

THE MIGRANT

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to Record and Encourage the Study of Birds in Tennessee.
Issued in March, June, September, and December.

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NOTICE TO RESEARCHERS

Several references in this issue include dates later than the cover date of 1994. The journal is behind schedule and it has been necessary to use material which, in some cases, was submitted and accepted later in the year.

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GREEN HERONS FEED BY DIVING INTO DEEP WATER

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While fishing on Cherokee Lake, in northeast Tennessee, on 3 August 1985 I observed some Green Herons (*Butorides virescens*) engaged in unexpected feeding methods. About a dozen Green Herons were standing or stalking along 150 m of shoreline, typical behavior for this species (Kushlan 1976). However, at least three of these herons were also seen to fly out from shore and dive into dense schools of small fish. On these flights, the herons ventured as much as 30 m out from shore to areas where the water depth ranged up to 12 m (determined by a depth-finder on the boat). The flights reached heights of 1-3 m, from which the herons would either flutter feet first onto the water surface and stab at fish with their bills or dive head first into the schools of fish. After each capture attempt the herons flew back to shore. More than 15 such flights were observed, with about two-thirds successful. Their prey were small shad (*Dorosoma* sp., 5-10 cm long), which are abundant, pelagic forage fish in this reservoir. This behavior was seen again in August 1986 in the same area.

I noted a similar incident while fishing at Boone Lake, also in northeast Tennessee, on 18 August 1992. Of five Green Herons perched on logs floating in the lake, one heron flew out, about 2 m above the water, and plopped feet first into the water and stabbed at a school of fish. A shad about 10 cm long was caught and carried to a nearby log, then swallowed. The water depth here was not measured, but probably was no more than 3-4 m.

In a review of heron feeding behavior, Kushlan (1976) attributed nine techniques to the Green Heron, calling it one of the least versatile of the typical day herons. Besides standing and stalking, Green Herons forage by baiting, standing flycatching, foot stirring, foot raking, diving (from a perch), jumping, and swimming feeding (*op. cit.*). The behaviors described above from Cherokee and Boone Lakes fit Kushlan's (1976) definitions for feet first diving (i.e., alight feet first, usually from a hovering position, and stab at prey) and plunging (i.e., dive head first from forward flight or a hovering position). Both methods are generally used in water too deep for wading. Although neither was ascribed to Green Heron by Kushlan (1976), plunging was mentioned as being used by the superspecies "Green-backed Heron" (*B. striatus*) by Hancock and Kushlan (1984).

Plunging and feet first diving by Green Herons, as observed at two east Tennessee reservoirs, apparently represent adaptation to take advantage of an abundant food source that is not always available to them when wading or perched along the shore. The observations reported here were all made in August, at a season in which large schools of shad swim near the surface, but often in deeper open water out from shore.

I thank James Kushlan for reviewing this note.

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KUSHLAN, J.A. 1976. Feeding behavior of North American herons. *Auk* 93:86-94.

Accepted 11 March 1995.

ABANDONED BANK SWALLOW COLONY PROBABLE
IN CANNON COUNTY, TENNESSEE

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In Tennessee, Bank Swallows (*Riparia riparia*) nest primarily in steep banks overlooking the Mississippi River in the west, and recently, have established colonies in human caused habitats, such as fly ash piles, in the east. (Nicholson in press). Middle Tennessee breeding season records are very rare; apparently, the only records were on Shoal Creek in Lawrence County in the early 1980s (Stedman 1986) and on Carson Creek in Cannon County in 1984 (Stedman 1984). In this note, I provide details regarding the observations from Cannon County and correct errors which occurred in the original report.

I conducted surveys for breeding birds in Middle Tennessee during the spring and summer of 1984 for the Ecological Services Division, Tennessee Department of Conservation. During the late afternoon of 22 May 1984, I discovered 32 Bank Swallow burrows about 2 m (6 ft) above the water in a highly eroded bank on Carson Creek near Culpepper, Cannon County, Tennessee. However, no Bank Swallows were observed. Closer investigation revealed that many of the burrows appeared shallow because of obstructions caused by rocks and tree trunks. Many of the deeper burrows had grass growing across or in the entrance.

On 25 May 1984, I revisited the area and explored Carson Creek and tributaries for approximately 5 km (3 miles) around the inactive colony, in case the colony had moved to a nearby location. Although suitable banks for nesting were discovered, there were no indications of current or previous nesting attempts by Bank Swallows. A final visit was made to the burrows on 26 May 1984. On all visits, a pair of Northern Rough-winged Swallows was present in most suitable nesting habitats.

I can only speculate that this was an attempted nesting by Bank Swallows in Middle Tennessee; I know of no other species or natural occurrence that would replicate the appearance of an inactive Bank Swallow colony. If this discovery was a past attempt for Bank Swallow nesting, it apparently represents one of only two known Bank Swallow colonies in Middle Tennessee.

Finally, there were two discrepancies regarding this observation as reported in 1984 (Stedman 1984). The correct number of burrows observed was 32 and the correct date of discovery was 22 May 1984. I regret the error.

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- STEDMAN, S.J. 1986. The season: highland rim and basin region. *Migrant* 57:104-111.

Accepted November 1997.

THE SEASON

RICHARD L. KNIGHT, Editor



SPRING: 1 MARCH - 31 MAY 1994

WESTERN COASTAL PLAIN REGION: The 1994 Spring Season met all expectations. The mild weather neither hindered nor enhanced the number of species observed throughout West Tennessee. Observations on wildlife management areas and refuges confirmed the anticipated waterfowl numbers and departures. The American White Pelicans along the Mississippi River sustained their presence in good number. A Reeve was recorded in Dyer County for a new record in that county. Observers recorded a diverse population of shorebirds in wetland areas. An American White Pelican, Snowy Egret, and Caspian Tern established early arrival dates while a Golden-crowned Kinglet and a LeConte's Sparrow established late dates. The river counties, other counties, and the treatment lagoons at Memphis produced an interesting array of birds found throughout the season.

Grebe-Duck: **Horned Grebe:** 26/27 Mar (1/1) Samburg/ Lake Co. (WGC). **Eared Grebe:** 26 Mar (1) Hardeman Co. (BHW). **American White Pelican:** 6 Mar (95) Ensley Bottoms (MGW, VBR, CHB), early Shelby Co.; 19 Mar (60) TEC (CHB, VBR); 26/28 Mar (21/285+) Mustin Bottoms, Shelby Co. (Pat Keiran); 22 Mar-9 Apr (200 max) Dyer Co. (WGC); 22 Mar-23 Apr (209+ max) Lake Co. (WGC); 8 Apr (17) Rlft L, Obion Co. (MAG). **Double-crested Cormorant:** 1/25 Apr (600 max) Lake Co. (WGC); 13 Apr (205+) Dyer Co. (WGC). **American Bittern:** 28 May (1) TEC (JF, GBB). **Least Bittern:** 21- 28 May (1) TEC (MLG, WRP, JF, GBB); 7 May (1) Lake Co. (MAG). **Snowy Egret:** 27 Mar (4) Everett Lake, Dyer Co. (WGC), early TN record. **Tri-colored Heron:** 6 May (1 ad) Dyer Co. (WGC); 7 May (1) Lake Co. (MAG). **Black-crowned Night-Heron:** 5 Apr-EOP (12 max) Dyer Co.; 7 May (2) Obion Co. (MAG); 17 May-EOP (12) Lake Co. (WGC, MAG). **Yellow-crowned Night-Heron:** 29 Mar-EOP (30 ad, 13 nests, 15 yg) midtown Memphis (OKM, MaH, MGW); 7 May (3) Obion Co. (MAG). **Mute Swan:** 26 Mar (1 ad) Robco Lake, sw Shelby Co. (MLG). **Ruddy Duck:** 23 Mar/7 May (600+/2) Robco Lake, sw Shelby (MLG, MAG).

Osprey-Woodpecker: **Osprey:** 26 Mar (1) TEC (CHB, VBR, MGW), early Shelby Co.; 26 Mar/7 May (1) Samburg (WGC); 26 Mar/ 14 Apr (1/on nest) Gray's Camp, Rlft L, Lake Co.; 9/14 Apr (1) Levee Rd, Lake Co. (WGC); 9 Apr/17 May (1) Dyer Co. (WGC); 16 Apr (1) Decatur Co. (CHB); 16/27 Apr (2/1) Hatchie NWR (MTOS). **Mississippi Kite:** 10 Apr (1) TEC (LCC, CHB, VBR, MGW); 29 Apr (2) Lake Co. (WGC); 17 May (5) Overton Prk (OKM); 29 May (26) n Memphis (LCC, CHB, DoM, VBR, MGW). **Bald Eagle:** 26 Mar/25 Apr (on nest/2 yg) Lake Isom NWR, Lake Co. (WGC); 26 Mar/21 May (2ad, 2yg) Lake #9, KY (WGC). **Sharp-shinned Hawk:** 6

Mar (1) Ensley Bottoms (MGW, VBR, CHB); 17 Mar (1) e Shelby Co. (MLG); 30 Mar (1) Gibson Co. (MAG); 9 Apr (1) TEC (George Payton, John Odgen, LCC); 7 May (1) Burnt Wds (MAG). **Cooper's Hawk**: 2 Mar (1) Gibson Co. (MAG); 13 Mar (1) MLK Park (OKM); 2 Apr (1) e Shelby (MLG). **Merlin**: 23 Apr (1 m) Crockett Co. (MAG). **Peregrine Falcon**: 14 Apr (1) Is. 13 & 25 Apr (1) Long Pt. Rlft L, Lake Co. (WGC); 7 May (1) Obion Co. (MAG). **Sora**: 27 Apr (1) Hatchie NWR (HBD, SSL, JPM, VBR, BHW). **Common Moorhen**: 25 Apr-1 May (2) Kirby Pocket, Rlft L, Obion Co. (WGC, MAG); 7 May (3) Rlft L NWR (MAG).

Shorebirds: **Black-bellied Plover**: 23 Apr/26 May (3 max) Lake Co. & 6/26 May (18 max) Dyer Co. (WGC). **American Golden-Plover**: 13 Mar/9 Apr (106+ max) Dyer Co. & 22 Mar/21 May (114 max) Lake Co. (WGC); 26 Mar/17 Apr (16 max) TEC (MLG); 7 May (1) Lake Co. (MAG). **Black-necked Stilt**: 2 Mar-EOP (36+, 9 nests) TEC (Aaron Gwin, LCC, VBR, CHB, MGW); 29 May (18 ad, 9 yg, 7 nests) n Memphis (LCC, CHB, DoM, VBR, MGW); 25 Apr-EOP (11+) three locations, Lake Co. (WGC); 31 May (1 nest with 4 eggs) Is. 13 (WGC); 11 May (2) Dyer Co. & 12 May (2) 78 N and Obion River, Dyer Co. (WGC). **Solitary Sandpiper**: 19 Mar (1) TEC (CHB, VBR), early. Willet: 25 Apr (23) Is. 13 (WGC); 7 May (2) Burnt Wds, (MAG). **WHIMBREL**: 26 May (5) Lake Co. (WGC). **Western Sandpiper**: 6 May (25) Shelby Farms (MLG). **White-rumped Sandpiper**: 7 May (1) TEC (MAG); 12/21 May (14 max) Lake Co. (WGC); 16/20 May (5 max) Dyer Co. (WGC); 28 May (20) TEC (DoM, VBR, MGW). **Baird's Sandpiper**: 10 Apr (1) Shelby Farms (MLG). **Pectoral Sandpiper**: 3 Mar (2) Shelby Farms (VBR); 11 Mar (22) Dyer Co. & 12 Mar/8 Apr (2000+ max) Lake Co. (WGC). **Dunlin**: 1 Apr/27 May (26 max) Lake Co. (WGC); 6/17 May (59 max) Dyer Co. (WGC); 6 May (3) Shelby Farms (MLG). **RUFF**: 11 May (1 f) Dyer Co. (WGC), first record for county. **Wilson's Phalarope**: 10 Apr-8 May (2) TEC (VBR, LCC, CHB, MGW).

Tern-Woodpecker: **Sterna sp.**: 14 Apr (8) Lake Co. & 6 May (4) Dyer Co. (WGC). **Caspian Tern**: 5 Apr-11 May (8 max) Dyer Co. (WGC) early west TN; 14 Apr-12 May (8 max) Is. 13 (WGC). **Common Tern**: 1 May (26) Lake Co. (MAG). **Forster's Tern**: 20 Apr (1) Shelby Farms (VBR); 25 Apr-16 May (15 max) Lake Co. (WGC, MAG). **Least Tern**: 6/8 May (1/18) Dyer/Lake Cos. (WGC). **Black Tern**: 7 May (14) Lake Co. (MAG); 16 May (4) Lake Co. (WGC). **BARN OWL**: 7 May (1) Rutherford, Gibson Co. (MAG); 16 Apr (2) e Shelby Co. (MLG). **Red-headed Woodpecker**: 23 Mar (2 ad, 1 yg) midtown Memphis (LCC, MAH), first known nesting in midtown in fifteen years.

Flycatcher-Vireo: **Olive-sided Flycatcher**: 7 May (1) Lake Co. (MAG); 25 May (1) Shelby Farms (VBR). **Yellow-bellied Flycatcher**: 7 May (1) Obion Co. (MAG); 8 May (1) Shelby Farms (MLG). **Willow Flycatcher**: 7 May (2) two locations, Obion Co. (MAG); 17 May (1) Shelby Farms (VBR, LVZ). **Least Flycatcher**: 7 May (1) Dyer Co. (MAG); 7-9 May (2) Shelby Farms (VBR, MTOS). **SAY'S PHOEBE**: 7 May (1) Phillipy (MAG). **Tree Swallow**: 3/26 Mar (10/175) Rlft L, Obion Co. (WGC). **Bank Swallow**: 16 Apr (2) Shelby Farms (WRP); 23 Apr (2) Dyer Co. (WGC); 12 May (135 nests) Lake Co. (WGC). **Fish Crow**: 26 Mar-12 May (6) Rlft L S P (WGC); 13 Apr-6 May (1) Dyer Co. (WGC); 16 Apr (1) Hatchie NWR (MTOS); 14 May (3) Overton Park, Memphis (LCC, MAH). **Golden-crowned Kinglet**: 24 Apr (1) Mud Island, Shelby Co. (WBF, LCC), late Shelby date. **Yellow-throated Vireo**: 16 Apr (1) Shelby Farms (WRP); 16/17 Apr (3/2) Decatur Co. (CHB). **Philadelphia Vireo**: 7 May (1) Obion Co. (MAG).

Warbler-Meadowlark: **Swainson's Warbler**: 16 Apr/1 May (2) Shelby Farms (WRP, VBR); 18 May (1) Meeman-Shelby Forest S P, Shelby Co. (LCC, SNM, BHW, HBD, SCF, CHB, VBR). **Northern Waterthrush**: 7 May (1) Rlft L S P (MAG); 8 May (2) Shelby Farms (MLG). **Connecticut Warbler**: 14 May (1) TEC (JAZ). **Painted Bunting**: 4 May-EOP (2) President's Is. (CHB, HBD, DoM VBR, SSL, BHW); 14 May-EOP (2) TEC (JAZ, LVZ, MTOS). **Vesper Sparrow**: 19 Mar (1) TEC (MLG, MGW); 20 Mar (1) Shelby Farms (VBR); 26 Mar/ 10 Apr (3/1) TEC (VBR, CHB, MGW); 4 Apr (3) TEC, 10 Apr (1) Shelby Farms (MLG). **Grasshopper Sparrow**: 2 Apr (1) TEC (VBR); 8 May (1) Shelby Farms (MLG); 23 May (1) President's Is. (DoM, VBR). **LeConte's Sparrow**: 4 Apr (1) Shelby Farms (MLG), late Shelby and west TN. **Song Sparrow**: 22 May (2) TEC (MTOS); 23 May (1) President's Is. (DoM, VBR). **Lincoln's Sparrow**: 17 Mar (1) Shelby Farms (MLG); 16 Apr (1) Shelby Farms (WRP); 16 Apr (2) Decatur Co. (CHB); 7 May (2) Lake Co. (MAG). **Bobolink**: 1 May (25) Lake Co. (MAG); 3 May (1) Shelby Farms (VBR); 7 May (100+) Phillipy (MAG); 8/14 May (300/570) Ensley Levee, sw Shelby Co. (VBR, MGW, LVZ, JAZ); 8/12 May (25/2) Lake Co. (WGC). **Western Meadowlark**: 26 Mar/10 Apr (1) Ensley Bottoms (JF/LCC, VBR, CHB, MGW). Addendum: **LONG-BILLED CURLEW**: 23 May 1989 (15) Is. 13 (WGC).

Locations: See page 65.

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HIGHLAND RIM AND BASIN REGION: Spring in the region featured cooler temperatures than usual into late May. Heavy rains pushed the total precipitation measured well above average and the resultant standing water created good habitat for several uncommon migrant shorebirds. The passerine migration seemed to contain the number of birds we have come to expect as average over the past 10 years. The most unusual sightings included a Glossy Ibis present for a full week in Coffee County, Henslow's Sparrows which formed a small colony near Cheatham Dam, an American White Pelican which overwintered on Old Hickory Lake, and a White-winged Crossbill which delighted many observers by visiting a feeder near Clarksville during most of March.

Grebe-Cuckoo: **Horned Grebe**: 1 Apr (400) Center Hill Lake, DeKalb Co (BJH, SJS), about 2/3 in breeding plumage. **American White Pelican**: thru 11 May (1) Drakes Creek on Old Hickory Lake, Sumner Co (TJW, m.ob.), present from last season. **Double-crested Cormorant**: 8 May (1) Cane Cr. P. (SJS), lrs. **Cattle Egret**: 14 May (5) Wilson Co (JW Sellars Chapter TOS). **Glossy Ibis**: 20-26 Apr (1 breeding plumaged ad) Coffee Co (*Erma L. Rogers, m.ob.), second regional record. **Osprey**: 13 Mar (1) Cordell Hull Lake, Smith Co (BHS, SJS), ers. **Merlin**: 15 Mar (1) Anderson Road Recreation Area, Davidson Co (Jan Shaw). **Ruffed Grouse**: 26 Mar (1) & 14 May (2) Putnam Co (SJS, BHS). **Sandhill Crane**: 19 Feb (110) & 5 Mar (241) Putnam Co (RWS); 6 Mar (450) Putnam Co (BHS, SJS). **Hooded Merganser**: 31 May (1 f) Cane Cr. P. (SJS, m.ob.). **Ruddy Turnstone**: 4 May (1) Ruth. Co (TJW), first Co record. **Western Sandpiper**: 21 May (1) Cane Cr. P. (SJS). **White-rumped Sandpiper**: 4-14 May (1) Cane Cr. P. (*SJS, m.ob.). **American Woodcock**: 26 Mar-1 Apr (ad on nest, 4 eggs) Cane Cr. P. (Michael & Ann Sanders, BHS, SJS). **Least Tern**: 31 May (1) Fate Sanders Marina, J. Percy Priest Res., Ruth. Co (MLM). **Barn Owl**: 1 Apr (1) Warren Co (SNM). **Black-billed Cuckoo**: 14 May (4) Putnam Co (BHS); 31 May (1) Hickman Co (SJS).

Flycatcher-Warbler: **Scissor-tailed Flycatcher**: 17 Apr (1) Franklin Co (fide TJW). **Olive-sided Flycatcher**: 28 Apr (1) Cane Cr. P. (Julie Pharr); 7 May (1) Stewart Co (TJW, David McCarroll). **Bewick's Wren**: 3-31 May (1) Ruth. Co (TJW, m.ob.), fewer than normal despite moderate weather; 29 May (1) Macon Co (SJS). **Tree Swallow**: May (3 nests) Putnam Co (BHS, SJS). **Cliff Swallow**: 31 May (3) DeKalb Co (SJS). **Solitary Vireo**: 20 Mar (1) Warren Co (SNM), ers; 26 Mar (3) Putnam Co (SJS). **Red-eyed Vireo**: 14 May (395) Putnam Co Spring Count, max. **Warbling Vireo**: 4 May (1) Putnam Co (SJS). **Mourning Warbler**: 9-17 May (1) Murf. (TJW); 14-18 May (3) Radnor L. (TJW, m.ob.); 14 May (1) Wilson Co (JW Sellars Chapter TOS). **Connecticut Warbler**: 16-18 May (1) Radnor L. (TJW, m.ob.); 16 May (1) Nashville (MLM); 20 May (1) Murf. (TJW).

Bunting-Crossbill: **Indigo Bunting**: 14 May (464) Putnam Co Spring Count, max. **Grasshopper Sparrow**: 29 May (1) Macon Co & (2) Clay Co (SJS); 8 May thru period (10+) Wilson Co (TJW, m.ob.). **Henslow's Sparrow**: 8 May thru period (6+) Cheatham Co (TJW, m.ob.), small colony established with probably breeding, would be first state breeding record. **Vesper Sparrow**: 19 Mar (1) Warren Co (SNM). **Song Sparrow**: 29 May (1) Clay Co & (2) Macon Co (SJS); 31 May (1) DeKalb Co (SJS); 1-31 May (4+) downtown Murf. (TJW). **White-throated Sparrow**: to 31 May (1) Putnam Co (BHS, SJS), probably injured bird. **Dickcissel**: 29 May (2) Macon Co (SJS); May (10+) Ruth. Co (TJW, m.ob.). **White-winged Crossbill**: 7-28 Mar (1 m) Montgomery Co (Patty Stinger, m.ob.), coming to feeder with goldfinches.

Locations: See page 65.

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CUMBERLAND PLATEAU/RIDGE AND VALLEY REGION: This spring was a rather wet and mild season. More than half of the high seasonal rainfall total fell in March, causing some local flooding. Near normal temperatures in March were followed by slightly warmer than usual conditions in April. As a result, tree leaves emerged a bit early. A cool snap hit in mid May.

Most migrants appeared to move through on schedule. Two species, a flycatcher and a swallow, arrived on new early dates. Waterfowl moved out early. Shorebirds and some transient passerines, mainly thrushes and warblers, seemed somewhat scarce. Perhaps they overflowed the region.

Most noteworthy among rarities was a vagrant Violet-green Swallow near Johnson City, the first for Tennessee (pending acceptance). Also quite rare were Northern Goshawk, Yellow-headed Blackbird, Henslow's and Sharp-tailed Sparrows. Breeding data was reported for woodcock, Barn Owl, Tree Swallows, and, most notably, Bald Eagle and Common Ravens.

Bill Haley manned a spring hawkwatch at Soddy-Daisy, near Chattanooga, from 16 February to 8 May. In 76 hours spread over 27 days he tallied nearly 400 hawks. His totals were: Osprey - 8, Bald Eagle - 2, Northern Harrier - 3, Sharp-shinned Hawk - 33, Cooper's Hawk - 15, Red-shouldered Hawk - 38, Broad-winged Hawk - 100, Red-tailed Hawk - 124, American Kestrel - 27, and 48 unidentified. While hawkwatching in the spring may not be as spectacular as it can be in the fall, useful data can be gathered.

Grebe-Heron: **Pied-billed Grebe**: 15 May (1) Aus Spr (JWB et al.), Irs. **Double-crested Cormorant**: 10 Mar (1) Boone L (RLK); 13 Mar (2) Nick Lake, Marion Co

(RJH); 3-17 Apr (1-4) Aus Spr (RLK); 30 Apr (28, max) Kpt (CDL), present all season (m.ob.); 9 May (45) Rkn Bot (RLK). **American Bittern**: 10-29 Apr (1) Bra Lev (BGM, RJH). **Least Bittern**: 15-16 May (1) Aus Spr (JWB et al.). **Great Egret**: 26 Mar (1) Hmlt Co (RJH); 28 Mar/8 Apr (1/4) Aus Spr (RLK); 8 Apr (1) Kpt (CDL); 14-24 May (1-2) Bra Lev (BGM). **Snowy Egret**: 16 Apr (1) Hmlt Co (RJH). **Black-crowned Night-Heron**: 26 Mar (11) Kpt (RLK), max there, present all season; 5 Apr (4) Nol Wat Sct (JBH); 15 May (3) Bristol (John & Lorrie Shumate). **Yellow-crowned Night-Heron**: 29 Apr-EOP (1-9, with 1-2 im) Bra Lev (BGM).

Goose-Crane: **Snow Goose**: 10 Mar (1) Hmlt Co (RJH); 26 Mar (2 white) Clear Creek L, Bristol, Va. (JWC), lrs. **Blue-winged Teal**: 1 Mar (10) Nol Wat Sct (JBH), ers. **Ruddy Duck**: 2 Apr (40) Nick L, Marion Co (RJH), lrs. **Osprey**: 17 Mar (1) Nol Wat Sct (JBH), ers. **Bald Eagle**: 9 Mar (1) Jhn City (Rad Mayfield); 13 Mar (pair nesting) Marion Co (fide RJH). **Northern Goshawk**: 15 May (1 ad) along I-81 near Wash-Greene Co line (*Ann Tarbell). **Sora**: 1 May (2) Aus Spr (RLK, Harry L. Farthing). **Sandhill Crane**: 4 Mar (155) Hmlt Co (RJH); 14/28 Mar (1/2) eastern Putnam Co (SJS); 7 Apr (2) Greene Co (BLC), well east of their usual migration corridor.

Yellowlegs-Hummingbird: **Greater Yellowlegs**: 13 Mar (6) Marion Co (RJH), ers. **Lesser Yellowlegs**: 21 Mar (2) Bra Lev (BGM), ers. **Solitary Sandpiper**: 8 Apr (1) Wash Co (RLK), ers. **Pectoral Sandpiper**: 10 Mar (1) Aus Spr (FJA), ers. *Dowitcher sp.*: 8 May (9) Aus Spr (JWB et al.). **American Woodcock**: 5 Mar (6) Hmlt Co (WGH, RJH et al.); 23 Apr/25 May (1 ad with 3 yg at separate sites) Big South Fork (SJS). **Bonaparte's Gull**: 3 Apr (31) Boone L (JWC, LCM), max. **Caspian Tern**: 27 May (1) Aus Spr (FJA). **Common Tern**: 5 May (1) pond in Jhn City (FJA). **Forster's Tern**: 16 Apr (1) Boone L (LCM). **Barn Owl**: 23 Apr (2) Greene Co (fide JBH); 1 May (nest with 3 small yg) Sulphur Springs, Wash Co (RLK); continued regular at Jhn City site (m.ob.). **Ruby-throated Hummingbird**: 28 Mar (1) Hmlt Co (BGM), ers.

Flycatcher-Shrike: **Olive-sided Flycatcher**: 7 May (1) Jhn City (RLK). **Acadian Flycatcher**: 25 May (41 singing on 7.5 miles of trail) Big South Fork (SJS), good count. **Great Crested Flycatcher**: 4 Apr (1) Sullivan Co (CDL), record early by 8 days in area. **Horned Lark**: up to 4 singing males all season in eastern Putnam Co (SJS). **Tree Swallow**: 10/26 Mar (12/120) Kpt (RLK), ers/max; 30 Mar (1 at last year's nest site in post) Hmlt Co (WGH); 7 May (pair in next box) Hmlt Co (WGH); 9 May (pair at nest in tree cavity) Rkn Bot (RLK); 2 pairs nesting in boxes at Aus Spr (RLK). **VIOLET-GREEN SWALLOW**: 27 Mar (1) Aus Spr (*RLK), first state record, pending action of Tennessee Bird Records Committee. **Northern Rough-winged Swallow**: 10 Mar (1) Kpt (RLK), record early in area by 7 days. **Cliff Swallow**: 9 May (20+ nesting under bridge) Rkn Bot (RLK). **Common Raven**: 3 Apr (nest found)/9 Apr (3+ yg in nest) active quarry at Watauga & Carter Cos (JWC, LCM/JWC, RLK), details to be published. **Loggerhead Shrike**: late Apr-early May (5 pairs) Wash Co (RLK).

Vireo-Grosbeak: **Warbling Vireo**: 30 Apr (1) Kpt (CDL); 1 May (2) Wash Co (RLK); 8-15 May (1) Greeneville (DHM, ACL); 9 May (1) Rkn Bot (RLK). **Red-eyed Vireo**: 25 May (199 singing on 7.5 miles of trail) Big South Fork (SJS), good count. **Brewster's Warbler**: 30 Apr & 30 May (1 singing m) Prentice Cooper State Forest, Marion Co (WGH). **Prothonotary Warbler**: 23 Apr (1) Greene Co (fide JBH); 1 May-EOP (1) Aus Spr (RLK et al.); 9 May (2) Rkn Bot (RLK); scarce & local in northeast Tennessee. **Swainson's Warbler**: 25 May (2) Big South Fork (SJS). **Henslow's Sparrow**: 16

May (1) Aus Spr (FJA), 4th area record. **Sharp-tailed Sparrow:** 27 May (1) Aus Spr (FJA et al.), 4th area spring record & latest spring record in state. **Lincoln's Sparrow:** 1-4 May (1 at feeder) Wash Co (JWB). **Yellow-headed Blackbird:** 10 Mar (1 m) Aus Spr (FJA et al.), 2nd verified area record. **Pine Siskin:** 23 Apr (3) Hmlt Co (RJH), lrs. **Evening Grosbeak:** a few scattered feeder reports thru late Apr in north-east part of region; 23 Apr (64) Greene Co (fide JBH), max.

Locations: See page 65.

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EASTERN MOUNTAIN REGION: Precipitation was only slightly above normal for the period. May was cooler than normal. There was some frost as late as the second week of May in the lowlands, while some of the high mountains had a late May freeze. Noteworthy records for the period include a Cooper's Hawk nest in Sullivan Co., and 3 Northern Saw-whet Owl nests (in boxes) on the mountains of Roan and Unaka.

Loon-Merganser: **Common Loon:** 1 May (7) S. Hol. L. (JWC). **Double-crested Cormorant:** 1 May (1) S. Hol. L. (JWC). **Green Heron:** 14 Apr (1) Buffalo Valley, Unicoi Co. (FJA), ers. **Yellow-crowned Night-Heron:** 5 Apr (1) Sycamore Shoals State Park, Carter Co. (RLK); 10 Apr (pair at nest) Hunter Swamp, Carter Co. (RLK). **Northern Pintail:** 23 Mar (1) Wat. R. (CFW). **Blue-winged Teal:** 23 Mar (1) Wat. R. (CFW); 25 Mar (2) Shady V. (JLS, LAS). **Redhead:** 15 Mar (2 m) Shady V. (JLS, LAS). **Greater Scaup:** 15 Mar (16) Shady V. (JLS, LAS). **Bufflehead:** 11 Apr (2) Wilbur L. (FJA), lrs. **Hooded Merganser:** 15 Mar (2 f) Shady V. (JLS, LAS); 10 Apr (2) Wat. R. (RLK), lrs.

Osprey-Sapsucker: **Osprey:** 23 Apr (1) Shady V. (JLS). **Sharp-shinned Hawk:** 7 Apr-22 May (1) Shady V. (JLS, LAS). **Cooper's Hawk:** 2 Apr (active nest) S. Hol. L. (LCM, JWC); 6 Apr-16 May (1) Shady V. (JLS, LAS). **Northern Goshawk:** 1 May (1 ad) Hampton Creek, Carter Co. (FJA et al.). **Northern Harrier:** 16 Mar (1) Hol. V. (JLS). **Peregrine Falcon:** 8 May (1 ad) Ripshin L. (FJA). **Wild Turkey:** 10 Apr (1) Wilbur L. (RLK); 1 May (5) Shady V. (JWC, JLS, RPL). **Greater Yellowlegs:** 2/8 Apr (1/4) Wat. R. (CFW). **Spotted Sandpiper:** 18 Apr (1) Shady V. (JLS, LAS), ers. **Least Sandpiper:** 18 Apr (1) Shady V. (JLS, LAS); 15 May (2) Wat. R. (GOW et al.), lrs. **American Woodcock:** 3 Mar (1) Unicoi Co. (FJA); 7 Mar (1) S. Hol. L. (JWC); 9 Apr (1) Erwin, Unicoi Co. (GWS). **Ring-billed Gull:** 1 May (10) S. Hol. L. (JWC), lrs. **Black-billed Cuckoo:** late Apr-mid May (2) Roan Mt. (Randy Pressnel, FJA), apparent breeding birds; 7 May (1) Hol. V. (RPL). **Great Horned Owl:** 10 Apr (1 yg) Wilbur L. (RLK), B-Cliff nest. **Northern Saw-whet Owl:** 16 Mar (1 calling) Roan Mt. (MB); 22-23 Apr (2-3 calling) Unaka Mt. (RM, FJA); 21 Mar/5 May (1 egg/5 eggs) Roan Mt. (MB), in nest box; 2 other nests in nest boxes found in May, one on Roan Mt. and one on Unaka Mt. (MB). **Ruby-throated Hummingbird:** 10 Apr (1) Shady V. (JLS), ers. **Yellow-bellied Sapsucker:** 20 May (1) Shady V. (JWC, JLS, LCM).

Flycatcher-Vireo: **Alder Flycatcher:** 14 May (2) Roan Mt. (TOS), ers. **Least Flycatcher:** 14 May (2 nests) Roan Mt. (TOS). **Tree Swallow:** 20 Mar (7) Shady V. (JLS et al.); 1 May (2-3 nests in gourds) S. Hol. L. (JWC, RPL). **Bank Swallow:** 25 Mar (1) Wat. R. (GWS, SW, Jim Wayland), record early. **Common Raven:** 5 Apr (1) Doe River Gorge, Carter Co. (RLK); 4, 9 Apr (1) Unicoi, Unicoi Co. (RLK); 13 Apr-21 May (1) Shady V. (JLS, LAS); 8 May (3) Ripshin Lake, Carter Co. (FJA). **Tufted Titmouse:** 14 May (pair) Roan Mt. (RLK et al.), above 4600 ft elev. **Brown Creeper:** 24

Apr (1 singing) Unaka Mt. (RM). **Carolina Wren**: reduced numbers, possibly due to last winter's weather. **Veery**: 15 Apr (2) Shady V. (JLS, LAS); 24 May (9) Iron Mountain, Johnson Co. (JLS, LAS). **Cedar Waxwing**: 5 Mar (300) Carter Co. (RM), max. **Solitary Vireo**: 18 Mar (1) Rock Cr. Pk. (FJA), ers. **Warbling Vireo**: 14 May (2) Wat. R. (GOW et al.).

Warbler-Grosbeak: **Orange-crowned Warbler**: 15 May (1) Roan Mt. (RAP), ties record late date. **Northern Parula**: 10 Apr (1) S. Hol. L. (JWC, LCM), ers. **Black-throated Blue Warbler**: 16 Apr (1) S. Hol. L. (JWC), ers. **Black-throated Green Warbler**: 16 Apr (1) S. Hol. L. (JWC), ers. **Prairie Warbler**: 16 Apr (2) S. Hol. L. (JWC, LCM), ers. **Black-and-white Warbler**: 10 Apr (1) Jacobs Creek, Sullivan Co. (JWC, LCM). **Worm-eating Warbler**: 15 Apr (1) Holston Mountain, Johnson Co. (JLS), ers. **Swainson's Warbler**: 15 Apr (1) Shady V. (JLS, LAS), ers. **Louisiana Waterthrush**: 18 Mar (1) Rock Cr. Pk. (FJA), ers. **Hooded Warbler**: 17 Apr (2) Shady V. (JLS, LAS). **Vesper Sparrow**: 4 Apr (2) Shady V. (JLS, LAS). **Savannah Sparrow**: 20 Mar (1) Shady V. (JWC et al.). **Grasshopper Sparrow**: 23 Apr (1) Shady V. (JLS, LAS). **White-crowned Sparrow**: 8 May (8) Hampton Creek, Roan Mt. (FJA), lrs. **Bobolink**: 30 Apr (4 m) Shady V. (JLS, LAS). **Red Crossbill**: 26 Apr (2) Unaka Mt. (JWN). **Purple Finch**: 2 Apr (50) Hol. V. (RPL), max., they outnumbered **House Finch** here but were more scarce in the rest of the region. **Pine Siskin**: 22 May (5) Shady V. (JLS, LAS), lrs; numbers peaked at 70 at feeders in April in Eliz. **Evening Grosbeak**: 1 Mar (200) Shady V. (JLS, LAS), max.; 17 May (2) Shady V. (JLS, LAS), lrs.

Locations: See page 65.

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OBSERVERS

See page 67.

THE MIGRANT

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to Record and Encourage the Study of Birds in Tennessee.
Issued in March, June, September, and December.

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NOTICE TO RESEARCHERS

Several references in this issue include dates later than the cover date of 1994. The journal is behind schedule and it has been necessary to use material which, in some cases, was submitted and accepted later in the year.

THE MIGRANT

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PARTIALLY ALBINISTIC HORNED LARK IN SHELBY COUNTY, TENNESSEE

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On 25 November 1994 at 0900 hrs., Martha Waldron, Dollyann Myers, Virginia Reynolds, Murray Gardler, and I went to the T.E. Maxson sewage treatment plant in Shelby Co. to investigate the report of a Snow Bunting (*Plectrophenax nivalis*).

The day was chilly (approx. 10° C.) and overcast, with some wind. The plowed fields were searched for an hour or so before we located a flock of Horned Larks (*Eremophila alpestris*) that contained a very whitish looking bird. We carefully approached the flock several times to get a better look at this bird, but each time the flock flushed, flew around a bit and settled down again. At least twice when the flock flushed, the whitish bird led the flock in flight. Finally we were able to get close enough to the bird to allow good looks through our binoculars and a spotting scope (Kowa 20-60x).

The wings were largely white. The back was white with grey streaks. The head was mostly whitish without a dark crown. There was a dark mask through the eye area that looked exactly like the Horned Lark mask. The color of this area was very dark, but not solid black. The feeding behavior, size, and shape were noted to be the same as the Horned Larks with which the bird was feeding.

After observing this bird for several minutes on three or four occasions, all five of us judged the bird to be an albinistic Horned Lark, and not a Snow Bunting. I searched *The Migrant* and found only one other mention of albinism in Horned Larks. This was by Adele H. West of Chattanooga (*Migrant*, Vol. 29, No. 3, page 60).

I would like to thank Martha Waldron for comments on an earlier draft of this note.

Accepted 14 March 1995.

PINE GROSBEAKS IN WEST TENNESSEE

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A group of nine local birders observed four Pine Grosbeaks (*Pinicola enucleator*) on 28 March 1992 in the Eagle Creek section of the Tennessee National Wildlife Refuge, Benton County, Tennessee. The birds were feeding on the buds of an elm (*Ulmus* sp.) tree at the edge of a mixed conifer-hardwood forest. The observation began about 1400 CST and lasted 30-40 minutes. The birds were viewed through a variety of binoculars and a 20-60x Kowa spotting scope at very close range (5-15 m). It was a clear, sunny day with the temperature about 60°F. Besides the authors, the observers were Pat Lawrence, Lorine Dodd, Darryl Edmisson, and Bobby Snow.

The birds were robin-sized and had heavy "grosbeak-type" bills. Of the four, two were males and two were females. The males were dull, rose-red and had dark wings with two white wing bars. The females were gray, tinged yellowish on the head and rump, and had a similar wing pattern. We were impressed by their tameness, as they paid us little attention while they fed.

None of us had any previous experience with this species, but we are familiar with the other grosbeaks and finches that occur in this area. The tameness of the birds, the close range, and length of observation allowed us to study the birds, consult our field guides (Peterson 1980, National Geographic Society 1987), and take notes. The combination of size and field marks distinguished these birds as Pine Grosbeaks. We all concurred on the identification.

This sighting was accepted by the Tennessee Bird Records Committee, becoming the first modern record in the state. Parmalee and Klippel (1982) report fossil evidence of Pine Grosbeak from Maury County, Tennessee.

We thank Richard Knight for editorial assistance.

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Accepted November 1997.

BOOK REVIEW: "BLUEBIRDS FOREVER"

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Toops, Connie M. 1994. *Bluebirds forever*. Voyageur Press, Inc., Stillwater, MN. 128 pages plus a 16-page insert. \$35.00. Format: 8.5 x 11 inches.

Three species of bluebirds inhabit North America. Eastern Bluebirds are found in the eastern half, while Mountain Bluebirds and Western Bluebirds occur in the western region. Connie Toops has done an exceptional job of describing and portraying the ecology and behavior of all three species. Each of the 12 chapters is clearly written in nontechnical terms. Throughout the book, the interactions of humans and bluebirds are emphasized. The research activities of many bluebird students are described. In addition, dispersed throughout the book are vignettes, each of two pages, describing the activities of nine bluebird trail operators. The 16-page insert includes construction plans for different types of nest boxes and a list, with addresses, of organizations that promote bluebird conservation.

While the writing is clear, informative, and easy to follow, the feature of the book that will probably impress the most readers is the collection of 126 photographs. Many of the photographs are excellent. Thirty-three of the photographs are full-page and 16 are half-page. Approximately 40% of the book is devoted to photographs.

Typographical errors are virtually nonexistent. I detected few factual errors. The weight of a newly hatched bluebird is said to be 28 grams with an increase to 168-196 grams by day 8. These numbers are not correct. A recently hatched Eastern Bluebird weighs about 2.5 grams, and an adult weighs about 30 grams. The oldest recorded bluebird is said to be 7 years old; while few bluebirds live this long, information about older bluebirds has been published. My main criticism of the book deals not with the small number of factual errors that I detected but with the theme that the survival of bluebirds is dependent on direct assistance from humans. I think this assumption is not correct, although, I should point out, numerous people would disagree with me. I recognize that bluebirds are enticed to some areas because of the presence of nest boxes and, consequently, some local populations are dependent on the availability of nest boxes. However, bluebirds utilize naturally occurring cavities throughout much of their range, and none of the three species of bluebirds is endangered.

The few faults I detected in this book are far outweighed by the positive points. While \$35.00 may seem to be an excessive price for a 128-page book, I believe that most purchasers will agree that the photographs alone are worth the expenditure. I highly recommend this book to anyone who is interested in bluebirds.

Accepted 15 July 1995

THE SEASON

RICHARD L. KNIGHT, Editor



SUMMER: 1 JUNE - 31 JULY 1994

WESTERN COASTAL PLAIN REGION: Mild temperatures and a wet summer were welcomed by both birds and bird watchers. The Mississippi River environs, its tributaries, and other west Tennessee ecosystems supported a wide variety of shorebirds and passerines. A large heronry in Missouri north of the Tennessee line was monitored by USFW. Two smaller heronries at Reelfoot Lake were also monitored. A lone Anhinga showed itself at Reelfoot, keeping alive the possibility of a nest site in the refuge. A number of King Rails and Common Moorhens were observed at Reelfoot. Nesting terns were observed in good numbers on exposed sandbars along the Mississippi River. Based on the number of immature Black-necked Stilts at the sewage lagoons near Memphis, spring nesting was successful. With the placement of donated bluebird houses at several parks and refuges, the sightings of bluebirds and other cavity nesters in these areas have become more numerous. The raptor rehabilitation program at the Memphis Zoo hacked two Eastern Screech Owls at Paris Landing State Park; seven Barred Owls in Henry/Shelby Cos. and two at Wapanocca NWR in Arkansas; 20 American Kestrels in Shelby Co., two at Wapanocca NWR; and nine Mississippi Kites at Paris Landing State Park (OKM).

Grebe-Hawk: **Pied-billed Grebe:** 19 Jun-19 Jul (1 ad, 5 yg; 1 ad, 4 yg and 5 older yg) Burnt Wds (WGC); a number of pairs and yg were observed at different times; the highest count is recorded. **Anhinga:** 13 Jun (1) Upper Blue Basin, Rlft L, Obion Co. (MAG). A heron roost in Missouri north of Cates in Lake Co. was observed on 30 July; there were 1,700+ Cattle Egret, 300+ Snowy Egret, 1,000+ Great Egret, 900+ Little Blue Heron, 10 Black-crowned Night-Heron, 2 Green Heron, 1 White Ibis, 1 Tri-colored Heron (MAG). **Black-crowned Night-Heron:** 4 Jun-26 Jul (3 ad, 6 im) Lake Co. & 9 Jun-EOP (3 ad, 3 im) Dyer Co. (WGC). **Yellow-crowned Night-Heron:** 28 Jun-EOP (1 ad, 1 yg) Lake Co. & 3 Jul (1 ad) Whites Lake, Dyer Co. (WGC). **WHITE IBIS:** 12/20 Jul (2 im/4 im) Burnt Wds (WGC, MAG). **Blue-winged Teal:** 4 Jun/21 Jul (2 m, 1 f, 9 downy yg/7 ad) Dyer Co. (WGC); 5 Jun (1 m) #9 Lake, KY (WGC); 13 Jun (2 ad, 5 yg) Black Slough, Lake Co. (MAG); 2/26 Jul (1 f/12) Burnt Wds (WGC). **Northern Shoveler:** 2 Jun-EOP (1 male) TEC (CHB, MLG, MGW), no evidence of breeding. **Osprey:** 5 Jun (1) Phillipy (WGC); 10 Jun (1) Watershed Lake, Obion Co. (WRP); 19 Jun-EOP (2) Rlft L, Lake Co. & 21 Jul (3 im, one nest; 2 ad, second nest) Rlft L, Obion Co. (WGC). **Mississippi Kite:** 25 Jun (nest, 1 yg) Ft Pillow S P (JF); 14 Jul (1) Shelby Farms (CHB), Kites have been reported in all areas of Shelby; 2 Jul-EOP (1) Dyer Co. & (2) Lake Co. (WGC). **Bald Eagle:** 5 Jun (1 yg, nest)

#9 Lake, KY (WGC); 9 Jun (1 im) Glimp, Lauderdale Co. (CHB, VBR, MGW). **Cooper's Hawk:** 8 Jun (1) 1 mile south of 138 on Naylor Road., Silerton BBS, Hardeman Co. (VBR).

Rail-Phalarope: **King Rail:** 2-7 Jul (2 ad, 1 yg) Dyer Co. & 2-26 Jul (4 ad, 10 downy yg and two juv) Burnt Wds (WGC). Rails were seen at various times at both locations; the number of pairs and their offspring were difficult to determine, the highest count seen at one time is printed in this report (MGW). **Common Moorhen:** 3 Jul (2) Walnut Log (MAG, LPH); 21 Jul (1 ad, 5 downy yg; 2 ad, 3 downy yg) Kirby Pocket, Rlft L, Obion Co. (WGC). The EARTH Complex continues to attract both birds and birders. This report reflect the high count made by the following observers (CHB, MLG, DoM, VBR, RLW, MGW). **Semipalmated Plover:** 17 Jul-EOP (10 max) Lake Co. & 20 Jul-EOP (9 max) Dyer Co. (WGC); 23 Jul-EOP (5 max) TEC. **Black-necked Stilt:** 5 Jun (1) Is. 13 (WGC); 23 Jun/3 Jul (nesting) Whites Lake, Dyer Co. (WGC); 17 Jul (149+) TEC; 19 Jul-EOP (1) Burnt Wds (WGC, MAG). **Greater Yellowlegs:** 10 Jul (4) TEC (DLW, MGW) early w TN; 12/20 Jul (3 max) Lake Co. (WGC). **Lesser Yellowlegs:** 2 Jul-EOP (60 max) Burnt Wds (WGC); 17 Jul (37 max) TEC. **Solitary Sandpiper:** 4 Jun (1) Lake Co. (WGC), late west TN; 2 Jul (5) Burnt Wds (WGC); 10 Jul-EOP (6 max) TEC. **Willet:** 12/20 Jul (3/1) Burnt Wds (WGC, MAG), early west TN. **Spotted Sandpiper:** 26 Jul-EOP (13 max) Lake Co. (WGC). **Semipalmated Sandpiper:** 31 Jul (296 max) TEC. **Western Sandpiper:** 13 Jul (8 max) Lake Co. (WGC); 17 Jul (3) TEC; 15/20 Jul (3/1) Dyer Co. (WGC); 25 Jul (2) Burnt Wds (MAG, GMG). **Least Sandpiper:** 17 Jul (137 max) Phillipy (WGC); 17 Jul (230 max) TEC. **White-rumped Sandpiper:** 4 Jun (1) Dyer Co. (WGC); 23 Jul (4) TEC; 29 Jul-EOP (1) Burnt Wds (WGC). **Pectoral Sandpiper:** 12 Jul-EOP (314 max) Lake Co. (WGC); 30 Jul (215 max) TEC; 30 Jul (400+) Burnt Wds (MAG). **Stilt Sandpiper:** 12 Jul-EOP (52 max) Lake Co. (WGC); 17 Jul (17 max) TEC; 25 Jul (10) Burnt Wds (MAG, GMG). **Buff-breasted Sandpiper:** 30 Jul (1) Dyer Co. (WGC). **Short-billed Dowitcher:** 30 Jul (3) Burnt Wds (MAG). *Dowitcher sp.:* 12/26 Jul (3/10) Black Bayou/Burnt Wds, Lake Co. (WGC); 25 Jul (2) Dyer Co. (WGC); 10/27 Jul (8 max) TEC. **Wilson's Phalarope:** 19 Jul (1) Burnt Wds (MAG).

Tern-Woodpecker: **Caspian Tern:** 3/25 Jul (4) Is. 13/Upper Blue Basin, Lake Co. (MAG, GMG). **Common Tern:** 25 Jul (6) Burnt Wds (MAG, GMG). **Forster's Tern:** 23 Jun (1) Whites Lake, Dyer Co. (MGC), late west TN or summering non-breeder; 17/21 Jul (1/4) Dyer/Obion Cos. (WGC); 25 Jul (4) Upper Blue Basin, Lake Co. (MAG, GMG). **Least Tern:** 16-22 Jun (3210 max) river mile 871.9 to 716.3 Mississippi River (JPR), highlights of the small boat survey located 400 birds at mile 863.4 (Is. 13), 250 at mile 824.9 (Huffman Ldg), 750 at mile 807.5 (Nebraska Pt.), 300 at mile 789 (Keyes Pt.), 325 at mile 755 (Shelby/Tipton line), 150 at mile 716.3 (Cow Island). **Black Tern:** 15 Jul (3) Shelby Farms (MLG); 23 Jun/3 Jul (3/1) Whites Lake, Dyer Co. (WGC); 21 Jul (11) Rlft L, Obion (WGC). **Barn Owl:** two locations in Shelby produced young while at three additional sites individual birds were observed (MGW). **Red-headed Woodpecker:** 30 Jun (2) Southwind Golf Course, se Shelby (GRP, JBP).

Swallow-Sparrow: **Bank Swallow:** 9 Jun (110) Fulton, Lauderdale Co. (CHB, VBR, MGW); 14 Jun (85 nests) Chickasaw NWR (CHB, GCP, VBR, MGW). On 30 July, the island north of Cates (Lake Co.) provided a roost for 1,000+ American Crow, 200+ Fish Crow and 20,000+ Purple Martin (MAG). **Fish Crow:** 9 Jun (2) Lwr Hatchie NWR (CHB, VBR, MGW); 13 Jun (4) Rlft L (WGC); 25 Jul EOP (5 max) Burnt Wds

(WGC, MAG); 26 Jul-EOP (1) Is. 13 (WGC); 26 Jul (8) Trenton, Gibson Co. (MAG, BLG). **Yellow Warbler:** 9 Jun (2) Lwr Hatchie NWR (CHB, VBR, MGW). **Pine Warbler:** 4 Jun (8) Hillville, Hatchie NWR (DoM, MGW). **Prairie Warbler:** 4 Jun (2) Big Eddy, Hatchie NWR (DoM, MGW), not always present on the breeding bird count day. A breeding bird survey has been made on the refuge by boat and car since 1974 except for the years from 1976 to 1980. **Black-and-white Warbler:** 8 Jun (1) Whiteville BBS, Hardeman Co. (CHB, VBR); 12 Jun (1) west of Mooring, Lake Co. (WRP) first for both counts. **Swainson's Warbler:** 2 Jun (4) Hatchie NWR, upper river (LCC, JBG, Bob Cooper); 4 Jun (3) Hatchie NWR, lower river (CHB, GCP, Glenn Stanley). **Scarlet Tanager:** 11 Jun (1) ne of Samburg (WRP). **Blue Grosbeak:** 4 Jun (3 max) Hatchie NWR (DoM, VBR, MGW); 9 Jun (5) Lwr Hatchie NWR (CHB, VBR, MGW). **Painted Bunting:** 7 Jul (1) TEC (MLG). **Grasshopper Sparrow:** 12 Jun (4) PawPaw BBS, Lake Co. (WRP), four different stops. **Song Sparrow:** 1 Jun-EOP (2) TEC (CHB, MLG, VBR, MGW) in two locations; 12 Jun (1) west of Mooring, Lake Co. (WRP).

Locations: See page 65.

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HIGHLAND RIM AND BASIN REGION: Summer weather in the region featured average temperatures, but the amount of precipitation was well above normal. A modest number of reports were received. Henslow's Sparrows remained near Cheatham Dam and the first breeding record for the state was suspected. Apparently a pair of Golden Eagles successfully fledged one young, but no details were received (Jackson Co). A most unusual hawk sighting on 3 June is included for interest.

Bittern-Woodcock: **Least Bittern:** 5 Jun (1) City Lake, Putnam Co (BHS), third Co record. **Cattle Egret:** 14 Jun (6) Ovoca Lake, Coffee Co (Marguerite & Frank Hernandez). **Great Egret:** 23 Jul (1) White Co (SJS). **Yellow-crowned Night-Heron:** 21 Jul (1 ad, 1 im) Burgess Falls, Putnam Co (SJS, Tom Saya). **Hooded Merganser:** 1 Jun (1 f) Cane Cr. P. (SJS, m.ob.). **Osprey:** 25 Jun (1) Cheatham Res., Cheatham Co (Jan Shaw); 2 Jul (1) J. Percy Priest Res. (Hazel Cassel). **Bald Eagle:** 16 Ju (1) J. Percy Priest Res. (MLM). **Cooper's Hawk:** 30-31 Jul (2) Jackson Co (BHS, SJS). **NORTHERN GOSHAWK:** 3 Jun (1 im) Bedford Co (Melissa & Roy Turrentine), well documented with field sketches. **Spotted Sandpiper:** 13 Jun (1 ad, 2 yg) Williamson Co (SJS), also nested there in 1993. **Least Sandpiper:** 8-15 Jul (1-4) Cane Cr. P. (SJS). **American Woodcock:** 6 Jun (1) Metro Center, Nashville (TJW).

Flycatcher-Vireo: **Willow Flycatcher:** 6 Jun (2) Metro Center, Nashville (TJW). **Scissor-tailed Flycatcher:** 1 Jul (1) Montgomery Co (George Shroer). **Tree Swallow:** 30 Jun-7 Jul (4 yg fledged) Montgomery Co (Joe D. Allen), first Co nesting; 8-11 Jul (4+) Cane Cr. P. (SJS). **Cliff Swallow:** 13 Jun (9) Maury Co (SJS). **Bewick's Wren:** 1 Jun-28 Jul (1 singing) Montgomery Co (Joe D. Allen); 11 Jun (1) Williamson Co (SJS). **Solitary Vireo:** 19 Jun-6 Jul (1) Cheatham Co (RC, FJM). **Warbling Vireo:** 1 Jun (1) Coffee Co (SJS).

Warbler-Oriole: **Chestnut-sided Warbler:** 4 Jun (3 singing m) Cheatham Co (RC). **Yellow-rumped Warbler:** 1 Jun (1) Coffee Co (SJS), late migrant. **Blackburnian Warbler:** 4 Jun (1) Cheatham Co (RC). **Black-and-white Warbler:** 8 Jul (1) Radnor L. (MLM). **Prothonotary Warbler:** 8-20 Jul (2+, nested) Sumner Co (Dick Newton).

Northern Waterthrush: 13 Jun (1) Radnor L. (MLM), very late. **Louisiana Waterthrush:** 8 Jul (1) Radnor L. (MLM), still singing. **Canada Warbler:** 30 Jul (1) Radnor L. (GAF), new early fall arrival in Nashville area. **Dickcissel:** 1 Jun (7) Bedford Co (SJS). **Lark Sparrow:** 22 Jul (1) Nashville (MLM). **Grasshopper Sparrow:** 1 Jun (5) Bedford Co (SJS); 13 Jun (1) Hickman Co (SJS); 20 Jul (1 carrying food) AEDC, Franklin Co (DLD). **Henslow's Sparrow:** from last season thru 31 Jul (3+) Cheatham Co (TJW, m.ob.), nesting suspected. **White-throated Sparrow:** 1 Jun-1 Jul (1) Putnam Co (BHS, SJS), first summer record in Co. **Baltimore Oriole:** 1 Jun (5) Coffee Co (SJS).

Locations: See page 65.

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CUMBERLAND PLATEAU/RIDGE AND VALLEY REGION: Following a mild and wet spring, summer continued warm and wet. Nearly triple the average amount of rain fell in July. The effects of this on birdlife were uncertain.

Most notable this season was the two-day count of 205 singing Cerulean Warblers along 16 miles of trails at Frozen Head State Park, on the northern plateau. This must surely be the greatest concentration of this beleaguered Neotropical migrant in the state.

Loon-Heron: **Common Loon:** 27 Jun (1) Chick L (BTC). **Pied-billed Grebe:** 19 Jul (1) Chick L (KHD, LHD). **Double-crested Cormorant:** 10 Jun (1) Nol Wat Sct (Mike Edmonds). **Great Egret:** 6 Jun/26 Jul (1) Nol Wat Sct (JBH); 25 Jul (1) Aus Spr (JWC, LCM); 30 Jul (4) Bra Lev (LAW). **Little Blue Heron:** 30 Jul (1) Bra Lev (LAW). **Cattle Egret:** 13 Jun (3) Sav Bay (KHD, LHD). **Black-crowned Night-Heron:** 1 Jul (1) Watts Bar Dam, Rhea & Meigs Cos (BTC); 23 Jul (2) Middlebrook L, Bristol, Va. (JWC); 31 Jul (12) Boone L (Lloyd Jones).

Hawk-Woodpecker: **Cooper's Hawk:** 5 Jun (4 nestlings banded) Holston Valley, Sullivan Co (JWC, RLK, Pat Galliher, LCM); 12 Jun/6 Jul (1) Sav Bay (KHD, LHD); 12 Jun (1) Jonesborough, Wash Co (DEH). **Peregrine Falcon:** 30 Jul (1) Bra Lev (LAW). **American Coot:** 25 Jun (3) Nick L, Marion Co (BTC); 5/19 Jul (2/3) Chick L (KHD, LHD). **Spotted Sandpiper:** 3 Jun (1) Aus Spr (RLK), late migrant? **Pectoral Sandpiper:** 27 Jul (17) Bra Lev (KAC). **Short-billed Dowitcher:** 27 Jul (12) Bra Lev (KAC). **Common Tern:** 10 Jul (5) Boone L (Mary Jane Erwin, Judy Roach). **Forster's Tern:** 27 Jun (1) Chick L (BTC); 10 Jul (2) Boone L (Lloyd Jones). **Barn Owl:** 12 Jun (1) Hmlt Co (KHD, LHD, KAC); mid Jun (nest with yg) Albany, Greene Co (Richard Nevius). **Red-headed Woodpecker:** 1/22 Jul (2 a, 1 im) Hmlt Co (TLR).

Flycatcher-Thrush: **Willow Flycatcher:** 5 Jun (2 singing) 3 miles SE of Wartburg, Morgan Co (SJS). **Horned Lark:** 14 Jun (1 singing) eastern Putnam Co (SJS). **Tree Swallow:** early Jun (pair nesting in bluebird box) Bowmantown, Wash Co (Herb Armentrout, RLK); 12 Jun-29 Jul (2-3) Nol Wat Sct (JBH, ACL, DHM); 4 Jul (8) Hiwassee River, Meigs & Bradley Cos (BTC); 4 Jul (6) Watts Bar L, Rhea Co (BTC). **House Wren:** 23 Jun (2) Sav Bay (KHD, LHD). **Winter Wren:** 4 Jun (1 singing) Frz Hd (SJS), at 2800-2900 ft. elevation, possible breeder. **Blue-gray Gnatcatcher:** 3 Jun (41) Tenn. R. Gorge (LHD, TLR). **Gray-cheeked Thrush:** 4 Jun (1) Frz Hd (SJS), late migrant.

Vireo-Oriole: **Solitary Vireo:** 4/5 Jun (21 total, including adult on nest at 1800-1900 ft. elev.) Frz Hd (SJS); 4 Jul (3) Foster Falls, Marion Co (TLR). **Yellow-throated Warbler:** 3 Jun (25) Tenn. R. Gorge (LHD, TLR). **Cerulean Warbler:** 4/5 Jun (106/

99) Frz Hd, on non-overlapping 9 & 7 mile trail segments, mostly between 2000-3100 ft. elev. (SJS), excellent count. **Swainson's Warbler**: 15/16 Jun (1) Big South Fork NRR, Scottt Co (SJS). **Rose-breasted Grosbeak**: 4/5 Jun (13, including female on nest at 2100 ft. elev.) Frz Hd (SJS). **Savannah Sparrow**: 27 Jun (1) Greene Co (ACL, DHM). **Northern Oriole**: 7 Jun (1) Hmlt Co (KHD, LHD); 9 Jun (2) Tenn. R. Gorge (KHD, LHD).

Locations: See page 65.

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

EASTERN MOUNTAIN REGION: Precipitation was about 2 inches above normal for the period. Temperatures were moderate with no excessive hot streaks.

Egret-Owl: **Great Egret**: 14 Jul (1) Powder Branch, Carter Co. (Vickie Lewis). **Cooper's Hawk**: 5 Jun (nest, 4 yg, banded) Hol. V. (JWC, RLK, LCM, Pat Galliher). **Wild Turkey**: 12 Jul (1) White Top Knobs, Sullivan Co. (RPL). **Spotted Sandpiper**: 18 Jul (1) S. Hol. L. (JWC, LCM). **Northern Saw-whet Owl**: 2 nests on Roan Mt. fledged 4 young each, a nest on Unaka Mt. failed (MB).

Flycatcher-Siskin: **Alder Flycatcher**: early to mid June (2, on territory) Carver's Gap, Roan Mt. (FJA). **Tree Swallow**: 4 Jun (1) Hunter, Carter Co. (RLK); 5 Jun (2) S. Hol. R. (JWC, LCM); 19 Jun (2 ad, 3 yg) Ripshin L. (RM). **Red-breasted Nuthatch**: early to mid June (1-5) Roan Mt. and Unaka Mt. (RLK et al.); 6 Jun (1) Rock Cr. Pk. (FJA, RLK), 1800 ft elev. **Brown Creeper**: 4/19 Jun (3 singing/2 singing) Roan Mt. (RLK) in spruce-fir. **Hermit Thrush**: 4/19 Jun (2 singing/1 singing) Roan Mt. (RLK), in spruce-fir. **Brown Thrasher**: 4/19 Jun (1) Carver's Gap, Roan Mt. (RLK). **Warbling Vireo**: 5 Jul (1) S. Hol. R. (JWC, LCM). **Blue-winged Warbler**: 19 Jun (2) Poga, Carter Co. (TSM), also present here the 2 previous summers. **Yellow-rumped Warbler**: 4 Jun (1 male on territory) Carver's Gap, Roan Mt. (RLK). **Blackburnian Warbler**: 17 Jul (3) Low Gap, Holston Mountain, Sullivan Co. (LCM, JWC, JLS). **Swainson's Warbler**: 31 May (nest with 5 eggs) Rock Cr. Pk. (FJA, Ron Austing), later with 4 young and 1 unhatched egg; 4 Jun (1) Harper's Creek, Holston Mountain, Sullivan Co. (JWC, JLS), 2200 ft elev., new at this site. **Pine Siskin**: 4/19 Jun (10/2) Roan Mt. (RLK); 2/18 Jun (2/3) Unaka Mt. (DEH/RLK).

Locations: See below.

RICHARD P. LEWIS, 407 V.I. Ranch Road, Bristol, TN 37620.

LOCATIONS

WESTERN COASTAL PLAIN REGION: Burnt Wds-Burnt Woods, Reelfoot Lake, Lake Co.; Big Sandy-Big Sandy Unit, Tennessee NWR, Haywood Co.; Chickasaw NWR-Chickasaw National Wildlife Refuge, Lauderdale Co.; Ensley Bottoms-Ensley Bottoms, Shelby Co.; Fort Pillow S P-Fort Pillow State Park, Lauderdale Co.; Germantown-Germantown, Shelby Co.; Grt Rvr Rd-Great River Road, Dyer Co.; Hatchie NWR-Hatchie National Wildlife Refuge, Haywood Co.; Is. 13-Island 13, Lake Co.; Kndy Pk-Kennedy Park, Shelby Co.; Lauderdale WMA-Lauderdale Waterfowl Management Area, Lauderdale Co.; Lwr Hatchie NWR-Lower Hatchie National Wildlife Refuge, Tipton Co.; Long Point-Long Point, Reelfoot Lake, Lake Co.; MLK Park-Martin Luther King Park, Shelby Co.; Mustin Bottoms-Mustin Bottoms, Shelby Co.; Overton Prk-Overton Park, Shelby Co.; Phillipy-Lake Co.;

Pickwick S P-Pickwick State Park, Hardin Co.; President's Is.-President's Island, Shelby Co.; Rlft L-Reelfoot Lake, Lake and Obion Cos.; Rlft L NWR-Reelfoot Lake National Wildlife Refuge, Obion Co.; Rlft LS P-Reelfoot Lake State Park, Lake Co.; Samburg-Samburg, Obion Co.; Shelby Farms-Shelby Farms (formerly Penal Farm), Shelby Co.; TEC-The Earth Complex, Shelby Co.; Walnut Log-Walnut Log, Reelfoot Lake, Obion Co.; MARTHA G. WALDRON, 1626 Yorkshire Dr., Memphis, TN 38119

HIGHLAND RIM AND BASIN REGION: Big Sandy-Big Sandy Unit, Tennessee NWR, Benton Co.; Burgess Falls-Burgess Falls State Natural Area, Putnam Co.; Cane Cr. P.-Cane Creek Park, Putnam Co.; Duck River-Duck River Unit, Tennessee NWR, Humphreys Co.; Gal.Stm.P.-Gallatin Steam Plant, Sumner Co.; Greens Pond-Greens Pond, Old Hickory Lake, Sumner Co.; Mon. Ponds-Monsanto Ponds, Maury Co.; Old Hick. L.-Old Hickory Lake, Sumner Co.; Metro Center-Metro Center, Davidson Co.; Murf.-Murfreeseboro, Rutherford Co.; Pace Point-Pace Point, Big Sandy Unit, Tennessee NWR, Benton Co.; Radnor L.-Radnor Lake State Natural Area, Davidson Co.; Ruth. Co-Rutherford Co.; Shelby Bottom-Shelby Bottom, Davidson Co.; Woods Res.-Woods Reservoir, Franklin Co.; TERRY J. WITT, 507 Highland Terrace, Murfreeseboro, TN 37130

CUMBERLAND PLATEAU/RIDGE AND VALLEY REGION: Aus Spr-Austin Springs, Washington Co.; Big South Fork-Big South Fork National River & Recreation Area, Scott Co.; Boone L-Boone Lake, Sullivan & Washington Cos; Bra Lev-Brainerd Levee, Hamilton Co.; Cher L-Cherokee Lake, Grainger & Hamblen Cos portion; Chick L-Chickamauga Lake, Hamilton Co portion; Doug L-Douglas Lake, Jefferson & Sevier Cos; Frz Hd-Frozen Head State Park, Morgan Co.; Ft Loud L-Fort Loudon Lake, Knox Co portion; Gvl-Greeneville; Hmlt Co-Hamilton Co.; Jhn City-Johnson City; Kpt-Kingsport; Ktn Stm P-Kingston Steam Plant, Roane Co.; Lst-Limestone, Washington Co.; Nick L-Nickajack Lake, Marion Co.; Nol Wat Sct-Nolichucky Waterfowl Sanctuary, Greene Co.; Rkn Bot-Rankin Bottoms, Cocke Co.; Sav Bay-Savannah Bay, Hamilton Co.; Tenn. R. Gorge-Tennessee River Gorge, Marion Co.; Wash Co-Washington Co.; RICHARD L. KNIGHT, 804 North Hills Drive, Johnson City, TN 37604

EASTERN MOUNTAIN REGION: Big Bald Mt.-Big Bald Mountain, Unicoi Co.; Cades Cove-Great Smoky Mountains National Park; Cross Mtn.-Cross Mountain, Johnson Co.; Eliz.-Elizabethton, Carter Co.; Hol. V.-Holston Valley, east Sullivan Co.; Ripshin L.-Ripshin Lake, Carter Co.; Roan Cr.-Roan Creek arm of Watauga Lake, Johnson Co.; Roan Mt.-Roan Mountain, Carter Co.; Rock Cr. Pk.-Rock Creek Park, Unicoi Co.; Shady V.-Shady Valley, Johnson Co.; S. Hol. L.-South Holston Lake, Sullivan Co.; S. Hol. R.-South Holston River, Sullivan Co.; Wat. L.-Watauga Lake, Carter Co.; Wat. R.-Watauga River, Carter Co.; Wilbur L.-Wilbur Lake, Carter Co.; Unaka Mt.-Unaka Mountain, Unicoi Co.; RICHARD P. LEWIS, 407 V.I. Ranch Road, Bristol, TN 37620

ABBREVIATIONS

<i>ad</i> - adult	<i>lrs</i> - latest reported sighting
<i>b</i> - banded	<i>max</i> - maximum one day count
<i>co.</i> - county	<i>m.ob.</i> - many observers
<i>EOP</i> - end of period	<i>Res.</i> - Reservoir
<i>ers</i> - earliest reported sighting	<i>yg</i> - young
<i>fide</i> - reported by	* - documentation submitted
<i>im</i> - immature	

OBSERVERS

WESTERN COASTAL PLAIN REGION

CHB	- Carolyn H. Bullock	JPM	- Joyce P. Morrison
GBB	- Gilbert B. Beaver	CWM	- Charles W. McCrary
JDC	- Jamie Casey	NPM	- N. P. McWhirter
LCC	- Lula C. Coffey	SNM	- Susan N. McWhirter
RTC	- Robert Casey	OKM	- O. Knox Martin
WGC	- William G. Criswell	DDP	- Dick D. Preston
HBD	- Helen B. Dinkelspiel	DFP	- Don F. Preston
JF	- Joe Francis	GRP	- George R. Payne
SCF	- Sue C. Ferguson	JBP	- Jeanne B. Payne
WBF	- William B. Fowler	RWP	- Robert W. Peeples
BLG	- Bethany L. Greene	WRP	- William R. Peeples
BNG	- Beverly N. Griffin	GCP	- Gaynell C. Perry
GMG	- Gail M. Greene	EJR	- Ernie J. Restivo
JBG	- Joe B. Guinn	VBR	- Virginia B. Reynolds
MAG	- Mark A. Greene	JPR	- John P. Rumancik
MLG	- Murray L. Gardler	RRS	- Richard R. Spore
AHH	- Anne H. Heilman	BHW	- Barbara H. Wilson
AIH	- Allen Hight	JEW	- James E. Waldron
HSH	- Helen S. Hight	JRW	- Jeff R. Wilson
MaH	- Martha Heinemann	MGW	- Martha G. Waldron
LPH	- L. Paul Hertzell	RLW	- Dick L. Whittington
RDH	- Ron D. Hoff	TJW	- Terry Witt
GLI	- Ginger L. Iardi	JAZ	- John A. Zempel
TMI	- Theresa M. Irion	LVZ	- Linda V. Zempel
SSL	- Selma S. Lewis	MTOS	- Memphis Chapter, TOS
DoM	- Dolly Ann Myers		

HIGHLAND RIM AND BASIN REGION

JDA	- Joe D. Allen
TC	- Theresa Clark
RC	- Richard Connors
DLD	- Don L. Davidson
GAF	- Gilbert A. Foster
MSH	- Mark S. Hackney
MLM	- Margaret L. Mann
FJM	- F. Joseph McLaughlin
NPM	- N.P. McWhirter
SNM	- Susan N. McWhirter
NTOS	- Nashville Chapter TOS
RWS	- Richard W. Simmers
CAS	- Chris A. Sloan
BHS	- Barbara H. Stedman
SJS	- Steven J. Stedman
ATT	- Ann T. Tarbell
TJW	- Terry J. Witt
RLW	- R. L. "Pete" Wyatt

CUMBERLAND PLATEAU/RIDGE AND VALLEY REGION

FJA - Fred J. Alsop	DEH - Dan E. Huffine
PHB - Phine H. Britton	RLK - Richard L. Knight
JWB - James W. Brooks	ACL - Alice C. Loftin
KAC - Kevin A. Calhoon	CDL - Carol D. Lynn
BTC - Barbara T. Claiborne	LCM - Larry C. McDaniel
JWC - J. Wallace Coffey	BGM - Barbara G. McMahan
ACC - Andrew C. Core	DHM - Don H. Miller
BLC - Brian L. Cross	JWN - Jerry W. Nagel
KHD - Kenneth H. Dubke	TLR - Tommie L. Rogers
LHD - Lillian H. Dubke	BHS - Barbara H. Stedman
WGH - William G. Haley	SJS - Stephen J. Stedman
RJH - R. John Henderson	LAW - Libby A. Wolfe
ARH - Audrey R. Hoff	Gvl TOS - Greeneville Chapter, TOS
JBH - James B. Holt	

EASTERN MOUNTAIN REGION

FJA - Fred J. Alsop	TSM - Tom S. McNeil
JWB - James W. Brooks	JWN - Jerry W. Nagel
MB - Mark Barb	RAP - Rick Phillips
BBC - Bristol Bird Club	GWS - Glen W. Swofford
BLC - Brian L. Cross	JLS - John L. Shumate
JWC - J. Wallace Coffey	LAS - Lorie A. Shumate
DEH - Dan E. Huffine	CFW - C. Frank Ward
RLK - Richard L. Knight	GOW - Gary O. Wallace
HPL - Howard P. Langridge	SW - Shirley Wayland
RPL - Richard P. Lewis	LRHTOS - Lee Herndon Chapter, TOS
TFL - Tom F. Laughlin	TOS - Tennessee Ornithological Society
LCM - Larry C. McDaniel	field trip
RM - Rad Mayfield	

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The Migrant records observations and studies of birds in Tennessee and adjacent areas. Most articles are written by members of the Tennessee Ornithological Society.

SUBMISSIONS: The original and, if feasible, two copies of the manuscript should be sent to the Editor: J.D. Joslin, 112 Newcrest Lane, Oak Ridge, TN 37830. Manuscripts that have been published in other journals should not be submitted.

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NOTICE TO RESEARCHERS AND LIBRARIES

Volume 65, Numbers 1-4, is printed in this single issue, with Volumes 66 and 67 to follow. Volume 68, Number 1, has preceded this issue. Several references in this issue include dates later than the cover date of 1994. The journal is behind schedule and it has been necessary to use material which, in some cases, was submitted and accepted later in the year.

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