



# THE MIGRANT



A QUARTERLY JOURNAL  
DEVOTED TO TENNESSEE BIRDS

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# THE MIGRANT

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## BROWN-HEADED COWBIRD REMOVES EGG FROM CERULEAN WARBLER NEST

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Brown-headed Cowbirds (*Molothrus ater*) affect reproductive success of other breeding species directly by parasitizing their nests. Indirect effects are less well-known. Host egg removal or direct nest depredation by Brown-headed Cowbirds (Arcese et al. 1996) may result in measurable loss of reproductive output by the hosts. Zimmerman (1983) states that Brown-headed Cowbird egg removal is a more important source of decreased reproduction by Dickcissels (*Spiza americana*) than is the reduction due to nest failure that is caused by the Brown-headed Cowbird nestlings outcompeting Dickcissel chicks for food.

Ortega (1998) provides references to egg removals among at least 20 host species in eight families (Table 1).

**Table 1.** Species from whose nests Brown-headed Cowbirds have been observed to remove eggs, from Ortega (1998) unless otherwise noted.

Eastern Kingbird <i>Tyrannus tyrannus</i>	Ovenbird <i>Seiurus aurocapillus</i>
Red-eyed Vireo <i>Vireo olivaceus</i>	Common Yellowthroat <i>Geothlypis trichas</i>
Black-capped Vireo <i>V. atricapillus</i>	Scarlet Tanager <i>Piranga olivacea</i>
American Robin <i>Turdus migratorius</i>	Chipping Sparrow <i>Spizella passerina</i>
Gray Catbird <i>Dumetella carolinensis</i>	Field Sparrow <i>S. pusilla</i>
Brown Thrasher <i>Toxostoma rufum</i>	Song Sparrow <i>Melospiza melodia</i>
Yellow Warbler <i>Dendroica petechia</i>	Dark-eyed Junco <i>Junco hyemalis</i>
Chestnut-sided Warbler <i>D. pensylvanica</i>	Northern Cardinal <i>Cardinalis cardinalis</i>
Kirtland's Warbler <i>D. kirtlandii</i>	Indigo Bunting <i>Passerina cyanea</i>
Prairie Warbler <i>D. discolor</i> (Nolan 1978)	Dickcissel <i>Spiza americana</i>

Among these, only the Scarlet Tanager nests solely in canopies of dominant and codominant trees. Red-eyed Vireos may also nest in canopy trees, while the majority of these species nest primarily in mid- or understory vegetation. We know of no reason for the under-representation of canopy-nesting birds in this list, compared to below-canopy nesters, other than the greater difficulty of observing canopy nesters, which may have limited the reporting of egg removals by cowbirds from nests of canopy-nesting species. Thus, Brown-headed Cowbirds may routinely remove eggs from nests of a wider diversity of species (see King 1979).

Ortega (1998) summarizes in detail the published information on the hosts of Brown-headed Cowbirds, their effects on hosts, and their behavior toward individual hosts. Mention of Cerulean Warbler (*Dendroica cerulea*) consists only of a notation that the species is a host to the parasite. Norris (1947:89) observed a female Brown-headed Cowbird visit a Cerulean Warbler nest, sit in the nest, and leave. The nest was later noted to include a single Cerulean Warbler egg that "had been punctured, apparently by a bird's mandibles." In this note, we report the first observed instance of a female Brown-headed Cowbird removing an egg from the nest of a Cerulean Warbler.

Since 1992, we have conducted life history observations of Cerulean Warblers at Chickasaw National Wildlife Refuge (NWR), Lauderdale Co., Tennessee; Meeman Shelby Forest State Park, Shelby Co., Tennessee; and Desha Delta Hunt Club, Desha Co., Arkansas. On 25 June 1998 during routine observations of a Cerulean Warbler nest at Chickasaw NWR along the banks of the Lower Forked Deer River, Hamel observed a female Brown-headed Cowbird remove an egg from a Cerulean Warbler nest. The nest, at 19 m in a sycamore (*Platanus occidentalis*), had been discovered 17 June by Woodson and was under construction on that date. At 1700 CST a female Brown-headed Cowbird flew directly to the nest. Standing at the nest, she poked her bill into the nest four or five times. When she raised her head, she had an egg in her bill. Hamel could not tell whether she had impaled the egg on her bill or was holding it in her open bill. The egg looked heavily marked, but Hamel could not determine whether it was a Cerulean Warbler egg or a Brown-headed Cowbird egg. After obtaining the egg, the female cowbird promptly flew off to the southeast. The entire nest visit and egg removal incident took less than 60 sec. Five minutes after the female cowbird's arrival, a male Cerulean Warbler sang twice approximately 40 m south of the nest. Nest observations continued until 1710. No Cerulean Warbler visited the nest or the nest tree during the 60-min observation period. The height of the nest prohibited determination of its contents. Whether incubation had begun 25 June was uncertain.

This Cerulean Warbler nest was abandoned, whether before or after the egg removal incident is unclear. The Brown-headed Cowbird activity may have been associated with the abandonment of the nest (Strausberger and Burhans 1999; Arcese et al. 1996). We speculate that several other unexplained nest abandonments in our study of Cerulean Warblers at Chickasaw NWR and elsewhere in the lower Mississippi Alluvial Valley (Hamel 1998) may have been associated with cowbird activity as well. Cowbird parasitism in our study populations was at least 17% (Hamel

1998). Because the nests are built at great height, typically 9-12 m ( $11.4 \pm 0.41$  SE,  $N=80$ ; Hamel 2000), but up to 37m (Hamel pers. obs.) we have been unable to determine whether other abandonments by Cerulean Warblers were due to cowbird activity, as was possible in this instance.

Obtaining observations of Brown-headed Cowbird egg removal is difficult because the behavior takes only a few seconds. The difficulty is further magnified for nests of canopy-nesting species, making observations of egg removal from such nests particularly noteworthy. As far as we know, this is the first observed instance of a female Brown-headed Cowbird removing an egg from a Cerulean Warbler nest.

#### ACKNOWLEDGMENTS

The work on Cerulean Warblers at Chickasaw NWR has been facilitated by cooperative agreement between the Forest Service and the U. S. Fish and Wildlife Service. We appreciate the comments of Catherine Ortega, Charles P. Nicholson, Stephen J. Stedman, and two anonymous reviewers on earlier drafts of this note.

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## CONFIRMED BREEDING OF COOPER'S HAWK IN URBAN SHELBY COUNTY

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On 25 February 2000, my husband, N.P. (Mac) McWhirter, and I were taking our regular early morning walk through our neighborhood in Memphis when we heard a loud "kip, kip, kip" call coming from the tree branches overhead. We soon located two hawks perched about 6 m above us. We identified them as Cooper's Hawks (*Accipiter cooperii*) based on the following characteristics: size of an American Crow (*Corvus brachyrhynchos*); dark head and wings, and delicate red and cream barring on the breast; a long tail, rounded at the tip, with wide dark and cream banding and a distinct cream terminal band. Because of the size difference (one being about 20% larger), we assumed they were male and female. Stokes and Stokes (1996) described the call we heard as being given by Cooper's Hawks during alarm or during pair interactions. Over the next week (26 February to 1 March) we saw and/or heard one or both hawks nearly every day at the same location.

On 2 March, we observed a hawk fly to a tangle of sticks just below the canopy in the top of a loblolly pine (*Pinus taeda*) about 7 m tall in a small grove of pines of similar size. This apparent nest location was about 20 m from where we had made our initial sighting. The grove of pines is situated in the corner of a fairly large front yard at the intersection of two streets. Located geographically in the center of Memphis, the neighborhood is characterized by large, heavily-wooded lots, no sidewalks, and only local automobile traffic.

From 6 March until 11 March, we continued to see and/or hear at least one hawk approximately every other day near the apparent nest. On 13 March, we again saw a hawk perched on the suspected nest, which had grown in size. A hawk was seen flying to the nest on 14 March. On 21 March and again on 31 March, we saw two hawks perched together (about 3 m apart) in a large willow oak (*Quercus phellos*) adjacent to the pine grove. On 12 April, we could see that a hawk was sitting in the nest, as if laying or incubating eggs. From our vantage point, we could see only the tail with its light terminal band sticking out from the edge of the nest. Bent (1937) states that this is often the case when a female hawk is incubating.

From 12 April to 30 April and on throughout the month of May, we regularly observed a hawk either sitting on the nest or perched on its edge. On 16 May, one hawk was on the nest while the other perched in a nearby tree, being mobbed by Blue Jays (*Cyanocitta cristata*).

On 6 June, we saw a wing of a nestling being raised from within the nest while the adult hawk was there. On 13 June the downy head of a nestling could be seen. On that same day, in the large willow oak where an adult hawk had most often perched, we saw an adult Cooper's Hawk about 3 m above us on a dead branch. A

search of the ground below the perch produced three large egg fragments and several clumps of feathers along with a large amount of droppings. The egg fragments were chalky white on the outside and pale blue on the inside, with no streaks, spots or other markings. The largest fragment was of the more pointed half of an egg and was 3.5 X 3 cm. Size and coloration were consistent with Harrison's description of the eggs of Cooper's Hawks. The feathers below the perch were those of a Blue Jay, Northern Flicker (*Colaptes auratus*), and Mourning Dove (*Zenaida macroura*). There were also five larger feathers with gray-brown and off-white barring that appeared to be from an adult Cooper's Hawk.

On 16 June, we observed for the first time two young hawks in the nest, and an adult hawk perched in a nearby oak. Mac took photographs of the two young on 18 June; they were flapping their wings and, at one point, one of them moved out of the nest onto a branch just above the nest. This was the last date we saw the young at the nest.

On 26 June, I collected eight pellets from under the nest and five pellets from under the regular adult perch in the oak tree. The pellets from the nest site were smaller on average than the ones from the perch site. The largest from the nest site was 4.5 X 2 cm, while the rest were about 3 cm X 1.25 cm. The largest of the pellets from the perch site was 4.5 cm X 3 cm, three were 3.5 X 2 cm, and one was 2.5 X 1.5 cm. Paul W. Parmalee, professor and museum director emeritus of the Frank H. McClung Museum of the University of Tennessee analyzed the pellets. He reported that there was very little bone present, and what was there was badly broken and eroded from digestion. He noted that this is typical of hawk pellets, since they tend to tear up their prey more so than do owls. Among the nest site pellets Dr. Parmalee identified one Blue Jay and one Mourning Dove, possibly a juvenile. Among the adult perch site pellets there was represented one small unidentifiable passerine and one woodpecker, a *Melanerpes* species, either a Red-headed or a Red-bellied. Dr. Parmalee noted an additional point of interest: one pellet from the adult perch site contained a toe bone of a small bird and a crop full of undigested seeds.

On 28 June, we saw an adult Cooper's Hawk perched in a black cherry tree (*Prunus serotina*) next to the pine grove and found the feathers of a Northern Mockingbird (*Mimus polyglottus*) under the regular perch. The hawks apparently dispersed from the nest site soon after this date. We continued to see Cooper's Hawks regularly in our neighborhood throughout the rest of the summer months, but were unable to determine whether they were adults or juveniles.

On 5 July, the two juvenile birds, with brown streaks on their breasts, as opposed to the fine reddish barring of the adults, were seen together in the oak tree adjoining the pines. One juvenile was clutching a smaller bird in its beak, while the other was immediately next to it, making a "kew, kew" cry. The bird with prey flew to a tree in the pine grove, and the other juvenile immediately followed. On 14 July, we saw one juvenile and heard it making this same cry.

This nesting is apparently only the fourth confirmed breeding record of Cooper's Hawks in West Tennessee (Nicholson 1997). A review of *The Migrant* shows only

two other confirmed breeding records: 24 June 1945, an adult with three young at Forest Hill Cemetery, Shelby County (Coffey, 1945); 15 March 1950, an adult placing a stick on a nest, also at Forest Hill Cemetery, Shelby County (Coffey, 1950). During 1986-1991 Breeding Bird fieldwork, there were a few observations from West Tennessee in the "possible breeding" category, and one nest with three young was reported in Henderson County on 7 July 1986 (Nicholson 1997). Cooper's Hawk was recently removed from "In Need of Management" status in Tennessee, but remains quite uncommon in West Tennessee.

#### ACKNOWLEDGEMENTS

Special thanks go to Dr. Paul Parmalee for his analysis of the pellets and to Martha Waldron for her tremendous assistance in research and writing this article.

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*The Migrant*, 71: (1) 6-7, 2000.

## BANDED TRUMPETER SWAN FOUND IN SHELBY COUNTY

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In mid-January 2001, I responded to a message on my answering machine concerning a dead Trumpeter Swan (*Cygnus buccinator*) found by Debbie and Billy Moore in their yard near Bolton, Tennessee. The Moores had tentatively identified it from a field guide and knew that a Trumpeter Swan did not belong in this area. Most importantly, they reported that it was banded.

The bird had been found on January 6, 2001, near the intersection of Millington-Arlington Road and Deadfall Road, about 6.5 miles east of Millington, Shelby County, TN. The coordinates as best I can tell would be 35.20 N, 89.46 W. The Moores took pictures of the bird and saved the neckband. When they found the bird, the feet were missing and feathers were all over their yard. Knowing that this would be quite a record for West Tennessee, I encouraged them to call me back with a description of the band and the numbers on it. The bird had a red neck band about 3 inches wide with the code H59 in white letters. I found that this did match the protocol for Trumpeter Swans, so I sent the information by e-mail to the Bird Banding Lab at Laurel, MD.

The next morning I received the following report from the Maryland Bird Banding Lab: "This neck band is indeed from a Trumpeter Swan. Trumpeter Swans are being released in several midwestern states. This collar came from a bird released in Iowa. These birds are not considered to be 'countable' by birdwatchers as they are just being introduced and are not yet a viable population. We'll send you the banding information for this Trumpeter Swan. For more information on Trumpeter Swan releases, see the web pages of the Trumpeter Swan Society." The report from the USGS Patuxent Wildlife Research Center later described the bird as a male, hatched in 1999, banded by Mr. Guy G. Zenner of the Iowa Department of Natural Resources, and released near Quimby, Iowa. A letter from David Hoffman of the Iowa Department of Natural Resources gave a few more details: "The swan came from Larson Lake (Cherokee County) and was released 03-24-00 from Doyle Simonson's Pond near Quimby, Iowa. This swan was observed at two different locations since its release. He was sighted with two of his siblings on Nov. 25-27, 2000, near What Cheer and Ottumwa, IA. Sorry to hear about the fate of this swan."

The significance of this finding was put into perspective by Bob Hatcher (personal communication, 26 January 2001): "Trumpeter Swans have been reported during the last few winters north, west, and south of West Tennessee. We have had a few unconfirmed but very possible sightings, including one at Lake Lauderdale on or about January 22, 1997. If there are any other documented sightings for the Trumpeter Swan in Tennessee, I am not aware of it." According to J. C. Robinson (1990), the last reported sightings of the Trumpeter Swan in Tennessee were both in 1820, by John James Audubon. A search of *The Migrant* turned up no confirmed sightings of this species in Tennessee during the 1990s (Joslin, J.D., personal communication). The "Official List of Tennessee Birds," updated by the Tennessee Bird Records Committee in 1998 (Knight, 1998) lists the Trumpeter Swan as "extirpated" in the state.

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## IN MEMORIAM: NOREEN McDONALD SMITH

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Noreen McDonald Smith, past President of the Society, died 23 January 2001, in a nursing home near Denver, Colorado, at age 88. Noreen was the widow of Dr. Arlo Smith, who died in 1994. Daughters Lynn and Pam and son Jerry survive. Noreen was from Seattle, where she met Arlo at the University of Washington. After their marriage, they lived in Texas before coming to Memphis. Noreen became a member of the Burrow Library staff at Rhodes College (then called Southwestern at Memphis). Arlo was a professor in the Biology Department until 1977, when they both retired.

The Smiths were involved members of the Society from 1953 through the early 1990s. Noreen served as Memphis Chapter Secretary and President and several times as a State Director. She was elected President of the Society for the 1973-1975 term. Noreen was a tireless worker. She assisted in compiling and tabulating 50 years of Memphis Chapter records of sightings in West Tennessee, including the records of Ben Coffey. These efforts produced the data for Martha Waldron's publication, *Seasonal Occurrences of Shelby County, Tennessee Birds*. She ran Breeding Bird Survey routes for more than 25 years, was active in the Breeding Bird Atlas Project, and almost never missed a hike or a Christmas Count. Although small in stature, she could hike further than most any of the other members.

Noreen and Arlo were greatly supportive of the eagle hacking project at Reelfoot Lake in the 1980s. They loaned out a travel trailer for the use of hackers and, for the first season, she and Arlo ran the project with relief only on weekends. It was amazing to see Noreen climb the ladder to the platform, perched 54 feet high in the cypress tree, in order to watch over and feed the eagles. Noreen helped recruit and later coordinated the schedule of volunteers for the duration of the project. The Smiths were members of virtually every environmentalist organization. Dr. Smith was President of the organization that successfully appealed to the Supreme Court to prevent I-40 from cutting through Overton Park in Memphis.

Bird hikes with Noreen and Arlo were also an education in wildflowers — Arlo's specialty and for Noreen an interest second only to birds. Arlo was the author of *A Guide to Wildflowers of the Mid-South*. Noreen also contributed to the field work and photography for the definitive work. In 1990, at the Society's 75th Anniversary celebration, Noreen and Arlo were individually honored with the TOS Service Awards in recognition of their outstanding service to ornithology and the environment.

A soft-spoken, lovely person, Noreen was a friend to everyone. She will be fondly remembered by all who had the pleasure of knowing her.

## MINUTES OF THE SPRING 2000 TOS BOARD OF DIRECTORS MEETING

The Spring Meeting of the Tennessee Ornithological Society (TOS) was held on 05-07 May 2000 in Bristol, Tennessee. This was the 50th anniversary of the Bristol Bird Club, and they put on a great state meeting. Field trips were held in both Tennessee and Virginia. These included trips to several local birding spots led by expert birders. The banquet on Saturday night was excellent, as was the speaker for the evening. The meeting of the TOS Directors was called to order by TOS President Chris Sloan. Secretary Knox Martin reported a quorum present. Copies of the Fall Meeting were available for review. The President moved to postpone approval of the minutes until later in the meeting so members could have a chance to review them.

**REPORT OF OFFICERS.** West Tennessee Vice President Dick Preston, Middle Tennessee Vice President Richard Connors, and East Tennessee Vice President Ron Hoff were all absent; therefore, there were no reports.

**DIRECTORS AT LARGE.** West Tennessee Director-at-Large Donna Ward had no report. There were no reports from Middle or East Tennessee.

**SECRETARY'S REPORT.** Secretary Knox Martin again requested all chapters to supply him with updates on officers and State Directors. He also suggested that, since TOS now had an active web site, that this information could be placed on the site after chapter elections.

**CURATOR'S REPORT.** Curator Chuck Nicholson had no report.

**TREASURER'S REPORT.** Treasurer David Trently reported that in 1999 TOS had approximately \$180,000 in the Massachusetts Investors Trust Fund. That money has now been divided, with \$100,000 going into a CD drawing 5.9% and the balance going into a bond fund drawing 7.25%. This brings in about \$12,000 per year which covers the cost of publishing *The Migrant*.

The Liquid Asset Fund has also been divided between a Dividend Growth Fund and a fund called American Opportunities Fund. Total income for last year was \$20,758.42. This came from \$9283 from memberships, royalties from the *Breeding Bird Atlas* of \$245.91, library subscriptions of \$690, interest and dividends of \$10,078.01, \$230 in memorials in memory of Lula Coffey, \$200 in donations to the Goodpasture Fund, and \$31.50 from the sale of TOS patches.

Expenses included \$14,465.08 for publication of three full and portions of the cost of two issues of *The Migrant*, \$2,995.94 for publication of *The Warbler*, plus several other minor expenses. TOS currently has \$35,000 in savings and checking accounts and \$181,915 in *The Migrant* endowment fund. Current TOS membership stands at 806 with Chattanooga having the largest membership at 183, followed by Memphis with 153 and Nashville with 146.

The Conservation Research Fund currently has a balance of \$5,098.60. The committee in charge of the Conservation Research Fund currently has six members with a seventh soon to be appointed. Current members are Dev Joslin, Melinda

Welton, Bob Hatcher, Martha Waldron, Roger Tankersley and David Hassler. There was some discussion as to how to determine where the monies come from that are used to fund the Conservation Fund. After some discussion it was decided to work on a plan and report the findings at the fall meeting in October. It was also brought up that there may be other ways to make more money with the TOS investments, perhaps a more aggressive fund.

*The Migrant.* Editor Dev Joslin reported that some new TOS members were concerned about when they should begin receiving issues of *The Migrant*. If they join during 2000, should they receive all issues from that year regardless of when they joined? What about back issues? *The Migrant* is usually running at least a year behind. Should new members receive issues as they are published or only receive those issues published for the year they join? Dev moved that those members who join in 2000 receive issues printed with the actual printing date 2000 on the back cover. If members leave TOS, their subscription ends at that point in time also. Melinda Welton seconded the motion. The motion carried with a single nay.

After the motion passed, there was some discussion about when to start and especially when to stop a subscription. Some local chapters have different rules about membership. Right now there is no way to determine who gets the magazine until David Trently receives membership records from each chapter and makes changes to the subscription list. It is currently up to the chapters to get the information to David. It is not fair to the new members who do not get full membership benefits when they join TOS. After some discussion, Dev Joslin made a new motion that members start receiving *The Migrant* when David Trently receives word that they are new members and also that a letter be written to Chapter Treasurers that requests them to be prompt in notifying David about new members. This motion was seconded by Melinda Welton. The vote to accept was unanimous.

*The Tennessee Warbler.* Editor Theresa Graham sent word that the deadline for the next issue is June 30. The current issue is now posted on the TOS website, and there are plans to post past issues as well in the future.

**NOMINATION COMMITTEE.** The committee has made a nomination for the next President of TOS. Chris Sloan will announce the name at the banquet on Saturday night (at the banquet, Chris Sloan announced Chuck Nicholson as the nominee for the next TOS President). The next job for the committee will be a slate of new officers for the 2001-2003 term. If anyone has an interest in serving as a state officer, see Ron Hoff or other members of the committee. Volunteers are always needed for state offices.

**FINANCE COMMITTEE.** There is a real need for volunteers who want to serve on the committee. If you have an interest in helping with financial matters, see David Trently. Currently David is the only member of the committee. If there are any CPAs in TOS who would like to volunteer, it would be a great help.

**RECORDS COMMITTEE.** Mark Greene had no report. Chris Sloan reported that several bird records have been submitted and will be reported on soon. Chris also brought up the fact that several members of the committee did not live in Tennes-

see. He wanted to know the thoughts of the members concerning whether all committee members should live in the state. Currently committee members are all members of TOS. Most of the work is done via phone or internet, but out of state members will probably not be able to attend state meetings. Committee membership probably should depend on knowledge of Tennessee birds, not so much on where a member lives. After some discussion, the members decided that the status quo was fine.

**PARTNERS IN FLIGHT.** Bob Hatcher reported that there is currently no State Ornithologist. It will probably be June or July before a new person is chosen. There has been no decision yet as to whether the position will even be filled. It may not. Some state positions have not been filled. Tennessee currently has over 50 different point count routes. Tennessee has more information than any other state. Mike Roedel of the Nature Conservancy in Alabama has agreed to look over all the records and make sure they are all correct. Fred Alsop will be teaching refresher courses in birding across the state for volunteers who plan to be involved in point counts. There has been a committee formed in Nashville to look into changes to the state Endangered Species List. Wallace Coffey made a motion that TOS send a letter of support to the state concerning the State Ornithologist position. President Sloan volunteered to draft the motion and present it to the membership at the banquet. The motion was seconded and passed by a unanimous vote. There was some talk about replacing Bob Ford as Southeast Coordinator of Partners in Flight, but after it was pointed out that he was still involved with the program and had plans to return to Tennessee in the future, the discussion ended.

**TOS WEBSITE.** Chuck Nicholson reported on the updated and re-designed web site at WWW.TNBIRD.ORG. Some of the sections are not in place yet but will be soon. There is a lot of local chapter information, but much of it is out of date. All chapters should get current information to Chuck as soon as possible. Local chapters can also have their own homepage if they wish. Some chapters have their newsletters on line. There are plans for a "BIRDFINDING" site similar to Lane as well as a "GRANTS AND AWARDS" site with more information than currently available. The Bird Records Committee will soon be updated. Send Chuck any new information you would like added to the site.

**CONSERVATION AND RESEARCH FUNDING COMMITTEE.** Melinda Welton reported that guidelines were available and ready to send out to interested parties. The committee has sent out letters on forestry problems around the state and also has made a number of calls. TOS is now a member of the Policy Council of the American Bird Conservancy. We can now send an observer to the meetings. The committee is now in partnership with TWRA to work on shorebird management in West Tennessee and Cerulean Warbler habitat management at Cheatham WMA and Royal Blue WMA. Eagle Lake WMA and White's Lake WMA are currently being studied regarding future shorebird management. Melinda pointed out that any TOS member can add a little extra for the Conservation Committee when they pay their annual dues.

CARA LEGISLATION. Bob Hatcher reported that a full House of Representatives will vote on the bill next week. It has 316 co-sponsors, so the outlook is good. There is some opposition from "land rights" people, especially in the western U.S. All TOS members should contact their congressmen in support of this bill. Bob has the addresses of all the Tennessee legislators. Six of nine Tennessee congressmen are supporters of the bill, as is Senator Frist. Senator Thompson is not, so be sure to get in touch with him.

Melinda Welton reported on the "Cats Indoors" program. 54,000,000 birds are killed annually by cats. Melinda introduced a resolution of support for the American Bird Conservancy's "Cats Indoors" program. She next introduced a motion of support for the resolution. After the motion was seconded from the floor, it carried by unanimous vote of the membership.

Chris Sloan reported that there was still no site for the spring meeting. A possibility was a joint meeting with the Kentucky Ornithological Society to be held at Land Between the Lakes. The members gave Chris the "OK" to check out this possibility. There is also no site yet for the fall meeting. If your chapter wants to host a state meeting, see Chris.

A motion was made from the floor to accept the minutes of the fall 1999 meeting. The motion was seconded and the vote to accept was unanimous. Chris Sloan then moved to end the meeting, and after being seconded, that vote was also passed unanimously.

Knox Martin  
Recording Secretary

## THE 1999 CHRISTMAS BIRD COUNT

CHRISTOPHER J.E. WELSH  
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Knoxville, TN 37919

The 1999-2000 Christmas Bird Counts in Tennessee were compiled from 28 counts for the season. Over 1,000,000 individual birds representing 156 species were counted (Table 1). Another relatively mild fall and early winter accounted for the presence of a number of species not normally found in Tennessee this late in the year. Thirteen species were represented by only one individual on count days; 17 species were reported from only a single count on count days. Twenty-three species were found on all 28 counts.

Species of note (number of counts) included Eared Grebe (1), American White Pelican (3), Great Egret (2), Black-crowned Night-Heron (2 + 1 cw), Tundra and Mute Swan (1 and 2), Greater White-fronted Goose (1), Blue-winged Teal (1), Greater Scaup (3), Common Merganser (1), Osprey (2), Harlan's Red-tailed Hawk (1), Rough-legged Hawk (1), Golden Eagle (1), Merlin (3 + 1 cw), Peregrine Falcon (3), Greater and Lesser Yellowlegs (1 + 1 cw and 2), Western Sandpiper (1), Least Sandpiper (2 + 1 cw), Dunlin (1), Franklin's Gull (1), Eurasian Collared-Dove (3), Northern Saw-whet Owl (1), Short-eared Owl (2), Rufous and Calliope Hummingbirds (2 and 1), Eastern Wood-Pewee (1), Fish Crow (2), Black-capped Chickadee (3), Sedge Wrens (2), Gray Catbird (3), Blue-headed Vireo (3 + 1 cw), Cape May Warbler (1), Common Yellowthroat (2); American Tree, Lincoln's, LeConte's and Harris' Sparrows (3, 3, 3, and 1); Lapland Longspur (2), Brewer's Blackbird (1 + 1 cw), Red Crossbill (3), and Evening Grosbeak (3).

The 10 most abundant species, based on number of individuals reported, were: (1) Red-winged Blackbird, (2) Mallard, (3) European Starling, (4) American Robin, (5) Common Grackle, (6) American Crow, (7) Ring-billed Gull, (8) American Coot, (9) Canada Goose, and (10) Rock Dove. Sandhill Cranes were 11<sup>th</sup>, White-throated Sparrow and Mourning Dove were 13<sup>th</sup> and 14<sup>th</sup>, Northern Cardinal was 16<sup>th</sup>, and Brown-headed Cowbird was 17<sup>th</sup>.

The Reelfoot count, with 117 species recorded on count day and an additional 6 found during count week (Table 1), set a record for number of species on a Tennessee CBC. Savannah, Memphis, and Chattanooga were the only other counts to reach the 100 species threshold. Hiwassee, Knoxville, and Nickajack Lake counts all reported 94 species on count day. Eight counts had 90 or more species with another 8 counts reporting 80-89 species.

Knoxville mobilized the most people in the field (39), followed by Nashville (37) and Memphis (31) (Table 1). Nashville also had 7 observers at feeders. Knoxville, Chattanooga, and Memphis also tallied the most party hours (100, 95, and 90 hrs, respectively), far surpassing the next most active count, Cookeville (70 hrs). Five counts included birding by boat as part of their effort compared to only one count the previous year. Twenty-four of the 28 counts spent at least some time owling.

Table 1. Species observed, number of individuals, and effort for 28 Christmas bird counts conducted in Tennessee during the 1999-2000 Christmas count period.

<i>Species</i>	Fayt Cly	Memp	Reel Lake	Jack	Sav	CC NWR	Buff Riv	May Gray	Clark	Nash	Hick Priest	Murf	Leb
Common Loon	-	-	2	-	5	-	-	-	-	-	39	-	-
Pied-billed Grebe	7	13	93	26	30	15	8	16	5	10	63	9	17
Horned Grebe	-	-	10	-	26	-	-	-	-	-	48	-	1
Eared Grebe	-	-	-	-	-	-	-	-	-	-	-	-	-
Amer. White Pelican	-	27	26	-	-	-	-	-	-	-	-	-	-
Dbl-crest. Cormorant	-	217	1875	-	15	-	1	1	-	-	-	-	11
Great Blue Heron	10	59	137	18	91	66	22	56	30	19	54	10	17
Great Egret	-	-	-	-	-	-	-	-	-	-	-	-	-
Blk-crown. Night-Heron	-	-	-	-	-	-	-	-	-	-	7	-	-
Tundra Swan	-	-	-	-	1	-	-	-	-	-	-	-	-
Mute Swan	-	5	-	-	-	-	-	-	-	-	-	-	-
G. White-front. Goose	-	-	476	-	-	-	-	-	-	-	-	-	-
Snow Goose (blue)	-	-	-	-	-	-	-	-	-	-	-	-	-
Snow Goose (white)	-	-	-	-	-	-	-	-	-	-	-	-	-
Snow Goose (unspecified)	-	376	-	-	-	-	-	3	15	-	-	-	-
Canada Goose	36	174	1383	19	125	4360	170	469	183	73	435	300	104
Wood Duck	26	26	8	11	14	8	-	26	31	-	21	25	-
Green-winged Teal	-	3	12	2	-	4	-	47	-	1	2	-	-
American Black Duck	-	-	31	-	-	142	5	40	-	12	-	1	-
Mallard	53	465	115164	28	7	1074	49	1259	169	65	369	30	58
Northern Pintail	-	-	27	-	-	166	-	-	-	-	-	-	-
Blue-winged Teal	-	-	3	-	-	-	-	-	-	-	-	-	-
Northern Shoveler	5	73	16	16	5	11	-	10	-	20	8	7	2
Gadwall	-	159	73	3	47	107	4	1044	-	10	109	10	6
American Wigeon	-	-	26	2	-	148	4	2023	-	-	5	-	-
Canvasback	-	1	2	-	1	1	-	35	-	25	3	-	-
Redhead	-	3	cw	-	-	-	-	-	-	-	1	-	-
Ring-necked Duck	-	116	90	16	12	44	-	3274	1	124	21	-	-
Greater Scaup	-	-	16	-	-	-	-	-	-	-	-	-	-
Lesser Scaup	-	23	1116	-	1	-	-	20	-	46	5	-	-
White-winged Scoter	-	-	cw	-	-	-	-	-	-	-	-	-	-
Common Goldeneye	-	-	3	-	7	-	-	-	-	-	1	-	-
Bufflehead	-	6	61	-	6	-	-	5	-	25	13	-	4
Hooded Merganser	-	32	82	3	-	16	2	69	-	-	3	2	-
Common Merganser	-	-	-	-	-	1	-	-	-	-	-	-	-
Red-breasted Merganser	-	-	32	-	-	-	-	-	-	-	7	1	8
Ruddy Duck	-	26	3534	-	-	-	cw	71	-	18	65	-	9
Duck sp.	-	-	-	-	1	-	4	-	-	-	-	-	-
Black Vulture	84	-	2	38	27	-	67	61	295	59	11	40	-
Turkey Vulture	367	1	2	52	35	14	58	2	71	16	1	-	-
Vulture sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Bald Eagle (total)	-	1	88	-	5	2	-	-	-	-	-	-	-
Bald Eagle (adult)	-	1	47	-	5	1	-	-	-	-	-	-	-
Bald Eagle (imm.)	-	-	41	-	-	1	-	-	-	-	-	-	-
Northern Harrier	-	5	25	5	10	5	8	5	6	4	-	3	-

Warr Cty	Nick Lake	Cook	Clay Cty	Chatt	Hiwas	Knox	Cades Cove	GSM NP	Norris	Green	Eliz	Bris	Roan Mtn	Shady Valley	Total Ind.	# of Cts.
-	2	-	50	43	-	4	-	-	7	-	2	2	-	-	156	10
5	176	1	27	32	83	88	16	-	2	6	14	31	-	-	793	25
-	2	-	114	25	-	2	-	-	-	-	28	6	-	-	262	10
-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1
-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	54	3
-	40	-	-	9	178	36	-	-	-	-	-	1	-	-	2384	11
9	48	18	36	155	143	173	1	2	19	18	9	17	-	5	1242	27
-	-	-	-	-	6	1	-	-	-	-	-	-	-	-	7	2
-	-	-	cw	-	-	11	-	-	-	-	-	-	-	-	18	2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	6	2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	476	1
-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	4	1
-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1
-	-	-	-	1	-	-	-	-	-	3	-	-	-	-	398	5
455	14	374	56	577	250	522	16	-	79	207	141	700	-	143	11365	26
2	3	3	3	27	11	9	21	-	2	5	-	2	-	2	286	22
-	-	cw	-	41	61	41	-	-	1	94	-	1	-	-	310	13
-	3	6	5	5	116	3	3	-	2	52	6	12	-	1	445	18
72	75	118	139	279	3108	269	17	2	66	164	146	648	5	42	123940	28
-	-	-	2	4	59	1	4	-	-	4	-	3	-	-	270	9
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1
31	-	-	22	31	12	12	-	-	-	4	-	-	-	-	285	17
193	843	25	7	216	539	59	4	-	4	113	2	37	-	-	3614	23
-	2	-	1	9	145	-	-	-	-	cw	-	102	-	-	2467	11
1	-	-	-	-	4	-	-	-	-	-	-	-	-	-	73	9
-	-	-	-	-	-	1	-	-	-	-	-	3	-	-	8	4
2	132	cw	91	-	15	20	17	-	56	1	15	81	-	-	4128	19
-	33	-	-	-	-	-	-	-	1	-	-	-	-	-	50	3
-	44	cw	200	9	-	-	-	-	-	-	-	-	-	-	1464	9
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	cw	cw
-	1	-	6	26	4	-	-	-	-	-	-	-	-	-	48	7
2	41	6	17	66	21	3	35	-	6	-	142	215	-	-	674	18
52	20	30	9	66	164	20	2	-	2	-	3	259	9	-	845	20
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	4
6	177	2	1	18	2	3	-	-	2	-	-	1	-	-	3935	15
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	2
-	98	28	8	66	156	70	-	-	18	45	6	11	-	-	1190	20
2	24	80	7	61	56	39	-	3	23	57	9	30	2	8	1020	25
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1
-	2	-	7	9	13	1	-	-	-	-	1	-	-	-	129	10
-	2	-	-	-	7	1	-	-	-	-	-	-	-	-	64	7
-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	48	3
2	3	-	3	-	2	1	-	-	-	7	1	-	-	2	97	18

<i>Species</i>	Fayt Cty	Memp	Reel Lake	Jack	Sav	CC NWR	Buff Riv	May Gray	Clark	Nash	Hick Priest	Murf	Leb
Sharp-shinned Hawk	1	4	2	2	3	3	3	5	2	2	2	-	-
Cooper's Hawk	-	10	2	1	1	2	-	2	3	3	3	11	-
Accipiter sp.	-	-	1	-	-	-	2	-	-	-	-	-	-
Red-shouldered Hawk	6	5	9	13	8	14	5	2	14	1	3	-	1
Red-tailed Hawk	38	79	86	35	22	21	35	23	25	41	22	16	3
Harlan's Red-tailed Hawk	-	1	-	-	-	-	-	-	-	-	-	-	-
Rough-legged Hawk	-	-	1	-	-	-	-	-	-	-	-	-	-
Buteo sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Golden Eagle	-	-	1	-	-	-	-	-	-	-	-	-	-
American Kestrel	25	36	41	29	9	2	59	46	16	15	22	40	11
Merlin	-	-	-	-	2	-	-	-	-	-	3	-	-
Peregrine Falcon	-	1	-	-	-	-	-	-	-	1	-	-	-
Ruffed Grouse	-	-	-	-	-	-	-	-	-	-	-	-	-
Wild Turkey	-	-	cw	-	-	38	54	109	16	1	-	22	120
Northern Bobwhite	-	1	-	7	1	18	22	24	16	9	-	-	-
American Coot	-	35	197	2	306	40	-	537	17	60	453	-	731
Sandhill Crane	-	-	-	-	-	4	-	-	-	-	37	-	-
Killdeer	35	470	876	64	185	14	41	36	47	67	20	13	3
Greater Yellowlegs	-	1	-	cw	-	-	-	-	-	-	-	-	-
Lesser Yellowlegs	-	1	1	-	-	-	-	-	-	-	-	-	-
Western Sandpiper	-	-	1	-	-	-	-	-	-	-	-	-	-
Least Sandpiper	-	170	18	-	-	-	-	-	-	-	-	-	-
Dunlin	-	-	15	-	-	-	-	-	-	-	-	-	-
Shorebird sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Common Snipe	3	3	59	37	57	-	5	8	10	-	8	-	-
American Woodcock	-	-	1	-	3	1	1	2	2	-	1	-	-
Franklin's Gull	-	1	-	-	-	-	-	-	-	-	-	-	-
Bonaparte's Gull	-	1	416	-	104	158	-	54	1	-	90	-	30
Ring-billed Gull	-	241	2256	cw	197	1028	-	24	33	1	4816	100	111
Herring Gull	-	-	6	-	4	58	-	-	-	-	6	-	-
Rock Dove	-	1111	61	539	107	16	85	489	219	392	231	100	43
Eurasian Collared-Dove	-	-	3	-	-	-	-	-	-	-	-	1	-
Mourning Dove	66	688	158	733	315	174	73	85	297	233	343	66	37
Barn Owl	1	-	1	-	-	-	-	-	-	-	-	-	-
Eastern Screech-Owl	1	-	1	1	2	1	10	12	-	1	4	1	-
Northern Saw-whet Owl	-	-	-	-	-	-	-	-	-	-	-	-	-
Great Horned Owl	2	5	8	3	2	4	3	2	1	2	4	-	-
Barred Owl	2	3	11	2	3	4	3	2	2	-	2	-	-
Long-eared Owl	-	-	cw	-	-	-	-	-	-	-	-	-	-
Short-eared Owl	-	-	3	-	2	-	-	-	-	-	-	-	-
Common Nighthawk	-	-	cw	-	-	-	-	-	-	-	-	-	-
Rufous Hummingbird	-	-	-	-	-	-	-	-	-	-	-	-	-
Calliope Hummingbird	-	-	-	-	-	-	-	-	-	-	1	-	-
Belted Kingfisher	4	24	11	10	4	8	6	12	17	25	21	6	7
Red-headed Woodpecker	4	5	32	1	5	20	13	5	7	7	2	-	-
Red-bellied Woodpecker	32	155	81	25	43	25	71	21	70	84	16	15	8
Yellow-bellied Sapsucker	5	37	16	4	20	6	18	11	13	27	13	3	7
Downy Woodpecker	18	78	68	32	22	13	44	26	48	80	23	13	10
Hairy Woodpecker	9	10	9	3	4	3	10	5	15	12	3	3	-
Northern Flicker	25	79	90	27	31	28	29	16	38	40	27	10	2

Warr Cty	Nick Lake	Cook	Clay Cty	Chatt	Hiwas	Knox	Cades Cove	GSM NP	Norris	Green	Eliz	Bris	Roan Mtn	Shady Valley	Total Ind.	# of Cts.
-	3	1	1	6	5	6	-	-	1	1	2	3	-	-	58	21
2	1	4	3	5	1	4	-	-	2	7	1	4	-	2	74	22
-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	5	3
-	15	11	9	21	24	5	3	-	13	1	-	2	-	2	187	23
18	30	36	32	42	17	32	4	5	17	25	9	47	5	10	775	28
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
30	6	69	51	11	19	14	1	4	9	44	13	37	3	10	672	28
-	-	cw	-	-	2	-	-	-	-	-	-	-	-	-	7	3
-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	3	3
-	-	-	-	-	-	-	1	2	-	-	2	-	2	2	9	5
2	-	-	cw	21	-	-	16	12	cw	cw	cw	-	-	-	411	11
-	-	15	-	-	cw	-	-	-	-	6	-	1	8	-	128	12
138	8560	3	123	359	128	109	46	-	22	12	10	10	-	-	11898	22
-	-	-	80	2	7348	-	-	-	-	-	-	-	-	-	7471	5
8	58	43	33	91	292	153	50	15	41	74	67	27	1	1	2825	28
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
-	-	-	-	-	cw	-	-	-	-	-	-	-	-	-	188	2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	1
-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1
1	6	1	4	30	84	1	-	3	3	7	4	-	-	-	334	20
1	8	2	1	2	-	-	-	-	-	-	-	-	-	-	25	12
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
-	11	cw	25	316	323	360	-	-	75	-	15	3	-	-	1982	16
24	944	1	219	1624	1193	1600	-	-	6	-	7	344	-	5	14774	21
-	3	-	-	2	2	7	-	-	-	-	-	4	-	-	92	9
76	54	179	46	1348	52	937	2	55	313	166	518	370	35	25	7569	27
-	-	-	-	55	-	-	-	-	-	-	-	-	-	-	59	3
145	138	275	133	365	132	510	69	24	73	416	138	489	9	158	6342	28
-	-	-	-	1	-	-	-	-	-	2	-	-	-	1	6	5
1	8	12	16	8	13	-	10	-	-	5	11	11	1	17	147	22
-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	1
3	9	4	4	5	5	cw	2	-	-	1	5	8	1	3	86	23
-	2	2	2	2	1	3	2	-	1	1	1	-	1	1	53	22
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	cw	cw
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	cw	cw
-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	2	2
-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	1	1
6	20	14	12	24	36	32	4	3	6	11	13	10	4	7	357	28
1	1	9	6	2	6	2	-	-	5	5	-	-	-	-	138	20
10	40	74	40	65	46	107	18	3	74	25	10	19	-	5	1182	27
6	26	15	34	40	29	33	6	8	31	7	11	12	2	3	443	28
2	26	74	52	63	43	73	50	19	36	20	27	29	4	24	1017	28
1	8	10	12	10	7	7	11	2	9	3	7	3	2	4	182	27
5	37	54	41	70	59	66	17	-	34	9	11	13	-	6	864	26





<i>Species</i>	Fayt Cty	Memp	Reel Lake	Jack	Sav	CC NWR	Buff Riv	May Gray	Clark	Nash	Hick Priest	Murf	Leb
Fox Sparrow	4	15	9	19	17	2	17	4	8	15	9	1	1
Song Sparrow	56	356	171	124	99	15	125	89	94	108	71	15	-
Lincoln's Sparrow	-	-	-	1	1	2	-	-	-	-	-	-	-
Swamp Sparrow	17	42	195	78	17	41	13	162	41	17	100	6	-
White-throated Sparrow	223	729	457	261	254	113	336	130	260	341	202	38	11
White-crowned Sparrow	5	114	2	12	7	3	16	26	51	3	12	2	4
Harris' Sparrow	-	1	-	-	-	-	-	-	-	-	-	-	-
Dark-eyed Junco (slate)	54	189	238	81	361	166	289	52	301	157	102	25	40
Sparrow sp.	-	-	-	-	-	-	77	-	-	-	-	-	-
Lapland Longspur	-	-	778	-	2	-	-	-	-	-	-	-	-
Red-winged Blackbird	34495200		7650	5757	405	502	1306	630	158	303	232	100	23
Eastern Meadowlark	76	225	148	108	223	173	239	127	145	29	25	10	3
Rusty Blackbird	10	136	151	2	35	8	3	100	2	-	320	250	-
Brewer's Blackbird	-	-	cw	-	200	-	-	-	-	-	-	-	-
Common Grackle	10	3150	1261	10264	7	165	1255	245	121	1402	2179	-	61
Brown-headed Cowbird	-	140	555	33	200	40	24	240	10	-	84	200	15
Blackbird sp.	-	-	250	-	-	-	1302	-	20	-	-	-	-
Purple Finch	-	-	4	4	4	10	25	18	2	4	1	-	-
House Finch	-	99	105	72	94	23	14	33	180	123	145	49	51
Finch sp.	-	-	-	-	-	-	-	-	-	-	-	-	-
Red Crossbill	-	-	-	-	-	-	-	-	-	-	-	-	-
Pine Siskin	-	-	1	-	5	-	-	1	-	6	-	-	-
American Goldfinch	37	158	90	18	92	80	144	81	141	160	59	43	108
Evening Grosbeak	-	-	-	-	-	-	-	-	-	-	-	-	-
House Sparrow	1	348	177	48	27	-	100	43	122	11	90	100	57
<i>Count Day Species</i>	68	100	117	82	101	86	77	89	78	80	91	61	57
<i>Count Week Species</i>	-	1	6	2	-	-	1	-	-	-	-	-	-
<i>Total Species</i>	68	101	123	84	101	86	78	89	78	80	91	61	57
<i>Total Individuals</i>	2941	512572	158723	63608	7174	10364	10256	20322	7045	10349	53755	13289	21784
<b>EFFORT:</b>													
<i>Participants</i>	9	31	14	6	7	10	14	7	15	37	14	7	10
<i>Parties</i>	4	8	6	4	4	4	6	2	7	9	5	4	-
<i>Party Hours</i>	32.25	90	56	39.5	42.75	48	64	24	60	60.75	48.25	10+	-
<i>Hours on Foot</i>	16	56	14.5	18.5	16.75	8	22.5	4	35	27.5	19.25	-	-
<i>Hours in Car</i>	16.25	34	37.5	21	26	40	41.5	20	25	33.25	28	-	-
<i>Hours in Boat</i>	-	-	4	-	-	-	-	-	-	-	-	-	-
<i>Party Miles</i>	235	179	419	288.5	321.2	250.5	363.5	463	430	289	347	217	-
<i>Miles on Foot</i>	17	78	12	14.5	10.8	12	13	6	27	25.5	18	8	-
<i>Miles by Car</i>	218	101	383	274	310.4	238.5	350.5	457	403	263.5	325	209	-
<i>Miles by Boat</i>	-	-	24	-	-	-	-	-	-	-	-	-	-
<i>Feeder Participants</i>	-	-	-	-	-	2	-	-	7	7	-	8	-
<i>Feeder Parties</i>	-	-	-	-	-	-	-	-	-	4	-	4	-
<i>Feeder Hours</i>	-	-	-	-	-	9	-	-	26	-	-	11.5	-
<i>Hours Owling</i>	1	1	3	1	3.75	2	2.5	1.5	1	-	3.5	-	-
<i>Miles Owling</i>	0.5	1	33	15	26.9	0	27	2	5	-	3	-	-

CW = species was seen during count week (3 days before or after the count but not on count day).

Warr Cty	Nick Lake	Cook	Clay Cty	Chatt	Hiwas	Knox	Cades Cove	GSM NP	Norris	Green	Eliz	Bris	Roan Mtn	Shady Valley	Total Ind.	# of Cts.
1	11	5	4	-	-	1	-	-	-	-	4	12	2	1	162	22
56	193	229	273	378	464	336	158	22	183	148	225	219	84	199	4490	27
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3
-	30	51	16	106	79	22	52	2	3	9	4	4	3	8	1118	26
79	222	175	318	275	499	519	99	13	421	194	253	257	49	42	6770	28
-	5	2	38	-	18	13	-	-	29	70	14	162	-	35	643	23
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
67	77	140	214	64	243	143	172	49	69	24	85	165	43	81	3691	28
-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	79	2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	780	2
-	192	3000	12	270	1358	40	-	-	28	19	-	8	-	77	517304	23
43	22	49	72	85	194	66	2	-	53	136	1	71	-	6	2331	26
-	-	-	-	5	5	-	1	-	-	-	-	-	-	-	1028	14
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200	1
154	1538	24100	8002	26	37	31	-	1	1	-	-	-	4	23	54037	23
-	4	3000	-	1	-	10	-	-	-	2	1	-	-	-	4559	17
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1572	3
-	5	34	16	14	14	18	56	2	28	7	-	24	3	4	297	22
130	35	150	45	109	36	136	29	16	28	75	127	259	10	99	2272	27
-	-	-	-	-	-	-	-	40	-	-	-	-	-	-	40	1
-	-	-	-	-	-	-	1	2	-	-	1	-	-	-	4	3
-	16	1	-	-	-	-	278	58	1	4	1	-	-	-	372	11
152	195	283	220	239	275	148	178	61	162	133	179	217	45	294	3992	28
-	-	-	-	-	-	-	3	15	-	-	2	-	-	-	20	3
8	68	75	55	65	35	24	2	4	55	6	34	66	69	29	1719	27
63	94	79	87	100	94	94	67	53	77	81	76	82	45	66	152	
-	-	6	2	1	2	1	-	-	1	2	1	-	1	-	4	
63	94	85	89	101	96	95	67	53	78	83	77	82	46	66	156	
3567	18257	38561	16473	19931	26066	16486	2944	1088	5510	5776	4907	10981	667	3251	1066647	
4	15	20	13	29	24	39	6	14	18	20	13	17	5	7	416	
2	5	8	6	12	8	16	4	8	8	8	5	6	2	4	161	
19	56.25	70.5	58.75	95.5	65	100.25	38.25	46.5	49	44.5	43	52.5	15.5	32.25	1320	
2.5	34.75	20.75	13.75	51.5	37	63.5	25	35.5	35.5	20	-	25.5	-	11.5	598.75	
16.5	21.5	49.75	39	43.5	18	36.75	13.25	11	13.5	21.5	-	27	-	20.75	638.25	
-	-	-	6	0.5	11	-	-	-	-	3	-	-	-	-	24.5	
159	328	448.5	365	528.6	277	417	187.5	155	233	303	276	408	68	219	7940.3	
2	20	13.5	6.5	33.3	19	43.5	29	45	23	9	-	15	-	10.5	494.1	
157	308	435	342.5	494.8	259	373.5	158.5	110	210	291	-	393	-	208.5	7055.7	
-	-	-	16	0.5	17	-	-	-	-	3	-	-	-	-	60.5	
-	-	1	-	-	-	-	-	-	2	1	-	-	-	-	28	
-	-	1	-	-	-	2	-	-	-	1	-	-	-	-	12	
-	-	1	-	-	-	7	-	-	1	8.5	-	-	-	-	64	
2	5.75	4.25	5	10	5	0.75	1.25	-	1	4	2	8.5	1	5	74.75	
0	62	30.5	41	77.1	39	0.5	10	-	1	0.5	10	92	2	37.5	516	

## INFORMATION ON THE COUNTS

BRISTOL (36°35' N, 82°06'W): 26 Dec. 1999; 0500-1745. Weather: wind S 0-20 mph; temp. 14-44 °F; cloudy; still water partially frozen, moving water open. Seventeen observers in 6 parties covered 408 miles in 52.5 hours, plus 8.5 hours and 92 miles owling. 82 species; 14,751 individuals. Participants: Rob Biller, Ron Carrico, Wallace Coffey; Bert, Ken, and Loraine Hale; Andy Jones, Rick Knight, Geoff Larsen, Richard Lewis (compiler: 407 V.I. Ranch Road, Bristol, TN 37620), Amanda and Janice Martin, Audrey Mayer, Tony Messina, Bob Quillen, John Shumate, and Dave Worley. Northern Saw-whet Owl was the bird of the count. Other highlights included Eared Grebe, Double-crested Cormorant, Snow Goose, and Black-capped Chickadee. Notably high counts were recorded for Hooded Merganser, Canada Goose, American Wigeon, Red-tailed Hawk, and White-crowned Sparrow.

BUFFALO RIVER (35°18' N, 87°28'W): 27 Dec. 1999; 0630-1700. Weather: wind NW 0-10 mph; temp. 26-44 °F; clear a.m., partly cloudy in afternoon; open water. Fourteen observers in 6 parties put in 64 party hours and covered 363.5 party miles, plus 2.5 hours and 27 miles owling. 77 species plus 1 count week; 10,256 individuals. Participants: Michael Beuerlein, Connie Holman, Billy Ingalls, Chester and Dorothy McConnell, Royce Neidert, Jane Newell, Carole Owen, Ann and Mike Sanders, Donette Sellers, Don Simbeck (compiler: 424 Riddle Lane, Loretto, TN 38469), Morris Williams, and Buford Worn. Highlights were Double-crested Cormorant and Ruddy Duck.

CADES COVE (35°36' N, 83°50'W): 31 Dec. 1999; 0730-1815. Weather: wind SW 10 mph; temp. 39-62 °F; cloudy a.m., partly cloudy in afternoon. Six observers in 4 parties put in 38.25 party hours and covered 187.5 party miles, plus 1.25 hours and 10 miles owling. 67 species; 2,944 individuals. Participants: Susan Hoyle (compiler: P.O. Box 8421, Knoxville, TN 37996), Kristine Johnson, Martha Rudolph, Barbara and Steve Stedman, and David Trently. This was the first year for the Cades Cove count. Good numbers of winter finches were found, especially Purple Finch and Pine Siskin. Highlights were Blue-headed Vireo, Rusty Blackbird, and Red Crossbill.

CHATTANOOGA (35°06' N, 85°14'W): 18 Dec. 1999; 0730-1730. Weather: wind var. 0-8 mph; temp. 31-57 °F; open water; no snow; partly cloudy, light rain in afternoon. Twenty-nine observers in 12 parties put in 95.5 party hours and covered 529 party miles, plus 10 hours and 77 miles owling. 100 species plus one count week; 19,931 individuals. Participants: David Aborn, Alice Benton, Cathy Breeden, Kevin Calhoon, Janice Chadwell, Danny Gaddy, Bill Haley, Dennis Harris, Ron Heffner, John Henderson (compiler: 7323 Fairington Circle, Hixson, TN 37343), Dan Jacobson, Al Jenkins, Bonnie and Dawn Johnson, Starr Klein, Jonnie Sue Lyons, Barbara and Mike McMahan, Judy Newsome, Tom Patton, Debbie and Roi Shannon, David Vogt; Blake, Cynthia, and Jimmy Wilkerson; Dan Williams, Hayden Wilson, and Libby Wolfe. Highlights included American White Pelican, Snow Goose, Sandhill Crane, Wild Turkey, Barn Owl, Rufous Hummingbird, House and Marsh Wren, Gray Catbird, Orange-crowned Warbler, a count week Indigo Bunting, and high numbers of

Ruddy Ducks, Eurasian Collared-Doves, Winter Wrens, and American Pipits. Details provided on American White Pelican.

CLARKSVILLE (36°30' N, 87°22'W): 18 Dec. 1999; 0700-1700. Weather: wind calm; temp. 37-54 °F; open water; clear morning, partly cloudy afternoon. Fifteen observers hit the field in 7 parties tallying 60 party hours and 430 party miles. Seven observers logged 26 feeder hours, and 1 hour and 5 miles were expended owling. 78 species; 7,045 individuals. Participants: Jo Amans-Hamill, Amy Atkins, Suva Bastin, Alan Bottomlee, Daniel Britt, Angelo Buffalino, Brian Canada, Kevin Fitch, Joe Hall, Debbie (compiler: 290 Ardmoor Dr., Clarksville, TN 37043-5851) and Steve Hamilton, Annie Heilman, Rebecca Houtman, Gloria and William Milliken, Helena Minniehan, Evelyn Nixon, Louise Podell, Joe Schiller, Mary Stephens, Ellen Walker, and Barbara Wilbur. Highlights included Snow Goose, Bonaparte's Gull, American Tree and Chipping Sparrow, Rusty Blackbird, and Purple Finch.

CLAY COUNTY (36°30' N, 85°22'W): 22 Dec. 1999; 0445-1645. Weather: wind 0-5 mph; temp. 20-43 °F; open water; no snow; clear skies. Thirteen observers in six parties put in 59 party hours and covered 365 party miles, plus 5 hours and 41 miles owling. 87 species plus two count week; 16,473 individuals. Participants: Steve Arms, Andrew and Terry Campbell (compiler: 101 Resource Dr., Celina, TN 38551), Andrew Curry, Roseanna Denton, Debra Ettien, David and Robbie Hassler, Arlene Morton, Mike Sanders, Barbara and Steve Stedman, and Winston Walden. Highlights included Sandhill Crane, Loggerhead Shrike, count week Black-crowned Night-Heron and Wild Turkey, and high numbers of Common Loons and Horned Grebes. This was the first year for the Clay County count.

COOKEVILLE (36°09' N, 85°28'W): 18 Dec. 1999; 0415-1645. Weather: wind SSW 0-10 mph; temp. 35-52 °F; sky partly cloudy, no precipitation. Twenty observers in 8 parties put in 70.5 hours and 448.5 party miles, plus 4.25 hours and 30.5 miles owling. 79 species plus 6 count week; 38,561 individuals. Participants: Sharon and Wally Brines, Frank Bulow, Terry Campbell, Daniel Combs, Ginger Ensor, Drew Fedak, Joyce Frye, Louann Gum, Janet Liu, Deb Mignogno, Kenneth Morgan, Michael O'Rourke, Lynda Perry, Jeanne Schmitzer, Richard Simmers, Barbara and Stephen Stedman (compiler: 2675 Lakeland Dr., Cookeville, TN 38506), Catherine and Winston Walden, and Carol Williams. Notes: This marked the 37th annual Cookeville count. Merlin (count week) and Common Yellowthroat were new to the count, bringing the all-time Cookeville CBC species total to 123. Twenty-two species were found in record high numbers for the count with 9 in record high numbers for the Putnam County. Details were provided for the Common Yellowthroat.

CROSS CREEKS N.W.R. (36°28' N, 87°45'W): 30 Dec. 1999; 0615-1530. Weather: wind calm; temp. 35-64 °F; sky clear; open water. Ten observers in 4 parties were in the field for 48 hours and 250.5 party miles, plus 2 and 9 hours owling and feeder-watching, respectively. 86 species; 10,364 individuals. Participants: Margarette Blanton, Don Blunk, Joe and Shirley Casey, Blake Hunt, Madge LaWrence, Bill and Joyce North, Brandon Parker, and Sarah Welker (compiler: Cross Creeks NWR, 643 Wildlife Rd., Dover TN 37058). The count of 86 species was 3 higher than 1998 and

substantially higher than the 69 species recorded for 1997. Notable species included Common Merganser, Bald Eagle, Bonaparte's Gull, Sandhill Crane, Horned Lark, Loggerhead Shrike, Lincoln's Sparrow, Rusty Blackbird, and Purple Finch.

ELIZABETHTON (36°20' N, 82°08'W): 18 Dec. 1999; 0600-1730. Weather: wind light and variable; temp. 24-56 °F; sky partly cloudy to mostly cloudy. Thirteen observers in 5 parties put in 43 party hours and 276 party miles, plus 2 hours and 10 miles of owling. 76 species plus one count week; 4,907 individuals. Participants: Fred Alsop, Rob Biller, Wallace Coffey, Gilbert Derouen, Reece Jamerson, Rick Knight (compiler: 804 N. Hills Dr., Johnson City, TN 37604), Howard Langridge, Joe McGuiness, Tony Messina, Jerry Nagel, Bryan Stevens, Gary Wallace, and Frank Ward. This was the 57<sup>th</sup> Elizabethton CBC. Highlights included Bald Eagle, Ruffed Grouse, Common Raven, Blue-headed Vireo, Palm Warbler, Red Crossbill, Pine Siskin, and Evening Grosbeak. Only one Eastern Meadowlark was observed, and no Northern Bobwhite, Loggerhead Shrike, or Purple Finch. Details provided for Blue-headed Vireo and Palm Warbler.

FAYETTE COUNTY (35°06' N, 90°35' W): 2 Jan. 2000; 0630-1645. Weather: wind SW 12-30 mph; temp. 50-74 °F; sky cloudy; open water. Nine observers in 4 parties were in the field for 32.25 party hours and 235 party miles, plus 0.5 mile and one hour owling. 68 species; 2,941 individuals. Participants: Carolyn Bullock, Van Harris, Jo Pascual, Rob Peeples, Virginia Reynolds, Martha Waldron, Richard Whittington (compiler: 338 Williamsburg Ln, Memphis, TN 38117) and John and Linda Zempel. Species highlights included Barn Owl, Red-breasted Nuthatch, Sedge and Marsh Wrens, and Vesper Sparrow. This was the third year for the Fayette County count.

GREENEVILLE: 27 Dec. 1999; 0700-1800. Weather: wind light variable a.m., N 5 mph p.m.; temp. 24-42 °F; sky mostly cloudy. Water open. Twenty observers in 8 parties covered 303 party miles in 44.5 party hours by car, foot, and boat, plus 8.5 hours feeder-watching and 4 hours and 0.5 miles owling. 81 species plus 2 count week; 5776 individuals. Participants: Jennifer Arnold, Orland and Phine Britton, Bill and Patricia Foland, King and Margaret Gaut, Barbara and Don Holt, Jim Holt (compiler: 311 Colonial Circle, Greeneville, TN 37745), Reece Jamerson, Rick Knight, Ron and Rose Lapp, Don Miller, Richard and Willie Ruth Nevius, Helen Reed, Allen and David Trently, and Virginia Williams. The 81 species recorded count day was a record high for the Greeneville count, eclipsing the old record by 5. Black-capped Chickadee was new for the count. Notable sightings included Snow Goose, 94 Green-winged Teal, Peregrine Falcon, Barn Owl, American Pipit, and Pine Siskin. Both kinglets were found in above average numbers while Fox Sparrow was missed.

GREAT SMOKY MOUNTAINS N.P. (35°43' N, 83°29'W): 26 Dec. 1999; 0730-1700. Weather: wind 0-20 mph; temp. 18-48 °F; clear skies; snow 0-2". Fourteen birders in 8 parties covered 155 party miles in 46.5 party hours. 53 species; 1088 individuals. Participants: Ava Alcaez, Richard Davis, Jerry Hadder, Paul Hartigan; Ben, Dan, and Laurie Mooney; Marie Oakes, Boyd Sharp, Bob and Diane Steffy, Glenn Taylor, Allan Trently, and David Trently (compiler: 1029 Morrow Dr., Knoxville, TN, 37923-

1725). Species count was up 5 from last year. Common Grackle was seen on the count for the first time in over 10 years. Highlights included Common Raven and Palm Warbler.

HICKORY-PRIEST (36°12' N, 86°40'W): 1 Jan. 2000; 0430-1700. Weather: wind calm; temp. 35-55 °F; cloudy morning followed by partly cloudy afternoon; water open. Fourteen observers in 4-5 parties logged 48.25 party hours and 347 party miles, including 1 hour and 4 miles by golf cart, plus 3 miles and 3.5 hours of owling. 91 species; 53,755 individuals. Participants: Gary Casey, Phillip Casteel, Richard Connors, Beth Creighton, Jerry Drewry, Mark Hackney, Jim and Sharon Hielt, Cass Kennedy, Wanda Shotwell, Chris Sloan (compiler: 512 Old Hickory Blvd, Apt. 1203, Nashville, TN 37209), Sabin Thompson, Rita Venable, and John Walton. Highlights included Sandhill Crane, Merlin, Calliope Hummingbird for the 3<sup>rd</sup> consecutive year, Red-headed Woodpecker, Red-breasted Nuthatch, Chipping Sparrow, and Purple Finch.

HIWASSEE (35°22' N, 84°54'W): 1 Jan. 2000; 0630-1800. Weather: temp. 44-60 °F; foggy with light rain in the morning, partly cloudy in afternoon. Twenty-four observers in 8 parties combined for 65 party hours (plus 5 owling) and 295 party miles (plus 39 owling) by foot, car, and boat. 94 species plus two count week; 26,066 individuals. Participants: Nelson Bennett, Mary Lynn Buttram, Kevin Calhoon (compiler: 1185 Mountain Creek Rd., Apt. 715, Chattanooga, TN 37405), David Chaffin, Jenni Frankenberg, Danny Gaddy, Reid Gerhardt, Bill Haley, John Henderson, Bonnie Johnson, Tanya Jordan, Laura Mitchell, Judy Newsome, Debbie and Roi Shannon, Boyd Sharp, Carl Swofford, David Trently, John Upchurch, Rick Waldrop, Chris Welsh, Jim Wilkerson, Hayden Wilson, and Libby Wolfe. Ninety-six species was below average for the Hiwassee count. Highlights included Great Egret, Merlin, and Marsh and Sedge Wrens. Sandhill Cranes were found in record high numbers. White-crowned Sparrow, Loggerhead Shrike, and Vesper Sparrow were present in above average numbers while Common Loon, Horned Grebe, Dunlin, American Woodcock, Fox Sparrow, and Brown-headed Cowbird were missed.

JACKSON (35°37' N, 88°49'W): 1 Jan. 2000; 0630-1730. Weather: wind W 5-10 mph; temp. 48-66 °F; cloudy morning, partly cloudy in afternoon. Six observers took the field in 4 parties putting in 39.5 party hours and covering 288.5 party miles. 82 species (plus 2 count week); 63,608 individuals. Participants: Carla Dailey, Bob Ford, Clay Gascoigne, Mark Greene (compiler: 2881 Central Ave., Humboldt, TN 38343), Rick Light, and David Nailling. Eighty-two species on count day ties the all-time record for the Jackson count. Highlights included Fish Crow, Pine Warbler, American Tree Sparrow, Lincoln's Sparrow, and Rusty Blackbird. Chipping Sparrow was missed for the first time since 1991, and numbers of Red-headed Woodpecker, Loggerhead Shrike, Brown Thrasher, and Hermit Thrush numbers were all down. A count week Greater Yellowlegs was a first for the count.

KINGSPORT: Not conducted this year.

KNOXVILLE (35°55' N, 84°05'W): 2 Jan. 2000. Weather: light wind in morning, in afternoon, moderately windy with gusts SW to 20 mph; temp. 35-69 °F; clear morning with patchy dense fog around waterways, becoming overcast in afternoon. Thirty-nine observers in 15-16 parties birded 100.25 hours and covered 417 miles. 94 species, plus one count week; 16,486 individuals. Participants: Ava Alcaez, Jean Alexander, Jane Beintema, Jim and Ruth Brockelman, Marcia Davis, Dean Edwards (compiler: 8537 Carl Valentine Circle, Knoxville TN 37931), Dewel and Muriel Edwards, Barbara Finney, Chris Foelli, Reid Gerhart, Melissa Halpern, Tony Headrick, Ron Hoff, David Howell, Susan Hoyle, David Johnson, Kristine Johnson, Dev Joslin, Janet McKnight; Ben, Dan, and Laurie Mooney; Dollyann Myers, Chuck Nicholson, Holly Overton, Martha Rudolph, Debbie Searfoss, Boyd Sharp, Bob Steffy, Jean and Willy Stierberger, Christine and Roger Tankersley, David Trently, June Welch, Chris Welsh, and Corky Witt. Near record warm weather and increased participation helped boost the count day species count up 10 from last two years. The total of 94 species broke the old Knoxville count record of 91 set in 1995. Rufous Hummingbird, Cape May Warbler, and Mute Swan (subject to review) were all new for the count. The Rufous Hummingbird was originally banded in New Orleans, LA in 1996. Fourteen species were recorded in record numbers, most notably Green-winged Teal (41 vs 24), Double-crested Cormorant (36 vs 18), Black Vulture (70 vs 11), and Bonaparte's Gull (360 vs 97). Unusual species included Great Egret, Snow Goose, Ruddy Duck, Redhead, and Horned Lark. Red-winged Blackbirds and Common Grackles were found in lower than usual numbers. Big misses included American Wigeon, Lesser Scaup, Northern Bobwhite, and Eastern Screech-Owl.

LEBANON (John Sellars Chapter): 1 Jan. 2000. Weather: wind calm a.m., becoming more brisk p.m.; temp. 40-47°F; sky cloudy with slight shower p.m. Ten observers covered the Trice Rd, Boxwell, LaGuardo area. 57 species; 21,784 individuals. Participants: Earline and Charles Berry, Frank Crawford, Kay Norris, Grace Speck, Sarah Thompson, Roy and Melissa Turrentine (compiler: 339 Rippy Ridge Rd, Normandy, TN 37360), and Jeri and Dean Walker. Highlights included Horned Grebe, Ruddy Duck, Red-shouldered Hawk, 120 Wild Turkeys, and a large flock of robins (conservatively estimated at 19,000+).

MAYFIELD-GRAY (formerly COLUMBIA, 35 36' N, 87 10'W): 18 Dec. 1999. Weather: wind S 0-2 mph; temp. 45-65 °F; open water; partly cloudy morning, clear in the afternoon. Seven observers in 1-2 parties totaled 24 party hours and 463 party miles, plus 1.5 hours and 2 miles owling. 89 species; 20,322 individuals. Participants: Bobby and Janet Brown, Tommy Edwards (compiler: 896 Iron Bridge Rd, Columbia, TN 38401), William Jernigan, Allyn Lay, Bedford Lochridge, and Mark Mayfield. Species count matched last year. Notable sightings on this year's count included Snow geese, American Pipit, and Pine Siskin. Waterfowl concentrations were above average with above average numbers of Gadwall, American Wigeon, Mallard, and Ring-necked Duck. Other species with relatively high numbers were Bonaparte's and Ring-billed Gulls, Horned Lark, Savannah Sparrow, Rusty Blackbird, and Purple Finch.

MEMPHIS (35°09' N, 89°56'W): 19 Dec. 1999; 0500-1700. Weather: wind SE 5-12 mph; temp. 44-58 °F; sky cloudy; open water. Thirty-one observers took to the field in 5-8 parties covering 179 miles in 90 party hours. Plus one mile and one hour owling. 100 species plus one unusual form and 1 count week; 512,572 individuals. Participants: Charles Askew, David Blaylock, Bob Browne, Carolyn Bullock, Theresa Cross, Jim and Sue Ferguson, Bob Ford, Kate Gooch, Van Harris, Martha Heinemann, Bob and Ginger Ilardi, Margaret Jefferson, Jo Kee, Keith Kunkel, Jo Levy, Selma Lewis, Charles McCrary, Rick McMann, Mac and Susan McWhirter, Jo Pascual, George and Jeanne Payne, Rob Peebles, Dick Preston, Brent Tucker, Martha Waldron (compiler: 1626 Yorkshire Dr., Memphis, TN 38119), Linda Zempel, and Gary Zentisky. This was the 72nd continuous count conducted by members of the Memphis Chapter of the Tennessee Ornithological Society. Notable species included American White Pelican, Mute Swan, Franklin's Gull, Gray Catbird, count week Blue-headed Vireo, Orange-crowned Warbler, and LeConte's and Harris' Sparrow. One Canada Goose was reported to be a small race bird. Double-crested Cormorant was one of seven species found in higher than usual numbers.

MURFREESBORO: 1 Jan. 2000. Weather: temp. 48-64 °F. Seven observers in 4 parties were in the field more than 10 party hours and covered 217 party miles. Eight feeder watchers in four parties observed for an additional 11.5 hours. 61 species; 13,289 individuals. Participants: Dr. and Mrs. Robert Hornsby, Richard Hunter and Wilma Hunter (compiler: 3659 Wilson Overall Rd, Murfreesboro, TN 37127-7598), Larry and Mary Edith McFarlin, Ruth and Gene Odom, Pat and Robert Sanders, Ferrel and Jean Wilson, and Terry Witt. Species of note: Red-breasted Merganser, Wild Turkey, Eurasian Collared-Dove, Loggerhead Shrike, Fox and White-crowned Sparrows, and Rusty Blackbird. The extra effort and better weather paid off with 17 more species observed this year compared to last year's 44.

NASHVILLE (36°03' N, 86°56'W): 18 Dec. 1999; 0700-1600. Weather: no wind; temp. 35-57 °F; sky, partly cloudy. Thirty-seven observers in 9 parties spent 61 party hours in the field, covering 289 party miles. In addition 7 people counted at 4 feeders. 80 species; 10,349 individuals. Participants: Sue Ansley, Paul Bagguley, Sandy Bivins, Rob Brown, Jean Buchanan, Drake Carlton, Eileen Cartwright, Gary Casey, Phillip Casteel, Richard Connors, Camille Crenshaw, Carrie Dortch, Debbie Dreeves, Frank Fekel, Bill and Lucy Finch, Tarcila Fox, John Froeschauer, Ed Gleaves, Linda Kelly, Cass Kennedy, George and Margie Koehler, Cynthia and John Lancaster, Alan Leiserson, Sue Marden, Jane Maynard, Gail Miller, Bob Meyer, Elizabeth O'Connor, Manomohan Pattanayek, Robert Rich, Jan Rinker, Polly Rooker, Ann Scarfe, Kathy and Jan Shaw (compiler: 5019 Timberhill Dr., Nashville, TN 37211-4333), Dee Thompson, Rita Venable, Cless Vinson, Helen and Marshall Wright, and Mary Zimmerman. Eighty species was about normal for this count. Peregrine Falcon and Eastern Wood-Pewee were first timers for the Nashville count. Green-winged Teal was found for the second time. Northern Shoveler, Ruby-crowned Kinglet, Yellow-rumped Warbler, and Fox Sparrow were found in above average numbers. American Kestrel numbers were low, and no Brown-headed Cowbirds were observed.

Unusual bird report forms were submitted for Green-winged Teal, Peregrine Falcon, Eastern Wood-Pewee, and Chipping Sparrow.

NICKAJACK LAKE (35°04' N, 85°31'W): 31 Dec 1999; 0430-1730. Weather: wind variable 0-5 mph; temp. 35-68 °F; partly cloudy morning, clearing in afternoon. Fifteen observers in 5 parties spent 56 party hours traversing 328 party miles, plus 5.75 hours and 62 miles owling. 94 species; 18,257 individuals. Participants: Danny Gaddy, Bill Haley, John Henderson, Jerry Ingles, Barbara and Mike McMahan, Marty Paige, Johnny Parks (compiler: 164 McDonald Dr., Ringgold, GA 30736-7213), Debbie and Roi Shannon, Chris Sloan, Keith Snyder, David Vogt, and Cynthia and Jim Wilkerson. This was the 15th annual count for Nickajack Lake. Highlights were Brown-headed Nuthatch, Blue-headed Vireo, and Pine, Palm, and Orange-crowned Warblers. Brown-headed Cowbirds were found in record numbers in 1998, missed in Jan 1999, and only 4 were observed this count. Details were provided for the Orange-crowned Warbler and both Blue-headed Vireos.

NORRIS (36°13' N, 84°05'W): 18 Dec. 1999; 0630-1615. Weather: wind W 0-5 mph; temp. 30-55 °F; sky clear in morning, partly cloudy afternoon; open water. Eighteen observers in 8 parties birded 49 party hours covering 233 party miles, plus 1 hour and 1 mile of owling. Two observers watched for birds at feeders for an hour. 77 species, plus one count week; 5,510 individuals. Participants: Ellen Bean, Dean Edwards, Grace Foster, David Hankins, Tony Headrick, Susan Hoyle, Kristine Johnson, Dev Joslin; Ben, Dan, and Laurie Mooney; Jimi and Nell Moore, Charles Nicholson (compiler: Box 402, Norris, TN 37828), Laurie Pearl, Martha Rudolph, Boyd Sharp, and David Trently. Seventy-seven species on count day was a record high for the count, exceeding the old high by 4 species. Greater Scaup and Common Yellowthroat were new for the count. Other highlights included American Pipit (only 3<sup>rd</sup> record for the count) and Pine Siskin. Common Loon, Ring-necked Duck, Turkey Vulture, Bonaparte's Gull, Red-bellied Woodpecker, Yellow-bellied Sapsucker, White-breasted Nuthatch, Brown Creeper, and Savannah Sparrow were found in record high numbers. Purple Finch numbers were the highest since 1987.

REELFOOT LAKE (36°25' N, 89°23'W): 18 Dec. 1999; 0600-1730. Weather: wind N 15-20 mph; temp. 31-46 °F; partly cloudy; open water. Fourteen observers took the field in 5-6 parties, covering 419 party miles in 56 party hours, plus 3 hours and 33 miles owling. 117 species plus 6 count week; 158,723 individuals. Participants: Jerry Drewry, Bob Foehring, Mark Greene (compiler: 2881 Central Ave., Humboldt, TN 38343), Joe Guinn, Trent Marcus, Nancy Moore, John Noel, David Sams, Chris Sloan, Betty Sumara, Sabin Thompson, Melinda Welton, Jeff Wilson, and Linda Zempel. Species count was a new count and Tennessee CBC record. Eurasian collared-Dove and Western Sandpiper were new species for the Reelfoot count. Other highlights included American White Pelican, 1875 cormorants, Greater Scaup, count week White-winged Scoter and Redhead, 88 Bald Eagles, Rough-legged Hawk, Golden Eagle, Lesser Yellowlegs, Least Sandpiper, Dunlin, Barn and Short-eared Owls; count week Long-eared Owl and Common Nighthawk, Fish Crow, Red-breasted Nuthatch, House and Marsh Wrens, Gray Catbird, Orange-crowned War-

bler, American Tree and LeConte's Sparrow, and many Lapland Longspurs. Details provided on American White Pelican, White-winged Scoter, Lesser Yellowlegs, Western Sandpiper, Dunlin, Rough-legged Hawk, Long-eared Owl, Common Nighthawk, Gray Catbird, LeConte's Sparrow

ROAN MOUNTAIN (36°06' N, 82°07'W): 19 Dec. 1999; 0615-1500. Weather: wind E, gusty, 15-30+ mph; temp. 27-50 °F; sky cloudy. Five observers in 2 parties covered 68 party miles in 15.5 party hours and put in 1 hours and 2 miles owling. 45 species plus one count week; 667 individuals. Participants: Fred Alsop, Rick Knight (804 N. Hills Dr., Johnson City, TN 37604), Larry McDaniel, Tony Messina, and Allen Trently. This was the 47<sup>th</sup> Roan Mountain CBC. Northern Bobwhite was new for the count. Other highlights included Ruffed Grouse, 3 owl species, and Fox Sparrow. Number of individuals observed was less than half that in 1998. No boreal finches were found. Windy conditions on top of Roan Mountain hampered observations.

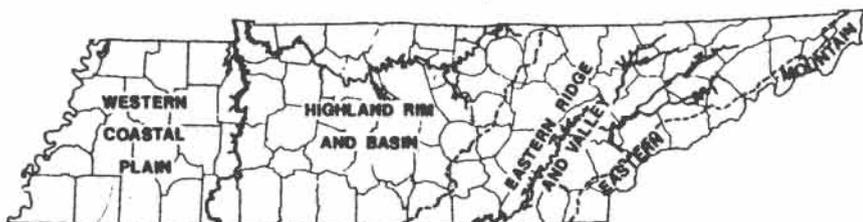
SAVANNAH (35°08' N, 88°09'W): 28 Dec. 1999; 0400-1730. Weather: wind W 10-30 mph; temp. 28-46 °F; sky partly cloudy to clear. Seven observers in 4 parties put in 42.75 party hours and 321.2 party miles, plus 3.75 hours and 26.9 miles owling. 101 species; 7,174 individuals. Participants: Moez Ali, Dwight Cooley, Jeff Garner, Francis and Gary Markine, Steve McConnell, and Damien Simbeck (compiler: 4905 County Rd. 33, Killen, AL 35645). Tundra Swan was new for the count. Other highlights included Canvasback, Lesser Scaup, Bald Eagle, Merlin, Short-eared Owl, Brown-headed Nuthatch, House Wren, Palm Warbler, Lincoln's and LeConte's Sparrows, and Lapland Longspur. Record high numbers were observed for Wood Duck, Common Snipe, and Pine Warbler. Northern Bobwhite, four sparrows (Field, Savannah, Song, and Swamp), and Common Grackle were found in below average numbers. Habitat loss at Gooch Rd. Marsh contributed to missing Sedge Wren (first miss since 1990) and Marsh Wren (first miss since 1993). Details were provided for Tundra Swan, Merlin, House Wren, Lincoln's Sparrow, Lapland Longspur, and Palm Warbler.

SHADY VALLEY (36°30' N, 81°51'W): 2 Jan. 2000; 0445-1800. Weather: wind calm; temp. 42-64; sky clear; still water partly frozen. Seven observers in 4 parties birded 32.25 party hours covering 219 party miles, plus 37.5 miles and 5 hours owling. 66 species; 3,251 individuals. Participants: Rob Biller, Ron Carrico, Wallace Coffey, Ken Hale, Rick Knight, and Lorrie and John (compiler: 156 Meadowlark Ln, Shady Valley, TN 37688) Shumate. Species count was up 5 from 1998 and 13 from 1997. Highlights included Ruffed Grouse, Barn Owl, House Wren, and Vesper Sparrow.

WARREN COUNTY (35°40' N, 85°46'W): 18 Dec. 1999; 0530-1545. Weather: wind calm; temp. 38-51 °F; sky partly cloudy a.m., cloudy p.m.; open water. Four observers in 2 parties put in 19 party hours and 159 party miles plus 2 hours owling. 63 species; 3,567 individuals. Participants: Crystal Littleton, Clyde Malone, Donna Milstead, and Mickey Ware. Compiler: James Pearsall, 131 Beech Hill Dr., McMinnville, TN 37110. Notable species include Canvasback, Brown Thrasher, and Fox Sparrow.

## THE SEASON

RICHARD L. KNIGHT, Editor



FALL: 1 AUGUST - 30 NOVEMBER 1999

This autumn was mild and dry. Temperatures generally registered normal over the first half to slightly above normal in the latter half. Rainfall, on the other hand, was below normal, with drought conditions prevailing in some areas.

Based on the number of reports received and the variety of species detailed in the regional summaries, this was a good migration season. Two extremely rare species were found in opposite ends of the state: a Limpkin at Hatchie NWR (first seen in late July) and a Yellow-billed Loon on Watauga Lake. Both were second state records, pending action of the Tennessee Bird Records Committee. An intriguing report of a large dark hummingbird came from Fayette County. It was thought to be a Green Violet-Ear, which is, as yet, unrecorded in the state. Other notable rarities included Ross' Goose, Swallow-tailed Kite, Yellow Rail, and Western Kingbird.

Waterfowl numbers were less than expected in many areas. Mild conditions and open water to the north apparently encouraged them to linger there. A good flight of shorebirds was noted. Most passerines seemed to be found in numbers typical of recent years. Boreal finches and Red-breasted Nuthatches appeared in modest numbers across the eastern half of the state.

This report marks the last of 12 compiled by Frank Fekel for the Highland Rim and Basin Region. We welcome Phillip Casteel as the new Regional Season Editor for that region. **Please send future data for the Highland Rim and Basin Region to: Philip Casteel, 2722 Bobby Ave., Nashville, TN 37216 (email: tigerwrblr@aol.com).** Also, Martha Waldron has recently retired as compiler of the Regional Season Editor for the Western Coastal Plain region after 125 reports (approximately 26 years!). **Please send future data for the Western Region to: Rob Peebles, 8205 Meadow Glen Drive, Germantown, TN 38138-6158.**

### Standard Abbreviations

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

WESTERN COASTAL PLAIN REGION — As the summer drought continued, dedicated observers trudged to barren and arid localities in search of avian wild-life. Eighty-three reports and near record species lists were submitted. Twenty-four species of shorebirds and 31 species of warblers were observed throughout West Tennessee. A concentration of over 200 Ruby-throated Hummingbirds were seen at a cluster of feeders in the Memphis area, while another feeder attracted a Rufous Hummingbird to Tipton County. A large dark hummingbird in Fayette County was thought to be a Green Violet-Ear. A Yellow Rail and a holdover Limpkin captured the interest of many birders. The latter was the second in the state. A lone Western Kingbird and Yellow-headed Blackbird made their way east of the Mississippi River to Memphis and Lauderdale County, respectively.

*Loon - Falcon:* **Common Loon:** 20 Nov (100+) Pace Point (MAG, JRW). **Horned Grebe:** 20 Nov (300+) Pace Point (MAG, JRW). **American White Pelican:** 2 Oct (480) EARTH Complex (MAG, JRW); 19 Oct (300) NW of Open L., Lauderdale Co (Jack Colwick). **American Bittern:** 2 Oct (1) EARTH Complex (MAG, JRW). **Double-crested Cormorant:** 27 Nov (600) EARTH Complex (CHB, VBR). **Greater White-fronted Goose:** 27 Nov (8) Everett L., Dyer Co (MAG). **Northern Shoveler:** 3 Aug (1) Eagle Lake WMA (WRP), early. **Osprey:** 15-26 Sep (1) Shelby Farms (CHB, Jo Levy, Dwight Miller), first sighting at this location; 29 Sep (1) Shelby Forrest SP (MTOS); 20 Oct (1) Hatchie NWR (CHB, SSL, VBR). **Sharp-shinned Hawk/Cooper's Hawk:** 4 and 5 reports in Shelby Co, respectively. **Harlan's Red-tailed Hawk:** 30 Oct/3 Nov (1) Shelby Farms (CHB, VBR, MGW). **Krider's Red-tailed Hawk:** 1 Nov (1) Wolf River WMA (SNM, MGW). **Rough-legged Hawk:** 24 Nov (1 light morph) Jackson Industrial Park, Madison Co (MAG). **Merlin:** 8 Oct (1) Shelby Co (WRP); 27 Nov (1) EARTH Complex (CHB, VBR). **Peregrine Falcon:** 6 Sep/21 Nov (1) Memphis (SNM); 2 Oct (1) EARTH Complex (MAG, JRW).

*Rail - Nighthawk:* **Yellow Rail:** 16 Oct (1) Britton Ford (MAG). **Sora:** 16 Oct (1) Britton Ford (MAG). **LIMPKIN:** 27 Jul - 18 Sep (1) Hatchie NWR (Bob Ford, Alex Wyss et al.). **Black-necked Stilt:** 15 Aug (52) Eagle Lake WMA (WRP, John & Linda Zempel); 6 Sep (1) NW Shelby Co (CHB, VBR, Anne DeCorey). **Solitary Sandpiper:** 9 Aug - 26 Sep (21 max) EARTH Complex (CHB, VBR, MGW). **Willet:** 14 Aug (1) Island 13, Lake Co (MAG, NTOS). **Spotted Sandpiper:** thru 27 Nov (1) EARTH Complex (CHB, VBR). **Sanderling:** 17 Aug (1) EARTH Complex (CHB, VBR, MGW); 20 Nov (1) Pace Point (MAG, NTOS), late. **Western Sandpiper:** 5 Aug/8 Sep (2) Shelby Farms (VBR, WRP); 4 Sep/12 Oct (11/1) EARTH Complex (MAG, MTOS, JRW). **Least Sandpiper:** 18 Aug - 27 Nov (2770 max) EARTH Complex (CHB, VBR, MGW). **Baird's Sandpiper:** 21 Aug (4) Is. 13, Lake Co & 2 Oct (2) EARTH Complex (MAG, JRW). **Short-billed Dowitcher:** 3/5 Aug (1) Eagle Lake WMA (WRP). **Long-billed Dowitcher:** 16 Oct (1) Britton Ford (MAG). **Dowitcher sp:** 20 Oct (1) Shelby Forest SP (DDP). **American Woodcock:** 18 Nov (1) Shelby Farms (Keith Kunkle). **Caspian Tern:** 22 Aug (1) Shelby Farms (WRP). **Forster's Tern:** 19 Aug (4) TVA Pond, Shelby Co (CHB, VBR, MGW); 6 Sep (2) Randolph Landing, Tipton Co (CHB, VBR). **Ruby-throated Hummingbird:** 6 Sep (200+) east Shelby Co (Norman & Patsy

Jester); 7-9 Nov (1) Munford (DDP). **Rufous Hummingbird**: 19 Oct - 23 Nov (1) Drummonds, Tipton Co (Kitty Baker, fide CHB, DDP, WRP, VBR, CAS, Linda Zempel), first for Co. **Hummingbird sp**: 10-11 Oct (1) Oakland, Fayette Co (Theresa Graham), large & all dark, but seen only briefly in poor light, thought to be a Green Violet-Ear. **Common Nighthawk**: 8 Sep (100+)/6 Nov (1) downtown to midtown Memphis, 21 Nov (1) east Memphis (CHB, SNM, MGW, Martha Heinemann).

*Flycatcher - Finch*: **Yellow-bellied Flycatcher**: 2 Oct (1) EARTH Complex (MAG, JRW). **Willow Flycatcher**: 11 Sep (2) Hatchie NWR (MAG, JRW). **Least Flycatcher**: 11 Sep (1) Hatchie NWR & 20 Oct (1) EARTH Complex (MAG, JRW). **Western Kingbird**: 3 Sep (1) Memphis (CHB). **Blue-headed Vireo**: 10 Oct (2) Shelby Farms (CHB, VBR); 15 Oct/1 Nov (2/1) Wolf River WMA (SNM, MGW). **Yellow-throated Vireo**: 17 Sep/6 Oct (5/1) Shelby Forest SP (WRP/MTOS). **Philadelphia Vireo**: 11 Sep (1) Hatchie NWR, 2 Oct (7) Shelby Co (MAG, JRW); 6 Sep/13 Oct (3 max) Shelby Forest SP (MTOS). **Purple Martin**: 14 Aug (huge roost estimated at a HALF MILLION birds) Island 18, Dyer Co (MAG, NTOS), this is about 30 miles south of New Madrid L., Missouri, where a large roost has occurred in other years (fide James Hill). **House Wren**: 10 Sep (1) Shelby Farms (VBR); 20 Oct (2) Hatchie NWR (CHB, SSL, VBR); 23 Oct (1) Memphis (MTOS). **Sedge Wren**: 2 Oct (3) EARTH Complex (MAG, JRW). **Marsh Wren**: 15 Oct/1 Nov (1) Wolf River WMA (SNM, MGW); 20 Oct (2) Hatchie NWR (CHB, SSL, VBR). **Connecticut Warbler**: 29 Aug - 1 Sep (1) Shelby Co (Glen Campbell), early state record. **Mourning Warbler**: 26 Sep/4 Oct (2) Munford (DDP). **Vesper Sparrow**: 24 Nov (10) Wolf River WMA (CHB, Sue Ferguson, SSL, VBR). **LeConte's Sparrow**: 27 Oct (1) Shelby Farms (VBR); 20 Nov (12) Big Sandy Unit, Tenn. NWR, Benton & Henry Cos. (MAG, NTOS). **Lincoln's Sparrow**: 2 Oct (4) EARTH Complex (MAG, JRW); 10 Oct (1) Shelby Farms (CHB, VBR). **Lapland Longspur**: 26 Nov (1) Shelby Farms (WRP). **Yellow-headed Blackbird**: 29 Nov (1 male) Lauderdale WMA, Lauderdale Co (MAG). **Brewer's Blackbird**: 29 Nov (2) Lauderdale WMA (MAG). **Purple Finch**: 19 Oct (1) Munford (DDP).

*Locations*: Britton Ford - in Henry Co; Eagle Lake WMA - in Shelby Co; EARTH Complex - in Shelby Co; Hatchie NWR - in Haywood Co; Munford - in Tipton Co; Pace Point - in Henry Co; Shelby Farms/Shelby Forest SP - in Shelby Co; Wolf River WMA - in Fayette Co.

MARTHA G. WALDRON, 1626 Yorkshire Drive, Memphis, TN 38119.

HIGHLAND RIM AND BASIN REGION — Temperatures in Nashville for the fall season were normal; while precipitation was about 25% below average, with September being the driest month. Even by late August the effects of a cold front on migrating passerines can be impressive, as demonstrated by the report of 14 species of warblers at Radnor Lake on the 31st. During the period there were three sightings each of Cape May and Black-throated Blue Warblers, a significant number since both species are rarely seen in this area in fall. Also of interest was the

saga of Sedge Wrens at Shelby Bottoms. Observers heard the wrens singing and saw birds carrying nest material in mid August. A nest was found on 2 September, but no sign of eggs or young were ever seen. Apparently the birds were simply making a dummy nest, common practice in this species.

The help of Phillip Casteel and Margaret Mann is greatly appreciated. This is my final report as regional compiler. Please send future data to Phillip Casteel.

*Loon - Ibis: Common Loon:* 14 Nov (80+) Center Hill L (SJS). *Pied-billed Grebe:* 9 Sep (23) Radnor L (PDC, FCF, JKS). *Horned Grebe:* 14 Oct (4) Center Hill L (SJS), ers. *Double-crested Cormorant:* 25 Aug (18) Center Hill L (Carol & Don Williams); 31 Aug (12) Cane Cr. Park (SJS); 5 Sep (27) Shelby Bottoms (PDC, JKS); 11 Sep (100+) Gallatin Steam Plant (JKS); 24 Sep (25) Granville, Jackson Co (SJS, Barbara Stedman). *American Bittern:* 26 Sep/22 Oct (1) Shelby Bottoms (PDC/Hazel Cassel, JKS, PDC). *Great Egret:* 11 Sep (1) Gallatin Steam Plant (JKS). *Little Blue Heron:* 27 Aug (1 im) Cane Cr. Park (SJS). *Yellow-crowned Night-Heron:* 11/29 Aug (1 ad/2 ad) Burgess Falls, Putnam Co (SJS, Mary Peterson). *Glossy Ibis:* 27 Sep (1) Cross Cr. NWR (DWB).

*Waterfowl: Snow Goose:* 14 Nov (2080 flying south) Williamsport Lakes WMA (TAE); 14 Nov (3 flocks of 50+) Center Hill L (John Noel); 27 Nov (4 flocks of 50-180) Lewis Co (Mark Mayfield). *Ross' Goose:* 29 Nov (1) Duck River Unit, Humphreys Co (Clayton Ferrell, Robert Wheat). *Green-winged Teal:* 29 Aug (1) White Co (SJS), ers. *Mallard/American Black Duck:* 27 Oct (1 m) Center Hill L (SJS). *Blue-winged Teal:* 7 Sep (105) Radnor L (PDC, FCF, JKS). *Gadwall:* 20 Oct (200) Radnor L (MLM). *Canvasback:* 14 Nov (10) Williamsport Lakes WMA (TAE). *Lesser Scaup:* 22 Oct (200) Radnor L (MLM). *Surf Scoter:* 27 Oct (1) Center Hill L (SJS, GKE). *Hooded Merganser:* 8 Nov (52) Franklin Reservoir, Williamson Co (Elizabeth O'Connor).

*Vulture - Crane: Turkey Vulture:* 16 Nov (105 at roost) City L, Putnam Co (SJS). *Bald Eagle:* 10 Nov (1 ad) Center Hill L (SJS). *Merlin:* 12 Aug (1) Shelby Bottoms (PDC, Susan Hollyday), very early; 19 Sep/13 Oct (1) Radnor L (PDC, FCF). *Peregrine Falcon:* 30 Aug (1) Shelby Bottoms (PDC, JKS); 15-22 Oct (1) downtown Nashville (Sabin Thompson, CAS). *Sora:* 10/26 Sep (1/3) Shelby Bottoms (PDC, JKS/PDC); 12 Sep (1) Warren Co (Mac McWhirter). *Sandhill Crane:* 3 Nov (120) Pickett Co (Dave Hassler); 7 Nov (100+) Putnam Co (David Hume); 14 Nov (45) Jackson Co (Jeanne Schmitze); 16 Nov (4) Monsanto Ponds, Maury Co (TAE); 29 Nov (500+) Clay Co (Terry Campbell).

*Shorebirds - Sapsucker: American Avocet:* 11 Sep (7) Gallatin Steam Plant (PB, FCF, JKS, MAZ); 25-27 Sep (1) Cross Cr. NWR (DWB). *Semipalmated Plover:* 7-9 Sep (1) Cane Cr. Park (SJS), first fall record in Co. *Baird's Sandpiper:* 22 Aug (1) Gallatin Steam Plant (Tom Durbin, David Roemer). *Buff-breasted Sandpiper:* 25-27 Sep (4) Cross Cr. NWR (DWB). *Ring-billed Gull:* 21 Sep (1 ad) Cane Cr. Park (SJS), ers. *Herring Gull:* 21 Sep (1) Pennington Bend (MLM), ers. *Caspian Tern:* 22 Aug/11 Sep (8/3) Gallatin Steam Plant (Tom Durbin, David Roemer/PB, FCF, JKS, MAZ); 5 Aug (3) Shelby Bottoms (PDC). *Forster's Tern:* 11 Sep (1) Gallatin Steam Plant (PB, FCF, JKS, MAZ). *Black Tern:* 25 Aug (26) Center Hill L (SJS). *Barn Owl:*

2 Oct (2) Warren Co (SNM). **Common Nighthawk**: 8 Nov (1) Warren Co (SNM), lrs. **BLACK-CHINNED HUMMINGBIRD**: 15 Aug (1 m) Nashville (Dee Thompson). **Rufous Hummingbird**: 8 Aug (1) Pennington Bend (MLM); 28 Aug - 1 Sep (1 m, b 31 Aug) Hermitage, Wilson Co, recaptured in early Nov in Mt. Juliet, Wilson Co (Nancy Wilkerson, Regina & Steve Garr, JKS, CAS, Portia Macmillan). **Yellow-bellied Sapsucker**: 22 Sep (1) Radnor L (David Dortch), ers.

*Flycatcher - Vireo*: **Olive-sided Flycatcher**: 27/30 Aug (1) Shelby Park (PDC/JKS). **Yellow-bellied Flycatcher**: 19 Sep - 6 Oct (1) Radnor L (PDC, FCF). **Traill's Flycatcher**: 10 Sep (1) Shelby Park (PDC, JKS). **Least Flycatcher**: 22/24 Aug (4/1) Shelby Park/Bottoms (PDC, MAZ/JKS). **Scissor-tailed Flycatcher**: 10 Oct (1) Franklin, Williamson Co (Dennis Adams), lrs at nesting site. **Horned Lark**: 14 Nov (35) Williamsport Lakes WMA (TAE). **Northern Rough-winged Swallow**: 18 Oct (1) Shelby Bottoms (Scott Barnes, PDC), 7 days past Nashville area late date. **Red-breasted Nuthatch**: 13 Aug (1) Putnam Co (Richard Simmers), new early date in Co; 9 Sep (1) Nashville (JKS). **Brown Creeper**: 20 Sep (1) Pennington Bend (MLM), ers. **Bewick's Wren**: 27 Sep (2) Clarksville (Thurston Lee). **Winter Wren**: 23 Sep (1) Pennington Bend (MLM), ers. **Sedge Wren**: 9 Aug - 12 Nov (2-7) Shelby Bottoms (PDC, JKS, m.ob.), see intro; 25 Sep (1) Cane Cr. Park (SJS); 23 Nov (1) Williamson Co (Melinda Welton). **Marsh Wren**: 24 -25 Sep (1) Cane Cr. Park (SJS, GKE); 26 Sep (1) Shelby Bottoms (PDC); 2 Oct (2) Warren Co (SNM); 11 Oct (1) Monsanto Ponds, Maury Co (TAE). **Golden-crowned Kinglet**: 22 Sep (1) Pennington Bend (MLM), ers. **Ruby-crowned Kinglet**: 14 Sep (1) Shelby Bottoms (JKS), ers. **Warbling Vireo**: 22 Sep (1) Radnor L (NTOS), lrs. **Philadelphia Vireo**: 12 Sep (7) Radnor L (FCF), max.

*Warblers*: **Golden-winged Warbler**: 7/19 Sep (4/4) Radnor L (PDC, FCF, MAZ). **"Brewster's" Warbler**: 19 Sep (1) Radnor L (Bonnie Fekel). **Tennessee Warbler**: 13 Aug (1) Pennington Bend (MLM), ers. **Orange-crowned Warbler**: 9/15 Sep (1) Radnor L (PDC, FCF, JKS/FCF), ers. **Nashville Warbler**: 31 Aug (2) Radnor L (PDC, David Dortch, FCF), ties Nashville area early date. **Chestnut-sided Warbler**: 22 Aug (1) Shelby Bottoms (PDC, MAZ), ers. **Magnolia Warbler**: 31 Aug (14) Radnor L (PDC, FCF). **Cape May Warbler**: 18 Sep (1) Shelby Bottoms (NTOS); 22 Sep/12 Oct (1/1) Radnor L (NTOS/PDC, FCF). **Black-throated Blue Warbler**: 7 Sep (1 m) Pennington Bend (MLM); 11 Sep (1 f) Nashville (Nina Gove); 15 Oct (1 m) Radnor L (NTOS). **Prairie Warbler**: 7 Nov (1) Shelby Bottoms (PDC, KAC, FCF, JKS, CAS), new Nashville area late date by 19 days. **Palm Warbler**: 7 Sep (1) Pennington Bend (MLM), ers. **Bay-breasted Warbler**: 31 Aug (3) Radnor L (PDC, FCF), ers. **American Redstart**: 19 Sep (25+) Radnor L (PDC, FCF, MAZ). **Ovenbird**: 23 Oct (1) Putnam Co (GKE), new late date in Co; 7 Nov (1) Pennington Bend (MLM), lrs. **Northern Waterthrush**: 31 Aug (1) Radnor L (PDC, FCF), ers. **Mourning Warbler**: 14 Sep (1) Pennington Bend (MLM). **Hooded Warbler**: 13 Oct (1) Radnor L (PDC, FCF), lrs. **Wilson's Warbler**: 26 Aug/5 Sep (1/4) Shelby Bottoms (PDC, JKS). **Canada Warbler**: 22 Aug (1) Shelby Bottoms (PDC, MAZ), ers.

*Sparrow - Siskin*: **Chipping Sparrow**: 14 Nov (1) Nashville (JKS). **Vesper Sparrow**: 14 Nov (14) Williamsport Lakes WMA (TAE). **Grasshopper Sparrow**: 2-8 Aug (5 b) AEDC (John Lamb); 23 Oct (1) Warren Co (SNM), lrs. **Henslow's Sparrow**: 2-8 Aug (9 b) AEDC (John Lamb). **Nelson's Sharp-tailed Sparrow**: 7-8/16 Oct (1-2) Shelby Bottoms (Mike O'Malley, Kathy Lee, Terry Witt, PDC/PB). **Lincoln's Sparrow**: 16 Sep (1) Shelby Bottoms (JKS). **Swamp Sparrow**: 23 Sep (1) Shelby Bottoms (JKS), ers. **White-throated Sparrow**: 30 Sep (1) Williamson Co (Richard Connors), ers. **Brewer's Blackbird**: 3 Nov (8) Putnam Co (SJS). **Purple Finch**: 22/26 Sep (1/1) separate Putnam Co sites (Richard Simmers/GKE), early; 13 Oct (1) Franklin (Kenny Benge); 21 Oct (1) DeKalb Co (Melinda Welton); 31 Oct (3) Radnor L (FCF); 8 Nov (2) Warren Co (SNM); 9 Nov (15) Pennington Bend (MLM); 26 Nov (1) Nashville (Marlene Proctor). **Pine Siskin**: 19 Nov (1) Nashville (JKS).

*Locations*: AEDC - Arnold Engineering Development Center, Coffee Co; Cane Cr. Park - in Putnam Co; Center Hill L - in DeKalb Co; Cross Cr. NWR - in Stewart Co; Franklin - in Williamson Co; Gallatin Steam Plant - in Sumner Co; Pennington Bend - in Davidson Co; Radnor L - in Davidson Co; Shelby Park/Bottoms - in Davidson Co; Williamsport Lakes WMA - in Maury Co.

FRANCIS C. FEKEL, 8612 Sawyer Brown Road, Nashville, TN 37221.

CUMBERLAND PLATEAU/RIDGE AND VALLEY REGION — The season was mild and quite dry. At Chattanooga, three of the four months experienced rainfall shortages, with a total shortfall just over 7 inches; August and September were the driest, at 3+ inches deficient each. Marshes and ponds showed the most obvious effects of the drought conditions.

A major flight of Snow Geese occurred in November. The lone regional hawk watch continued its coverage. Rankin Bottoms, on upper Douglas Lake, hosted an impressive shorebird concentration of over 20 species during the season. The passerine migration was described by one observer as consisting of "just above average numbers and average species diversity." Other reports tended to support this. Ten warbler species in a single flock on 4 September in Hamilton County was a nice early group (fide KAC). Rarities included Glossy Ibis, Swallow-tailed Kite, American Avocet, and Marbled Godwit. Also notable were two Rufous Hummingbirds, three Brewster's Warblers, and a Nelson's Sharp-tailed Sparrow.

*Grebe - Duck*: **Pied-billed Grebe**: 26 Aug (1) Rankin Bottoms (KTOS), ers. **Double-crested Cormorant**: 21 Aug (60+) Rankin Bottoms (KTOS), max. **Great Egret**: 18 Aug (120+) Rankin Bottoms (KDE, DJT), max there; 20-26 Sep (4 -8) Greene Co (DHM, ACL). **Snowy Egret**: 18-28 Aug (1) Rankin Bottoms (KDE, DJT, KTOS). **Little Blue Heron**: 2-14 Aug (1-2 im) Greene Co (DHM, ACL); 7-28 Aug (1 ad, 1-2 im) Rankin Bottoms (KTOS). **Cattle Egret**: 18-31 Aug (up to 50+) Rankin Bottoms (KTOS). **Black-crowned Night-Heron**: 2 Sep (11) Rankin Bottoms (DHM, ACL). **Glossy Ibis**: 20-26 Sep (1) Greene Co (DHM, ACL). **Snow Goose**: 14 Nov (440 flying south) Soddy Mtn (WGH), regional high count; 14 Nov (25 white, 17 blue) Cherokee Dam

(KDE); 25 Nov (1 white) Cove Lake S.P., Campbell Co (NM); 27 Nov (1 blue) Knox Co (Chris Welsh); 27 Nov (3 white, 6 blue) Hiwassee River area, Meigs Co (John Henderson). **Green-winged Teal:** 21 Aug (3) Rankin Bottoms (KTOS), ers. **Ring-necked Duck:** 29 Nov (251) Soddy L, Hamilton Co (KAC), max.

Table 1. Fall 1999 Hawkwatch Totals from Soddy Mtn. (WGH et al.)  
4 Sep - 7 Dec, 56 days, 255 hours

Black Vulture	57	Red-shouldered Hawk	17
Turkey Vulture	690	Broad-winged Hawk	717
Osprey	9	Red-tailed Hawk	447
Bald Eagle	25	American Kestrel	14
Northern Harrier	10	Merlin	4
Sharp-shinned Hawk	284	Peregrine Falcon	1
Cooper's Hawk	37	Unknown	7

Total: 747 vultures & 1571 hawks = 2318

*Kite - Crane:* **SWALLOW-TAILED KITE:** 8 Aug (1) Loudon Co (Becky & Gary Arrants, fide J. B. Owen). **Osprey:** into Aug (2 ad, 2 yg) Rankin Bottoms (KTOS), nest on old bridge; 27 Nov into Dec (1) Cherokee Dam (KDE). **Broad-winged Hawk:** 11 Sep (1 dark morph) Soddy Mtn (WGH), rare color morph. **Rough-legged Hawk:** 28 Nov (1) Bledsoe Co (Bonnie Johnson). **Merlin:** 18 Sep (1) Greene Co (DHM, ACL). **Peregrine Falcon:** 21 Aug (1) Rankin Bottoms (KTOS); 29 Sep (1) Greene Co (DHM, ACL); 2 Oct into Dec (1) downtown Knoxville (KTOS); thru period (1-2) around Chickamauga Dam nest site (m.ob.). **Sora:** 23 Aug (1) Rankin Bottoms (Jim Holt, Linda Northrop); 2 Sep, 20 Sep - 8 Oct (1) Greene Co, 2 sites (DHM, ACL); 14 Oct (1) Amnicola Marsh, Hamilton Co (KAC); 15 Nov (1) Kingston Steam Plant (DJT). **Sandhill Crane:** 13-16 Sep (1) Greene Co (DHM, ACL); 25 Oct (2) Soddy Mtn (WGH), ers in Chattanooga area; 4/5 Nov (100+) Big South Fork, Scott & Fentress Co (Robert Emmot/SJS).

*Shorebirds:* **Black-bellied Plover:** 6-28 Aug (1) Rankin Bottoms (KTOS); 20-26 Sep (1) Greene Co (DHM, ACL). **American Golden-Plover:** 28-31 Aug (2-1) Rankin Bottoms (KTOS); 16 Sep (1) Eagle Bend, Anderson Co (NM). **Semipalmated Plover:** 6-28 Aug (20+) Rankin Bottoms (KTOS), max. **American Avocet:** 20-26 Sep (1) Greene Co (DHM, ACL). **Greater Yellowlegs:** 14 Aug (30+) Rankin Bottoms (KDE), max; 24 Oct (3) Greene Co (DHM, ACL), lrs. **Lesser Yellowlegs:** 26 Aug (50+) Rankin Bottoms (KTOS), max. **Spotted Sandpiper:** 6 Aug (24) Rankin Bottoms (KTOS), max. **Upland Sandpiper:** 18 Sep (1) U.T. Plant Science Far, Knox Co (KDE, Roger & Christine Tankersley). **Marbled Godwit:** -28 Aug (1) Rankin Bottoms (KDE et al.),

3rd consecutive year found here. **Ruddy Turnstone:** 26-28 Aug (4-2) Rankin Bottoms (KTOS); 12 Sep (1) Kingston Steam Plant (Frank Bills, Laurie Pearl). **Sanderling:** 26-28 Aug (3) Rankin Bottoms (KTOS); 12 Sep (1) Kingston Steam Plant (Frank Bills, Laurie Pearl). **Semipalmated Sandpiper:** 26 Aug (70+) Rankin Bottoms (KTOS), max. **Western Sandpiper:** 26 Aug (30+) Rankin Bottoms (KTOS), max; 20-26 Sep (1-2) Greene Co (DHM, ACL). **Least Sandpiper:** 26 Aug (120+) Rankin Bottoms (KTOS), max. **White-rumped Sandpiper:** 14-18 Aug (2-1) Rankin Bottoms (KDE, DJT). **Baird's Sandpiper:** 18 Aug - 5 Sep (1-2) Rankin Bottoms (KTOS). **Pectoral Sandpiper:** 14/26 Aug (100+) Rankin Bottoms (KDE/KTOS), max. **Dunlin:** 23 Aug (1) Rankin Bottoms (Jim Holt); 20-26 Sep (2-1) Greene Co (DHM, ACL). **Stilt Sandpiper:** 21 Aug - 5 Sep (1-3) Rankin Bottoms (KTOS); 26 Sep (1) Greene Co (DHM, ACL); 2 Oct (4) Kingston Steam Plant (RDH, DM). **Buff-breasted Sandpiper:** 26 Aug - 5 Sep (7-3) Rankin Bottoms (KTOS); 16 Sep (1) Eagle Bend, Anderson Co (NM). **Short-billed Dowitcher:** 14-31 Aug (1-25+) Rankin Bottoms (KTOS). **Common Snipe:** 26 Aug (1) Rankin Bottoms (KTOS), ers. **American Woodcock:** 8 Oct (1) Greene Co (DHM, ACL); 15 Oct/13 Nov (1) Big South Fork (SJS).

*Tern - Hummingbird:* **Caspian Tern:** 14 Aug (2) Rankin Bottoms (KDE); 14 Sep (2) Chickamauga L, Hamilton Co (Harold Sharp). **Black Tern:** 24 Aug (6) Greene Co (DHM, ACL); 25 Aug (28) Cherokee Dam (KDE); 26 Aug (6) Rankin Bottoms (KTOS). **Eurasian Collared-Dove:** 2 Oct (12) Chattanooga (KAC); 13 Oct (1) Jefferson City (KDE). **Barn Owl:** thru mid Sep (2 ad, 4 yg) Jefferson City (KDE). **Common Nighthawk:** 3 Nov (19) Knoxville (Chris Welsh), about 6 lingered into Dec. **Rufous Hummingbird:** 1 Oct into Dec (1) Farragut, Knox Co (Jean Stierberger fide J.B. Owen), returning bird; 29 Nov into Dec (1 im, m, b 4 Dec) Signal Mtn, Hamilton Co (JSL, CAS).

*Flycatcher - Thrush:* **Eastern Wood-Pewee:** 16 Oct (1) Greene Co (DHM, ACL), lrs. **Blue-headed Vireo:** 5 Nov (2) Big South Fork (SJS); 7 Nov (1) Oak Ridge (JDJ), lrs. **Warbling Vireo:** 12 Sep (1) Oak Ridge (JDJ); 14 Sep (1) Hamilton Co (JSL), lrs. **Philadelphia Vireo:** 27 Sep/3 Oct (2/1) Knox Co (KTOS); 19 Sep - 8 Oct (6 reports of 1-3) Hamilton Co (KAC, Libby Wolfe). **Purple Martin:** 2 Aug (3,000) west Knoxville (DJT), max. **Bank Swallow:** 22 Sep (1) Greene Co (DHM, ACL), lrs. **Red-breasted Nuthatch:** 10 Sep (1) Sharp's Ridge, Knox Co (KTOS), ers; 19 Nov (30+) Big South Fork (SJS), max. **Winter Wren:** 13 Nov (13) Big South Fork (SJS), max. **Sedge Wren:** 28 Sep - 16 Oct (1-4) Brainerd Levee, Hamilton Co (KAC); 2-3 Oct (1) Kingston Steam Plant (RDH, DM et al.). **Marsh Wren:** 18 Sep - 3 Oct (1-4 each at 4 sites) Greene Co (DHM, ACL); 28 Sep - 17 Oct (1-4) Brainerd Levee, Hamilton Co (KAC); 2 Oct (3) Kingston Steam Plant (RDH, DM). **Golden-crowned Kinglet:** 5 Nov (87) Big South Fork (SJS), max. **Gray-cheeked Thrush:** 6 Sep (1) Hamilton Co (KAC), ers. **Swainson's Thrush:** 7 Sep (1) Greene Co (DHM, ACL), ers. **Hermit Thrush:** 1 Oct (1) Cove Lake S.P., Campbell Co (NM), ers.

*Warblers:* **Golden-winged Warbler:** 29 Aug (1) Hamilton Co (DFV). **"Brewster's" Warbler:** 6 Sep (1) Oak Ridge (JDJ); 20 Sep (1) Norris Dam, Anderson Co (NM); 25 Sep (1) Hamilton Co (Tommie Rogers). **Tennessee Warbler:** 31 Oct (1) Hamilton Co

(KAC), lrs. **Orange-crowned Warbler**: 13 Sep - 16 Oct (1-3) Greene Co (DHM, ACL). **Northern Parula**: 17 Oct (1) Hamilton Co (KAC), lrs. **Cape May Warbler**: 16 Oct (1) Greene Co (DHM, ACL), lrs. **Yellow-rumped Warbler**: 30 Sep (1) Greene Co (DHM, ACL), lrs. **Black-throated Green Warbler**: 16 Oct (1) Greene Co (DHM, ACL), lrs. **Blackburnian Warbler**: 16 Aug (1) Hamilton Co (JSL), lrs; 17 Oct (1) Hamilton Co (KAC), lrs. **Pine Warbler**: 5 Nov (2) Big South Fork (SJS). **Prairie Warbler**: 6 Oct (1) Greene Co (DHM, ACL), lrs. **Cerulean Warbler**: 4 Sep (1) Hamilton Co (KAC). **Prothonotary Warbler**: 2 Sep (1) Rankin Bottoms (DHM, ACL). **Louisiana Water-thrush**: 18 Sep (1) Greene Co (DHM, ACL), lrs. **Connecticut Warbler**: 16 Sep (1) Norris Dam, Anderson Co (JDJ). **Mourning Warbler**: 28 Sep (1) Greene Co (DHM, ACL). **Wilson's Warbler**: 4 Sep (1) Hamilton Co (KAC), lrs; 5 Oct (1) Greene Co (DHM, ACL), lrs.

*Tanager - Grosbeak*: **Summer Tanager**: 15 Oct (1) Big South Fork (SJS), lrs. **Nelson's Sharp-tailed Sparrow**: 4 Oct (1) Tusculum, Greene Co (DHM, ACL). **Lincoln's Sparrow**: 2 Oct (1) Anderson Co (RDH, DM); 4 -22 Oct (1-3) Greene Co (DHM, ACL); 6-24 Oct (1-3 at 3 sites) Hamilton Co (KAC, Rick Waldrop); 8/15 Oct (1) Big South Fork (NM/SJS); 19 Oct (2) Campbell Co (NM). **Blue Grosbeak**: 13 Oct (1) Greene Co (DHM, ACL), lrs. **Indigo Bunting**: thru end of Nov (1 at feeder) Hamilton Co (fide KAC), lrs. **Dickcissel**: 16 Oct (1) Hamilton Co (KAC). **Purple Finch**: 23 Oct (1) Campbell Co (NM), lrs; several scattered reports thereafter. **Pine Siskin**: 23 Oct (1) Big South Fork (SJS), lrs; a few scattered reports along the Cumberland escarpment. **Evening Grosbeak**: 19 Nov (9) Big South Fork (SJS), only report.

*Locations*: Big South Fork - mainly in Scott Co; Cherokee Dam - on Jefferson/Grainger Co line; Kingston Steam Plant - in Roane Co; Rankin Bottoms - in Cocke Co; Soddy Mtn - in Hamilton Co.

RICHARD L. KNIGHT, 804 North Hills Drive, Johnson City, TN 37604.

EASTERN MOUNTAIN REGION — A Yellow-billed Loon on Watauga Lake was the rare find of the season. Good documentation was submitted for this observation. Waterfowl numbers were about normal for the period. The number of reports for Northern Harrier, Red-shouldered Hawk, and Peregrine Falcon were up. Numbers of spotted thrushes seemed to be down. A fall banding operation on top of Big Bald Mountain in Unicoi County resulted in 43 species being banded with a total of 802 individual birds. The most commonly banded species were Tennessee Warbler, Black-throated Blue Warbler, Magnolia Warbler, and Swainson's Thrush. Another high mountain banding station was operated at Whigg Meadow in Monroe County, with Tennessee Warbler and Swainson's Thrush as the top two species banded.

*Loon - Falcon*: **Common Loon**: 24 Oct (1) S. Holston L. (JWC, DW), lrs. **YELLOW-BILLED LOON**: 30 Nov (1) Watauga L., Carter Co (HPL, BKS), second state record. **Eared Grebe**: 3 Oct/20 Nov (9/2) S. Holston L. (JWC/HTOS). **Double-crested Cormorant**: 24 Oct/20 Nov (1) S. Holston L. (JWC, DW/HTOS). **Turkey Vulture**: 25 Oct (155) S. Holston L. (JWC), max. **Greater White-fronted Goose**: 6 Nov (1)

Middlebrook L., Sullivan Co (DHM et al.); 20-28 Nov (1) S. Holston R. weir, Sullivan Co (RLK, JWC, BKS). **Ruddy Duck**: 24 Oct (36) S. Holston L. (JWC, DW). **Bald Eagle**: 6 Sep (1 ad) Limestone Cove, Unicoi Co (BKS); 29 Oct/20 Nov (1 ad/2 ad) S. Holston L. (Tom Laughlin/HTOS). **Northern Harrier**: 23 Sep (5) Roan Mtn (AJT), max; 1 Nov (2) Shady Valley (JLS). **Red-shouldered Hawk**: 17 Oct (1) Cades Cove (DJT); 31 Oct (2) Shady Valley (JLS, JWC). **Merlin**: 23 Sep (1) Whigg Meadow (DFV); 28 Nov (1) S. Holston L. (JWC, BKS). **Peregrine Falcon**: 11 Sep (1) Foothills Parkway, Blount Co (DJT); 23 Sep (1) Roan Mtn (AJT); 24 Sep (1) Whigg Meadow (DFV); 5 Oct (1) Shady Valley (JLS), first record there; 15 Nov (1) S. Holston L. (HPL, BKS).

*Bobwhite - Wren*: **Northern Bobwhite**: 1-3 Oct (1) Shady Valley (JLS). **Greater Yellowlegs**: 10 Oct (4) S. Holston L. (Larry McDaniel). **Dunlin**: 7 Nov (4) S. Holston L. (JWC). **Bonaparte's Gull**: 24 Oct/15 Nov (1/16) S. Holston L. (JWC, DW/HPL, BKS), ers/max. **Black-legged Kittiwake**: 20 Oct (1, first winter) Chota, Tellico L., Monroe County (Audrey Hoff). **Black-billed Cuckoo**: 3 Oct (1) Shady Valley (JLS). **Barn Owl**: 13 Nov (1) Shady Valley (JLS, Lorie Shumate), first sighting there since 1967. **Northern Saw-whet Owl**: 25 Sep/11 Oct (2/1) Roan Mtn (AJT). **Red-headed Woodpecker**: 1 Oct (1) Shady Valley (JLS); 17 Oct (1) Cades Cove (DJT). **Blue-headed Vireo**: 6 Nov (1) Shady Valley (JWC et al.), lrs. **Philadelphia Vireo**: 10-23 Sep (5 b) Big Bald Mtn (GRM); 13 Sep (1 b) Whigg Meadow (DFV); 8 Oct (1 b) Holston Valley (RPL). **Common Raven**: 8 Sep (1) Gap Cr., Carter Co (AJT); 11 Sep (2) Foothills Parkway, Blount Co (DJT); 16 Oct (1) Sycamore Shoals S P, Carter Co (HTOS); 28 Nov (14) Roan Mtn (RLK), max there. **Black-capped Chickadee**: 14 Sep (1 b) Whigg Meadow (DFV); 21 Nov (1 b) Holston Valley (RPL), best documented record for NE Tenn. **Carolina Chickadee**: 7 Sep (4 b) Big Bald Mtn (GRM), unusual at 5500 ft elevation. **Red-breasted Nuthatch**: 18 Sep (1) Bluff City, Sullivan Co (Bert Hale), ers at low elevation. **Carolina Wren**: 28 Nov (2) Roan Mtn (RLK), unusual at 6200 ft elevation, especially this late.

*Pipit - Grosbeak*: **American Pipit**: 20 Nov (7) S. Holston L. (JWC et al.); 24 - 28 Nov (1-6) Shady Valley (JLS). **Blue-winged Warbler**: 7 Sep (1 b) Big Bald Mtn (GRM). **Golden-winged Warbler**: 15 Sep (1 b) Whigg Meadow (DFV). **Tennessee Warbler**: 4 - 26 Sep (438 b) Big Bald Mtn (GRM); 11-25 Sep (118 b) Whigg Meadow (DFV). **Nashville Warbler**: 11-23 Sep (7 b) Big Bald Mtn (GRM); 1-9 Oct (4 b) Holston Valley (RPL). **Yellow Warbler**: 17 Sep (1 b) Whigg Meadow (DFV), lrs. **Cape May Warbler**: 30 Oct (1) Elizabethton (HTOS), lrs. **Black-throated Blue Warbler**: 4 - 26 Sep (67 b) Big Bald Mtn (GRM). **Blackpoll Warbler**: 4 Sep (1) Hampton, Carter Co (BKS); 11 Sep (1 b) Whigg Meadow (DFV). **Ovenbird**: 30 Nov (1) Elizabethton (HPL), late. **Wilson's Warbler**: 20 Sep (1) Hampton, Carter Co (BKS). **Fox Sparrow**: 28 Nov (4) Roan Mtn (RLK), max. **Lincoln's Sparrow**: 20 Sep (1 b) Whigg Meadow (DFV); 31 Oct (1) Orchard Bog in Shady Valley (JLS, JWC). **Rusty Blackbird**: 24 - 27 Oct (2) Shady Valley (JWC, JLS). **Pine Siskin**: 1 Nov (25) Shady Valley (JLS, Lorie Shumate), max. **Evening Grosbeak**: 28 Nov (20+) Roan Mtn (RLK), max.

*Locations:* Big Bald Mtn - in Unicoi Co; Cades Cove - in Great Smoky Mountains National Park; Holston Valley - in Sullivan Co; Roan Mtn - in Carter Co; Shady Valley - in Johnson Co; S. Holston L. - in Sullivan Co; Whigg Meadow - in Monroe Co.

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## OBSERVERS

PB - Paul Bagguley	GRM - George R. Mayfield, Jr.
DWB - Don W. Blunk	SNM - Susan N. McWhirter
CHB - Carolyn H. Bullock	DHM - Don H. Miller
KAC - Kevin A. Calhoon	NM - Nell Moore
PDC - Phillip D. Casteel	DM - Dollyann Myers
JWC - J. Wallace Coffey	WRP - William R. Peeples
KDE - K. Dean Edwards	DDP - Dick D. Preston
TAE - Thomas A. Edwards	VBR - Virginia B. Reynolds
GKE - Ginger K. Ensor	JKS - Jan K. Shaw
FCF - Francis C. Fekel	JLS - John L. Shumate
MAG - Mark A. Greene	CAS - Chris A. Sloan
WGH - William G. Haley	SJS - Stephen J. Stedman
RDH - Ron D. Hoff	BKS - Bryan K. Stevens
JDJ - J. Dev Joslin	AJT - Allan J. Trently
RLK - Richard L. Knight	DJT - David J. Trently
HPL - Howard P. Langridge	DFV - David F. Vogt
RPL - Richard P. Lewis	DW - Dave Worley
SSL - Selma Lewis	
ACL - Alice C. Loftin	HTOS - Herndon Chapter, TOS
JSL - Jonnie Sue Lyons	MTOS - Memphis Chapter, TOS
MLM - Margaret L. Mann	NTOS - Nashville Chapter, TOS

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

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