



# THE MIGRANT



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DEVOTED TO TENNESSEE BIRDS

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# THE MIGRANT

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THE TENNESSEE ORNITHOLOGICAL SOCIETY

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(Revised December 2006)

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## NEW BREEDING BIRD RECORDS FOR THE CUMBERLAND MOUNTAINS IN TENNESSEE

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### INTRODUCTION

The *Atlas of Breeding Birds of Tennessee* (Nicholson 1997) is an excellent resource on avian distribution at various scales, and it has extensive records for where certain species have been recorded to breed within the state. The *Atlas* project was designed to sample birds at the scale of 1/6 of a USGS 7.5-minute topographic map (Nicholson 1997); these sampling areas were systematically sampled and designated as blocks. Fieldwork for the *Atlas* project occurred between 1986 through 1991 where all habitat types within a block were visited. *Atlas* workers spent 16-20 hours per block distributed over several visits during a breeding season. Additional data from Breeding Bird Survey (BBS) routes, Breeding Bird Censuses, state and federal wildlife studies, and special surveys of specific species were also incorporated into the final *Atlas* results (Nicholson 1997). Species were designated as Possible Breeding, Probable Breeding, or Confirmed Breeding for each block based on specific criteria regarding breeding behavior, abundance and frequency of detections.

As vegetation changes due to land-use, disturbance and succession, wildlife species can be expected to shift their distributions to best fulfill their habitat requirements. Birds are highly mobile and therefore have the ability to shift their distributions rapidly compared with more sedentary species. The Cumberland Mountains of Tennessee is a very dynamic region in terms of land-use and

vegetation change. There is a long history of extensive coal mining and timber harvesting in many of the higher elevations as well as human development in the lower elevations. Succession on many of the oldest coal mines has taken several decades and has led to a diverse vegetation structure amidst a predominantly forested landscape.

After spending two breeding seasons conducting intensive avian research in this region, we report several new breeding records. Since the publication of the *Atlas* some species may have expanded their ranges into an area such that our records change the current status listed in this publication. In other cases, we are confirming a probable breeding status that was never certain; this was likely due to the remote and often inaccessible mountainous terrain characteristic of many parts of the Cumberland Mountains. Therefore, this region may have been under-represented during the *Atlas* project.

#### STUDY AREA

The Cumberland Mountains are predominantly comprised of mature, mixed mesophytic forest with scattered successional habitat from the surface mining of coal and timber harvests. The mean elevation is 579 m (~1900 ft) and some ridges rise to over 1005 m (~3300 ft). The study sites discussed in this paper are located in Sundquist Wildlife Management Area (WMA) in Anderson, Campbell and Scott counties (Figure 1). The vegetation on these sites consists of a thick herbaceous cover of grasses and forbs with scattered shrubs, saplings, and trees of various ages and densities. Most sightings took place on five reclaimed surface mines — Smoky and Burge Mountains (Fork Mountain USGS quad map, Block 5), Ashlog Mountain (Block USGS quad map, Blocks 3 and 6), and Red Oak and Bootjack Mountains (Duncan Flats USGS quad map, Blocks 1 and 5). Additional sightings occurred on Fork Mountain right-of-way (Fork Mountain USGS quad, Block 6), Buffalo Mountain right-of-way (Windrock USGS quad, Block 1), Red Oak Mountain clearcut (Duncan Flats USGS quad, Block 5), and Flatwoods clearcut (Ivydell USGS quad, Block 6).

Ashlog is a 275-acre ridge-top mine with several large openings and scattered patches of black locust (*Robinia pseudoacacia*) saplings. Smoky Mountain is a 90-acre strip mine with a woodland-like vegetation structure and several areas of standing water, varying from old tailing ponds, marshy depressions, and small seasonal streams. Burge Mountain is a 100-acre surface mine with some ridges that has dense sapling cover and a couple of large openings. Bootjack, a 75-acre mine site, and Red Oak, a 120-acre mine site, are fairly overgrown with mature black locust trees. The herbaceous cover on Red Oak is beginning to decrease due to the shade of the tree canopy while Bootjack still has a dense layer of herbaceous cover. All of the reclaimed mine sites except Red Oak have been burned during the last 5-10 years by arson, a common occurrence in this region. Additional sightings took place on Red Oak and Flatwoods clear cuts that were both harvested approximately five years ago and have a dense cover of saplings and blackberry

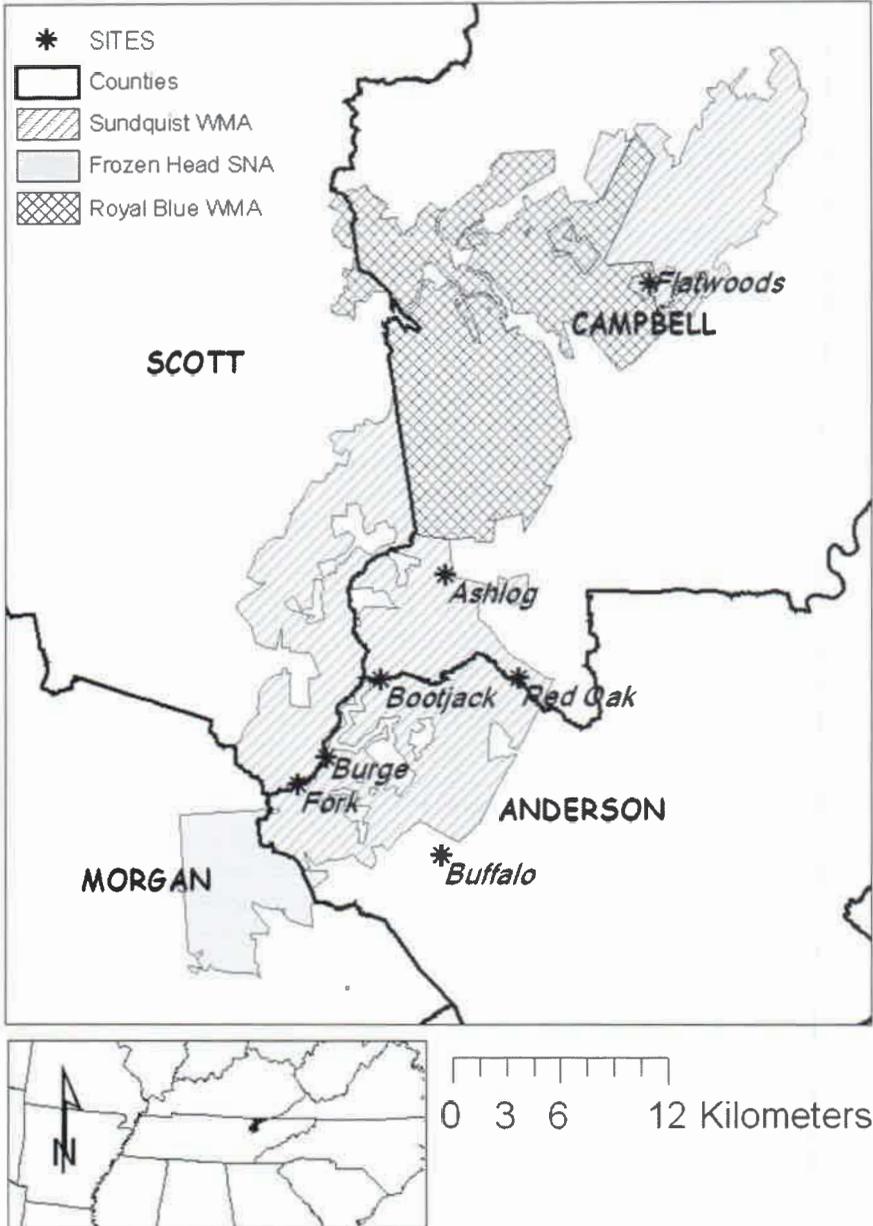


Figure 1: Location of the Cumberland Mountains in Tennessee (inset) and the study sites within the Cumberland Mountains with relation to public land boundaries and county lines.

(*Rubus sp.*) with very little herbaceous cover. Finally, Fork and Buffalo utility right-of-ways (ROW) are on ridge-tops and have a dense cover of blackberry and saplings with a few scattered patches of herbaceous vegetation. All of these sites are considered early to mid successional and are surrounded by mature mixed mesophytic forest.

#### METHODS

While focusing most of our efforts on Golden-winged Warblers (*Vermivora chrysoptera*) for another research project, we documented several species breeding in the region that were previously only suspected or not known to do so (Nicholson 1997). From mid-April to mid-June of 2004 and 2005, we arrived at each of the five reclaimed surface mine sites three to four days per week at sunrise (~0600) and stayed until early afternoon (1300-1500). We also conducted passive mist netting on six sites within this same region in three types of successional habitats from mid-June to mid-July. These sites were Ashlog and Smoky Mountain surface mines, Red Oak and Flatwoods clear cuts and Fork and Buffalo utility ROW. The locations of these sites are also illustrated in Figure 1. While conducting research on Golden-winged Warblers, we documented the breeding activities of many additional species in our field notebooks.

#### OBSERVATIONS

In this section we discuss possible changes to breeding status reported for several species in the *Atlas of Breeding Birds of Tennessee* (Nicholson 1997). Our observations are organized into four main sections based on the species' breeding statuses presented in Nicholson (1997). First, we present sightings and confirmation of species previously considered as probable breeders (Veery, Prairie Warbler and Blue-headed Vireo - see Table 1 for scientific names). Second, we present sightings of species previously considered as possible breeders (Northern Bobwhite and American Woodcock). Third, we present sightings of species only previously confirmed breeding in neighboring counties (Rose-breasted Grosbeak and Black-throated Blue, Blackburnian, and Canada Warblers). Fourth, we present sightings of species previously considered not possible breeders in this region (Red-headed Woodpecker, Least Flycatcher, Grasshopper Sparrow and Common Raven). All sightings are summarized in Table 1.

In these observations, we use the same breeding codes used in Nicholson (1997) for consistency and to facilitate comparisons between our recordings and those found in the *Atlas*. The *Atlas* codes used in the following observations are as follows:

H = species observed in breeding habitat during the breeding season

F = five or more singing males observed on single visit to block, widely distributed over block during breeding season.

P = pair observed in suitable habitat during breeding season

T = territorial behavior presumed by presence of singing male at same location on at least two occasions at least one week apart, or by chasing others of same species.

NB = nest building, where the actual unfinished nest is seen

FY = adult carrying food for young

FL = recently fledged or downy young, still dependent on parents

ON = occupied nest observed

### *Sighting and confirmation of probable breeders*

#### *Veery*

The Veery was identified as a probable breeder during the Tennessee *Atlas* Project (Nicholson 1997). We detected a single Veery singing on 18 May 2004 on Red Oak Mountain (*Atlas* code=H) and a hatch-year bird was banded on 21 July 2005 at Fork Mountain ROW (*Atlas* code=H). The fact that their fall migration does not typically begin until late-August (Moskoff 1995) supports the possibility of a small breeding population in the Cumberland Mountains. We recommend that the Veery maintain its status as a probable breeder and that more time be spent trying to confirm its status as a breeder in this region.

#### *Prairie Warbler*

The Prairie Warbler was identified as a probable breeder during the Tennessee *Atlas* Project (Nicholson 1997). Prairie Warblers are certainly breeding in the Cumberland Mountains. Numerous pairs were documented in several locations throughout Campbell and Anderson counties with several adults in breeding condition (i.e. cloacal protuberances and brood patches detected while banding and *Atlas* codes=F, P, T), and days-old hatch year birds were banded (*Atlas* code=FL). We have therefore confirmed that the Prairie Warbler is breeding in Campbell and Anderson counties.

#### *Blue-headed Vireo*

The Blue-headed Vireo is considered a probable breeder in Campbell and Anderson counties, and it has been confirmed as breeding in Morgan County (Robinson 1990, Nicholson 1997). We observed numerous individuals in breeding condition on the Anderson/Scott County line, and we also documented many territorial birds (*Atlas* code=F, P, T) and banded adults in breeding condition (i.e. cloacal protuberances and brood patches detected while banding) and hatch-year birds on Ashlog Mountain in Campbell County (May-July 2004-2005). Furthermore, we also found a Blue-headed Vireo nest on Bootjack Mountain that lies along the Anderson/Campbell County line (*Atlas* code=ON). We therefore confirm that the Blue-headed Vireo is breeding in Campbell and Anderson counties.

**Table 1: Species documented during the breeding seasons of 2004 and 2005 in Campbell and Anderson counties that were not previously confirmed to breed in these counties.**

<i>Species</i>	<b>Previous status</b>	<b>New status</b>
Northern Bobwhite* ( <i>Colinus virginianus</i> )	Possible	Probable
American Woodcock* ( <i>Scolopax minor</i> )	Possible	Probable
Red-headed Woodpecker ( <i>Melanerpes erythrocephalus</i> )	Not possible	Not possible
Least Flycatcher ( <i>Empidonax minimus</i> )	Not possible	Possible in Anderson and Campbell
Common Raven ( <i>Corvus corax</i> )	Not possible	Probable
Veery* ( <i>Catharus fuscescens</i> )	Probable	Probable
Blue-headed Vireo* ( <i>Vireo solitarius</i> )	Probable	Confirmed
Black-throated Blue Warbler ( <i>Dendroica caerulescens</i> )	Confirmed in Frozen Head	Confirmed in Frozen Head
Blackburnian Warbler* ( <i>Dendroica fusca</i> )	Confirmed in Frozen Head	Confirmed in Anderson and Campbell
Prairie Warbler* ( <i>Dendroica discolor</i> )	Probable	Confirmed
Canada Warbler* ( <i>Dendroica canadensis</i> )	Confirmed in Frozen Head	Probable in Anderson
Rose-breasted Grosbeak* ( <i>Pheucticus ludovicianus</i> )	Only two confirmed	Confirmed in Anderson
Grasshopper Sparrow ( <i>Ammodramus savannarum</i> )	Not possible	Probable in Campbell

The previous status for these species was taken from Nicholson (1997); new status is based on the observations discussed here.

Species with asterisks (\*) were confirmed breeding while the others were documented to be present for one or more days.

*Atlas* codes are from Nicholson (1997). See text for details of sightings and for *Atlas* code definitions.

Site(s) observed in 2004-05	Dates Observed	Atlas Codes
Bootjack (1) and Ashlog (5) Mountains	May July, 2004 and 2005	H, T
Ashlog (1) and Buffalo (1)	May July, 2005	H, T
Ashlog (1) and Bootjack (1)	May 21, 2004 and May 8, 2005	H
Bootjack(1) and Smoky (1)	April 26 & June 17 2004 and April 30 2005	H
Burge, Red Oak, Smoky and Bootjack Mtns	April 17, May 6,11, 20, 30, 2004 and June 9-10, 2005	H, T
Red Oak Mtn (1) & Fork ROW (1)	May 18, 2004 and July 21, 2005	H
Ashlog (>5), Smoky (1), Bootjack (>3) Mtns	May July, 2004 and 2005	F, T, P, ON
Ashlog (1)	May 10, 2004	H
Bootjack (>5), Red Oak (>2), Massengale (1) and Ashlog (>10) Mtns	May July, 2004 and 2005	F, T, NB, FY, FL
Ashlog (1 -5), Bootjack (1) and Flatwoods clearcut (>5)	May July, 2004 and 2005	F, P, T, FL
Fork Mtn ROW (1)	Mid-July, 2004 and 2005	No appropriate codes; see text for details
Burge (>3), Smoky (1), & Red Oak (2) Mtns	May July, 2004 and 2005	T, F, NB
Ashlog (1) and Cross Mtns (>5)	May12, 14, 2004	H, T, F

### *Sightings of possible breeders*

#### *Northern Bobwhite and American Woodcock*

The Northern Bobwhite and American Woodcock are currently considered possible breeders (Nicholson 1997) in the Cumberland Mountains region. Several Northern Bobwhites were documented by sight and sound on Ashlog Mountain throughout the breeding season and one was documented on Bootjack Mountain (May-July 2004-2005) (*Atlas* code=T). We also heard an American Woodcock displaying (28 April 2005), flushed one repeatedly from the same location on Ashlog Mountain, and captured one male on Buffalo Mountain on 5 July 2005 (*Atlas* codes=T, H). We therefore recommend that the Northern Bobwhite and American Woodcock breeding status be changed from possible to probable breeders in Anderson and Campbell counties and that more attention is placed on confirming these species as breeders.

#### *Species only previously confirmed in neighboring counties*

Nicholson (1987, 1997) report confirmed breeding of Black-throated Blue Warblers, Blackburnian Warblers, and Canada Warblers only in Frozen Head State Natural Area (SNA) in Morgan County, but not for the neighboring three counties. Similarly, Rose-breasted Grosbeaks were confirmed to breed in Morgan and Campbell counties (Robinson 1990, Nicholson 1997), but not in Anderson County. We observed these species during the breeding season outside of these previously confirmed locations, and all except the Black-throated Blue Warbler were confirmed to be breeding in Anderson and Campbell counties.

#### *Black-throated Blue Warbler*

The Black-throated Blue Warbler was only observed foraging for one day in early May on Ashlog Mountain (*Atlas* code=H). Because this sighting was quite early in the season, this individual was likely a migrant. We therefore do not recommend the status of the Black-throated Blue Warbler be changed at this time for Anderson or Campbell counties.

#### *Blackburnian Warbler*

We observed Blackburnian Warblers on multiple sites in Anderson and Campbell counties throughout the summer (May-July, 2004-2005) and witnessed nest building behavior, juveniles begging and adults carrying food on several occasions (*Atlas* codes=F, T, NB, FY, FL). We therefore recommend that the Blackburnian Warbler obtain confirmed breeding status in Campbell and Anderson counties.

#### *Canada Warbler*

We observed the same female Canada Warbler in the exact same location (Fork Mountain utility ROW) in both 2004 and 2005 within two weeks of the same

date (mid-July). This after hatch-year female had a brood patch when we first captured her in 2004; we recaptured the same individual (identified by band number) at the same site in 2005 in the same breeding condition (no appropriate *Atlas* codes). Fork Mountain is quite close to Frozen Head SNA such that this individual could be dispersing after a recently completed nest, but the presence of a brood patch and the recapture in the exact same location in two years lends evidence of breeding at this site located near the Anderson/Scott County line. Our observations support documentation of probable breeding status for Canada Warbler in Anderson County, and more attention should be placed on confirmation of breeding in this site.

*Rose-breasted Grosbeak*

Rose-breasted Grosbeaks were heard singing in numerous locations, including Anderson County, and we banded several adult and hatch-year birds (*Atlas* codes=T, F). While this provides fairly strong evidence of breeding, we also observed a female with fine nesting materials being escorted by a male on 7 May 2005 (*Atlas* code=NB). We therefore recommend that the breeding status of the Rose-breasted Grosbeak be changed to confirmed breeder in Anderson County.

*Birds with a not possible breeding status*

We observed four species previously considered as not possible breeders (Robinson 1990, Nicholson 1997) the Red-headed Woodpecker, Least Flycatcher, Grasshopper Sparrow and Common Raven.

*Red-headed Woodpecker*

One individual male Red-headed Woodpecker was observed calling and foraging in dead trees on 21 May 2004 on Ashlog Mountain, and another individual was observed doing the same on 8 May 2005 on Bootjack Mountain (*Atlas* code=H). Due to the early date of these observations, the lack of more sightings, and the fact that they are considered rare at high elevations within the state (Nicholson 1997) these birds were likely migrating, and breeding status of this species should not be changed.

*Least Flycatcher*

One male Least Flycatcher was seen and heard singing on 26 April and 17 June 2004 on Bootjack Mountain. Another Least Flycatcher was observed singing on Smoky Mountain on 30 April 2005. The two dates in April correspond well with the typical early migration dates of this species (Briskie 1994), but the observation in June suggests a potential breeding individual (*Atlas* code=H). These sites were visited several times a week before and after this date, and this was the only day this species was detected. We recommend that the breeding status of the Least Flycatcher be changed from not possible to possible for Anderson and Campbell counties based on these sightings during the breeding season.

*Grasshopper Sparrow*

A male Grasshopper Sparrow was recorded singing in a large, open area on Ashlog Mountain on 12 and 14 May 2004 (*Atlas* code=H). While this was suitable breeding habitat for this species, it was not observed again, and this site was also visited several times per week for the remainder of the breeding season. On Cross Mountain, a nearby ridge in the southwest corner of the Jacksboro quad map (Block 3, Campbell county), at least five territorial Grasshopper sparrows were documented during visits in May of 2005 and 2006 (*Atlas* code=F, T). Cross Mountain has a large grassland along most of its ridge resulting from coal mine reclamation where no woody vegetation was planted. Due to the occurrence of numerous birds on this mountain on consecutive years, we recommend that the breeding status of the Grasshopper Sparrow be changed to probable in Campbell County.

*Common Raven*

We recorded Common Ravens several times throughout the Cumberland Mountains in both 2004 and 2005, yet Common Ravens are only thought to breed in the Blue Ridge Mountains of Tennessee along the state line with North Carolina (Nicholson 1997). Individuals were observed calling and flying either singly, in pairs, or in groups of three. These observations took place mostly on Burge, Smoky, Red Oak, and Bootjack Mountains and on the following dates: 17 April; 6, 11, 20 and 30 May in 2004; and 9-10 June in 2005 (*Atlas* codes=H, T). Due to their gregarious and vocal nature, we were surprised to see fewer individuals in 2005 and to never find evidence of nesting, particularly with the presence of exposed rock faces on several of these sites. We recommend that the Common Raven breeding status be changed to probable for the Cumberland Mountains region and that more effort be placed on confirmation of breeding.

## CONCLUSIONS

We confirmed four species to be breeding in locations not mentioned in the *Atlas* of the Breeding Birds of Tennessee (Nicholson 1997): Blue-headed Vireo, Prairie Warbler, Blackburnian Warbler, and Rose-breasted Grosbeak. We also suggest that four species receive probable breeding status where they were previously considered not possible or only possible breeders: Northern Bobwhite, American Woodcock, Common Raven and Canada Warbler (Table 1). These new breeding records may be due to range expansions, habitat succession, or simply increased time spent in previously under-visited areas. Most species mentioned are considered to breed in nearby regions or counties such that these new records are likely due to small increases in breeding range and/or changes in distribution due to dispersal events. Indeed, all three factors — succession, dispersal and sampling — may simultaneously be responsible for these new breeding records.

In terms of succession, the Cumberland Mountains landscape is quite dynamic with new mining and timber harvests occurring frequently, and old mines slowly reverting into woodlands and young forests. The reverting surface mines that

have mature woody cover and a thick herbaceous understory are reminiscent of the open oak woodlands mentioned by Brewster (1886) on his visit to the southern Appalachians in 1885. Through our banding efforts and intensive monitoring, we have documented very high bird diversity in these sites because both early and late successional species inhabit them during the breeding season. Maturation of these older mines has certainly occurred since the *Atlas* field work in the late 1980s; however, increased timber harvesting has also occurred during this time period following the establishment of a chip mill in the region in 1993. The increased timber harvests may be responsible for the new Prairie Warbler breeding status, whereas the maturation of mine sites into woodlands may be responsible for the confirmed breeding status of Rose-breasted Grosbeaks since they prefer second growth woodlands (Wyatt and Francis 2002). Ultimately, it is difficult to know whether successional changes alone are responsible for these records without a more in-depth analysis of landcover change since the *Atlas* project.

While range expansion and habitat succession likely have played a role in the new breeding records, increased visitation of the rugged and often inaccessible Cumberland Mountain terrain may also be a factor. During the *Atlas* project, the Cumberland Mountains region was sampled as extensively as other locations within the state (Nicholson 1997); however, some species discussed here may have occurred in such low abundances that they were not detected in the limited time spent in each block. Indeed, the fieldwork we were conducting on Golden-winged Warblers during 2004 and 2005 provided consistent visitation of several remote sites during the breeding season.

#### LITERATURE CITED

- BREWSTER, W. 1886. An ornithological reconnaissance in western North Carolina. *Auk* 3: 94-112
- BRISKIE, J.V. 1994. Least Flycatcher (*Empidonax minimus*). In *Birds of North America*, No. 99 (A. Poole and F. Gill, eds.). The Birds of North America, Inc., Philadelphia, PA.
- MOSKOFF, W. 1995. Veery (*Catharus fuscescens*). In *Birds of North America*, No. 142 (A. Poole and F. Gill, eds.). The Birds of North America, Inc., Philadelphia, PA.
- NICHOLSON, C.P. 1987. Notes on high elevation breeding birds of Frozen Head State Natural Area, Tennessee. *Migrant* 58(2): 39-43.
- NICHOLSON, C.P. 1997. *Atlas of Breeding Birds of Tennessee*. The University of Tennessee Press. Knoxville, USA.
- ROBINSON, J.C. 1990. *An Annotated Checklist of the Birds of Tennessee*. The University of Tennessee Press. Knoxville, USA.
- WYATT, V.E. and C.M. FRANCIS. 2002. Rose-breasted Grosbeak (*Pheucticus ludovicianus*). In *Birds of North America*, No. 692 (A. Poole and F. Gill, eds.). The Birds of North America, Inc., Philadelphia, PA.

## MINUTES OF THE TOS 2005 SPRING DIRECTORS MEETING

The spring meeting of the Tennessee Ornithological Society (TOS) was held on 29 April-01 May 2005 in Memphis, Tennessee. Field trips were offered to the following locations: Shelby Farms, Shelby Forest, the Earth Complex, and Hatchie National Wildlife Refuge.

The meeting of the TOS Directors was called to order by TOS President Virginia Reynolds. Donna Ward, Recording Secretary, reported a quorum present. Richard Connors and Carolyn Bullock read the Minutes of the fall 2004 meeting. The motion was made and seconded that the Minutes be accepted as read. The vote of the Directors was unanimous to accept the motion.

### REPORTS OF OFFICERS AND DIRECTORS AT LARGE

#### Vice-Presidents

**East Tennessee and Middle Tennessee:** No Report

**West Tennessee:** Dick Preston talked about the Chimney Swift Project that Memphis chapter members have worked very hard on to complete. He asked members to read about the project by checking the information contained on a display easel.

#### Directors-at-Large

**East Tennessee and Middle Tennessee:** No Report

**West Tennessee:** President Reynolds mentioned that Louise Ward, the Director from West Tennessee, has died. She stated that Mrs. Ward was a wonderful member, and a loss to the birding community.

**Secretary's Report:** Donna Ward, expressed appreciation to TOS members for their support during her term as secretary.

**Treasurer's Report:** Mac McWhirter distributed copies of the balance sheet as of 31 December 2004. He mentioned that the total assets include \$212,560.77 and investments include an amount of \$211,207.92. He has set up a liability for the three *Migrants* that had not been published at the end of the year, which were Volume 75, numbers 2, 3, and 4. He listed an amount of \$462.00 for grants and awards, and \$437.00 for the unearned 2005 income. He has set up a reserve based on life memberships based on a 30-year average. He mentioned a life membership reserve of \$81,510, which leaves an amount of \$123,045.74 for the general reserve. He listed an amount of \$8,132 in Total Dues and Membership fees for the year. He noted the following expenses: a \$2,000 donation to Radnor Lake, approved by members, and an amount of \$2,348 for Conservation and Research Grant Awards. He noted that the excess expenses over revenues includes an amount of \$4,330.46. He discussed the 2004 membership report, listing a total of 803 members. He said that the checking account total is \$4,145.65, investments \$210,301.77, with total assets \$214,447.42. He said that 80.85 percent of all dues have been paid.

President Reynolds thanked Treasurer McWhirter for a complete and comprehensive report.

**Curator:** No Report

**Migrant Editor:** Chris Welsh stated that he is appreciative to members for submitting articles to *The Migrant*. He said that he has been contacted by EBSCO Publishing Company. The company executives desire to place *The Migrant* on their database. It would reach the international community. Ron Hoff asked, What does EBSCO do? Treasurer McWhirter noted that this company is an intermediary between academic institutions and scientific journals. Groups pay EBSCO to have an electronic library. President Reynolds made the suggestion that we contact Chuck Nicholson and ask him to come to the fall meeting and give us a definitive cost and a Cost Benefit Ratio as to how many people would use the program, how expensive it is, and how much the fixed cost would be to maintain it.

Mike Roedel, state ornithologist, has looked into scanning the entire *Migrant*. He said that *The Migrant* is small in photo content and imagery, and that people can search the entire database to find the issues that they are interested in instead of downloading a specific article. Mike would like to plan on scanning this. He believes that the TWRA and the TVA, with the permission and cooperation of the TOS could accomplish it and that the TOS would retain ownership.

Dan Mooney made the motion and Martha Waldron second that the TOS establish a Publications Committee consisting of five members, including Chris Welsh, Theresa Graham, Mike Roedel, Dan Mooney, and Chuck Nicholson. The Publications Committee will work on this request from EBSCO and be a resource for all TOS publications, on-line and in print. The vote of the Directors was unanimous to accept the motion.

#### COMMITTEE REPORTS

**Nominating Committee:** Richard Connors, Nominating Committee Chairman, listed the following proposed officers of the TOS for the 2005-2007 term:

President Danny Gaddy

Vice-Presidents: East Tennessee - Rack Cross  
Middle Tennessee - Melinda Welton  
West Tennessee - Linda Zempel

Treasurer Mac McWhirter

Curator Chuck Nicholson

*Migrant* Editor Chris Welsh

*Tennessee Warbler* Editor Theresa Graham

Directors-at-Large: East Tennessee - Dee Eiklor  
Middle Tennessee - Stephen Routledge  
West Tennessee - Donna Ward

Donna Ward agreed to serve as secretary until a member is elected to the office. Richard Connors expressed appreciation to Theresa Graham and Rick Knight for serving on the nominating committee with him.

**Finance Committee:** Ron Hoff expressed the concern that it has been 18 years since there has been a raise in dues in the TOS organization. He stated that discussion at the winter meeting involved raising the dues from \$10.00 to \$18.00 for individuals. That is an 80 percent raise. He said that members need to have sufficient income for various projects, and that eventually there might need to be a review of the TOS constitution regarding dues. President Reynolds reminded the Directors that members have been asked to contribute to the Smith Bend Project. She stated that the membership of TOS as individuals contributed more than any other organization to this project. After considerable discussion, the Directors voted to increase the dues of the TOS organization, with one exception.

**Conservation Research and Funding Committee:** Melinda Welton, Chairperson of the Conservation Policy Committee, presented the following report: The Board of Directors voted to establish a new Conservation Policy Committee at the 2002 TOS Fall Meeting. This committee will study environmental issues of importance to Tennessee birdlife, and develop policy recommendations. These recommendations must be approved by the Board of Directors (or, in an emergency, by the Executive Committee) in order to become official TOS policy. The committee will have six members, including the chairperson. TOS members are encouraged to bring conservation issues to the attention of the Committee and are invited to participate in developing policy recommendations with the Committee.

The committee members include Bob Hatcher, Susan McWhirter, Charlie Muise, Dick Preston, David Vogt, and Melinda Welton, Chair.

The letters drafted since the last Spring TOS meeting include the following:

- Urged TVA's request to reject the proposed sale of public lands at Little Cedar Mountain, Nickajack Lake for the development of a commercial marina, private homes, and golf course.

- Comment on the FWS clarification excluding non-native bird species from the Migratory Bird Treaty Act. This was done in response to the need to control Mute Swan populations in the Delaware Bay area.

- Sent letters and made calls to Congress and Senate to reject amendments and budget proposals that would allow drilling oil in the Arctic National Wildlife Refuge.

- Drafted comments on the Final EIS on TVA's Reservoir Operations Study expressing our concerns that maintaining higher water levels in many reservoirs until after Labor Day will be detrimental to many shorebird species.

- Continued to monitor TVA's progress on completing the Draft EBS governing the leasing of mineral rights to mine the coal under Royal Blue WMA. The earliest the Draft will be released is sometime in June.

- Sent a letter to the Shelby County mayors urging care be taken when constructing planner sewer line through Shelby Farms not to damage important wetland habitat.

Bird Conservation Alliance sign-on letters:

- Urging the FWS to include funding for a final year of research on lead poisoning in Trumpeter Swans.
- Urging the EPA not to give the Louisiana Department of Agriculture an exemption to use granular carbofuran a substance known to be poisonous to birds.
- Urging the Department of the Interior to reject the transfer of NWR and Park lands to private entities for management.

Dick Preston provided Directors with forms to take to their chapters to be sent to senators in support of birding trails, scenic overlooks, and roadside easements. He mentioned the Chickasaw National Wildlife Refuge in West Tennessee and the importance of members contacting their senators regarding the purchase of important property holdings there.

**Cumberland Alliance:** President Reynolds announced that Danny Gaddy, president-elect, has asked Jerry Ingles from East Tennessee, to serve on the Cumberland Alliance.

**Collateral Materials:** Carolyn Bullock announced that she has copies of John Robinson's book *An Annotated Checklist of the Birds of Tennessee* by John Robinson for \$10.00. She also has patches and decals for sale.

## OLD BUSINESS

The fall meeting will be in Greeneville, Tennessee on 1 October. Further information about the meeting will be included in the summer issue of *The Warbler*.

## NEW BUSINESS

Mike Roedel said that Fred Alsop asked about the possibility of putting together a book about the birds of Tennessee. He is envisioning a coffee table book with plates. He has asked Ray Harm, an artist, to provide the plates for the book. Fred is working with Jason Mitchell, who is a natural heritage biologist with the TVA. They are putting together a distribution and natural history of each bird found in Tennessee. Fred has approached the University of Tennessee Press. They are interested in printing the book.

Mike Roedel also noted that John Robinson has approached the TOS with the idea of putting together an updated version of the *Annotated Checklist of the Birds of Tennessee*. John is looking for a second author for the book. John plans for his book to be ready in two years, and Fred plans for his book to be ready in five years. John wants to use his book to sell a CD about the birds of Tennessee.

President Reynolds asked whether the TOS would be asked to make a financial contribution to these projects. Does the TOS as an organization feel they should be involved with this project? The Directors voted to defer acceptance of the two books until the publications committee has done further study.

**ANNOUNCEMENTS:** Lisa Trail of the Highland Rim chapter announced the Ultralite Crane Festival in Tullahoma, Tennessee on Memorial Day weekend. There will be several speakers who will talk about wildlife, and the funds from the event will be used to support Operation Migration. Ruth Luckado will be leading a bird walk in the Tullahoma area, in the hopes of seeing the Henslow's Sparrow. Ron Hoff stated that IJAMS Nature Center in Knoxville has been chosen to receive two live Whooping Cranes.

Virginia Reynolds thanked the Directors for their support, input, and assistance during her term of office as president. The motion was made to adjourn the meeting. The motion was accepted.

At the annual dinner meeting 30 April, Jim Ferguson presented the Distinguished Service Awards to the following persons:

- Nelle Moore, a member of the Memphis chapter since 1944 and state president from 1979-1981,
- Theresa Graham, who joined the TOS in 1984 and has been the editor of *The Warbler* for 12 years, and
- John A. "Tony" Koella, joined the TOS in 1967, and was state president from 1983-85.

Donna Ward,  
Recording Secretary

DISTINGUISHED SERVICE AWARD:  
NELLE MOORE

This Distinguished Service Award honors Nelle Moore, a member of the Tennessee Ornithological Society and of the Memphis Chapter since 1944. Her record of outstanding service matches her longevity of membership. Nelle served as President of the Society from 1979 to 1981. Six years later she was called upon by the President to serve as chairperson of the committee to study and propose revisions to the Society's constitution to better reflect the actual functioning of the organization. This was the first comprehensive review of the Society's constitution since 1949, and the committee's recommendations led to the adoption of extensive changes at the Annual Meeting in 1987.

On the Chapter level, Nelle was an active participant in all functions of the Chapter, and participated in years of Christmas Counts and other bird surveys. She held numerous chapter offices, including that of President from 1950 to 1952. Nelle was also active in the Citizens to Preserve Overton Park, a city treasure containing an old growth forest in the center of Memphis. This park would have been decimated by the proposed construction of Interstate Highway 40. A grass roots campaign of Little old ladies in tennis shoes, many of whom were from the Memphis Chapter of TOS, managed to defeat the Tennessee and U.S. Departments of Transportation and saved Overton Park.



Known as an accomplished speaker, Nelle gave outstanding programs, including a memorable one of a late 1970s trip to the Galapagos Islands led by Ben and Lula Coffey that was presented locally and at an annual meeting. For more than sixty years Nelle has been a stalwart member and, through her presentations to civic groups, an ambassador of goodwill for TOS.

DISTINGUISHED SERVICE AWARD:  
THERESA GRAHAM

Theresa Graham joined the Memphis Chapter of TOS in 1984 and has been an involved member ever since. She has filled several offices in the chapter including that of vice-president and program chairman. An enthusiastic birder, she participates in chapter hikes and forays, and she ran the Moscow Breeding Bird Survey for ten years.

In addition, for many years she has done an outstanding job in preparing and seeing to the publication of the chapter directory. Besides listing members, the directory contains a complete calendar of the club's meetings, programs and hikes, as well as a great deal of other information, such as maps of local birding hot spots, particularly useful for new members. For the 2005 directory, the 75th anniversary of the Memphis Chapter as well as the 90th of the Society, Theresa prepared the directory as a special tribute to Ben and Lula Coffey, complete with historic photographs.

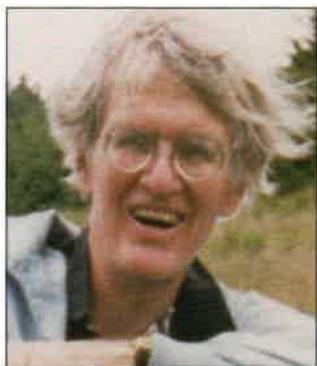
On the state level she has served as a state director and is currently serving on the nominating committee as the representative from West Tennessee. Theresa participated in all years of the Breeding Bird *Atlas* of Tennessee.

Theresa's diligent efforts as editor of *The Tennessee Warbler* for the past twelve years have made the newsletter a model of communication within the Society. The newsletter disseminates information on issues relevant to the goals of the Society, on meetings, forays and special hikes. It reports on studies underway by members and actions by other organizations that may affect the environment and the Society. Increasing the knowledge of activities of the Society and sharing news between the chapters fosters the sense of purpose of the Society and furthers its long-term goals.



## DISTINGUISHED SERVICE AWARD: JON A. "TONY" KOELLA

Jon A. "Tony" Koella joined the Knoxville Chapter of the Tennessee Ornithological Society (TOS) in 1967 and became a leader of both the local chapter and the state organization. He made important contributions to conservation by serving the State of Tennessee as Assistant Conservation Commissioner in the mid-1970s. He referred to this job as his all-time favorite because this position gave him the unique opportunity to visit every state park in Tennessee, and it presented unlimited birding opportunities on a paycheck. He discovered the abundance of wading birds and shorebirds at Rankin Bottoms in Cocke County, now recognized as one of the most important shorebird areas in East Tennessee.



Tony served as TOS President from 1983 to 1985. During his term, he challenged members to broaden the base of participation in TOS and to involve more young people by sparking their interest in birds. Tony also urged local chapters to form conservation committees. He helped launch the Tennessee Breeding Bird *Atlas* Project, which was formally approved by TOS at the 1985 Annual Meeting. He was also a strong supporter of the Peregrine Falcon Restoration Project.

In 1974, he and Ken Dubke of Chattanooga helped establish the Highland Rim Chapter of TOS. Tony also served as Vice-President of the Knoxville Chapter in the late 1980s. Tony was a dedicated participant in bird counts including the regular local counts, Breeding Bird Surveys, and TOS forays. Tony avidly kept a state bird list and worked hard to increase it. Although he often birded alone, he was quick to share his discoveries and special birding locations with other club members. When he found a rare Harris' Sparrow at his White Pine farm, birders came from all over. Tony showed many people one of East Tennessee's last Bachman's Sparrow locations near Crab Orchard. He was very good at finding such birding places, the most notable of which was probably Rankin Bottoms. When Tony first started reporting his sightings of over 100 Great Egrets and flocks of over a hundred shorebirds on the mudflats of Rankin, few people had ever heard of such numbers in East Tennessee. Tony led many field trips to Rankin, and many people learned about this special place through Tony.

"Tony was a birder's birder," said his wife Mary Laura. "He could stand out in the middle of a field with his eyes closed and hear every bird conversation within his hearing range — every call, every chip note, every little pip — and tell you what birds were present, what they were saying, and where and how many there were. He would say, 'A Cerulean Warbler is in that tree and at least five American Goldfinches are flying overhead.' And he'd be right."

Tony was awarded the TOS Distinguished Service Award at a ceremony at Ijams Nature Center in June 2005. Sadly, he passed away in March of 2006.

## 2005 TENNESSEE NORTH AMERICAN MIGRATION COUNT

RON HOFF, state compiler  
282 Hackworth Ln., Clinton, TN 37716

This was the ninth consecutive year for the Tennessee North American Migration Count. Data were recorded by 115 observers (the lowest total ever) from 17 counties this year, producing 181 species and 40,591 individuals (Table 1). Both of these numbers were the lowest totals since the first year of the count in 1997. The birds/party hour ratio of 98.6 was slightly above the average for the last 8 counts (95.1). The weather was generally mild across the state, but almost every count experienced some rain (sometimes heavy) and windy conditions. Temperatures ranged from 58-85° F. No new species were recorded this year, leaving the all-time species total for the count at 258. Lake County in northwest Tennessee was not covered this year. This is usually the count with the highest species totals and also many species that are hard to find elsewhere in the state. No counts were run in the higher elevations of the eastern mountains resulting in some missed species there as well. Sixteen species of warblers were recorded in noticeably low numbers or absent for the first time in count history, while Worm-eating Warbler and Louisiana Waterthrush set new high count records. New high counts for Eurasian Collared-Dove and Brown-headed Nuthatch seem to reflect the expansion of these two species into the state.

Notable finds for the count included Snow Goose, Merlin (3<sup>rd</sup> count record), Sanderling (2<sup>nd</sup> count record), Black Tern, Alder Flycatcher (3<sup>rd</sup> count record), Connecticut Warbler (recorded for the 4<sup>th</sup> consecutive year), and Henslow's Sparrow. The following species were missed on this count for the first time in count history: Lesser Scaup, Common Loon, Caspian Tern, Nashville Warbler, Blackburnian Warbler, Wilson's Warbler, and White-crowned Sparrow. The following species were recorded in record high numbers for this count: Wild Turkey, Least Bittern, Stilt Sandpiper, Eurasian Collared-Dove, Black-billed Cuckoo, Brown-headed Nuthatch, House Wren, Worm-eating Warbler, Louisiana Waterthrush, Blue Grosbeak, and Painted Bunting. The following species were recorded in record low numbers for this count: Blue-winged Teal, Northern Bobwhite, Pied-billed Grebe (tied for lowest ever) Great Blue Heron, Little Blue Heron, Cattle Egret, Black-crowned Night-Heron, Red-shouldered Hawk (tie), Broad-winged Hawk, American Coot, Greater and Lesser Yellowlegs, Wilson's Snipe, Ring-billed Gull, Forster's Tern (tie), Great Horned Owl (tie), Barred Owl, Common Nighthawk, Chimney Swift, Downy Woodpecker, Philadelphia Vireo, Horned Lark, Northern Rough-winged Swallow, Carolina Chickadee, Red-breasted Nuthatch (tie), Gray-cheeked and Swainson's Thrushes, Gray Catbird, Tennessee Warbler, Yellow Warbler, Chestnut-sided Warbler, Magnolia Warbler, Cape May Warbler, Black-throated Blue Warbler, Yellow-rumped Warbler, Black-throated Green Warbler, Palm Warbler, Bay-breasted Warbler, Blackpoll Warbler, Northern Waterthrush, Canada Warbler, Rose-breasted Grosbeak, and Common Grackle.

## COUNTY SUMMARIES

**Anderson County** — 1030-1230. Weather: cloudy with some showers. Although an abbreviated count, the observers managed to find several species of shorebirds. Observers: Sandy Perry and Herbie Wolford.

**Blount County** — 0430-2115. Weather: cloudy with intermittent rain including downpours; 58-81° F. Areas covered: Alcoa (Alcoa Greenbelt, Alcoa Marsh); Friendsville; Great Smoky Mountains National Park (Cades Cove, Foothills Parkway, Schoolhouse Gap Trail; Kyker Bottoms; Louisville (Ish Creek, Louisville Point Park, Phelps's Dairy, Scenic Point); Maryville (Maryville College Woods, Maryville Greenbelt); Northeast Blount County; Rockford; Townsend. Highlights of the count included Yellow-crowned Night-Heron, Bald Eagle, Sora, Black-billed Cuckoo, Horned Lark, Brown-headed Nuthatch, and Swainson's and Connecticut Warblers. Observers: Jean J. Alexander (compiler: 3908 Riverview Dr., Maryville, TN 37804; jjadmj@infionline.net), Warren Bielenberg, Fae A. Burkhart, Richard E. Davis, Marian D. Fitzgerald, Kim J. Henry, Thomas D. Howe, David M. Johnson, John A. Koella, Charlie Muise, Tracey Muise, William A. Smith, and June D. Welch.

**Bradley County** — 0630-1930. Weather: windy and thunder showers; 60-85°F. Although this was a partial count, the observers managed to find a Wild Turkey and a Brown-headed Nuthatch. Observers: Janet and Marty Paige.

**Cocke County** — 0930-1330. Weather: overcast with wind and showers at midday, turning partly cloudy and calm later; 72-78° F. This count was wholly within the Rankin Wildlife Management Area, which is particularly good for Double-crested Cormorants and Prothonotary Warblers. Other nice finds included Red-headed Woodpecker (relatively scarce in east TN), Warbling Vireo, and Cedar Waxwing. Observers: Marcia Davis, Leslie Gibbens, Don Miller, Linda Northrup, Michael Sledjeski (compiler: 778 Serence Way, Del Rio, TN, 37727; mtnsylva@msn.com), and Stan Wallace.

**Hamilton County** — 0500-1800. Weather: clear in the a.m., turning cloudy with thunderstorms in the afternoon and winds SW 17mph; 64-81° F. Highlights included Cattle Egret, Least Bittern, Merlin, Forster's Tern, Barn Owl, Gray-cheeked Thrush, Fish Crow, Philadelphia Vireo, Canada Warbler, and Bobolink. Observers: David Aborn, Harold Birch, Gary Brunvoll, Kevin Calhoun (compiler: 934 Craven's Terrace, Lookout Mtn., TN 37409; KAC@tennis.org), Janice Chadwell, Jim Eager, Danny Gaddy, William Haley, Dennis Harris, John Henderson, Daniel Jacobson, Jonnie Sue Lyons, Judy Newsome, David Stone, David Vogt, Cynthia Wilkerson, and Jim Wilkerson.

**Henry County** — 0630-1500. Weather: overcast in the morning with scattered showers and thunderstorms. Variable cloudiness in the afternoon, but generally overcast with no rain; 68-78° F. This count was conducted in the Big Sandy Unit of the Tennessee National Wildlife Refuge. Highlights included 37 Eastern Wood-Pewees and a Veery. Observers: Rich Aracil, Marie-Line Gentes, Rick Milligan, Benny Thatcher (compiler: thatcher@utk.edu), and John Trent.

**Table 1. Results of the 2005 Spring North American Migration Counts for Tennessee counties**

<i>Species</i>	Andrsn	Blount	Bradley	Cocke	Hamilton	Henry	Jeffrsn	Knox
Snow Goose	1	-	-	-	-	-	-	-
Canada Goose	41	93	-	30	218	-	28	30
Wood Duck	-	26	-	49	11	-	22	2
Mallard	5	46	-	16	136	-	8	12
Blue-winged Teal	-	-	-	-	2	-	-	-
Northern Shoveler	-	1	-	-	-	-	-	-
Hooded Merganser	-	-	-	-	2	-	-	-
Duck sp.	-	-	-	-	-	-	-	-
Wild Turkey	-	17	1	-	14	2	1	-
Northern Bobwhite	-	9	-	2	8	-	3	-
Pied-billed Grebe	-	-	-	-	-	-	-	-
Dbl-crest. Cormorant	-	4	-	86	-	-	-	-
American Bittern	-	-	-	-	-	-	-	-
Least Bittern	-	-	-	-	3	-	-	-
Great Blue Heron	8	74	1	14	67	3	10	5
Great Egret	-	-	-	-	12	-	-	-
Little Blue Heron	-	-	-	-	-	-	-	-
Cattle Egret	-	-	-	-	2	-	-	-
Green Heron	2	5	-	7	7	-	1	2
Blk-crown. Night-Heron	-	-	-	2	-	-	-	1
Ylw-crown. Night-Heron	-	1	-	-	-	-	-	-
Black Vulture	-	10	1	-	57	-	-	-
Turkey Vulture	-	25	-	8	94	-	-	4
Osprey	-	9	-	7	6	1	-	-
Mississippi Kite	-	-	-	-	-	-	-	-
Bald Eagle	-	1	-	-	-	-	1	-
Northern Harrier	-	-	-	-	1	-	-	-
Sharp-shinned Hawk	-	-	-	-	2	-	-	-
Cooper's Hawk	-	2	-	-	2	-	-	-
<i>Accipiter</i> sp.	-	-	-	-	-	-	-	-
Red-shouldered Hawk	-	3	-	-	11	-	-	1
Broad-winged Hawk	-	-	-	-	2	-	-	-
Red-tailed Hawk	-	5	1	-	13	1	-	1
American Kestrel	-	-	-	-	2	-	-	-
Merlin	-	-	-	-	1	-	-	-
Peregrine Falcon	-	-	-	-	2	-	-	-
Virginia Rail	-	-	-	-	8	-	-	-
Sora	-	1	-	-	2	-	-	-
American Coot	-	3	-	-	2	-	-	-
Semipalmated Plover	3	-	-	-	2	-	-	-
Killdeer	2	8	-	3	45	-	3	2
Black-necked Stilt	-	-	-	-	-	-	-	-
Greater Yellowlegs	-	-	-	-	-	-	-	-
Lesser Yellowlegs	1	1	-	-	5	-	-	-
Solitary Sandpiper	2	9	-	-	3	-	-	-
Spotted Sandpiper	-	5	-	-	7	-	-	-
Sanderling	-	-	-	-	-	-	-	-
Semipalmated Sandpiper	6	-	-	-	2	-	-	-

Lincoln	Loudon	Mongmry	Putnam	Ruthrfrd	Shelby	Stewart	Warren	Willmsn	Totals
-	-	-	-	-	-	-	-	-	1
36	27	169	131	1	266	35	-	40	1145
3	13	16	22	-	33	22	-	1	220
4	4	52	14	-	60	4	2	14	377
-	-	-	-	-	2	-	-	-	4
-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	2	-	-	-	4
-	1	-	-	-	-	-	-	-	1
1	7	43	14	-	17	6	-	28	151
7	-	42	15	-	7	2	4	2	101
-	-	-	-	-	3	-	-	-	3
-	10	-	2	-	2	-	-	-	104
-	1	1	-	-	-	-	-	-	2
-	-	-	-	-	-	-	-	-	3
2	26	36	15	-	35	8	1	7	312
-	-	-	1	-	16	-	-	-	29
-	-	-	-	-	2	-	-	-	2
-	-	-	-	-	4	5	-	-	11
6	1	13	6	-	11	1	3	1	66
-	11	1	-	-	-	-	-	-	15
-	-	-	1	-	1	-	-	-	3
9	14	67	27	1	1	14	-	15	216
9	13	137	111	1	6	19	1	5	433
1	1	1	1	-	1	-	-	-	28
-	-	-	-	-	22	-	-	-	22
-	1	1	-	-	1	1	-	-	6
-	-	2	-	-	-	-	-	-	3
1	-	-	1	-	-	-	-	-	4
1	-	5	1	-	-	-	-	-	11
-	-	-	2	-	-	-	-	-	2
-	-	2	10	-	7	3	-	-	37
-	-	1	7	-	4	-	-	-	14
5	-	39	16	-	5	-	-	4	90
4	-	7	16	-	4	-	1	1	35
-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	-	2
-	-	-	-	-	-	-	-	-	8
-	-	1	-	-	-	-	-	-	4
-	-	-	-	-	-	-	-	-	5
-	-	-	-	-	7	-	-	-	12
15	2	64	73	2	47	5	2	3	276
-	-	-	-	-	42	-	-	-	42
-	-	1	-	-	-	-	-	-	1
-	-	-	-	-	20	-	-	-	27
-	-	6	3	-	2	-	-	-	25
4	-	6	10	-	-	-	1	-	33
-	-	-	-	-	1	-	-	-	1
-	-	-	-	-	73	-	-	-	81

<i>Species</i>	Andrsn	Blount	Bradley	Cocke	Hamilton	Henry	Jeffrsn	Knox
Least Sandpiper	1	-	-	-	2	-	-	-
White-rumped Sandpiper	-	-	-	-	-	-	-	-
Pectoral Sandpiper	-	-	-	-	1	-	-	-
Dunlin	-	-	-	-	-	-	-	-
Stilt Sandpiper	-	-	-	-	-	-	-	-
Sandpiper sp.	-	-	-	17	-	-	-	-
Short-billed Dowitcher	-	-	-	-	-	-	-	-
Dowitcher sp.	-	-	-	-	-	-	-	-
Wilson's Snipe	-	-	-	-	1	-	-	-
American Woodcock	-	-	-	-	-	-	-	-
Ring-billed Gull	-	-	-	-	1	-	-	-
Forster's Tern	-	-	-	-	1	-	-	-
Black Tern	-	-	-	-	-	-	-	-
Rock Pigeon	-	52	-	-	158	-	10	-
Eurasian Collared-Dove	-	-	-	-	8	-	-	-
Mourning Dove	5	98	9	4	288	-	16	14
Black-billed Cuckoo	-	2	-	-	-	-	-	-
Yellow-billed Cuckoo	-	14	-	7	6	3	1	-
Barn Owl	-	-	-	-	1	-	-	-
Eastern Screech Owl	-	-	-	-	3	-	-	-
Great Horned Owl	-	2	-	-	1	-	-	-
Barred Owl	-	1	-	-	-	-	-	-
Common Nighthawk	-	1	-	-	3	-	-	-
Chuck-will's-widow	-	3	-	-	1	-	-	-
Whip-poor-will	-	-	-	-	12	-	-	-
Chimney Swift	-	52	2	14	184	7	8	15
Ruby-thr. Hummingbird	-	5	2	3	7	2	2	1
Belted Kingfisher	-	2	-	2	15	-	-	2
Red-headed Woodpecker	-	-	-	2	4	-	-	-
Red-bellied Woodpecker	-	24	3	5	63	10	6	6
Downy Woodpecker	-	16	4	3	29	3	2	5
Hairy Woodpecker	-	4	-	1	8	9	-	1
Northern Flicker	-	4	-	1	17	2	1	3
Pileated Woodpecker	-	14	-	1	16	7	-	1
Eastern Wood-Pewee	-	8	-	1	21	37	2	1
Acadian Flycatcher	-	5	-	-	5	28	-	-
Alder Flycatcher	-	-	-	-	-	-	-	-
Willow Flycatcher	-	3	-	-	-	-	-	-
<i>Empidonax</i> sp.	-	-	-	-	-	-	-	-
Eastern Phoebe	-	20	3	3	32	-	-	-
Great Crested Flycatcher	-	19	2	5	22	29	1	3
Eastern Kingbird	1	25	1	18	75	-	8	3
Loggerhead Shrike	-	-	-	-	-	-	-	-
White-eyed Vireo	-	10	-	8	48	17	-	-
Yellow-throated Vireo	-	-	-	-	4	7	-	-
Blue-headed Vireo	-	16	-	-	4	-	-	-
Warbling Vireo	-	-	-	7	-	-	-	-
Philadelphina Vireo	-	-	-	-	1	-	-	-
Red-eyed Vireo	-	54	-	16	139	52	1	4
Blue Jay	-	108	8	7	128	15	8	11
American Crow	4	79	3	16	228	21	8	17

Lincoln	Loudon	Mongmry	Putnam	Ruthfrfd	Shelby	Stewart	Warren	Willmsn	Totals
-	-	-	8	-	270	-	-	-	281
-	-	-	-	-	10	-	-	-	10
-	-	-	-	-	14	-	-	-	15
-	-	-	-	-	13	-	-	-	13
-	-	-	-	-	45	-	-	-	45
-	-	-	-	-	-	-	-	-	17
-	-	-	1	-	4	-	-	-	5
-	-	-	2	-	-	-	-	-	2
-	-	-	-	-	-	-	-	-	1
2	-	1	2	-	-	-	-	-	5
-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	-	1
-	-	-	-	-	-	-	-	1	1
1	2	42	48	-	50	-	-	7	370
4	-	-	1	-	60	-	-	-	73
10	33	348	363	3	104	10	6	22	1333
-	-	7	-	-	-	-	-	-	9
13	-	33	14	-	20	2	2	1	116
-	-	-	1	-	-	-	-	-	2
-	-	2	2	-	1	-	-	-	8
-	-	4	-	-	2	-	1	-	10
1	-	9	2	-	3	-	-	-	16
-	-	5	4	-	3	-	-	-	16
11	-	13	12	-	2	-	-	-	42
1	-	15	7	-	-	-	-	-	35
2	14	110	193	3	65	6	3	8	686
3	1	13	8	-	16	1	-	-	64
1	3	4	8	-	4	-	1	1	43
1	-	4	5	-	12	-	-	-	28
5	5	80	85	3	55	1	3	5	359
3	1	26	27	-	11	-	1	1	132
3	-	4	9	-	-	-	-	-	39
4	2	1	30	-	5	-	-	-	70
2	1	18	33	-	11	2	1	2	109
5	-	77	82	1	45	2	1	8	291
2	-	32	65	-	64	1	-	3	205
-	-	1	-	-	-	-	-	-	1
-	-	4	-	-	-	-	-	-	7
-	-	-	2	-	-	-	-	-	2
2	2	46	86	1	10	7	2	6	220
12	1	67	54	-	25	-	3	9	252
3	7	92	91	1	34	12	6	12	389
5	-	5	2	-	4	-	-	-	16
4	-	71	96	2	63	-	-	6	325
2	-	15	32	-	14	-	1	4	79
-	-	5	12	-	1	-	-	-	38
-	-	10	1	-	19	-	-	3	40
-	-	-	-	-	-	-	-	-	1
2	-	64	483	-	45	2	3	15	880
5	11	152	197	3	33	11	2	16	715
11	16	230	314	4	43	25	4	18	1041

<i>Species</i>	Andrsn	Blount	Bradley	Cocke	Hamilton	Henry	Jeffrsn	Knox
Fish Crow	-	-	-	-	3	-	-	-
Horned Lark	-	1	-	-	-	-	-	-
Purple Martin	-	5	-	1	94	-	9	-
Tree Swallow	2	30	2	8	24	-	27	6
N. Rough-wing. Swallow	-	24	-	-	63	-	2	5
Bank Swallow	-	-	-	-	5	-	-	-
Cliff Swallow	12	45	-	200	314	20	20	1
Barn Swallow	-	76	3	6	255	-	18	6
Carolina Chickadee	-	49	9	7	79	10	10	11
Tufted Titmouse	-	58	6	6	57	18	2	13
Red-breasted Nuthatch	-	1	-	-	-	-	-	-
White-breasted Nuthatch	-	12	-	-	7	2	-	-
Brown-headed Nuthatch	-	3	1	-	20	-	-	-
Carolina Wren	-	53	5	8	99	7	7	19
House Wren	-	4	-	-	3	-	1	3
Ruby-crowned Kinglet	-	1	-	-	-	-	-	-
Blue-gray Gnatcatcher	-	47	5	34	112	53	-	6
Eastern Bluebird	1	52	6	5	156	3	14	9
Veery	-	3	-	-	3	1	-	1
Gray-cheeked Thrush	-	1	-	-	2	-	-	-
Swainson's Thrush	-	3	-	-	4	9	-	1
Hermit Thrush	-	-	-	-	-	-	-	-
<i>Catharus</i> sp.	-	-	-	-	-	-	-	-
Wood Thrush	-	15	-	-	17	10	1	-
American Robin	1	145	3	4	400	-	27	10
Gray Catbird	-	10	-	-	16	-	-	3
Northern Mockingbird	2	55	2	7	192	-	3	6
Brown Thrasher	-	11	5	-	46	5	2	7
European Starling	6	138	7	12	460	-	30	21
Cedar Waxwing	-	87	-	9	197	-	-	25
Blue-winged Warbler	-	-	-	-	-	-	-	-
Tennessee Warbler	-	2	-	-	-	1	-	-
Northern Parula	-	4	-	1	4	4	-	-
Yellow Warbler	-	-	-	3	7	-	-	-
Chestnut-sided Warbler	-	-	-	-	-	-	-	-
Magnolia Warbler	-	-	-	-	2	-	-	-
Cape May Warbler	-	-	-	-	-	-	-	-
Black-thr. Blue Warbler	-	-	-	-	-	-	-	-
Yellow-rumped Warbler	-	-	-	1	-	-	-	-
Black-thr. Green Warbler	-	14	-	-	14	4	-	-
Yellow-throated Warbler	-	3	-	-	7	-	-	-
Pine Warbler	-	14	-	-	34	2	-	3
Prairie Warbler	-	-	-	1	26	4	-	-
Palm Warbler	-	-	-	-	-	-	-	-
Bay-breasted Warbler	-	-	-	-	-	-	-	-
Blackpoll Warbler	-	4	-	1	2	-	-	-
Cerulean Warbler	-	-	-	-	-	-	-	-
Black-and-white Warbler	-	20	-	-	10	-	-	-
American Redstart	-	1	-	-	3	3	-	-
Prothonotary Warbler	-	-	-	39	6	-	-	-
Worm-eating Warbler	-	9	-	-	11	11	-	-

Lincoln	Loudon	Mongmry	Putnam	Ruthrfrd	Shelby	Stewart	Warren	Willmsn	Totals
-	-	-	-	-	9	-	-	-	12
6	-	5	2	-	1	-	-	-	15
16	40	153	107	1	20	-	1	4	451
5	42	8	34	-	-	-	3	-	191
3	-	82	63	6	6	-	-	6	260
-	-	4	1	-	-	-	-	-	10
-	32	331	16	-	2	-	-	21	1014
6	31	362	285	1	84	10	3	35	1181
8	10	92	109	2	45	28	4	4	477
4	5	94	160	2	80	3	5	15	528
-	-	-	-	-	-	-	-	-	1
1	2	20	26	-	12	-	1	-	83
-	-	-	4	-	-	-	-	-	28
9	7	66	288	5	129	1	2	4	709
-	-	18	65	-	-	-	-	-	94
-	-	-	-	-	-	-	-	-	1
16	2	119	132	3	87	10	9	12	647
5	21	227	265	1	36	-	9	23	833
-	-	-	-	-	1	-	-	-	9
-	-	1	1	-	1	-	-	-	6
-	-	3	12	-	9	-	-	1	42
-	-	1	-	-	-	-	-	-	1
30	-	-	-	-	-	-	-	-	30
3	-	55	118	-	21	4	-	7	251
13	20	234	455	10	60	-	1	18	1401
1	-	13	19	1	5	1	-	-	69
13	10	89	146	3	41	2	2	5	578
9	9	50	73	1	20	6	2	4	250
808	113	508	1189	3	214	20	4	75	3608
6	20	149	118	1	57	18	25	18	730
-	-	1	9	-	1	-	-	6	17
-	-	18	-	-	14	-	-	-	35
1	-	29	28	-	86	-	-	1	158
2	-	12	23	-	-	-	-	2	49
-	-	3	2	-	2	-	-	-	7
1	-	-	1	-	3	-	2	-	9
-	-	-	1	-	-	-	-	-	1
-	-	1	-	-	-	-	-	-	1
-	-	-	1	-	-	-	-	-	2
-	-	-	12	-	-	-	-	-	44
-	-	11	29	-	6	-	-	3	59
1	1	3	18	-	8	-	-	1	85
1	-	53	37	-	-	-	-	2	124
-	-	-	1	-	-	1	-	-	2
-	-	1	-	-	-	-	-	-	1
-	-	3	3	-	3	-	-	-	16
-	-	-	35	-	16	-	-	-	51
-	-	1	47	-	1	-	-	-	79
-	-	1	19	-	45	-	-	-	72
2	-	42	-	-	32	4	-	1	126
-	-	-	35	-	-	-	-	2	68

<i>Species</i>	<i>Andrsn</i>	<i>Blount</i>	<i>Bradley</i>	<i>Cocke</i>	<i>Hamilton</i>	<i>Henry</i>	<i>Jeffrsn</i>	<i>Knox</i>
Swainson's Warbler	-	3	-	-	-	-	-	-
Ovenbird	-	24	-	-	5	5	-	-
Northern Waterthrush	-	-	-	-	1	-	-	-
Louisiana Waterthrush	-	1	-	-	-	2	-	-
Kentucky Warbler	-	-	-	-	6	13	-	-
Connecticut Warbler	-	1	-	-	-	-	-	-
Common Yellowthroat	-	33	-	17	25	24	-	5
Hooded Warbler	-	20	-	-	13	4	-	-
Canada Warbler	-	-	-	-	1	-	-	-
Yellow-breasted Chat	-	22	1	3	58	12	-	2
Summer Tanager	-	5	-	2	20	34	1	-
Scarlet Tanager	-	14	-	-	32	15	-	-
Eastern Towhee	-	26	7	-	145	14	3	9
Chipping Sparrow	2	13	3	5	51	1	2	-
Field Sparrow	-	19	2	6	43	1	8	2
Savannah Sparrow	1	-	-	-	-	-	-	-
Grasshopper Sparrow	-	2	-	-	1	-	-	-
Henslow's Sparrow	-	-	-	-	-	-	-	-
Song Sparrow	-	35	-	5	104	-	6	9
Lincoln's Sparrow	-	-	-	-	-	-	-	-
White-throated Sparrow	-	-	-	-	1	1	-	-
Northern Cardinal	-	87	8	10	269	12	18	21
Rose-breasted Grosbeak	-	1	-	-	6	-	-	-
Blue Grosbeak	-	4	-	2	14	1	3	-
Indigo Bunting	-	109	5	47	186	47	7	3
Painted Bunting	-	-	-	-	-	-	-	-
Dickcissel	-	-	-	-	-	-	-	-
Bobolink	-	-	-	-	2	-	-	-
Red-winged Blackbird	12	89	3	45	377	-	35	23
Eastern Meadowlark	1	15	4	6	66	-	6	-
Common Grackle	-	199	3	31	265	3	24	15
Brown-headed Cowbird	-	34	4	3	96	37	-	11
Orchard Oriole	-	9	-	18	31	2	5	5
Baltimore Oriole	-	2	-	12	1	-	-	-
House Finch	-	15	3	1	74	-	2	9
American Goldfinch	-	54	13	9	65	-	16	6
House Sparrow	-	17	-	-	90	-	-	1
Total individuals	122	2852	151	940	7090	651	460	424
Total species	24	112	38	68	135	56	52	58
<i>Effort Data:</i>								
Observers	2	11	2	6	17	5	1	4
Parties	1	10	1	1	10	5	1	3
Party hours	2	37.75	4.5	3.5	65	42.5	6	4.5
Hours by car	2	11.83	0.5	0.5	26.75	-	1	0.5
Miles by car	40	283.8	20	2	397.7	-	16.5	11
Hours by foot	-	25.92	4	0.5	34.25	42.5	5	4
Miles by foot	-	19.5	2	0.25	23.25	10	2	4.5
Hours by canoe or other	-	-	-	2.5	4	-	-	-
Miles by canoe or other	-	-	-	5	-	-	-	-
Hours owling	-	2.33	-	-	2	-	-	-
Miles owling	-	9	-	-	10	-	-	-
Feeder observers	-	4	2	-	-	-	-	1
Feeder hours	-	9.5	2	-	-	-	-	1.5

Lincoln	Loudon	Mongmry	Putnam	Ruthfrfd	Shelby	Stewart	Warren	Willmsn	Totals
-	-	-	-	-	2	-	-	-	5
-	-	6	149	-	-	-	-	1	190
-	-	-	-	-	-	-	-	-	1
2	-	23	21	-	5	-	-	2	56
2	-	18	87	-	35	-	-	14	175
-	-	-	-	-	-	-	-	-	1
10	2	136	237	1	36	8	1	21	556
-	-	1	131	-	9	-	-	12	190
-	-	-	-	-	-	-	-	-	1
8	-	69	100	2	18	2	1	8	306
3	1	70	71	-	46	2	-	9	264
1	-	4	57	-	11	-	-	7	141
9	11	94	190	-	14	-	2	4	528
5	2	48	270	-	12	-	1	6	421
6	4	102	174	7	15	-	4	26	419
21	-	1	1	-	1	-	1	-	26
7	-	10	6	-	-	-	3	-	29
-	-	5	-	-	-	-	-	-	5
4	6	2	304	1	1	-	7	-	484
-	-	1	-	-	-	-	-	-	1
-	-	-	-	-	3	-	-	-	5
23	30	314	494	8	110	12	7	8	1431
-	-	4	5	-	1	2	-	-	19
8	2	15	26	2	14	1	3	2	97
27	6	311	600	15	209	15	11	28	1626
-	-	-	-	-	3	-	-	-	3
5	-	166	3	-	89	-	-	-	263
18	-	-	3	-	2	-	-	-	25
30	8	394	668	-	507	24	10	15	2240
23	14	199	273	-	40	-	7	10	664
18	46	163	176	13	94	23	-	17	1090
9	7	151	272	5	96	15	1	25	766
5	3	19	51	1	14	3	3	6	175
-	-	1	3	-	29	-	-	-	48
3	17	65	49	-	7	-	-	-	245
19	10	241	125	10	28	14	5	9	624
4	17	127	153	-	109	-	-	4	522
1468	782	7946	11569	131	4601	436	195	773	40591
94	62	127	127	38	131	51	55	77	181
2	3	13	16	6	20	5	1	1	115
1	2	6	8—9	1	6	1	1	1	51
14.33	-	97.21	87.25	2	34	4	2	5	411.54
-	-	58.8	64	-	10	1	-	3	179.88
72	65	678.1	571	-	165	12	-	51	2385.1
-	1	38.41	23.25	2	24	3	2	2	211.83
3.5	1	29	14.25	1	16	2	2.5	1	131.75
-	-	-	-	-	-	-	-	-	6.5
-	-	-	-	-	-	-	-	-	5
4	-	3.75	4	-	1	-	-	-	17.08
-	-	34.8	66	-	6	-	-	-	125.8
-	2	2	1	-	2	-	-	-	14
-	9	1.75	2.5	-	2.5	-	-	-	28.75

**Jefferson County** — 0730-1330. Weather: mostly cloudy with light wind and one period of light rain; 66-70° F. This count covered mostly the northwest area of the county. Highlights included Northern Bobwhite, Bald Eagle, and House Wren. Observer: Howard Chitwood, 1432 Royal Drive, Jefferson City, TN 37760; hchitwood@msn.com.

**Knox County** — 0700-1335. Weather: cloudy with some periods of rain; 61-80° F. This was a compilation of 3 separate parties. Highlights included Black-crowned Night-Heron, Hairy Woodpecker, House Wren, and Veery. Observers: Carol Gobert, Susan Hoyle, Sandy Perry, and Herbie Wolford.

**Lincoln County** — 0200-2020. Weather: no data. Highlights included American Woodcock, 5 Loggerhead Shrikes, Grasshopper Sparrow, and Dickcissel. Observers: Morris D. Williams (compiler: 120 Hurricane Creek Rd., Lawrenceburg, TN 38464), and Andrew F. Salhany.

**Loudon County** — Weather: sunny early and some rain showers later in the day; 75° F. Observers managed to turn up Wild Turkey, Bald Eagle, and an American Bittern. Observers: Tony King, Janet McKnight, and Vaughan Nauman.

**Montgomery County** — 0600-? Weather: some rain early in the morning, with light winds. A front moved through about noontime with some strong wind gusts which abated later; 60-76° F. Count highlights included American Bittern, 7 Black-billed Cuckoos, Alder Flycatcher, Hermit Thrush, and Blue-winged Warbler. Observers: Suva Bastin, Caron Baugher, Christopher Croy, Robert Croy, Elaine Foust, Amy Gorman, Joe Hall, Nita Heilman, Bill Milliken, Gloria Milliken (compiler: 861 Vaughn Rd., Clarksville, TN 37043), Daniel Moss, Mike O'Malley, Polly Rooker, Amy Wallace, and Barbara Wilbur.

**Putnam County** — 0345-1945. Weather: partly clear with winds W 0-10 mph in the morning turning mostly cloudy in the afternoon with a 1.5 hr. heavy rain and winds W 0-25 mph; 59-81° F. Short-billed Dowitcher (2<sup>nd</sup> county record) and Eurasian Collared-Dove (3<sup>rd</sup> county record) were new species for the Putnam County Spring Bird Count (SBC), bringing the all-time count total to 199 species. Totals for Wild Turkey, Turkey Vulture, Killdeer, Least Sandpiper, Yellow-billed Cuckoo, Chimney Swift, American Crow, Tree Swallow, Red-winged Blackbird, and Brown-headed Cowbird all represent record numbers for the Putnam County SBC. Totals for Red-bellied Woodpecker, Pileated Woodpecker, Eastern Phoebe, Barn Swallow, Carolina Wren, House Wren, Worm-eating Warbler, Louisiana Waterthrush, Hooded Warbler, Eastern Towhee, Chipping Sparrow, Song Sparrow, and Northern Cardinal all represent record numbers on the Putnam County SBC *and* all-time highest numbers in Putnam Co. Double-crested Cormorants were recorded for the 7<sup>th</sup> consecutive year on this count. Prior to 1999, no cormorants were recorded on 25 spring counts conducted 1961-1978 and 1992-1998 in the county, a local indication of the generally expanding numbers of this species within Tennessee and North America. Observers: Kris Bolin, Daniel L. Combs, Douglas

A. Downs, Bettie Doyle, Ginger K. Ensor, Judy C. Fuson, Michael J. Hawkins, Nancy S. Layzer, Joseph E. Mast, Kenneth L. Morgan, Michael P. O'Rourke, Richard W. Simmers, Jr., Barbara H. Stedman, Stephen J. Stedman (compiler: 2675 Lakeland Dr., Cookeville, TN 38506; sstedman@tntech.edu), Catherine E. and Winston A. Walden, and Carole D. Williams.

**Rutherford County** — 0900-1100. Weather: partly cloudy with wind gusts of 20 mph; upper 70's. Count location was Fortress Rosecrans. Observers: Don Davidson, Terri Hogan, Ruth Luckado, Laura McCall (compiler: MTSU Center for Environmental Education, P.O. Box 60, Mufreesboro, TN 37132), Laurel Temmen, and Lisa Trail.

**Shelby County** — 0630-2030. Weather: a.m. was cloudy to partly cloudy with rain until 0715; p.m. was partly cloudy to clear with variable winds 0-5 mph; 70-79° F. The count area includes Meeman Shelby Forest State Park, Shelby Farms, Ensley/EARTH complex, Eagle Lake WMA, and Millington area. Highlights included 11 species of shorebirds (including Sanderling), Loggerhead Shrike, Gray-cheeked Thrush, Blue-winged and Swainson's Warblers, and Bobolink. The compiler noted that there were fewer warblers than usual. Blue-winged Warbler was 2 days later than the previous spring departure date for the county. Hairy Woodpecker was the most notable miss. Observers: Betty Blaylock, David Blaylock, Carolyn Bullock, Judy Dorsey, Jim and Sue Ferguson, Margaret Jefferson, Dianna and Rusty Johnson, Gerry Papachristou, Rob Peeples (compiler: 8205 Meadow Glen Dr., Germantown, TN 38138; wpeeples@midsouth.rr.com), Gaynell Perry, Dick D. Preston, Don Preston, Forrest Priddy, Virginia B. Reynolds, Ed Thomas, Martha Waldron, Barbara H. Wilson, and Silvia Wortham.

**Stewart County** — 0800-1200. Weather: cloudy with a light rain shower during the count; 60-76° F. This count was conducted at the Cross Creeks National Wildlife Refuge. Highlights included Cattle Egret, Bald Eagle, and Wild Turkey. Observers: Joe and Shirley Casey, Joyce North, Sarah Welker (compiler: Cross Creeks N. W. R. manager; sarah\_welker@fws.gov), and Martha Yanchyshyn.

**Warren County** — Weather: no data. Notable finds were Northern Bobwhite, Great Horned Owl, and Grasshopper Sparrow. Observer: Susan McWhirter (compiler: 4962 Gwynne Rd., Memphis TN 38117).

**Williamson County** — 0730-1230. Weather: partly cloudy to mostly cloudy with wind 5-15 mph; 72-78° F. Count route was mostly along Natchez Trace Parkway and environs. Highlights included Wild Turkey, Black Tern, and Warbling Vireo. Observer: Richard H. Connors (compiler: 7244 Carothers Rd., Nolensville, TN 37135; rconnersphoto@aol.com).

## 2005 SPRING FIELD DAY COUNTY REPORT

RON HOFF, state compiler  
282 Hackworth Ln., Clinton, TN 37716

This report summarizes the traditional spring bird counts that are typically run on dates other than the North American Migration Count date, which is always the second Saturday in May. These counts sometimes cover more than one county and sometimes more than one day. The weather was mostly mild, with some counts experiencing periods of light rain and gusty winds. Some of the more notable finds for these counts included Brant, Upland Sandpiper, Ruffed Grouse, Black-billed Cuckoo, American Bittern, Yellow-crowned Night-Heron, Northern Saw-whet Owl, Short-billed Dowitcher, Willow and Least Flycatchers, Philadelphia Vireo, Bewick's and Winter Wrens, Lark Sparrow, Dickcissel, Rusty Blackbird, and Pine Siskin (Table 1).

**Columbia (Mayfield-Gray chapter)** — 29 & 30 April: 0600-2000 (both days). Weather: cloudy, scattered showers, and winds NW 10-20 mph; 62-70° F. Notable sightings included Bald Eagle, Willet, Yellow-bellied Sapsucker, Orange-crowned Warbler, Lincoln's Sparrow, Dickcissel, and Purple Finch. Observers: Bobby and Janet Brown, Robert and Jennifer Cardenas, Phyllis Coble, Tommy Edwards (compiler: 896 Iron Bridge Rd., Columbia, TN 38401; (tomandmissy@peoplepc.com)), Dr. William Jernigan, Dr. Allyn Lay, Anne and Bedford Lochridge, Mary Lyles, and Cleo Mayfield.

**Elizabethton** — 30 April; 0430-2130. Weather: a cold front moved through the area the night before the count; on count day it was overcast, with a light rain in the early morning and light to moderate rain in the late afternoon (with fog in the mountains); winds W at 5-15 mph, with higher gusts in the mountains; 47-66° F. This was the 62<sup>nd</sup> consecutive spring count conducted by the Herndon chapter. The count area covers Carter County and parts of adjacent Johnson, Sullivan, Unicoi, and Washington counties. The species total this year of 161 set an all-time count record. The previous record was 157. Notable sightings included American Bittern, Short-billed Dowitcher, Caspian and Common Terns, Northern Saw-whet Owl, Bank Swallow, Marsh Wren, and 29 species of warblers, including 7 Swainson's Warblers. 121 Solitary Sandpipers shattered the previous high count of 82. Observers: Fred and JoAnn Alsop, Brad Barker, Jerry Bivens, Rob Biller, Wallace Coffey, Tess Cumbie, Gilbert Derouen, Dianne Draper, Glen Eller, Michele Glass, Jacki Hinshaw, Don Holt, Rick Knight (compiler: 804 N. Hills Dr., Johnson City, TN 37604; rknight8@earthlink.net), Joe McGuinness Tom McNeil, Brookie and Jean Potter, Bryan Stevens, Kim Stroud, David Thometz, and Gary Wallace.

**Highland Rim** — 23 April; 0700-1300. Weather: overcast with gusty winds and temperatures in the 50's. Count area covered parts of Coffee, Franklin, and

Moore counties. Sightings of interest included Cooper's Hawk, Eurasian Collared-Dove, Prothonotary Warbler, and Purple Finch. Observers: Jerry Ingles and Ruth Luckado. Compiled by John Bruner (2752 Old Salem Lexie Rd., Belvidere, TN 37306-2318; jjjbruner@peoplepc.com).

**Knoxville** — 24 April; 0645-1630 / 1715-1930. Weather: unseasonably cold and windy with snow flurries and mostly cloudy in a.m., becoming partly cloudy in p.m.; winds W 5-25 mph; 35-54° F. The low temperature was actually lower than the previous two Knoxville Christmas Counts! 117 species was the lowest species total in recent years. Notable finds for this count included Red-breasted Merganser, 6 species of shorebirds, Barn Owl (the first record on any Knox County bird count since 1975), Eurasian Collared-Dove (only the second record for Knox County), Bald Eagle, large numbers of swallows, Brown-headed Nuthatch, and Marsh Wren. Species noticeably missed on the count were Eastern Screech Owl, Yellow-billed Cuckoo, thrushes, Gray Catbird, and American Redstart. Observers: Jean Alexander, Jerry Armel, Lyn Bales, Frank Bills, Sharon Bostick, Howard Chitwood, Meredith Clebsch, Gail and Steve Clendenen, Marcia Davis, K. Dean Edwards (compiler: 1615 Meadow Chase Ln., Knoxville, TN 37931; kde@angst.engr.utk.edu), Patty Ford, Carole Gobert, Ron Hoff, Tom Howe, Susan Hoyle, Jim Human, Wes James, David Johnson, Kristine Johnson, Amy Keenum, Janet McKnight, Dan and Laurie Mooney, Dollyann Myers, Chuck Nicholson, Kelly Roy, Boyd Sharp, Allan Trently, David Trently, Chris Welsh, and Robert Wittig.

**Lebanon** — 7 May; 0500-2030. Weather: clear and cold in the morning, warming up with slight wind in the afternoon; 38-82° F. 2,124 individuals were found. Sparrow and grassland bird numbers were low, with little cover of suitable habitat. No Hermit Thrush was unusual. Highlights included American Woodcock, Eurasian Collared-Dove, Bank Swallow, Bewick's Wren, Golden-crowned Kinglet, Loggerhead Shrike, Wilson's Warbler, and Rusty Blackbird. Observers: Vernon C. Berry, Kay and Ralph Brinkhurst (compiler: 3570 Cainsville Rd., Lebanon, TN 37090; oligonot@aol.com), Frank S. Crawford, Mary Beth Hovies, Harriet Jewell, Melissa and Roy Turrentine, Dean Walker, Jerry Walker, and Paul Wells.

**Lincoln County** — 1 May; 0430-2000. Weather; no data. The main area for this count was the Flint River uplands. Notable species for this count included 8 Upland Sandpipers, Black-billed Cuckoo, Bank Swallow, Grasshopper Sparrow, White-crowned Sparrow, and Bobolink. Observer: Morris D. Williams (compiler: 120 Hurricane Creek Rd., Lawrenceburg, TN 38464).

**Nashville** — 7 May; 0400-2000. Weather; clear skies with wind S at 7 mph; 47-80° F. The count area covers Cheatham, Davidson, Rutherford, Sumner, and Williamson counties. 8,215 individuals were found. Count highlights included Bald Eagle, Forster's Tern, Willow Flycatcher, 6 species of thrushes, including 80 (!) Swainson's, American Pipit, all 6 species of vireos, 34 species of warblers, 10

**Table 1. Results of 2005 Traditional Spring Field Days Counts**

<i>Species</i>	Columbia 04/29-30/05	Elizabethton 4/30/2005	Knoxville 4/24/2005	Highlnd Rim 4/23/2005	Lebanon 7/5/2005	Lincoln Co. 5/1/2005	Nashville 7/5/2005	White Co. 7/5/2005	VanBuren Co. 4/30/2005
Brant	-	-	-	-	-	-	-	1	-
Canada Goose	161	324	302	1	27	12	127	145	12
Wood Duck	22	34	30	-	3	21	32	25	7
American Wigeon	1	-	-	-	-	-	-	-	-
Mallard	12	118	126	2	13	3	49	9	-
Blue-winged Teal	35	11	-	-	12	2	1	2	5
Northern Shoveler	1	1	-	-	-	-	-	-	-
Bufflehead	-	6	-	-	-	-	-	-	-
Hooded Merganser	1	-	-	-	6	-	-	2	-
Red-breast. Merganser	-	13	4	-	-	-	-	-	-
Ruffed Grouse	-	8	-	-	-	-	-	-	-
Wild Turkey	51	30	19	-	15	-	26	9	11
Northern Bobwhite	19	-	4	-	4	8	10	16	-
Common Loon	6	8	-	-	-	-	-	-	-
Pied-billed Grebe	8	2	-	-	3	1	1	-	-
Dbl-crest Cormorant	86	33	40	-	22	-	84	-	-
American Bittern	-	1	-	-	-	-	-	-	-
Great Blue Heron	64	28	79	2	55	9	275	13	5
Great Egret	-	1	-	-	1	-	1	-	-
Cattle Egret	-	-	-	-	1	-	-	-	-
Green Heron	9	17	5	-	2	3	10	10	3
Black-cr. Night-Heron	3	1	10	-	4	-	70	-	-
Yellow-cr. Night-Heron	-	3	-	-	-	-	-	-	-
Black Vulture	101	20	24	3	58	5	125	24	4
Turkey Vulture	126	166	44	11	20	29	77	60	80
Osprey	5	14	13	-	1	1	2	2	1
Bald Eagle	5	-	4	-	-	-	1	-	-
Northern Harrier	1	-	2	-	-	-	-	-	-
Sharp-shinned Hawk	5	2	6	-	-	-	2	2	1
Cooper's Hawk	4	5	4	2	1	-	6	2	1
<i>Accipiter</i> sp.	-	-	3	-	-	2	-	-	-
Red-shouldered Hawk	6	1	5	2	1	-	12	14	-
Broad-winged Hawk	2	1	3	1	-	-	3	2	2
Red-tailed Hawk	34	13	28	1	6	3	20	15	3
<i>Buteo</i> sp.	-	-	2	-	-	-	-	-	-
American Kestrel	41	5	5	3	2	1	14	12	5
Sora	2	4	-	-	-	-	-	2	2
American Coot	1	2	-	-	-	1	6	1	-
Semipalmated Plover	-	-	-	-	-	-	-	1	-
Killdeer	40	39	49	1	24	26	46	60	4
Greater Yellowlegs	7	17	-	1	6	-	-	1	-
Lesser Yellowlegs	20	41	1	-	4	2	11	11	-
Solitary Sandpiper	68	121	6	-	2	11	11	19	13
Willet	3	-	-	-	-	-	-	-	6
Spotted Sandpiper	9	20	6	2	-	16	12	9	-
Upland Sandpiper	-	-	-	-	-	8	-	-	-
Semipalm. Sandpiper	15	-	-	-	-	-	-	-	-
Least Sandpiper	26	6	-	-	-	-	1	4	-

<i>Species</i>	Columbia 04/29-30/05	Elizabethton 4/30/2005	Knoxville 4/24/2005	HighLnd Rim 4/23/2005	Lebanon 7/5/2005	Lincoln Co. 5/1/2005	Nashville 7/5/2005	White Co. 7/5/2005	VanBuren Co. 4/30/2005
Pectoral Sandpiper	18	4	2	-	-	-	-	1	1
Stilt Sandpiper	-	-	-	-	-	-	-	1	-
<i>Calidris</i> sp.	-	-	-	-	-	4	-	-	-
Short-billed Dowitcher	-	1	-	-	-	-	-	-	-
Shorebird sp.	-	-	-	-	1	-	-	-	-
Wilson's Snipe	6	3	1	-	-	1	-	-	-
American Woodcock	1	-	-	-	1	1	3	3	-
Ring-billed Gull	-	25	-	3	-	-	32	-	-
Gull sp.	-	-	-	-	1	-	-	-	-
Caspian Tern	1	6	cw	-	-	-	-	-	-
Common Tern	-	2	-	-	-	-	-	-	-
Forster's Tern	3	-	-	-	-	-	2	-	-
Rock Pigeon	114	99	95	1	23	3	115	54	15
Eurasian Collared-Dove	11	-	1	4	1	4	2	4	-
Mourning Dove	182	314	188	25	49	14	135	143	38
Black-billed Cuckoo	-	-	-	-	-	1	-	-	-
Yellow-billed Cuckoo	7	2	-	-	4	2	10	1	-
Barn Owl	3	1	1	-	-	-	-	-	-
Eastern Screech Owl	2	3	-	-	-	-	1	1	-
Great Horned Owl	2	3	1	-	-	7	1	-	-
Barred Owl	8	2	1	1	4	2	6	3	1
Northern Saw-whet Owl	-	1	-	-	-	-	-	-	-
Common Nighthawk	-	1	-	-	4	1	-	3	-
Chuck-will's-widow	8	10	1	-	4	5	5	2	-
Whip-poor-will	1	11	-	-	1	1	5	-	1
Chimney Swift	53	80	310	12	12	42	212	51	235
Ruby-th. Hummingbird	22	29	5	-	8	4	15	4	1
Belted Kingfisher	21	20	9	1	3	3	13	6	1
Red-headed Woodpecker	7	3	-	-	7	1	2	4	-
Red-bellied Woodpecker	53	27	49	8	21	8	62	42	9
Yellow-bellied Sapsucker	2	-	-	-	-	-	-	-	1
Downy Woodpecker	37	21	20	2	18	1	40	10	9
Hairy Woodpecker	10	10	9	-	1	2	10	2	1
Northern Flicker	7	41	26	-	1	1	12	13	2
Pileated Woodpecker	16	40	2	1	5	1	18	21	19
Eastern Wood-Pewee	22	-	1	-	14	5	71	33	6
Acadian Flycatcher	12	2	-	-	2	2	25	7	-
Willow Flycatcher	-	-	-	-	-	-	2	-	-
Least Flycatcher	-	9	-	-	-	-	-	-	-
Eastern Phoebe	32	64	20	3	20	3	33	47	12
Great Crested Flycatcher	24	5	2	-	13	9	35	24	26
Eastern Kingbird	83	31	35	1	54	7	76	118	11
Loggerhead Shrike	1	2	-	-	2	3	-	1	-
White-eyed Vireo	50	16	16	2	4	4	59	72	13
Yellow-throated Vireo	11	5	2	1	-	1	16	13	23
Blue-headed Vireo	2	56	6	1	1	-	4	4	8
Warbling Vireo	6	1	-	-	4	-	21	2	-
Philadelphia Vireo	-	-	-	-	-	-	6	-	-

<i>Species</i>	Columbia 04/29-30/05	Elizabethton 4/30/2005	Knoxville 4/24/2005	Highland Rim 4/23/2005	Lebanon 7/5/2005	Lincoln Co. 5/1/2005	Nashville 7/5/2005	White Co. 7/5/2005	VanBuren Co. 4/30/2005
Red-eyed Vireo	65	62	68	15	13	8	76	213	81
Blue Jay	173	202	180	14	81	38	459	242	36
American Crow	117	268	282	15	47	8	109	155	72
Common Raven	-	4	-	-	-	-	-	-	-
Horned Lark	5	1	-	-	-	17	-	1	-
Purple Martin	37	69	16	12	60	10	71	131	27
Tree Swallow	16	233	968	10	19	19	22	24	75
N. Rough-wing Swallow	244	164	144	3	13	4	111	36	8
Bank Swallow	-	1	-	-	10	3	-	-	-
Cliff Swallow	38	92	335	20	44	-	388	3	12
Barn Swallow	111	231	583	6	31	28	114	289	176
Carolina Chickadee	72	87	113	10	29	15	182	55	45
Tufted Titmouse	77	84	92	7	32	11	172	102	49
Red-breasted Nuthatch	1	6	-	-	-	-	-	-	1
White-breasted Nuthatch	18	11	7	1	5	3	33	14	15
Brown-headed Nuthatch	-	-	4	-	-	-	-	-	-
Brown Creeper	1	2	-	-	-	-	-	-	-
Carolina Wren	86	113	151	12	42	13	167	123	30
Bewick's Wren	-	-	-	-	2	-	-	-	-
House Wren	6	29	6	-	1	-	5	37	2
Winter Wren	-	2	-	-	-	-	-	-	-
Sedge Wren	-	-	-	-	-	-	-	1	1
Marsh Wren	-	1	1	-	-	-	-	-	-
Golden-crowned Kinglet	1	4	-	-	1	-	-	-	-
Ruby-crowned Kinglet	1	9	11	-	-	-	1	-	10
Blue-gray Gnatcatcher	97	94	76	25	45	22	155	48	44
Eastern Bluebird	184	94	125	20	50	8	97	192	27
Veery	5	2	-	-	-	-	12	-	-
Gray-cheeked Thrush	2	-	-	-	-	-	13	-	3
Swainson's Thrush	10	1	cw	-	3	-	80	3	1
Hermit Thrush	4	2	-	-	-	-	-	-	1
<i>Catharus</i> sp.	-	-	-	-	-	1	-	-	-
Wood Thrush	30	59	15	-	14	5	46	38	15
American Robin	208	541	407	100	62	11	291	198	45
Gray Catbird	17	39	-	-	2	3	17	9	3
Northern Mockingbird	98	89	138	15	44	10	93	125	9
Brown Thrasher	31	26	22	3	16	5	43	45	3
European Starling	565	738	1124	200	201	27	447	400	35
American Pipit	27	7	28	-	-	-	1	-	-
Cedar Waxwing	-	124	62	20	16	-	36	1	-
Blue-winged Warbler	3	1	3	-	-	-	9	4	1
Golden-winged Warbler	-	1	-	-	-	-	-	1	-
Tennessee Warbler	11	-	-	-	1	1	77	1	-
Orange-crowned Warbler	1	-	2	-	-	-	1	-	-
Nashville Warbler	9	1	2	-	-	-	13	-	1
Northern Parula	9	37	2	5	-	1	10	16	4
Yellow Warbler	16	39	9	1	3	4	22	22	2
Chestnut-sided Warbler	9	15	1	-	-	5	13	3	3

<i>Species</i>	Columbia 04/29-30/05	Elizabethton 4/30/2005	Knoxville 4/24/2005	Highlnd Rim 4/23/2005	Lebanon 7/5/2005	Lincoln Co. 5/1/2005	Nashville 7/5/2005	White Co. 7/5/2005	VanBuren Co. 4/30/2005
Magnolia Warbler	1	-	-	-	1	-	11	-	1
Cape May Warbler	-	-	cw	-	1	2	9	3	-
Black-thr.Blue Warbler	-	54	-	-	-	-	1	-	-
Yellow-rump. Warbler	60	121	88	4	9	4	38	4	32
Black-thr.Green Warbler	15	108	7	-	1	3	12	3	25
Blackburnian Warbler	1	3	2	-	2	-	4	-	4
Yellow-thr. Warbler	6	15	5	3	2	-	14	18	26
Pine Warbler	6	13	4	1	2	1	3	8	28
Prairie Warbler	4	4	3	2	3	-	20	30	19
Palm Warbler	34	16	12	-	7	16	23	2	7
Bay-breasted Warbler	3	2	-	-	1	2	12	-	1
Blackpoll Warbler	4	4	-	-	4	1	43	5	7
Cerulean Warbler	3	-	cw	-	-	1	3	1	-
Black-and-white Warbler	9	51	2	-	1	1	14	30	31
American Redstart	1	21	cw	-	-	-	1	1	-
Prothonotary Warbler	15	1	1	3	1	1	24	2	-
Worm-eating Warbler	22	24	3	1	1	-	9	10	1
Swainson's Warbler	-	7	-	-	-	-	1	-	-
Ovenbird	19	92	5	9	-	-	4	33	25
Northern Waterthrush	3	3	-	-	-	-	6	5	-
Louisiana Waterthrush	6	14	2	2	-	1	8	6	2
Kentucky Warbler	27	2	-	2	3	4	38	14	4
Common Yellowthroat	34	22	31	2	19	10	94	169	17
Hooded Warbler	6	154	10	2	-	-	25	17	33
Wilson's Warbler	-	-	-	-	1	-	1	-	-
Canada Warbler	-	3	2	-	-	-	1	-	-
Yellow-breasted Chat	39	5	3	-	6	2	52	44	13
Summer Tanager	52	1	6	-	21	3	82	70	7
Scarlet Tanager	51	38	20	3	4	3	48	46	18
Eastern Towhee	67	122	109	10	30	4	132	97	16
Chipping Sparrow	47	75	44	20	13	2	31	167	60
Field Sparrow	103	48	89	12	30	2	145	149	10
Lark Sparrow	-	-	-	-	-	-	10	-	-
Savannah Sparrow	10	8	17	-	1	94	6	1	1
Grasshopper Sparrow	5	3	-	-	-	4	1	9	-
Song Sparrow	14	303	130	8	-	3	18	206	19
Lincoln's Sparrow	1	-	-	-	-	-	1	-	1
Swamp Sparrow	6	6	10	-	-	3	3	8	1
White-thr. Sparrow	77	48	89	-	1	25	14	5	5
White-crown. Sparrow	22	26	11	-	14	1	-	3	-
Dark-eyed Junco	1	44	-	-	-	-	-	-	-
Northern Cardinal	230	227	364	50	84	17	421	234	44
Rose-breasted Grosbeak	62	24	3	-	4	1	27	2	3
Blue Grosbeak	10	2	4	2	1	3	6	86	5
Indigo Bunting	80	41	19	16	42	18	334	346	26
Dickcissel	2	-	-	-	-	-	-	-	-
Bobolink	42	-	-	-	-	5	1	5	3
Red-winged Blackbird	219	678	361	20	69	35	175	316	45

<i>Species</i>	Columbia 04/29-30/05	Elizabethton 4/30/2005	Knoxville 4/24/2005	Highland Rim 4/23/2005	Lebanon 7/5/2005	Lincoln Co. 5/1/2005	Nashville 7/5/2005	White Co. 7/5/2005	VanBuren Co. 4/30/2005
Eastern Meadowlark	105	136	80	14	60	36	64	251	27
Rusty Blackbird	-	-	-	-	1	-	-	-	-
Common Grackle	284	385	325	100	86	12	166	231	19
Brown-headed Cowbird	99	91	101	50	31	8	243	104	8
Orchard Oriole	28	14	10	1	19	8	44	81	3
Baltimore Oriole	8	14	-	-	7	6	9	11	2
Purple Finch	4	-	-	1	-	-	-	-	-
House Finch	38	65	77	10	15	6	37	14	4
Pine Siskin	-	21	-	-	-	-	-	-	-
American Goldfinch	201	512	202	100	39	88	204	93	36
House Sparrow	37	54	38	14	24	14	52	109	12
Total individuals	6466	9376	8893	1074	2124	1037	8215	6744	2094
Total Species	160	161	117	77	121	115	147	134	114
<i>Effort Data:</i>									
Observers	12	22	32	2	10	1	31	6	4
Parties	-	6	17	2	6	1	10	3	2
Party Hours	86.5	74	70.25	6	14	15.5	83.5	35.5	23.5
Hours by car	47.5	-	26.25	5	12	-	37.75	29	16
Miles by car	725	-	457	96	114	65	421	309	209
Hours on foot	39	-	44	1	2	-	44.25	6.5	7.5
Miles on foot	22	-	41.5	0.5	3	4	33.5	4	6.25
Hours by boat or other	-	-	-	-	-	-	1.5	-	-
Miles by boat or other	-	-	-	-	-	-	5	-	-
Hours Owling	3	6	0.75	-	0.25	1	1	2.5	1
Miles Owling	27	-	13	-	-	-	23	40	12
Feeder Watchers	2	-	2	-	4	-	-	-	-
Feeder Hours	8	-	9	-	9.5	-	-	-	-

species of sparrows, and Bobolink. Observers: Sandy Bivens, Kevin Bowden, Susan Bradfield, Jack and Linda Brown, David and Jean Buchanan, Ed Byrne, Phillip Casteel, Richard Conners, Nancy Dillway, Heather Gallagher, Ed Gleaves, Mark Hackney, Diane Hall, Pat and Susan Hollyday, Linda Kelly, Robert Lane, Jon Mann, Ken Oeser, Amy Potter, Rebecca Reveal, Sarah Scott, Jan Shaw (compiler: 5019 Timberhill Dr., Nashville, TN 37211; jankshaw@aol.com), Kathy Shaw, Christopher Sloan, Shirline Spicer, Joe Stone, Sabin Thompson, and Mary Zimmerman.

**White County** — 7 May; 0330-1930. Weather: clear in the morning turning partly cloudy in the afternoon, with winds at 0-10 mph; 45-78° F. Highlights included Brant, Sora, Stilt Sandpiper, Horned Lark, Sedge Wren, Golden-winged Warbler, and Bobolink. Observers: Douglas A. Downs (compiler: 403 Gillen Dr., Sparta, TN 38583; douglas\_downs@hotmail.com), Joseph E. Mast, Michael P. O'Rourke, Thomas Saya, Barbara H. and Stephen J. Stedman.

**Van Buren County** — 30 April; 0500-1900. Weather: cloudy with drizzle all day and wind at 0-15 mph; 55-60° F. Notable species found for this count included Sora, Yellow-bellied Sapsucker, Bank Swallow, Red-breasted Nuthatch, Sedge Wren, 6 species of thrushes, Lincoln's Sparrow, and Bobolink. Observers: Douglas A. Downs, Edmund K. LeGrand, Michael P. O'Rourke, and Stephen J. Stedman (compiler: 2675 Lakeland Dr., Cookeville, TN 38506; sstedman@tntech.edu).

## THE SPRING SEASON

RICHARD L. KNIGHT, Editor



1 JUNE - 31 JULY 2005

This season's temperatures were above normal statewide. Rainfall amounts varied from below average for most of the western and middle portions of the state to slightly above average for the eastern portions. After moving through the eastern Gulf of Mexico, the remnants of Hurricane *Dennis* passed northward through West Tennessee on 11-12 July.

The avian fallout from *Dennis* was concentrated at Pickwick Lake, where a Parasitic Jaeger, a Royal Tern, a Bridled Tern, and 14 Sooty Terns were reported. In addition, Sooty Terns were found at FIVE other sites in three regions. A Brown Pelican appeared at Chattanooga and lingered well into the autumn season. This tropical system also produced a few Laughing Gulls. Other terns and shorebirds seen in association with this storm may have been blown inland with the vagrants mentioned above, while some likely were grounded mid-continental migrants.

Western Kingbirds nested again near Memphis and Scissor-tailed Flycatchers nested in three regions. Least Bitterns and Virginia Rails continued to nest at Standifer Gap Marsh in Hamilton County. Single reports of Bewick's Wren and Bachman's Sparrow came from the Highland Rim and Basin Region. Singing Yellow-rumped Warblers were found at Roan Mountain, where the species has nested once.

### Standard Abbreviations

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

**WESTERN COASTAL PLAIN REGION** — This was a dry summer for the region. The temperature was slightly above normal in June while July was quite mild. A flock of White Ibises showed up in late June at Hatchie NWR and a Roseate Spoonbill was seen in Obion County in late July. Two species of western flycatchers nested again in Shelby County — Western Kingbirds for the fifth year in a row at Ensley and Scissor-tailed Flycatchers for the third year in a row at President's Island.

*Duck - Coot:* **American Wigeon:** 5 Jun (2) White Lake WMA (JRW). **Blue-winged Teal:** 10 Jun (1) Shelby Farms (VBR); 29 Jun (1) Hatchie NWR (CHB, LVZ). **Ring-necked Duck:** 5 Jun (3) White Lake WMA (JRW). **Lesser Scaup:** 11 Jun (2) McKellar L, Shelby Co (JRW). **Pied-billed Grebe:** 10 Jun (1) Shelby Farms (VBR). **American White Pelican:** 5 Jun (13) White Lake WMA (JRW). **White Ibis:** 22 Jun - 2 Jul (7 im) Hatchie NWR (CHB, Robert Fowler, VBR, LVZ). **Roseate Spoonbill:** 29 Jul (1) Obion Co (MAG). **Mississippi Kite:** 29 Jul (1) Gibson Co (MAG). **Bald Eagle:** 5 Jun (1) Dyer Co & (1) Lake Co (JRW, LVZ, John Zempel). **Common Moorhen:** 10 Jun (1) Shelby Farms (VBR). **American Coot:** 13 Jul (1) Shelby Farms (CHB, LVZ).

*Plover - Tern:* **Piping Plover:** 29 Jul (1) Lake Co (MAG). **Solitary Sandpiper:** 10 Jul (1) EARTH Complex (CHB, LVZ), ers. **Willet:** 20 Jul (1) EARTH Complex (JRW). **Sanderling:** 29 Jul (1) Lake Co (MAG). **Semipalmated Sandpiper:** 4 Jun (8) / 13 Jul (7) EARTH Complex (JRW / CHB, LVZ), lrs / ers. **Least Sandpiper:** 4 Jun (3) / 10 Jul (50) EARTH Complex (JRW / CHB, LVZ), lrs / ers. **White-rumped Sandpiper:** 4 Jun (164) / 17 Jun (2) EARTH Complex (JRW), max / lrs. **Pectoral Sandpiper:** 10 Jul (1) EARTH Complex (CHB, LVZ), ers. **Stilt Sandpiper:** 6 Jul (1) EARTH Complex (JRW), ers. **Long-billed Dowitcher:** 4 Jul (1) Chickasaw NWR, Lauderdale Co (JRW); 16 Jul (1) EARTH Complex (JRW). **PARASITIC JAEGER:** 11 Jul (1 ad, light morph) Pickwick L. (JRW, MCT). **Laughing Gull:** 12 Jul (1) Gibson Co (MAG). **Franklin's Gull:** 30 Jul (1) Mud Is. (JRW). **Ring-billed Gull:** 30 Jul (1) Mud Is. (JRW). **ROYAL TERN:** 12 Jul (1) Pickwick L. (JRW, MCT, Don Manning), second state record. **Caspian Tern:** 30 Jul (2) Mud Is. (JRW). **Common Tern:** 11 Jul (3) Pickwick L. (JRW); 12 Jul (1) Gibson Co (MAG). **Least Tern:** 10 Jul (7) Ensley, Shelby Co (CHB, LVZ). **SOOTY TERN:** 11-12 Jul (14) Pickwick L. (JRW, MCT); 12 Jul (1) Gibson Co (MAG). **BRIDLED TERN:** 11 Jul (1) Pickwick L. (JRW, MCT), first state record. **Black Tern:** 12 Jul (3) Gibson Co (MAG).

*Flycatcher - Sparrow:* **Western Kingbird:** 4 Jun (pair with nest, later abandoned) / 2 Jul (pair + 2 ad with 2 yg) Ensley, Shelby Co (JRW); 4 Jul (1) North Memphis (JRW). **Scissor-tailed Flycatcher:** 4 Jun - 17 Jul (nesting pair, 3 yg on 23 Jun) President's Is., Shelby County (CHB, Steve Veltman, JRW); 12 Jun (1) Tipton Co (JRW). **Yellow Warbler:** 26 / 29 Jun (1) Hatchie NWR (CHB, LVZ). **Worm-eating Warbler:** 3 Jun (1) Shelby Forest (WRP). **Swainson's Warbler:** 3 / 22 Jun (1) Shelby Forest (WRP / CHB). **Scarlet Tanager:** 3 Jun (2) Shelby Forest (WRP). **Lark Sparrow:** 20 Jun (2) Henry Co (MCT). **Grasshopper Sparrow:** 5 Jun (15) Lake Co (LVZ, John Zempel).

*Locations:* EARTH Complex - in Shelby Co.; Hatchie NWR - in Haywood Co; Mud Is. - in Shelby Co; Pickwick L. - in Hardin Co; Shelby Farms - in Shelby Co; Shelby Forest - in Shelby Co; White Lake WMA - in Dyer Co.

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**HIGHLAND RIM AND BASIN REGION** — The short summer season produced generally hot and dry conditions in the Nashville area, although the humidity was often quite high. The two summer months were both about two degrees above their mean monthly temperatures, but that does not tell the whole story. Almost half of the days in June and nearly two-thirds of the days in July had temperatures in the 90+ degree range. Both months had rainfall amounts of about 2.5 inches, which is one-third below the expected total.

*Egret - Cuckoo:* **Snowy Egret:** 31 Jul (1) near Celina, Clay Co (SJS, Terry Campbell). **Little Blue Heron:** 29 Jul (1) Radnor L (Jan Shaw). **White Ibis:** 29 Jun (35 flying over, 5 settled down at pond) near Loretto, Lawrence Co (fide DJS). **Willet:** 13 / 14 Jul (3 / 1) White Co, separate sites (DAD, SJS). **Western Sandpiper:** 12 Jul (1) White Co (DAD, SJS). **Pectoral Sandpiper:** 14 Jul (1) White Co (DAD, SJS). **Short-billed Dowitcher:** 22 Jul (1) Hillsboro, Coffee Co (Jerry Ingles). **American Woodcock:** 26 Jun (1) Cane Cr. Park, Putnam Co (SJS). **SOOTY TERN:** 12 Jul (1 ad) Percy-Priest L., Davidson Co (Richard Connors); 12 Jul (1 ad - found dead) western Putnam Co (SJS, Barbara Stedman); both were first Co. records, the result of the passage of Hurricane *Dennis*. **Black-billed Cuckoo:** 4 Jun (1) Putnam Co (Richard W. Simmers, Jr.).

*Flycatcher - Sparrow:* **Willow Flycatcher:** 21 Jun (2, singing) Shelby Bottoms (PDC). **Least Flycatcher:** 17 Jun (1, singing) Fort Campbell, Stewart Co (Daniel Moss), in loblolly pine stand. **Scissor-tailed Flycatcher:** 3 Jun (1) Florence Rd., Murfreesboro (Jeff Cowell), where they nested last year; 5 Jul (pair at nest with yg) Hwy 231 south of Murfreesboro (Scott Degenhardt); 19 Jun / 6 Jul (1) Franklin Co (Doug & Crystal Malone / Jerry Ingles). **Purple Martin:** 30-31 Jul (roost of 10,000+) Dale Hollow L., Clay Co (SJS et al.), martins were seen in the vicinity of this roost site about two weeks before & after cited date, site first detected via radar images during summer of 2004 by members of the Purple Martin Society (fide SJS). **Bewick's Wren:** 10 Jun (1) Sumner Co (Michael Roedel). **Cedar Waxwing:** 1 Jun (110+) Shelby Bottoms (PDC, Frank Fekel); 7 Jun (2) Radnor L (Sharon Monroe); 16 Jun (3) Shelby Park (PDC). **Mourning Warbler:** 4 Jun (1) Nashville (Jan Alexander), late. **Bachman's Sparrow:** 17 Jun (1) Wayne Co (DJS). **White-throated Sparrow:** 10 Jun (1) Nashville (Sharon Monroe), late.

*Locations:* Radnor L - in Davidson Co; Shelby Park/Bottoms - in Davidson Co.

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**CUMBERLAND PLATEAU / RIDGE & VALLEY REGION** — Temperatures were above average this summer, as was rainfall. The remnants of Hurricane *Dennis* brought Sooty Terns and a Brown Pelican (that lingered well into autumn) to the Chattanooga area. A fallout of shorebirds at Eagle Bend Fish Hatchery was also associated with *Dennis*. Noteworthy breeding reports were received for Least Bittern, Cattle Egret, Yellow-crowned Night-Heron, Virginia Rail, Willow and Scissor-tailed Flycatchers, among others.

*Duck - Falcon*: **Blue-winged Teal**: 26 Jun (3) Kingston Steam Plant (DJT). **Redhead**: 26 Jun (1 male) Kingston Steam Plant (DJT). **Common Loon**: 12 / 23 Jul (1 / 2) Tennessee R., Hamilton Co (KAC, DRJ). **Pied-billed Grebe**: 13 Jul (1) Eagle Bend (RDH, DMy), ers. **BROWN PELICAN**: 11 Jul thru season (1 im) Chickamauga Dam (DRJ, m.ob.), third Co record & about fifth state record. **Double-crested Cormorant**: 19 Jun (1 on nest) Rankin Bottoms (DHM, MBS, LJG). **Least Bittern**: thru season (10 nests simultaneously active) Standifer Gap Marsh (DEP). **Great Egret**: 23 Jun / 30 Jul (20+) Rankin Bottoms (MBS, LJG). **Cattle Egret**: 29 Jun (6 nests with yg) near Kingston Steam Plant on Clinch R., Roane Co (Wes James). **Black-crowned Night-Heron**: 17 Jul (3) Standifer Gap Marsh (DEP et al.), scarce in Chattanooga area; 19 Jun / 30 Jul (4) Rankin Bottoms (MBS, LJG). **Yellow-crowned Night-Heron**: 4 Jul (nest with 1-2 yg) Bristol (fide JWC); 23-24 Jul (1-2 ad) Hamilton Co (DRJ, KAC), has become hard to find there. **White Ibis**: 13-16 Jul (2 im) Eagle Bend (Jim & Betty Reid Campbell, m.ob.); 16 Jul (3 im) near Oak Ridge, Anderson Co (RDH, DMy, NeM). **Bald Eagle**: 9 Jul (1 ad) Clinch R., Hancock Co (Ron & Rose Lapp). **Red-shouldered Hawk**: 19 Jun (2) Rankin Bottoms (DHM); 9 Jul (1) Hawkins Co (DHM); 24 Jul (1) Greene Co (DHM). **Peregrine Falcon**: thru season (2 ad, 1 yg) Chickamauga Dam (fide KAC).

*Rail - Woodpecker*: **Virginia Rail**: thru Jun (10+ calling, 3 nests) Standifer Gap Marsh (DEP). **Semipalmated Plover**: 30 Jul (1) Rankin Bottoms (MBS, LJG), ers. **Greater Yellowlegs**: 12 Jul (2) Eagle Bend (AJT), ers. **Lesser Yellowlegs**: 13 Jul (60+) Eagle Bend (RDH, DMy), max. **Willet**: 13-15 Jul (3) Eagle Bend (Jim & Betty Reid Campbell, m.ob.). **Western Sandpiper**: 12-13 Jul (1) Eagle Bend (AJT); 30 Jul (1) Rankin Bottoms (MBS, LJG). **Least Sandpiper**: 13 Jul (98) Eagle Bend (RDH, DMy), max. **Short-billed Dowitcher**: 12 / 13 Jul (1 / 4) Eagle Bend (AJT / RDH, DMy); 16 Jul (1) Limestone (DHM). **Laughing Gull**: 11 Jul (1 ad) Nickajack Dam (KAC). **Forster's Tern**: 11 Jul (2) Hamilton Co (KAC et al.); 14 Jul (1) Eagle Bend (AJT); 14 Jul (1) Cove Lake SP, Campbell Co (NeM). **SOOTY TERN**: 11 Jul (4 ad) Chickamauga Dam (KAC, m.ob.), first Co record; 13 Jul (1 ad) Nickajack Dam (DJS). **Black Tern**: 12 Jul (1) Nickajack Dam (John Henderson, Janice Chadwell); 19 Jul (1) Eagle Bend (Bates Estabrooks); 26 Jul (25) Tennessee R., Hamilton Co (DRJ, KAC). **Barn Owl**: 10 Jun - 8 Jul (1-2) Greene Co (DHM); 14 Jul (1 ad, 2+ yg) Bluff City, Sullivan Co (JWC, Ron Harrington). **Red-headed Woodpecker**: 12 Jun (singles at 3 sites) Greene Co (DHM); 19 Jun (2) Rankin Bottoms (DHM, MBS, LJG).

*Flycatcher - Bobolink*: **Willow Flycatcher**: 6 Jun (ad on nest with 3 eggs) Standifer

Gap Marsh (DEP), later abandoned; 26 Jun (1) Kingston Steam Plant (DJT). **Scissor-tailed Flycatcher**: 4 Jun (pair with nest) Bledsoe Co (Roi & Debbie Shannon); 5 Jun / 30 Jul (2 ad / 2 ad, 3 yg) South Pittsburg, Marion Co (Dennis & Gwen Harris / DRJ, John Henderson, Janice Chadwell); breeding has occurred at both sites in recent years. **Warbling Vireo**: 13 Jun (1) Cherokee Dam, Jefferson Co side (DHM); 19 Jun (5) Rankin Bottoms (DHM, MBS, LJG); 2 Jul (2) Nolichucky R., Hamblen Co (DHM); 17 / 31 Jul (1 / 2) separate Washington Co sites (DHM / DAH). **Loggerhead Shrike**: 11 Jun (1) Hamblen Co (DHM); 11 Jul (2 ad, 2 yg) Conklin, Washington Co (DAH). **Horned Lark**: 12 Jun (1) Greene Co (DHM, DAH). **Tree Swallow**: 23 Jun (1,000+) Rankin Bottoms (MBS, LJG), max. **Cerulean Warbler**: 17 Jul (1) Craven's House, Hamilton Co (KAC), first migrant. **Prothonotary Warbler**: 19 Jun (39) Rankin Bottoms (DHM, MBS, LJG), remarkable number for region. **Swainson's Warbler**: 20-21 Jul (1) Cove Lake SP, Campbell Co (NeM). **Savannah Sparrow**: 9 Jun thru season (1+1) separate Greene Co sites (DHM); 17 Jul (1) Limestone (DHM). **Rose-breasted Grosbeak**: 31 Jul (1 male) Bluff City, Sullivan Co (Bert Hale), early migrant. **Blue Grosbeak**: 12 Jun (12) Greene Co (DHM, DAH), max. **Dickcissel**: thru 16 Jul (1-2 at 3 sites) Limestone (DHM et al.), one site occupied for tenth consecutive year; 12 Jun (6 at 3 sites) Greene Co (DHM, DAH), one site occupied for eighth consecutive year; 19 Jun (1) Cocke Co (DHM); 23 Jun (1) Bledsoe Co (Jimmy & Cynthia Wilkerson). **Bobolink**: 20 Jun / 11 Jul (2 males) Conklin, Washington Co (DAH).

*Locations*: Chickamauga Dam - in Hamilton Co; Eagle Bend - fish hatchery in Anderson Co; Kingston Steam Plant - in Roane Co; Limestone - in Washington Co; Nickajack Dam - in Marion Co; Rankin Bottoms - in Cocke Co; Standifer Gap Marsh - in Hamilton Co.

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**EASTERN MOUNTAIN REGION** — Daily temperatures were slightly above normal for both June and July. Precipitation was 2.5 inches above normal for the period. It was a good nesting season for Yellow-crowned Night-Herons in Carter County. The first breeding season record of Savannah Sparrow in Sullivan County is noteworthy.

*Duck - Sapsucker*: **Hooded Merganser**: 17 Jun (1 female) Shady Valley, Johnson Co (JWC). **Snowy Egret**: 15 Jun (1) Watauga R., Carter Co (Larry McDaniel, John Hay et al.). **Black-crowned Night-Heron**: 3 Jul (1 ad) Watauga R., Carter Co (DAH). **Yellow-crowned Night-Heron**: thru season (yg fledged from 5 nests) Elizabethton (DAH et al.). **Osprey**: 12 Jul (1) Roan Mtn village (Nora Schubert). **Bald Eagle**: 9 Jul (1 ad) S. Holston L., Sullivan Co (Ken Hale). **Red-shouldered Hawk**: 17 Jun / 3 Jul (3 / 1) Elizabethton (DAH et al.). **American Woodcock**: 25 Jun (1) Whigg Meadow, Monroe Co (David Vogt); 4 / 8 Jul (2 / 1) Orchard Bog in Shady Valley, Johnson Co (Lynn Eastin). **Mourning Dove**: 17 Jun (2) Carver's Gap on Roan Mtn

(TSM). **Barn Owl:** thru period (2-3) Holston Valley, Sullivan Co (Richard Lewis). **Northern Saw-whet Owl:** 17-18 Jun (1) Roan Mtn (RBB). **Yellow-bellied Sapsucker:** 18 Jun (1) Roan Mtn. SP (RBB).

*Flycatcher - Siskin:* **Alder Flycatcher:** 18 Jun (3) Carver's Gap on Roan Mtn (RBB); 25 Jun (1) Hampton Cr. Cove, near Roan Mtn (Nora Schubert). **Least Flycatcher:** 18 Jun (15) Roan Mtn (RBB), max; 25-26 Jun (1) Whigg Meadow, Monroe Co (David Vogt), in thicket of small black birch at 4700 ft. elevation. **Cliff Swallow:** 15 Jun (13 nests) bridge over Wilbur L., Carter Co (Brookie Potter), new site. **Hermit Thrush:** 17-18 Jun (1-2) Roan Mtn (TSM, Mike Poe). **Brown Thrasher:** 4 Jul (2) Carver's Gap on Roan Mtn (Ed Talbot). **Yellow-rumped Warbler:** 26 May / 17 Jun (2 males / 1 male) separate sites on Roan Mtn (Marcus Simpson / TSM). **Savannah Sparrow:** 28 Jun (1 singing) Holston Valley, Sullivan Co (JWC, Dave Worley), first breeding season record for Co. **Pine Siskin:** 9-10 Jun (20+) Great Smoky Mtns. National Park (Charlie Muise); 17 Jun (6) Roan Mtn (TSM).

*Locations:* Roan Mtn. (including the SP & the village) - in Carter Co.

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PDC - Phillip D. Casteel	WRP - W. Robert Peeples
JWC - J. Wallace Coffey	VBR - Virginia B. Reynolds
DAD - Douglas A. Downs	DJS - Damien J. Simbeck
LJG - Leslie J. Gibbens	MBS - Michael B. Sledjeski
MAG - Mark A. Greene	SJS - Stephen J. Stedman
RDH - Ron D. Hoff	MCT - Michael C. Todd
DAH - Don A. Holt	AJT - Allan J. Trently
DRJ - Daniel R. Jacobson	DJT - David J. Trently
TSM - Thomas S. McNeil	JRW - Jeff R. Wilson
DHM - Don H. Miller	LVZ - Linda V. Zempel

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