SYNOPSIS OF BIRDS KILLED AT THE COWETA, OKLAHOMA, TV TOWER 1974-1984

BY JAMES L. NORMAN

Throughout the months of September and October, especially during inclement nights, many birds migrating southward kill themselves by flying into the 1,909-foot high KTUL television transmitting tower located 2 miles east of Coweta in Wagoner County, northeastern Oklahoma. Each fall since 1974 my wife Marion and I have collected and identified these casualties, then reported our findings (see Norman 1975, 1976, 1977). Our most recent paper (Norman 1982) considered the birds we recovered between 1974 and 1978. The present work updates and summarizes our data through 1984. Detailed information pertinent to each specimen is retained in the author’s files.

NORTHERN ORIOLES

During this study, 1802 birds of 87 species were picked up. Among them were 170 Northern Orioles (Icterus galbula), 155 of them on 16 September 1982, when Jeri McMahon took this photo.
Tower kills are generally considered to be weather-related (see Crawford 1974, 1981). Cold fronts during fall are frequently accompanied by rain, fog, and/or a low cloud ceiling. When these conditions prevail at night, south-flying migrants may fly so low that they collide with tall, man-made structures. Furthermore, winds often change direction from south to north at this season, thereby creating a tail wind that greatly increases the speed with which the birds approach obstructions. This phenomenon has been documented in many states, notably Texas (Peterson and Glass 1946), Kansas (Tordoff and Mengel 1956), Florida (Stoddard and Norris 1967; Crawford 1974, 1981), Iowa (Dinsmore et al. 1983), and Tennessee (Laskey 1969).

Table I presents phylogenetically the total 1974-1984 collection of 1,802 individuals representing 87 species. Numbers of birds killed each week between 22 August and 17 November are given for the entire eleven-year period. The number of species found each fall were: 1974 (41), 1975 (27), 1976 (47), 1977 (29), 1978 (41), 1979 (4), 1980 (4), 1981 (15), 1982 (29), 1983 (0), and 1984 (55). It is hoped that these numbers and dates will establish a basis from which we can predict the relative abundance and approximate dates of passage for these and other species in this part of Oklahoma.

Of the 1,802 birds identified, 800 (44.4% ) were warblers of 22 species. The 239 Nashville Warblers (Vermivora ruficapilla) represented the greatest number of any warbler, followed by the Yellow-rumped (Myrtle) Warbler (Dendroica coronata), 139; Orange-crowned Warbler (Vermivora celata), 98; and Black-and-White Warbler (Mniotilta varia), 61.

Other species recovered in large numbers were the Northern (Baltimore) Oriole (Icterus galbula), 170 (155 on the night of 16 September 1982 alone); Red-eyed Vireo (Vireo olivaceus), 130; Ruby-crowned Kinglet (Regulus calendula), 120; Savannah Sparrow (Passerculus sandwichensis), 58; Gray Catbird (Dumetella carolinensis), 44; and House Wren (Troglodytes aedon), 42.

Several species are noteworthy because of their rarity in the state, and their discovery during the course of this study has made a definite contribution to our knowledge of Oklahoma birdlife. Of special interest are the three Yellow Rails (Coturnicops noveboracensis), two picked up in 1976, one in 1982. The only other specimen known for Oklahoma was taken in 1842 at old Fort Wayne in Delaware County, about 70 miles northeast of Coweta (Tomer 1959).

Six Philadelphia Vireos (Vireo philadelphicus), previously recorded in fall only twice in the state (Wood 1975; Tyler 1979), were found beneath the tower on 9 October 1974, and 30 others in later years. The species apparently passes through Oklahoma in considerable numbers, and is to be looked for between about 12 September and 15 October.

There are other specimens on the list that deserve comment — the one Golden-Winged Warbler (Vermivora chrysoptera), because it is the second specimen for the state; the five Chestnut-sided Warblers (Dendroica pensylvanica) because only one other fall specimen had previously been taken in Oklahoma; the eleven Bay-breasted Warblers (Dendroica castanea) found in 1976 and 1978, because they were the first fall specimens ever collected in the state; and the Golden-crowned Kinglet (Regulus satrapa) of 9 October 1974, which predates the former earliest Oklahoma fall record.
This study could not have been carried out without the aid of certain people. I am especially grateful to Mr. James C. Leake, previous owner of TV station KTUL, who granted us access to the tower. Mr. Otto Harris, technician at the tower throughout the eleven years of the study, has been prompt in telephoning us whenever kills occurred, frequently even gathering and refrigerating the specimens before our arrival.

More than once, after a call from Mr. Harris, neither Marion nor I could leave our work to make the 25-mile drive to the tower. We are much indebted to Jeri McMahon and J. J. Harman and his wife for their invaluable help on these occasions.

And, finally, our sincere thanks to the late George M. Sutton who repeatedly stressed the importance of this project and encouraged us to continue our efforts. It was to him and his associates, Joe Grzybowski and Scott Wood at the Stovall Museum in Norman, that we sent the ice-packed specimens — ants, maggots, and all — for their scrutiny and final species determination. Several of the rarer, more valuable birds were preserved as museum specimens, some as skeletons, and many were discarded. In spite of this deplorable annual loss of our birdlife, Marion and I take a little comfort in the thought that, through our efforts, these birds, even the tiny, silent Winter Wrens (Troglodytes troglodytes), are not entirely wasted.

LITERATURE CITED


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RECENT RECORDS FOR RED KNOT IN OKLAHOMA

BY MITCHELL OLIPHANT

The Red Knot (Calidris canutus) was first observed in Oklahoma at the Great Salt Plains National Wildlife Refuge in Alfalfa County on 19 September 1941. From that date until 26 July 1968, it was recorded eight times at large impoundments in the vicinity of Oklahoma City and once in Bryan County. All but two of these sightings were in late summer and fall. In 1968, John G. Newell reviewed these records (Bull. Oklahoma Orn. Soc. 1:13-16), concluding that the Red Knot was “a rare and irregular migrant in central Oklahoma and probably throughout the open grasslands of the Southern Great Plains from July 26 to October 18,” and that the two spring sightings (probably of the same individual) “suggest that spring occurrence is accidental.” Competent observers from several locations around the state have encountered this species a number of times since July, 1968. This paper annotates known sightings through the