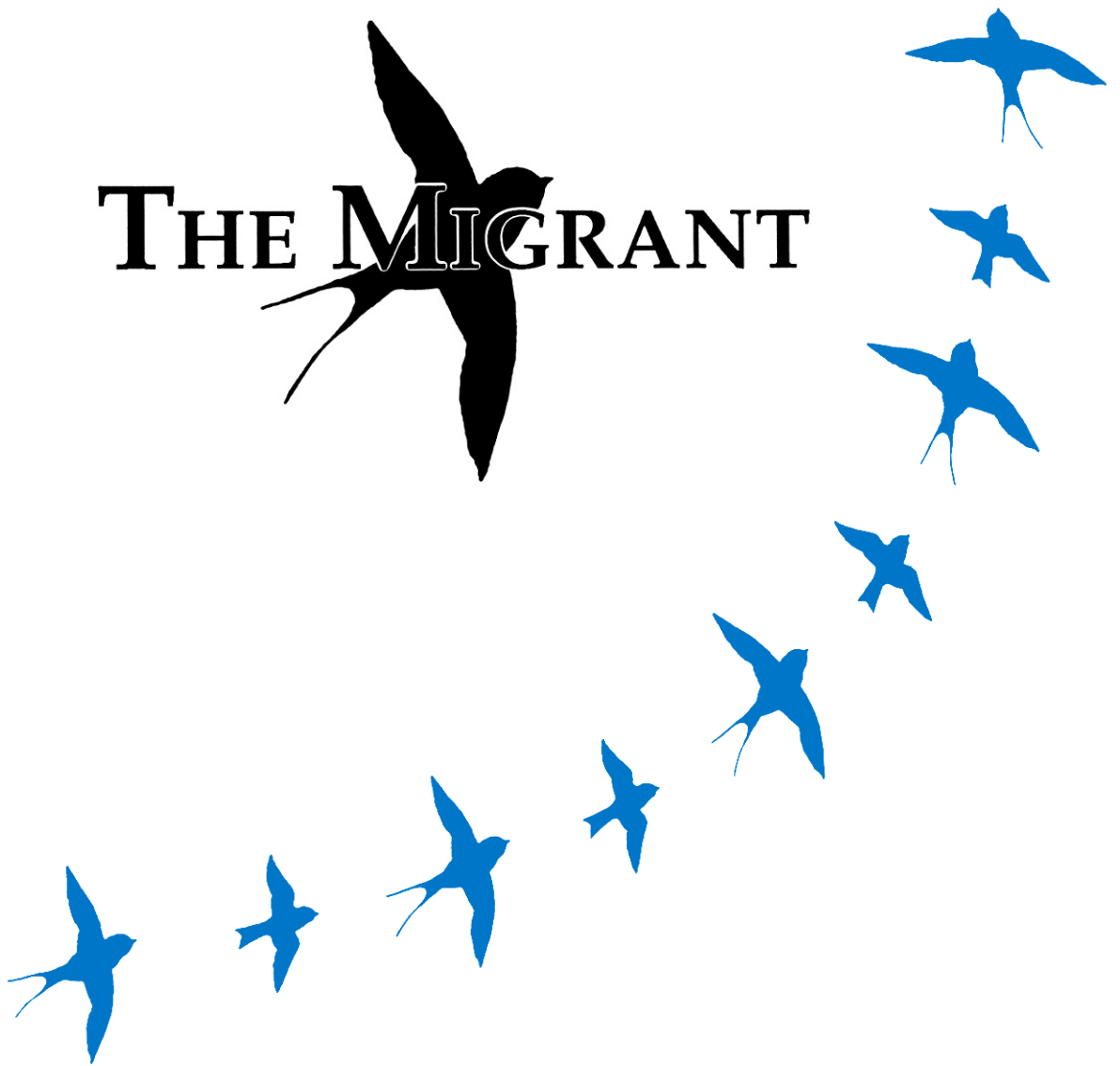




# THE MIGRANT



A QUARTERLY JOURNAL  
DEVOTED TO TENNESSEE BIRDS

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THE TENNESSEE  
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## FIRST TENNESSEE RECORD OF NORTHERN WHEATEAR

Tony King  
Knoxville, TN

Northern Wheatears (*Oenanthe oenanthe*) nest in dry northern tundra around the world including northeast and northwest Canada and Alaska. Almost all of these birds spend the nonbreeding season in sub-Saharan Africa (Kren and Zoerb 1997), although fall vagrants have occurred in many places. The first Tennessee record of Northern Wheatear was documented on 13 November 2016 on Windy Hill Farm in Loudon County (Figure 1). On that morning my wife and I visited the farm to bird as we have been doing since 2008. Our grandson was with us since he likes to play in a barn on the farm. As we passed a three-gate corner I noticed a strange bird go to ground from one of the gates. Its general shape, appearance and behavior suggested Northern Mockingbird (*Mimus ployglottos*) without a tail. I watched briefly as it dropped down into the grass to get insects, but soon headed for the barn for my grandson to play. After about an hour we came back from the barn, and I saw the bird again. I had never seen one like it before and did not know what to call it.

We returned home, and I began a search of *The Sibley Guide to Birds of Eastern North America* (Sibley 2009) where I found the bird. We identified the bird as an adult non-breeding female Northern Wheatear. I began calling members of the Knoxville chapter of TOS, and John O'Barr was able to meet me and drive back to Windy Hill Farm. Though the light was failing, he was able to photograph the bird to document it and distributed information about its location to others about the discovery.

The bird would constantly move in a circuitous route around the cattle pastures. It would sit on a wooden fence, fly down to the grass for an insect, and return to the post. Along the road lined with cars it would sometimes alight on the cars. Frequently it landed within meters of observers. The Northern Wheatear was last observed on Windy Hill Farm 20 November 2016. According to eBird data (Sullivan et al 2009) there are at least 18 occurrences of Northern Wheatear across the southeastern United States from coastal zones to mountain regions. Most records are either October or November, but there is at least one occurrence

in February. The closest record to the first Tennessee observation in Loudon County was in Transylvania County North Carolina in October 2003

The owners of Windy Hill farm graciously allowed birders to come onto their property to view the bird, which remained for nine days; and KTOS member Morton Massey was on site for most of that time to manage traffic. It is estimated that at least 250 birders were able to see the bird.

Windy Hill Farm was established in 1827; it is 200 hectares in size and located on Blair Bend on the Tennessee River. The terrain is rolling hills with about 50 hectares of forest and is bounded by forest on the sides not bordered by the river. It is mainly a cattle farm with some acreage leased for row crops. Steve Brewington is the third generation manager of the farm. The farm is the site of the only known active Bald Eagle (*Haliaeetus leucocephalus*) nest in Loudon County. My wife and I have been allowed free access to the farm since 2008 when we first learned of the eagle nest along the river there, made the effort to find the nest location from land, and got to know Steve and his family.

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**Figure 1. An adult female Northern Wheatear was observed in Loudon County Tennessee from 13 November to 20 November 2016. Photo credit: Ron Hoff**

## RECENT RANGE EXPANSION OF THE FISH CROW INTO EAST TENNESSEE

Richard L. Knight  
Johnson City, TN

Fish Crows (*Corvus ossifragus*) are endemic to the eastern and southeastern United States, from southern New England southward along the coastal plain and piedmont to Florida, thence westward across the Deep South to eastern Texas, and up the Mississippi River to Missouri and Illinois. In recent decades this species has been expanding its range up the Mississippi River drainage and to other inland areas, especially along river corridors (Alderfer 2006). The preferred habitat of Fish Crows is fields and woodland edges along rivers and lakes, but they also occur in suburban settings.

The historic range of the Fish Crow in Tennessee was limited to counties adjacent to the Mississippi River, particularly Shelby County (Robinson 1990). Since the mid-1980s they have been expanding their range upstream along tributaries of the Mississippi River in West Tennessee (McNair 1997) and into Hardin County along the Tennessee River in the mid-state (Somershoe and Sloan 2015). This note summarizes Fish Crow expansion into East Tennessee, beginning in Hamilton County and advancing northeastward along the Tennessee River and its tributaries.

The first report of Fish Crows in East Tennessee was of four birds flying over Savannah Bay in Hamilton County on 10 April 1979 (Dubke 1982). However, there were no additional reports in the region for 21 years until one was noted on 5 March 2000 at Booker T. Washington State Park, also in Hamilton County (*The Migrant* 71:93). The next significant moves by the species were to Roane County in 2004 and Knox County in 2005, evidently leapfrogging up the Tennessee River valley. Reports from Blount, Anderson, Loudon, and Campbell counties soon followed from 2006 through 2011. Expansion from Hamilton County into adjacent Marion County was first reported in 2007 and into Rhea County in 2015. In another apparent leapfrog movement, Fish Crows appeared in Washington County in 2015 and Sullivan County in 2016 (see Table 1 for a summary and documentation). The Sullivan County reports occurred along the South Holston River in Kingsport, following the typical pattern of dispersal along rivers. However, the reports in adjacent Washington County occurred in residential portions of Johnson City, somewhat distant from the nearest river, but still within an acceptable habitat type.

Fish Crows have been reported annually in Hamilton County since 2002 and in Knox County since 2005 (*The Season* and seasonal bird counts in *The Migrant*). These two counties remain as the centers of abundance for this species in East Tennessee, although their distribution remains localized within these counties. The lack of reports in some other counties along the Tennessee River drainage may represent genuine gaps or simply be an artifact of insufficient coverage in those counties. Most reports are from the spring, but Fish Crows have been noted in all months in East Tennessee. Presumably they are breeding, at least in Hamilton and Knox counties; however, the only published mention of breeding is of nest building in Knox County in late April 2014 (*The Migrant* 85:66). This rapid expansion

from the Chattanooga area up to the Tri-Cities is part of a widespread expansion by this species. Further expansion and range consolidation within East Tennessee seems likely and should be documented, especially breeding records.

**Table 1. First reports of Fish Crows by county in East Tennessee.**

<u>County</u>	<u>Location</u>	<u>Date</u>	<u>Reference*</u>
Hamilton	Savannah Bay	10 Apr 1979	Dubke 1982
Roane	Kingston Steam Plant	18 Apr 2004	The Migrant 75:117
Knox	-----	18 Mar 2005	The Migrant 76:101
Blount	Louisville	22 May 2006	The Migrant 77:104
Marion	Nickajack Lake	8 Sep 2007	The Migrant 79:26
Anderson	Norris Dam	4 Apr 2010	The Migrant 81:120
Loudon	-----	8 May 2010	Hoff 2011
Campbell	Jacksboro	12 Mar 2011	The Migrant 82:91
Rhea	Yuchi WMA	22 May 2015	eBird
Washington	Johnson City	7 Jul 2015	The Migrant 86:151
Sullivan	Kingsport	30 Apr 2016	The Migrant in press

\* References from The Season report are cited as Migrant with volume and page number.

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**BREEDING BIRD FORAYS IN TENNESSEE'S UPPER  
CUMBERLAND REGION: PART III  
(WARREN, WHITE, VAN BUREN AND BLEDSOE COUNTIES)**

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Starting in 2008 the senior author (SJS) initiated a series of breeding bird forays to cover 16 counties in the Upper Cumberland region of Tennessee as well as 10 nearby counties in Kentucky. This effort was intended to supplement prior breeding bird foray work and especially breeding bird atlas work undertaken from 1986-1991 (Nicholson 1997), both to enhance coverage and to document ensuing changes in bird species distribution and abundance.

This is the third in a series (see Stedman and LeGrand 2016a, 2016b) presenting breeding bird foray data from four additional Tennessee counties. The counties presented extend geographically from west to east, thereby emphasizing elevational differences among the counties. These differences will be highlighted in a summary article dealing with all sixteen counties. Warren County lies predominantly on the Eastern Highland Rim with some elements of the escarpment between the rim and the Cumberland Plateau occurring along its eastern border. The western two-thirds of White County lie situated on the Highland Rim and the eastern third on the plateau. Van Buren County lies mostly on the plateau except in the northwestern corner which falls to the Highland Rim. Bledsoe County lies on the plateau but is dramatically bisected from southwest to northeast by the Sequatchie Valley.

Each county was divided into survey blocks derived from United States Geological Survey topographic maps. Topographic maps are 7.5-minute quadrangles, each approximately 11.3 x 13.9 km that were subdivided into six 5.7 x 4.6 km blocks (26.2 km<sup>2</sup>) as described by Nicholson (1997). These blocks were overlain on the county boundaries, with a typical county having 40-50 blocks (range 24-75 blocks). However, the county boundaries split many blocks such that many were considered as partial blocks or were completely excluded if little of the block lay within the county. Forays were conducted during late May or in June; the period of each foray varied from several days to two weeks, being mostly 3-7 days in length. A complete overview of methods is provided by Stedman and LeGrand (2016a).

Observers classified the status of each species in each survey block as one of the following:

- I. Transient (TRANS), based on presumption of lack of breeding by the species;
- II. Possible Breeder (POSS), denoted by X-present during the foray;
- III. Probable Breeder (PROB), denoted by T-territorial (present at same site)

- on dates at least a week apart; not usually possible), P–pair, A–agitated behavior (presumably near nest or young), and C–courtship or copulation; and
- IV. Confirmed Breeder (CONF) denoted by
- a. DD–distraction display,
  - b. CN–adult carrying nest material,
  - c. NB–adult building nest,
  - d. UN–used nest,
  - e. FY–adult carrying food for young,
  - f. BG–begging young,
  - g. FL–fledged young,
  - h. FS–fecal sac removed from nest by adult,
  - i. ON–adult on nest incubating,
  - j. NE–nest with eggs, and
  - k. NY–nest with young.

## RESULTS AND DISCUSSION

The overall foray statistics for each county are presented in Table 1. The occurrence of each species, the highest level of breeding status found, and its abundance are presented in Appendix I. Distribution and abundance of many species ranged widely across counties during the forays; for example, Grasshopper Sparrow (*Ammodramus savannarum*) abundance maximized at four individuals in survey blocks of one county but up to eleven individuals in one survey block in each of two counties (Appendix I, Figures 1 – 4).

## ACKNOWLEDGMENTS

The following observers participated in the following county forays (Warren-Wa; White-Wh; Van Buren-VB; Bledsoe-B): Edmund K. LeGrand (Wh, VB, B), N. P. (Mac) McWhirter (Wa), Susan N. McWhirter (Wa), Barbara H. Stedman (VB), and Stephen J. Stedman (Wa, Wh, VB, B).

We thank Winston A. Walden, late Director of the Angelo and Jennette Volpe Library at Tennessee Technological University, for supplying copies of maps of the foray blocks.

We dedicate this work to the memory of Barbara H. Stedman.

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**Table 1. Summarized Foray Effort and Results by County**

County	Warren	White	Van Buren	Bledsoe
Foray period	1-10 June 2016	1-6 June 2015	13-15 June 2011	17-22 June 2012
Blocks in county	47	50	33	48
Blocks with any coverage	47	44	33	46
Blocks with complete coverage	36	25	20	29
Blocks with 2 hour counting period	35	21	19	25
Blocks with 3 hour counting period	1	4	1	4
Blocks with night coverage	12	12	17	34
Total daylight counting hours (all blocks)	84.7	80.5	58.75	81.75
Night counting hours	4.8	4.25	6	10
Additional hours	7.75	7.75	5.5	16.75
Observers	3	2	3	2
Total species	101	105	108	103
Confirmed	33	35	61	24
Probable	9	7	3	12
Possible	57	61	43	66
Transient	2	2	1	1
(Atlas species missed on Foray)*	(5)	(11)	(4)	(9)
(Foray species missed on Atlas)*	(10)	(12)	(17)	(12)
Average # spp./2- and 3-hr blocks	52.75	57.8	58.4	56.3
Range of spp. # in 2- and 3-hr blocks	33-65	41-66	36-80	46-67
Total individuals counted	"12,966"	"12,031"	"10,347"	"12,371"
Individuals per hour: 2 hour day counting	156.5	171.2	168.2	144.7
Individuals per hour: 3 hour day counting	141.3	78.9	70.7	225.7**
Individuals per hour: 2 & 3 hour day counting	155.9	150.7	161.0	160.4**
Individuals per hour: all day counting periods	152.9	148.8	173.6	150.0**

\* Excludes transients

\*\* High due to sighting of 1000 Cliff Swallows one afternoon

**Appendix I. Species Breeding Status and Abundance by County  
Warren County 2016**

Species	Breeding Status <sup>1</sup>	Average/ hour <sup>2</sup>	% blocks present <sup>3</sup>	Individuals counted <sup>4</sup>	# blocks present <sup>5</sup>	Maximum (any block) <sup>6</sup>
Black-bellied Whistling-Duck	TRANS	0.1	3%	8	1	8
Canada Goose	CONF-FL	4.7	36%	394	14	200
Wood Duck	CONF-FL	0.4	22%	34	9	12
Mallard	POSS-X	0.1	8%	6	3	3
Northern Bobwhite	POSS-X	1.0	64%	86	28	10
Ruffed Grouse						
Wild Turkey	POSS-X	0.2	31%	13	11	2
Pied-billed Grebe						
Double-crested Cormorant						
Great Blue Heron	CONF-ON	0.5	53%	42	21	9
Great Egret						
Green Heron	PROB-P	0.1	22%	10	9	2
Black-crowned Night-Heron	POSS-X	0.0	3%	1	1	1
Yellow-crowned Night-Heron						
Black Vulture	POSS-X	0.8	36%	68	17	30
Turkey Vulture	POSS-X	1.3	61%	106	30	15
Osprey						
Golden Eagle	TRANS	0.0	3%	1	1	1
Northern Harrier						
Sharp-shinned Hawk						
Cooper's Hawk	POSS-X	0.1	11%	5	4	2
Red-shouldered Hawk	POSS-X	0.2	28%	15	12	2
Broad-winged Hawk	POSS-X	0.1	8%	9	5	3
Red-tailed Hawk	PROB-P	0.4	56%	30	23	3
Killdeer	CONF-FL	1.3	69%	106	30	11
peep sp.						
American Woodcock*						
Rock Pigeon	POSS-X	0.5	36%	41	14	10
Eurasian Collared-Dove	POSS-X	0.1	6%	7	3	5
Mourning Dove	PROB-P	6.0	100%	507	46	53
Yellow-billed Cuckoo	POSS-X	0.6	56%	55	23	6
Barn Owl*	POSS-X	0.0	0%	0	0	0
Eastern Screech-Owl*	ATLAS					
Great Horned Owl*	POSS-X	0.2	8%	1	1	1
Barred Owl*	CONF-FL	0.6	17%	3	2	2
Common Nighthawk*	POSS-X	0.0	0%	0	0	0
Chuck-will's-widow*	POSS-X	2.1	42%	10	5	5

Species	Breeding Status <sup>1</sup>	Average/ hour <sup>2</sup>	% blocks present <sup>3</sup>	Individuals counted <sup>4</sup>	# blocks present <sup>5</sup>	Maximum (any block) <sup>6</sup>
Eastern Whip-poor-will*	POSS-X	1.0	33%	5	4	2
Chimney Swift	POSS-X	0.7	56%	60	23	10
Ruby-throated Hummingbird	POSS-X	0.1	17%	12	7	4
Belted Kingfisher	PROB-P	0.1	19%	9	7	2
Red-headed Woodpecker	POSS-X	0.3	44%	27	17	3
Red-bellied Woodpecker	POSS-X	1.4	100%	121	45	6
Downy Woodpecker	POSS-X	0.3	39%	22	17	2
Hairy Woodpecker	CONF-FL	0.1	19%	9	8	2
Northern Flicker	POSS-X	0.3	47%	25	18	3
Pileated Woodpecker	PROB-P	0.3	42%	27	17	4
American Kestrel	CONF-FL	0.8	72%	69	28	10
Eastern Wood-Pewee	POSS-X	1.9	72%	161	32	14
Acadian Flycatcher	POSS-X	0.3	39%	22	15	3
Willow Flycatcher	POSS-X	0.0	3%	1	1	1
Least Flycatcher						
Eastern Phoebe	CONF-ON	1.1	94%	96	38	7
Great Crested Flycatcher	CONF-CN	1.0	94%	88	39	6
Eastern Kingbird	CONF-NB	2.5	92%	210	40	14
Scissor-tailed Flycatcher						
Loggerhead Shrike	POSS-X	0.0	11%	4	4	1
White-eyed Vireo	POSS-X	2.2	86%	184	40	11
Yellow-throated Vireo	POSS-X	0.3	47%	28	21	3
Blue-headed Vireo						
Warbling Vireo	POSS-X	0.0	3%	1	1	1
Red-eyed Vireo	POSS-X	2.0	94%	171	44	11
Blue Jay	POSS-X	2.6	97%	222	44	13
American Crow	CONF-FL	5.8	100%	492	45	39
Horned Lark	POSS-X	0.0	0%	1	1	1
Northern Rough-winged Swallow	CONF-FY	0.5	33%	44	15	8
Purple Martin	CONF-ON	0.8	36%	64	17	15
Tree Swallow	CONF-FY	0.5	53%	39	20	5
Barn Swallow	CONF-ON	4.3	97%	362	43	55
Cliff Swallow	CONF-ON	0.4	6%	37	3	30
Carolina Chickadee	CONF-FL	1.0	75%	84	34	6
Tufted Titmouse	POSS-X	4.3	100%	366	46	29
White-breasted Nuthatch	POSS-X	0.5	50%	42	21	9
Brown-headed Nuthatch						
House Wren	POSS-X	0.3	22%	28	9	12
Carolina Wren	POSS-X	5.3	100%	452	46	21
Blue-gray Gnatcatcher	POSS-X	0.9	61%	74	28	6

Species	Breeding Status <sup>1</sup>	Average/ hour <sup>2</sup>	% blocks present <sup>3</sup>	Individuals counted <sup>4</sup>	# blocks present <sup>5</sup>	Maximum (any block) <sup>6</sup>
Eastern Bluebird	CONF-FL	3.4	97%	287	45	17
Wood Thrush	POSS-X	0.4	61%	36	23	4
American Robin	CONF-FL	5.1	94%	433	42	29
Gray Catbird	POSS-X	0.1	11%	6	5	2
Brown Thrasher	CONF-FY	2.2	86%	185	39	13
Northern Mockingbird	CONF-FL	4.9	92%	417	43	18
European Starling	CONF-ON	14.5	86%	1227	37	290
Cedar Waxwing	POSS-X	0.5	33%	42	15	11
Ovenbird	POSS-X	0.0	3%	1	1	1
Worm-eating Warbler	ATLAS					
Louisiana Waterthrush	POSS-X	0.1	8%	6	6	1
Golden-winged Warbler						
Blue-winged Warbler						
Black-and-white Warbler	ATLAS					
Prothonotary Warbler	ATLAS					
Kentucky Warbler	POSS-X	0.5	56%	39	22	3
Common Yellowthroat	CONF-FY	1.8	81%	153	35	11
Hooded Warbler	POSS-X	0.1	11%	9	5	3
American Redstart	POSS-X	0.0	3%	1	1	1
Cerulean Warbler						
Northern Parula	POSS-X	0.4	47%	31	20	3
Yellow Warbler	POSS-X	0.0	3%	1	1	1
Chestnut-sided Warbler						
Pine Warbler	POSS-X	0.1	17%	9	7	2
Yellow-throated Warbler	CONF-FL	0.7	69%	60	30	6
Prairie Warbler	POSS-X	0.6	56%	47	25	5
Black-throated Green Warbler						
Yellow-breasted Chat	CONF-FY	1.7	94%	144	42	10
Grasshopper Sparrow	POSS-X	0.6	47%	55	18	8
Henslow's Sparrow						
Chipping Sparrow	CONF-FL	3.4	97%	285	46	15
Field Sparrow	CONF-FY	4.2	92%	356	42	25
Lark Sparrow	ATLAS					
Savannah Sparrow						
Song Sparrow	POSS-X	4.6	81%	391	36	27
Eastern Towhee	POSS-X	4.7	100%	397	45	26
Summer Tanager	PROB-P	1.2	86%	100	39	7
Scarlet Tanager	POSS-X	0.1	25%	11	9	3
Northern Cardinal	CONF-CN	7.0	100%	594	47	30
Blue Grosbeak	PROB-A	2.5	92%	212	40	15
Indigo Bunting	CONF-FS	9.4	97%	799	45	50
Dickcissel	POSS-X	0.4	28%	37	11	11

Species	Breeding Status <sup>1</sup>	Average/ hour <sup>2</sup>	% blocks present <sup>3</sup>	Individuals counted <sup>4</sup>	# blocks present <sup>5</sup>	Maximum (any block) <sup>6</sup>
Red-winged Blackbird	PROB-P	3.5	94%	299	41	25
Eastern Meadowlark	POSS-X	4.6	89%	392	41	23
Common Grackle	CONF-FL	2.3	86%	197	38	21
Brown-headed Cowbird	PROB-P	1.3	75%	109	34	8
Orchard Oriole	CONF-FL	1.1	75%	94	33	10
Baltimore Oriole						
House Finch	CONF-FL	1.1	72%	92	31	9
American Goldfinch	POSS-X	1.2	78%	100	34	10
House Sparrow	CONF-CN	1.1	56%	95	23	8

<sup>1</sup> See text for codes.

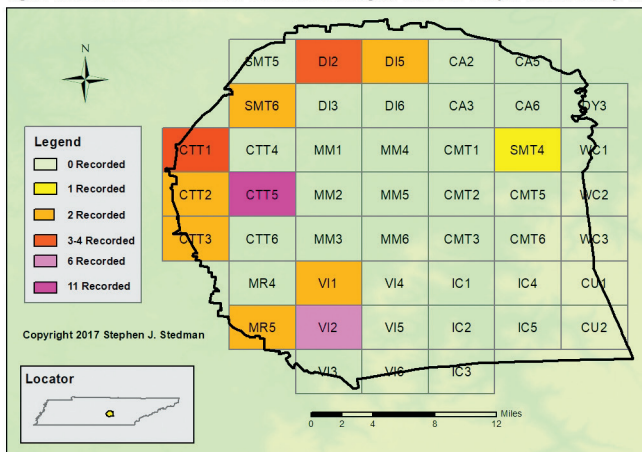
<sup>2</sup> Includes all counting hours. Abundance data for nocturnal species (\*) are based on effort during night counting periods only.

<sup>3</sup> Based on blocks with complete 2- or 3-hr counting periods. Abundance data for nocturnal species (\*) are based on blocks with night counting periods only.

<sup>4</sup> Total individuals counted during all daylight counting periods or night counting periods.

<sup>5</sup> Total number of blocks where found (includes effort conducted in addition to counting periods).

<sup>6</sup> Counting periods only.



**Figure 1. Distribution and abundance of Dickcissel during the 2016 UCR Foray in Warren County, TN.**

## White County 2015

Species	Breeding Status <sup>1</sup>	Average/ hour <sup>2</sup>	% blocks present <sup>3</sup>	Individuals counted <sup>4</sup>	# blocks present <sup>5</sup>	Maximum (any block) <sup>6</sup>
Black-bellied Whistling-Duck						
Canada Goose	CONF--FL	3.1	44%	248	16	52
Wood Duck	CONF--FL	0.2	32%	15	11	4
Mallard	CONF--FL	0.3	16%	28	9	13
Northern Bobwhite	POSS--X	0.4	52%	35	16	7
Ruffed Grouse	ATLAS					
Wild Turkey	POSS--X	0.4	44%	30	16	6
Pied-billed Grebe	ATLAS					
Double-crested Cormorant	TRANS	0.0	4%	1	1	1
Great Blue Heron	POSS--X	0.1	28%	12	10	3
Great Egret						
Green Heron	PROB--P	0.2	32%	17	15	2
Black-crowned Night-Heron						
Yellow-crowned Night-Heron	ATLAS					
Black Vulture	POSS--X	0.9	36%	69	15	26
Turkey Vulture	POSS--X	1.5	76%	121	35	13
Osprey	POSS--X	0.0	0%	1	1	1
Golden Eagle						
Northern Harrier						
Sharp-shinned Hawk	ATLAS					
Cooper's Hawk	POSS--X	0.1	12%	6	5	2
Red-shouldered Hawk	POSS--X	0.3	32%	21	16	3
Broad-winged Hawk	POSS--X	0.1	16%	7	7	1
Red-tailed Hawk	CONF--BG	0.3	36%	23	19	3
Killdeer	POSS--X	0.5	60%	42	21	11
peep sp.	TRANS	0.0	4%	2	1	2
American Woodcock*	ATLAS					
Rock Pigeon	CONF--ON	0.9	32%	71	13	30
Eurasian Collared-Dove	POSS--X	0.2	8%	13	4	5
Mourning Dove	CONF--FL	5.6	100%	454	43	43
Yellow-billed Cuckoo	POSS--X	0.4	44%	33	24	4
Barn Owl*	CONF--FL	0.0	0%	0	1	0
Eastern Screech-Owl*	CONF--FL	0.9	25%	4	3	2
Great Horned Owl*	ATLAS					
Barred Owl*	POSS--X	0.2	8%	1	1	1
Common Nighthawk*	PROB--C	0.5	8%	2	1	2
Chuck-will's-widow*	POSS--X	3.1	58%	13	7	3
Eastern Whip-poor-will*	POSS--X	7.3	50%	31	6	12
Chimney Swift	POSS--X	0.8	72%	66	31	6
Ruby-throated Hummingbird	PROB--C	0.1	16%	7	6	2

Species	Breeding Status <sup>1</sup>	Average/ hour <sup>2</sup>	% blocks present <sup>3</sup>	Individuals counted <sup>4</sup>	# blocks present <sup>5</sup>	Maximum (any block) <sup>6</sup>
Belted Kingfisher	POSS--X	0.1	12%	6	5	2
Red-headed Woodpecker	POSS--X	0.3	48%	28	20	4
Red-bellied Woodpecker	CONF--FY	1.6	84%	132	38	8
Downy Woodpecker	CONF--FL	0.3	52%	23	18	4
Hairy Woodpecker	CONF--FL	0.2	36%	20	17	2
Northern Flicker	POSS--X	0.3	56%	27	20	3
Pileated Woodpecker	POSS--X	0.5	60%	39	26	4
American Kestrel	CONF--FL	0.7	60%	53	25	6
Eastern Wood-Pewee	POSS--X	2.3	96%	184	40	14
Acadian Flycatcher	POSS--X	1.2	64%	96	32	9
Willow Flycatcher						
Least Flycatcher						
Eastern Phoebe	CONF--ON	0.7	64%	53	28	4
Great Crested Flycatcher	POSS--X	0.6	68%	51	27	4
Eastern Kingbird	CONF--NB	1.7	96%	138	38	11
Scissor-tailed Flycatcher	POSS--X	0.0	0%	0	1	0
Loggerhead Shrike	POSS--X	0.0	4%	2	1	2
White-eyed Vireo	POSS--X	1.8	88%	141	37	13
Yellow-throated Vireo	POSS--X	0.9	80%	74	37	7
Blue-headed Vireo	POSS--X	0.0	8%	4	3	3
Warbling Vireo						
Red-eyed Vireo	PROB--P	4.6	100%	370	43	17
Blue Jay	CONF--FY	2.4	96%	192	41	16
American Crow	CONF--FL	5.1	96%	411	43	39
Horned Lark	POSS--X	0.0	4%	1	1	1
Northern Rough-winged						
Swallow	CONF--NB	0.7	60%	60	22	14
Purple Martin	CONF--ON	0.7	32%	58	13	13
Tree Swallow	CONF--ON	0.7	76%	54	26	6
Barn Swallow	POSS--X	4.3	100%	347	41	27
Cliff Swallow	CONF--UN	1.4	8%	115	7	43
Carolina Chickadee	POSS--X	1.6	80%	131	40	11
Tufted Titmouse	CONF--FL	3.3	100%	264	44	15
White-breasted Nuthatch	CONF--FY	0.5	60%	42	24	6
Brown-headed Nuthatch	POSS--X	0.0	0%	0	1	0
House Wren	POSS--X	0.4	52%	31	18	4
Carolina Wren	CONF--FY	3.9	96%	317	43	21
Blue-gray Gnatcatcher	POSS--X	1.9	72%	154	36	13
Eastern Bluebird	CONF--FL	1.7	84%	134	35	9
Wood Thrush	POSS--X	0.8	68%	64	26	10
American Robin	CONF--FL	4.1	92%	334	33	30
Gray Catbird	POSS--X	0.1	24%	12	9	3
Brown Thrasher	POSS--X	1.5	92%	117	37	6

Species	Breeding Status <sup>1</sup>	Average/ hour <sup>2</sup>	% blocks present <sup>3</sup>	Individuals counted <sup>4</sup>	# blocks present <sup>5</sup>	Maximum (any block) <sup>6</sup>
Northern Mockingbird	CONF--FL	3.3	96%	263	38	20
European Starling	CONF--FY	18.5	96%	1489	39	310
Cedar Waxwing	POSS--X	0.2	20%	14	7	4
Ovenbird	POSS--X	0.3	36%	27	13	5
Worm-eating Warbler	POSS--X	0.0	4%	1	1	1
Louisiana Waterthrush	POSS--X	0.2	20%	19	11	9
Golden-winged Warbler	ATLAS					
Blue-winged Warbler						
Black-and-white Warbler	POSS--X	0.1	20%	10	9	2
Prothonotary Warbler	POSS--X	0.0	8%	4	4	1
Kentucky Warbler	POSS--X	0.8	68%	67	33	8
Common Yellowthroat	POSS--X	2.4	100%	192	42	15
Hooded Warbler	POSS--X	0.7	68%	56	27	9
American Redstart	ATLAS					
Cerulean Warbler	ATLAS					
Northern Parula	POSS--X	0.7	60%	60	28	5
Yellow Warbler	ATLAS					
Chestnut-sided Warbler						
Pine Warbler	POSS--X	0.5	32%	41	14	12
Yellow-throated Warbler	POSS--X	1.3	88%	106	38	9
Prairie Warbler	CONF--FY	1.2	76%	98	33	9
Black-throated Green Warbler	POSS--X	0.1	12%	5	3	2
Yellow-breasted Chat	CONF--FL	1.8	88%	142	39	13
Grasshopper Sparrow	POSS--X	0.3	24%	22	10	4
Henslow's Sparrow	POSS--X	0.1	8%	6	2	3
Chipping Sparrow	CONF--FY	3.7	100%	297	42	20
Field Sparrow	CONF--FY	3.7	100%	295	43	19
Lark Sparrow						
Savannah Sparrow						
Song Sparrow	POSS--X	3.1	96%	247	37	24
Eastern Towhee	POSS--X	2.2	92%	175	36	15
Summer Tanager	POSS--X	1.0	64%	78	29	10
Scarlet Tanager	POSS--X	0.5	48%	43	23	6
Northern Cardinal	POSS--X	4.9	92%	398	42	27
Blue Grosbeak	CONF--CN	1.5	96%	124	38	12
Indigo Bunting	CONF--FY	8.7	100%	701	44	36
Dickcissel	POSS--X	0.1	8%	7	2	4
Red-winged Blackbird	CONF--FY	3.2	100%	258	41	17
Eastern Meadowlark	POSS--X	3.4	96%	271	40	25
Common Grackle	CONF--FY	3.1	88%	251	32	25
Brown-headed Cowbird	PROB--C	2.4	84%	191	38	23



Species	Breeding Status <sup>1</sup>	Average/ hour <sup>2</sup>	% blocks present <sup>3</sup>	Individuals counted <sup>4</sup>	# blocks present <sup>5</sup> (any block) <sup>6</sup>	Maximum (any block) <sup>6</sup>
Orchard Oriole	POSS--X	1.6	92%	132	37	9
Baltimore Oriole	ATLAS					
House Finch	PROB--P	0.5	48%	37	21	7
American Goldfinch	POSS--X	1.4	96%	110	38	8
House Sparrow	PROB--C	1.8	76%	142	31	13

<sup>1</sup> See text for codes.

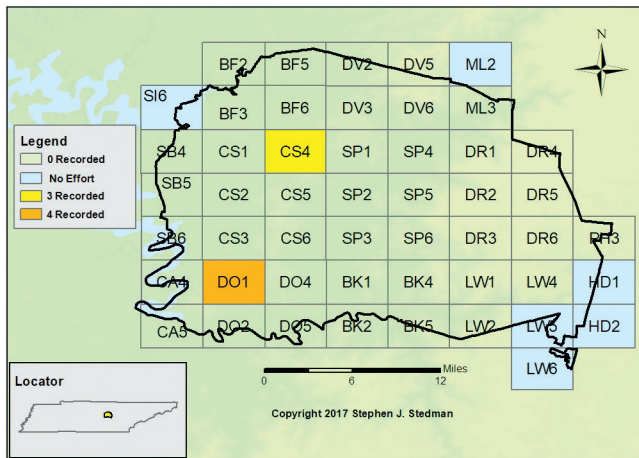
<sup>2</sup> Includes all counting hours. Abundance data for nocturnal species (\*) are based on effort during night counting periods only.

<sup>3</sup> Based on blocks with complete 2- or 3-hr counting periods. Abundance data for nocturnal species (\*) are based on blocks with night counting periods only.

<sup>4</sup> Total individuals counted during all daylight counting periods or night counting periods.

<sup>5</sup> Total number of blocks where found (includes effort conducted in addition to counting periods).

<sup>6</sup> Counting periods only.



**Figure 2. Distribution and abundance of Dickcissel during the 2015 UCR Foray in White County, TN.**

## Van Buren County 2011

Species	Breeding Status <sup>1</sup>	Average/ hour <sup>2</sup>	% blocks present <sup>3</sup>	Individuals counted <sup>4</sup>	# blocks present <sup>5</sup>	Maximum (any block) <sup>6</sup>
Black-bellied Whistling-Duck						
Canada Goose	CONF--FL	0.7	20%	39	5	18
Wood Duck	CONF--FL	0.2	15%	9	7	2
Mallard	POSS--X	0.3	5%	18	1	18
Northern Bobwhite	CONF--FL	0.9	65%	54	21	5
Ruffed Grouse	ATLAS					
Wild Turkey	CONF--FL	0.4	45%	21	13	3
Pied-billed Grebe						
Double-crested Cormorant						
Great Blue Heron	CONF--NY	0.2	20%	12	9	3
Great Egret						
Green Heron	POSS--X	0.2	30%	10	10	1
Black-crowned Night-Heron						
Yellow-crowned Night-Heron						
Black Vulture	POSS--X	0.1	15%	6	5	3
Turkey Vulture	POSS--X	0.9	40%	53	20	7
Osprey	POSS--X	0.0	0%	0	1	0
Golden Eagle						
Northern Harrier	POSS--X	0.0	10%	2	2	1
Sharp-shinned Hawk	ATLAS					
Cooper's Hawk	POSS--X	0.1	15%	4	4	1
Red-shouldered Hawk	POSS--X	0.3	50%	18	14	2
Broad-winged Hawk	CONF--FL	0.2	40%	12	10	2
Red-tailed Hawk	PROB--P	0.2	35%	13	11	2
Killdeer	POSS--X	0.4	50%	26	16	5
peep sp.						
American Woodcock*	POSS--X	0.2	6%	1	2	1
Rock Pigeon	CONF--NY	0.5	20%	32	8	7
Eurasian Collared-Dove						
Mourning Dove	POSS--X	5.3	95%	311	29	33
Yellow-billed Cuckoo	CONF--FY	0.9	75%	52	24	5
Barn Owl*						
Eastern Screech-Owl*	CONF--BG	1.2	29%	7	5	2
Great Horned Owl*	POSS--X	1.3	29%	8	5	3
Barred Owl*	POSS--X	1.3	24%	8	5	3
Common Nighthawk*	POSS--X	0.3	6%	2	2	2
Chuck-will's-widow*	POSS--X	3.5	35%	21	7	8
Eastern Whip-poor-will*	POSS--X	16.5	100%	99	18	22
Chimney Swift	CONF--ON	0.5	35%	30	13	6
Ruby-throated Hummingbird	POSS--X	0.4	40%	24	16	3

Species	Breeding Status <sup>1</sup>	Average/ hour <sup>2</sup>	% blocks present <sup>3</sup>	Individuals counted <sup>4</sup>	# blocks present <sup>5</sup>	Maximum (any block) <sup>6</sup>
Belted Kingfisher	POSS--X	0.0	5%	1	1	1
Red-headed Woodpecker	CONF--NY	0.6	55%	36	15	4
Red-bellied Woodpecker	CONF--FL	1.4	70%	81	24	9
Downy Woodpecker	CONF--FL	0.5	60%	30	21	3
Hairy Woodpecker	CONF--FL	0.3	45%	19	13	3
Northern Flicker	CONF--FY	1.0	80%	60	25	6
Pileated Woodpecker	CONF--FL	0.7	65%	42	21	5
American Kestrel	POSS--X	0.1	15%	7	7	2
Eastern Wood-Pewee	CONF--FY	1.2	90%	70	29	7
Acadian Flycatcher	POSS--X	0.6	45%	37	15	13
Willow Flycatcher						
Least Flycatcher	TRANS	0.0	0%	1	1	1
Eastern Phoebe	CONF--NY	1.5	95%	86	26	7
Great Crested Flycatcher	CONF--FL	0.6	85%	38	24	4
Eastern Kingbird	CONF--NY	1.8	80%	107	23	12
Scissor-tailed Flycatcher	POSS--X	0.0	5%	1	1	1
Loggerhead Shrike	CONF--FL	0.1	5%	3	2	2
White-eyed Vireo	CONF--FY	2.2	85%	130	28	12
Yellow-throated Vireo	POSS--X	0.9	80%	51	24	6
Blue-headed Vireo	POSS--X	0.2	30%	13	8	3
Warbling Vireo	POSS--X	0.0	0%	1	1	1
Red-eyed Vireo	CONF--FY	9.0	100%	526	33	34
Blue Jay	CONF--CN	2.9	95%	172	29	19
American Crow	CONF--FL	10.0	100%	589	33	59
Horned Lark	POSS--X	0.0	5%	1	1	1
Northern Rough-winged Swallow	POSS--X	0.4	35%	26	11	4
Purple Martin	CONF--NY	1.7	50%	102	14	23
Tree Swallow	CONF--FL	0.4	35%	26	13	7
Barn Swallow	CONF--FL	5.0	90%	294	27	58
Cliff Swallow	CONF--NY	1.0	20%	58	7	22
Carolina Chickadee	CONF--FL	2.5	100%	144	33	12
Tufted Titmouse	CONF--FY	2.6	100%	152	32	17
White-breasted Nuthatch	POSS--X	0.8	70%	47	24	5
Brown-headed Nuthatch	POSS--X	0.0	0%	0	1	0
House Wren	CONF--ON	0.2	25%	11	7	3
Carolina Wren	CONF--FL	2.4	90%	139	31	17
Blue-gray Gnatcatcher	CONF--FL	1.4	95%	85	28	6
Eastern Bluebird	CONF--FL	4.7	100%	277	30	22
Wood Thrush	CONF--FL	1.0	65%	59	22	11
American Robin	CONF--FL	4.1	85%	240	27	30
Gray Catbird	CONF--FY	0.5	40%	31	13	5
Brown Thrasher	CONF--NY	1.3	55%	75	21	8

Species	Breeding Status <sup>1</sup>	Average/ hour <sup>2</sup>	% blocks present <sup>3</sup>	Individuals counted <sup>4</sup>	# blocks present <sup>5</sup>	Maximum (any block) <sup>6</sup>
Northern Mockingbird	CONF--NY	2.5	45%	149	22	24
European Starling	CONF--FY	16.3	70%	957	24	152
Cedar Waxwing	POSS--X	0.7	45%	40	14	9
Ovenbird	POSS--X	2.3	90%	137	28	19
Worm-eating Warbler	CONF--FL	0.1	25%	6	5	2
Louisiana Waterthrush	CONF--FL	0.1	25%	8	8	1
Golden-winged Warbler						
Blue-winged Warbler	ATLAS					
Black-and-white Warbler	CONF--FL	0.5	65%	32	17	7
Prothonotary Warbler	ATLAS					
Kentucky Warbler	POSS--X	0.5	40%	29	14	6
Common Yellowthroat	CONF--FY	3.5	95%	205	30	25
Hooded Warbler	POSS--X	1.9	100%	111	32	8
American Redstart	POSS--X	0.0	5%	2	2	1
Cerulean Warbler						
Northern Parula	POSS--X	0.6	60%	36	21	4
Yellow Warbler	POSS--X	0.1	15%	5	3	2
Chestnut-sided Warbler	PROB--P	0.1	15%	5	3	3
Pine Warbler	POSS--X	1.0	70%	57	21	9
Yellow-throated Warbler	POSS--X	1.1	90%	65	25	8
Prairie Warbler	CONF--FL	3.6	95%	213	30	27
Black-throated Green Warbler	POSS--X	0.1	5%	3	2	2
Yellow-breasted Chat	CONF--FY	4.4	100%	260	31	36
Grasshopper Sparrow	CONF--FY	0.2	25%	11	8	4
Henslow's Sparrow						
Chipping Sparrow	CONF--FY	4.3	100%	250	30	19
Field Sparrow	POSS--X	2.5	85%	145	28	15
Lark Sparrow						
Savannah Sparrow						
Song Sparrow	CONF--FL	2.9	80%	169	25	18
Eastern Towhee	CONF--FY	3.4	95%	197	28	19
Summer Tanager	PROB--P	0.4	35%	22	11	3
Scarlet Tanager	POSS--X	1.4	90%	85	27	9
Northern Cardinal	CONF--FY	4.1	100%	241	30	22
Blue Grosbeak	CONF--FY	2.2	80%	128	25	15
Indigo Bunting	CONF--FL	8.8	100%	515	33	35
Dickcissel	POSS--X	0.1	10%	7	3	5
Red-winged Blackbird	CONF--NY	6.0	75%	350	24	106
Eastern Meadowlark	CONF--NY	3.1	65%	185	20	49
Common Grackle	POSS--X	6.1	55%	356	18	66
Brown-headed Cowbird	CONF--FL	1.9	80%	114	27	23

Species	Breeding Status <sup>1</sup>	Average/ hour <sup>2</sup>	% blocks present <sup>3</sup>	Individuals counted <sup>4</sup>	# blocks present <sup>5</sup> (any block) <sup>6</sup>	Maximum (any block) <sup>6</sup>
Orchard Oriole	CONF--FY	1.1	65%	64	21	12
Baltimore Oriole	POSS--X	0.0	10%	2	2	1
House Finch	CONF--NE	1.3	40%	74	19	14
American Goldfinch	CONF--CN	2.3	95%	138	28	13
House Sparrow	CONF--NY	3.6	45%	214	13	49

<sup>1</sup> See text for codes.

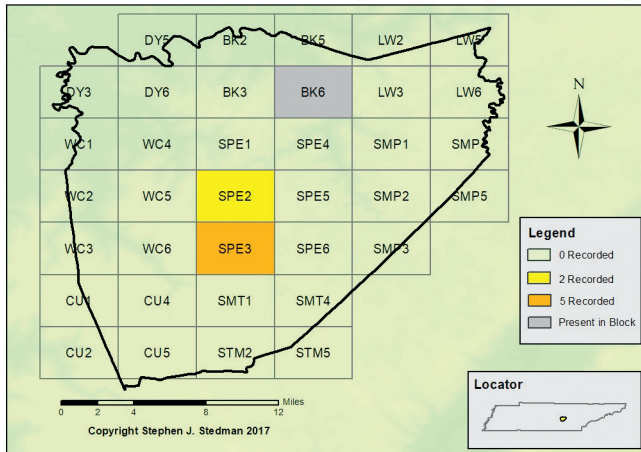
<sup>2</sup> Includes all counting hours. Abundance data for nocturnal species (\*) are based on effort during night counting periods only.

<sup>3</sup> Based on blocks with complete 2- or 3-hr counting periods. Abundance data for nocturnal species (\*) are based on blocks with night counting periods only.

<sup>4</sup> Total individuals counted during all daylight counting periods or night counting periods.

<sup>5</sup> Total number of blocks where found (includes effort conducted in addition to counting periods).

<sup>6</sup> Counting periods only.



**Figure 3. Distribution and abundance of Dickcissel during the 2011 UCR Foray in Van Buren County, TN.**

**Bledsoe County 2012**

Species	Breeding Status <sup>1</sup>	Average/ hour <sup>2</sup>	% blocks present <sup>3</sup>	Individuals counted <sup>4</sup>	# blocks present <sup>5</sup>	Maximum (any block) <sup>6</sup>
Black-bellied Whistling-Duck						
Canada Goose	CONF--FL	1.2	21%	95	8	28
Wood Duck	CONF--FL	0.1	14%	6	6	2
Mallard	CONF--FL	0.0	10%	3	3	1
Northern Bobwhite	PROB-P	0.3	48%	26	19	3
Ruffed Grouse	ATLAS					
Wild Turkey	POSS--X	0.0	7%	4	2	2
Pied-billed Grebe						
Double-crested Cormorant						
Great Blue Heron	POSS--X	0.4	45%	32	19	7
Great Egret	TRANS	0.0	7%	2	2	1
Green Heron	POSS--X	0.2	38%	16	14	2
Black-crowned Night-Heron						
Yellow-crowned Night-Heron						
Black Vulture	POSS--X	0.2	28%	13	11	3
Turkey Vulture	POSS--X	1.1	62%	94	28	9
Osprey						
Golden Eagle						
Northern Harrier						
Sharp-shinned Hawk						
Cooper's Hawk	POSS--X	0.0	10%	4	4	1
Red-shouldered Hawk	POSS--X	0.1	17%	11	13	2
Broad-winged Hawk	PROB--P	0.3	34%	21	19	3
Red-tailed Hawk	CONF--FL	0.2	34%	15	13	2
Killdeer	POSS--X	0.8	52%	64	20	17
peep sp.						
American Woodcock*	ATLAS					
Rock Pigeon	POSS--X	0.4	31%	35	10	11
Eurasian Collared-Dove	PROB--C	0.2	21%	18	6	5
Mourning Dove	POSS--X	4.2	100%	342	43	55
Yellow-billed Cuckoo	POSS--X	0.4	52%	34	29	5
Barn Owl*						
Eastern Screech-Owl*	POSS--X	0.1	3%	1	3	1
Great Horned Owl*	CONF--FL	0.2	6%	2	2	1
Barred Owl*	POSS--X	1.0	24%	10	9	3
Common Nighthawk*	ATLAS					
Chuck-will's-widow*	POSS--X	3.7	41%	37	17	8
Eastern Whip-poor-will*	POSS--X	5.7	59%	57	22	11
Chimney Swift	POSS--X	0.4	41%	35	14	10
Ruby-throated Hummingbird	PROB--C	0.1	21%	7	7	2

Species	Breeding Status <sup>1</sup>	Average/ hour <sup>2</sup>	% blocks present <sup>3</sup>	Individuals counted <sup>4</sup>	# blocks present <sup>5</sup>	Maximum (any block) <sup>6</sup>
Belted Kingfisher	POSS--X	0.0	3%	1	4	1
Red-headed Woodpecker	CONF--FL	0.3	34%	25	17	4
Red-bellied Woodpecker	PROB--P	1.1	97%	90	39	10
Downy Woodpecker	PROB--P	0.7	66%	54	34	5
Hairy Woodpecker	POSS--X	0.1	21%	8	9	2
Northern Flicker	POSS--X	0.3	41%	25	18	3
Pileated Woodpecker	PROB--P	0.2	41%	19	19	4
American Kestrel	CONF--FL	0.4	59%	36	19	4
Eastern Wood-Pewee	POSS--X	1.4	93%	112	41	8
Acadian Flycatcher	POSS--X	0.2	24%	17	12	5
Willow Flycatcher	POSS--X	0.0	3%	1	1	1
Least Flycatcher	ATLAS					
Eastern Phoebe	CONF--FL	0.9	90%	75	35	5
Great Crested Flycatcher	POSS--X	0.4	34%	30	18	4
Eastern Kingbird	PROB--P	1.2	90%	95	38	8
Scissor-tailed Flycatcher	CONF--FL	0.1	10%	7	7	4
Loggerhead Shrike	ATLAS					
White-eyed Vireo	POSS--X	1.1	86%	90	34	11
Yellow-throated Vireo	CONF--FY	0.7	79%	56	36	6
Blue-headed Vireo	POSS--X	0.2	24%	16	13	3
Warbling Vireo						
Red-eyed Vireo	POSS--X	5.5	97%	452	45	36
Blue Jay	POSS--X	1.7	90%	140	42	12
American Crow	POSS--X	5.2	100%	428	46	33
Horned Lark	ATLAS					
Northern Rough-winged Swallow	CONF--FL	0.8	41%	63	17	9
Purple Martin	CONF--ON	2.1	52%	168	26	30
Tree Swallow	CONF--FL	0.4	31%	29	15	6
Barn Swallow	CONF--FL	6.2	100%	505	42	55
Cliff Swallow	CONF--ON	13.4	24%	1099	7	1000
Carolina Chickadee	POSS--X	2.9	100%	233	45	13
Tufted Titmouse	PROB--P	2.4	93%	196	40	15
White-breasted Nuthatch	POSS--X	0.8	69%	68	30	8
Brown-headed Nuthatch	POSS--X	0.0	3%	3	3	2
House Wren	POSS--X	0.1	14%	7	5	3
Carolina Wren	CONF--FL	3.2	100%	264	43	18
Blue-gray Gnatcatcher	POSS--X	1.3	90%	110	40	9
Eastern Bluebird	CONF--FL	3.4	100%	277	41	19
Wood Thrush	POSS--X	0.8	62%	66	31	10
American Robin	CONF--FY	3.7	100%	305	40	36
Gray Catbird	POSS--X	0.1	24%	11	7	3
Brown Thrasher	CONF--FL	0.9	86%	75	33	6

Species	Breeding Status <sup>1</sup>	Average/ hour <sup>2</sup>	% blocks present <sup>3</sup>	Individuals counted <sup>4</sup>	# blocks present <sup>5</sup>	Maximum (any block) <sup>6</sup>
Northern Mockingbird	CONF--FY	4.1	100%	333	39	21
European Starling	CONF--FL	16.5	93%	1347	32	310
Cedar Waxwing	POSS--X	0.3	41%	21	15	4
Ovenbird	POSS--X	1.0	59%	82	27	15
Worm-eating Warbler	POSS--X	0.0	3%	3	1	3
Louisiana Waterthrush	POSS--X	0.0	14%	4	7	1
Golden-winged Warbler						
Blue-winged Warbler						
Black-and-white Warbler	POSS--X	0.1	10%	6	6	3
Prothonotary Warbler	ATLAS					
Kentucky Warbler	POSS--X	0.4	45%	33	21	5
Common Yellowthroat	POSS--X	2.6	100%	215	41	13
Hooded Warbler	POSS--X	0.9	52%	71	28	12
American Redstart	POSS--X	0.0	3%	3	1	3
Cerulean Warbler	POSS--X	0.0	3%	1	1	1
Northern Parula	POSS--X	0.2	31%	18	14	3
Yellow Warbler	ATLAS					
Chestnut-sided Warbler	POSS--X	0.0	3%	1	1	1
Pine Warbler	POSS--X	0.2	24%	20	17	3
Yellow-throated Warbler	POSS--X	1.1	66%	86	32	8
Prairie Warbler	POSS--X	1.0	66%	82	30	8
Black-throated Green Warbler	ATLAS					
Yellow-breasted Chat	POSS--X	2.4	93%	199	42	12
Grasshopper Sparrow	POSS--X	0.4	41%	31	12	5
Henslow's Sparrow	POSS--X	0.0	3%	1	1	1
Chipping Sparrow	CONF--FL	3.9	100%	315	45	30
Field Sparrow	POSS--X	3.4	100%	281	42	19
Lark Sparrow						
Savannah Sparrow	POSS--X	0.0	3%	1	1	1
Song Sparrow	POSS--X	2.4	97%	194	38	14
Eastern Towhee	POSS--X	1.9	97%	153	42	9
Summer Tanager	POSS--X	0.3	38%	23	14	5
Scarlet Tanager	POSS--X	1.4	79%	115	36	11
Northern Cardinal	POSS--X	4.0	100%	324	45	25
Blue Grosbeak	POSS--X	1.6	100%	129	39	8
Indigo Bunting	PROB--P	8.6	100%	702	46	44
Dickcissel	POSS--X	0.3	24%	24	9	9
Red-winged Blackbird	POSS--X	3.3	100%	267	39	35
Eastern Meadowlark	POSS--X	2.8	100%	225	38	18
Common Grackle	CONF--FL	5.2	83%	429	28	300
Brown-headed Cowbird	POSS--X	0.8	76%	64	34	9
Orchard Oriole	PROB--P	0.7	66%	55	24	7



Species	Breeding Status <sup>1</sup>	Average/ hour <sup>2</sup>	% blocks present <sup>3</sup>	Individuals counted <sup>4</sup>	# blocks present <sup>5</sup>	Maximum (any block) <sup>6</sup>
Baltimore Oriole						
House Finch	POSS--X	0.3	28%	26	13	7
American Goldfinch	PROB--P	1.3	86%	109	35	7
House Sparrow	CONF--FL	1.7	66%	138	25	49

<sup>1</sup> See text for codes.

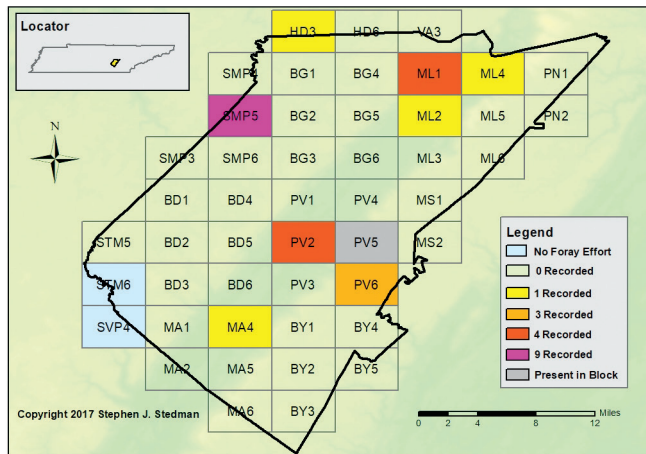
<sup>2</sup> Includes all counting hours. Abundance data for nocturnal species (\*) are based on effort during night counting periods only.

<sup>3</sup> Based on blocks with complete 2- or 3-hr counting periods. Abundance data for nocturnal species (\*) are based on blocks with night counting periods only.

<sup>4</sup> Total individuals counted during all daylight counting periods or night counting periods.

<sup>5</sup> Total number of blocks where found (includes effort conducted in addition to counting periods).

<sup>6</sup> Counting periods only.



**Figure 4. Distribution and abundance of Dickcissel during the 2012 UCR Foray in Bledsoe County, TN.**

## THE 2016 TENNESSEE CHRISTMAS BIRD COUNT SUMMARY

Ron Hoff

Clinton, Tennessee 37716

The 2016 Tennessee Christmas Bird Count (CBC) is the 86<sup>th</sup> count and 73rd consecutive as no count was reported for 1943. A total of 30 counts accounted for a total of 157 species across the state. Four hundred and eighty-seven participants tallied 1412 party hours. Fortunately the weather was not a factor. Temperatures ranged from a chilly 21° F at Roan Mountain and Memphis to a comfortable 76 at Reelfoot Lake.

Count highlights include Trumpeter Swan, Whooping Crane, Little Gull, Long-eared Owl, Ash-throated Flycatcher, Smith's Longspur, and Lark Sparrow.

The following species were recorded in record or unusually high numbers: Ross's Goose, Hooded Merganser, Golden Eagle, Sandhill Crane, Thayer's Gull, Merlin, Winter Wren, Brown Thrasher, Chipping Sparrow, Vesper Sparrow, and Swamp Sparrow.

### COUNT SUMMARIES

cw = count week species (3 days before and 3 days after actual count date,  
but not on count day)

F/Y = feeder/yard watcher

**BIG SANDY – BGSA** (36.34050°, -88.082100°) - 18 December; 0615-1915. Weather: cloudy some snow/ice; wind NW 5-20 mph; 25-28° F. Observers: Joseph Hall, Bill Pulliam (compiler), Cyndi Routledge, Steve Routledge, Chris Sloan, Ruben Stoll, Victor Stoll, and Alan Troyer.

**BRISTOL – BRST** (36.58300°, -82.10000°) – 1 January; 0700-1800. Weather: partly cloudy; wind 0-10 mph; 37-50° F. Observers: Jim Anderson, Rob Biller, Ron Carrico, Angela Cross, Rack Cross, Sam Evans, Kevin Hamed, Chase Harrington, Ron Harrington, Heather Jones, Rick Knight, Phillip Lewis, Richard Lewis (compiler), Larry McDaniel, Rick Phillips, and Michelle Sparks.

**BUFFALO RIVER – BUFF** (35.30000°, -87.46700°) – 14 December; 0610-1730. Weather: partly cloudy; wind N 0-10 mph; 32-48° F. Highlights include Barn Owl, Palm Warbler, and Brewer's Blackbird. Observers: Bernie Fuller, Ann Hartsfield, Tim Hartsfield, Jud Johnston, Rachel Lee, Frances Markine, Gary Markine, Warren Massey, Royce Neidert, Bethany Paluso, Keith Paluso, Bill Pulliam, Polly Rooker, Donette Sellars, Damien Simbeck (co-compiler), Don Simbeck (co-compiler), Ruben Stoll, Victor Stoll, and Jane Worn.

**CADE'S COVE – CADE** (35.60000°, -83.83300°) – 1 January; 0730-1745. Weather: overcast with intermittent light rain; wind WSW 4-23 mph; 39-48° F. Long-eared Owl (first time photographed in the GSMNP) and Merlin were new species. Observers: Jean Alexander, Mark Armstrong, Kat Barrow, Rick Barrow, Warren Bielenberg, Evan Buck, Wanda DeWaard, Daniel Geleynse, Julianne Geleynse, Tom Howe, Susan Hoyle (compiler),

David Johnson, Kristine Johnson, Tony King, Logan Rosenberg, Milly Rosenberg, Martha Rudolph, and June Welch.

**CHATTANOOGA - CHAT** (35.10000°, -85.23300°) – 17 December; 0530-1730. Weather: cloudy with light rain; wind 2-5 mph; 39-50° F. Virginia Rail and Brewer's Blackbird are notable. Observers: David Aborn, Tim Baker, Nelson Bennett, Harold Birch, Gary Brunvoll, Kevin Calhoun (compiler), John Diener, Danny Gaddy, Lizzie Goodrich, William Haley, Kyle Jones, Jonnie Sue Lyons, Mike McMahan, Tommie Rogers, Jeffrey Schaarschmidt, Michael Seeber, David Spicer, Scott Spicer, Luke Thompson, Cynthia Wilkerson, Jimmy Wilkerson, and Dan Williams.

**CLARKSVILLE - CLRK** (36.50000°, -87.38300°) – 17 December; 0700-1700. Weather: partly cloudy; wind S 10-20 mph; 55-73° F. American White Pelican is a new species. Notables are Sandhill Cranes and House Wren. Observers: Jackie Bastin, Suva Bastin, Alan Bottomlee, Elaine Foust, Deborah Hamilton (compiler), Steve Hamilton, Barry Hart, Megan Hart, Gloria Milliken, Daniel Moss, Mackenzie Roeder, Cyndi Routledge, Steve Routledge, Sally Schiller (F/Y), Paul Schwab, and Rick Shipkowski.

Addendum: Last year's count compiler was Deborah Hamilton, not Daniel Moss.

**COOKEVILLE - COOK** (36.15000°, -85.46700°) – 14 December; no times given. Weather: cloudy to partly clear; 32-45° F. Observers: Wally Brines, Daniel L. Combs, Ginger K. Ensor, Janie Finch, Richard Finch, Linda E. Henderson, Edmund K. LeGrand, Ronald J. McDonald, N. P. Mac McWhirter, Susan N. McWhirter, Richard Pirkle, Susan E. Pirollo, and Stephen J. Stedman (compiler).

**CROSSVILLE - CRSS or CROS** (35.86200°, -85.01800°) – 20 December; 0530-1700. Weather: cloudy to clear; wind SSW 0-5 mph; 26-38° F. Greater Scaup and Horned Lark are notable. Observers: Bruce M. Anderson, Merry Anderson, Nan E. Beesley, Ray Bontrager, Daniel L. Combs, Douglas A. Downs, Annell S. Fields, Janie Finch, Ric Finch, Martha K. Hale, Edmund K. LeGrand (compiler), Joseph E. Mast, and Stephen J. Stedman.

**DUCK RIVER - DUCK** (35.53300°, -86.90000°) - 31 December; 0340-1715. Weather: gusty winds, early scattered showers to steady rain; 40-45° F. New species include Tundra Swan, Lesser Black-backed Gull, Thayer's Gull, Osprey, and Lincoln's Sparrow. A Eurasian subspecies of Green-winged Teal was seen during count week. Observers: Chris Agee, Adam Beachy, Evan Beachy, Frieda Beachy, Jubal Beachy, Malon Beachy, Nathan Beachy, Ruthanna Beachy, Seth Beachy, Victor Beachy, Abi Cerniva, Luke Doty, Justin Nation, Bill Pulliam, Caroline Schrock, James Schrock, Leo Schrock, Joshua Stevenson, Ruben Stoll (compiler), Victor Stoll, Judith Swartz, Alan Troyer, Leona Troyer, Chloe Walker, and Nolan Walker.

**ELIZABETHTON - ELIZ** (36.33300°, -82.12300°) – 17 December; 0510-1730. Weather: cloudy to partly cloudy; wind SW 5-20 mph, 35-66° F. Highlights include Red-headed Woodpecker, Pine Warbler, Savannah Sparrow, and Red Crossbill. Observers: Jim

Anderson, Jerry Bevins, Rob Biller, Ron Carrico, Dianne Draper, Harry Lee Farthing, Dave Gardner, Timothy Graham, Don Holt, Dave Kirschke, Rick Knight (compiler), Nicholas Lorch, Vern Maddux, Denee Mattioli, Joe McGuinness, Charles Moore, Avery Myers, Kathy Noblet, Brookie Potter, Jean Potter, Peter Range, Chris Soto, Michele Sparks, Bryan Stevens, and Kim Stroud.

**FAYETTE - FACO** (35.20000°, -89.42000°) – 15 December; 0700-1615. Weather: partly cloudy; wind NE 7-14 mph; 28-36° F. Notable are Barn Owl, Loggerhead Shrike, Blue-headed Vireo, Sedge Wren, and Vesper Sparrow. Observers: Ginny Bell, Judy Dorsey, Kate Gooch (co-compiler), Van Harris, Kay Lait, Gaynell Perry, Dick Preston, Allen Trently, Martha Waldron, and Dick Whittington. Non-participating co-compiler: Fields Falcone.

**FRANKLIN/COFFEE COUNTIES - FRCO** (Highland Rim chapter) (35.30200°, -86.05700°) – 19 December; no times given. Weather: cloudy; 22-30° F. Observers: Dwain Adams, Joyce Adams, Larry Bowers (co-compiler), Jim Harwell (co-compiler), Rachel Harwell, Anna Henry, Janet Hill, Suzanne Huber, Murray King, John Lamb, Laura McCall, Monica Oosting, Polly Rooker, Kraig Smith, Kerry Syler, Marie Syler, and Lisa Trail.

**GREAT SMOKEY MOUNTAINS N. P. - GSMT** (35.71700°, -83.48300°) – 17 December; 0700-1700. Weather: light rain and clearing; 28-50° F. The recent wildfires in the Gatlinburg area and some areas normally covered were closed. Merlin and Sandhill Crane are new species. Ruffed Grouse and Palm Warbler are noteworthy. Observers: Mark Armstrong, Tiffany Beachy, Warren Bielenberg (compiler), Tommy Bird, Daniel Geleynse, Julianne Geleynse, Owain Heyden, Tom Howe, Kristine Johnson, Martina Junod, Grace Keith, Andrea Kupfer, Herb Kupfer, Julie Labhart, Rachel Long, Chris Meters, Hunter Palmer, Logan Rosenberg, Andy Troutman, Debbie Troutman, Jeff Troutman, and Keith Watson.

**HICKORY-PRIEST - HKPR** (36.20000°, -86.66700°) – 31 December; 0500-1630. Weather overcast with periods of sleet and drizzling rain; wind S 5-10 mph; 40-48° F. Common Merganser, Osprey, and Merlin are notable. Observers: Phillip Casteel, Marie Connors, Richard Connors Jackie Corbin, Jerry Drewry, Susan Felts (F/Y), Richard Fox, Tarcila Fox (compiler), Bob Ingle, Ann Inouye, John Kell, Judy Luna, Patrick Miller, Ken Oeser, Sarah Scott, Jan Shaw, Sheila Shay, Mike Smith, and Joe Stone.

**HIWASSEE - HIWA** (35.36700°, -84.90000°) – 1 January; 0645-1800. Weather: cloudy with light rain; 42-48° F. The total for Sandhill Crane is a new state high record. Whooping Crane is notable. Brian Autry, Kerry Autry, Nelson Bennett, Gary Brunvoll, Kevin Calhoon (compiler), Lizzie Denier, John Dever, John Diener, Danny Gaddy, William Haley, Rick Houlik, Laura Lewis, Charles Murray, Tommie Rogers, Susan Schott, David Spicer, Kevin Thompson, Luke Thompson, Jimmy Tucker, Cynthia Wilkerson, Jimmy Wilkerson, and Libby Wolfe.

**JACKSON - JKSN** (35.61700°, -88.81700°) – 2 January; 0645-1700. Weather: cloudy with rain the afternoon; wind SW 15-26 mph; 51-68° F. Greater White-fronted Goose is a

new species. Red-breasted Merganser is notable. Observers: Mark Greene (compiler), Beth Peterson, and Allen Trently.

**KINGSPORT – KGSP** (36.50000°, -82.51370°) - 31 December; 0630-1600. Weather: partly cloudy with light snow; 22-44° F. Observers: Betty Bailey, Gary Bailey, Elizabeth Blakely (F/Y), Rick Blanton, Belinda Bridwell, Angela Cross, Rack Cross, Bambi Fincher, William Grigsby (compiler), Charles Guest (F/Y), Jean Henson, Neal Henson, Mike Hubley, Susan Hubley, Rick Knight, Priscilla Little, Vern Maddux, Joe McGuiness, Rick Phillips, Sherrie Quillen, Nancy Tate, Scott Turner, and Maryanna Wheat.

**KNOXVILLE – KNOX** (35.91700°, -84.08300°) – 31 December; 0500-1820. Weather: light mixed precipitation and rain; wind SW 0-30 mph; 28-48° F. Ross's Goose is a new species. Rufous Hummingbird is notable. Observers: Mark Armstrong, Stephen Lyn Bales, Warren Bielenberg, DeeDee Blane, Gail Clendenen, Steve Clendenen, Marcia Davis, K. Dean Edwards (compiler), Rachel Elliot, Patty Ford, Carole Gobert, Cheryl Greenacre, Dottie Habel, Paul Hartigan, Vickie Henderson, Tom Howe, David Howell, Susan Hoyle, James Human, Tony King, Jerry Ledbetter, Morton Massey, Jennifer Miller, Denise Nauman, Charles P. Nicholson, Joseph Pyle, Kellie Pyle, Talissa Ralph, Martha Rudolph, Michael Ryon, Elizabeth Schilling, Gisele Schoene, Kurt Sickafus, Colin Sumrall, Carolyn Susano, Charles Susano, Robert Terrell, Jimmy Tucker, Merikay Waldvogel, Chris Welsh, Jacob Wessels, Eddy Whitson, Randy Winstead, and Corwin Witt.

**LEBANON – LEBN** (36.19440, -86.38920) - 2 January; 0730-1530. Weather: cloudy to partly cloudy; wind 5 mph; 53-63° F. Least Sandpiper and Lark Sparrow are notable. Observers: Chris Agee, Kenneth Gum, Louann Gum, Justin Nation, Robin Nation, Greg Tomerline, Geri Tomerline, Melissa Turrentine, Roy Turrentine, Josellen Turrentine, and Stephen Zipperer (compiler).

**MEMPHIS – MPHS** (35.15000°, -89.93300°) – 18 December; 0700-1615. Weather: fog to partly cloudy; wind N 5-23 mph; 21-34° F. Highlights include Common Merganser, Blue-headed Vireo, and Lincoln's Sparrow. Observers: David Blaylock, Chad Brown, Michael Collins, Sue Cosmini, Judy Dorsey, Sue Ferguson, Rob Harbin, Van Harris, Margaret Jefferson (compiler), Lisa Jorgensen, Keith Kunkel, George Payne, Dick Preston, Virginia Reynolds, Edwin Thomas, Daniel Twedt, Nitya Vital, Steven Wagner, Jim Waldron, Martha Waldron, and Jay Walko.

**NASHVILLE – NASH**(36.05000°, -86.93300°) – 17 December; 0445-1630. Weather: cloudy with light rain; wind S 10-28 mph; 42-68° F. Rufous Hummingbird, Ash-throated Flycatcher, and House Wren are notable. Observers: Jim Arnett, Kristy Baker, Sandy Bivens, Susan Bradfield, Trae Bradfield, Jean Buchanan, Ed Byrne, Margaret Cameron, Phillip Casteel, Richard Connors, Holly Doss, Michael Doss, Bob English, Pandey English, Francis Fekel, Tarcila Fox, John Froeschauer, Ashley Heeney, Jacqueline Hilario, Susan Hollyday, Kristin Hopkins, Ann Inouye (co-compiler), Dennis Lovell, Judy Luna, Amy Potter, Polly Rooker, Jan Shaw, Kathy Shaw, Sheila Shay, Mike Smith, LinnAnn Welch, Melinda Welton, and Mary Zimmerman. Non-participating co-compiler: Scott Block.

**NICKAJACK LAKE - NKJK** (35.06700°, -85.51700°) – 23 December; 0545-1700. Weather: clear to cloudy; 34-59° F. Red-breasted Merganser and Red-breasted Nuthatch are notable. Observers: Harold Birch, Katherine Boyles, Bruce Dralle, Traci Dralle, Danny Gaddy, William Haley, Halle Henderson, Tommie Rogers, Susan Schott, David Spicer (compiler), Jonathan Spicer, Scott Spicer, Jimmy Wilkerson, and Libby Wolfe.

**NORRIS - NORR** (36.21700°, -84.08300°) - 17 December: no times given. Weather: cloudy with light rain; 38-50° F. Herring Gull and Red-breasted Nuthatch are notable. Observers: Chuck Estes, Lola Estes, Ron Hoff, Susan Hoyle, Tony King, Dollyann Myers, Charles Nicholson (compiler), Martha Rudolph, Doug Schneeberger, and Dan Thomas.

**PERRY COUNTY - PRRY** (35.70800°, -87.77500°) - 24 December; 0650-1800. Weather: heavy rain; 55-59° F. Snow Goose, Common Goldeneye, Least Sandpiper, and Pine Warbler are new species. Observers: Adam Beachy, Chad Beachy, Evan Beachy, Seth Beachy, Abbi Cernava, James Shrock, Leo Shrock, Ruth Shrock, Ruben Stoll (compiler), Victor Stoll, Alan Troyer, Anna Marie Troyer, and Leona Troyer.

**REELFOOT LAKE - REEL** (36.41700°, -89.38300°) – 17 December; 0630-1700. Weather: light rain and scatter thunderstorms; Wind SW 15-25 mph; 46-76° F. The strong storm that came in late in the day brought many count week birds over the next few days. Cackling Goose, Black-crowned Night-Heron, Golden Eagle, Little Gull, Smith's Longspur, White-eyed Vireo, Blue-gray Gnatcatcher, Marsh Wren, Common Yellowthroat, and Le Conte's Sparrow are notable.. Observers: Chris Agee, Jerry Drewry, Bob Foehring, Graham Gerdeman, Mark Greene (compiler), Mark Haas, Joe Hall, Gail King, Chris Sloan, Ruben Stoll, Victor Stoll, Joe Stone, Mike Todd, Allan Trently, Alan Troyer, and Donna Ward.

**ROAN MOUNTAIN - ROAN** (36.10600°, -82.11100°) – 21 December; 0715-1530. Weather: clear to partly cloudy; wind S 0-5 mph; 21-53° F. American Black Duck and Ruby-crowned Kinglet are notable. Observers: Gary Bailey, Al Hooks, Rick Knight (compiler), Brookie Potter, Jean Potter, Judi Sawyer, and Bryan Stevens.

**SAVANNAH - SVNH** (35.13300°, -88.15000°) – 28 December; 0430-1715. Weather: partly cloudy with thunderstorms; wind SW 0-15 mph; 35-61° F. Observers: Evan Buck, Sophie Buck, Jacob Garner, Jeff Garner, Marcus Johnson, Jud Johnston, Frances Markine, Gary Markine, Warren Massey, Savanna Moore, Bill Pulliam, Elizabeth Sherrod, Floyd Sherrod, Damien Simbeck (compiler), Ruben Stoll, and Alan Troyer.

**SHADY VALLEY/MOUNTAIN CITY - SHDV** (36.50000°, -81.85000°) – 26 December; 0600-1700. Weather: clear to cloudy; 39-58° F. Observers: Robert Biller (co-compiler), Ronald Carrico, Harry Lee Farthing, Rick Knight, Richard Lewis. Thomas McNeil (co-compiler).

**WARREN COUNTY - WRRN** (35.66700°, -85.76700°) – 30 December; 0500-1600. Weather: sunny; wind SW 13 mph; 27-46° F. Observers: Judy C. Fuson, Gregg Garrison (compiler) Michael Hawkins, Mac McWhirter, Susan McWhirter, Stephen J. Stedman, and

Carole Williams.

**WHITE COUNTY - WHITE** (35.90800°, -85.59800°) - 17 December; no times given. Weather: rain to partly cloudy; 45-65° F. Blue-winged Teal, Merlin, and 6 Loggerhead Shrikes are notable. Observers: Daniel Combs, Douglas A. Downs (compiler), George Elrod, Janie Finch, Ric Finch, Judy Fuson, Michael Hawkins, Nancy S. Layzer, Edmund K. LeGrand, Allen Nabors, Kathryn Uziel, and Carol D. Williams.





FRCO WRRN WHITE NKJK COOK CHAT CRSS HIWA KNOX NORR CADE GSMT KGSP ELIZ ROAN BSTL SHDV TOTALS  
 19-Dec 30-Dec 17-Dec 23-Dec 14-Dec 17-Dec 20-Dec 1-Jan 31-Dec 17-Dec 1-Jan 17-Dec 31-Dec 17-Dec 21-Dec 1-Jan 26-Dec

-	-	-	-	6	-	-	4	-	-	-	-	-	-	-	-	-	3707
-	-	-	cw	3	23	-	3	-	-	-	-	-	-	-	-	1	5063
-	-	-	-	-	-	-	-	cw	-	-	-	-	-	-	-	-	167
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	316
65	350	227	11	364	416	254	275	1195	237	32	21	292	354	5	584	235	8576
-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
3	14	-	-	11	1	9	1	13	-	1	-	-	1	-	1	1	157
6	-	86	4	23	93	25	70	75	-	7	-	3	8	-	28	-	17127
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	cw
-	-	-	-	2	5	2	-	3	-	-	-	-	2	-	3	-	3541
9	-	6	cw	2	1	16	30	-	-	-	-	-	1	12	-	-	251
47	42	133	14	113	264	398	636	350	58	15	33	201	182	-	208	24	125412
-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
4	-	84	cw	-	14	4	1	14	-	-	-	-	2	-	-	-	1175
-	-	-	-	-	1	-	3	6	-	-	-	-	-	-	1	-	3897
-	-	-	cw	-	9	41	10	1	4	-	-	-	2	-	15	-	4061
-	-	-	113	-	14	45	18	-	-	-	-	-	-	-	-	-	2180
-	-	-	11	-	1	228	8	9	11	-	-	-	cw	-	-	-	305
-	2	4	43	105	9	1210	74	127	-	-	-	7	1	-	18	-	3634
22	-	-	-	-	-	1	-	4	-	-	-	-	2	-	-	-	40
-	-	-	58	-	10	13	1	cw	-	-	-	-	1	-	-	-	1490
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	800
-	-	-	-	-	-	-	-	-	-	-	-	-	cw	-	-	-	cw
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	cw
-	-	-	-	-	-	-	-	-	-	-	-	-	cw	-	-	-	cw
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	cw
9	-	12	87	11	32	631	164	17	2	3	-	70	222	6	171	-	3241
7	-	-	7	2	56	2	-	cw	-	-	-	-	-	-	-	-	635
172	17	123	19	121	17	465	314	19	5	-	-	15	cw	-	185	-	2092
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
-	-	-	3	-	12	3	1	2	-	-	-	-	4	-	-	-	82
-	13	1	7	6	-	210	2	-	1	-	-	-	-	-	3	-	1389
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69
-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36
-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	-	3

Count Names	MPHS	FACO	REEL	JKSN	SVNH	BGSA	DUCK	PRRY	BUFF	CLRK	NSHV	HKPR	LEBN
Wild Turkey	-	-	9	-	152	29	142	44	26	139	60	76	16
Pied-billed Grebe	16	1	81	6	191	180	65	1	33	1	3	82	8
Horned Grebe	-	-	8	-	141	123	8	-	3	-	-	65	-
Red-necked Grebe	-	-	cw	-	-	-	-	-	-	-	-	-	-
Rock Pigeon	552	-	64	222	57	-	76	7	27	171	308	86	72
Eurasian Collared-Dove	35	24	5	2	49	-	4	23	1	1	2	15	2
Mourning Dove	202	171	145	49	297	74	137	175	552	90	86	35	115
Rufous Hummingbird	-	-	-	-	-	-	-	-	-	-	1	-	-
Virginia Rail	-	-	-	-	1	-	-	-	-	-	-	-	-
American Coot	33	-	147	25	1240	178	212	-	1	105	-	239	13
Sandhill Crane	34	-	-	-	273	20	1	-	26	54	-	-	-
Whooping Crane	-	-	-	-	-	-	-	-	-	-	-	-	-
Killdeer	96	54	294	92	347	151	236	39	182	74	29	23	51
Dunlin	-	-	-	-	-	-	-	-	-	-	-	-	-
Least Sandpiper	494	-	-	-	-	-	-	14	-	-	-	-	1
Wilson's Snipe	39	3	42	-	9	3	65	35	21	27	-	-	19
American Woodcock	-	1	2	-	4	3	-	-	3	-	-	1	-
Greater Yellowlegs	-	-	-	-	-	-	-	-	-	-	-	-	-
Lesser Yellowlegs	1	-	-	-	-	-	-	-	-	-	-	-	-
Bonaparte's Gull	3	-	868	-	436	420	654	750	6	cw	-	171	5
Little Gull	-	-	1	-	-	-	-	-	-	-	-	-	-
Laughing Gull	-	-	cw	-	-	-	-	-	-	-	-	-	-
Ring-billed Gull	263	-	2952	-	655	9141	9224	1555	9	158	10	829	58
Herring Gull	-	-	2	-	1	145	17	12	-	cw	-	4	-
Thayer's Gull	-	-	-	-	-	-	2	-	-	-	-	-	-
Lesser Black-backed Gull	-	-	cw	-	-	1	1	-	-	-	-	-	-
Gull sp.	-	-	-	-	-	-	-	-	-	65	-	-	-
Forster's Tern	-	-	1	-	1	-	-	-	-	-	-	-	-
Red-throated Loon	-	-	-	-	-	1	-	-	-	-	-	-	-
Pacific Loon	-	-	cw	-	-	-	-	-	-	-	-	-	-
Common Loon	-	-	1	-	46	82	1	-	-	-	-	90	-
Double-crested Cormorant	2	-	164	-	22	5	1291	18	-	1	-	1	400
American White Pelican	-	-	430	-	46	22	185	-	-	8	-	-	-
Great Blue Heron	26	6	36	8	56	46	112	48	16	14	18	72	51
Great Egret	7	-	cw	-	-	1	3	-	-	-	-	-	-
Black-crowned Night- Heron	-	-	1	-	-	-	4	-	-	-	-	11	-
Black Vulture	6	24	121	34	119	18	1	5	98	280	192	69	515
Turkey Vulture	3	155	71	49	239	20	40	46	234	141	34	3	45
Osprey	-	-	-	-	-	-	1	-	-	-	-	1	-

FRCO	WRRN	WHITE	NKJK	COOK	CHAT	CRSS	HIWA	KNOX	NORR	CADE	GSMT	KGSP	ELIZ	ROAN	BSTL	SHDV	TOTALS
-	43	43	9	67	4	-	7	122	15	137	27	75	114	8	100	-	1464
34	-	5	231	11	372	118	41	97	13	9	-	18	10	1	21	-	1649
16	-	-	8	-	46	6	-	1	16	-	-	1	21	-	73	-	536
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	cw
66	69	345	172	247	1530	41	27	150	242	28	96	288	487	25	658	8	6121
-	-	18	5	6	137	16	-	-	-	-	-	-	11	-	-	-	356
118	93	262	67	205	540	113	175	321	31	57	136	416	251	66	585	130	5694
-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2
-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	3
55	2	-	2792	30	1423	331	66	2563	160	-	-	-	33	-	29	1	9678
1050	cw	44	28	281	-	424	18879	24	-	-	3	-	-	-	-	-	21141
-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1
12	184	83	3	33	37	19	45	59	17	-	13	16	3	-	21	24	2237
-	-	-	-	-	-	-	18	cw	-	-	-	-	-	-	-	-	18
-	-	-	-	-	-	-	32	-	-	-	-	-	-	-	-	-	541
7	-	1	-	1	1	9	28	2-	-	-	-	-	4	-	-	-	314
-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	16
-	-	-	-	-	-	-	-	cw	-	-	-	-	-	-	-	-	cw
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
2	-	-	41	8	90	4	357	1673	-	-	-	-	-	-	4	-	5492
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	cw
72	-	-	1292	45	920	7	401	3253	1409	-	1	413	3	-	832	-	33502
94	-	-	1	-	4	-	-	3	1	-	-	-	-	-	-	-	284
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	cw
14	-	-	5	-	68	1	-	2	-	-	-	5	3	-	1	-	319
32	-	-	104	-	26	-	227	32	-	-	-	28	4	-	-	-	2357
-	-	-	-	-	-	-	55	-	-	-	-	-	-	-	-	-	746
23	9	17	50	13	74	6	102	122	9	4	4	29	26	1	43	2	1043
-	-	-	-	-	2	-	8	4	-	-	-	-	-	-	-	-	25
-	-	-	-	-	-	-	-	7	-	-	4	6	-	-	1	-	34
111	123	75	196	24	243	1	5	27	3	-	-	184	11	-	154	36	2675
68	42	197	69	160	20	38	51	6	20	-	6	92	8	1	62	27	1947
-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	4

Count Names	MPHS	FACO	REEL	JKSN	SVNH	BGSA	DUCK	PRRY	BUFF	CLRK	NSHV	HKPR	LEBN
Bald Eagle	3	2	33	cw	17	30	37	9	5	4	1	2	-
Northern Harrier	-	3	24	1	12	3	18	2	7	1	2	-	1
Sharp-shinned Hawk	1	-	1	-	4	-	4	2	5	4	3	2	-
Cooper's Hawk	4	1	1	-	3	2	6	4	9	2	5	7	1
Accipiter sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Red-shouldered Hawk	8	6	14	11	30	12	17	8	20	5	2	4	5
Red-tailed Hawk	26	17	56	7	39	22	43	23	51	26	39	15	18
Golden Eagle	-	-	1	-	-	4	3	-	-	-	-	-	-
Barn Owl	-	1	1	-	-	-	-	1	2	-	-	-	-
Eastern Screech-Owl	-	-	3	-	7	2	4	2	5	-	3	1	2
Great Horned Owl	-	-	1	1	7	1	1	1	4	-	1	-	3
Barred Owl	1	-	2	1	8	2	1	2	3	1	2	-	1
Long-eared Owl	-	-	-	-	-	-	-	-	-	-	-	-	-
Short-eared Owl	-	-	2	-	1	-	-	-	-	-	-	-	-
Belted Kingfisher	11	5	10	4	13	9	17	11	26	10	7	16	3
Red-headed Woodpecker	3	4	1	-	28	33	16	1	56	1	4	-	1
Red-bellied Woodpecker	64	47	58	18	94	62	83	39	97	80	59	23	22
Yellow-bellied Sapsucker	12	11	13	1	26	28	15	15	18	25	25	11	6
Downy Woodpecker	33	20	34	-	41	43	52	32	42	39	71	13	20
Hairy Woodpecker	1	3	6	1	13	18	24	6	9	10	10	2	1
Northern Flicker	61	14	61	13	74	66	140	46	39	35	28	18	23
Pileated Woodpecker	5	5	20	3	26	23	30	12	38	13	12	4	4
American Kestrel	19	5	41	7	22	14	23	8	88	13	9	7	28
Merlin	1	1	1	-	4	1	-	-	-	-	-	2	-
Peregrine Falcon	-	-	-	-	-	1	2	-	-	-	-	-	-
Eastern Phoebe	15	20	21	2	26	18	35	25	52	13	11	6	2
Ash-throated Flycatcher	-	-	-	-	-	-	-	-	-	-	1	-	-
Loggerhead Shrike	-	2	7	-	-	-	-	-	30	-	-	-	-
White-eyed Vireo	-	-	1	-	-	-	-	-	-	-	-	-	-
Blue-headed Vireo	2	1	-	-	-	-	-	-	-	-	-	-	-
Blue Jay	140	51	36	73	121	141	135	107	311	143	110	71	161
American Crow	29	258	161	122	612	178	357	286	400	260	560	109	194
Fish Crow	-	-	cw	1	-	-	-	-	-	-	-	-	-
Common Raven	-	-	-	-	-	-	-	-	-	-	-	-	-
Horned Lark	25	2	185	3	48	23	-	-	191	-	-	-	-
Carolina Chickadee	35	41	85	35	139	90	123	79	105	130	242	57	66
Black-capped Chickadee	-	-	-	-	-	-	-	-	-	-	-	-	-
Tufted Titmouse	63	53	49	31	143	80	119	102	206	104	135	20	36
Red-breasted Nuthatch	-	1	1	2	-	-	-	-	3	-	3	-	-
White-breasted Nuthatch	16	11	11	3	34	29	31	12	79	43	58	3	7

FRCO	WRRN	WHITE	NKJK	COOK	CHAT	CRSS	HIWA	KNOX	NORR	CADE	GSMT	KGSP	ELIZ	ROAN	BSTL	SHDV	TOTALS
-	1	1	9	-	2	3	37	3	1	2	1	1	4	-	4	-	212
2	4	7	cw	2	-	2	-	-	-	1	-	-	-	-	-	1	93
1	1	2	1	4	2	2	-	6	-	2	2	-	4	-	4	-	57
2	4	2	2	4	2	5	2	5	5	3	1	9	8	1	3	4	107
-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	2
14	5	15	7	12	9	21	5	18	6	11	4	1	-	-	-	3	273
10	32	23	10	22	12	16	9	26	3	3	7	22	13	6	21	11	628
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	6
2	3	1	2	3	3	1	2	2	1	1	-	2	2	-	4	-	58
cw	3	-	3	2	-	-	1	2	-	-	-	2	1	-	5	2	41
1	4	-	-	3	1	3	1	cw	-	1	2	-	2	2	4	1	49
-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
5	10	6	11	13	14	7	13	43	5	14	4	12	21	1	15	7	343
4	3	12	2	24	6	20	-	3	11	3	-	-	2	-	-	-	238
16	30	47	53	73	43	62	37	125	39	50	16	55	47	6	62	9	1516
1	9	6	9	12	15	9	9	32	15	13	13	8	7	1	5	-	370
18	10	14	18	26	36	43	20	87	11	33	11	57	24	7	38	8	901
10	-	5	2	15	6	12	2	7	5	13	4	5	7	-	8	3	208
11	34	35	22	57	27	65	46	56	10	18	11	31	15	-	34	15	1105
4	6	10	20	23	8	32	8	5	7	32	18	17	21	2	23	6	437
44	59	68	5	32	4	32	4	2	3	1	2	13	13	-	23	11	600
-	-	1	-	-	-	-	-	2	-	1	1	-	-	-	1	-	16
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
2	6	12	17	19	9	15	12	10	1	14	15	10	10	1	23	7	429
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
-	1	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
201	243	481	164	479	178	325	231	300	109	71	92	249	212	22	296	61	5314
479	624	636	495	800	217	509	168	1082	209	175	71	344	541	170	510	462	11018
-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	7
-	-	-	-	-	-	-	-	-	-	-	4	3	13	9	3	2	34
-	-	5	-	-	-	2	-	-	-	-	-	-	-	-	-	-	484
8	44	49	107	102	181	213	107	317	84	211	101	136	119	24	144	50	3224
-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1
34	83	50	106	116	104	159	83	261	111	143	75	108	106	17	106	36	2839
-	4	5	1	11	-	2	-	3	1	58	-	1	7	1	8	11	123
3	13	14	25	64	32	91	9	63	41	68	20	32	42	6	57	22	939

Count Names	MPHS	FACO	REEL	JKSN	SVNH	BGSA	DUCK	PRRY	BUFF	CLRK	NSHV	HKPR	LEBN
Brown-headed Nuthatch	-	-	-	-	29	-	-	-	-	-	-	-	-
Brown Creeper	1	5	12	1	12	6	9	4	9	5	5	3	cw
House Wren	-	-	3	-	2	2	3	-	1	1	2	cw	-
Winter Wren	5	15	29	4	11	20	41	11	17	6	12	3	-
Sedge Wren	-	1	-	-	-	-	-	1	-	-	-	-	-
Marsh Wren	-	-	1	-	-	-	-	-	-	-	-	-	-
Carolina Wren	69	22	90	32	140	53	111	53	94	110	130	37	33
Blue-gray Gnatcatcher	-	-	1	-	-	1	-	-	-	-	-	-	-
Golden-crowned Kinglet	23	49	63	56	120	67	66	36	104	41	27	22	6
Ruby-crowned Kinglet	32	15	59	15	71	19	33	26	31	24	16	9	1
Eastern Bluebird	39	96	66	29	213	135	186	107	341	119	75	51	122
Hermit Thrush	32	19	24	5	55	55	37	15	53	3	27	15	2
American Robin	634	42	294	559	1758	233	839	761	732	937	3960	4501	1468
Brown Thrasher	8	9	8	4	14	27	30	19	18	4	3	8	-
Northern Mockingbird	58	18	20	20	78	22	23	36	131	65	47	28	57
European Starling	216	53	8738	570	1088	365	1478	368	1559	1303	3552	6868	4166
House Sparrow	12	-	65	41	35	1	4	379	56	29	55	17	9
American Pipit	-	-	198	4	29	58	30	10	-	-	-	-	-
Cedar Waxwing	72	225	312	61	369	467	933	438	681	1104	1140	527	296
House Finch	82	2	29	27	55	55	87	73	105	87	58	21	19
Purple Finch	5	2	13	4	31	116	4	19	43	6	15	-	27
Red Crossbill	-	-	-	-	-	-	-	-	-	-	-	-	-
Pine Siskin	1	-	-	-	1	-	1	1	4	-	-	-	-
American Goldfinch	101	21	69	19	161	706	130	224	211	122	122	23	49
Lapland Longspur	-	-	32	-	3	3	-	-	-	-	-	-	-
Smith's Longspur	-	-	1	-	-	-	-	-	-	-	-	-	-
Orange-crowned Warbler	4	1	7	-	3	-	1	-	-	-	1	1	-
Common Yellowthroat	-	-	1	-	-	-	-	-	-	-	-	-	-
Palm Warbler	4	-	cw	-	1	4	5	-	3	-	-	-	-
Pine Warbler	1	1	1	3	58	6	2	2	11	1	-	1	-
Yellow-rumped Warbler	152	100	206	33	762	171	295	352	128	93	101	23	27
Eastern Towhee	20	33	17	30	58	77	51	29	128	49	69	14	38
American Tree Sparrow	-	-	1	-	-	-	-	-	-	-	-	-	-
Chipping Sparrow	105	56	20	30	229	115	223	168	229	24	35	-	69
Field Sparrow	28	55	64	19	131	52	111	127	351	30	67	34	55
Vesper Sparrow	5	1	6	-	38	6	16	-	20	-	-	-	-
Lark Sparrow	-	-	-	-	-	-	-	-	-	-	-	-	2
Savannah Sparrow	78	26	109	3	209	61	189	51	113	2	2	-	-
Le Conte's Sparrow	-	-	1	-	-	1	-	-	-	-	-	-	-
Fox Sparrow	42	4	16	10	29	31	24	10	11	2	13	8	-

FRCO	WRRN	WHITE	NKJK	COOK	CHAT	CRSS	HIWA	KNOX	NORR	CADE	GSMT	KGSP	ELIZ	ROAN	BSTL	SHDV	TOTALS
-	-	-	1	5	15	-	7	18	2	1	-	-	-	-	1	-	79
1	2	2	2	6	7	3	2	3	2	13	6	1	-	-	2	-	124
-	-	-	-	2	2	-	-	1	-	-	-	-	-	-	-	-	19
-	4	4	7	19	6	10	2	4	4	20	11	3	8	2	8	5	291
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
6	48	50	70	109	131	80	38	154	66	56	42	98	89	18	92	47	2168
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
2	8	4	24	28	40	39	26	23	12	89	19	9	19	7	35	5	1069
-	4	6	37	12	37	3	21	35	10	6	7	15	3	1	7	-	555
110	140	150	83	123	122	163	136	219	87	57	44	118	177	6	107	67	3488
2	9	4	25	9	13	29	15	31	8	7	7	4	4	-	9	-	518
348	315	576	473	284	772	185	465	3384	204	56	237	277	105	-	208	-	24607
3	10	10	20	14	22	15	10	13	2	-	-	2	-	-	-	-	273
85	83	67	53	72	80	41	54	157	34	7	14	56	43	3	92	8	1552
15420	2224	3329	229	1465	1326	1545	441	1093	344	172	317	1370	819	78	2185	264	62945
25	5	39	7	31	63	86	12	18	9	-	16	39	18	24	46	15	1156
40	-	2	-	-	1	-	18	-	-	-	-	-	-	-	-	-	390
42	173	523	221	569	341	321	249	413	111	285	43	70	272	-	258	-	10516
77	14	13	27	245	120	81	65	152	31	62	29	91	76	6	145	41	1975
23	5	9	2	2	-	2	13	1	67	9	1	-	9	2	cw	-	430
-	-	-	-	-	-	-	-	-	-	30	7	-	7	-	-	-	44
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
279	86	40	49	175	170	179	86	214	90	38	68	99	113	17	104	124	3889
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	4	-	-	2	-	-	-	1	-	-	1	-	26
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
-	1	1	-	2	2	2	-	4	-	-	2	2	-	-	-	-	33
-	-	-	2	1	14	-	5	4	-	-	-	-	3	-	1	-	117
-	44	36	37	81	90	23	121	125	13	22	11	110	58	-	5	9	3228
81	20	31	26	61	93	69	43	117	30	70	18	53	25	-	59	30	1439
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
16	103	136	41	110	25	5	70	29	113	2	3	26	29	-	92	-	2103
53	143	76	51	64	75	84	63	98	38	14	5	49	7	10	11	61	2026
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	92
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
6	12	28	3	8	4	19	43	48	3	3	7	-	1	-	-	6	1034
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2
1	-	2	1	9	6	13	1	5	1	6	7	1	1	2	2	5	263

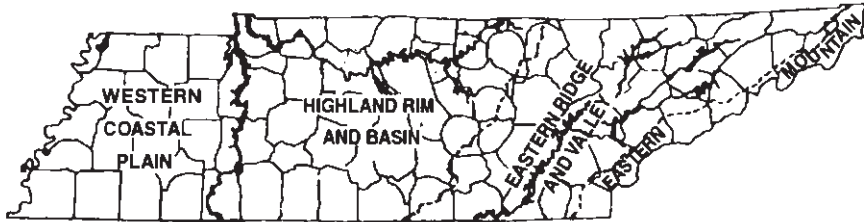
Count Names	MPHS	FACO	REEL	JKSN	SVNH	BGSA	DUCK	PRRY	BUFF	CLRK	NSHV	HKPR	LEBN
Song Sparrow	110	88	124	67	138	148	735	323	142	52	93	40	25
Lincoln's Sparrow	1	-	-	-	-	-	2	-	-	-	-	-	-
Swamp Sparrow	38	18	112	60	261	84	1074	138	81	29	53	19	3
White-throated Sparrow	717	207	206	121	233	676	851	507	350	92	231	112	24
White-crowned Sparrow	42	25	42	11	5	38	12	11	35	2	1	7	3
Dark-eyed Junco	257	151	169	97	245	583	239	198	365	104	30	14	23
Sparrow sp.	-	-	-	-	-	-	-	-	12	-	-	-	-
Northern Cardinal	390	217	182	91	288	430	396	255	238	224	219	143	91
Red-winged Blackbird	45	113	20829	120	225	3261	9788	196	437	231	299	276	755
Eastern Meadowlark	37	108	101	12	201	21	136	104	520	1	-	-	24
Western Meadowlark	-	-	1	-	-	-	-	-	-	-	-	-	-
Rusty Blackbird	176	43	6	45	77	222	1261	8	4	-	4	35	114
Brewer's Blackbird	-	-	9	-	-	-	1	-	9	-	-	-	-
Common Grackle	689	63	2142	511	806	12774	90766	152	263	11	422	351	680
Brown-headed Cowbird	81	44	1140	5	87	772	379	16	9	-	23	-	665
Blackbird sp.	-	1440	-	-	24	300	-	-	50	153	-	-	-
Total individuals	9131	4572	56917	4120	16019	60182	251124	9081	11064	8042	13394	16584	11127
Total Species	95	75	123	72	109	113	117 + 1 ssp.	91	94	77	81	85	75
Count Week species	-	-	15	1	-	-	1 ssp.	-	-	3	4	2	1
Observers	21	10	16	3	16	8	25	13	19	15	33	19	11
Parties	11	5	6--7	3	8	5	-	5	6	6	10--12	5	4
Party Hours	50.4	34.25	60.5	17.5	72.75	48	66.5	38.5	55.5	50.25	65.25	28.5	28.5
Hours by car	15.4	16	20.5	8.5	47	19	31	31	39	31.75	19.5	10	26.25
Hours by foot	35	18.25	40	9	25.75	29	30	7.5	16.5	18.5	45.75	18.5	2.25
Hours by boat or other	-	-	-	-	-	-	5.5	-	-	-	-	-	-
Miles by car	153.8	182	215	150	361.6	187	210	124	334.3	360	202.5	90.3	270.5
Miles on foot	28	18	15.25	8.5	13.8	2	22	13	8.2	13.75	31.5	15	0.5
Miles by boat or other	-	-	-	-	-	-	7	-	-	-	-	-	-
Hours Owling	-	-	1	0.5	2.25	0.25	1.75	0.25	1	-	3.5	2.5	0.5
Miles Owling	-	-	15	5	24.9	2	6	0.5	5.1	-	12.55	-	0.5
Feeder / yard watchers	2	-	-	1	-	-	-	-	-	1	-	1	-
Feeder / yard hours	1.5	-	-	1	-	-	-	-	-	2	-	1.5	-



FRCO	WRRN	WHITE	NKJK	COOK	CHAT	CRSS	HIWA	KNOX	NORR	CADE	GSMT	KGSP	ELIZ	ROAN	BSTL	SHDV	TOTALS
84	111	74	66	152	111	160	120	141	51	115	117	187	71	55	125	206	4031
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
-	10	14	8	51	33	20	55	26	1	8	17	24	2	-	1	9	2249
32	29	100	95	172	181	109	111	237	69	152	90	197	58	8	134	56	6157
-	11	40	14	12	-	6	10	6	-	-	-	16	-	-	43	26	418
18	52	63	59	120	40	172	66	93	67	121	59	31	135	68	77	48	3764
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
145	115	114	139	181	210	261	177	292	79	88	97	176	96	12	201	66	5613
399	108	657	173	220	274	1	36	90	2	30	-	190	-	-	1	-	38756
65	63	41	2	89	2	80	49	59	6	-	-	6	-	-	1	26	1754
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
69	75	74	12	150	90	-	150	7	-	-	-	-	-	-	-	-	2622
-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	20
103	71	222	6	233	585	11	3	1	-	-	-	-	-	-	-	-	110865
33	5	7	-	35	10	20	-	22	-	18	21	-	-	-	-	-	3392
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1967
20560	6347	9825	8606	8740	12546	10180	25731	20108	4488		2143	6599	5261	720	9257	2344	624812
78	73	82	86	89	97	92	94	98	70		64	72	80	42	81	52	157
1	1	-	5	-	-	-	-	6	-		-	-	4	-	1	-	8
17	7	11	14	13	22	12	22	44	10	14	22	19	24	6	16	5	487
-	4	-	5	-	9	4--6	8	19--20	-	7	10	9	6	2	6	3	127
19.81	34.55	48.75	42.75	62.75	71	56.5	45	100.3	30.7	45.3	46.5	50.25	46	15.5	54	26	1412.06
-	31.65	-	20.25	-	43	37.75	26	31.08	-	10.15	18	25.5	-	-	25.5	13	596.78
-	2.9	-	22.5	-	28	18.75	17	64.77	-	35.15	28.5	24.75	-	-	28.5	13	579.82
-	-	-	-	-	-	-	2	1.07	-	-	-	-	-	-	-	-	8.57
-	342.75	-	307	-	353	309.5	268	316.1	-	96.6	161	184	-	-	366	144.75	689.65
-	2.45	-	11	-	23	12.25	16	58.2	-	34.4	25.2	16.4	-	-	10.5	12	410.9
-	-	-	-	-	-	-	10	2.7	-	-	-	-	-	-	-	-	19.7
-	1.5	-	1.2	-	7	1.75	1	3.38	-	-	-	0.5	4.5	0.25	3.25	1.5	39.33
-	8.5	-	10	-	31	11.5	13	3.3	-	-	-	2	-	-	27	19.2	197.05
-	-	-	-	-	-	1	1	7	-	2	1	2	-	1	-	-	20
-	-	-	-	-	-	5	5	14.35	-	4	4	3	3	1	-	-	45.35

## THE FALL SEASON

Richard L. Knight, Editor



1 August - 30 November 2016

The weather this autumn was hot and dry, continuing trends from the summer. Above-average temperatures were recorded each month and below-average rainfall was experienced for at least three months in every region. It was so dry that much of the state fell into moderate to exceptional drought categories.

Three species new to Tennessee were found this autumn by alert birders: a Brown Booby at Duck River Unit, a Northern Wheatear in Loudon County, and a Bohemian Waxwing in Knoxville.

Waterfowl highlights included a Eurasian Wigeon and multiple reports of Surf and Black Scoters. A Neotropic Cormorant and a Roseate Spoonbill were found in West Tennessee, while a Wood Stork occurred in the Ridge and Valley. There were nine reports of White Ibis and two of unidentified dark ibises (*Plegadis* sp.). Shorebird highlights included Marbled Godwits at three sites, a Red Phalarope, and multiple reports of American Avocets, Willets, and Buff-breasted Sandpipers. Individual Pomarine and Parasitic Jaegers, as well as two Sabine's Gulls, appeared in the Western Coastal Plain. Six reports of Swallow-tailed Kites this fall, plus another in July, were the most in any modern year. Mississippi Kites made an excellent showing in East and Middle Tennessee, where sightings have been on the increase. Passerine highlights included Smith's Longspur, Snow Bunting, Clay-colored and Nelson's Sparrows, Black-headed Grosbeak, and Western Meadowlark. Boreal irruptives were represented by modest numbers of Red-breasted Nuthatches and Purple Finches scattered statewide.

The totals for two East Tennessee hawkwatches are presented in Table 1. Data for Soddy Mountain in Hamilton County was compiled by Jimmy Wilkerson, and data for Big Bald Mountain in Unicoi County was compiled by Mark Hopey. In addition, the reports for three banding stations are presented in the Eastern Mountain Region.

The "Fifty-seventh Supplement to the A.O.U. Check-list of North American Birds" (Chesser et al., *Auk* 133:544-560), published July 2016, brought sweeping changes to the sequence of non-passerine birds. It will take some time for most of us to adjust to these changes, as the deck has really been reshuffled. Few changes were made to the sequence of passerines, although the finches were moved from near the end of the checklist to a position

between pipits and longspurs. These changes in sequence have been incorporated into this report.

### Standard Abbreviations

ad - adult	lrs - latest reported sighting
ba - banded	max - maximum count
Co - County	m.ob. - many observers
Cr - Creek	Mtn - Mountain
ers - earliest reported sighting	NWR - National Wildlife Refuge
et al. - and others	R - River
fide - reported by	SP - State Park
im - immature	WMA - Wildlife Management Area
L - Lake	yg - young

**Table 1.** Fall hawkwatch totals for Soddy Mountain and Big Bald Mountain in 2016.

<u>Species</u>	<u>Soddy Mtn</u>	<u>Big Bald Mtn</u>
Black Vulture	38	5
Turkey Vulture	413	217
Osprey	14	9
Bald Eagle	35	13
Northern Harrier	13	20
Sharp-shinned Hawk	110	351
Cooper's Hawk	13	47
Red-shouldered Hawk	13	16
Broad-winged Hawk	1408	686
Red-tailed Hawk	53	148
Golden Eagle	-	2
American Kestrel	21	39
Merlin	3	34
Peregrine Falcon	7	3
unknown	1	44
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Total vultures	451	222
Total hawks and falcons	1691	1412

WESTERN COASTAL PLAIN REGION - - High temperatures and drought describe weather conditions across most of the region this fall. Only August had an above average amount of rainfall, while the September through November period saw a cumulative deficit

of 8 inches below normal. Many lakes and ponds were reduced to little more than mud puddles. Monthly mean temperatures were higher during all four months, with October readings averaging 6.6 degrees above normal. We seem to have entered an era of a new "normal".

Birding highlights included a Parasitic Jaeger in Gibson County, a lingering Pomarine Jaeger in Henry County, single Sabine's Gulls in Lake and Henry counties, a Neotropical Cormorant in Lake County, and single Swallow-tailed Kites in Gibson and Madison counties. A number of sparrows uncommon to rare in the region were reported. A Henslow's Sparrow was found at Hatchie National Wildlife Refuge, while both Le Conte's and Nelson's Sparrows occurred in the northern part of the region. A Swamp Sparrow in late August in Shelby County was an extremely early arrival.

Irruptive species were a mixed bag. Red-breasted Nuthatches were widely reported, although in small numbers overall. Purple Finch numbers were rapidly increasing at the end of the period, but Pine Siskins were still scarce. An American Tree Sparrow in Lake County on the last day of November was a nice find.

Thanks to all who reported their sightings and especially those who submitted photographs or written details.

*Waterfowl - Crane:* **Black-bellied Whistling-Duck:** 27 Aug (169) TVA Lake (RS, AT), max; 4 Sep (brood of 11 small yg) Ensley (DDP), late breeding. **Greater White-fronted Goose:** 18 Oct (7) Tiptonville Bar (MAG), ers. **Ross's Goose:** 29 Nov (1) Pickwick L (Mark Taylor, photo); 29 Nov (1) Eagle Cr, Henry Co (RS, VS); 30 Nov (3) Tiptonville, Lake Co (MAG); 30 Nov (12) Reelfoot L (RS, VS). **Redhead:** 20 Oct (1) Pace Point (RS), ers. **Greater Scaup:** 22 Oct (2) Pace Point (VS, AT), ers. **Lesser Scaup:** 8 Nov (10,500) Reelfoot L, Obion Co portion (MAG), max. **Surf Scoter:** 20 Oct (2) Pace Point (RS); 24-25 Oct (1) Carroll Co L (MCT). **Black Scoter:** 9-29 Nov (4-1) Pickwick L (RS, m.ob.); 9 / 24 Nov (1) Paris Landing (RS); 10 Nov (1) Reelfoot L (MAG); **Pied-billed Grebe:** 9 Nov (875) Pickwick L (RS), new high count in state. **Yellow-billed Cuckoo:** 3 Nov (1) Pace Point (RS), lrs. **Sandhill Crane:** 22 Nov (26) Obion Co (MAG); 24 Nov (32) Britton Ford (RS, VS, AT); 30 Nov (140) Hop-In Refuge, Obion Co (RS, VS).

*Shorebirds:* **Black-necked Stilt:** 31 Oct (1) Ensley (Bob Zaremba), lrs. **American Avocet:** 20 Aug / 25 Sep / 31 Oct (1) Ensley (RH / John Munro / Bob Zaremba); 6 Oct (1) Big Sandy flats (RS); 26-27 Oct (3) Gibson Co L (MAG). **Black-bellied Plover:** 19 Aug - 3 Sep (1) Ensley (RS, VS, m.ob.); 15 / 22 Oct (2 / 1) Lick Cr (RS / VS, AT); 14 Oct (1) Ensley (Roseanna Denton). **American Golden-Plover:** 27 Aug - 3 Sep (1-2) Ensley (RS, AT, m.ob.); 26 Sep (1) Big Sandy flats (RS). **Semipalmated Plover:** 29 Oct (1) Pace Point (RS), lrs. **Upland Sandpiper:** 1 Aug (1) Phillipy Pits, Lake Co (MAG). **Ruddy Turnstone:** 1 Aug (1) Fritz Landing, Lake Co (MAG). **Sanderling:** 8 Aug / 27 Aug / 25 Sep (1) Ensley (DDP / RS, AT / John Munro); 3 Sep (4) Tiptonville Bar (MAG, m.ob.). **Dunlin:** 26 Oct (1) Gibson Co L (MAG); 27 Oct (3) Eagle Cr, Henry Co (RS); 29 Oct (1) Pace Point (RS); 31 Oct / 18 Nov (3 / 1) Ensley (Bob Zaremba / RS).

**Baird's Sandpiper:** 8 Aug (1) Coon Valley Rd, Tipton Co (DDP); 3 Sep (2) Lake Co

(MAG, m.ob.); 3 Sep (1) Ensley (DDP, MCT, m.ob.). **White-rumped Sandpiper:** 21 Sep (2) Ensley (DDP, RH). **Buff-breasted Sandpiper:** 3 Sep (1) Ensley (DDP, MCT, m.ob.); 13 Sep (2) Gibson Co, at a sod farm (MAG). **Semipalmated Sandpiper:** 20 Aug (465) Ensley (RS, VS), max. **Western Sandpiper:** 19-20 Aug (45+) Ensley (RS, VS), max. **Short-billed Dowitcher:** 1 Aug (1) Ensley (DDP). **Long-billed Dowitcher:** 27 Aug (1) TVA Lake (DDP); 14 Oct (36) Ensley (Roseanna Denton); 19 Oct (3) Gibson Co L (MAG); 20 Oct (1) Pace Point (RS). **Willet:** 19-22 Aug (1) Ensley (RS, VS, m.ob.). **Wilson's Phalarope:** 20 Aug (2) Ensley (Bob Foehring).

*Jaeger - Tern:* **Pomarine Jaeger:** from 30 Jul thru 2 Aug (1 sub-adult) Paris Landing (RS, m.ob.), 8th state record. **Parasitic Jaeger:** 9 Sep (1 im, light morph) Gibson Co Lake (MAG), 7th state record. **Sabine's Gull:** 5 Oct (1 im) Big Sandy flats (RS); 5 Oct (1 im) Tiptonville Bar (MAG); 13th and 14th state records. **Laughing Gull:** 31 Aug - 3 Nov (4-1) Pace Point (RS). **Franklin's Gull:** 27-28 Sep (1) Reelfoot L (MAG); 29 Oct / 3 Nov (7 / 12) Pace Point (RS); 29 Nov (1) Reelfoot L, Obion Co (RS, VS). **Ring-billed Gull:** 4 Sep (950) Pace Point (RS), good number this early. **Lesser Black-backed Gull:** 4 / 21 Sep (1 / 11) Paris Landing (RS), ers / max; 5 Oct (1 im) Reelfoot L (MAG). **Least Tern:** 6 Oct (10) Pace Point (RS), quite late. **Caspian Tern:** 31 Aug (80+) Pace Point (RS), max. **Black Tern:** 20 Aug (63) Ensley (RS, VS); 30 Aug (18) Pace Point (RS); 3 Sep (20) Tiptonville Bar (MAG, m.ob.); 9 Sep (9) Gibson Co Lake (MAG). **Common Tern:** 31 Aug (52) Pace Point (RS), max; 9 Sep (3) Gibson Co L (MAG); 6 Oct (1) Paris Landing (RS), lrs.

*Loon - Falcon:* **Red-throated Loon:** 24 / 29 Nov (1 ad) Paris Landing / Pace Point (RS, VS, AT); 27 Nov (2 im) Pickwick L (RS, VS). **Pacific Loon:** 24 Nov (1) Britton Ford (RS, VS, AT). **Common Loon:** 28 Sep (1) Halle Park, Shelby Co (RH), ers. **NEOTROPIC CORMORANT:** 27 Sep (1 ad) Levee Rd, Lake Co (MAG, photo). **American White Pelican:** 26 Sep (825) Big Sandy flats, Henry Co (RS); 18 Oct (3500+) Tiptonville Bar (MAG). **Tricolored Heron:** 19-22 Aug (1 im) TVA Lake (RH, Hal Mitchell, m.ob.); 23 Aug (1 im) Shelby Farms (Martha Waldron); probably the same bird. **Cattle Egret:** 3 Nov (2) Britton Ford (Robert Wheat, lrs. *Plegadis* sp.: 3 Sep (3) Ensley (RS, VS, MCT). **Roseate Spoonbill:** 21 Aug (1) TVA Lake (DDP). **Swallow-tailed Kite:** 18 Aug (1) Madison Co (MAG); 25 Aug (1) Humbolt, Gibson Co (MAG). **Mississippi Kite:** 21 Aug (11) Camden WMA, Benton Co (RS, AT). **Bald Eagle:** 7 Oct (1 ad) Herb Parson's L, Fayette Co (Ginny Bell fide Martha Waldron). **Golden Eagle:** 11 Oct - 12 Nov (1 ad) Bennett's Cr Overlook (RS, m.ob.). **Long-eared Owl:** 30 Nov (1) Obion Co (RS, VS). **Merlin:** 28 Sep (1) Lake Co (VS); 13 Oct (1) Tiptonville, Lake Co (Roseanna Denton); 15 Oct / 29 Nov (1) Pace Point (RS); 15 Oct (1) Britton Ford (RS); 20 Oct / 29 Nov (1) Lick Cr (RS); 25 Oct (1) Carroll Co (VS). **Peregrine Falcon:** 21 Aug / 3 Sep (1) Ensley (DDP, m.ob.); 26 Sep (1) Big Sandy flats (RS); 11 Oct (1) Lick Cr (RS); 27 Oct / 9 Nov (2 / 1) Paris Landing (RS); 29 Oct (1) Britton Ford (DDP).

*Flycatcher - Longspur:* **Olive-sided Flycatcher:** 22 Aug (1) Shelby Farms (Jim Varner, photo); 31 Aug (1) Coon Valley Rd, Tipton Co (DDP). **Yellow-bellied Flycatcher:** 30 Aug (1) Millington, Shelby Co (Van Harris); 17 Sep (1) Shelby Farms (DDP); 11 Oct (1) Pace

Point (RS). **Alder Flycatcher**: 6 Sep (2) Ensley (Hal Mitchell), identified by call. **Western Kingbird**: 17 Aug (1) Bungie Rd, Dyer Co (MAG); 20 Aug (4) North Treatment Plant, Shelby Co (RS, VS), lrs. **Fish Crow**: 23 Oct (21) Pickwick L (RS); 27 Oct (1) Britton Ford (RS); 26 Nov (5) Gibson Co (MAG). **Barn Swallow**: 18 / 24 Nov (1) Britton Ford (Stefan Woltmann / RS, VS, AT); 30 Nov (1) Reelfoot L (RS, VS); lrs. **Red-breasted Nuthatch**: 28 Sep (1) Halle Park, Shelby Co (RH), ers. **Sedge Wren**: 26 Sep (1) Parker Branch WMA, Gibson Co (MAG); 15 Oct (1) Bennett's Cr Overlook (RS); 22 Nov (1) Thorny Cypress WMA, Dyer Co (MAG). **Blue-gray Gnatcatcher**: 15 Oct (1) Collierville, Shelby Co (DDP, m.ob.), lrs. **Swainson's Thrush**: 31 Aug / 27 Oct (1) Pace Point (RS), ers / lrs. **Cedar Waxwing**: 30 Nov (1500) Reelfoot L (RS, VS), max. **Pine Siskin**: 27 Oct (4) Pace Point (RS); 18 Nov (2) Ensley (VS, RS). **Lapland Longspur**: 30 Nov (2800) Hwy 45W, Obion Co (RS, VS). **Smith's Longspur**: 30 Nov (1) Cates Landing Rd, Lake Co (RS, VS / MAG).

*Warbler - Oriole*: **Worm-eating Warbler**: 15 Oct (1) Collierville, Shelby Co (DDP, m.ob.), lrs. **Golden-winged Warbler**: 19 Sep (1) Hatchie NWR, Haywood Co (DDP, RH); 24 Sep (1) Fayette Co (DDP, RH); 26 Sep (1) Gibson Co (MAG); 28 Sep (1) Peterson L, Shelby Co (RH); 5 Oct (2) Pace Point (RS). **Tennessee Warbler**: 3 Nov (1) Shelby Co (RH), lrs. **Orange-crowned Warbler**: 5 Oct (1) Britton Ford (RS), ers. **American Redstart**: 19 Oct (1) Britton Ford (Bill Lisowsky), lrs. **Cape May Warbler**: 25 Sep (1) Shelby Forest, Shelby Co (DDP). **Northern Parula**: 27 Oct (1) Britton Ford (RS), lrs. **Bay-breasted Warbler**: 11 Oct (47) Pace Point (RS), max. **Blackpoll Warbler**: 11 Oct (1) Pace Point (RS), rare in fall. **Black-throated Green Warbler**: 3 Nov (1) Shelby Co (RH), lrs. **Wilson's Warbler**: 20 Oct (1) Shelby Co (RH), lrs. **American Tree Sparrow**: 30 Nov (1) Reelfoot L (RS, VS). **Lark Sparrow**: 22 Aug (1) Shelby Farms (Jim Varner). **Henslow's Sparrow**: 25 / 27 Nov (1) Hatchie NWR, Haywood Co (RH, Allan Trently, Larry Chitwood / DDP). **Le Conte's Sparrow**: 22 Oct - 12 Nov (1-3) Bennett's Cr Overlook (AT, VS, RS); 27 Oct (1) Britton Ford (RS); 22 Nov (6) Bogota WMA, Dyer Co (MAG). **Nelson's Sparrow**: 27-29 Oct (1) Bennett's Cr Overlook (RS). **Lincoln's Sparrow**: 26 Sep (1) Gibson Co (MAG); 14 Oct (2) Lauderdale Co (Roseanna Denton); 20 Oct (3) Pace Point (RS). **Swamp Sparrow**: 22 Aug (1) Ensley (DDP), very early. **Dickcissel**: 27 Oct (1) Britton Ford (RS), lrs. **Western Meadowlark**: 8 Nov (4-5) Garrett Sawmill Rd, Obion Co (MAG). **Orchard Oriole**: 1 Sep (2) Pace Point (DDP), lrs. **Baltimore Oriole**: 16 Oct (1) Shelby Farms (Jim Varner), lrs.

*Locations*: Bennett's Cr Overlook - within Big Sandy Unit of Tennessee NWR, Henry Co; Big Sandy flats - Henry Co; Britton Ford - Henry Co; Ensley - Shelby Co; Lick Cr - Benton Co; Pace Point - Henry Co; Paris Landing SP - Henry Co; Pickwick L - Hardin Co; Reelfoot L - Lake Co (unless specified otherwise); Shelby Farms - Shelby Co; Tiptonville Bar - Lake Co; TVA Lake - Shelby Co.

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HIGHLAND RIM AND BASIN REGION - - Fall in Middle Tennessee found most of the region in moderate to severe drought, with the most severe conditions occurring in the south and east portions of the region. August had 22 days of 90 degrees or higher with overall temperatures averaging 2.9 degrees above normal. September brought 16 days of 90 degree heat with temperatures that were 4.5 degrees above normal. October and November continued the warm temperatures at 7.4 degrees and 5.5 degrees above normal, respectively. August was the only month with above average rainfall, at 3.2 inches above normal, but this was limited to the northern part of the region. The rest of the season saw precipitation at below normal levels: September (-1.5 inches), October (-2.6 inches), and November (-2.4 inches).

Birding highlights this fall were Brown Booby (first state record), Eurasian Wigeon, White Ibis, and Black-headed Grosbeak.

*Goose - Crane:* **Greater White-fronted Goose:** 13 Oct (135) Duck R Unit (MCT, RS, VS), ers. **Snow Goose:** 25 Nov (1) Drake's Cr, Sumner Co (MS). **Cackling Goose:** 12 Nov (30) Duck R Unit (RS). **Eurasian Wigeon:** 25-26 Nov (1 male) Duck R Unit (RS, VS, m.ob.). **Blue-winged Teal:** 12 Sep (100) Warren Co (SNM). **Surf Scoter:** 25 Nov (1) Duck R Unit (RS, VS). **Black Scoter:** 13 Nov (1) Old Hickory L, Sumner Co portion (MS). **Northern Bobwhite:** 24 Oct (36) Fort Campbell (DMo), good population remaining at this site. **Horned Grebe:** 30 Sep (1) Edgar Evins SP, DeKalb Co (Mark Taylor), ers. **Yellow-billed Cuckoo:** 2 Nov (1) Bell's Bend (FF); 5 Nov (2) Duck R Unit (RS), lrs. **Black-billed Cuckoo:** 4 Sep (1) Hendersonville, Sumner Co (MS); 24 Sep (2) Radnor L (MJW); 30 Sep (1) David Crockett SP, Lawrence Co (DDP). **Chimney Swift:** 18 Oct (1600, at roost) Davidson Co (MJW), good number this late, none at same site on 21 Oct. **Rufous Hummingbird:** 30 Sep (1) Williamson Co (Graham Gerdeman). **Virginia Rail:** 8 Oct (1, road kill) DeKalb Co (Carol Williams). **Sora:** 8 Aug (1) Duck R Unit (Clayton Ferrell), ers. **Sandhill Crane:** 25 Oct (2) Robertson Co (RS), ers; 17 Nov (2) Hardin Co (Bob Ingle); 25 Nov (29) Perry Co (RS, VS).

*Shorebirds:* **American Avocet:** 21 Aug / 6 Oct (3 / 1) Duck R Unit (RS, AT); 30 Sep - 2 Oct (1) Boiling Pond (Doug Downs, m.ob.). **Black-bellied Plover:** 7 / 10 Sep (1) Duck R Unit (RS); 28 Oct (1) Perry Co (RS), first Co record. **American Golden-Plover:** 22 Aug (1) Eagleville sod farm (Justin Hiltner, SZ); 26 Aug / 8 Sep (5 / 1) Bark Camp Barrens sod farm (SNM); 6-10 Sep / 5 Nov (1-2) Duck R Unit (RS). **Upland Sandpiper:** 4 / 13 Aug (1) Cross Cr NWR (JH, Sharon Arnold); 21 / 27-28 Aug (3 / 1) Eagleville sod farm (CW, m.ob. / CA, SZ). **Marbled Godwit:** 28 Aug / 5 Sep (1) Duck R Unit (RS / AT). **Stilt Sandpiper:** 9 Sep (2) marsh on Walter S. Davis Blvd., Nashville (FF, m.ob.); 10 Sep (32) Duck R Unit (RS), max. **Sanderling:** 27-28 Aug (1) Old Hickory L (MS, PDC, m.ob.); 6 / 10 Sep (5 / 4) Duck R Unit (RS). **Dunlin:** 20 Oct / 12 Nov (4 / 34) Duck R Unit (RS), ers / max; 30 Nov (1) Bark Camp Barrens sod farm (SNM). **Baird's Sandpiper:** 30 Aug (1) Duck R Unit (RS). **White-rumped Sandpiper:** 6 Aug (2) Cross Cr NWR (JH). **Buff-breasted Sandpiper:** 27-29 Aug / 11-12 Sep (2 / 3) Eagleville sod farm (Matt Erickson, CA, SZ, m.ob.); 1-20 Sep (1-2) Bell's Bend (FF, m.ob.); 3-17 Sep (2-7) Bark Camp Barrens sod farm (SNM); 5-7 Sep (2) Duck R Unit

(AT, RS); 8-9 Sep (2) marsh on Walter S. Davis Blvd., Nashville (FF, m.ob.); 18 Sep (2) Old Hickory Blvd sod farm, Davidson Co (MS). **Western Sandpiper**: 30 Aug (6) Duck R Unit (RS). **Long-billed Dowitcher**: 6 Oct (1) Duck R Unit (RS). **Greater Yellowlegs**: 26 Nov (8) Duck R Unit (RS), Irs. **Willet**: 27-28 Aug (3-4) Duck R Unit (RS, AT); 8-18 Sep (2-1) marsh on Walter S. Davis Blvd, Nashville (FF, m.ob.). **Lesser Yellowlegs**: 4 Nov (1) marsh on Walter S. Davis Blvd., Nashville (FF), Irs. **Wilson's Phalarope**: 13 Aug (2) Cross Cr NWR (JH, Sharon Arnold); 6 Sep (1) Duck R Unit (RS).

*Gull - Ibis*: **Laughing Gull**: 30 Aug / 21 Nov (1) Duck R Unit (RS); 6 Sep (1) Edgar Evins SP (Holly Taylor). **Lesser Black-backed Gull**: 6 Sep (1 ad) Duck R Unit (RS). **Least Tern**: 10 Sep (1) Duck R Unit (RS, AT, photo). **Caspian Tern**: 21 Aug (40) Duck R Unit (RS, AT), max. **Black Tern**: 15 Aug (5) Normandy L, Coffee Co (SZ); 15 Aug (6) Woods Reservoir, Franklin Co (SZ); 21 Aug (18) Duck R Unit (RS, AT); 27 Aug / 10 Sep (5) Old Hickory L (JKS, Richard Connors / PDC, FF, MS); 9 Sep (4) Edgar Evins SP (Mark Taylor); 11 Sep (14) Kentucky L, Houston Co (VS, RS). **Forster's Tern**: 29 Nov (1) Old Hickory L (Justin Hiltner), Irs. **BROWN BOOBY**: 20-21 Oct (1 im) Duck R Unit (RS / VS, MM, AT, SZ, Jack Zipperer), 1st state record. **American White Pelican**: 30 Aug / 6 Oct (42 / 285) Duck R Unit (RS); 18 Nov (9) Percy Priest L, Rutherford Co (John Foster). **American Bittern**: 22 Aug (1) Montgomery Co (JH). **Snowy Egret**: 14 / 18 Aug (4 / 2) Cowan Marsh, Franklin Co (Martin Hall / SZ); 21 Aug (1) Shelby Bottoms (Jim Arnett). **Little Blue Heron**: 3-13 Aug (2-8 im) White Co (Michele Ramsey, SZ, CA); 13 / 21 Aug (1 ad, 1 im / 4 im) Shelby Bottoms (MS / Jim Arnett); 14 Aug (5) Cowan Marsh, Franklin Co (Martin Hall); 20 Aug (10) Perry Co (RS); 22 Aug / 6 Sep (1 / 2) Fort Campbell (DMo); 29 Aug (4) Fort Campbell, Stewart Co portion (DMo). **Cattle Egret**: 5 Nov (1) Duck R Unit (RS), Irs. **Yellow-crowned Night-Heron**: 20 Aug (1) marsh on Walter S. Davis Blvd, Nashville (Jim Arnett). **White Ibis**: 6 Aug - 2 Oct (1 im) Boiling Pond (Doug Downs, m.ob.); 7 Aug (1 im) Calfkiller R, White Co (photo fide Charles Nicholson); 9 Sep (1 im) Duck R Unit (Clayton Ferrell). **Plegadis sp.**: 6 Oct (1) Duck R Unit (RS).

*Kite - Falcon*: **Mississippi Kite**: 9 Aug (1) Montgomery Co (JH); 14 Aug (2) Dickson City L, Dickson Co (Marjorie Dunham); 21 / 27 Aug (12 / 16) Duck R Unit (RS, AT); 22 Aug (1) west Nashville (Ed Schneider); 23 Aug (1) Clarksville (Steve Routledge, Cyndi Routledge); 24 Aug (1) Wilson Co (AT); 27 Aug / 15 Sep (1) Perry Co (RS, AT); 28 Aug (6) Bark Camp Barrens sod farm (Dale Swant); 30 Sep (1) Dickson Co (Allison Salas). **Broad-winged Hawk**: 30 Sep (151) Fort Campbell (DMo), max. **Golden Eagle**: 5 Nov thru season (max 2 ad + 1 im on 26 Nov) Duck R Unit (RS); 26 Nov (1 im) Perry Co (RS); 29 Nov (1 ad) Bruton Branch (DDP, RH). **Merlin**: 30 Aug (1) Edgar Evins SP (Mark Taylor); 11 Sep (1) Montgomery Co (Stanley York); 17 Sep (1) Bark Camp Barrens sod farm (Dan Snell); 18 Sep (1) Bell's Bend (MS); 21 Sep (1) Bruton Branch (RS, VS); 22 Sep (2) Perry Co (RS); 23 Sep (1) Trousdale Co (SZ); 24 Sep (1) Shelby Park (PDC, MS); 1 / 17 Oct (1) Murfreesboro (CW); 11 Oct / 5 Nov (1) Duck R Unit (RS); 14 Oct (2) Edgar Evins SP (Mark Taylor); 16 Oct (2) Marshall Co (RS); 17 Oct (1) Percy Priest Field Trial Area, Rutherford Co (SZ); 26 Oct (1) Fort Campbell (DMo); 8 Nov (1) Cedar Hall, Rutherford Co (CW); 24 Nov (1)



Rutherford Co (Justin Nation); 27 Nov (1) Davidson Co (Graham Gerdeman). **Peregrine Falcon:** 14 / 28 Sep (1) Perry Co (RS); 15 Sep (1) Bark Camp Barrens sod farm (SNM); 6 Oct / 5 Nov (1) Duck R Unit (RS); 14 Oct (1) Dickson Co (Allison Salas); 15 Oct (1) Radnor L (FF); 11 Nov (1) Long Hunter SP, Rutherford Co (Justin Nation, photo); 19 Nov (1) Woods Reservoir, Franklin Co (RS, VS, CW, Nolan Walker).

*Flycatcher - Siskin:* **Olive-sided Flycatcher:** 18 Aug (1) Duck R Unit (Ruth Ridley Carr); 10 Sep (1) South Shores, Humphreys Co (JH); 10 Sep (1) Duck R Unit (RS, AT); 11 Sep (1) Smith Co (CA). **Yellow-bellied Flycatcher:** 27 Aug - 27 Sep (1-3 on 6 dates) Perry Co (RS, AT); 27 Aug (1) Montgomery Co (JH); 1 Oct (1) Natchez Trace, Lawrence Co (Bill Pulliam); 5 / 12 Oct (1) Radnor L (FF); 6 Oct (1) Duck R Unit (RS); 10 Oct (1) Crooked Branch Park, Davidson Co (PDC). **Alder Flycatcher:** 20-22 Sep (1) Perry Co (RS), identified by call. **Willow Flycatcher:** 4 Aug (1) Cross Cr NWR (Steve Routledge, Cyndi Routledge); 15 Sep (1) Perry Co (RS); 14 Sep (1) Montgomery Co (Stanley York). **Least Flycatcher:** 27 Aug (1) Perry Co (RS, AT), ers; 2 Oct (1) Boiling Pond (RS, VS), lrs. **Scissor-tailed Flycatcher:** 24 Sep (2) Wartrace, Bedford Co (Melissa Turrentine); 8 Oct - 1 Nov (4-5) Murfreesboro (Kristy Baker); 10 Oct (1 each at two sites) Bedford Co (Melissa Turrentine); 21 Oct (1) Lytle Cr Rd, Rutherford Co (CW). **Loggerhead Shrike:** 6 Aug / 1 Oct (1) White Co (Doug Downs / SZ); 20 Sep / 18 Oct (1) Rutherford Co (CW); 2 Oct (1) Giles Co (SNM, N.P. McWhirter). **White-eyed Vireo:** 5 Nov (1) Duck R Unit (RS), lrs. **Blue-headed Vireo:** 8 Nov (1) Perry Co (VS), lrs. **Philadelphia Vireo:** 28 Sep (4) Perry Co (RS), max; 1 Oct (3) Lewis Co (Bill Pulliam, m.ob.); 13 Oct (1) Hickman Co (RS), lrs. **Purple Martin:** 6 Oct (1) Duck R Unit (RS), lrs. **Northern Rough-winged Swallow:** 5 Nov (2) Duck R Unit (RS), lrs. **Cliff Swallow:** 11 Oct (2) Rutherford Co (CW), lrs. **Barn Swallow:** 11 Nov (1) Maury Co (RDH, DMy), lrs. **Red-breasted Nuthatch:** 11 Sep (1) Smith Co (CA); 19 Sep (1) Murfreesboro (CW); 29 Sep (1) Perry Co (RS); 6 Oct (1) Radnor L (JKS); 11 Oct (1) Trousdale Co (SZ); 11 Oct (1) Sumner Co (MS); representative arrivals. **Sedge Wren:** 12 Aug - 2 Sep (max 14) Fort Campbell (DMo); 2 Oct (1) Boiling Pond (RS, VS); 5 Oct (1) Walker Branch SNA, Hardin Co (Allan Trently); 6 Oct (5) Duck R Unit (RS). **Marsh Wren:** 2 Oct (2) Boiling Pond (RS, VS); 4 Oct (1) Warren Co (SNM); 17 Oct (1) Shelby Park (FF, PDC); 27 Oct (1) Bell's Bend (FF). **Veery:** 19 Oct (1) Nashville (CAS), lrs. **Gray Catbird:** 16 Nov (1) Williamson Co (MJW); 29 Nov (1) Shelby Park (Justin Hiltner); lrs. **Purple Finch:** 22 Oct (1) Clay Co (Terry Campbell), ers; several scattered reports thereafter. **Pine Siskin:** 31 Oct (1) Murfreesboro (CW), ers; few reports.

*Warblers:* **Ovenbird:** 23 Oct (1) Perry Co (VS), lrs. **Worm-eating Warbler:** 12 Oct (1) Perry Co (RS), lrs. **Northern Waterthrush:** 22 Oct (1) Duck R Unit (Justin Nation), lrs. **Blue-winged Warbler:** 12 Oct (1) Radnor L (FF), lrs. **Golden-winged Warbler:** 4 - 30 Sep (1-5, intermittently) Perry Co (RS); 4 Sep (1) Rockvale, Rutherford Co (Kristy Baker); 7 / 12 Sep (2) Radnor L (JKS / FF); 11 Sep (1) Montgomery Co (Stefan Woltmann); 16 Sep (1) White's Cr, Davidson Co (Ed Schneider); 16 Sep (1) Williamson Co (MJW); 17 Sep (1) Peeler Park, Davidson Co (MS); 18 Sep (1) Hickman Co (AT); 21 / 28 Sep (1) Radnor L (Kevin Bowden / FF); 20-21 Sep (1) Bruton Branch (RS, VS); 24 Sep (1) Warner Park,

Davidson Co (FF); 25 Sep (1) Hendersonville, Sumner Co (MS); 1 Oct (1) Lewis Co (Bill Pulliam, m.ob.); 2 Oct (1) Perry Co (RDH, DMy); 5 / 12 Oct (2 / 1) Radnor L (FF). **Orange-crowned Warbler:** 12 Oct (1, ba) Warner Park, Davidson Co (Sandy Bivens); 17 / 24 Oct (2 / 1) Shelby Park (FF, PDC); 19 Oct (3) Land Between the Lakes, Stewart Co (Bill Lisowsky); 3 Nov (3) Otter Cr, Davidson Co (Scott Block); 11 Nov (1) Maury Co (RDH, DMy); 29 Nov (1) Savannah Bottoms, Hardin Co (DDP, RH). **Nashville Warbler:** 3 Nov (1) Otter Cr, Davidson Co (Scott Block), lrs. **Connecticut Warbler:** 23 Sep (1) Perry Co (Adam Beachy, RS). **Mourning Warbler:** 20-24 Sep (1-2) Perry Co (Adam Beachy, RS et al.); 23 Sep (1) Fall Cr, Wilson Co (SZ); 24 Sep (1) Bedford Co (Melissa Turrentine). **Hooded Warbler:** 22 Oct (1) Perry Co (RS), lrs. **American Redstart:** 21 Oct (1) Shelby Park (FF), lrs. **Cape May Warbler:** 18 Sep (1) Hickman Co (AT); 28 Sep / 3 Oct (1) Radnor L (CAS, m.ob./FF); 1 Oct (1) David Crockett SP, Lawrence Co (RS); 4 Oct (1) Clarksville (Steve Routledge, Cyndi Routledge). **Northern Parula:** 22 Oct (1) Old Hickory L, Sumner Co portion (CAS et al.), lrs. **Yellow Warbler:** 1 Oct (1) Crooked Branch Park, Davidson Co (MS, PDC); 13 Oct (1) Radnor L (FF); both late. **Chestnut-sided Warbler:** 21 Oct (1) Murfreesboro (CW, photo), lrs. **Blackpoll Warbler:** 10 Oct (1) Sumner Co (MS), rare in fall. **Black-throated Blue Warbler:** 18 Sep (1) Montgomery Bell SP, Dickson Co (John Froeschauer, Marilyn Burgess). **Black-throated Green Warbler:** 3 Nov (1) Otter Cr, Davidson Co (Scott Block); 5 Nov (1) Murfreesboro (CW); both late. **Wilson's Warbler:** 4 Aug (1) Rutherford Co (Greg Tomerlin), ers; 13 Oct (1) Radnor L (FF), lrs.

*Sparrow - Blackbird:* **Henslow's Sparrow:** 12 Aug - 2 Sep (max 25) Fort Campbell (DMo); 31 Oct - 1 Nov (1) Bell's Bend (FF / PDC). **Le Conte's Sparrow:** 29 Oct / 5 Nov (1) Duck R Unit (RS). **Fox Sparrow:** 16 Oct (1) Perry Co (RS), ers. **Lincoln's Sparrow:** 24 Sep - 24 Oct (1-2) Perry Co (RS et al.); 2 Oct (1) Boiling Pond (RS, VS); 16 Oct (1) Crooked Branch Park, Davidson Co (MS); 18 / 31 Oct (1) Bell's Bend (FF); 5 Nov (3) Duck R Unit (RS). **Scarlet Tanager:** 22 Oct (1) DeKalb Co (CA), lrs. **Black-headed Grosbeak:** 11-12 Oct (1 male) Perry Co (VS, RS). **Blue Grosbeak:** 11 Oct (2) Duck R Unit (RS), lrs. **Indigo Bunting:** 20 Nov (1) Perry Co (RS), lrs. **Dickcissel:** 23 Aug (35) Fort Campbell (DMo), max. **Bobolink:** 23 Aug / 6 Sep (9 / 12) Fort Campbell (DMo); 14 Sep (14) Perry Co (RS); 18 Sep (5) Bell's Bend (MS). **Rusty Blackbird:** 26 Oct (1) marsh on Walter S. Davis Blvd, Nashville (FF), ers. **Brewer's Blackbird:** 30 Nov (7) Bark Camp Barrens sod farm (SNM).

*Locations:* Bark Camp Barrens sod farm - Coffee Co; Bell's Bend - Davidson Co; Boiling Pond - White Co; Bruton Branch - Hardin Co; Cross Cr NWR - Stewart Co; Duck R Unit - unit of Tennessee NWR, Humphreys Co; Eagleville sod farm - Rutherford Co; Edgar Evins SP - DeKalb Co; Fort Campbell - Montgomery Co (unless specified otherwise); Old Hickory L - Davidson Co (unless specified otherwise); Radnor L - Davidson Co; Shelby Park and Bottoms - Davidson Co.

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CUMBERLAND PLATEAU / RIDGE and VALLEY REGION - - Summer's heat wave continued well into autumn with each of the four months having above average temperatures. September and October were the most extreme, with readings at Chattanooga that were 6.1 degrees warmer than average in both months, while November was 4.5 degrees warmer than average in that city. From June through late September, the Tri-cities area experienced 62 days of 90+ degree temperatures, breaking the previous record of 55 days set six years ago and more than three times the long-term average. Numerous days of 80+ degrees continued into early November, although the latter half of that month saw more seasonal temperatures. The warm temperatures apparently contributed to numerous birds lingering a bit later than normal. It was also very dry this autumn with a shortage of rainfall in each of the first three months. November was equally dry until heavy rains fell over the last two days of the month. By November most of the region was in severe to exceptional drought conditions which were exacerbated by the heat. Numerous small ponds, springs, and other wet areas dried up.

The water level in Douglas Lake was lowered earlier than normal this year, exposing the mudflats at Rankin Bottoms by early August. By season's end, 25 species of shorebirds had been observed on Upper Douglas Lake (including Rankin Bottoms), highlighted by Marbled Godwit and Red Phalarope. A Lesser Black-backed Gull there on 21 August established a new early arrival date in Tennessee. Long-legged waders were well represented in the region, including a Wood Stork and multiple records of White Ibis. The post-breeding dispersal of kites into East Tennessee was remarkable this year, with four records of Swallow-tailed Kites and three records of Mississippi Kites. Good numbers of Merlins and Peregrine Falcons were observed, continuing that trend.

Most amazing was the appearance of two species new to the state. First was a very accommodating Northern Wheatear that lingered for a week on a private farm in Loudon County. The hospitality of the farm manager allowed many birders to view this rare visitor. Soon after came a Bohemian Waxwing in a city park in Knoxville; unfortunately, it did not linger. Both of these rarities were well photographed.

Also notable were Lapland Longspur, Clay-colored Sparrow (three reports), Le Conte's Sparrow, and a tardy Great Crested Flycatcher. Boreal irruptives were represented by scattered Red-breasted Nuthatches and Purple Finches.

*Goose - Crane:* **Greater White-fronted Goose:** 19 Oct (224 in 2 flocks flying over) Watts Bar Dam, Meigs Co (Jordan Rolen, photo), very large number for East TN; 25-26 Nov (1) Seven Islands SP (Terry Crowe / MM). **Snow Goose:** 23 / 28 Nov (1) Fort Loudoun L (MM, m.ob. / JSt); 29 Nov (3) Meigs Co (AT); 30 Nov (1) Eagle Bend (Chuck Estes). **Ross's Goose:** 19 Nov (1) Fort Loudoun L (Colin Sumrall). **Surf Scoter:** 5 Nov (1) Melton Hill Dam, Loudon Co (Mike Ryon, m.ob.); 10 Nov (4) Fort Loudoun L (BSc). **Common Merganser:** 18 Aug / 7 Sep (3 / 8) Watauga R, Washington Co (RLK), all female-type; 15 Nov (10 female-type) Beaver Cr, Sullivan Co (Harry Farthing); continuation of late spring / summer sightings in these two areas. **Yellow-billed Cuckoo:** 22 Oct (1) Cove Lake SP (Jerry Ledbetter), lrs. **Black-billed Cuckoo:** 17 Sep (1) Bristol, Sullivan Co (RMC). **Common Nighthawk:** 29 Oct / 16 Nov (1 / 5) UT campus, Knoxville (CJW), lrs. **Chimney Swift:** 20

Oct (5) Austin Springs, Washington Co (RLK), Irs. **Selasphorus sp.**: 19-20 Oct (1) Boone L, Sullivan Co (Jerry Bevins, GDE). **Virginia Rail**: thru season (1-2) Standifer Gap Marsh (m.ob.). **Sandhill Crane**: 25 Oct (2) Hiwassee Refuge (CM), ers; 11 Nov (2) John Sevier L (SHu), east of usual migration corridor.

*Shorebirds*: **Black-bellied Plover**: 14-26 Aug (1-2) Rankin Bottoms (CJW, SZ, m.ob.). **American Golden-Plover**: 3 / 8 Sep (2 / 3) Upper Douglas L (MBS / Ron Shrieves); 12-29 Sep (1) Eagle Bend (RDH, DMy). **Semipalmated Plover**: 16 Aug (45) Rankin Bottoms (RLK), max; 25 Oct (1) Bristol, Sullivan Co (GDE, PGR), new late date in NE TN. **Marbled Godwit**: 13-14 Aug (2) Rankin Bottoms (JSt, Jimmy Tucker, m.ob., photo). **Ruddy Turnstone**: 10-23 Aug (1) Rankin Bottoms (RLK, m.ob.). **Stilt Sandpiper**: 9 Aug - 23 Sep (1-14) Rankin Bottoms and Upper Douglas L (MM, RLK, m.ob.); 23 Aug (1) Hamilton Co (TLR). **Sanderling**: 20 Aug - 23 Sep (2-9) Rankin Bottoms and Upper Douglas L (RLK, m.ob.), max 20 on 2 Sep (RLK, TSM, Cathy McNeil); 17 Sep (1) John Sevier L (SHu); 18 Sep (2) L Tansi (EKL); 28-29 Sep (1) Oak Ridge Marina, Anderson Co (Michael Jones, m.ob.). **Dunlin**: 2 Oct (4) Rankin Bottoms (William DaPore); 25 Nov (1) Washington Co (GDE et al.). **Baird's Sandpiper**: 22-25 Aug (1-4) Rankin Bottoms (MBS, RLK, m.ob.). **Least Sandpiper**: 16 Aug (120+) Rankin Bottoms (RLK), max. **White-rumped Sandpiper**: 29 Aug (1) Rankin Bottoms (MBS). **Buff-breasted Sandpiper**: 22-28 Aug (1) Rankin Bottoms (MBS, RLK). **Pectoral Sandpiper**: 16 Aug (120+) Rankin Bottoms (RLK), max. **Western Sandpiper**: 10 Aug - 6 Sep (1-10) Rankin Bottoms and Upper Douglas L (RLK, MBS, m.ob.). **Short-billed Dowitcher**: 9 Aug - 8 Sep (2-13) Rankin Bottoms (MM, RLK, MBS); 25 Aug (1) Eagle Bend (RDH, DMy). **Wilson's Snipe**: 27 Aug (1) Rankin Bottoms (GB et al.), ers. **Greater Yellowlegs**: 23 Nov (2) John Sevier L (SHu), Irs. **Willet**: 4 Aug (2) Rankin Bottoms (RLK); 5-7 Aug (1) Amnicola Marsh, Hamilton Co (HB, m.ob.). **Wilson's Phalarope**: 21 Aug - 3 Sep (1-2) Rankin Bottoms (MBS, m.ob.); 1 Sep (1) Eagle Bend (RDH, DMy). **Red Phalarope**: 23 Aug - 2 Sep (1) Upper Douglas L (Damien Simbeck, m.ob., photo).

*Gull - Pelican*: **Laughing Gull**: 26 Aug - 5 Sep / 6 Oct (1) Upper Douglas L (RHo, m.ob. / Ron Shrieves). **Franklin's Gull**: 19 Nov (2) Chickamauga L (BD). **Ring-billed Gull**: 25 Aug (145) Rankin Bottoms (RLK), good number this early. **Lesser Black-backed Gull**: 21 Aug (1 ad) Upper Douglas L (SHu, photo), new early fall date in TN; only report. **Black Tern**: 14-18 Aug (4-21) Ish Cr, Fort Loudoun L, Blount Co (Marcia Davis, m.ob.); 14 Aug (5) Rankin Bottoms (CJW, SZ, m.ob.); 15 Aug - 7 Sep (1) John Sevier L (SHu); 16 / 21 Aug (4 / 48) Chickamauga L (BD / KAC, DRJ, Gary Brunvoll); 21 Aug (102+) Nickajack L (TLR); 23 Aug (58) Upper Douglas L (Damien Simbeck, m.ob.); 28 Aug (2) Middlebrook L, Sullivan Co (RMC). **Common Tern**: 2 Sep (16) Upper Douglas L (RLK). **Wood Stork**: 13 Aug (1) Powerhouse Trail, Oak Ridge Reservation, Roane Co (Richard Schwartz, photo). **Double-crested Cormorant**: 6 Sep (650) Upper Douglas L (MBS), max. **American White Pelican**: 22 Sep (26, flying over) Soddy Mtn, Hamilton Co (Jimmy Wilkerson, Cynthia Wilkerson, Bill Haley); 6 Oct (17) Upper Douglas L (Ron Shrieves); 25 Oct - 25 Nov (25-50) Hiwassee Refuge (CM, m.ob.); 19 Nov (1) L Tansi, Cumberland Co (EKL).

*Egret - Falcon*: **Great Egret**: 6 Sep (220) Upper Douglas L (MBS), max; 27 Sep (77) John Sevier L (SHu), large number there. **Snowy Egret**: 20 Aug (2) Bowater Ponds, McMinn Co (CM); 27 Aug (1) Rankin Bottoms (Evan Buck, photo). **Little Blue Heron**: 1 Aug - 4 Sep (1-8 im) Rankin Bottoms (MBS, RLK, m.ob.); from Jul thru 15 Aug (1 im) Kingsport (m.ob.); 6 Aug (1 im) Washington Co (Jim Anderson); 6-20 Aug (4-6 im) Kyker Bottoms, Blount Co (RW, m.ob.); 9-12 Aug (1 im) south Knoxville (JSt); 11 Aug (4 im) Williams Island, Hamilton Co (Rick Huffine); 17 Aug (1 im) John Sevier L (SHu); 19 Sep (2 im) Gupton Wetland, Roane Co (MM). **Cattle Egret**: 29 Nov (1) South Mouse Cr, Bradley Co (RHo), lrs. **Black-crowned Night-Heron**: 28 Aug (1) Leesburg, Washington Co (RRK); 21 Oct (1) Cove Lake SP, Campbell Co (Nell Moore); unusual at these sites. **Yellow-crowned Night-Heron**: 28 Jul - 27 Aug (1 ad) Maryville Greenway, Blount Co (RW, m.ob.). **White Ibis**: 5 Aug (1 im) Eagle Bend (RDH, DMy); 11 Aug (1 im) Williams Island, Hamilton Co (Rick Huffine); 21-27 Aug (1-2 im) Rankin Bottoms (MBS, m.ob.); 4 Sep (1 im) Bible Refuge, Greene Co (David Kirschke); 8 / 28 Sep (1 im) Leesburg, Washington Co (Jim Anderson, m.ob.); 19 Sep (1 im) Gupton Wetland, Roane Co (MM). **Osprey**: thru 27 Nov (1) Warrior's Path SP, Sullivan Co (GB, m.ob.), lrs in NE TN. **Swallow-tailed Kite**: 1-3 Aug (1) Oliver Springs airport, Anderson Co (RDH, DMy, m.ob.), continuing from late Jul; 4-25 Aug (2-7) Upper East Valley Rd, Bledsoe Co (EKL, Pam Barrett, m.ob.); 5 Aug (4) near Lancing, Morgan Co (Randy Scoggins fide Charles Nicholson); 15 Aug (1) Laurel Run Park, Hawkins Co (GB, Bill Grigsby et al.). **Mississippi Kite**: 23 Aug (1) Rankin Bottoms (RS, VS, RLK), 1st record there; 24-31 Aug (2-5) Conklin, Washington Co (RLK, m.ob.), 5th record in NE TN, all previous records in spring; 26 Aug (1) Phipps Bend, Hawkins Co (Harry Lee Farthing), apparently 1st Co record. **Broad-winged Hawk**: 27 Sep (1 dark morph) Soddy Mtn (Jimmy Wilkerson, Bill Haley). **Barn Owl**: 17 Aug (1) Hawkins Co (SHu); 6 Nov (1) Seven Islands SP (Evan Buck). **Merlin**: 2 Sep (1) Upper Douglas L (RLK); 27 Sep / 27 Oct (1) Knoxville (KDE); 2 Oct (1) Hamilton Co (RS, VS); 4 Oct (1) L Tansi, Cumberland Co (EKL); 11 Oct (1) Seven Islands SP (JSt); 21 Oct / 25 Nov (2) Leesburg, Washington Co (GDE et al.); 26 Oct (1) Standifer Gap Marsh (HB); 15 Nov (1) Hiwassee Refuge (CM); 23 Nov (1) Sequoya Hills Park, Knoxville (RS, VS); 25 Nov (1) Limestone (GDE); 29 Nov (1) Paddle Cr, Sullivan Co (RRK). **Peregrine Falcon**: 9 / 23 Aug (1) Rankin Bottoms (MM); 23 Sep (1) Knoxville (KDE); 25 Sep (1) Chattanooga (BD); 27 Sep (1) Paddle Cr, Sullivan Co (RMC); 3 Oct (1) Craven's House, Hamilton Co (KAC); 19 Oct thru season (1) Maryville, Blount Co (RW, m.ob.), regular wintering site; 20 Oct (1) Johnson City (Larry McDaniel); 6 Nov (1) Marion Co (KAC, DRJ); 20 Nov (1) Chickamauga L (BD); 25 Nov (1) Limestone (GDE et al.).

*Flycatcher - Longspur*: **Olive-sided Flycatcher**: 19 Aug (1) Lookout Mtn, Hamilton Co (BD); 21 Aug (1) Hamilton Co (KAC, DRJ, Gary Brunvoll); 3 Sep (1) John Sevier L (SHu). **Yellow-bellied Flycatcher**: 22 Aug (1) Knoxville (JSt); 5 Sep (1, ba) Greenway Farm (David Aborn); 19 Sep (1) Kingsport, Sullivan Co (GDE). **Great Crested Flycatcher**: 12-13 Oct (1) Knoxville (KDE), 3rd latest record in state. **Scissor-tailed Flycatcher**: 4 Aug (3) Bledsoe Co (EKL, Pam Barrett). **Blue-headed Vireo**: 27 Nov (1) Knoxville (KDE), lrs. **Philadelphia Vireo**: 20 Sep (1) Knoxville (KDE); 20 Sep - 2 Oct (1-3) Cumberland Co (EKL); 22 Sep / 8

Oct (2) Norris Dam (SW / RDH, DMy); 24 Sep (1) Anderson Co (Bates Estabrooks); 27 Sep (1) Knoxville (Michael Ryon); 1 Oct (1) Fall Cr Falls SP, Van Buren Co (Ashley Peele); 4 Oct (1) Sharp's Ridge, Knox Co (JSt). **Warbling Vireo**: 20 Sep (1) Cumberland Co (EKL). **Fish Crow**: thru 14 Nov (1+) Kingsport (Rack Cross). **Common Raven**: 6 Sep (2) Kingsport (GB); 16 Sep (2) Conklin, Washington Co (RLK); 15 Oct - 4 Nov (1-2) Bristol (RLK); 16 Oct (1) Seven Islands SP (JSt); 4 Nov (4) Laurel Run Park, Hawkins Co (GB et al.); 25 Nov (2) Limestone (GDE et al.). **Northern Rough-winged Swallow**: 16 Nov (1) Cherokee Farm, Knox Co (CJW), lrs. **Red-breasted Nuthatch**: 12 Sep (1) Lookout Mtn (BD); 20 Sep (1) Knoxville (KDE); 28 Sep (1) Cumberland Co (EKL); representative arrivals, scattered small numbers thereafter. **Sedge Wren**: 24 Sep (1) Seven Islands SP (JSt et al.); 25 Sep (1) UT Plant Science Farm, Knox Co (JSt, MM, BSc); 2 / 13 Oct (1) Hamilton Co (RS, VS / KAC); 17 Oct (1) Cherokee Farm, Knox Co (Jacob Wessels, ph). **Marsh Wren**: 29 Sep / 30 Nov (1) John Sevier L (SHu); 2 Oct (2) Hamilton Co (RS, VS); 2-8 Oct (2) Seven Islands SP (MA, JSt); 3 Oct (1) Kingsport (RLK); 17 Oct (1) White's Mill Refuge, Blount Co (RW). **Blue-gray Gnatcatcher**: 27 Nov (1) Chester Frost Park, Hamilton Co (S.K. Jones), lrs. **NORTHERN WHEATEAR**: 13-20 Nov (1) Poplar Springs, Loudon Co (Tony King, m.ob., photos), first state record. **Veery**: 15 Oct (1) Knoxville (KDE), lrs. **Swainson's Thrush**: 24 Oct (1) Knoxville (KDE), lrs. **Gray Catbird**: 24 Nov (1) Grainger Co (Emily Hockman), lrs. **BOHEMIAN WAXWING**: 22 Nov (1) Sequoyah Hills Park, Knoxville (Colin Sumrall, photos), in a flock of Cedar Waxwings. **Purple Finch**: 20 Oct (1) Johnson City (RLK); 27 Oct (3) Hamilton Co (Carol Fegarido); 29 Oct (1) Knox Co (JSt); representative arrivals, scattered small numbers thereafter. **Pine Siskin**: 27 Oct (1) Lookout Mtn (BD), only report. **Lapland Longspur**: 23-26 Nov (2) Limestone (RLK, m.ob.), a fairly regular wintering site.

*Warblers*: **Blue-winged Warbler**: 20 Oct (1) Chickamauga and Chattanooga National Military Park, Hamilton Co (TLR), lrs. **Golden-winged Warbler**: 10 Sep (2) Frozen Head, Morgan Co (Evan Buck); 10 / 16 Sep (1) Lookout Mtn (BD); 20-21 Sep (2-4) Cumberland Co (EKL); 27 Sep (1) Birchwood, Hamilton Co (CM); 2 Oct (1) Grundy Co (RS, VS). **Tennessee Warbler**: 1 Nov (1) L Tansi (Pam Barrett), lrs. **Orange-crowned Warbler**: 15 Oct (1) Standifer Gap Marsh (BD); 15 Oct (1) Chattanooga (TLR); 17 Oct (2) Cumberland Co (EKL); 20 Oct (1) Chickamauga and Chattanooga National Military Park, Hamilton Co (TLR); 23-24 Oct (2-1) Standifer Gap Marsh (HB); 26 Oct (1) Lookout Mtn (BD); 5 Nov (1) Knox Co (BSc); 8 Nov (1) Seven Islands SP (John Diener); 12 Nov (1) Melton Hill Park, Knox Co (Colin Sumrall). **Nashville Warbler**: 24 Oct (1) Standifer Gap Marsh (HB), lrs. **Mourning Warbler**: 3-5 Sep (1) Cumberland Co (EKL); 15-16 Oct (1) Seven Islands SP (JSt, m.ob.). **Blackburnian Warbler**: 20 Oct (1) Seven Islands SP (SW), lrs. **Yellow Warbler**: 2 Oct (1) Hamilton Co (RS, VS), lrs. **Chestnut-sided Warbler**: 19 Oct (1) Eagle Bend (RDH, DMy); 19 Oct (1) Cumberland Co (EKL); lrs. **Blackpoll Warbler**: 20 Oct (1) Seven Islands SP (SW), rare in fall. **Black-throated Blue Warbler**: 12 Sep (1) Cumberland Co (EKL); 23 Sep / 8 Oct (1 male / 1 female) Norris Dam (SW / RDH, DMy); 19 Oct (1) Washington Co (RLK), lrs. **Palm Warbler**: 16 / 26 Oct (1, Yellow Palm) Seven Islands SP (JSt); 23 Oct (2, Yellow Palm) Colinx Wetland, Cumberland Co (EKL). **Wilson's Warbler**: 3 Sep / 1 Oct (1) Norris Dam (Eric Bodker / BSc); 4 Sep (1, window kill) UT Chattanooga (David Aborn); 8

Oct (1) John Sevier L (SHu); 15-17 Oct (1) Seven Islands SP (JSt, m.ob.).

*Sparrow - Blackbird*: **Clay-colored Sparrow**: 1 Oct (1) Discovery Drive, Hamilton Co (BD, Libby Wolfe, photo); 4 Oct (1) Chester Frost Park, Hamilton Co (S.K. Jones, photo); 8 Oct (1) Knoxville (KDE). **Vesper Sparrow**: 14 Nov (12) Loudon Co (RS), max. **Henslow's Sparrow**: 6 Aug (2) near Monterey, Putnam Co (SZ). **Le Conte's Sparrow**: 23 Oct (1) south Johnson City (Larry McDaniel, RLK), 6th record in NE TN. **Fox Sparrow**: 16 Oct (1) Seven Islands SP (JSt, MM), ers. **Lincoln's Sparrow**: 5 / 17 Oct, 1 Nov (1-2) Cumberland Co (EKL); 8-26 Oct (1-3) Seven Islands SP (JSt, MA, m.ob.); 11 Oct (1) Hamilton Co (KAC); 14 Oct (1) Warrior's Path SP, Sullivan Co (PGR); 23 Oct (1) Colinx Wetland, Cumberland Co (EKL); 23 Oct (1) Standifer Gap Marsh (HB). **Summer Tanager**: 18 Oct (1) Bristol (RMC), lrs. **Blue Grosbeak**: 17 Oct (2) White's Mill Refuge, Blount Co (RW), lrs. **Dickcissel**: 2-6 Oct (1-2) Seven Islands SP (MA, MM); 3 Oct (1, flying over) Knoxville (KDE); lrs. **Brewer's Blackbird**: 28 Nov (2, male + female) Knox Co (JSt).

*Locations*: Eagle Bend - fish hatchery in Anderson Co; Fort Loudoun L - Knox Co (unless specified otherwise); Hiwassee Refuge - Meigs Co; John Sevier L - Hawkins Co; Rankin Bottoms - Cocke Co; Seven Islands SP - Knox Co; Standifer Gap Marsh - Hamilton Co; Upper Douglas L (including Dutch Bottoms and Ten Islands) - Cocke Co.

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EASTERN MOUNTAIN REGION - - Temperatures were well above normal for each month in the period. Each month had below average precipitation with October the driest with less than an inch of rain. Highlights this autumn included Black Scoter, American Avocet, Marbled Godwit, Short-eared Owl, and Snow Bunting.

Three fall banding stations were conducted in the region. At Big Bald Mountain, there was a raptor banding operation in addition to songbird banding (detailed separately below). Cape May Warblers had a record year at Big Bald. Tennessee Warbler numbers were low there and also at the other two stations. Gray-cheeked Thrushes were banded in above average numbers at each station.

- Big Bald Mountain, Unicoi County: Aug - Nov (2587 birds of 61 species banded); Mark Hopey, head bander. Top species banded: Cape May Warbler (643), Tennessee Warbler (506), Swainson's Thrush (297), Black-throated Blue Warbler (277), Dark-eyed Junco (132).
- Whigg Meadow, Monroe County: 3 Sep - 2 Oct (1094 birds of 50 species banded); Scott Rush, head bander. Top species banded: Swainson's Thrush (218), Tennessee Warbler (200), Black-throated Blue Warbler (70), Magnolia Warbler (67), Blue-headed Vireo (61), Hooded Warbler (61).
- Holston Valley, Sullivan County: 27 Aug - 5 Nov (302 birds of 41 species banded); Richard Lewis, bander. Top species banded: Swainson's Thrush (47), American Robin

(29), Tennessee Warbler (25), Gray-cheeked Thrush (19), Black-throated Blue Warbler (19).

- Big Bald Mountain hawk banding operation: Sep - Nov (124 birds of 6 species banded); Mark Hopey, bander. All species banded: Sharp-shinned Hawk (92), Cooper's Hawk (12), Red-tailed Hawk (11), Merlin (8), Northern Harrier (2).

*Teal - Tern:* **Blue-winged Teal:** 27 Sep (300) South Holston L (RLK), max. **Greater Scaup:** 10 Nov (1) South Holston L (GDE, PGR, MWS). **Black Scoter:** 8-10 Nov (6-1) South Holston L (PGR, m.ob., photo - MWS). **Horned Grebe:** 10 Aug (2) South Holston L (MWS), new early fall date for NE TN. **Rufous Hummingbird:** 5 Nov (1, im male, ba) Simerly Cr, Carter Co (BKS, banded by MA), had been present for two weeks prior. **Sandhill Crane:** 22 Sep (2) South Holston L (Brookie Potter, Jean Potter). **American Avocet:** 8 / 18 Aug (2 / 1) South Holston L (RLK, m.ob / RMC); 25-28 Aug (1) Polk Co (RHo, m.ob.). **American Golden-Plover:** 8 Oct (3) South Holston L (RLK). **Marbled Godwit:** 22-31 Aug (1) South Holston L (RLK, RMC, m.ob.), 3rd record in NE TN. **Sanderling:** 22 Aug (1) South Holston L (GDE, RLK, m.ob.). **Baird's Sandpiper:** 23 Aug (1) South Holston L (RMC). **Short-billed Dowitcher:** 8 Aug (1) South Holston L (RLK). **Ring-billed Gull:** 22 Aug (2) South Holston L (RLK, m.ob.), ers. **Caspian Tern:** 15 Aug - 19 Sep / 3 Oct (1-4) South Holston L (RLK, GDE, MWS, m.ob.). **Black Tern:** 14 Aug - 2 Sep (4-20) South Holston L (RRK, m.ob.). **Common Tern:** 2 Sep / 3 Oct (2 / 1) South Holston L (GDE, PGR / MWS). **Forster's Tern:** 15 Aug - 3 Oct (1-4, intermittently) South Holston L (RLK, GDE, MWS, m.ob.).

*Egret - Falcon:* **Great Egret:** 29-30 Nov (1) South Holston L (RLK / RMC), lrs. **Green Heron:** 4 Oct (1) Shady Valley (RLK), lrs. **Bald Eagle:** 22 Oct (1 im) Shady Valley (Harry Lee Farthing, RLK, Jim Anderson, Vern Maddux), 1st valley record. **Golden Eagle:** 5 Nov (1 ad) Cades Cove (Tom Howe, Warren Bielenberg). **Short-eared Owl:** 26 Oct (1) Quarry Bog in Shady Valley (RLK), 1st valley record and 9th in NE TN. **Northern Saw-whet Owl:** 31 Aug - 13 Nov (11 ba) Big Bald Mtn (MEH); 24 Sep (1) Unaka Mtn (Joe McGuinness, Vern Maddux); 27 Nov (1, ba) Holston Valley (RPL). **Belted Kingfisher:** 8 Nov (1, flying over) Carver's Gap on Roan Mtn (RLK), unusual at high elevation. **Red-headed Woodpecker:** 10 Nov (2) Watauga L, Carter Co (Guy McCrane). **Merlin:** 13-14 / 29 Sep (1) Roan Mtn (RLK / Kathy Noblet); 1 Oct (1) Elizabethton (TSM); 1 Oct (1) Sevier Co (KW); 13 Oct (1) Cades Cove (Warren Bielenberg). **Peregrine Falcon:** 23 / 27 Sep (1) South Holston L (Clancy Deel / RLK); 24 Sep (2) Unaka Mtn (Don Holt, Dianne Draper); 29 Sep (1) Shady Valley (GDE, PGR et al.); 15 Oct (1) Mt Le Conte, GSMNP (Bruce Jones); 21 Oct (1) Holston Valley (RLK); 4 Nov (1) South Holston L (RLK).

*Flycatcher - Snow Bunting:* **Yellow-bellied Flycatcher:** 23 Aug (1) Carver's Gap on Roan Mtn (Damien Simbeck); 20 Sep (1 ba) Holston Valley (RPL); 28 Sep (1 ba) Big Bald Mtn (MEH). **Alder Flycatcher:** 23 Aug (2, calling) Carver's Gap on Roan Mtn (Damien Simbeck), new late date in NE TN. **White-eyed Vireo:** 25 Oct (1 ba) Holston Valley (RPL), lrs. **Yellow-throated Vireo:** 19 Oct (1) Cades Cove (Ben Yandell), lrs. **Philadelphia Vireo:** 18 / 23 Sep (1) Elizabethton (RLK); 22 / 24 Sep (1 ba each day) Whigg Meadow (SAR); 22 Sep (1 ba) Big



Bald Mtn (MEH); 26 Sep - 1 Oct (2-3) Pittman Center (KW); 29 Sep (1) Shady Valley (GDE, PGR et al.); 2 Oct (2) Emert's Cove, Sevier Co (KW); 10 Oct (1) Elizabethton (TSM). **Red-eyed Vireo**: 15 Oct (1) Sycamore Shoals SP (BKS, RRK), lrs. **Common Raven**: 30 Sep (1) Polk Co (RHo). **Bank Swallow**: 1 Sep (1) South Holston L (RLK), only report. **Marsh Wren**: 30 Sep - 1 Oct (1) Pittman Center (KW); 14 Oct (1) Shady Valley (RLK). **Gray Catbird**: 29 Oct (1) Sycamore Shoals SP (BKS, RRK), lrs. **American Pipit**: 25 Oct (2) Round Bald on Roan Mtn (RLK). **House Finch**: 10 Sep / 22 Nov (1 female / 1 male, at feeder) Roan Mtn, at 4450 ft (RLK), unusual at high elevation. **Purple Finch**: 26 Oct (2) Shady Valley (RLK), ers. **Red Crossbill**: 18-28 Aug / 18 Nov (2-8 / 10) Cades Cove (RW, JSt, m.ob. / Jerry Knight); 21 Sep (2) Watauga L, Carter Co (RLK); 24 Sep (2) Roan Cr, Johnson Co (TSM); 1 Oct (2) Holston Mtn, Sullivan / Johnson Co line (Bambi Fincher); 14 Oct (1) Shady Valley (RLK); 15 Oct (5) Mt Le Conte, GSMNP (Bruce Jones). **Pine Siskin**: from summer thru late Sep (1-7, at feeders) Roan Mtn, at 4450 ft (RRK, m.ob.); 25 Sep (5) Big Bald Mtn (SHu et al.). **Snow Bunting**: 5 Nov (1) parking area for Blackstack Cliffs, Greene Co (Joe Meyer, photos).

*Warbler - Blackbird*: **Golden-winged Warbler**: 28 Aug / 12 Sep (1 ba each day) Big Bald Mtn (MEH); thru Sep (5 ba) Whigg Meadow (SAR); 6 Sep (1) Carver's Gap on Roan Mtn (RLK); 28 Sep (1) Cosby, Cocke Co (Pamela Lasley). **Blue-winged Warbler**: 5 / 11 / 26 Sep (1 ba each day) Whigg Meadow (SAR). **Swainson's Warbler**: 31 Aug (1, still singing) Schoolhouse Gap, GSMNP (Tom Howe). **Tennessee Warbler**: 26 Aug (1) Roan Mtn (RLK), ers. **Orange-crowned Warbler**: 24 Sep (1) Roan Mtn (Fred Alsop, Kevin Brooks et al.); 3 / 16 Oct (1 ba each day) Big Bald Mtn (MEH). **Nashville Warbler**: 15 Sep / 7 Oct (1) Shady Valley (RLK/RRK, Jim Anderson); 9 Oct (1) Pittman Center (KW). **Common Yellowthroat**: 4 Oct (24) Shady Valley (RLK), max. **American Redstart**: 15 Oct (1) Sycamore Shoals SP (BKS, RRK), lrs. **Blackburnian Warbler**: 16 Oct (1) Elizabethton (Bambi Fincher), lrs. **Blackpoll Warbler**: 30 Sep (1 ba) Big Bald Mtn (MEH); 20 Oct (1 ba) Holston Valley (RPL). **Chestnut-sided Warbler**: 19 Oct (1) Pittman Center (KW), lrs. **Wilson's Warbler**: 18 Oct (1) Polk Co (RHo); 9 Nov (1) Milligan, Carter Co (Fred Alsop, Kevin Brooks), new late fall date in state. **Vesper Sparrow**: 4 Nov (2) Holston Valley (RLK). **Lincoln's Sparrow**: 28 Sep - 1 Nov (1-2 on 6 dates) Shady Valley (RLK); 28 Sep (1 ba) Whigg Meadow (SAR); 20 Oct (1) Cades Cove (Jesse Graves); 21 Oct (1) Emert's Cove, Sevier Co (KW). **Swamp Sparrow**: 28 Sep (1) Shady Valley (RLK), ers. **Rose-breasted Grosbeak**: 10-11 Nov (1) Pittman Center (KW, photo), lrs. **Bobolink**: 28 Sep / 14 Oct (18 / 1) Shady Valley (RLK), max / lrs. **Eastern Meadowlark**: 4 Nov (2) Newfound Gap, GSMNP (Craig Watson), unusual location. **Rusty Blackbird**: 25 Nov (15) Cades Cove (J.D. Johnston).

*Locations*: Big Bald Mtn - Unicoi Co; Cades Cove - in GSMNP; Elizabethton - Carter Co; GSMNP - Great Smoky Mtns National Park; Holston Valley - Sullivan Co; Pittman Center - Sevier Co; Roan Mtn - Carter Co; Shady Valley - Johnson Co; South Holston L - Sullivan Co; Sycamore Shoals SP - Carter Co; Whigg Meadow - Monroe Co.

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**Observers**

CA - Chris Agee  
MA - Mark Armstrong  
GB - Gary Bailey  
HB - Hugh Barger  
RMC - Ron M. Carrico  
PDC - Phillip D. Casteel  
BD - Bruce Dralle  
KDE - K. Dean Edwards  
GDE - Glen D. Eller  
FF - Frank Fekel  
MAG - Mark A. Greene  
JH - Joseph Hall  
RH - Rob Harbin  
RDH - Ron D. Hoff  
MEH - Mark E. Hopey  
RHo - Rick Houlk  
SHu - Susan Hubley  
RLK - Richard L. Knight  
RRK - Roy R. Knispel  
EKL - Edmund K. LeGrand  
RPL - Richard P. Lewis  
MM - Morton Massey  
TSM - Thomas S. McNeil  
SNM - Susan N. McWhirter  
DMo - Daniel Moss

CM - Charles Murray  
DMy - Dollyann Myers  
DDP - Dick D. Preston  
PGR - Peter G. Range  
TLR - Tommie L. Rogers  
SAR - Scott A. Rush  
MWS - Mike W. Sanders  
BSc - Beth Schilling  
JKS - Jan K. Shaw  
MBS - Michael B. Sledjeski  
CAS - Chris A. Sloan  
MS - Michael Smith  
BKS - Bryan K. Stevens  
RS - Ruben Stoll  
VS - Victor Stoll  
JSt - Jay Sturner  
MCT - Michael C. Todd  
AT - Allan Troyer  
CW - Chloe Walker  
KW - Keith Watson  
CJW - Chris J. Welsh  
MJW - Melinda J. Welton  
SW - Shane Williams  
RW - Randy Winstead  
SZ - Stephen Zipperer

## INSTRUCTIONS TO AUTHORS

*The Migrant* records observations and studies of birds in Tennessee and adjacent areas.

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**NOMENCLATURE:** The scientific name of a species should be given after the first use of the full common name in the text. The scientific name should be italicized and in parentheses. Names should follow the *A. O. U. Check-list of North American Birds* (seventh edition, 1998, or supplements).

**TITLE:** The title should be concise, specific and descriptive.

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