 2 Aug - 26 Nov (20-300) RAB (JAK). Am. Avocet: 6 Sep (1) KSP (James T. Tanner). Greater Yellowlegs: 2 Aug - 22 Oct (1-65) RAB (JAK); 23 Aug - 12 Nov (1 sporadic) HRA (KHD, LHD); 26 Aug - 7 Oct (1-7 occasional) KSP (KHD, LHD, RCS, PCH, LJF). Lesser Yellowlegs: 2 Aug - 30 Oct (1-85) RAB (JAK); 2-30 Aug (1-9) EBF (LJF); 5 Aug - 7 Oct (7-32) KSP (KHD, LHD, LJF); 29 Aug - 1 Nov (2-8) HRA (KHD, LHD); 2 Sep - 125 noted migrating south over SAB (KHD, LHD). Solitary Sandpiper: 2 Aug - 5 Sep (2-6) RAB (JAK); 1 Oct (1) AUS (RLK, CFW); 2-23 Aug (1-3) EBF (LJF). Spotted Sandpiper: 2 Aug - 5 Sep (1-2) RAB (JAK); 3 Nov (1) AUS (SG, MD). Upland Sandpiper: 20 Sep (1) EBF (LJF). HUDSONIAN GODWIT: 12 Nov (1) HRA (KHD, LHD, JAK *et al.*). Ruddy Turnstone: 2 Aug (1) RAB (JAK); 6 Aug (1) KSP (FDH). Red Knot: 29 Aug (5) KSP (KHD); 18 Sep (1) RAB (JAK). Sanderling: 26 Aug - 2 Oct (1-5) KSP (KHD, LHD, RCS, LJF); 13 Sep - 1 Oct (1-11) RAB (JAK); 3 Oct (1) HRA (KHD, LHD). Semipalmated Sandpiper: 2 Aug - 1 Oct (30-300) RAB (JAK); 5 Aug - 24

Sep (1-150) KSP (KHD, LHD, PCH, RCS); 16-22 Aug (2-6) EBF (LJF). Western Sandpiper: 11 Aug (2) AUS (RLK); 20 Aug - 18 Sep (2-22) RAB (JAK); 22-29 Aug (3-15) KSP (KHD, LHD). Least Sandpiper: 2 Aug -26 Nov (6-450) RAB (JAK); 2 Aug - 2 Sep (1-6) EBF (LJF); 5 Aug - 24 Sep (4-40) KSP (LHD, PCH, RCS, KHD); 29 Aug - 30 Nov (4-20) HRA (KHD, LHD). White-rumped Sandpiper: 5-13 Sep (1-4) RAB (JAK); 9 Sep (1) KSP (RCS). Baird's Sandpiper: 31 Jul (4) RAB (JAK); 9 Sep (1) KSP (RCS). Pectoral Sandpiper: 2 Aug - 24 Sep (10-500) RAB (JAK); 2 Aug - 11 Oct (1-26) EBF (LJF); 5 Aug - 3 Oct (1-40) KSP (KHD, LHD, PCH, RCS); 10 Oct -21 Nov (1-8 occasional) HRA (KHD, LHD). Dunlin: 13 Sep - 26 Nov (46-200) RAB (JAK); 4 Oct - 29 Nov (1-50) HRA (KHD, LHD); 9 Oct - 28 Nov (1-42) SAB (KHD, LHD); 17-23 Oct (2-6) AUS (RLK *et al.*). Stilt Sandpiper: 7 Aug - 3 Oct (4 records only) KSP (KHD, LHD, SJS, BHS, ARH); 20 Aug (1), 18 Sep (45) RAB (JAK); 20 Sep (8) EBF (LJF). Buff-breasted Sandpiper: 28 Aug (6) RAB (JAK). Short-billed Dowitcher: 2-20 Sep (2) EBF (LJF); 18 Sep (10) RAB (JAK). Long-billed Dowitcher: 18 Sep (4), 1 Oct (6) RAB (JAK). Common Snipe: first 21 Sep (1) SAB (KHD, LHD); 4 Oct - 30 Nov (1-89) SAB (KHD, LHD). American Woodcock: 21 Oct (1) GNC (BB). RED-NECKED PHALAROPE: 13 Sep (2) RAB (JAK).

Gulls-Swallows: Bonaparte's Gull: 23 Sep - 16 Nov (1-4) AUS (RLK); 29 Oct (1) SAB (KHD, LHD); 29 Nov (10) CHL (KHD, LHD). Ring-billed Gull: 22 Aug (1) CHL (RCS); 29 Oct (5) SAB (KHD, LHD). Herring Gull: 1 Oct (1) BOL (RLK). Caspian Tern: 29 Aug (4) CHL (RCS); 4 Sep (2) KSP (KHD, LHD); 6 Sep (2) DOL (JAK); 7 Sep - 1 Oct (1 irregular) AUS (RLK); 1 Oct (6) DOL (JAK). Common Tern: 15 Aug (1) KSP (KHD, LHD); 23 Aug (4) HRA (KHD, LHD). Forster's Tern: 18 Sep (1) DOL (JAK). Least Tern: 13 Sep (1) DOL (JAK); 17 Oct (1) AUS (RLK), this is only their second local record. Black Tern: 4 Sep (4) KSP (KHD, LHD); 18 Sep (9) DOL (JAK); 23 Sep (1) KSP (KHD, LHD). Common Nighthawk: 325 were noted migrating over Johnson City 3 Oct with the last observation there 19 Oct (RLK). Chimney Swift: 23 Oct (1) CHA (ABS). Ruby-throated Hummingbird: late record for area, 1 on 30 Oct at Knoxville, and 1 on 30 Oct near Norris Lake (Mrs. Otey Cottrell, *vide* J.B. Owen). Red-headed Woodpecker: pair regular thru 15 Sep at Jonesborough (RLK); at least 10 birds reported from KNX area (CPN *et al.*). Eastern Wood-Pewee: 8 Nov (1) CHL (FDH, KHD, LHD), very late. Tree Swallow: 3 Oct (15) HRA (KHD, LHD); 6 Nov (12) GNC (JAK); 11 Nov (6) NIL (RCS); 13 Nov (3) SAB (LHD). Northern Rough-winged Swallow: 3 Oct (25) HRA (KHD, LHD). Cliff Swallow: 3 Oct (1) HRA (KHD, LHD). Barn Swallow: 3 Oct (20) HRA (KHD, LHD).

Nuthatch-Warblers: Red-breasted Nuthatch: first report 5 Sep (1) NOR (CPN), then good number present to the end of the period; 24 Sep - 16 Oct (1-2 regular) Signal Mountain (KHD); 29 Nov (2) CHL (KHD, LHD). House Wren: 23 Sep (1) HLC (RCS). Sedge Wren: 1-30 Aug (1-3 singing) SAB (KHD, LHD); 19-31 Aug (1 singing) KNX (PDH *et al.*); 11 & 26 Oct (1) AUS (RLK). Marsh Wren: 1 Oct (2) KSP (RCS); 1 Oct (2) & 13 Oct (1) AUS (RLK, CFW); 8 & 22 Oct (1) KNX (PDH *et al.*). Blue-gray Gnatcatcher: 2 Oct (1) NOR (MLD, Nancy Sheppard); 8 Nov (1) CHL (KHD). Gray-cheeked Thrush: local late report 16 Oct (1) NOR (CPN). Hermit Thrush: 10 Oct (1) NOR (CPN), this bird was banded at the same location in 1982. Water Pipit: 17 Oct - 9 Nov (10-60) AUS (RLK *et al.*); 21 Nov (285) HRA (KHD, LHD). Loggerhead Shrike: 12 Aug (5 together, a family group?) SAB (KHD, LHD). Solitary Vireo: 2 Nov (1) CHA (JP). Philadelphia Vireo: 24 Sep (1) CHA (RCS); 10 Oct (1) KNX (JAK). Red-eyed Vireo: record high of 102 banded through 22 Sep at NOR (CPN). Orange-crowned

Warbler: 23 Sep (2) CHA (RCS); 26 Oct (1 banded) AUS (RLK); 30 Oct (3 banded) NOR (CPN). Nashville Warbler: 22 Oct (1) KNX (PDH), late. Cape May Warbler: 24 Oct (1 banded) AUS (RLK). Yellow-rumped Warbler: late arriving KNX, not present in numbers until late Oct (CPN *et al.*). Blackburnian Warbler: 14 Aug (1) KNX (JCH), early there. Yellow-throated Warbler: 5 Oct (1) KNX (JCH), late there. Palm Warbler: 23 Nov (1) AUS (RLK). Prothonotary Warbler: 18 Oct (1) EJC (MD), very late. Northern Waterthrush: 3 Oct (1 banded) AUS (RLK). Mourning Warbler: 23-24 Sep (1) CHA (RCS, PDR). Common Yellowthroat: 22 Oct (2) KNX (PDH, ARH *et al.*), late there. Wilson's Warbler: 13 Sep (1) CHA (RCS); 15 Sep - 6 Oct (3 banded) AUS (RLK *et al.*). Yellow-breasted Chat: 1 banded on 30 Oct, then repeated on 6 Nov at NOR (CPN), this is an all time late record there.

Grosbeak-Grosbeak: Rose-breasted Grosbeak: numbers lower than average KNX; first one on 14 Sep NOR (CPN). Vesper Sparrow: 11 Oct - 18 Nov (1-15 irregular) AUS (RLK); 1-12 Nov (1-3) HRA (KHD, LHD). Grasshopper Sparrow: 1 Oct (1) KNX (JCH), fall records of this species are very infrequent. Fox Sparrow: 1 Nov (1 banded) AUS (RLK). Lincoln's Sparrow: 28 Sep-17 Oct (7 banded) AUS (RLK). Bobolink: 8 Sep - 18 Oct (2-10) AUS (RLK); 9 Sep (2) KSP (RCS); 13 Sep (1) SAB (KHD); 17 Sep (3) SAB (KHD). Orchard Oriole: last report of 5 at SAB on 8 Aug (KHD, LHD). Purple Finch: 18 Oct (3) EJC (SG); arrived in late Oct KNX, then fair numbers there by the end of the period (CPN *et al.*). House Finch: the only reports received noted 12 Sep (10) at CHA (RCS) and migrants returning to feeders at EJC 9 Oct (LHTOS). Pine Siskin: 28 Oct (2) AUS (RLK); 19 Oct (35) Thorn Hill (PDH); widespread KNX with several flocks of 50 or more by end of the period; 21 Nov (6) HLC (KHD, LHD). Evening Grosbeak: first report 6 Nov (5) KNX (PDH), then reports of small numbers there through the end of period; 9 Nov (8) AUS (RLK); 21 Nov (15) HLC (KHD, LHD).

Locations: AUS—Austin Springs; BOL—Boone Lake; BYC—Bradley Co.; CHA—Chattanooga; CHL—Chickamauga Lake; DOL—Douglas Lake; EBF—Eagle Bend Fish Hatchery; EJC—Elizabethton-Johnson City; FLL—Fort Loudoun Lake; GNC—Greene Co.; HLC—Hamilton Co.; HRA—Hiwassee River Area; KNX—Knoxville; KSP—Kingston Steam Plant; MHL—Melton Hill Lake; NIL—Nickajack Lake; NRL—Norris Lake; NOR—Norris; RAB—Rankin Bottoms; SAB—Savannah Bay.

KENNETH H. AND LILLIAN H. DUBKE, 8139 Roy Lane, Ooltewah, TN 37363.

EASTERN MOUNTAIN REGION — Temperatures were above normal during August and September, and about average during the rest of the period. Rainfall was above average in August, well below average in September and October, and near normal in November.

The highlight of the period in the northern part of the region was the shorebird migration in the Roan Creek area of Watauga Lake. Watauga Lake was drained by the Tennessee Valley Authority for maintenance work on the dam, and did not fill until well into the winter. This drawdown resulted in plentiful shorebird habitat, and there were several reports of unusual species. The hawk and warbler migrations were about normal, while sparrows were in lower than average numbers. The cone crop was very poor, possibly indicative of a poor winter for eruptive northern finches. House Finches, meanwhile, continue to expand their range, and are dominating many bird feeders.

Loon-Osprey: Common Loon, Horned Grebe: no reports. Cattle Egret: 1, 2 Aug (1) TOW (GW, HW). Green-backed Heron: last report, 14 Oct (1) RNC (RLK). Snow Goose (Blue morph): 16 Nov (1) ELI (GDE). Amer. Black Duck: 5 Nov (3) WIL (HF), first report. Blue-winged Teal: present 6 Sep - 4 Oct in ELI area (*fide* GDE). Gadwall: 1 Oct (2) RNC (RLK). Amer. Wigeon: 30 Sep (1) WIL (HF), first report. Canvasback: 18 Nov - EOP (1) WTR (RH). Redhead: 22, 23 Nov (1) RIL (GDE, RLK). Ring-necked Duck: 10 Nov (1) WTR (RH), first report, late. Lesser Scaup: 22 Nov (1) RIL (RLK), only report. Bufflehead: 9 Oct (2) WIL (RH), first report. Hooded Merganser: 22 Nov (4) RIL (RLK), first report. Osprey: 23 Jul (1) WTL (GDE). Sharp-shinned Hawk: 1 Aug (1) Great Smoky Mtns. Nat. Park (Steven Rammels); 23 Aug (1) RNM (EHS); 29 Aug (1) ELI (HF); 19 Sep (1) ERW (GWS); 3 Nov (1) ELI (HF). Cooper's Hawk: 2 Aug (1) TOW (GW, HW); 5 Sep (1) SMV (GOW); 10 Sep (1) RNM (GDE); 1 Oct (1) RIL (GDE, HF). Red-shouldered Hawk: 2 Aug (1) TOW (GW, HW). Broad-winged Hawk: 22 Sep (44 migrating) GRE (Ben Britton), also last date reported.

Grouse-Owl: Ruffed Grouse: 19 Nov (4) GRE (RN). The following shorebird records are all from the Roan Creek section of Watauga Lake, observed by RLK, unless otherwise noted. Semipalmated Plover: 19 Aug - 14 Sep (1-5). WILLET: 8-14 Sep (1). Spotted Sandpiper: 1 Aug - 3 Nov (1-6), late. RUDDY TURNSTONE: 8-14 Sept (1), 2nd ELI area record. Sanderling: 4-21 Sep (1-3) (RLK *et al.*). Western Sandpiper: 11 Aug - 21 Sep (2-12) RNC, St. John's Pond (RLK *et al.*). BAIRD'S SANDPIPER: 29 Aug - 21 Sep (1-4) largest number ever reported from region. Pectoral Sandpiper: 2 Aug - 1 Oct (2-8). STILT SANDPIPER: 8 Sep (2). WILSON'S PHALAROPE: 8 Sep (1). Ring-billed Gull: 1 Oct (3) WTL (RDL, GOW), only report. Black-billed Cuckoo: 9 Aug (1), 14 Oct (1) Iron Mtn. Gap (MD, HHD, SG). Great Horned Owl: 2 Aug (1) TOW (GW, HW); 29 Sep (1 injured, turned over to TWRA) ELI (*fide* GDE). Barred Owl: 1 Aug (1) TOW (GW, HW); 19-26 Nov (1) GRE (RN).

Swift-Thrush: Chimney Swift: 14 Oct (3) ELI (HF), last report. Red-headed Woodpecker: 19 Oct (3 migrating) SHL (*fide* GDE). Yellow-bellied Sapsucker: 1 Oct (1) HLM (RDL, GOW). WESTERN KINGBIRD: 20 Sep (1) ELI (Howard Langridge), first ELI area sighting since 1947. Purple Martin: 19 Aug (2) ELI (*fide* GDE), last report. Tree Swallow: 23 Oct (12) SMV (GDE), last report. Common Raven: several low elevation sightings in ELI area after 1 Oct (*fide* GDE). Red-breasted Nuthatch: 1 Oct (1) RNM (HF); very scarce at high elevations after 1 Oct. Veery: 27 Aug (1) RNM (RLK), last report. Swainson's Thrush: 16 Oct (1) ERW (GWS), last report. Hermit Thrush: 13 Oct (1) ELI (GOW), early. Wood Thrush: 14 Oct (1) ERW (GWS), last report.

Vireo-Grosbeak: White-eyed Vireo: 13 Oct (1) ELI (GDE), last report. Solitary Vireo: 3 Nov (1) ERW (GWS), last report. Blue-winged Warbler: 20 Sep (1) ELI (LH). Tennessee Warbler: 20 Oct (1) ELI (GDE), last report. Nashville Warbler: last report 17 Oct (1) ERW (GWS), good fall flight in area. Yellow-rumped (Myrtle) Warbler: 1 Oct (3) HLM (GOW, RDL), first report. Palm Warbler: 8 Nov (1) ELI (HF), last report. Bay-breasted Warbler: 23 Oct (1) ELI (GDE), last report. Connecticut Warbler: 20 Sep (1) ERW (GWS). Summer Tanager: 10 Oct (1) ELI (LH), last report. Grasshopper Sparrow: 25 Aug (1) SMV (RLK). Fox Sparrow: no reports from ELI area. White-throated Sparrow: 1 Oct (1) ELI (GDE, HF), first report. White-crowned Sparrow: 21 Oct (1) ELI (RLK), first report. House Finch: first migrant flocks in ELI area noted 8 Oct (*fide* GDE). Pine Siskin: 22 Nov (4) RNM (RLK), first report. Evening Grosbeak: 13 Nov (6) ELI (*fide* LH), first report.

Locations: ELI—Elizabethton area; ERW—Erwin; GRE—Greeneville; HLM—Holston Mtn.; RNC—Roan Creek area of Watauga Lake; RIL—Ripshin Lake; RNM—Roan Mtn.; SMV—Siam Valley; TOW—Townsend; WTL—Watauga Lake; WTR—Watauga River; WIL—Wilbur Lake.

GLEN D. ELLER, Rt. 3, Box 52, Elizabethton, TN 37643.

OBSERVERS

JCA—Jan C. Alexander	JLL—Jo L. Levy
KGA—Kenneth G. Anderson	SSL—Selma S. Lewis
DPB—Dianne P. Bean	ARL—Anne R. Lochridge
DB—Drue Bayer	OBL—O. Bedford Lochridge
DWB—Donald W. Blunk	RDL—Richard D. Lura
BB—Ben Britton	MLM—Margaret L. Mann
CHB—Carolyn H. Bullock	GRM—George R. Mayfield, Jr.
EC—Elizabeth Carter	JCM—Jane C. Maynard
RTC—Robert C. Casey	DM—Don Mayor
BBC—Ben B. Coffey, Jr.	RVM—Ruth V. McMillan
LCC—Lula C. Coffey	RJM—Rocky J. Milburn
CC—Chuck Cook	DM—Dwight Miller
DTC—Dot T. Crawford	RN—Richard Nevius
JPC—J. Paul Crawford	CPN—Charles P. Nicholson
DAD—Dollyann Daily	PSP—Paul S. Pardue
MLD—Marcia L. Davis	HEP—Henry E. Parmer
CD—Chris Debold	RDP—R. Donald Perry
RD—Rowan Debold	JP—Janet Phillips
MD—Martha Dillenbeck	PDR—Peter D. Robinson
HBD—Helen B. Dinkelspiel	ER—Erma Rogers
HHD—Helenhill Dove	SS—Sam Savage
CGD—C. Gerald Drewry	ABS—A. Boyd Sharp
KHD—Kenneth H. Dubke	DJS—Damien J. Simbeck
LHD—Lillian H. Dubke	RWS—Richard W. Simmers, Jr.
HF—Harry Farthing	JRS—James R. Snapper
LJF—Linda J. Fowler	BS—Blake Soule
SG—Sally Goodin	MPS—M. Patricia Stallings
JBG—Joe B. Guinn	BHS—Barbara H. Stedman
PCH—Paul C. Harris	SJS—Stephen J. Stedman
PDH—Paul D. Hartigan	RCS—Randy C. Stringer
RCH—Robbie C. Hassler	GLS—Glen W. Swofford
AHH—Annie H. Heilman	DV—Dave Vance
NRH—N.R. Heilman	DFV—David F. Vogt
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ALH—Anne L. Hettish	CFW—C. Frank Ward
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DRJ—Daniel R. Jacobson	GW—George Wood
WAJ—Walk A. Jones	HW—Hedy Wood
RLK—Richard L. Knight	LHTOS—Lee R. Herndon Chapter, TOS
JAK—J. Anthony Koella	MTOS—Memphis Chapter, TOS
LFK—Lee F. Kramer	NOTS—Nashville Chapter, TOS

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Illustration by Dave Mathewson, Jr.