

# *Kansas Ornithological Society*

## BULLETIN

PUBLISHED QUARTERLY

---

Vol. 56

March, 2005

No. 1

---

### **THE WINTER BIRD COUNT FOR 2004**

Calvin L. Cink and Roger L. Boyd<sup>1</sup>

There were 51 winter bird counts conducted this year. The slight decrease in number (from 55) reflected, in part, the ice storm of January that made travel hazardous in some parts of the state. Counts scheduled late in the period had no chance to reschedule. However, slightly fewer participants this year (575 vs. 576 last year) averaged more party hours (34.1 vs. 30.8 hrs. last winter) and more species per count (69 vs. 64). Early winter storms in the Dakotas and mountains to the west may have bolstered our efforts by bringing to Kansas a variety of winter visitants that are only observed infrequently. Weather conditions for most of the count period were mild, with only nine counts reporting below freezing temperatures for the whole count day. Only seven counts (13.7%) reported any measurable snow cover.

The 180 species found this year was an all time high, surpassing the record of 176 set in 1999 (159 average since 1990). Several counts recorded over 100 species; Manhattan (104), Quivira (101), and Wichita (105- highest for the state). Udall-Winfield nearly reached the century mark at 99 species. Twenty-three of the species (12.5%) are represented by single individuals. A Franklin's Gull at Manhattan is the only species seen during the count week but not on the count day. Jetmore had the fewest species with 23. Observers tallied a staggering 13,822,084 individual birds on this count! The honor of highest number of individuals on a count rests with Slate Creek/ Oxford (6,137,740), just edging out Quivira (6,011,841). A million Red-winged Blackbirds (6 million vs. 5 million) made the difference. Estimating such numbers would not be an enviable task! The Red-winged Blackbird was the most abundant species state-wide (11,311,431 individuals), with Snow Goose (both forms 579,730) nudging out European Starling (423,293) for second place.

Five species were recorded for only the first time on a winter count. These included the Cackling Goose (formerly a race of Canada Goose), a Neotropic Cormorant at John Redmond Reservoir (excellent photograph), a Prairie Warbler in Wichita, a Rose-breasted Grosbeak (Wichita) and a Cassin's Finch at Cimarron National Grasslands. Other noteworthy species for this season included three Trumpeter Swans (one at Baldwin City and two at Quivira); two Tundra Swans (Quivira); four Long-tailed Ducks (one at Quivira and three at Waconda Lake); one Osprey (Oskaloosa-Perry); three Goshawks (one each at Eldorado Lake, Hays, and Red Hills); one Sora (Meade); thirty-five Greater Yellowlegs (one each at Red Hills and Wichita and 29 at Quivira); one Spotted Sandpiper (Meade); eighteen Least Sandpipers (six at John Redmond and 12 at Wichita); one California Gull (Manhattan); two Thayer's Gulls (Waconda Lake); one Glaucous Gull (Wichita); three Forster's Terns (Olsburg); two White-winged Doves (one each at Garden City and Sawyer); two Greater Roadrunners (Sawyer); two Eastern Phoebes (one each at Halstead-Newton and Wilson Lake); three Chihuahuan Ravens (two at Cimarron Natl. Grasslands and one at Liberal-Seward Co.); one Common Raven and 34 Bushtits (Cimarron Natl. Grasslands); two Rock Wrens (one each at Cimarron Natl. Grassland and Wilson Lake); two Varied Thrushes (one each at Syracuse and Wichita); one Gray Catbird (Wichita); one Curve-billed Thrasher (Ulysses); one Sprague's Pipit (Udall-Winfield); one Bohemian Waxwing (Red Hills); one Palm Warbler (Olathe);

one Canyon Towhee (Cimarron Natl. Grassland); one Chipping Sparrow (Red Hills); two Vesper Sparrows (two in Manhattan and one in Topeka); one Lark Sparrow (Halstead-Newton); one Golden-crowned Sparrow (Lawrence); eleven Snow Buntings (one at Quivira, nine at Waconda, and one at Wilson Reservoir); seven Pine Grosbeaks (four at Dodge City and three at Wilson Lake); four Common Redpolls (one at Garden City and three at Manhattan); and two Evening Grosbeaks (Garden City).

Only three counts (13.7%) reported completely frozen still water, so the majority had at least partially open water for waterfowl and gulls. Numbers of geese particularly, were exceptional. Greater White-fronted Goose numbers were double the highest count over the past 12 years (355,772 vs. 177,671 in 1998). Snow Goose numbers more than tripled their highest count (579,730 vs. 152,427 in 1997). Ross's Goose numbers increased dramatically over its highest count (17,292 vs. 1,834 in 2003). The 2000 at Quivira alone was more than last year's record total and the 15,000 observed at Waconda Lake is amazing! Ducks that exceeded their highest count over the past 12 years included Northern Shoveler (2259 vs. 2237 in 1999), Greater Scaup (87 vs. 65 in 2001), and Red-breasted Merganser (140 vs. 72 in 2001). Among the gulls only the Herring Gull exceeded its highest count (2737 vs. 2467 last year).

Accipiter hawks were more abundant this winter than they have been for several years. Sharp-shinned Hawks surpassed their maximum number for the past 12 years (124 vs. 123 in 1994) and Coopers Hawks exceeded their maximum count (96 vs. 91 in 2000).

Eurasian Collared Doves continue their rapid increase (1034 this year vs. 656 in 2003 vs. 245 in 2002) and are expanding their range in the state (on 27 counts this year vs. 23 last year). Four counts had 100 or more (200 at Cimarron Natl. Grasslands, 107 at Lakin, 372 at Scott Lake and 184 at Ulysses). Inca Doves exceeded their maximum number for the past 12 years (19 vs. 14 in 2000). Barn Owls were more abundant this winter than they have been for the past decade (48 vs. 31 in 1999) and Lakin accounted for nearly half the total (21). Similarly there appeared to be an abundance of Yellow-bellied Sapsuckers (198 vs. 146 maximum in 1993; average 64 for past 12 years). Another woodpecker that showed an increase was the Pileated Woodpecker (52 vs. 42 maximum in 2000 and 2001).

Several species on the watch list because of severe recent declines showed modest increases this winter. Loggerhead Shrikes showed only a meager increase in numbers this year (66 vs. 63 last year). Similarly, Black-billed Magpies increased slightly (132 vs. 105 last year; but still much below the 361 minimum over the past 12 years). Black-capped Chickadee numbers were up slightly (2170 vs. 1837 last year vs. 3494 minimum for the past decade; still less than half the average 4481).

The 34 Bushtits found in Cimarron Natl. Grasslands represent a new maximum number (previously 15 on the same count last year). The impression that Red-breasted Nuthatches were abundant this winter was confirmed by its presence on 45 of the counts (88%) and its large numbers (430 vs. 387 maximum in 1999). Some counts seemed to have had more than their fair share (Wichita was tops with 105, Hays with 88, and Manhattan with 32). Winter Wrens also exceeded their maximum for the past 12 years (77 vs. 61 in 1999), appearing on half the counts. Even the Brown Creeper, which we usually expect in small numbers on Christmas counts, exceeded its maximum of the past decade (276 vs. 261 in 2001).

Among the thrushes, Townsend's Solitaires were frequently observed this winter and exceeded their highest count for the 1990s (105 vs. 92 in 1996). Three counts observed a dozen or more, including Cedar Bluff (16), Cimarron Natl. Grasslands (12) and Scott Lake (19). The 31 Hermit Thrushes exceeded their highest total as well (previous maximum of 29 in 1998). Northern Mockingbirds were much more numerous than usual (329 vs. 232 in 1996; 12 year average 183) with Arkansas City and Baldwin City each tallying 39 individuals. Among the warblers only the Orange-crowned Warbler showed a sharp increase above its usual early winter totals (12 vs. 3 in 2001).

A few sparrows and finches appeared in higher numbers than usual. Fox Sparrows reached a new high (170 vs. 121 in 1999). The 11 Snow Buntings is a modest increase over the previous maximum (8 in 1996). Purple Finches showed a good gain in numbers over the previous high (562 vs. 327 in 1999). House Finches showed a modest recovery (3,935 vs. 2,430 last year; average for the 1990s however, is still 4,328). Red Crossbills showed up at nine locales this year and 34 individuals is more than twice the average for the past decade. Pine Grosbeaks show up infrequently in Kansas (2 out 14 years) so it shouldn't be too surprising that 7 individuals this winter easily broke the old high count of 4 birds in 1993.

Several Kansas counts submitted to the National Audubon Society's 104th Christmas Bird Count included highest counts for a given species in the United States for the 2003-2004 season. They included: 40,000 Common Mergansers at Waconda Lake, 40 Greater Prairie Chickens at Wilson Reservoir, 22 Lesser Prairie Chickens and 9,334 Horned Larks at Cimarron National Grassland, 3000 American Tree Sparrows and 5,073 Harris's Sparrows at Udall-Winfields and 7,688 Lapland Longspurs at Scott Lake.

**Alma/ Lake Wabaunsee.** 38°56'N 96°17'W. Center as described in 1995. 25 December 2004; 7:30 a.m. to 5:15 p.m.; 19°F to 55°F. Wind SW-W 0-15 mph. Still water partly open, moving water partly open; a.m. partly cloudy, p.m. clear. One observer in 1 party. Total party-hours 9.5 (5 on foot, 4.5 by car) plus 2.5 hours owling. Total party-miles 98 (8 on foot, 90 by car), plus 15 miles owling. Total 49 species; 2,115 individuals.

Dan LaShelle (compiler-238 SW Gage Blvd, Apt 1208, Topeka, KS 66606-2059).

**Arkansas City.** 37°02'N 97°02'W. Center as described in 1978. 26 December 2004; 8:00 a.m. to 5:30 p.m.; 25°F to 56°F. Wind ENE 0-5 mph. Still water frozen, moving water partly frozen; a.m. clear, p.m. partly cloudy. Eight observers in 4 parties. Total party-hours 35 (7.75 on foot, 27.25 by car), plus 2.5 hours owling. Total party-miles 284.75 (8.75 on foot, 276 by car), plus 40 miles owling. Total 83 species; 171,194 individuals.

Wallace Champeny, Dan Kilby, Patty Marlett, Shawn Silliman, Eddie Stegall, Savilla Stegall, Max Thompson, Eugene A. Young (compiler-1707 N 7th St., Arkansas City, KS 67005).

**Baldwin.** 38°47'N 95°16'W. Center as described in 1986. 27 December 2004; 5:30 a.m. to 5:00 p.m.; 27°F to 48°F. Wind S 15mph. Still water partly open, moving water partly open; a.m. partly cloudy, p.m. partly cloudy. Thirteen observers in 7 parties, plus 6 at feeders. Total party-hours 53 (11 on foot, 42 by car), plus 24.5 hours at feeders, 3.5 hours owling. Total party-miles 427 (11 on foot, 416 by car) plus 25 miles owling. Total 80 species; 26,561 individuals.

Richard Bean, Jan Boyd, Roger Boyd (compiler-Biology Department, Baker University, Baldwin City, KS 66006), Bill Busby, John Brockway, Cal Cink, Katharine Kelley, Mike Luck, Gerry Parkinson, Barbara Pressgrove, Martin Pressgrove, Matt Sexson, Larry Williams.

**Black Wolf/ NW Ellsworth Co.** 38°45'N 98°22'W. Center as described in 1993. 8 January 2005; 7:00 a.m. to 5:00 p.m.; 12°F to 32°F. Wind SE 10-25 mph. Snow 2-4 inches. Still water frozen, moving water partly frozen; a.m. cloudy, light snow, p.m. cloudy. Seven observers in 3 parties, plus 1 at feeders. Total party-hours 18 (3 on foot, 15 by car), plus 1 hour at feeders, 1 hour owling. Total party-miles 161 (3 on foot, 158 by car). Total 51 species; 51,944 individuals.

Henry Armknecht, David Klema, Ben Nondorf, Carolyn Nondorf, Ellen Rader, Mike Rader (compiler-P.O. Box 395, Wilson, KS 67490), Roger Schultz.

**Blue Rapids.** 39°41'N 96°38'W. Center as described in 2000. 8 January 2005; 7:00 a.m. to 5:00 p.m.; 1°F to 19°F. Wind S 10 mph. Snow 2 inches. Still water frozen, moving water partly open; a.m. partly cloudy, foggy, p.m. cloudy, foggy. Seven observers in 3 parties, plus 16 at feeders. Total party-hours 24.5 (5 on foot, 19.5 by car), plus 19.75 hours at feeders, 2.75 hours owling. Total party-miles 225 (2.5 on foot, 222.5 by car), plus 24.25 miles owling. Total 67 species; 8,549 individuals.

Doris Burnett, Marian Busey, Warren Buss, Sandy Harding, Donna Hartman, Chod Hedinger, Irwin Hoogheem, Steve Kitchel, Alan Minge, Pat Osborne, Phil Osborne, Lori Parker, Tom Parker (compiler-711 Gypsum St., Blue Rapids, KS 66411), Jeanette Pralle, Lowell Specht, Shirley Specht, Vic Stanley, Norma Stanley, Marti Templeton, Gwen Turner, Jay Turner, Carroll Whiting, Sarah Whiting.

**Bonner Springs/ Lansing.** 39°11'N 94°54'W. Center as described in 1995. 2 January 2005; 7:30 a.m. to 5:00 p.m.; 33°F to 34°F. Wind NE 5-10 mph. Still water open, moving water open; a.m. cloudy, foggy, light rain, p.m. cloudy. Five observers in 3 parties. Total party-hours 26.5 (2 on foot, 24.5 by car), 1.5 hours owling. Total party-miles 344 (2 on foot, 342 by car), plus 5 miles owling. Total 70 species; 13,008 individuals.

Alan Godwin, Galen Pittman (compiler-12042 258th St., Lawrence, KS 66044), John Schukman, Pat St. John, Phil Wedge.

**Camp Naish.** 39°04'N 94°54'W. Center as described in 1982. 20 December 2004; 6:00 a.m. to 5:30 p.m.; 20°F to 50°F. Wind S 10 mph. Still water open, moving water open; a.m. clear, p.m. clear. Nine observers in 1 party. Total party-hours 10 (9 on foot, 1 by car), plus 1 hour owling. Total party-miles 7 (6 on foot, 1 by car), plus 2 miles owling. Total 45 species; 2010 individuals.

Bill Busby, Kyle Gerstner, Ed Hubert, Caleb Morse, Alexis Powell, David Reber, Stan Roth (compiler-532 Oklahoma St., Lawrence, KS 66046-4834), Eric Rundquist, Alan Zimmerman.

**Cedar Bluff.** 38°45'N 99°46'W. Center as described in 1985. 20 December 2004; 7:45 a.m. to 4:00 p.m.; 29°F to 70°F. Wind NW 0-25. Still water open, moving water open; a.m. cloudy, p.m. cloudy. Four observers in 2 parties. Total party-hours 13.25 (5 on foot, 8.25 by car). Total party-miles 157.5 (3.5 on foot, 154 by car). Total 61 species; 5,218 individuals.

Larry Hesed, Mike Rader, Scott Seltman (compiler-RR1, Box 36, Nekoma, KS 67559), Tom Shane.

**Cheyenne Bottoms.** 38°26'N 98°41'W. Center as described in 1977. 17 December 2004; 7:00 a.m. to 3:00 p.m.; 27°F to 52°F. Wind NW 5-15 mph. Still water partly open, moving water partly open; a.m. partly cloudy, p.m. partly clear. Fourteen observers in 8 parties, plus 1 at feeders. Total party-hours 31.5 (4.75 on foot, 26.75 by car). Total party-miles 338.25 (4.25 on foot, 334 by car). Total 81 species; 24,630 individuals.

Rose Alphin, Jeremy Cale, Rachel Gomez, Karl Grover, Helen Hands (compiler-56 NE 40 Road, Great Bend, KS 67530), Larry Hesed, Rod Kennedy, Jerry Ney, Rob Penner, Jane Queal, Lee Queal, Mike Rader, Keith Reif, Gene Schneewis.

**Cimmarron National Grasslands.** 37°07'N 101°52'W. Center as described in 1972. 1 January 2005; 8:00 a.m. to 6:00 p.m.; 31°F to 68°F. Wind W/SW 5-10 mph. Still water open, moving water open; a.m. partly clear, p.m. partly clear. Fifteen observers in 5 parties. Total party-hours 42 (12 on foot, 30 by car). Total party-miles 575 (25 by foot, 550 by car). Total 69 species; 10,784 individuals.

M. Corder, G. Friesen, T. Giddens, N. Hill, T. Leukering, S. Patti (compiler-552 W. Belden Ave., Chicago, IL 60614), M. Rader, L. Smith, R. Smith, M. Thompson, J. Tucker, C. Wood, J. Woodard.

**Dodge City.** 37°46'N 99°58'W. Center as described in 2002. 18 December 2004; 7:45 a.m. to 4:30 p.m.; 35°F to 55°F. Wind NW 15 mph. Still water partly open, moving water partly open; a.m. clear, p.m. partly clear. Ten observers in 5 parties, plus 6 at feeders. Total party-hours 20 (0.5 on foot, 18 by car), plus 9 hours at feeders. Total party-miles 223.25 (0.25 on foot, 223 by car). Total 40 species; 27,749 individuals.

Joyce Davis, Edna Donaghey, Joleen Fromm (compiler-2402 5th Ave., Dodge City, KS 67801), Roberta Harkness, Lorene Kulbiski, Virginia Pennington, Kay Rose, Dennis Sangster, Joan Sangster, Carl Schriener, Douglas Spain, Frances Spain, Bill Sutton, Darrell Tweedy, Rae Tweedy, Judith Young.

**Doniphan County.** 39°52'N 95°17'W. Center as described in 2003. 9 December 2005; 7:30 a.m. to 3:30 p.m.; 31°F to 39°F. Wind W 5 mph. Still water frozen, moving water partly open; a.m. cloudy, p.m. cloudy. Three observers in 1 parties. Total party-hours 8 (1 on foot, 7 by car). Total party-miles 138 (1 on foot, 137 by car). Total 45 species; 1605 individuals.

Bob Antonio, Galen Pittman, John Schukman (compiler-14207 Robin Rd, Leavenworth, KS 66048).

**El Dorado Lake.** 37°51'N 96°52'W. Center as described in 1990. 2 January 2005; 7:30 a.m. to 4:00 p.m.; 44°F to 33°F. Wind N 10-15 mph. Still water open, moving water open; a.m. foggy, light rain, p.m. foggy. Fourteen observers in 3 parties. Total party-hours 21 (3.5 on foot, 17.5 by car) plus 2 hours owling. Total party-miles 215.5 (7.5 on foot, 208 by car) plus 10 miles owling. Total 83 species; 152,985 individuals.

Cheryl Baumeister, Carol Cumberland, Bev DuGay, Marsha Ebaugh, Charley Green, Leon Hicks, Tyler Hicks, Michael Heffron, Bill Langley (compiler-Butler Community College, 901 S Haverhill Rd, El Dorado, KS 67042) Patty Marlett, Anita Rakestraw, Carolyn Schwab, Jim Wilson, Peggy Wilson.

**Emporia.** 38°27'N 96°05'W. Center as described in 1985. 19 December 2004; 7:30 a.m. to 5:30 p.m.; 15°F to 28°F. Wind NW 15-20 mph. Still water partly open, moving water partly open; a.m. clear, p.m. clear. Fourteen observers in 7 parties, plus 2 at feeders. Total party-hours 46 (12 on foot, 34 by car) plus 1 hour at feeders and 1 hour owling. Total party-miles 335.5 (16 on foot, 319.5 by car). Total 77 species; 29,740 individuals.

Genny Agin, Roberta Eichenberg, Jenna Ferguson, Roger Ferguson, Sherry Ferguson, Bill Jensen, Tracey Johnson, Marvin Kuehn, Paul McKnab, Jackie Nooker, Jean Schulenberg (compiler-Rt 2, Box 36, Admire, KS 66830), Barry Smart, Kathleen Tabor, Travis Wright.

Garden City. 37°92'N 100°80'W. Center as described in 1984. 8 January 2005; 8:00 a.m. to 6:15 p.m.; 19°F to 54°F. Wind S-SE 5-25 mph. Still water frozen, moving water frozen; a.m. cloudy, p.m. partly clear. Thirteen observers in 6 parties, plus 18 at feeders. Total party-hours 27.25 (8.25 on foot, 19 by car) plus 27.5 hours at feeders. Total party-miles 198.75 (12.5 on foot, 186.25 by car). Total 60 species; 9,005 individuals.

Dan Baffa, Robert Bohm, Mark Burnt, Barbara Campbell, Cindy Elliott, Cathy Finck, Doug Floto, Mary Floto, Greg Friesen, Carol Geier, Lorraine Graber, Connery Green, John Hobbs, Dan Larson, Barbara McMinimy, Mac McMinimy, Marie Osterbuhr (compiler-1103 Gillespie Place, Garden City, KS 67846), Michael K. Ramsey, Pamela H. Ramsey, Leonard Rich, Bill Saunders, Emaline Scott, Sara Shane, Tom Shane, Nedra Simpkins, Colleen Sternberger, Ardith Stones, Chuck Stones, Robin Valenzuela.

**Halstead-Newton.** 38°04'N 97°28'W. Center as described in 1965. 18 December 2004; 7:00 a.m. to 5:00 p.m.; 24°F to 56°F. Wind NW 0-10 mph. Still water open, moving water open; a.m. partly cloudy, p.m. partly cloudy. Sixteen observers in 6-8 parties. Total party-hours 51.75 (28.5 on foot, 23.25 by car). Total party-miles 260 (23.5 on foot, 236.5 miles by car). Total 75 species; 35,613 individuals.

Bob Dester, Gregg Friesen, Lorna Harder, Alison Hiebert, Harvey Hiebert, Aileen McCune, Cheryl Miller, Jay Newton, Norman Pankratz, Dwight Platt (compiler-702 NE 24th St., Newton, KS 67114), Kamala Platt, Bob Regier, Tim Regier, Carolyn Schwab, Nada Voth, Rodney Wedel.

**Hays.** 38°51'N 99°27'W. Center as described in 1987. 18 December 2004; 8:00 a.m. to 5:00 p.m.; 23°F to 54°F. Wind NW 10-20 mph. Still water partly frozen, moving water open; a.m. partly cloudy, p.m. clear. Twenty-two observers in 8 parties, plus 2 at feeders. Total party-hours 34.75 (18 on foot, 16.75 by car), plus 4 hours at feeders and 2 hours owling. Total party-miles 293 (20 on foot, 273 by car), plus 8.5 miles owling. Total 59 species; 13,140 individuals.

Brian Bartels, David Bender, Earl Carlson, Donna Cooper, Greg Farley (compiler-Department of Biological Sciences, Fort Hays State University, Hays, KS 67601), Elmer Finck, Richard Hayes, John Launchbaugh, Libby Legere, Terry Mannell, Sam Mannell,

Mary Morgan, Robert Nicholson, Frank Potter, Mike Rader, Curtis Schmidt, Jim Schmidt, Jessica Schmidt, Scott Selman, Eric Starkey, Pauly Tobar, Jim Strine, Matt Withroder, Amy Zavala.

**Jetmore.** 38°03'N 99°53'W. Center as described in 1999. 20 December 2004; 7:50 a.m. to 4:30 p.m.; 27°F to 68°F. Wind NW 10–15 mph. Still water partly frozen, moving water open; a.m. clear, p.m. partly cloudy. Two observers in 1 party. Total party-hours 8.75 (0.25 on foot, 8.5 by car). Total party-miles 135.25 (0.25 on foot, 135 by car). Total 23 species; 7837 individuals.

Joyce Davis (compiler-10874 U.S. 50, Dodge City, KS 67801), Joleen Fromm.

**John Redmond Reservoir.** 38°16'N 95°49'W. Center as described in 1993. 18 December 2004; 8:00 a.m. to 5:00 p.m.; 20°F to 53°F. Wind NE 5-20 mph. Still water open, moving water open; a.m. partly cloudy, p.m. clear. Fourteen observers in 6 parties plus 2 at feeders. Total party-hours 36 (13 on foot, 23 by car), plus 9 hours at feeders, 1 hour owling. Total party-miles 285.5 (10 on foot, 275.5 by car), plus 6 miles owling. Total 83 species; 37,751 individuals.

Aaron Baugh, Randy Bodenhammer, Bob Culbertson (compiler-207 Cheyenne, New Strawn, KS 66839), Carol Culbertson, Ken Hall, Tim Menard, Jim Minnerath, Caroline Perry, Don Perry, Frances Ramirez, Marty Ramirez, Deb Reznicek, Ken Reznicek, Kay Scott, Art Swallowell, Dan Williamson.

**Junction City.** 39°00'N 96°53'W. Center as described in 1992. 28 December 2004; 7:30 a.m. to 5:00 p.m.; 36°F to 58°F. Wind S-SW 0-15 mph. Still water partly open, moving water partly open; a.m. clear, p.m. clear. Ten observers in 3 parties. Total party-hours 21.5 (4.5 on foot, 17 by car), plus 1 hours owling. Total party-miles 180.5 (8.5 on foot, 172 by car), plus 20 miles owling. Total 78 species; 17,828 individuals.

Warren Buss, Don Kazmaier, Daryl Michael, Chuck Otte (compiler-613 Tamerisk, Junction City, KS 66441), David Rintoul, Amy Rogers, Wyatt Rogers, Brett Sandercock, Chris Smith, Wilen Welti.

**Kanopolis Reservoir.** 38°37'N 97°57'W. Center as described in 1983. 9 January 2005; 7:00 a.m. to 5:30 p.m.; 34°F to 43°F. Wind SW-NW 5-15 mph. Snow 1-3 inches. Still water partly frozen, moving water partly frozen; a.m. partly cloudy, p.m. partly cloudy. Eight observers in 3 parties. Total party-hours 24 (7.5 on foot, 16.5 by car). Total party-miles 234 (5 on foot, 229 by car). Total 88 species; 32,226 individuals.

Henry Armknecht, Richard Field, Dan Gish, Dan Larson, Jim Malcolm, Richard Martin, Mike Rader (compiler-P.O. Box 395, Wilson, KS 67490), Jethro Runco.

**Kirwin National Wildlife Refuge.** 39°42'N 99°08'W. Center as described in 1994. 18 December 2004; 8:00 a.m. to 3:00 p.m.; 32° to 40°F. Wind NW 8 mph. Still water open, moving water open; a.m. clear, p.m. clear. Twelve observers in 6 parties. Total party-hours 42 (all by car). Total party-miles 336 (all by car). Total 47 species; 11,915 individuals.

Sheri Baker, Terri Baker, John Beim, Bobby Doctor, Joan Hazlett, Marty Hines, Tony Ifland, Dolores Knowles, Craig Mowry (compiler-702 E. Xavier Rd, Kirwin, Kansas 67644), Dave Wangerin, Nancy Wangerin, Kathy Wyrill.

**Lakin.** 37°98'N 101°25'W. Center as described in 1994. 18 December 2004; 8:00 a.m. to 5:30 p.m.; 32°F to 52°F. Wind NW 10-20 mph. Still water open, moving water open; a.m. partly cloudy, p.m. partly cloudy. Fourteen observers in 5 parties. Total party-hours 23.5 (3.5 on foot, 20.25 by car). Total party-miles 213.25 (5.25 on foot, 208 by car). Total 53 species; 20,959 individuals.

Jeff Clouser, Barbara Campbell, Robert Campbell, Doug Floto, Mary Floto, Marie Osterbuhr, Bruce Peters, Bob Price, Grant Ramsey, Pamela Ramsey, Michael Ramsey, Leonard Rich (compiler-1107 E. Johnson St., Garden City, KS 67846), Sara Shane, Tom Shane.

**Lawrence.** 39°00'N 95°18'W. Center as described in 1981. 18 December 2004; 7:30 a.m. to 5:30 p.m.; 33°F to 53°F. Wind NW 0-25 mph. Still water partly frozen, moving water open; a.m. clear, p.m. partly cloudy. Thirty-two observers in 13 parties, plus 6 at feeders.

Total party-hours 105.25 (43.5 on foot, 60.75 by car, 1 by ATV), plus 8.5 hours at feeders, 7.75 hours owling. Total party-miles 592.5 (36.5 on foot, 554 by car, 2 by ATV), plus 30.25 miles owling. Total 94 species; 61,414 individuals.

Bob Antonio, Kelly Barth, Roger Boyd, Kit Carlson, Cal Cink, Mark Corder, Lisa Grossman, Dee Hansen, Eric Hansen, Bill Hays, David Herrin, Susan Iverson, Tom Kreissler, Mick McHugh, Duane Otto, Mona Papes, Gerry Parkinson, Joan Phelan, Galen Pittman (compiler-12042 258th St., Lawrence, KS 66044), Alexis Powell, Stan Roth, Banny Rucker, Bob Rucker, David Seibel, Dawn Sharp, Cynthia Shaw, Ed Shaw, Richard Williams, Pam Wilson, Sarah Winfrey, Joyce Wolf, Ron Wolf.

**Leavenworth-Atchison.** 39°23'N 95°00'W. Center as described in 1992. 26 December 2004; 6:15 a.m. to 4:15 p.m.; 23°F to 41°F. Wind E 10 mph. Still water frozen, moving water partly frozen; a.m. clear, p.m. clear. Two observers in 1 party. Total party-hours 9.5 (2 on foot, 7.5 by car) plus 1 hour owling. Total party-miles 119 (2 on foot, 117 by car), plus 6 miles owling. Total species 60; 26,027 individuals.

Galen Pittman, John Schukman (compiler-14207 Robin Rd., Leavenworth, KS 66048).

**Liberal-Seward County.** 37°08'N 100°50'. Center as described in 1992. 3 January 2005; 8:30 a.m. to 4:30 p.m.; 31°F to 42°F. Wind NE 10 mph. Still water open, moving water open; a.m. cloudy, p.m. cloudy. Three observers in 2 parties. Total party-hours 10 (2 on foot, 8 by car). Total party-miles 90 (3 on foot, 87 by car). Total species 55; 260,238 individuals.

S. Patti (compiler-552 W. Belden Ave., Chicago, IL 60614), Mike Rader, Max Thompson.

**Linn County.** 38°17'N 94°45'W. Center as described in 1982. 19 December 2004; 6:00 a.m. to 5:00 p.m.; 14°F to 24°F. Wind N 11 mph. Still water partly frozen, moving water partly frozen; a.m. clear, p.m. clear. Eleven observers in 5 parties. Total party-hours 38.5 (2.5 on foot, 36 by car) plus 1 hours owling. Total party-miles 311 (3 on foot, 308 by car), plus 5 miles owling. Total 92 species; 20,172 individuals.

Jan Boyd, Roger Boyd (compiler-Biology Dept., Baker University, Baldwin City, KS 66006), Bill Busby, Cal Cink, Jo Cink, Elaine Corder, Mark Corder, Alan Godwin, Mark Land, Barbara Pressgrove, Martin Pressgrove.

**Manhattan.** 39°11'N 96°34'W. Center as described in 1993. 18 December 2004; 5:00 a.m. to 6:00 p.m.; 30°F to 50°F. Wind NW 0-30 mph. Still water partly frozen, moving water open; a.m. partly cloudy, p.m. partly cloudy. Fifty-nine observers in 28 parties, plus 2 at feeders. Total party-hours 146.5 (86.5 on foot, 60 by car), plus 3 hours at feeders, 1.5 hours owling. Total party-miles 711.5 (79.5 on foot, 632 by car), plus 15 miles owling. Total 104 species; 47,371 individuals.

Earl Allen, Robbie Bear, Kenny Brooks, Doris Burnett, Chuck Bussing, Sandy Bussing, Ted Cable, Jack Cully, Elizabeth Dodd, Michael Donnelly, Samantha Elledge, Clyde Ferguson, Marilena Ferguson, Ann Feyerharm, Joy Gordon, Joe Hawes, Chod Hedinger, Mark Hollingsworth, Carol Hoogheem, Hoogy Hoogheem, Cindy Jeffreys, Jeff Jeffreys, Bill Jensen, Loretta Johnson, Russ Japuntich, Steve Kitchel, Ron Klataske, Jim Koelliker, Karl Kosciuch, Roma Lenahan, Mark Mayfield, Barry Michie, Ameila Mohr, Beth Montelone, Marge Muenzenberger, Kirsten Nicolaysen, Jackie Nooker, Ed Olson, Kae Olson, Jack Oviatt, Peter Oviatt, Susan Oviatt, Tim Parker, David Rintoul (compiler-Biology Division, Kansas State University, Manhattan, KS 66506-4901), Judy Roe, Phoebe Samelson, Tom Shields, Amy Sommers, Dave Sommers, Emily Sommers, Michael Strobe, Veronica Taylor, Dana Townsend, Harvard Townsend, Elizabeth Vanderlip, Paul Weidhaas, Ellen Welti, Kim With, Patricia Yeager.

**Meade County.** 37°15'N 100°20'W. Center as described in 1985. 11 January 2004; 7:30 a.m. to 5:30 p.m.; 32°F to 60°F. Wind N 5 mph. Still water partly open, moving water open; a.m. clear, p.m. clear. One observer in 1 party, plus 4 at feeders. Total party-hours 10 (8 on foot, 2 by car), plus 10 hours at feeders. Total party-miles 70 (8 on foot, 62 by car). Total 57 species; 5,289 individuals.

Audrey Flowers, Kristy Flowers, Robin Flowers, Steven Flowers, Thomas Flowers (compiler -P.O. Box 87, Meade, KS 67864-0087).

**Olathe.** 38°54'N 94°51'W. Center as described in 1986. 18 December 2004; 7:00 a.m. to 4:00 p.m.; 33°F to 54°F. Wind NW 15 mph. Still water partly frozen, moving water open; a.m. partly cloudy, p.m. clear. Four observers in 3 parties. Total party-hours 27.5 (5 on foot, 22.5 by car), plus 2 hours owling. Total party-miles 304 (6 on foot, 298 by car), plus 18 miles owling. Total 64 species; 13,582 individuals.

Steve Crawford, David Fischer, Don Weiss (compiler-12100 Cherry Lane, Olathe, KS 66061-8790), Lori Weiss.

**Olsburg.** 39°25'N 96°39'W. Center as described in 1991. 17 December 2004; 7:30 a.m. to 5:00 p.m.; 25°F to 55°F. Wind NW 0-7mph. Still water partly open, moving water partly open; a.m. partly clear, p.m. partly clear. Six observers in 2 parties, plus 4 at feeders. Total party-hours 14 (6 on foot, 8 by car), plus 9 hours at feeders. Total party-miles 115.5 (5 on foot, 110.5 by car). Total 74 species; 16,591 individuals.

Susan Adamchak, Jean Giddis, Carol Hoogheem, Irwin Hoogheem, Ruth Lynn Hooper, Cindy Jeffrey, Gary Jeffrey (compiler-15850 Galilee Rd, Olsburg, KS 66520), Irv Pressler, Twila Pressler, John Wesley.

**Oskaloosa/ Perry Lake.** 39°12'N 95°24'W. Center as described in 1980. 19 December 2004; 7:00 a.m. to 5:30 p.m.; 7°F to 24°F. Wind ENE 10-24 mph. Still water partly open, moving water open; a.m. clear, p.m. clear. Fifteen observers in 6 parties. Total party hours 50.75 (11 on foot, 39.75 by car), plus 1.75 hours owling. Total party-miles 388 (8.75 on foot, 379.25 by car), plus 8.5 miles owling. Total 84 species; 14,575 individuals.

Bob Antonio, Richard Bean, Joanne Brier, Richard Field, Dan Gish, Glen Koontz, Jim Malcolm, Galen Pittman, Marie Plinsky, Banny Rucker, Bob Rucker, John Schukman, David Seibel, Roseanne Smith, Bunnie Watkins (compiler-3212 W 24th Street Terrace, Lawrence, KS 66047).

**Parsons.** 37°30'N 95°15'W. Center as described in 1996. 8 January 2005; 7:00 a.m. to 5:00 p.m.; 28°F to 32°F. Wind S 1-5 mph. Still water partly open, moving water partly open; a.m. partly cloudy, p.m. partly cloudy. Twelve observers in 5 parties. Total party-hours 29 (3.5 on foot, 25.5 by car). Total party-miles 153 (1.5 on foot, 151.5 by car). Total 80 species; 11,621 individuals.

Mavis Brenner, Jim Brumfield, Ellen Cox, Mary Haynes, Lawrence Herbert, Barry Jones, Liz Mangile, Robert Mangile, Paul Milks (compiler- 2621 Chess, Parsons, KS 67357), Ralph Pearce, Vie Thorne, Rick Tucker.

**Pomona Lake.** 38°40'N 95°41'W. Center as described in 1993. 8 January 2005; 8:00 a.m. to 4:30 p.m.; 19°F to 28°F. Wind SW 10 mph. Still water partly open, moving water partly open; a.m. cloudy, p.m. cloudy. Thirteen observers in 4 parties, plus 1 at feeders. Total party-hours 23.5 (3.5 on foot, 20 by car), plus 4 hours at feeders. Total party-miles 187.5 (3.5 on foot, 184 by car). Total 65 species; 10,357 individuals.

Jeffrey Bender (compiler-Pomona State Park, 22900 S. Hwy. 368, Vassar, KS 66543), Kenny Bowman, Bob Culbertson, Matt Gearheart, Alan Godwin, Tom Harmon, Joana Lee, Brad Loveless, Sarah Merrill, Tonilee Rhoades, Carolyn Roller, Dick Roller, Pat St. John, Lisa Weeks.

**Quivira National Wildlife Refuge.** 38°09'N 98°29'W. Center as described in 1972. 14 December 2004; 6:30 a.m. to 5:00 p.m.; 14°F to 42°F. Wind SSW 5-15 mph. Still water partly frozen, moving water open; a.m. clear, p.m. clear. Eighteen observers in 7 parties. Total party-hours 37 (6.5 on foot, 30.5 by car), plus 0.5 hours owling. Total party-miles 303.5 (6.5 on foot, 297 by car), plus 3 miles owling. Total 101 species; 6,011,814 individuals.

Levi Beaver, Lorrie Beck, Wallace Champeny, Bob Gress, Kevin Groeneweg, Mary Pat Haddican, Dan M. Kilby, Dan S. Kilby, Joyce Lent, Patty Marlett, Cheryl Miller, Jay Newton, Rob Penner, Jane Queal, Lee Queal, Mike Rader (compiler-P.O. Box 395, Wilson, KS 67490), Scott Seltman, Max Thompson.

**Red Hills.** 37°13'N 98°42'W. Center as described in 1994. 2 January 2005; 7:30 a.m. to 6:00 p.m.; 30°F to 54°F. Wind S 10-20 mph. Still water open, moving water open; a.m. partly cloudy, p.m. partly cloudy. Nineteen observers in 4 parties. Total party-hours 35.5 (17 on foot, 18.5 by car), plus 2 hours owling. Total party-miles 225 (9 miles on foot, 216 by car), plus 15 miles owling. Total species 90; 15,403 individuals.



Brad Bergstrom, Wallace Champeny, Mark Corder, Elaine Corder, Nate Davis, Kyle Gerstner, Gregg Friesen, Mary Pat Haddican, Pete Janzen (compiler-3137 Mascot, Wichita, KS 67204-4407), Gloria Jones-Wolf, Dan Kilby, Dan Larson, Alexis Powell, Jane Queal, Ben Rogers, Mary Nelle Rogers, Stan Roth, Art Weigand, Amy Zavala.

**Salina.** 38°50'N 97°38'W. Center as described in 1983. 18 December 2004; 7:30 a.m. to 5:00 p.m.; 34°F to 55°F. Wind NW 5-15 mph. Still water partly frozen, moving water open; a.m. partly cloudy, p.m. partly cloudy. Twenty observers in 6 parties plus 2 at feeders. Total party-hours 42.5 (15 on foot, 27.5 by car) plus 2.5 hours at feeders. Total party-miles 403.75 (11.75 on foot, 392 by car). Total 63 species; 10,223 individuals.

Dennis Farres, Kat Farres, David Haight, Kevin Haight, Lori Hall, Savannah Hall, Bob Highgate, Nancy Highgate, Harold Lear (compiler-612 Max Avenue, Salina, KS 67401-6661), Phyllis Miles, Judd Patterson, Shannon Rayl, Patricia Remley, Dave Roy, Kathy Roy, Doug Rudick, Mary Ellen Rudick, Marge Streckfus, John Wachholz, Judy Zanardi.

**Sawyer.** 37°32'N 98°41'W. Center as described in 1979. 8 January 2005; 8:00 a.m. to 5:00 p.m.; 20°F to 35°F. Wind S 5-10 mph. Still water frozen, moving water partly open; a.m. cloudy, p.m. partly clear. Thirteen observers in 6 parties. Total party-hours 23 (11.5 on foot, 11.5 by car) plus 0.5 hours owling. Total party-miles 121 (4 on foot, 117 by car) plus 0.5 miles owling. Total 65 species; 16,865 individuals.

Ken Brunson (compiler-40050 NE 10th St., Pratt, KS 67124), Lee Ann Brunson, Nate Davis, Faye Graff, Chris Hase, Kristen Hase, Bill Hlavachik, Jane Queal, Lee Queal, Amber Robbins, Jack Strait, Bob Wood, Amy Zavala.

**Scott Lake.** 38°35'N 100°56'W. Center as described in 1987. 26 December 2004; 7:40 a.m. to 5:10 p.m.; 18°F to 55°F. Wind S 5 mph. Still water partly frozen, moving water open; a.m. partly cloudy, p.m. partly cloudy. Seven observers in 3-2 parties. Total party-hours 25 (7 on foot, 18 by car). Total party-miles 216 (5 on foot, 211 by car). Total 62 species; 43,325 individuals.

Doug Floto, Mike Ramsey, Pam Ramsey, Leonard Rich, Scott Seltman, Sara Shane and Tom Shane (compilers-1706 Belmont, Garden City, KS 67846).

**Seneca.** 39°47'N 96°05'W. Center as described in 1996. 31 December 2004; 7:15 a.m. to 4:45 p.m.; 26°F to 56°F. Wind NE 0-12 mph. Still water partly open, moving water partly open; a.m. partly cloudy, p.m. partly cloudy. One observer in 1 party. Total party-hours 9.25 (4.25 on foot, 5 by car), plus 1 hour owling. Total-party miles 112 (7 on foot, 105 by car), plus 4.5 miles owling. Total 49 species; 17,135 individuals.

Dan LaShelle (compiler-238 SW Gage Blvd., Apt. 1208, Topeka, KS 66606-2059).

**Slate Creek Wetlands/ Oxford.** 37°15'N 97°15'W. Center as described in 1995. 22 December 2004; 8:00 a.m. to 5:30 p.m.; 25°F to 31°F. Wind N-NE 10-20 mph. Still water partly frozen, moving water open; a.m. cloudy, p.m. cloudy. Six observers in 3 parties. Total party-hours 27.5 (2 on foot, 25.5 by car), plus 2 hours owling. Total party-miles 225 (2 on foot, 223 by car), plus 41 miles owling. Total 78 species; 6,137,740 individuals.

Wallace Champeny, Patty Marlett, Dale Randall, Eddie Stegall, Max Thompson, Eugene A. Young (compiler-1707 N 7th St, Arkansas City, KS 67005).

**Southeast KS Mined Land.** 37°14'N 94°58'W. Center as described in 1992. 1 January 2004; 7:30 a.m. to 4:00 p.m.; 60°F to 67°F. Wind SW 3-15 mph. Still water open, moving water open; a.m. cloudy, light rain, p.m. cloudy, light rain. Ten observers in 4 parties. Total party-hours 26.25 (1 on foot, 25.25 by car), plus 0.75 owling. Total party-miles 174 (1 on foot, 173 by car), plus 11 miles owling. Total 69 species; 6,024 individuals.

Ellen Cox, Cindy Ford, Steve Ford (compiler-Biology Department, Pittsburg State University, Pittsburg, KS 66762), John Hartley, Dave Henness, Larry Herbert, Barry Jones, Dan Larson, Elizabeth Mangile, Robert Mangile.

**Syracuse.** 38°00'N 101°52'W. Center as described in 1994. 19 January 2005; 8:00 a.m. to 5:00 p.m.; 35°F to 68°F. Wind calm. Still water open, moving water open; a.m. clear, p.m. partly cloudy. One observer in 1 party. Total party-hours 8 (1 on foot, 7 by car). Total party-miles 11.5 (0.5 on foot, 11 by car). Total 26 species; 948 individuals.

Mavis Long (compiler-PO Box 871, KS 67878).

**Topeka.** 39°02'N 95°40'W. Center as described in 1972. 18 December 2004; 7:00 a.m. to 5:15 p.m.; 35°F to 54°F. Wind W 6 mph. Still water open, moving water open; a.m. cloudy, p.m. partly cloudy. Twenty-nine observers in 11 parties, plus 7 at feeders. Total party-hours 67 (28 on foot, 39 by car), plus 18 hours at feeders. Total party-miles 440.75 (28.75 on foot, 412 by car). Total 71 species; 18,544 individuals.

Judy Billings, Sandy Bohnsack, Jim Brier, Joanne Brier, Nancy Cole, Walter Cole, Denise Eulert, Dan Gish, Dean Grisell, Gladys Grisell, Gary Haden (compiler-5225 SW 12th St, Topeka, KS 66604), Patsy Hodges, Peg Howard, Scottie Johnson, Dan Larson, Bob Lawson, Richard Martin, Susan Miller, Marilyn Morford, Carol Morgan, Larry Peters, Marie Plinsky, Alan Pollom, Melody Pollom, Joanne Ramberg, Rhonda Simpson, Janeen Walters, Lil Willis, Paul Willis.

**Udall/ Winfield.** 37°16'N 96°59'W. Center as described in 1972. 20 December 2004; 8:00 a.m. to 5:00 p.m.; 21°F to 48°F. Wind N 7 mph. Still water open, moving water open; a.m. clear, p.m. clear. Ten observers in 6 parties, plus 1 at feeders. Total party-hours 48 (6 on foot, 42 by car), plus 1 hour at feeders, 2.5 hours owling. Total party-miles 493 (5 on foot, 488 by car), plus 45 miles owling. Total 99 species; 23,257 individuals.

Betty Anderson, Duane Anderson, Terry Barnett, Wallace Champeny, Kevin Groenewig, Gary Straley, Max Thompson (compiler- 1729 E. 11th Ave., Winfield, KS 67156), Donna Wilt, Robert Wimmer, Gene Young.

**Ulysses.** 37°30'N 101°18'W. Center as described in 1994. 1 January 2005; 8:20 a.m. to 5:10 p.m.; 47°F to 72°F. Wind S 5-15 mph. Still water open; a.m. cloudy, p.m. cloudy. Eight observers in 3 parties. Total party-hours 18 (6.25 on foot, 11 by car). Total party-miles 177.5 (8.5 on foot, 169 by car). Total 51 species; 10,744 individuals.

Sam Guy, Kellye Hart (compiler- PO Box 576, Ulysses, KS 67880), Julie Lund, Marion McGlohon, Michael Ramsey, Sara Shane, Tom Shane, Matt Traster.

**Waconda Lake.** 39°28'N 98°22'W. Center as described in 1992. 15 December 2004; 8:30 a.m. to 5:00 p.m.; 28°F to 46°F. Wind SW 5-20 mph. Still water partly frozen, moving water open; a.m. partly clear, p.m. partly cloudy. Four observers in 3 parties. Total party-hours 22 (3 on foot, 19 by car). Total party-miles 288 (3 on foot, 285 by car). Total 74 species; 210,169 individuals.

Rob Penner, Mike Rader (compiler-P.O. Box 395, Wilson, KS 67490), Scott Seltman, Max Thompson.

**Wakefield.** 39°13'N 96°58'W. Center as described in 1992. 19 December 2004; 7:30 a.m. to 5:00 p.m.; 14°F to 24°F. Wind NE-SE 10-23 mph. Still water partly frozen, moving water partly frozen; a.m. clear, p.m. clear. Six observers in 3 parties, plus 2 at feeders. Total party-hours 22.75 (3 on foot, 19.75 by car), plus 2 hours at feeders, 2.75 hours owling. Total party-miles 201 (3.5 on foot, 197.5 by car), plus 25 miles owling. Total 72 species; 9,795 individuals.

Doris Burnett, Warren Buss, Chod Hedinger, Carol Hoogheem, Irwin Hoogheem, Chuck Otte (compiler-613 Tamerisk, Junction City, KS 66441).

**Webster Reservoir.** 39°25'N 99°24'W. Center as described in 1992. 29 December 2004; 7:00 a.m. to 4:00 p.m.; 30°F to 63°F. Wind S 0-15 mph. Still water partly frozen, moving water frozen; a.m. partly cloudy, p.m. partly cloudy. Three observers in 1 party. Total party-hours 9 (2 on foot, 7 by car). Total party-miles 94 (2 on foot, 92 by car). Total 66 species; 21,878 individuals.

Ellen Rader, Jennifer Rader, Mike Rader (compiler-P.O. Box 395, Wilson, KS 67490).

**Wichita.** 37°41'N 97°21'W. Center as described in 1955. 18 December 2004; 7:00 a.m. to 5:00 p.m.; 33°F to 58°F. Wind NW 8-17 mph. Still water open, moving water open; a.m. cloudy, p.m. partly cloudy. Twenty-four observers in 8 parties, plus 2 at feeders. Total party-hours 63 (37 on foot, 26 by car), plus 8 hours at feeders and 2 hours owling. Total party-miles 350 (33 on foot, 317 by car), plus 14 miles owling. Total 105 species; 53,779 individuals.

Brian Addis, Pat Beckemeyer, Roy Beckemeyer, Walker Butin, Wallace Champeny, Carol Cumberland, Duane Delong, Bev Dugay, Marsha Ebaugh, Rick Goodrick, Harry Gregory, Bob Gress, Kevin Groeneweg, Mike Heaney, Pete Janzen (compiler-3137 Mascot, Wichita, KS 67204-0182), Dan Kilby, Patty Marlett, Jim Mason, Dale Randall, Ben Rogers, Lewis Rogers, Eddie Stegall, Savilla Stegall, Don Vannoy, Sheryl Van Doren.

**Wilson Lake.** 38°56'N 98°34'W. Center as described in 1994. 19 December 2004; 6:30 a.m. to 5:30 p.m.; 18°F to 33°F. Wind E-SE 5-15 mph. Still water partly frozen, moving water open; a.m. clear, p.m. clear. Five observers in 4 parties. Total party-hours 30 (13 on foot, 17 by car). Total party-miles 278 (12 on foot, 266 by car). Total 85 species; 12,799 individuals.

Sam Mannel, Terry Mannel, Rob Penner, Mike Rader (compiler-P.O. Box 395, Wilson, KS 67490), Scott Seltman.

<sup>1</sup>*Biology Department, Baker University, Baldwin City, Kansas 66006*  
(*Calvin.Cink@bakeru.edu and Roger.Boyd@bakeru.edu*)

## AUTUMNAL FORAGING IN FLOODPLAIN TALLGRASS PRAIRIE BY HOUSE WRENS

Calvin L. Cink

*Biology Department, Baker University, PO Box 65*  
*Baldwin City, Kansas 66006 (Calvin.Cink@bakeru.edu)*

The House Wren (*Troglodytes aedon*) is a common summer resident throughout Kansas (Thompson and Ely 1992). The only habitats in which it does not nest apparently are cropland, marshes, and grassland devoid of trees (Busby and Zimmerman 2001). It is most abundant in gallery and attenuated gallery forests on Konza Prairie, but occurs in smaller numbers in isolated woody patches in unburned grassland watersheds (Zimmerman 1993). In the Baker Wetlands Natural Area near Lawrence in Douglas County, the species is confined to riparian woodland along the Wakarusa River and narrow woodland patches along other watercourses. It is not observed in the native tallgrass prairie or restored prairie areas (Cink 1989).

While breeding distribution is well documented, our knowledge of its use of habitats during migration throughout its range is more poorly known, though in prairie areas it is found primarily in riparian forests and scrub (Johnson 1998). This note documents the occurrence of foraging House Wrens in tallgrass prairie habitats during the fall migration.

My observations stem from the placement of 30, eight meter-long drift fences (240 m sampled) through a formerly grazed portion of grassland, equidistant (0.8 km) between the Wakarusa River to the south and 31<sup>st</sup> Street levees to the north, in the Baker Wetlands. These fences, with funnel traps at each end, were erected to intercept the movement of reptiles and amphibians starting in 1992. The traps were opened by 10 April and closed by 10 November each year, a period which encompasses both spring and fall migrations of the House Wren. Only during late summer and autumn did I begin to catch House Wrens. They apparently walked into the traps while they foraged for food on or near the ground next to the fence. Each wren was measured, banded and released.

A 12 year comparison of fall trapping vs. spring trapping since I began collecting data is only meaningful for about half of those years. Prescribed spring burns during some years meant that there was little vegetation (and no cover and insect food) for migrating wrens. In those six years where I could compare trapping results for both the spring and autumn of the same year (correcting for slightly different trapping effort between seasons, as measured in trap days), I found zero captures during spring migration for all years vs. 98 wren captures (mean=15/yr, range 8-22) in fall migration. None were captured during the breeding season. There were eight recaptures several days after first capture (mean= 2 days, range 1-6 days). None of the captured wrens were breeding individuals mist netted previously in woodland habitats. About 65% of the wrens were hatch year individuals (based on degree of skull pneumatization). Four trap casualties provided only a meager sample of food items but it appeared that about 30% of the items (n=8) were small crickets and another 30% were spiders.

House Wrens apparently expand their range of foraging habitats during the fall migration beyond the woodland types they select during the breeding season. While I had no drift fence traps in woodland habitats for more direct comparison of abundance, I monitored migration in shrub and woodland habitat types with mist nets on a fairly regular schedule. The frequency of capture of House Wrens in spring and fall migration (based on number per net hour of effort) was only slightly more in fall than in spring.

The reason for this expanded range of foraging habitats is unknown, but it may be a function of additional food availability in the prairie. There appears to be a greater abundance of arthropod prey available in the prairie in the autumn vs. the spring. It would be worthwhile to quantify this difference. It might be that the pressures of competition from a whole new generation of wrens produced during the previous breeding season causes them to extend their foraging beyond the boundaries of the familiar woodland habitats. It may also be the case that because the Baker Wetlands prairie is sandwiched between wooded House Wren habitats less than a km to the north and south, that this is a unique foraging situation. In the breeding season, wrens have been observed flying out into fields from next boxes along woody edges to forage (E. D. Kennedy, pers. comm.). Only more intensive and long term observations of this phenomenon will resolve the question.

I thank Roger Boyd and Dale Kennedy for their helpful comments on the manuscript.

#### LITERATURE CITED

- Busby, W. H. and J. L. Zimmerman. 2001. Kansas Breeding Bird Atlas. Univ. Press of Kansas, Lawrence, KS.
- Cink, C. L. 1989. Breeding bird populations of a floodplain tallgrass prairie in Kansas. Pg 259-262. In T. B. Bragg and J. Stubbendieck (eds.) Proc. Eleventh N. Amer. Prairie Conference, Univ. Nebraska, Lincoln.
- Johnson, L. S. 1998. House Wren (*Troglodytes aedon*). In *The Birds of North America*, No. 380 (A. Poole and F. Gill, eds.). The Birds of North America, Inc. Philadelphia, PA.
- Thompson, M. C. and C. Ely. 1992. *Birds in Kansas*. Vol. II., Univ. Kansas Mus. Nat. Hist. Publ. Edu. Series No. 12, Lawrence, KS.
- Zimmerman, J. L. 1993. *The Birds of Konza. The avian ecology of the tallgrass prairie*. Univ. Press of Kansas, Lawrence, KS.

2004-KOS Winter Bird Count Table  
Species

	Alma	Arkansas City	Baldwin	Black Wolf	Blue Rapids	Bonner Springs	Camp Naish	Cedar Bluff	Cheyenne Bottoms	Cimarron Natl. Grassld	Dodge City	Doniphan County	El Dorado Lake
Gr. White-fronted Goose	CW	50				1	20	22	3823		CW	50	3
Snow Goose, White form	CW	20	604					5	2905			50	
Blue Form			156					3					
Ross' Goose			2										
Canada Goose	739	2202	2590	40	170	4540	69	900	6936	CW	22514	20	503
Cackling Goose		500	32		2	13		15	1				
Trumpeter Swan			1										
Tundra Swan									16				
Wood Duck						1							
Gadwall	33	22	41			13		52	35	CW			12
Am. Wigeon			10			2		135			28		1
Am. Black Duck													
Mallard	133	108	926		36	74	46	460	2706	1	118	6	62
Blue-winged Teal													
N. Shoveler			1						1898	2	1		57
N. Pintail	1								232				
Green-winged Teal								2	96				
Canvasback	1												
Redhead	CW												
Ring-necked Duck	4	34						1			5		
Greater Scaup	7		46										
Lesser Scaup			6						1				
Long-tailed Duck													
Bufflehead			6					7	20				7
Common Goldeneye	15	40	6		2	165		325	14			6	44
Hooded Merganser	2		2			14		62					6
Common Merganser	CW	3		3	1	225		20				15	14
Red-breasted Merganser													
Ruddy Duck													
duck sp.		3											
Ring-necked Pheasant		27		11	67			2	34	25	12	2	4
Greater Prairie-Chicken	1			87	58								20
Lesser Prairie-Chicken										8			
Wild Turkey	75	163	144	75	120	112	18					3	243
Scaled Quail										88			
N. Bobwhite		CW	29	20	9			2	2	153		1	30
Common Loon													
Pied-billed Grebe		1	1				1		1				
Horned Grebe													
Eared Grebe													
Am. White Pelican									1				
Neotropic Cormorant									1				
Double-crested Cormorant								1	1				
Great Blue Heron	CW	14	3	1		2	2	3	37		2		1
Osprey													
Bald Eagle	CW	27	1	1	9	5	8	10	10			10	10
N. Harrier	8	18	29	11	13	2		6	73	54	15	1	46
Sharp-shinned Hawk		3	1	1	2	1	1	1	1	6	2	1	2
Cooper's Hawk		4	2	2				1	7	2			6
N. Goshawk													1
Accipiter sp.													1
Red-shouldered Hawk										1			1
Red-tailed Hawk	27	141	122	20	20	56	7	15	64	28	12	13	86
Harlan's	1	1	1		3				1				1
Krider's													1
Ferruginous Hawk									2	48			
Rough-legged Hawk	CW				1				5	8	3		5
Buteo sp.					2				2		1		
Golden Eagle	CW												
Am. Kestrel	CW	20	41	11	4	15		4	28	22	9	4	13
Merlin	CW				1				1	4			1
Peregrine Falcon			1						1				
Prairie Falcon	CW	2						2	5	5	1		1
Falco sp.													
Virginia Rail													
Sora Rail								210					
Am. Coot													
Sandhill Crane							1		325				
Killdeer													
Greater Yellowlegs													
Spotted Sandpiper													
Least Sandpiper													
Wilson's Snipe													
Franklin's Gull													
Bonaparte's Gull		4						1					
Ring-billed Gull	CW	175	5			71	2	400	709				252
California Gull													
Herring Gull	CW		2					39	256				16
Thayer's Gull													
Glaucous Gull													
gull sp.								1					
Forster's Tern													
Rock Pigeon	30	216	37	99	20	334	5	29	89	168	448	30	95
Eurasian Collared Dove		3		1	10				9	200	CW	1	
White-winged Dove													
Mourning Dove	CW	41	19	12	22	102	6		2	125	16	28	32
Inca Dove										2			
Greater Roadrunner													
Barn Owl		2						4	3	4			
E. Screech-Owl	2	6	4	3	14	1	1	1	1	1			
Great Horned Owl	5	19	3	3	11	1	2	9	8	10		1	1
Barred Owl	2	28	6		12	2	1						3
Long-eared Owl		4											
Short-eared Owl		1						5		8			
Belted Kingfisher	4	5	3		1	1	3	1	2				2
Red-headed Woodpecker			1			2							1
Red-bellied Woodpecker	13	40	98	12	30	52	17	3	10			32	42
Yellow-bellied Sapsucker	1	10	7		6	2							7
Ladder-backed Woodpecker													
Downy Woodpecker	6	34	76	20	47	54	17	3	14	1		27	40
Hairy Woodpecker	4	3	11	8	10	7	3	1	3	9		1	11

2004-KOS Winter Bird Count Table

Species	Alma	Arkansas City	Baldwin	Black Wolf	Blue Rapids	Bonner Springs	Camp Naish	Cedar Bluff	Cheyenne Bottoms	Cimarron Natl. Grassld	Dodge City	Doniphan County	El Dorado Lake
N. Flicker		39	30	6		5	4	5	21	11			37
Yellow-shafted	18	38	61	3	34	43			15	1	6	10	9
Red-shafted		2	1						19	14	4	1	1
Pileated Woodpecker		3	3				3						
Eastern Phoebe					1				4	11			1
Loggerhead Shrike		3	7										
N. Shrike								1					
Blue Jay	1	52	174	2	53	110	20		10	9	2	34	13
Black-billed Magpie									1	8	5		
Am. Crow	46	162	209	15	1738	218	18	2	12		5	49	97
Chihuahuan Raven										2			
Common Raven										1			
Horned Lark	2	50	97	770	1015	115		352	67	4604	814	90	8
Carolina Chickadee		166											
Black-capped Chickadee	26	166	196	20	100	103	79	4	2			29	51
Tufted Titmouse	8	60	99		13	45	51					14	10
Bushtit										34			
Red-breasted Nuthatch	CW	8	6		1	2		1	2	4	CW		4
White-breasted Nuthatch	10	23	50	34	22	30	20		12	1		16	29
Brown Creeper	CW	15	4	1	2	2	7		1				9
Rock Wren										1			
Carolina Wren	3	52	20		3	21	17		1			4	23
Bewick's Wren		1											
Winter Wren	1	3	2			2	8		3			1	4
Marsh Wren									CW	7			
Golden-crowned Kinglet	2	4	11		5	2	32	1	4				2
Ruby-crowned Kinglet		30	2			2	3		4	1			14
E. Bluebird	26	169	287	8	69	90	37		2	45		14	41
Mountain Bluebird								60					
Townsend's Solitaire					1			16		12			1
Hermit Thrush		3			1	2							
Am. Robin	208	16648	1299	29	446	55	68	19	1	92	2	8	427
Varied Thrush													
Gray Catbird													
N. Mockingbird	CW	39	39	1	1	16	4			1	1		3
Brown Thrasher					1								1
Curve-billed Thrasher										CW			
European Starling	22	15417	14157	746	567	1470	1057	417	407	305	202	170	6852
American Pipit													
Sprague's Pipit													
Bohemian Waxwing													
Cedar Waxwing	17	153	99	32	275	50	129	1	10	973	16		42
Orange-crowned Warbler													2
Y.-rumped Warbler (Audubon's)										2			
Yellow-rumped Warbler	8	45	27	1		20	14		1				5
Prairie Warbler													
Palm Warbler								1	3				
Spotted Towhee		11	1		3								
E. Towhee													
Canyon Towhee										1			
Am. Tree Sparrow	108	92	264	684	664	149		377	464	245	32	132	1184
Chipping Sparrow										2			2
Field Sparrow		5	1		1								
Vesper Sparrow													
Lark Sparrow													
Savannah Sparrow		CW											
LeConte's Sparrow													
Fox Sparrow		2	1		1	7	1						1
Song Sparrow	4	29	12	13	18	12	4		10	36		14	16
Lincoln's Sparrow		1		1	1								2
Swamp Sparrow													
White-throated Sparrow		29	11		2	33	4						
Harris' Sparrow	3	528	49	377	267	27		2	164	4	4	24	338
White-crowned Sparrow		44	21		81	9			12	340	8	1	8
Golden-crowned Sparrow													
Dark-eyed Junco		321	847	145			100	48	75	273			787
White-winged													
Slate-colored	61	241	141	585	957	654			175	55	65	190	68
Oregon			2	2	13	2				15	12		
Pink-sided										4			
Gray-headed													
McCown's Longspur	11	25	3	252	509			1000	540	35	840	20	8
Lapland Longspur										12			
Smith's Longspur													
Chestnut-collared Longspur													
longspur sp.										15			
Snow Bunting													
N. Cardinal	21	290	186	74	294	175	60	4	35		3	43	88
Rose-breasted Grosbeak													
Red-winged Blackbird	74	129855	1801	40495	21	3020		71	339	1272	1241		70012
E. Meadowlark	CW	1	27	1	1	13							1
W. Meadowlark	CW	2		10	1			26	89	195	511	67	33
<i>Sturnella</i> sp.		241	261	320	201	111			525				
Yellow-headed Blackbird										10			
Rusty Blackbird	CW			4		100						1	2
Brewer's Blackbird	CW	207		63	11				16	3			1
Common Grackle		1015	15			3			5	15	5		150
Great-tailed Grackle			12							210			20
Brown-headed Cowbird	275	600	352	6		101		5	155	3			703
blackbird sp.				6325									70000
Pine Grosbeak											4		
Purple Finch	cw	2	67		11	19	5	5	2	9		1	6
Cassin's Finch										1			
House Finch	28	24	71	108	96	121	9		191	212	4	40	5
Red Crossbill		CW											
Common Redpoll													
Pine Siskin	1	2	2	2	32	3		10	8	159	15		
Am. Goldfinch	11	92	167	16	223	96	20	6	99	159	10	50	67
Evening Grosbeak											2		
House Sparrow	6	354	291	352	91	72	8	22	732	369	743	280	112
Total	2115	171194	26561	51944	8549	13008	2010	5218	24630	10784	27749	1605	152985
Species	49	83	80	51	67	70	45	61	81	69	40	45	83

2004-KOS Winter Bird Count Table

Species	Emporia	Garden City	Halstead-Newton	Hays	Jemore	John Redmond	Junction City	Kanopolis	Kirwin	Lakin	Lawrence	Leavenworth-Atchison	Liberal Seward Co.
Gr. White-fronted Goose			290			270		8		100			
Snow Goose, White form	15723	261				14140	64	84	3000	14601	5	9150	
Blue Form		4				4500	20			4	1	9150	
Ross Goose								3					
Canada Goose	3120	544	266	239	311	409	407	2010		2211	3370	445	200
Cackling Goose	6	1		1			5	208			56	1	
Trumpeter Swan													
Tundra Swan													
Wood Duck		70		1									2
Gadwall	3					96	87	19			95		6
Am. Wigeon		106		5		33		1		2			97
Am. Black Duck											1		
Mallard	336	446	95	75	30	4840	296	305	5409	132	637	1	8280
Blue-winged Teal													
N. Shoveler						11					2		12
N. Pintail		7					2	1					
Green-winged Teal	4					12	29	9			30		78
Canvasback													30
Redhead						5			10				
Ring-necked Duck	16					225					11		
Greater Scaup						3							
Lesser Scaup	13					12		2			3		
Long-tailed Duck													
Bufflehead						22	5	7			20		
Common Goldeneye	22					17	165	6049			40	15	18
Hooded Merganser		1				64	4	16			94		
Common Merganser						150	7901	8185			11		1
Red-breasted Merganser						3		3			2		
Ruddy Duck						7							
duck sp.													
Ring-necked Pheasant		26	22	37	20		1	19		40			
Greater Prairie-Chicken	5							205					
Lesser Prairie-Chicken													
Wild Turkey	14		219	47		136	46	126	11		92	8	
Scaled Quail		84											
N. Bobwhite	6	76	40	15		48	13	26	35		1		
Common Loon													
Pied-billed Grebe	2					2	1				CW		
Horned Grebe													
Eared Grebe											1		
Am. White Pelican						510	1	1			2		
Neotropic Cormorant						1							
Double-crested Cormorant						294			3		26		
Great Blue Heron	6	3	4	3		38	41	11	6		13		2
Osprey													
Bald Eagle	9		1			33	57	18	16	1	23	5	
N. Harrier	31	19	8	37	11	34	12	11	17	39	14	1	20
Sharp-shinned Hawk	2	7	2	1			2	11	5	1	11	2	
Cooper's Hawk	3	CW	4	5	1	1		1	1		5	1	1
N. Goshawk				1									
Accipiter sp.									14				
Red-shouldered Hawk													
Red-tailed Hawk	93	49	72	71	6	55	59	37	30	24	148	18	11
Harlan's	4	3				1	1			5	1		1
Krider's													
Ferruginous Hawk		1				2		2		1			2
Rough-legged Hawk	3	7	3	4		3	2	1	2	12			1
Buteo sp.		2	5			3				2			
Golden Eagle									1				
Am. Kestrel	9	14	40	39	6	7	13	21	23	21	43	7	7
Merlin		1	3				1		1	5	CW		
Peregrine Falcon						1							
Prairie Falcon	1	3	1	1	2			2		2	1		
Falco sp.													
Virginia Rail				2			3						
Sora Rail													
Am. Coot	6						1				2		
Sandhill Crane										137			
Killdeer			2								9		2
Greater Yellowlegs													
Spotted Sandpiper													
Least Sandpiper						6							
Wilson's Snipe				4									
Franklin's Gull													
Bonaparte's Gull						3					15		
Ring-billed Gull	1229					740	210	117			6210	10	1
California Gull													
Herring Gull						15	57	46			25		
Thayer's Gull													
Glaucous Gull													
gull sp.									7				
Forster's Tern													
Rock Pigeon	633	312	161	202	3	5	21	15	100	66	1020	160	20
Eurasian Collared Dove		69	2					1		107	1		10
White-winged Dove		1											
Mourning Dove	4	16	62	50		11		37	6	17	188	5	
Inca Dove		12								3			
Greater Roadrunner													
Barn Owl	2									21			
E. Screech-Owl	2		4	6		2	2	2			10	1	
Great Horned Owl	3	14	11	17		6	2	2	3	4	7	1	
Barred Owl	2					2	1				12	2	
Long-eared Owl										1			
Short-eared Owl	2	1				1		2		1			
Belted Kingfisher	2	CW	3	2		1	8	6			7	1	
Red-headed Woodpecker		1							2		1		
Red-bellied Woodpecker	48	5	61	26		40	20	41	4		137	13	3
Yellow-bellied Sapsucker	8	CW	3			3	1	2			23	7	
Ladder-backed Woodpecker													
Downy Woodpecker	26	12	45	28		19	23	23	16	6	107	20	10
Hairy Woodpecker	1	1	9	12		2	2	7	2	1	18	1	2

2004-KOS Winter Bird Count Table  
Species

	Emporia	Garden City	Halstead-Newton	Hays	Jetmore	John Redmond	Junction City	Kanopolis	Kirwin	Lakin	Lawrence	Leavenworth Atchison	Liberal Seward Co.
N. Flicker		6	106	11		12	15	11		3	68	3	4
Yellow-shafted	52	9	35	12		30	25	46	4	1	112	6	
Red-shafted	5	10	19	4		11	8	7		7	12	3	
Pileated Woodpecker	1					4					6		
Eastern Phoebe			1										
Loggerhead Shrike				1		2	1	2	1		1		1
N. Shrike								2	1				
Blue Jay	26	49	40	12		25	11	17	7		87	47	8
Black-billed Magpie		21		16					19	23			
Am. Crow	179	3	49	17		600	60	48	27	1	310	18	1
Chihuahuan Raven													1
Common Raven													1
Horned Lark	85	2379	997	1238	3765	53	92	607	920	589	128	CW	100
Carolina Chickadee													
Black-capped Chickadee	71		59	14		42	38	55	8		289	51	
Tufted Titmouse	25		19			18	8	2			95	33	
Bushtit													
Red-breasted Nuthatch	6	11	4	88		3	7	7		6	11	1	8
White-breasted Nuthatch	13	5	23	8	1	8	15	16	9		40	18	3
Brown Creeper	7		11			11	5	2			16	4	
Rock Wren													
Carolina Wren	9	1	34	1		20	8	9			58	11	
Bewick's Wren	2						2						
Winter Wren	2		1			1		1			1	1	
Marsh Wren				6				1		1	2		
Golden-crowned Kinglet	8		22	8			10	4			16	10	
Ruby-crowned Kinglet	3	5	26			1	3	2			10	3	1
E. Bluebird	39		70			95	80	74			218	46	6
Mountain Bluebird													
Townsend's Solitaire		4	1	1			1			2			
Hermit Thrush			1				1				8		
Am. Robin	1026	297	401	39		420	3127	487	26	16	31200	2	40
Varied Thrush													
Gray Catbird		CW											
N. Mockingbird	7	4	9			8	2	2		1	24	1	
Brown Thrasher			1									2	
Curve-billed Thrasher													
European Starling	2184		2967	7765	14	3500	2515	485	657	313	8100	1150	250000
American Pipit													1
Sprague's Pipit													
Bohemian Waxwing													
Cedar Waxwing	147		214			93	720	125		6	409		42
Orange-crowned Warbler			3										
Y.-rumped Warbler (Audubon's)													
Yellow-rumped Warbler	7		42	3			45	3			76	3	
Prairie Warbler													
Palm Warbler													
Spotted Towhee		1	12				2				1		
E. Towhee						1		1				2	
Canyon Towhee													
Am. Tree Sparrow	229	53	261	388	15	100	319	4698	205	48	325	84	4
Chipping Sparrow													
Field Sparrow	3		3			1		1	5				
Vesper Sparrow													
Lark Sparrow			1										
Savannah Sparrow			1			2	1						
LeConte's Sparrow													
Fox Sparrow		CW	4			3	6				3		
Song Sparrow	24	2	81	72		13	6	43	55	1	10	21	
Lincoln's Sparrow		2		3			2				170	24	
Swamp Sparrow											6		
White-throated Sparrow	1		3			31					47	11	
Harris' Sparrow	89	13	765			80	27	1163	30	1	47	11	3
White-crowned Sparrow	7	450	73		25	59	2	2	2	76	39	10	25
Golden-crowned Sparrow											12	4	
Dark-eyed Junco		454	577	132	8	185		98	34	53	654		30
White-winged											1		
Slate-colored	310	29	575	81		3	237	380		10	50	235	166
Oregon	2	6	2	5			1	3		5			
Pink-sided													
Gray-headed													
McCown's Longspur													
Lapland Longspur	30		935	546	3000			331		269			25
Smith's Lonspur	7												
Chestnut-collared Longspur				1									
longspur sp.									667				
Snow Bunting													
N. Cardinal	85	7	176	21		50	80	122	35		308	51	2
Rose-breasted Grosbeak													
Red-winged Blackbird	2605	75	21857	239	118	290	278	4087	45	890	4345	5015	25
E. Meadowlark	169		12			39		6			1		
W. Meadowlark		131	28	606	239		59	22		258	2	6	200
<i>Sturnella</i> sp.		99	742			21	70	445	312		66		
Yellow-headed Blackbird										1			
Rusty Blackbird								3			27		1
Brewer's Blackbird	25		1000	12				515					28
Common Grackle	40	27	5	6	10		1	1		2	147	20	
Great-tailed Grackle		838								2	80	100	300
Brown-headed Cowbird	270		1517	13	10		30	10	4		14	10	12
blackbird sp.						5000							
Pine Grosbeak													
Purple Finch	8		9	CW		10	66	18	15		33	1	1
Cassin's Finch													
House Finch	101	532	30	161		13	110	83		35	139	14	135
Red Crossbill		CW											
Common Redpoll		1											
Pine Siskin	1	124	19	5			5	1	1	12	3		2
Am. Goldfinch	279	84	149	77		16	59	48	24	33	244	20	32
Evening Grosbeak													
House Sparrow	152	1094	183	597	234	39	82	419	80	681	600	30	380
Total	29740	9005	35613	13140	7837	37751	17828	32226	11915	20959	61414	26027	260238
Species	77	60	75	59	23	83	78	88	47	53	94	60	55



2004-KOS Winter Bird Count Table

Species	Linn County	Manhattan	Meade County	Olathe	Olsburg	Oskaloosa Perry	Parsons	Pomona	Quivira	Red Hills	Salina	Sawyer	Scott Lake
Gr. White-fronted Goose	160	85					30		350000	7		160	
Snow Goose, White form	1098	57	75	3	250	930	4950	217	310000	80	1	90	14
Blue Form	300	5		1	32	385		15	35000	2		90	
Ross' Goose	11	1				5			2200	8			
Canada Goose	2864	5839	2514	3088	1200	851	832	1026	300000	2914	1038	3477	400
Cackling Goose	21	106		8	2	2			177	47	CW	548	
Trumpeter Swan									2				
Tundra Swan									2				
Wood Duck						1	2					2	
Gadwall	203	23		44	50	101	124	2	47	21		2	1
Am. Wigeon	2				11	4	1		46	74			6
Am. Black Duck													
Mallard	6301	1735	175	101	504	4140	415	79	8,451	233	58	116	1226
Blue-winged Teal		3			9								
N. Shoveler	15	44		20	7	1	36		51	2	4		1
N. Pintail	3	2	15			1			237	4			
Green-winged Teal	23	78	10	1	8	86			52	3			1
Canvasback							7		4				
Redhead	2	1			3	1	6		4		12		
Ring-necked Duck	1002	CW				16	10		7	43	2		
Greater Scaup										1		2	1
Lesser Scaup	12	5	7		2	12	11		9				
Long-tailed Duck									1				
Bufflehead	7	4				4			34				
Common Goldeneye	14	137	3	10	2	156	9	80	194	1	4	8	
Hooded Merganser	48	53			5	39		13	8				1
Common Merganser	3	680	1		72	1779	1	520	25	4			
Red-breasted Merganser		CW				97		4					
Ruddy Duck		3					1		70				
duck sp.		8	9		2	2			60	3	16	6	5
Ring-necked Pheasant		10			3		2						
Greater Prairie-Chicken													
Lesser Prairie-Chicken													
Wild Turkey	11	604	48	5	108	162	61	376	127	22	156	250	CW
Scaled Quail													
N. Bobwhite	15	143	4		14		10	39	32	56	19		
Common Loon	2							1					
Pied-billed Grebe	13			1		4	3	1	3		1		
Horned Grebe													
Eared Grebe			1										
Am. White Pelican									3				
Neotropic Cormorant													
Double-crested Cormorant	3	13			7	10		2		1			
Great Blue Heron	7	42		2	2	10	1	1	31	5	2	4	1
Osprey						1							
Bald Eagle	13	99		2	3	30	3	4	54	4			
N. Harrier	23	37	25		18	15	11	28	89	31	14	21	17
Sharp-shinned Hawk	4	7	1	1		5	1	1	6	5	2	2	3
Cooper's Hawk	1	8	4		1	1	1		7		3		1
N. Goshawk										1			
Accipiter sp.							5	1			1		
Red-shouldered Hawk	4						56	74	97	58	35	17	22
Red-tailed Hawk	84	157	16	54	61	116			3	3		1	
Harlan's		6			3	1							
Krieger's									2	2			5
Ferruginous Hawk		1	1				3	1	3	4		1	3
Rough-legged Hawk	1	2	CW			1			3				
Buteo sp.		2	52		5				3		1		
Golden Eagle													
Am. Kestrel	27	36	35	13	4	23	14	9	37	29	42	5	14
Merlin		6	1	1					2	3	1		3
Peregrine Falcon													
Prairie Falcon		1	2		1				2	1	2	2	10
Falco sp.		2											
Virginia Rail			2						1	2			
Sora Rail			1										
Am. Coot	758	2	25	21		20	850		6				
Sandhill Crane									60	2015			
Killdeer	4	24											
Greater Yellowlegs									29	3			
Spotted Sandpiper		1											
Least Sandpiper													
Wilson's Snipe		1								1			
Franklin's Gull		CW											
Bonaparte's Gull	8								10				
Ring-billed Gull	84	452		281	208	343		41	89	16		2	
California Gull		1											
Herring Gull	1	CW			14	45		3	3		4		
Thayer's Gull													
Glaucous Gull													
gull sp.													
Forster's Tern					3								
Rock Pigeon	94	147	CW	864	25	26	41	31	CW	31	451	4	89
Eurasian Collared Dove		2	14					2	6				372
White-winged Dove												1	
Mourning Dove	14	206	16	126	7	54	71	14	29	52	57	4	8
Inca Dove			CW										
Greater Roadrunner												2	
Barn Owl													
E. Screech-Owl	1	6	7	2	1				1	4		2	3
Great Horned Owl	3	15	8	5	2		3		12	1	1	1	6
Barred Owl	2	14		2	1		5					1	
Long-eared Owl		4											
Short-eared Owl	5		CW						7	1			
Belted Kingfisher	6	17	1	6	1	3	1		4	7		3	1
Red-headed Woodpecker	79	2			2	CW	14						
Red-bellied Woodpecker	60	198	9	33	25	105	49	26	27	40	38	15	4
Yellow-bellied Sapsucker	17	30		1	3	22	2	9	9	4	CW	2	1
Ladder-backed Woodpecker													
Downy Woodpecker	48	139	10	33	24	68	21	12	27	29	15	16	15
Hairy Woodpecker	4	35	3	1	6	7	9	3	2	8	2		4

Species	Linn County	Manhattan	Meade County	Olathe	Olsburg	Oskaloosa Perry	Parsons	Pomona	Quivira	Red Hills	Salina	Sawyer	Scott Lake
N. Flicker	44	69	5		5	21	44	11	29	87	10	10	7
Yellow-shafted	69	146		13	19	76		24	37	4	24	5	6
Red-shafted	2	15	1		6	7			3	4	3	7	14
Pileated Woodpecker	10			1			8	1					
Eastern Phoebe													
Loggerhead Shrike	1	2	2			1	5		8	1			
N. Shrike													1
Blue Jay	137	124		66	21	130	103	25	5	7	5		12
Black-billed Magpie													16
Am. Crow	328	13446	15	60	12512	195	132	139	16	685	48	24	
Chihuahuan Raven													
Common Raven													
Horned Lark	38	161	251	10	84		109	44	79	50	88	1360	2216
Carolina Chickadee	1						42			24		4	
Black-capped Chickadee	97	138		81	58	162	31	23	7		36	10	3
Tufted Titmouse	92	102		17	17	69		18		4	2	7	
Bushtit													
Red-breasted Nuthatch	3	34	CW	1	5	10	1	5	12	1	3	3	5
White-breasted Nuthatch	36	123	2	8	13	43	6	12	14	4	10	13	13
Brown Creeper	5	42		2	3	12	1	2	1		3	1	
Rock Wren													
Carolina Wren	25	43		15	4	21	13	2	2	9	7	2	
Bewick's Wren		1	1		1					2			
Winter Wren	1	5			5	1		2		2		1	
Marsh Wren			3				1		5	2			4
Golden-crowned Kinglet	10	37	7	2		14	6			3			
Ruby-crowned Kinglet	3	23		3		2	3		5	10	3	CW	
E. Bluebird	95	308	CW	72	116	251	48	48	45	243	22	7	15
Mountain Bluebird			CW							218			
Townsend's Solitaire		1	5			1			2	3			19
Hermit Thrush		2				2			1				
Am. Robin	10	4050		17	88	306	47	1482	6	2540	307	100	147
Varied Thrush													
Gray Catbird													
N. Mockingbird	16	7	CW	9	1	20	49	5	1	4	1		1
Brown Thrasher		CW					1		1		1		
Curve-billed Thrasher													
European Starling	1860	6786	290	7780	42	252	743	1800	340	693	3679	143	856
American Pipit													
Sprague's Pipit													
Bohemian Waxwing										1			
Cedar Waxwing		135	92	15	2	180	35	78	1	408	43	36	41
Orange-crowned Warbler													
Y.-rumped Warbler (Audubon's)													
Yellow-rumped Warbler	21	43	CW	4	23	9	2	3	1	63	2	2	2
Prairie Warbler													
Palm Warbler				1									
Spotted Towhee		7			4	2			6	1		1	15
E. Towhee											CW		
Canyon Towhee													
Am. Tree Sparrow	347	822	103	6	198	348	354	341	1250	228	22	314	187
Chipping Sparrow										1			
Field Sparrow	3	11	3			2	1	37	4	4			
Vesper Sparrow		2											
Lark Sparrow													
Savannah Sparrow					6		40		6				
LeConte's Sparrow										1			
Fox Sparrow	35	2		2		4	4		6	12			9
Song Sparrow	67	89	96	19	6	18	43	141	77	32	1	73	31
Lincoln's Sparrow	1	5			4		3				1		1
Swamp Sparrow	22					1	27	1	6				
White-throated Sparrow	26	15		18		26	7	16				5	
Harris' Sparrow	55	271	218	3	71	82	45	292	786	451	55	328	17
White-crowned Sparrow	48	26	10	13		8	96	18	164	25		7	
Golden-crowned Sparrow													
Dark-eyed Junco	665		349	354		832	425	416		1983	40		219
White-winged													9
Slate-colored	838	1285	4		254	515		492	826	5	96	653	176
Oregon	7	19			2	7		7	5	5	46	38	61
Pink-sided										2			
Gray-headed													
McCown's Longspur													
Lapland Longspur		10							20	40		3815	35292
Smith's Lonspur													
Chestnut-collared Longspur													
longspur sp.			250		6				30		1		
Snow Bunting									1				
N. Cardinal	147	444	15	80	93	269	184	103	73	185	51	52	19
Rose-breasted Grosbeak													
Red-winged Blackbird	735	4420	245	33	16	231	296	850	5000000	581	186	2971	452
E. Meadowlark	5	30		8		32	386	6	18	1	8		
W. Meadowlark	1	65							9	5	2		78
<i>Sturnella</i> sp.	196	192	144		3	48		55	283	278	185	730	
Yellow-headed Blackbird		15							3				
Rusty Blackbird	7	30				1	7				12	30	
Brewer's Blackbird		147							6	300	100	1002	1
Common Grackle	158	857	21			8	53		8		50	5	
Great-tailed Grackle	1			1			246						
Brown-headed Cowbird	160	139		1			20	301	4	CW	500		
blackbird sp.					8			500			1963		
Pine Grosbeak													
Purple Finch	20	10		2	2	59	1	61	4	4	8	3	
Cassin's Finch													
House Finch	49	252	17	30	16	62	19	139	27	34	43	79	220
Red Crossbill		1				CW							6
Common Redpoll		3											
Pine Siskin		27	3		27				2	61	2	3	73
Am. Goldfinch	83	529	60	29	131	188	66	167	71	174	128	73	46
Evening Grosbeak													
House Sparrow	107	462	43	75	8	212	206	52	8	32	440	92	798
Total	20172	47371	5350	13581	16591	14575	11621	10357	6011814	15403	10223	16865	43325
Species	92	104	57	64	74	84	80	65	101	90	63	65	62

Species	Seneca	Slate Creek Oxford	SE KS Mine Lands	Syracuse	Topeka	Udall Winfield	Ulysses	Waconda Lake	Wakefield	Webster Reservoir	Wichita	Wilson Lake	Totals
Gr. White-fronted Goose	5	CW						725			9		355722
Snow Goose, White form	14500		4		4	33		112000		11000	1		515960
Blue Form	1500							12000		550			63770
Ross' Goose								15000		56		2	17292
Canada Goose	172	157	389		4146	1390	64	1700	472	2500	7437	318	399543
Cackling Goose					3	103				55	162	9	2084
Trumpeter Swan													3
Tundra Swan													2
Wood Duck			2			2					2		104
Gadwall		4	8		194	200		30			94	2	1664
Am. Wigeon		1				205		30		1	45	44	890
Am. Black Duck								1					2
Mallard	14	686	33		568	2064	41	2000	370	4500	1402	609	61379
Blue-winged Teal						1							13
N. Shoveler					5	9	1	CW			79		2259
N. Pintail						4		1					512
Green-winged Teal		2	1			4		9	3	2	166	2	711
Canvasback		7				6					50		105
Redhead	2					16		CW			16		78
Ring-necked Duck		2			50	21		CW			28		1477
Greater Scaup	5										25		87
Lesser Scaup		18				32		3	82		620	4	857
Long-tailed Duck								3					4
Bufflehead		3			6	44		6			89	9	306
Common Goldeneye	19	15			200	48		802	48	28	429	305	9455
Hooded Merganser					10	86		6	24		100	70	728
Common Merganser	10				6			16000	4504	150	3	8	40295
Red-breasted Merganser						31		CW					140
Ruddy Duck						5		1	39		11		137
duck sp.		22											25
Ring-necked Pheasant	8	8				7	11	56	18	16	7	21	612
Greater Prairie-Chicken								28		CW		CW	417
Lesser Prairie-Chicken													8
Wild Turkey			22		57	100		CW	14	2	20	100	3897
Scaled Quail													172
N. Bobwhite	15	16	5		14	83	41	CW	5	1	20	8	1046
Common Loon								2			1		6
Pied-billed Grebe					10	5					19		69
Horned Grebe													0
Eared Grebe						1							3
Am. White Pelican						1				2		1	522
Neotropic Cormorant													1
Double-crested Cormorant						1		4	21		79		466
Great Blue Heron		2	10		1	10		4	2	3	37	7	376
Osprey													1
Bald Eagle	1	19		1	6	7		12	28	12	2	1	555
N. Harrier		80	7			38	39	57	10	9		33	1132
Sharp-shinned Hawk	3	4			2	3	1	1	3		3	3	124
Cooper's Hawk		4			2			4	CW	2	6	2	96
N. Goshawk													3
Accipiter sp.			1			1							20
Red-shouldered Hawk			2										12
Red-tailed Hawk	10	174	56	2	93	180	24	67	46	25	72	63	2943
Hartan's		3			1	1		1	2		2		51
Krider's													1
Ferruginous Hawk							8				1		81
Rough-legged Hawk		2					9		3		1	2	99
Buteo sp.		1	3										84
Golden Eagle									1				4
Am. Kestrel	3	25	27	5	28	49	11	18	5	16	11	43	950
Merlin		1				1		1	1		2	1	43
Peregrine Falcon				1									4
Prairie Falcon		1				2	4	1	1			3	60
Falco sp.		1											5
Virginia Rail												1	11
Sora Rail													1
Am. Coot					155						50	91	2197
Sandhill Crane													2537
Killdeer		CW			1		1	1			32		77
Greater Yellowlegs											3		35
Spotted Sandpiper													1
Least Sandpiper											12		18
Wilson's Snipe		1									8		15
Franklin's Gull													0
Bonaparte's Gull					75	22		37				76	251
Ring-billed Gull		58	116		302	16		3300	120	12	366	174	16111
California Gull													1
Herring Gull								2175	CW	3	16	17	2737
Thayer's Gull								2					2
Glaucous Gull											1		1
gull sp.													262
Forster's Tern					112								3
Rock Pigeon	10	13	37		175	281	75	20	25	79	1031	16	7883
Eurasian Collared Dove	3	1	7	2	5	1	184	3			18		1034
White-winged Dove													2
Mourning Dove	10	31	39		427	110	9	CW	22	35	51	1	2194
Inca Dove				2									19
Greater Roadrunner													2
Barn Owl		5					4		2	1			48
E. Screech-Owl	3	2				3		4		2	10	8	122
Great Horned Owl	3	7	1		4	10	10	2	12	4	5	10	266
Barred Owl	1	7			1	12			4		1		124
Long-eared Owl										1		5	37
Short-eared Owl		4						7					28
Belted Kingfisher		1			3	14		1	2		19		141
Red-headed Woodpecker			56		1			CW	1				166
Red-bellied Woodpecker	8	31	93		65	54		28	20	6	21	15	1717
Yellow-bellied Sapsucker		2	3		6	9		1	3		3		198
Ladder-backed Woodpecker													1
Downy Woodpecker	8	13	35	1	62	44	4	22	39	10	40	14	1427
Hairy Woodpecker	8		10		10	5		4	3	4	6	2	265

2004-KOS Winter Bird Count Table

Species	Seneca	Slate Creek Oxford	SE KS Mine Lands	Syracuse	Topeka	Udall Winfield	Ulysses	Waconda Lake	Wakefield	Webster Reservoir	Wichita	Wilson Lake	Totals
N. Flicker	8	13	78	3	3	21	2		7	1	27	14	916
Yellow-shafted		18			57	46	2	10	19	3	46	24	1218
Red-shafted		5				8	7		6	6	2	3	224
Pileated Woodpecker		2	3			4							52
Eastern Phoebe											1		2
Loggerhead Shrike		1	3			3						1	66
N. Shrike										1		1	7
Blue Jay	3	27	129	7	82	50	4	3	33		53	1	1836
Black-billed Magpie							13			10			132
Am. Crow	15	75	151		69	202	407	3	163	5	23827	27	56428
Chihuahuan Raven													3
Common Raven													1
Horned Lark		237	636		7	212	669	7450	50	130	3	195	33016
Carolina Chickadee		60	88			70							455
Black-capped Chickadee	9				112	62		16	10	16	71	22	2170
Tufted Titmouse	3	26	67		56	35			4		19		1069
Bushtit													34
Red-breasted Nuthatch	1	3	1	1	11	15	5	2	3	3	105	17	430
White-breasted Nuthatch	13	4	12		39	34	1	55	12	9	10	9	901
Brown Creeper	1	4	5		23	26		9	2	1	34	2	276
Rock Wren												1	2
Carolina Wren		8	48		11	30			8	1	48		592
Bewick's Wren						1		1	CW	1		1	14
Winter Wren			8		1				2	5	12	1	77
Marsh Wren											1	1	35
Golden-crowned Kinglet	2	1	3		2	3		5	14	1	16	6	274
Ruby-crowned Kinglet		3	4		20	24		1			62		276
E. Bluebird	6	20	69		133	106		CW	70	1		30	3121
Mountain Bluebird												126	404
Townsend's Solitaire				1			8		1	6	9	10	105
Hermit Thrush						1			4	1	2		31
Am. Robin	5	32	80	9	4371	476	17	16	178	24	1880	131	72702
Varied Thrush				1							1	1	2
Gray Catbird											1		1
N. Mockingbird		6	25		3	16	1				2		329
Brown Thrasher			1			1					6		17
Curve-billed Thrasher							1				6		1
European Starling	154	50665	948	2	4875	5396	96	1500	168	350	10641	1795	423293
American Pipit													1
Sprague's Pipit						1							1
Bohemian Waxwing							CW						1
Cedar Waxwing	21		36	125	160	75	444	30	74	258	115	5	5962
Orange-crowned Warbler									1		6		12
Y.-rumped Warbler (Audubon's)													2
Yellow-rumped Warbler		23	13		7	19			68		99	26	730
Prairie Warbler											1		1
Palm Warbler													1
Spotted Towhee		10				1			2	1	24	8	124
E. Towhee											2		6
Canyon Towhee													1
Am. Tree Sparrow	110	422	11	10	60	1133	284	5100	1218	390	333	2690	27405
Chipping Sparrow													1
Field Sparrow			8		1	19			1		3		121
Vesper Sparrow					1								3
Lark Sparrow		CW											1
Savannah Sparrow		3	9					2				1	71
LeConte's Sparrow													4
Fox Sparrow	1	5	2			12					7	11	170
Song Sparrow	13	7	30		16	148	5	19	12	6	73	27	1708
Lincoln's Sparrow						1			4				36
Swamp Sparrow		1	5			25							138
White-throated Sparrow		1	36		42	1			4		46		415
Harris' Sparrow	10	865	24		30	1496	1	280	227	95	576	108	10393
White-crowned Sparrow		87	133	2		60	302	28	11	12	11	1	2323
Golden-crowned Sparrow													1
Dark-eyed Junco		518	254	12		1314	108	1050			340	150	13850
White-winged													19
Slate-colored	70	649			369	525	22		759	250	714	870	14625
Oregon		17			3	8	6	3	1		1	5	311
Pink-sided													6
Gray-headed		1											1
McCown's Longspur													35
Lapland Longspur			100		60	505	801	25700	115	560	2	1515	76891
Smith's Lonspur													7
Chestnut-collared Longspur							1						2
longspur sp.													969
Snow Bunting								9		1			11
N. Cardinal	25	325	200		150	267	1	25	127	29	159	51	5284
Rose-breasted Grosbeak											1		1
Red-winged Blackbird	251	6000000	713	500	87	1759	5660	1795	88	120	229	1439	11311727
E. Meadowlark		1				5					1	2	773
W. Meadowlark	32					2	292	485	36	150		244	3788
<i>Sturnella</i> sp.		574	276		127	1040			13		33	44	7735
Yellow-headed Blackbird		1											30
Rusty Blackbird	1		40			90						1	357
Brewer's Blackbird		20	4			1036				21		500	5018
Common Grackle		50524	505	61	94	6		2			22		53841
Great-tailed Grackle		3	1			300	5				452		2571
Brown-headed Cowbird		30481	46			123					30	42	35937
blackbird sp.			40										83836
Pine Grosbeak							CW					3	7
Purple Finch	2	3	2	2	1	3			62		6	19	562
Cassin's Finch													1
House Finch	2	9	17	30	116	69	85	4	11	3	138	202	3935
Red Crossbill							6		8		6	7	34
Common Redpoll													4
Pine Siskin		CW	2	25	2	2	30			35	33	93	827
Am. Goldfinch	8	170	125	42	207	435	68	52	103	34	171	72	5313
Evening Grosbeak													2
House Sparrow	48	375	66	100	326	560	844	335	141	250	522	124	14229
Total	17135	6137740	6024	947	18544	23257	10744	210169	9795	21878	53779	12779	1382084
Species	49	78	69	26	71	99	51	74	72	66	105	85	180