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### THE WINTER BIRD COUNT FOR 2005

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

Fifty-three localities conducted counts during the 14 December 2005 to 15 January 2006 count period. Benedictine Bottoms (a new count name and center) in Atchison marks the return of a count which was last conducted in 1985. Fewer participants took to the field in Kansas this winter (562 vs. 575 last year) but logged more average party hours (46.2 vs. 34.1 hrs last winter) with only a slightly smaller average number of species per count (68 vs. 69). Snow and cold temperatures for the counts done in the early December portion of the count period may have decreased both participation and diversity of species observed. Weather conditions for most of the count period however, were mild. Fourteen of the 16 counts that reported below freezing temperatures for the whole count day also had snow on the ground. These 14 were all in the early count period.

The 162 species found this year were considerably less than last year (181) but still higher than the average for the 1990s (159). While last year saw three counts exceed the 100 species threshold, none did this year. Arkansas City (96), Lawrence (97), Slate Creek (96), Udall-Winfield (97) and Wichita (96) however, all came close. Jetmore had the fewest with 22. After recording over 13 million individuals last year, the 3.5 million birds observed this year might seem rather small, but there were many less Red-winged Blackbirds (only 2,343,005 this year compared to 11,311,431 last year). The Canada Goose was the second most abundant species (248,046 individuals) and Lapland Longspurs a distant third (89,776).

There were no species recorded for the first time on a Kansas count but there were some noteworthy discoveries. These included Trumpeter Swans (four each at Benedictine Bottoms and Wilson Lake, two at John Redmond and one at Topeka); four Tundra Swans (John Redmond); eight Cinnamon Teal (Meade Co.); one Long-tailed Duck (Wilson Lake); one apparent Common Goldeneye x Hooded Merganser hybrid (Wichita); one Neotropical Cormorant at John Redmond (details not as convincing as last year's photograph); three Great Egrets (Wichita); two Turkey Vultures (SE Mined Lands); Goshawk (one each at Scott Lake and Wichita); one Sora (Lawrence; good details); one Least Sandpiper (John Redmond); one Iceland Gull (Kanopolis; good details, first Kansas CBC record in 10 years); Greater Roadrunner (one each at Cimarron Natl. Grassland and Sawyer); Eastern Phoebe (one each at Linn Co. and Sawyer; two at Red Hills); one Rock Wren (Cimarron Natl. Grasslands); Gray Catbirds (one each in Blue Rapids and Garden City); Vesper Sparrows (two in Arkansas City and one at Cimarron Natl. Grasslands); Lark Sparrow (one each at El Dorado, SE Mined Lands and Red Hills); and Snow Buntings (one at Hays and 2 at John Redmond).

Only eight counts (15%) reported completely frozen still water, so most had at least partially open water for waterfowl and gulls. In spite of habitat availability, goose numbers were only a third of those last year (491,589 vs. 1,354,371 last year). Numbers of the Greater White-fronted Goose were still higher than their average over the last 15 years (104,507 vs. 61,697 average), but those of the Snow Goose were slightly lower (133,978 vs. 135,581 average). The count for Ross's Goose was a fraction of last year's total (159 vs. 17,292) and only 12%

of its 15-year average of 1365. Most would agree numbers of the Canada Goose were still high and exceed their 15-year average of 207,926. Long term comparisons for the Cackling Goose aren't available but they more than doubled last years count (4829 vs. 2084 in 2004). The Trumpeter Swan was observed on four counts this year and exceeded its highest previous count (11 vs. 9 in 1998). The only duck that exceeded its highest count over the last 15 years was the Cinnamon Teal (8 vs. 6) and all eight were seen on the Meade County count. Most ducks had numbers lower than their 15 year averages. The Blue-winged Teal was markedly so (6 vs. 56 average). A species notable for its absence was the American Black Duck, although its 15-year average is only 1.9. Gull numbers were lower than their 15-year averages. Ring-billed Gulls, for example, were only half as abundant (7976 vs. 15,590 average).

Wild Turkey numbers continue to increase in the state and this year exceeded the previous high count (4057 vs. 3994). Forty-two counts (79%) had turkeys and some had impressive numbers. Quivira reported 827 turkeys and Black Wolf had 428. The Lesser Prairie-Chicken, on the other hand, is rarely counted (5 this year vs. 12.5 for a 15-year average). How much of this is due to a limited range and chance encounters with a limited number of observers is unknown.

Accipiter hawks were slightly less abundant this year but still above their 15-year averages. Among the buteos, only Red-shouldered Hawks exceeded their highest count for the past 15 years (15 vs.13). Most of the other species were slightly below their average counts. Northern Harrier numbers were slightly above their average.

Eurasian Collared Doves continue to increase in Kansas, but at a slower rate than in previous years (1374 vs. 1034 in 2004). Their range expansion continues apace (32 counts this year vs. 27 last year). Three counts had 200 or more (200 at Cimarron Natl. Grassland, 256 at Garden City, and 365 at Scott Lake). White-winged Doves exceeded their highest count over the last 15 years by a wide margin (64 vs. 2 in 2004) and Dodge City had a majority of them (59). Great Horned Owls were unexpectedly scarce this year and dipped below the 15-year minimum count (211 vs. 218 in 2000). While average number of owling hours was lower this year (0.96 vs. 1.55), the average number of miles owling was slightly more (10 vs. 8.5), so count effort was probably not a factor in this decline. This is a species that tends to be observed frequently during regular count hours as well as during owling, so perhaps this decline is real and not an artifact of the way we count. Pileated Woodpeckers showed an increase for the second year in a row and exceeded the maximum count for the past 15-year period (75 vs. 52 in 2004).

Some species on the watch list because of recent severe declines showed slight increases this year. Loggerhead Shrikes, for example, showed a slight improvement (83 vs. 66 in 2004) but were still below the 15-year average (119). Blue Jays increased (from 1836 to 2596) but were still below the mean for the last 15-year period (3284). Black-capped Chickadees numbers were nearly the same as last year (2168 vs. 2170 in 2004). Black-billed Magpies declined to about half the number counted last year (67 vs. 132 in 2004) and the 15-year minimum (105 in 2003). Fewer American Crows were counted this year (17,226 vs. 56,428 in 2004) and their numbers are only slightly above the 15-year minimum (13,990 in 1993).

Two wrens showed increases in their numbers. The 733 Carolina Wrens was the highest count since 1999 (757). Winter Wrens surpassed their 15-year maximum count (104 vs. 77 in 2002). Their mean for that time period was 40. Hermit Thrushes also surpassed their 15-year maximum (45 vs. 21 last year; average is 11). They were not only more abundant this year but were observed on more counts than last year (20 vs. 14). A rather mild count period may have accounted for a large number of Brown Thrashers, which exceeded the 15-year maximum (32 vs. 22 in 1996; average is 10.6).

A few species of sparrows occurred in larger numbers than usual. Field Sparrows exceeded their 15-year maximum (748 vs. 335 in 2002). White-throated Sparrows were also more abundant and exceeded their previous maximum number (667 vs. 635; average is 271). Some observers may have taken time to separate out the forms of Dark-eyed Juncos,

because the Slate-colored form exceeded its previous 15-year high (19,209 vs. 15,090), or they may have simply been more abundant this year. There seems to be a good deal of individuality among birders as to how they record the forms of juncos (if they do at all). The large number of McCown's Longspurs on the Yoder count (1500) was spectacular, and accounted for most of the 1567 individuals that exceeded the previous 15-year high of 806 seen in 1993.

Kansas counts submitted to the National Audubon Society's 105th Christmas Bird Count included 12 of the highest counts for a given species in the United States for the 2004-2005 season. They included: 350,000 for Greater White-fronted Goose at Quivira NWR (an all-time national high count), 345,000 for Snow Goose at Quivira (310,000 of which were the white form; an all time national high count for that form), 15,000 for Ross's Goose at Waconda Lake, 300,000 for Canada Goose at Quivira, 16,000 Common Mergansers at Waconda Lake, 8 Lesser Prairie-Chickens at Cimarron National Grassland (tied with Canadian River, Texas), 48 Ferruginous Hawks at Cimarron Natl. Grassland, 250,000 European Starlings at Liberal-Seward, 5100 American Tree Sparrows at Waconda Lake, 1496 Harris's Sparrows at Udall-Winfield, 35,292 Lapland Longspurs at Scott Lake, and 5,000,000 Red-winged Blackbirds at Quivira NWR.

**Alma/ Lake Wabaunsee.** 38°56'N 96°17'W. Center as described in 1995. 25 December 2005; 7:30 a.m. to 5:15 p.m.; 28°F to 54°F. Wind NW 0-12 mph. Still water partly open, moving water partly open; a.m. clear, p.m. clear. One observer in 1 party. Total party-hours 9.75 (6.5 on foot, 3.25 by car) plus 0.5 hours owling. Total party-miles 71.75 (9.5 on foot, 62.25 by car), plus 2 miles owling. Total 55 species; 2,154 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. 23 December 2005; 8:00 a.m. to 5:30 p.m.; 39°F to 50°F. Wind S 0-14 mph. Still water partly open, moving water open; a.m. partly cloudy, p.m. cloudy. Eleven observers in 4-5 parties. Total party-hours 35.5 (8 on foot, 27.5 by car), plus 2 hours owling. Total party-miles 312.5 (7.5 on foot, 305 by car), plus 43 miles owling. Total 96 species; 245,471 individuals.

Paul Bjornen, Wallace Champeny, Kevin Groeneweg, Patty Marlett, Steve Seibel, Shawn Silliman, Eddie Stegall, Max Thompson, Colton Watters, Bailey Young, Eugene A. Young (compiler-1707 N 7<sup>th</sup> St., Arkansas City, KS 67005).

**Baldwin.** 38°47'N 95°16'W. Center as described in 1986. 18 December 2005; 6:00 a.m. to 5:00 p.m.; 19°F to 20°F. Wind N 5-10mph. Snow 3 inches on ground. Still water partly open, moving water partly open; a.m. light snow, p.m. light snow. Eight observers in 7 parties, plus 1 at feeder. Total party-hours 40 (8 on foot, 32 by car), plus 6 hours at feeders, 2 hours owling. Total party-miles 413 (6 on foot, 407 by car) plus 22 miles owling. Total 82 species; 21,611 individuals.

Jan Boyd, Roger Boyd (compiler-Biology Department, Baker University, Baldwin City, KS 66006), John Brockway, Bill Busby, Cal Cink, Barbara Pressgrove, Martin Pressgrove, Larry Williams.

**Benedictine Bottoms.** 39°36'N 95°08'W. New count. Center at 310th Rd and K-7 Highway north of Atchison, Atchison County, Kansas. 8 January 2006; 8:00 a.m. to 3 p.m.; 30°F to 49°F. Wind W-NW 0-22 mph. Still water open, moving water open; a.m. clear, p.m. cloudy. Five observers in 5 parties plus 3 at feeders. Total party hours 14.5 (4.5 on foot, 10 by car), plus 11.5 hours at feeders. Total party-miles 106 (8 on foot, 98 by car). Total 43 species; 15,359 individuals.

Dan Bowen, Adam Buhman-Wiggs, Cecelia Carpinelli, Judy Lienemann, Alvin Norton, Jan Moore, Janes Moore, Greg Stempion, Roxana Tosterud (compiler- 16021 274th Rd, Atchison, KS 66002).

**Black Wolf/ NW Ellsworth Co.** 38°45'N 98°22'W. Center as described in 1993. 7 January

2006; 8:00 a.m. to 5:00 p.m.; 36°F to 70°F. Wind SW 5-15 mph. Still water open, moving water open; a.m. partly cloudy, p.m. partly cloudy. Eight observers in 2 parties, plus 3 at feeders. Total party-hours 18 (3 on foot, 15 by car), plus 2 hours at feeders, 1 hour owling. Total party-miles 168 (3 on foot, 165 by car). Total 51 species; 8,253 individuals.

Chad Hyman, David Klema, Ben Nondorf, Carolyn Nondorf, Lea Nondorf, Beth Ptacek, Ellen Rader, Ellen Rader, Heather 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. 7 January 2006; 7:00 a.m. to 5:00 p.m.; 32°F to 69°F. Wind N 2 mph. Still water partly open, moving water open; a.m. clear, p.m. clear. Seven observers in 3 parties, plus 11 at feeders. Total party-hours 21 (1 on foot, 20 by car), plus 8 hours at feeders, 5.25 hours owling. Total party-miles 195 (2 on foot, 193 by car), plus 78 miles owling. Total 65 species; 11,473 individuals.

Doris Burnett, Marian Bussey, Jack Haller, Maxine Haller, Chod Hedinger, Irwin Hoogheem, Carol Hoogheem, Ward Minge, Pat Osborne, Phil Osborne, Tom Parker (compiler-711 Gypsum St., Blue Rapids, KS 66411), Jeanette Pralle, Gwen Turner, Jay Turner, Carroll Whiting, Sarah Whiting.

**Bonner Springs/Lansing.** 39°11'N 94°54'W. Center as described in 1995. 18 December 2005; 7:30 a.m. to 5:00 p.m.; 19°F to 21°F. Wind NE 6-8 mph. Still water partly open, moving water partly frozen; a.m. cloudy, p.m. cloudy. Seven observers in 4 parties plus one at feeders. Total party-hours 29.5 (5 on foot, 24.5 by car) plus 1 hour at feeders and 0.5 hour owling. Total party-miles 230 (6 on foot, 224 by car), plus 5 miles owling. Total 78 species; 19,932 individuals.

Mike Cooper, Mark Corder, Hugh Jefferies, Galen Pittman (compiler-12042 258th St., Lawrence, KS 66044), John Schukman, David Seibel, Dwight Standford.

**Camp Naish.** 39°04'N 94°54'W. Center as described in 1982. 19 December 2005; 6:00 a.m. to 4:00 p.m.; 12°F to 26°F. Wind SW 5 mph. Snow 3 inches. Still water frozen, moving water partly open; a.m. clear, p.m. clear. Eight observers in 1 party. Total party-hours 8 (7 on foot, 1 by car), plus 1 hour owling. Total party-miles 6 (5 on foot, 1 by car), plus 2 miles owling. Total 50 species; 1687 individuals.

Joe Blount, Scott Campbell, Jennifer Delisle, George Pisani, Stan Roth (compiler-532 Oklahoma St., Lawrence, KS 66046-4834), Eric Rundquist, Terry Swope, Alan Zimmerman.

**Cedar Bluff.** 38°47'N 99°47'W. Center as described in 1985. 28 December 2005; 8:00 a.m. to 5:00 p.m.; 33°F to 60°F. Wind-Variable 0-10mph. Still water open, moving water open; a.m. clear, p.m. clear. Seven observers in 3 parties. Total party-hours 21 (6 on foot, 15 by car). Total party-miles 256.5 (4.5 on foot, 252 by car). Total 77 species; 16,643 individuals.

Henry Armknecht, Larry Hesed, Chuck Otte, Mike Rader, Scott Seltman (compiler-RR1, Box 77, Larned, KS 67550), Steven Seltman, Tom Shane.

**Cheyenne Bottoms.** 38°26'N 98°41'W. Center as described in 1977. 19 December 2005; 8:30 a.m. to 4:00 p.m.; 18°F to 23°F. Wind S 0-12 mph. Snow 6 inches. Still water partly open; a.m. cloudy, p.m. cloudy. Twelve observers in 6 parties, plus 3 at feeders. Total party-hours 19.75 (4.75 on foot, 15 by car) plus 3-hours at feeders. Total party-miles 207 (3 on foot, 204 by car). Total 62 species; 30,246 individuals.

Carol Grover, Karl Grover, Don Halbower, Helen Hands (compiler-56 NE 40 Road, Great Bend, KS 67530), Larry Hesed, Gordon Jones, Ron Kennedy, Jerry Ney, Rob Penner, Keith Reif, Gene Schneewis, Pam Wornkey.

**Cimmarron National Grasslands.** 37°07'N 101°52'W. Center as described in 1972. 31 December 2005; 7:00 a.m. to 6:00 p.m.; 28°F to 65°F. Wind 0-10 mph. Still water open, moving water open; a.m. clear, p.m. clear. Sixteen observers in 5-6 parties. Total party-hours 40 (15 on foot, 25 by car), plus 1 hour owling. Total party-miles 380 (25 by foot, 355 by car), plus 7 miles owling. Total 71 species; 6207 individuals.

H. Armknecht, K. Groeneweg, L. Groenweg, P. Hammer, S. Patti (compiler-552 W. Belden Ave., Chicago, IL 60614), Scott Seltman, Steven Seltman, D. Seltman, L. Smith, R. Smith, M. Thompson, J. P. Valentik, J. Vanbebber, D. Wiggins, T. Wiggins, J. Woodard.

**Dodge City.** 37°46'N 99°58'W. Center as described in 1985. 26 December 2005; 7:45 a.m. to 4:30 p.m.; 39°F to 60°F. Wind SW 10 mph. Still water open, moving water open; a.m. partly cloudy, p.m. clear. Three observers in 2 parties, plus 2 at feeders. Total party-hours 10.45 (10.45 by car only), plus 8.5 hours at feeders. Total party-miles 153 (153 by car only). Total 30 species; 3840 individuals.

Joyce Davis, Joleen Fromm (compiler-200 Campus Drive, 1B, Dodge City, KS 67801), Kay Rose, Douglas Spain, Frances Spain.

**Doniphan County.** 39°52'N 95°17'W. Center as described in 2003. 7 January 2006; 7:15 a.m. to 4:30 p.m.; 24°F to 58°F. Wind S 5 mph. Still water partly frozen, moving water open; a.m. partly cloudy, p.m. clear. Five observers in 3 parties. Total party-hours 23.5 (2.5 on foot, 21 by car) plus 1 hour owling. Total party-miles 267.75 (1.75 on foot, 266 by car) plus 8.5 miles owling. Total 50 species; 8753 individuals.

Donna Chance, Galen Pittman, Tommie Rogers, John Schukman, Mike Stewart (compiler- 1100 Wellington Drive, Leavenworth, KS 66048).

**El Dorado Lake.** 37°51'N 96°52'W. Center as described in 1990. 31 December 2005; 8:00 a.m. to 4:00 p.m.; 35°F to 50°F. Wind W 10 mph. Still water open, moving water open; a.m. clear, p.m. clear. Seven observers in 2 parties. Total party-hours 16 (3 on foot, 13 by car) plus 1 hours owling. Total party-miles 154 (3 on foot, 151 by car) plus 10 miles owling. Total 73 species; 6,582 individuals.

Bev DuGay, Marsha Ebaugh, Tom Ewert, Charley Green, Bill Langley (compiler-Butler Community College, 901 S Haverhill Rd, El Dorado, KS 67042) Patty Marlett, and Art Weigand.

**Emporia.** 38°27'N 96°05'W. Center as described in 1985. 18 December 2005; 7:30 a.m. to 4:30 p.m.; 19°F to 28°F. Wind NNE 5 mph. Snow 3.5 inches. Still water partly open, moving water partly open; a.m. cloudy, light snow, p.m. cloudy light snow. Eleven observers in 6 parties. Total party-hours 34.5 (10.5 on foot, 24 by car). Total party-miles 277.5 (10 on foot, 267.5 by car). Total 75 species; 19,676 individuals.

Doug Carlson, Jenna Ferguson, Roger Ferguson, Sherry Ferguson, Bill Jensen, Marvin Kuehn, Paul McKnab, Jackie Nooker, Jean Schulenberg (compiler-Rt 2, Box 36, Admire, KS 66830), Barry Smart, Kathleen Taber.

**Garden City.** 37°55'N 100°47'W. Center as described in 2001. 7 January 2006; 7:00 a.m. to 6:00 p.m.; 28°F to 75°F. Wind WSW 7-18 mph. Still water open, moving water open; a.m. clear, p.m. clear. Twelve observers in 7 parties, plus 23 at feeders. Total party-hours 28.25 (9 on foot, 19.25 by car) plus 41.75 hours at feeders. Total party-miles 191.5 (10 on foot, 181.5 by car). Total 60 species; 9,810 individuals.

Robert Bohm, Debra Bolton, Barbara Campbell, Bob Campbell, Cindy Elliott, Jeff Elliott, Cathy Finfrock, Hank Finfrock, Doug Floto, Mary Floto, Lorraine Graber, Oscar Kunz, Art Nonhof, Marie Osterbuhr (compiler-1103 Gillespie Place, Garden City, KS 67846), Michael K. Ramsey, Pamela H. Ramsey, Leonard Rich, Bill Saunders, Emaline Scott, Kathy Sexson, Mark Sexson, Sara Shane, Tom Shane, Nedra Simpkins, Ray Stareck, Chuck Stones, Robin Valenzuela.

**Halstead-Newton.** 38°04'N 97°28'W. Center as described in 1970. 17 December 2005; 7:15 a.m. to 5:15 p.m.; 28°F to 32°F. Wind NW 0-8 mph. Snow 1-3 inches. Still water frozen, moving water partly frozen; a.m. cloudy, light-heavy snow, p.m. cloudy, light-heavy snow. Fifteen observers in 6 parties. Total party-hours 49.25 (20.25 on foot, 29 by car). Total party-miles 248 (17.25 on foot, 230.75 miles by car). Total 60 species; 17,096 individuals.

Marion Deckert, Bob Dester, Gregg Friesen, Alison Hiebert, Greta Hiebert, Harvey Hiebert, Aileen McCune, Jay Newton, Jim Nickel, Norman Pankratz, Dwight Platt (compiler-702 NE 24th St., Newton, KS 67114), Kamala Platt, Michael Unruh, Nada Voth, Rodney Wedel (Kauffman Museum, sponsor).

**Hays.** 38°51'N 99°27'W. Center as described in 1987. 17 December 2005; 8:00 a.m. to 4:00 p.m.; 19°F to 25°F. Wind SW 15-20 mph. Still water partly frozen, moving water open;

a.m. snow, p.m. partly cloudy. Twenty-two observers in 8 parties, plus 2 at feeders. Total party-hours 46 (28 on foot, 18 by car), plus 4 hours at feeders and 2 hours owling. Total party-miles 190.5 (23.5 on foot, 167 by car), plus 8.5 miles owling. Total 57 species; 24,753 individuals.

Henry Armknecht, Brian Bartels, Earl Carlson, Greg Farley (compiler-Department of Biological Sciences, Fort Hays State University, Hays, KS 67601), Andree Farley, Elmer Finck, John Launchbaugh, Karl Launchbaugh, Libby Legere, Sam Mannell, Terry Mannell, Robert Nicholson, Curtis Schmidt, Matt Sexson, Bill Stark, Brian Stawinski, Sherri Stawinski, Jim Strine, Kyle Tutak, Amy Zavala.

**Ingalls/ Cimarron.** 37°50'N 100°27'W. Center as described in 2002. 2 January 2006; 7:45 a.m. to 5:45 p.m.; 34°F to 57°F. Wind NW-SSW 0-12 mph. Still water open, moving water open; a.m. clear, p.m. partly cloudy. Three observers in 2 parties. Total party-hours 13.25 (3 on foot, 10.25 by car). Total party-miles 176 (6 on foot, 170 by car). Total 42 species; 7,033 individuals.

Doug Floto, Dan LaShelle (238 SW Gage Blvd, Apt 1208, Topeka, Kansas 66606-2059), Marie Osterbuhr.

**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 22 species; 3422 individuals.

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

**John Redmond Reservoir.** 38°27'N 95°82'W. Center as described in 1993. 17 December 2005; 7:30 a.m. to 5:00 p.m.; 25°F to 27°F. Wind ENE 6-12 mph. Still water frozen, moving water partly open; a.m. partly cloudy, light snow, p.m. partly clear. Fifteen observers in 5 parties. Total party-hours 36.5 (12 on foot, 24.5 by car), plus 2 hours owling. Total party-miles 198 (11.5 on foot, 186.5 by car), plus 22 miles owling. Total 90 species; 11,883 individuals.

Steve Barlow, Nancy Bodenhammer, Randy Bodenhammer, Bob Culbertson (compiler-207 Cheyenne, New Strawn, KS 66539), Carol Culbertson, Pat Gonzales, Helene Hall, Ken Hall, Tim Menard, Jim Minnerath, Frances Ramirez, Marty Ramirez, Kay Scott, Art Swalwell, Dan Williamson.

**Junction City.** 39°00'N 96°53'W. Center as described in 1992. 26 December 2005; 7:30 a.m. to 5:00 p.m.; 33°F to 64°F. Wind W-SW 0-12 mph. Still water partly open, moving water partly open; a.m. clear, p.m. clear. Eleven observers in 5 parties. Total party-hours 30.5 (8.75 on foot, 21.75 by car). Total party-miles 290 (9.5 on foot, 290.5 by car). Total 80 species; 23,641 individuals.

Henry Armknecht, Warren Buss, Chod Hedinger, Jacob Keating, Jeff Keating, Joshua Keating, Dan Larson, Chuck Otte (compiler-613 Tamerisk Drive, Junction City, KS 66441), Jaye Otte, David Rintoul, Brett Sandercock.

**Kanopolis Reservoir.** 38°37'N 97°57'W. Center as described in 1983. 8 January 2006; 7:30 a.m. to 5:30 p.m.; 36°F to 60°F. Wind NW 25 mph. Still water open, moving water open; a.m. clear, p.m. partly cloudy. Eight observers in 3-5 parties. Total party-hours 24 (7 on foot, 17 by car), plus 0.5 hours owling. Total party-miles 262 (6 on foot, 256 by car), plus 1 mile owling. Total 71 species; 15,301 individuals.

Richard Field, Dan Gish, Jim Malcolm, Sam Mannell, Terry Mannell, 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. 31 December 2005; 8:00 a.m. to 12:30 p.m.; 26° to 46°F. Wind SSE 0-5 mph. Still water partly open, moving water open; a.m. cloudy, p.m. partly cloudy. Eight observers in 5 parties. Total party-hours 19.5 (all by car). Total party-miles 171 (all by car). Total 39 species; 7045 individuals.

Sherry Baker, Terri Baker, John Beim, Joan Hazlett, Marty Hines, Deb Robinson, Janice Rose, Dave Wangerin, Nancy Wangerin (compiler-PO Box 96, 313 Center Street, Agra, KS 67621).

**Lawrence.** 39°00'N 95°18'W. Center as described in 1981. 17 December 2005; 7:30 a.m. to 5:45 p.m.; 20°F to 24°F. Wind NE 4-8 mph. Still water partly open, moving water partly open;

a.m. cloudy, light snow, p.m. cloudy, light snow. Thirty-three observers in 13 parties, plus 4 at feeders. Total party-hours 96.5 (37.75 on foot, 58.75 by car), plus 9 hours at feeders, 6.5 hours owling. Total party-miles 525.5 (32.5 on foot, 493 by car), plus 52 miles owling. Total 97 species; 42,659 individuals.

Bob Antonio, Kelly Barth, Roger Boyd, Bill Busby, Kit Carlsen, Cal Cink, Mark Corder, Lisa Grossman, Dee Hansen, Eric Hansen, Bill Hays, David Herrin, Tom Kreissler, William Miller, Anna Otto, Duane Otto, Gerry Parkinson, William Patt, Galen Pittman (compiler-12042 258th St., Lawrence, KS 66044), David Reber, Sara Riggs, Stan Roth, Banny Rucker, Bob Rucker, David Seibel, Dawn Sharp, Cynthia Shaw, Ed Shaw, Carolyn Trowbridge, Diane Weaver, Joyce Wolf, Ron Wolf, Alan Zimmerman.

**Leavenworth-Atchison.** 39°23'N 95°00'W. Center as described in 1992. 31 December 2005; 7:00 a.m. to 5:00 p.m.; 24°F to 45°F. Wind W 15 mph. Still water partly open, moving water open; a.m. clear, p.m. partly clear. Six observers in 3 parties. Total party-hours 924 (4.5 on foot, 19.5 by car) plus 1 hour owling. Total party-miles 235 (4 on foot, 231 by car), plus 7 miles owling. Total species 64; 19,596 individuals.

Dave Fischer, Galen Pittman, John Schukman (compiler-14207 Robin Rd., Leavenworth, KS 66048), Mike Stewart, Phil Wedge, Roy Wedge.

**Liberal-Seward County.** 37°08'N 100°50'. Center as described in 1992. 2 January 2006; 7:45 a.m. to 5:00 p.m.; 28°F to 42°F. Wind S 5-10 mph. Still water open, moving water open; a.m. clear, p.m. partly clear. Four observers in 2 parties. Total party-hours 17 (3 on foot, 14 by car), plus 0.5 hours owling. Total party-miles 95 (5 on foot, 90 by car), plus 1 mile owling. Total species 75; 201,986 individuals.

Henry Armknecht, Kevin Groeneweg, Laura Groeneweg, S. Patti (compiler-552 W. Belden Ave., Chicago, IL 60614).

**Linn County.** 38°17'N 94°45'W. Center as described in 1982. 30 December 2005; 6:15 a.m. to 5:30 p.m.; 42°F to 56°F. Wind W 5-10 mph. Still water open, moving water open; a.m. partly clear, p.m. partly cloudy. Fourteen observers in 5 parties. Total party-hours 43.75 (6.5 on foot, 37.25 by car) plus 2 hours owling. Total party-miles 403 (7 on foot, 396 by car), plus 23 miles owling. Total 93 species; 9,137 individuals.

Jan Boyd, Roger Boyd (compiler-Biology Dept., Baker University, Baldwin City, KS 66006), Cal Cink, Jo Cink, Matt Gearheart, Mark Land, Mick McHugh, Aaron Mitchell, Galen Pittman, Barbara Pressgrove, Martin Pressgrove, Nelson Romano, Jr., John Schukman, Terry Swope.

**Manhattan.** 39°11'N 96°34'W. Center as described in 1993. 17 December 2005; 5:00 a.m. to 5:00 p.m.; 20°F to 24°F. Wind NE 15-20 mph. Snow 2-6 inches. Still water frozen, moving water partly frozen; a.m. light snow, p.m. light snow. Fifty-three observers in 26 parties, plus 6 at feeders. Total party-hours 99 (58.5 on foot, 40.5 by car), plus 17 hours at feeders, 1 hour owling. Total party-miles 506.5 (53.5 on foot, 453 by car), plus 12 miles owling. Total 87 species; 25,438 individuals.

Susan Adamchak, Earl Allen, Doris Burnett, Chuck Bussing, Warren Bussing, Ted Cable, Jack Cully, Meghan Dinkins, Elizabeth Dodd, Michael Donnelly, Irmie Fallon, Clyde Ferguson, Lena Ferguson, Ann Feyerharm, Annette Figuered, Fred Freeman, Pat Freeman, Gail Hawes, Joe Hawes, Chod Hedinger, Lowell Johnson, Richard Johnson, Tracey Johnson, Robb Kaler, Ron Klatske, Jim Koelliker, Karl Kosciuch, Roma Lenehan, Brandon Magette, Mark Mayfield, Barry Michie, Beth Montelone, Marge Muenzenberger, Jackie Nooker, Tim Parker, Tom Parker, David Rintoul (compiler-Biology Division, Kansas State University, Manhattan, KS 66506-4901), Judy Roe, Brett Sandercock, Marla Shoemaker, Chris Smith, Ann Smith, Gerry Snyder, Dean Stramel, Michael Strobe, Elizabeth Vanderlip, Ron VonNimWegen, Lisa Weeks, Ellen Welti, Kim With, Valerie Wright, Patricia Yeager, Tammi Yeager.

**Meade County.** 37°15'N 100°20'W. Center as described in 1985. 21 December 2005; 7:30 a.m. to 5:00 p.m.; 22°F to 50°F. Wind N 5 mph. Snow 3 inches. Still water partly open, moving water open; a.m. clear, p.m. clear. Three observers in 2 parties, plus 5 at feeders. Total

party-hours 11.5 (7 on foot, 4.5 by car), plus 10 hours at feeders, 2 hours owling. Total party-miles 73.5 (8.5 on foot, 65 by car) plus 26 miles owling. Total 65 species; 5,678 individuals.

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

**Olathe.** 38°54'N 94°51'W. Center as described in 1986. 17 December 2005; 7:00 a.m. to 4:30 p.m.; 22°F to 28°F. Wind N 0-5 mph. Still water partly open, moving water partly frozen; a.m. cloudy, p.m. cloudy. Five observers in 6 parties. Total party-hours 37.5 (22.5 on foot, 15 by car), plus 2 hours owling. Total party-miles 229.5 (19.5 on foot, 210 by car), plus 18 miles owling. Total 72 species; 6,118 individuals.

Steve Crawford, David Fischer, Harry McDonald, Terry Swope, Don Weiss (compiler-12100 Cherry Lane, Olathe, KS 66061-8790).

**Olsburg.** 39°25'N 96°39'W. Center as described in 1991. 16 December 2005; 7:30 a.m. to 5:00 p.m.; 22°F to 38°F. Wind NW 5-10mph. Still water frozen, moving water partly open; a.m. clear, p.m. partly cloudy. Six observers in 2 parties, plus 4 at feeders. Total party-hours 15 (4 on foot, 11 by car), plus 8 hours at feeders and 1 hour owling. Total party-miles 101 (3 on foot, 98 by car), plus 4 miles owling. Total 76 species; 5,225 individuals.

Susan Adamchak, Doris Burnett, Ted Cable, Jean Giddis, John Heritage, Ruth Lynn Hooper, Cindy Jeffrey, Gary Jeffrey (compiler-15850 Galilee Rd, Olsburg, KS 66520), Irv Pressler, John Wesley.

**Oskaloosa/ Perry Lake.** 39°12'N 95°24'W. Center as described in 1980. 18 December 2005; 7:00 a.m. to 5:00 p.m.; 17°F to 27°F. Wind NW 4-8 mph. Snow 4-8 inches. Still water partly frozen, moving water partly frozen; a.m. partly cloudy, light snow, p.m. partly clear. Twelve observers in 4 parties. Total party hours 35.5 (6.5 on foot, 29 by car), plus 0.5 hours owling. Total party-miles 182 (4 on foot, 178 by car), plus 4 miles owling. Total 71 species; 18,186 individuals.

Bob Antonio, Richard Bean, Glen Caspers, David Chaffee, Pamela Chaffee (compiler-847 N. 1909 Rd., Lecompton, KS 66050), Bill Dodd, Dan Gish, Jim Malcom, Richard Martin, Bob Rucker, Bob Rucker, Roseanne Smith, Fred Sullivan, Terry Sullivan.

**Parsons.** 37°30'N 95°15'W. Center as described in 1996. 7 January 2006; 8:00 a.m. to 5:00 p.m.; 37°F to 57°F. Wind calm. Still water open, moving water open; a.m. clear, p.m. partly cloudy. Fourteen observers in 5 parties. Total party-hours 35 (5 on foot, 30 by car). Total party-miles 235 (2 on foot, 233 by car). Total 73 species; 14,601 individuals.

Mavis Brenner, Jo Brookshier, Jim Brumfield, Dave Henness, Liz Mangile, Robert Mangile, Lou Milks, Paul Milks (compiler-2621 Chess, Parsons, KS 67357), Betty Noltensmeyer, John Noltensmeyer, Bill Thorne, Vi Thorne, Rick Tucker, Elsie Vail.

**Pomona Lake.** 38°40'N 95°41'W. Center as described in 1993. 7 January 2006; 8:00 a.m. to 3:00 p.m.; 34°F to 60°F. Wind S-SW 0-5 mph. Still water open, moving water open; a.m. partly cloudy, p.m. clear. Thirteen observers in 4 parties, plus 1 at feeders. Total party-hours 18 (3.5 on foot, 14.5 by car), plus 4 hours at feeders. Total party-miles 161 (5 on foot, 156 by car). Total 60 species; 4,457 individuals.

Jeffrey Bender (compiler-Pomona State Park, 22900 S. Hwy. 368, Vassar, KS 66543), Todd Bobendrier, Bob Culbertson, Trisha Culbertson, Helen Hewins, Joanna Lacoursiere, Brad Loveless, Sarah Merrill, Tonilee Rhoades, Jane Smith, Joe Smith, Jason Sunderland, Pat St. John, Lisa Weeks.

**Quivira National Wildlife Refuge.** 38°09'N 98°29'W. Center as described in 1972. 14 December 2005; 7:00 a.m. to 5:30 p.m.; 31°F to 46°F. Wind N 10-15 mph. Still water frozen, moving water partly frozen; a.m. clear, p.m. partly cloudy. Seventeen observers in 4 parties. Total party-hours 33 (8 on foot, 25 by car), plus 1 hour owling. Total party-miles 329.5 (6.5 on foot, 323 by car), plus 10 miles owling. Total 77 species; 2,268,473 individuals.

Levi Beaver, Lorrie Beck, Wallace Champeny, Gregg Friesen, Rebecca Friesen, Bob Gress, Kevin Groeneweg, Mary Pat Haddican, Dan M. Kilby, Dan S. Kilby, Joyce Lent, Patty Marlett, Mike Rader (compiler-P.O. Box 395, Wilson, KS 67490), Scott Seltman, Max Thompson, Donald Vannoy, Kate Walker.



**Red Hills.** 37°13'N 98°42'W. Center as described in 1994. 31 December 2005; 7:30 a.m. to 5:30 p.m.; 29°F to 56°F. Wind ESE 6-12 mph. Still water open, moving water open; a.m. partly clear, p.m. partly clear. Thirteen observers in 4 parties. Total party-hours 34 (11 on foot, 23 by car), plus 1.5 hours owling. Total party-miles 205 (7 miles on foot, 198 by car), plus 20 miles owling. Total species 84; 14,552 individuals.

Gregg Friesen, Dave Henness, Pete Janzen (compiler-3137 Mascot, Wichita, KS 67204-4407), Nancy Leo, Cleo Lutz, Cheryl Miller, Rita Newton, John Northrup, Jane Queal, Leland Queal, Rick Tucker, Janeen Walter, Gloria Wolf.

**St. Francis.** 39°43'N 101°52'W. Center as described in 1988. 7 January 2006. 7:30 a.m. to 5:00 p.m.; 41°F to 53°F. Wind WNW 20 mph. Still water open, moving water open; a.m. clear, p.m. clear. One observer in 1 party. Total party hours 9 (3.5 on foot, 5.5 by car). Total party-miles 137 (3 on foot, 134 by car). Total 42 species; 1940 individuals.

Henry Armknecht (compiler-PO Box 5, Ovid, CO 80744).

**Salina.** 38°50'N 97°38'W. Center as described in 1983. 31 December 2005; 7:30 a.m. to 5:00 p.m.; 24°F to 58°F. Wind S 5 mph. Still water open, moving water open; a.m. partly clear, p.m. partly cloudy. Fourteen observers in 4-5 parties, plus 2 at feeders. Total party-hours 40 (10.5 on foot, 29.5 by car) plus 6 hours at feeders. Total party-miles 382 (10 on foot, 372 by car). Total 53 species; 9,681 individuals.

Dennis Farres, Kat Farres, David Haight, Kevin Haight, Harold Lear (compiler-612 Max Avenue, Salina, KS 67401-6661), Judd Patterson, Shannon Rayl, Dave Roy, Kathy Roy, Mike Roy, Doug Rudick, Joe Streckfus, Marge Streckfus, John Wachholz.

**Sawyer.** 37°32'N 98°41'W. Center as described in 1989. 7 January 2006; 7:30 a.m. to 5:00 p.m.; 32°F to 73°F. Wind S 8 mph. Still water open, moving water open; a.m. clear, p.m. clear. Twenty-one observers in 11 parties, plus 2 at feeders. Total party-hours 31 (5 on foot, 26 by car) plus 1 hour owling. Total party-miles 140.5 (3.5 on foot, 137 by car) plus 0.5 miles owling. Total 68 species; 25,017 individuals.

Pat Aubley, Ken Brunson (compiler-40050 NE 10th St., Pratt, KS 67124), Lee Ann Brunson, Nate Davis, Mike Farney, Phyllis Farney, Kevin Groeneweg, Mark Haas, Sarah Fincham-Haas, Arlan Hair, Bill Hlavachick, Eric Johnson, Louise Kempton, Nikki Lambrech, Linda Loomis, Kent Monte, Flo Parsons, Jane Queal, Lee Queal, Cherie Riffey, Catharine Riggs, Jack Strait, Laurie Yasui.

**Scott Lake.** 38°35'N 100°56'W. Center as described in 1987. 18 December 2005; 7:30 a.m. to 4:30 p.m.; 12°F to 19°F. Wind calm. Snow 0.5 inches. Still water partly frozen, moving water open; a.m. cloudy, light snow, p.m. cloudy. Five observers in 3-2 parties. Total party-hours 20 (7 on foot, 13 by car), plus 0.5 hours owling. Total party-miles 236.5 (4.5 on foot, 232 by car), plus 2 miles owling. Total 72 species; 45,947 individuals.

Henry Armknecht, Doug Floto, Scott Seltman, Sara Shane (compiler-1706 Belmont, Garden City, KS 67846), Tom Shane.

**Seneca.** 39°47'N 96°05'W. Center as described in 1996. 28 December 2005; 7:30 a.m. to 5:00 p.m.; 40°F to 51°F. Wind NW 3-20 mph. Still water partly open, moving water partly open; a.m. cloudy, p.m. partly cloudy. One observer in 1 party. Total party-hours 9.75 (4.5 on foot, 5.25 by car), plus 0.5 hour owling. Total-party miles 102 (7 on foot, 95 by car), plus 4 miles owling. Total 49 species; 17,664 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. 21 December 2005; 8:00 a.m. to 5:30 p.m.; 19°F to 30°F. Wind SSE 0-5 mph. Still water party frozen, moving water open; a.m. foggy, p.m. foggy. Eight observers in 3 parties. Total party-hours 23 (6 on foot, 17 by car), plus 2 hours owling. Total party-miles 187.5 (4.5 on foot, 183 by car), plus 39.25 miles owling. Total 96 species; 49,514 individuals.

Wallace Champeny, Jack Dennett, Norma Dennett, Kevin Groeneweg, Patty Marlett, Ben Rogers, 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 2006; 7:30 a.m. to 2:00 p.m.; 55°F to 71°F. Wind SW 20-35 mph. Still water open, moving water open; a.m. partly cloudy, p.m. partly cloudy. Nine observers in 5 parties. Total party-hours 30 (5 on foot, 25 by car), plus 0.5 owling. Total party-miles 228.5 (4.5 on foot, 224 by car), plus 10 miles owling. Total 68 species; 5,654 individuals.

Mavis Benner, Ellen Cox, Cindy Ford, Steve Ford (compiler-Biology Department, Pittsburg State University, Pittsburg, KS 66762), John Hartley, Larry Herbert, Barry Jones, Elizabeth Mangile.

**Topeka.** 39°02'N 95°40'W. Center as described in 1972. 17 December 2005; 7:00 a.m. to 5:00 p.m.; 22°F to 17°F. Wind NE 5 mph. Snow 3 inches. Still water frozen, moving water partly frozen; a.m. snow, p.m. snow. Twenty-three observers in 11 parties, plus 7 at feeders. Total party-hours 61.5 (22.5 on foot, 39 by car), plus 22.5 hours at feeders. Total party-miles 365.75 (28.75 on foot, 337 by car). Total 80 species; 26,135 individuals.

Judy Billings, Sandy Bohnsack, Jim Brier, Joanne Brier, Diana Busey, Glen Caspers, Nancy Cole, Walter Cole, Evelyn Davis, Denise Eulert, Richard Field, Dan Gish, Dean Grisell, Gladys Grisell, Gary Haden (compiler-5225 SW 12th St, Topeka, KS 66604), Jeff Hansen, Robert Henningsen, Scottie Johnson, Dan Larson, Bob Lawson, Jim Malcom, Robert McElroy, Susan Miller, Marilyn Morford, Carol Morgan, Larry Peters, Alan Pollom, Melody Pollom, Joanne Ramberg, Rhonda Simpson, Janeen Walters, Paul Willis.

**Udall/Winfield.** 37°16'N 96°59'W. Center as described in 1972. 18 December 2005; 8:00 a.m. to 5:00 p.m.; 28°F to 23°F. Wind NNE 13 mph. Snow 2 inches. Still water frozen, moving water open; a.m. cloudy, p.m. cloudy. Nine observers in 4 parties, plus 1 at feeders. Total party-hours 30.5 (6.5 on foot, 24 by car), plus 1 hour at feeders, 4 hours owling. Total party-miles 265 (3.75 on foot, 261.25 by car), plus 63 miles owling. Total 97 species; 64,365 individuals.

Betty Anderson, Duane Anderson, Terry Barnett, Wallace Champeny, Kevin Groeneweg, Travis Ross, Gary Straley, Max Thompson (compiler- 1729 E. 11th Ave., Winfield, KS 67156), Robert Wimmer, Eugene Young.

**Ulysses.** 37°30'N 101°18'W. Center as described in 1994. 31 December 2005; 8:15 a.m. to 5:30 p.m.; 22°F to 62°F. Wind S mph. Still water partly frozen; moving water partly frozen; a.m. clear, p.m. clear. Nine observers in 3 parties, plus 4 at feeders. Total party-hours 22 (9 on foot, 13 by car) plus 4 hours at feeders, 0.25 hours owling. Total party-miles 175 (12.75 on foot, 162.25 by car), plus 7 miles owling. Total 55 species; 5,011 individuals.

Maxine Barnes, Mollie Beard, Eula Boylan, Doug Floto, Pam Gindlesberger, Sam Guy, Kellye Hart (compiler- PO Box 576, Ulysses, KS 67880), Dan LaShelle, Dwight McGlohon, Marion McGlohon, Marie Osterbuhr, Mike Ramsey, Pam Ramsey.

**Waconda Lake.** 39°28'N 98°22'W. Center as described in 1992. 20 December 2005; 8:15 a.m. to 5:15 p.m.; 9°F to 28°F. Wind W 5-10 mph. Snow 4 inches. Still water frozen, moving water partly frozen; a.m. clear, p.m. clear. Two observers in 1 party. Total party-hours 9 (3 on foot, 6 by car). Total party-miles 112 (2 on foot, 110 by car). Total 64 species; 20,649 individuals.

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

**Wakefield.** 39°13'N 96°58'W. Center as described in 1992. 2 January 2005; 7:30 a.m. to 5:00 p.m.; 35°F to 50°F. Wind W-NW 5-24 mph. Still water open, moving water open; a.m. partly cloudy, p.m. clear. Nine observers in 4 parties, plus 1 at feeders. Total party-hours 33.25 (11.5 on foot, 21.75 by car), plus 3 hours at feeders, 1 hours owling. Total party-miles 227.75 (9.5 on foot, 218.25 by car), plus 7.5 miles owling. Total 75 species; 10,684 individuals.

Doris Burnett, Warren Buss, Carol Hoogheem, Irwin Hoogheem, Chuck Otte (compiler- 613 Tamerisk, Junction City, KS 66441), Jaye Otte, Brett Sandercock, Chris Smith, Scott Williams.

**Webster Reservoir.** 39°25'N 99°24'W. Center as described in 1992. 27 December 2005; 8:00 a.m. to 4:30 p.m.; 32°F to 55°F. Wind N 5-30 mph. Still water partly frozen, moving

water open; a.m. cloudy, p.m. partly cloudy. Six observers in 2-3 parties. Total party-hours 15 (5 on foot, 10 by car). Total party-miles 202 (4 on foot, 198 by car). Total 66 species; 28,773 individuals.

Henry Armknecht, Ellen Rader, Jennifer Rader, Mike Rader (compiler-P.O. Box 395, Wilson, KS 67490), Scott Seltman, Steven Seltman.

**Wichita.** 37°41'N 97°21'W. Center as described in 1955. 17 December 2005; 7:30 a.m. to 5:00 p.m.; 30°F to 31°F. Wind ENE 7-13 mph. Snow 6 inches. Still water partly frozen, moving water partly frozen; a.m. snow, p.m. snow. Twenty observers in 8 parties, plus 3 at feeders. Total party-hours 58 (37 on foot, 21 by car), plus 6 hours at feeders and 2 hours owling. Total party-miles 353 (33 on foot, 320 by car), plus 20 miles owling. Total 96 species; 22,951 individuals.

Brian Addis, Pat Beckemeyer, Roy Beckemeyer, Walker Butin, Wallace Champeny, Bob Gress, Kevin Groeneweg, Bob Hoppes, Pete Janzen (compiler-3137 Mascot, Wichita, KS 67204-0182), Dan Kilby, Catherine Lewis, Patty Marlett, Jim Mason, Rob McHenry, Rose McHenry, Cheryl Miller, Michael Pearce, Dale Randall, Ben Rogers, Eddie Stegall, Don Vannoy, Art Weigand.

**Wilson Lake.** 38°56'N 98°34'W. Center as described in 1994. 16 December 2005; 7:00 a.m. to 5:30 p.m.; 14°F to 33°F. Wind NW 5-15 mph. Still water partly frozen, moving water partly open; a.m. partly cloudy, p.m. partly cloudy. Two observers in 2 parties. Total party-hours 18 (6 on foot, 12 by car), plus 0.5 hours owling. Total party-miles 204 (4 on foot, 200 by car), plus 5 miles owling. Total 85 species; 16,926 individuals.

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

**Yoder.** 37°55'N 97°50'W. Center as described in 2000. 17 December 2005; 8:00 a.m. to 11:30 a.m.; 13°F to 20°F. Wind N 13 mph. Snow 2 inches. Still water partly frozen, moving water open; a.m. cloudy light snow, p.m. cloudy light snow. Fourteen observers in 6 parties. Total party-hours 17 (0.5 on foot, 16.5 by car). Total party-miles 188 (1.5 on foot, 186.5 by car). Total 46 species; 13,730 individuals.

Levi Beaver, Mary Clark (compiler-Dillon Nature Center, 3002 E 30th, Hutchinson, KS 67502), Kris Davis, Dan Dyck, Jennifer Dyck, Linda Dyck, Garrett Ediger, Steven Kinser, Dwight Miller, Jay Miller, Verna Miller, Sarah Parsons, Jim Smith, Doug Wildin.

<sup>1</sup>*Biology Department, Baker University, PO Box 65, Baldwin City, KS 66006.*  
(Calvin.Cink@bakeru.edu and Roger.Boyd@bakeru.edu)

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# RECOVERIES OF EASTERN PHOEBES BANDED AS NESTLINGS IN NORTHEASTERN KANSAS

Calvin L. Cink

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

The Eastern Phoebe (*Sayornis phoebe*) is a common transient and summer resident of eastern Kansas, and gradually becomes less common as you go west (Thompson and Ely 1992). Their frequency of abundance in breeding bird atlas blocks in the Glaciated Region, Osage Plains, and Flint Hills of eastern Kansas exceeded 95 percent, a pattern comparable to that obtained on Breeding Bird Survey routes in the same area (Busby and Zimmerman 2001). Although its breeding biology has been studied in both eastern (Klaas 1970) and western Kansas (Schukman 1974), and timing of arrival in early spring and departure in autumn is well documented, its migratory routes are unknown (Weeks 1994).

There are only 245 recovery records of banded Eastern Phoebes since 1921 in the Encounter Retrieval File at the Bird Banding Lab at the Patuxent Wildlife Research Center. Only five of these were banded in Kansas (2%). Of these, three were adults banded during the breeding season and were probably nesting. They were all recovered in Kansas and are of limited use in extrapolating migratory routes. The other two phoebes were nestlings that I banded and were recovered outside of Kansas.

The first nestling (#940-67016) was banded on 28 June 1982 with three nest-mates under a bridge near Stony Point church about 6.5 km NW of Baldwin City, Douglas County, Kansas. It represented one of 98 nestlings (1%) banded that summer (along with 2 adult females). The young phoebe was captured on its first migration south by Marguerite Baumgartner in a mist net at the Whirlwind Nature Center near Jay, Delaware County, Oklahoma on 10 October 1982. It was the only foreign recapture of an Eastern Phoebe she had at that location (M. Baumgartner, pers. comm.). This recovery is approximately 262km SSE of the Kansas banding location.

The second nestling (#960-17529) was banded on 26 June 1986 with four nestmates in a culvert 3.2 km south of Baldwin City, Douglas County, Kansas. It represented one of 132 nestlings (0.75%) banded that summer (along with 5 adult males and 7 adult females). This young phoebe was found dead near Bay City, Matagorda County, Texas, on 8 February 1987. The band was removed and mailed to the Bird Banding Lab. The person who found the bird could provide no additional information. This recovery is approximately 1095 km SSW of the banding location. The date suggests that the bird may have used this area of Texas as a wintering area, or was migrating back north from a wintering area further south at the time of its demise. The southern limits of its winter range extend to Veracruz, Mexico (Weeks 1994). Peak numbers of wintering Eastern Phoebes occur along the Gulf Coast and especially high concentrations occur in east-central Texas and northern Florida (Root 1988).

While a sample of two recoveries is far from conclusive, it does suggest that Eastern Phoebes reared in Kansas migrate nearly due south in autumn and may return north along a similar route in spring. Clearly more data are needed. With such low recovery rates (0.38%; only two phoebes from 515 nestlings banded over seven breeding seasons), such evidence will come slowly using banding results only.

My thanks to Kathy Klimkiewicz of the Bird Banding Lab for providing the data file of Eastern Phoebe recoveries and to John Schukman for his comments on the manuscript.

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- Weeks, H. P., Jr. 1994. Eastern Phoebe (*Sayornis phoebe*). In The Birds of America, No. 94 (A. Poole and F. Gill, Eds.) Philadelphia: The Academy of Natural Sciences; Washington, D.C.: The American Ornithologists' Union.

2005-KOS Winter Bird Count Table  
Species

|                             | Alma | Arkansas City | Baldwin | Benedictine Bottoms | Black Wolf | Blue Rapids | Bonner Springs | Camp Naish | Cedar Bluff | Cheyenne Bottoms | Cimarron Natl.Grassld | Dodge City | Doniphan County |
|-----------------------------|------|---------------|---------|---------------------|------------|-------------|----------------|------------|-------------|------------------|-----------------------|------------|-----------------|
| Gr. White-fronted Goose     |      | 2             |         |                     |            |             |                |            | 10          | 51               |                       |            |                 |
| Snow Goose, White form      | 380  | 60            | 45      | 4000                | 100        |             | 5              |            | 2000        | 123              | 19                    |            | 2775            |
| Blue Form                   | 70   | 1             | 10      | 2000                |            |             |                |            |             |                  |                       |            | 1175            |
| Ross' Goose                 |      | 1             |         |                     |            |             |                |            | 2           |                  | 5                     |            | 3               |
| Canada Goose                | 532  | 7625          | 6602    | 450                 | 1682       | 167         | 9050           | 85         | 6400        | 16309            | 10                    | 2508       | 52              |
| Cackling Goose              | 33   | 2037          | 122     |                     | 60         | 4           | 26             |            | 50          |                  | 2                     |            |                 |
| Goose sp.                   |      |               |         |                     |            |             |                |            |             |                  | 140                   |            |                 |
| Trumpeter Swan              |      |               |         | 4                   |            |             |                |            |             |                  |                       |            |                 |
| Tundra Swan                 |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Wood Duck                   |      |               |         |                     |            |             | 1              |            |             | 22               |                       |            |                 |
| Gadwall                     | CW   | 20            | 82      | 25                  |            |             | 26             |            |             |                  |                       |            |                 |
| Am. Wigeon                  |      |               | 2       |                     |            |             |                |            | 450         |                  |                       |            |                 |
| Mallard                     | 106  | 40            | 1609    | 8000                | 505        | 22          | 425            | 3          | 2600        | 253              | 45                    | 11         | 1023            |
| Blue-winged Teal            |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Cinammon Teal               |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| N. Shoveler                 | CW   | CW            |         | 10                  |            |             | 1              |            | 10          |                  |                       | 1          |                 |
| N. Pintail                  | CW   |               |         |                     |            |             |                |            | 17          |                  |                       |            |                 |
| Green-winged Teal           | CW   | CW            | 2       |                     |            |             |                |            |             | 1                |                       |            |                 |
| Canvasback                  |      |               | 1       |                     |            |             |                |            |             |                  |                       |            |                 |
| Redhead                     | CW   |               | 2       |                     |            |             | 2              |            |             |                  |                       |            |                 |
| Ring-necked Duck            |      | 11            | 7       |                     |            |             | 126            |            |             | 4                |                       |            |                 |
| Greater Scaup               |      |               | 20      |                     |            |             |                |            |             |                  |                       |            |                 |
| Lesser Scaup                |      | 2             | 13      |                     |            | 1           | 3              |            |             |                  |                       |            |                 |
| Long-tailed Duck            |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Bufflehead                  |      |               | 6       |                     |            |             | 2              |            | 2           |                  |                       |            |                 |
| Common Goldeneye            | 4    | 83            | 13      |                     |            | 49          | 57             |            | 270         | 57               |                       |            | 2               |
| Hooded Merganser            |      |               |         |                     |            |             | 14             |            | 105         | 1                |                       |            |                 |
| C. Goldeneye x H. Merganser |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Common Merganser            | 3    | 27            |         |                     |            | 1           | 26             |            | 225         | 6                |                       |            |                 |
| Ruddy Duck                  |      |               |         |                     |            |             | 8              |            |             |                  |                       |            |                 |
| duck sp.                    |      |               |         |                     |            | 1           |                |            |             |                  |                       |            |                 |
| Ring-necked Pheasant        |      | 18            |         | 2                   | 9          | 1           |                |            | 7           | 152              | 27                    | 4          |                 |
| Greater Prairie-Chicken     |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Lesser Prairie-Chicken      |      |               |         |                     |            |             |                |            |             |                  | 5                     |            |                 |
| Wild Turkey                 | 56   | 142           | 131     | 15                  | 428        | 37          | 3              | 89         | 120         | 58               |                       |            | 78              |
| Scaled Quail                |      |               |         |                     |            |             |                |            |             |                  | 23                    |            |                 |
| N. Bobwhite                 | 2    | 32            | 2       |                     |            |             | 12             |            | 15          |                  | 83                    | 8          |                 |
| Common Loon                 |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Pied-billed Grebe           |      | 1             | 1       |                     |            |             |                | 1          |             |                  |                       |            |                 |
| Horned Grebe                |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Eared Grebe                 |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Am. White Pelican           |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Double-crested Cormorant    |      |               |         |                     |            |             | 1              |            | 5           | 1                |                       |            |                 |
| Neotropical Cormorant       |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Great Blue Heron            |      | 8             | 2       |                     |            |             |                |            | 1           | 3                |                       |            | 2               |
| Great Egret                 |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Turkey Vulture              |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Bald Eagle                  | CW   | 159           |         | 4                   | 1          | 10          | 15             | 1          | 47          |                  | 1                     |            | 5               |
| N. Harrier                  | 5    | 33            | 11      | 2                   | 14         | 7           | 1              | 1          | 42          | 46               | 52                    | CW         | 5               |
| Sharp-shinned Hawk          | 1    | 6             | 5       | 1                   | 2          | 3           | 1              | 1          | 1           | 1                | 1                     |            |                 |
| Cooper's Hawk               | CW   | 3             |         | 1                   | 2          | 1           | 1              | 1          | 2           | 2                | 2                     |            | 1               |
| N. Goshawk                  |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Accipiter sp.               |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Red-shouldered Hawk         |      | 2             |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Red-tailed Hawk             | 17   | 146           | 56      | 11                  | 42         | 49          | 60             | 4          | 55          | 30               | 50                    | 4          | 40              |
| Harlan's                    |      | 7             |         |                     |            | 5           |                |            |             |                  |                       |            |                 |
| Krider's                    |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Ferruginous Hawk            |      |               |         |                     |            |             |                |            | 1           | 2                | 27                    | 4          |                 |
| Rough-legged Hawk           | CW   |               | 2       |                     |            | 1           | 5              |            | 2           | 8                | 17                    | 2          |                 |
| Buteo sp.                   |      |               |         |                     |            | 2           |                |            |             |                  |                       |            |                 |
| Golden Eagle                | CW   |               |         |                     |            |             |                |            | 1           |                  | 3                     |            |                 |
| Am. Kestrel                 | CW   | 36            | 11      | 3                   | 27         | 9           | 19             | 1          | 48          | 10               | 71                    | 8          | 16              |
| Merlin                      |      |               | 1       |                     | 1          |             | 1              |            |             |                  | 2                     |            |                 |
| Peregrine Falcon            |      |               |         |                     |            |             |                |            |             | 2                |                       |            |                 |
| Prairie Falcon              | CW   | 1             |         |                     | 1          | 2           |                |            | 1           |                  | 8                     | 1          |                 |
| Falco sp.                   |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Virginia Rail               |      | 2             |         |                     |            |             |                |            |             |                  | 4                     |            |                 |
| Sora                        |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Am. Coot                    |      |               | 1       |                     |            |             | 13             |            | 25          | 3                |                       |            |                 |
| Sandhill Crane              |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Killdeer                    | 4    | 3             | 1       |                     |            |             |                |            |             |                  |                       |            |                 |
| Greater Yellowlegs          |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Least Sandpiper             |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Wilson's Snipe              | CW   |               | 2       |                     |            |             |                |            |             |                  |                       |            |                 |
| Bonaparte's Gull            |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Ring-billed Gull            | 2    | CW            |         |                     |            |             | 7              | 2          | 145         | 8                |                       |            |                 |
| Herring Gull                | CW   | 5             |         | 1                   |            |             |                |            | 20          |                  |                       |            |                 |
| Thayer's Gull               |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Iceland Gull                |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Glaucous Gull               |      | 1             |         |                     |            |             |                |            |             |                  |                       |            |                 |
| gull sp.                    |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Rock Pigeon                 | 2    | 468           | 39      | 140                 | 198        | 25          | 97             | 8          | 22          | 191              | 46                    | 114        | 78              |
| Eurasian Collared Dove      |      | 17            |         |                     |            | 3           |                |            | 2           | 1                | 200                   | 4          | 14              |
| White-winged Dove           |      |               |         |                     |            |             |                |            |             |                  |                       | 4          |                 |
| Mourning Dove               | 15   | 135           | 113     |                     | 3          | 11          | 84             | 53         | 5           | 11               | 53                    | 11         | 1               |
| Inca Dove                   |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Greater Roadrunner          |      |               |         |                     |            |             |                |            |             |                  | 1                     |            |                 |
| Barn Owl                    |      | 1             |         |                     |            |             |                |            | 5           | 2                | 3                     |            |                 |
| E. Screech-Owl              | 1    | 10            | 4       |                     | 3          | 16          | 1              | 3          | 15          | 5                | 5                     |            | 1               |
| Great Horned Owl            | 3    | 18            | 4       |                     | 4          | 9           | 1              | 3          | 3           | 4                | 14                    |            | 5               |
| Barred Owl                  | 1    | 38            | 1       |                     | 2          | 9           | 1              | 4          |             |                  | 1                     |            | 2               |

2005-KOS Winter Bird Count Table  
Species

| Species                    | Alma | Arkansas City | Baldwin | Benedictine Bottoms | Black Wolf | Blue Rapids | Bonner Springs | Camp Naish | Cedar Bluff | Cheyenne Bottoms | Cimarron Nat. Grassld | Dodge City | Doniphan County |
|----------------------------|------|---------------|---------|---------------------|------------|-------------|----------------|------------|-------------|------------------|-----------------------|------------|-----------------|
| Long-eared Owl             |      |               |         |                     |            |             |                |            | 20          |                  |                       |            |                 |
| Short-eared Owl            |      | 1             |         |                     |            |             |                |            | 5           |                  |                       |            |                 |
| Belted Kingfisher          | 4    | 6             | 2       |                     |            | 4           | 3              |            | 1           | 2                | 1                     |            | 3               |
| Red-headed Woodpecker      | 7    | 9             | 10      |                     |            | 3           | 42             | 42         |             |                  |                       |            | 8               |
| Red-bellied Woodpecker     | 15   | 108           | 44      | 6                   | 26         | 26          | 52             | 19         | 13          | 5                | 1                     |            | 48              |
| Yellow-bellied Sapsucker   | 2    | 13            | 7       |                     |            | 2           | 6              | 2          |             |                  |                       |            | 1               |
| Ladder-backed Woodpecker   |      |               |         |                     |            |             |                |            |             |                  | 2                     |            |                 |
| Downy Woodpecker           | 7    | 70            | 42      | 5                   | 15         | 37          | 34             | 18         | 13          | 4                | 13                    |            | 41              |
| Hairy Woodpecker           | 8    | 10            | 8       | 2                   | 8          | 2           | 1              | 2          | 2           | 1                | 9                     |            | 2               |
| N. Flicker                 |      | 47            | 24      |                     | 35         | 24          | 30             | 17         | 38          | 35               | 7                     |            | 14              |
| Yellow-shafted             | 20   | 27            | 32      | 1                   |            | 9           | 25             |            | 17          |                  | 1                     | 13         | 9               |
| Red-shafted                | 1    | 5             | 3       |                     |            | 5           | 1              |            | 4           |                  |                       |            |                 |
| Pileated Woodpecker        |      | 13            | 1       |                     |            |             | 1              | 2          |             |                  | 20                    |            | 1               |
| Eastern Phoebe             |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Loggerhead Shrike          | CW   | 5             | 2       |                     |            | 1           |                |            |             | 1                | 9                     |            |                 |
| N. Shrike                  |      |               |         |                     |            |             |                |            | 1           | 1                |                       |            |                 |
| Blue Jay                   | 16   | 98            | 124     | 25                  | 1          | 39          | 154            | 35         | 1           |                  | 6                     | 5          | 56              |
| Black-billed Magpie        |      |               |         |                     | 3          |             |                |            | 3           | 3                | 19                    |            |                 |
| Am. Crow                   | 29   | 262           | 198     | 19                  | 45         | 5509        | 95             | 7          | 9           |                  |                       | CW         | 75              |
| Horned Lark                | 4    | 536           | 1089    | 26                  | 145        | 40          | 214            |            | 545         | 8106             | 2509                  | 235        | 89              |
| Carolina Chickadee         |      | 184           |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Black-capped Chickadee     | 24   |               | 130     | 17                  | 46         | 52          | 110            | 35         | 14          | 3                |                       |            | 56              |
| Tufted Titmouse            | 11   | 51            | 62      | 6                   |            | 9           | 39             | 44         |             |                  |                       |            | 10              |
| Red-breasted Nuthatch      |      | 5             | 6       | 1                   | 5          |             |                |            |             | 5                | 4                     |            |                 |
| White-breasted Nuthatch    | 12   | 29            | 28      | 4                   | 38         | 34          | 31             | 15         | 9           | 4                | 6                     |            | 29              |
| Brown Creeper              | 3    | 14            | 5       |                     | 3          | 2           | 5              | 1          | 3           |                  |                       |            |                 |
| Rock Wren                  |      |               |         |                     |            |             |                |            |             |                  | 1                     |            |                 |
| Carolina Wren              | 13   | 54            | 17      | 1                   | 5          | 4           | 26             | 25         |             | 1                |                       |            | 19              |
| Bewick's Wren              | 2    | 1             |         |                     |            |             |                |            |             |                  | 1                     |            |                 |
| Winter Wren                | 2    | 6             | 1       |                     | 1          |             | 1              | 6          |             |                  |                       |            | 1               |
| Marsh Wren                 |      |               |         |                     |            |             |                |            | 4           |                  | 5                     |            |                 |
| Golden-crowned Kinglet     | 7    | 35            | 13      | 2                   | 1          | 6           | 3              | 13         | 2           |                  |                       |            | 2               |
| Ruby-crowned Kinglet       |      | 22            | 1       | 1                   |            | 2           | 1              |            |             |                  |                       |            |                 |
| Kinglet sp.                |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| E. Bluebird                | 36   | 151           | 132     | 2                   | 24         | 141         | 33             | 54         | 13          |                  | 7                     |            | 50              |
| Mountain Bluebird          |      |               |         |                     |            |             |                |            | 10          |                  |                       |            |                 |
| Townsend's Solitaire       |      |               |         |                     |            |             |                |            | 12          | 3                | 2                     |            |                 |
| Hermit Thrush              |      | 4             | 5       |                     |            | 1           | 3              | 1          | 1           |                  | 3                     |            |                 |
| Am. Robin                  | 46   | 156           | 2525    |                     | 85         | 692         | 225            | 280        | 27          | 16               | 145                   | 22         | 5               |
| Gray Catbird               |      | 24            | 9       |                     |            | 4           | 12             | 1          |             |                  | 3                     |            | 1               |
| N. Mockingbird             |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Brown Thrasher             |      |               |         |                     |            |             |                |            |             |                  | 1                     |            |                 |
| Curve-billed Thrasher      |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| European Starling          | 26   | 16,626        | 900     | 400                 | 450        | 293         | 4750           | 582        | 1070        | 188              | 83                    | 116        | 510             |
| American Pipit             |      | 3             |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Cedar Waxwing              | 1    | 17            | 90      |                     | 2          | 50          | 80             | 3          |             | 40               | 3                     |            |                 |
| Orange-crowned Warbler     |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Yellow-rumped Warbler      | 15   | 44            | 21      |                     | 1          | 5           | 10             | 17         | 3           |                  | 1                     |            |                 |
| Spotted Towhee             | CW   | 14            | 3       |                     |            | 6           |                | 1          | 1           | 1                |                       |            |                 |
| E. Towhee                  |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Am. Tree Sparrow           | 197  | 469           | 589     | 3                   | 460        | 416         | 115            | 4          | 640         | 1831             | 254                   | 58         | 244             |
| Field Sparrow              | CW   | 14            |         | 10                  |            |             |                |            | 29          | 98               |                       |            |                 |
| Vesper Sparrow             |      | 2             |         |                     |            |             |                |            |             |                  | 1                     |            |                 |
| Lark Sparrow               |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Savannah Sparrow           |      | 135           | 2       |                     |            |             |                |            |             |                  | 1                     |            |                 |
| LeConte's                  |      | 2             |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Fox Sparrow                | 1    | 6             | 3       |                     |            |             | 4              | 5          |             |                  |                       |            |                 |
| Song Sparrow               | 19   | 225           | 106     | 1                   | 26         | 18          | 44             | 14         | 29          | 5                | 9                     |            | 13              |
| Lincoln's Sparrow          |      | 7             | 6       |                     |            | 2           |                |            |             |                  | 1                     |            |                 |
| Swamp Sparrow              | 1    | 10            | 19      |                     |            |             | 1              |            |             |                  |                       |            |                 |
| White-throated Sparrow     |      | 6             | 5       | 5                   |            | 1           | 45             | 12         |             |                  |                       |            |                 |
| Harris' Sparrow            | 20   | 759           | 113     | 5                   | 175        | 246         | 35             | 1          | 50          | 299              |                       | 12         | 39              |
| White-crowned Sparrow      |      | 117           | 17      |                     |            | 16          | 4              | 1          | 8           | 1                | 116                   | 1          |                 |
| Dark-eyed Junco            |      | 300           | 1059    |                     | 159        |             | 110            | 75         | 82          | 162              | 20                    |            | 219             |
| Slate-colored              | 208  | 980           | 60      | 81                  | 250        | 600         | 850            |            | 314         |                  | 26                    | 23         | 196             |
| Oregon                     | 2    | 10            | 3       |                     |            | 3           |                |            | 24          |                  | 32                    |            |                 |
| Pink-sided                 |      | 1             |         |                     |            |             |                |            |             |                  | 2                     |            |                 |
| McCown's Longspur          |      |               |         |                     |            |             |                |            |             |                  | 67                    |            |                 |
| Lapland Longspur           | 2    | 40            | 6       |                     | 50         |             |                |            | 330         | 906              | 188                   |            | 150             |
| Smith's Longspur           |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Chestnut-collared Longspur |      |               |         |                     |            | 55          |                |            |             |                  | 39                    |            |                 |
| longspur sp.               |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| Snow Bunting               |      |               |         |                     |            |             |                |            |             |                  |                       |            |                 |
| N. Cardinal                | 29   | 191           | 210     | 31                  | 24         | 79          | 165            | 28         | 8           | 26               | 1                     | 1          | 69              |
| Red-winged Blackbird       | 73   | 94976         | 3900    |                     | 2500       | 2073        | 2070           |            | 48          | 68               | 237                   | 58         | 1074            |
| E. Meadowlark              | 1    | 38            | 2       |                     |            |             |                |            |             |                  |                       |            |                 |
| W. Meadowlark              | CW   | 2             |         |                     | 72         | 66          |                |            | 370         |                  | 673                   | 233        | 13              |
| <i>Sturnella</i> sp.       |      | 678           | 179     | 8                   | 54         | 82          | 66             |            |             | 252              |                       |            | 105             |
| Rusty Blackbird            | 1    | 10            | 288     |                     |            |             | 45             |            |             |                  |                       |            |                 |
| Brewer's Blackbird         |      | 10055         | 4       |                     |            |             |                |            | 12          |                  |                       |            |                 |
| Common Grackle             |      | 328           | 8       |                     |            | 21          | 10             |            |             |                  | 2                     | 60         |                 |
| Great-tailed Grackle       |      | 1             | 95      |                     |            |             |                |            |             |                  | 1                     | 45         |                 |
| Brown-headed Cowbird       |      | 5018          | 1       |                     |            |             | 4              |            | 14          |                  |                       |            |                 |
| blackbird sp.              |      | 100600        |         |                     |            |             |                |            |             |                  | 100                   |            |                 |
| Purple Finch               |      |               | 18      |                     |            | 118         |                |            |             |                  |                       |            |                 |
| House Finch                | 34   | 25            | 102     | 3                   | 45         | 73          | 47             | 1          | 65          | 84               | 113                   | 2          | 4               |
| Pine Siskin                |      | CW            |         |                     |            | CW          |                |            | 4           | 1                |                       |            |                 |
| Am. Goldfinch              | 10   | 76            | 194     | 13                  | 175        | 62          | 79             | 19         | 27          | 85               | 102                   |            | 70              |
| House Sparrow              | 8    | 249           | 168     | 12                  | 240        | 94          | 152            | 42         | 17          | 647              | 440                   | 272        | 249             |
| Total                      | 2154 | 245471        | 21611   | 15359               | 8253       | 11473       | 19932          | 1687       | 16643       | 30246            | 6207                  | 3840       | 8753            |
| Species                    | 55   | 96            | 82      | 43                  | 51         | 65          | 78             | 50         | 77          | 62               | 71                    | 30         | 50              |

2005-KOS Winter Bird Count Table  
Species

|                             | El Dorado Lake | Emporia | Garden City | Halstead-Newton | Hays | Ingalls/Cimarron | Jetmore | John Redmond | Junction City | Kanopolis | Kirwin | Lawrence | Leavenworth Atchison |
|-----------------------------|----------------|---------|-------------|-----------------|------|------------------|---------|--------------|---------------|-----------|--------|----------|----------------------|
| Gr. White-fronted Goose     |                |         |             | 6               |      |                  |         |              |               |           |        | CW       |                      |
| Snow Goose, White form      |                | 10171   |             |                 |      |                  |         | 375          |               | 5         |        | 3        | 10500                |
| Blue Form                   |                |         |             |                 |      |                  |         | 200          |               | 1         |        |          | 5000                 |
| Ross' Goose                 |                |         |             |                 |      |                  |         |              |               |           |        |          | 2                    |
| Canada Goose                | 899            | 2436    | 613         | 1733            | 103  | 3                |         | 1457         | 2507          | 2450      | 1758   | 5415     | 695                  |
| Cackling Goose              | 16             |         |             |                 |      |                  |         |              | 68            | 18        |        | 8        | 3                    |
| Goose sp.                   |                |         |             |                 |      |                  |         |              |               |           |        |          |                      |
| Trumpeter Swan              |                |         |             |                 |      |                  |         | 2            |               |           |        |          |                      |
| Tundra Swan                 |                |         |             |                 |      |                  |         | 4            |               |           |        |          |                      |
| Wood Duck                   |                | 4       | 43          |                 | 5    |                  |         |              |               |           |        | 1        |                      |
| Gadwall                     | 24             | 115     |             |                 |      |                  |         | 100          | 20            | 7         |        | 102      |                      |
| Am. Wigeon                  |                |         | 74          |                 |      |                  |         |              | 2             |           |        |          |                      |
| Mallard                     | 215            | 24      | 250         | 293             | 58   | 524              |         | 2629         | 579           | 92        |        | 1710     | 48                   |
| Blue-winged Teal            |                | 1       |             |                 |      |                  |         |              |               |           |        |          |                      |
| Cinammon Teal               |                |         |             |                 |      |                  |         |              |               |           |        |          |                      |
| N. Shoveler                 | 12             |         |             |                 |      |                  |         | 144          | 3             |           |        | 5        | 10                   |
| N. Pintail                  |                |         |             |                 |      |                  |         | 1            | 2             |           |        | 16       |                      |
| Green-winged Teal           | 2              |         | 2           |                 | 3    |                  |         |              |               | 6         |        | 17       |                      |
| Canvasback                  | 10             |         |             |                 |      |                  |         |              | 1             |           |        | 8        |                      |
| Redhead                     | 6              |         |             |                 |      |                  |         | 1            |               |           |        | 2        |                      |
| Ring-necked Duck            |                | 5       |             |                 |      |                  |         | 5            |               |           |        | 56       |                      |
| Greater Scaup               |                |         |             |                 |      |                  |         |              |               |           |        |          |                      |
| Lesser Scaup                | 4              | 1       |             |                 |      |                  |         | 1            |               | 2         |        | 14       |                      |
| Long-tailed Duck            |                |         |             |                 |      |                  |         |              |               |           |        |          |                      |
| Bufflehead                  |                |         |             |                 |      |                  |         | 12           | 2             |           |        | 2        |                      |
| Common Goldeneye            | 88             | 18      |             |                 |      |                  |         | 52           | 78            | 4025      |        | 12       | 4                    |
| Hooded Merganser            | 10             |         | 1           |                 |      |                  |         | 96           | 22            | 5         |        | 31       |                      |
| C. Goldeneye x H. Merganser |                |         |             |                 |      |                  |         |              |               |           |        |          |                      |
| Common Merganser            | 14             |         |             |                 |      |                  |         | 32           | 12164         | 2079      |        | 10000    | 12                   |
| Ruddy Duck                  | 4              |         |             |                 |      |                  |         |              |               |           |        |          |                      |
| duck sp.                    |                |         |             |                 |      |                  |         | 250          |               |           |        |          |                      |
| Ring-necked Pheasant        |                |         | 66          | 8               | 301  | 104              | 6       |              | 1             | 1         | 6      |          |                      |
| Greater Prairie-Chicken     |                | 95      |             |                 |      |                  |         | 5            |               | 10        |        |          |                      |
| Lesser Prairie-Chicken      |                |         |             |                 |      |                  |         |              |               |           |        |          |                      |
| Wild Turkey                 | 206            | 24      |             | 5               | 1    |                  |         | 293          | 82            | 6         |        | 125      | 4                    |
| Scaled Quail                |                |         | 15          |                 |      |                  |         |              |               |           |        |          |                      |
| N. Bobwhite                 | 12             | 22      | 135         | 32              | 8    | 7                |         | 9            | 4             | 3         |        | 2        |                      |
| Common Loon                 |                |         |             |                 |      |                  |         | 1            | 2             |           |        |          |                      |
| Pied-billed Grebe           |                |         |             |                 |      |                  |         | 1            | 2             |           |        | CW       |                      |
| Horned Grebe                |                |         |             |                 |      |                  |         | 1            |               |           |        |          |                      |
| Eared Grebe                 |                |         |             |                 |      |                  |         | 1            |               |           |        |          |                      |
| Am. White Pelican           |                |         |             |                 |      |                  |         | 52           |               |           |        |          |                      |
| Double-crested Cormorant    |                |         |             |                 |      |                  |         | 62           |               |           |        | 1        |                      |
| Neotropical Cormorant       |                |         |             |                 |      |                  |         | 1            |               |           |        |          |                      |
| Great Blue Heron            | 1              | 4       | 4           | 6               | 1    |                  |         | 50           | 38            | 21        |        | 5        | 1                    |
| Great Egret                 |                |         |             |                 |      |                  |         |              |               |           |        |          |                      |
| Turkey Vulture              |                |         |             |                 |      |                  |         |              |               |           |        |          |                      |
| Bald Eagle                  | 9              | 7       |             |                 |      |                  |         | 28           | 61            | 13        | 2      | 40       | 21                   |
| N. Harrier                  | 28             | 42      | 15          | 21              | 30   | 34               | 9       | 39           | 13            | 16        | 11     | 16       | 9                    |
| Sharp-shinned Hawk          | 1              | 1       | 8           | CW              | 2    |                  |         | 1            | 3             | 4         |        | 2        | 1                    |
| Cooper's Hawk               | 1              | 1       | 2           | 2               | 1    |                  |         | 5            | 4             |           | 1      | 4        | 1                    |
| N. Goshawk                  |                |         |             |                 |      |                  |         |              |               |           |        |          |                      |
| Accipiter sp.               |                |         |             |                 |      |                  |         |              |               |           |        |          |                      |
| Red-shouldered Hawk         |                |         |             |                 |      |                  |         |              |               |           |        |          |                      |
| Red-tailed Hawk             | 69             | 38      | 36          | 40              | 41   | 46               | 5       | 65           | 61            | 33        | 45     | 92       | 70                   |
| Harlan's                    |                |         | 1           | 2               |      |                  |         |              | 6             |           |        |          |                      |
| Krider's                    |                |         |             |                 |      |                  |         |              | 3             |           |        |          |                      |
| Ferruginous Hawk            |                |         | 8           |                 |      | 5                | 2       |              |               |           |        |          |                      |
| Rough-legged Hawk           | 3              | 6       | 11          | 3               | 1    | 6                | 4       | 3            | 2             | 1         | 1      | 1        |                      |
| Buteo sp.                   |                |         |             | 2               |      |                  | 6       |              | 2             |           |        |          |                      |
| Golden Eagle                |                |         |             |                 |      |                  | 1       |              |               |           |        |          |                      |
| Am. Kestrel                 | 13             | 9       | 22          | 22              | 12   | 11               | 16      | 6            | 18            | 6         | 10     | 39       | 18                   |
| Merlin                      |                | 1       |             |                 |      | 1                |         |              |               | 1         |        |          |                      |
| Peregrine Falcon            |                |         |             |                 |      |                  |         | 1            | 1             |           |        |          |                      |
| Prairie Falcon              | 1              | 1       |             | 1               | 5    | 4                | 2       |              | 1             |           | 1      |          |                      |
| Falco sp.                   |                |         |             |                 |      |                  |         |              |               |           |        |          |                      |
| Virginia Rail               |                |         |             |                 |      |                  |         |              |               | 3         |        |          |                      |
| Sora                        |                |         |             |                 |      |                  |         |              |               |           |        |          | 1                    |
| Am. Coot                    |                |         |             |                 |      |                  |         | 7            |               |           |        | 13       |                      |
| Sandhill Crane              |                |         |             |                 |      |                  |         |              |               |           |        |          |                      |
| Killdeer                    |                | 1       |             |                 |      |                  |         |              |               | 2         |        | 1        |                      |
| Greater Yellowlegs          |                |         |             |                 |      |                  |         |              |               |           |        |          |                      |
| Least Sandpiper             |                |         |             |                 |      |                  |         | 1            |               |           |        |          |                      |
| Wilson's Snipe              |                |         |             |                 | 2    |                  |         |              |               |           |        |          |                      |
| Bonaparte's Gull            |                |         |             |                 |      |                  |         |              |               |           |        |          | 31                   |
| Ring-billed Gull            | 2169           | 1       |             |                 |      |                  |         | 391          | 139           | 450       |        | 1480     | 3                    |
| Herring Gull                | 5              |         |             |                 |      |                  |         | 17           | 9             | 240       |        | 145      |                      |
| Thayer's Gull               |                |         |             |                 |      |                  |         |              |               | 2         |        | 2        |                      |
| Iceland Gull                |                |         |             |                 |      |                  |         |              |               | 1         |        |          |                      |
| Glaucous Gull               |                |         |             |                 |      |                  |         |              |               | 1         |        | 2        |                      |
| gull sp.                    |                |         |             |                 |      |                  |         |              |               |           |        |          |                      |
| Rock Pigeon                 | 2              | 281     | 1409        | 77              | 14   | 64               | 22      | 4            | 135           | 27        | 53     | 1160     | 88                   |
| Eurasian Collared Dove      |                |         | 256         | 2               | 20   | 59               |         |              |               | 2         |        | 20       |                      |
| White-winged Dove           |                |         | 59          |                 |      |                  |         |              |               |           |        |          |                      |
| Mourning Dove               | 1              | 66      | 51          | 76              | 25   | 22               |         | 1            | 21            | 1         | 15     | 187      | 23                   |
| Inca Dove                   |                |         | 8           |                 |      |                  |         |              |               |           |        |          |                      |
| Greater Roadrunner          |                |         |             |                 |      |                  |         |              |               |           |        |          |                      |
| Barn Owl                    |                |         | 3           |                 |      |                  |         |              |               |           |        |          |                      |
| E. Screech-Owl              | 2              | 1       | CW          | 4               | 1    |                  |         | 1            |               | 2         |        | 5        | 3                    |
| Great Horned Owl            |                | 1       | 8           | 1               | 14   | 2                |         | 4            | 5             | 3         | 1      | 4        | 1                    |
| Barred Owl                  | 2              | 3       |             | 1               |      |                  |         | 3            | 4             |           |        | 7        | 4                    |

2005-KOS Winter Bird Count Table  
Species

| Species                    | El Dorado Lake | Emporia | Garden City | Halstead-Newton | Hays  | Ingalls/Cimarron | Jetmore | John Redmond | Junction City | Kanopolis | Kirwin | Lawrence | Leavenworth Atchison |
|----------------------------|----------------|---------|-------------|-----------------|-------|------------------|---------|--------------|---------------|-----------|--------|----------|----------------------|
| Long-eared Owl             |                | 1       |             |                 | 1     |                  |         |              |               |           |        | 4        | 1                    |
| Short-eared Owl            |                |         | 3           |                 |       |                  |         |              |               |           |        |          |                      |
| Belted Kingfisher          | 4              |         |             | 5               | 2     |                  |         | 2            | 8             | 2         |        | 3        | 2                    |
| Red-headed Woodpecker      | 1              |         |             |                 |       |                  |         |              |               |           |        | 21       | 13                   |
| Red-bellied Woodpecker     | 9              | 28      | 4           | 49              | 11    |                  | 3       | 40           | 37            | 28        | 10     | 135      | 48                   |
| Yellow-bellied Sapsucker   | 7              |         |             | 1               |       |                  |         | 1            | 6             |           |        | 7        | 2                    |
| Ladder-backed Woodpecker   |                |         |             |                 |       |                  |         |              |               |           |        |          |                      |
| Downy Woodpecker           | 12             | 24      | 10          | 58              | 12    | 3                |         | 27           | 15            | 15        | 12     | 91       | 35                   |
| Hairy Woodpecker           | 3              | 3       | 2           | 6               | 3     | 1                |         | 7            | 8             | 3         | 2      | 22       | 6                    |
| N. Flicker                 | 6              |         | 10          | 29              | 3     | 5                | 4       | 3            | 25            | 12        |        | 35       | 13                   |
| Yellow-shafted             | 35             | 10      | 5           | 26              | 10    |                  |         | 53           | 16            | 8         | 21     | 87       | 21                   |
| Red-shafted                | 1              | 2       | 33          | 4               | 20    | 4                |         |              | 4             | 4         | 3      | 2        | 2                    |
| Pileated Woodpecker        |                | 1       |             |                 |       |                  |         | 3            |               |           |        | 6        | 5                    |
| Eastern Phoebe             |                |         |             |                 |       |                  |         |              |               |           |        |          |                      |
| Loggerhead Shrike          | 3              |         |             | 1               | 1     |                  |         | 1            | 2             | 1         |        |          |                      |
| N. Shrike                  |                |         | 1           |                 |       |                  |         |              | 1             |           |        |          |                      |
| Blue Jay                   | 16             | 46      | 21          | 44              | 5     | 3                |         | 84           | 52            | 12        | 4      | 188      | 120                  |
| Black-billed Magpie        |                |         | 7           |                 | 5     | 4                |         |              |               |           | 5      |          |                      |
| Am. Crow                   | 45             | 58      | 1           | 30              | 16    | 3                |         | 163          | 148           | 27        | 3      | 314      | 86                   |
| Horned Lark                | 200            | 1811    | 181         | 1880            | 11978 | 1495             | 227     | 122          | 171           | 160       | 937    | 310      | 15                   |
| Carolina Chickadee         |                |         |             |                 |       |                  |         |              |               |           |        |          |                      |
| Black-capped Chickadee     | 27             | 62      |             | 36              | 30    |                  |         | 53           | 50            | 37        | 2      | 234      | 93                   |
| Tufted Titmouse            | 10             | 11      |             | 14              |       |                  |         | 8            | 15            |           |        | 112      | 44                   |
| Red-breasted Nuthatch      | 6              | 1       | 7           | CW              | 7     | 1                |         | 2            | 3             |           | 16     | 4        | 1                    |
| White-breasted Nuthatch    | 10             | 23      | 4           | 19              | 10    | 1                | 2       | 9            | 13            | 8         |        | 54       | 47                   |
| Brown Creeper              | 3              | 2       |             | 4               | 4     |                  |         | 4            | 5             | 3         |        | 44       | 4                    |
| Rock Wren                  |                |         |             |                 |       |                  |         |              |               |           |        |          |                      |
| Carolina Wren              | 17             | 5       | 1           | 34              | 2     |                  |         | 9            | 35            | 7         |        | 59       | 29                   |
| Bewick's Wren              |                |         |             |                 |       |                  |         |              | 6             |           |        |          |                      |
| Winter Wren                | 2              |         |             | 8               |       |                  |         | 3            | 2             | 7         |        | 5        | 2                    |
| Marsh Wren                 |                |         |             |                 | 2     |                  |         |              | 1             |           |        | 1        |                      |
| Golden-crowned Kinglet     | 12             | 7       | 8           | 17              | 2     |                  |         | 7            | 11            | 14        |        | 28       | 11                   |
| Ruby-crowned Kinglet       | 6              |         | 2           | 2               |       |                  |         | 2            |               |           |        | 5        | 1                    |
| Kinglet sp.                |                |         |             |                 |       |                  |         |              |               |           |        |          |                      |
| E. Bluebird                | 30             | 33      |             | 34              | 7     |                  |         | 41           | 202           | 47        | 4      | 177      | 94                   |
| Mountain Bluebird          |                |         |             |                 |       |                  |         |              |               |           |        |          |                      |
| Townsend's Solitaire       | 1              |         | 1           |                 |       | 1                |         |              |               |           |        |          |                      |
| Hermit Thrush              |                |         | 1           |                 |       |                  |         | 1            | 2             |           |        | 3        | 5                    |
| Am. Robin                  | 36             | 152     | 77          | 294             | 32    | 102              | 5       | 16           | 664           | 272       | 147    | 4950     | 115                  |
| Gray Catbird               |                |         | 1           |                 |       |                  |         |              |               |           |        |          |                      |
| N. Mockingbird             | 2              | 2       | 12          | 1               |       | 1                |         | 5            | 4             |           |        | 11       | 3                    |
| Brown Thrasher             |                | 1       |             |                 |       |                  |         |              |               |           | 1      |          |                      |
| Curve-billed Thrasher      |                |         |             |                 |       |                  |         |              |               |           |        |          |                      |
| European Starling          | 344            | 2264    | 2222        | 937             | 3584  | 267              | 55      | 1320         | 1479          | 265       | 1653   | 3700     | 1400                 |
| American Pipit             |                |         |             |                 |       |                  |         | 1            |               |           |        |          |                      |
| Cedar Waxwing              |                | 12      |             |                 |       | 5                |         | 50           | 103           | 156       |        | 360      | 12                   |
| Orange-crowned Warbler     |                |         |             |                 |       |                  |         |              |               |           |        |          |                      |
| Yellow-rumped Warbler      | 4              | 1       |             | 12              |       |                  |         | 18           | 106           | 37        |        | 29       | 9                    |
| Spotted Towhee             | 3              | 2       | 4           | 10              |       |                  |         |              | 5             | 2         |        | CW       |                      |
| E. Towhee                  | 1              |         |             |                 |       |                  |         |              |               |           |        |          |                      |
| Am. Tree Sparrow           | 638            | 462     | 48          | 452             | 389   | 45               | 214     | 625          | 385           | 765       | 554    | 603      | 36                   |
| Field Sparrow              |                |         |             |                 |       |                  |         |              |               |           | 287    | 1        |                      |
| Vesper Sparrow             |                |         |             |                 |       |                  |         |              |               |           |        |          |                      |
| Lark Sparrow               | 1              |         |             |                 |       |                  |         |              |               |           |        |          |                      |
| Savannah Sparrow           | 2              | 9       |             | 1               |       |                  |         | 23           |               |           |        | 5        |                      |
| LeConte's                  |                |         |             |                 |       |                  |         |              |               |           |        | 2        |                      |
| Fox Sparrow                |                | 2       |             | 1               |       |                  |         | 12           | 2             | 3         |        | 4        |                      |
| Song Sparrow               | 6              | 20      | 3           | 120             | 24    | 6                |         | 25           | 45            | 44        |        | 205      | 35                   |
| Lincoln's Sparrow          |                |         |             | 1               |       |                  |         |              |               |           |        | 5        |                      |
| Swamp Sparrow              |                | 3       |             |                 |       |                  |         |              |               |           |        | 33       |                      |
| White-throated Sparrow     |                | 2       |             | 10              |       |                  |         | 4            | 1             |           |        | 53       | 3                    |
| Harris' Sparrow            | 304            | 185     | 3           | 992             | 64    |                  |         | 196          | 250           | 875       | 96     | 115      | 26                   |
| White-crowned Sparrow      | 2              | 26      | 435         | 25              | 3     | 97               |         | 19           | 7             | 16        | 4      | 3        | 3                    |
| Dark-eyed Junco            |                |         | 189         |                 | 32    |                  |         | 520          |               | 85        | 41     | 200      |                      |
| Slate-colored              | 377            | 374     | 34          | 2031            | 157   | 74               | 1       |              | 874           | 140       |        | 1931     | 380                  |
| Oregon                     |                | 3       |             | 13              | 7     | 3                |         |              | 2             | 1         | 3      | 9        |                      |
| Pink-sided                 |                |         |             |                 |       |                  |         |              |               |           |        |          |                      |
| McCown's Longspur          |                |         |             |                 |       |                  |         |              |               |           |        |          |                      |
| Lapland Longspur           |                | 42      |             | 5285            | 6370  | 1645             |         |              | 1126          | 45        |        |          |                      |
| Smith's Longspur           |                |         |             |                 |       |                  |         |              |               | 2         |        |          |                      |
| Chestnut-collared Longspur |                |         |             |                 | 2     |                  |         |              |               |           |        |          |                      |
| longspur sp.               |                |         |             |                 |       |                  |         |              |               |           |        | 374      |                      |
| Snow Bunting               |                |         |             |                 | 1     |                  |         | 2            |               |           |        |          |                      |
| N. Cardinal                | 53             | 83      | 3           | 172             | 17    | 1                |         | 70           | 71            | 36        | 23     | 455      | 118                  |
| Red-winged Blackbird       | 256            | 176     | 602         | 906             | 602   | 1181             | 2352    | 580          | 1238          | 1825      | 354    | 5975     |                      |
| E. Meadowlark              | 1              | 118     |             | 1               |       |                  |         | 20           | 9             | 2         |        | 12       | 40                   |
| W. Meadowlark              |                |         | 210         |                 | 548   | 553              | 399     |              | 9             | 13        | 337    | 40       | 2                    |
| Sturnella sp.              | 89             |         |             | 799             |       |                  |         |              | 123           | 78        |        | 127      | 24                   |
| Rusty Blackbird            |                | 15      |             |                 |       | 4                |         | 12           |               | 26        |        | 8        |                      |
| Brewer's Blackbird         | 6              | 14      |             |                 | 4     |                  |         |              |               | 450       |        | 2        |                      |
| Common Grackle             |                | 20      | 222         |                 |       | 1                |         | 3            |               |           |        | 112      | 7                    |
| Great-tailed Grackle       |                | 25      | 300         |                 |       |                  |         |              |               |           |        | 30       | 2                    |
| Brown-headed Cowbird       | 38             | 26      |             | 3               |       |                  |         |              |               | 38        |        | 13       |                      |
| blackbird sp.              |                |         |             |                 |       |                  |         | 90           |               |           |        |          |                      |
| Purple Finch               |                | 4       |             |                 |       |                  |         | 1000         |               |           | 21     |          |                      |
| House Finch                | 24             | 18      | 244         | 43              | 105   | 79               |         | 43           | 90            | 28        | 30     | 241      | 22                   |
| Pine Siskin                |                |         | 4           |                 |       |                  |         |              |               |           | 42     | 1        |                      |
| Am. Goldfinch              | 43             | 72      | 103         | 183             | 8     | 2                | 6       | 85           | 80            | 38        | 154    | 420      | 39                   |
| House Sparrow              | 57             | 35      | 1692        | 166             | 25    | 554              | 73      | 83           | 59            | 130       |        | 235      | 99                   |
| Total                      | 6582           | 19676   | 9810        | 17096           | 24753 | 7033             | 3422    | 11883        | 23641         | 15301     | 7045   | 42659    | 19596                |
| Species                    | 73             | 75      | 60          | 60              | 57    | 42               | 22      | 90           | 80            | 71        | 39     | 97       | 64                   |



2005-KOS Winter Bird Count Table  
Species

|                             | Liberal<br>Seward Co. | Linn<br>County | Manhattan | Meade<br>County | Olathe | Olsburg | Oskaloosa<br>Perry | Parsons | Pomona | Quivira | Red<br>Hills | St. Francis | Salina | Sawyer |
|-----------------------------|-----------------------|----------------|-----------|-----------------|--------|---------|--------------------|---------|--------|---------|--------------|-------------|--------|--------|
| Gr. White-fronted Goose     |                       |                | 6         | 15              |        |         |                    | 9       |        | 104300  |              |             |        | 129    |
| Snow Goose, White form      | 14                    | 201            | 218       | 75              | 2      |         |                    | 606     |        | 75000   | 215          |             |        | 100    |
| Blue Form                   |                       | 100            | 31        | 10              |        |         |                    |         |        | 650     |              |             |        |        |
| Ross' Goose                 | 2                     | 3              |           |                 |        |         |                    |         |        | 120     |              |             |        |        |
| Canada Goose                | 87                    | 943            | 3537      | 2230            | 1781   | 161     | 11,026             | 577     | 479    | 80000   | 2143         | 70          | 672    | 16274  |
| Cackling Goose              | 2                     | 71             | 71        |                 | 5      |         |                    |         |        | 150     | 40           | 26          |        | 100    |
| Goose sp.                   |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Trumpeter Swan              |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Tundra Swan                 |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Wood Duck                   |                       | 1              |           | 3               |        |         |                    |         |        |         |              |             |        | 8      |
| Gadwall                     |                       | 133            | 41        |                 | 79     | 76      | 7                  | 47      |        |         | 3            |             |        | 11     |
| Am. Wigeon                  | 15                    | 2              | 2         |                 |        | 20      |                    |         |        | 2       | 49           |             | 3      |        |
| Mallard                     | 20310                 | 837            | 1029      | 82              | 237    | 2       | 1038               | 7864    | 18     | 3400    | 126          |             | 44     | 59     |
| Blue-winged Teal            |                       |                |           | 8               |        |         |                    |         |        | 2       | 1            |             |        |        |
| Cinammon Teal               |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| N. Shoveler                 | 9                     | 3              | 1         |                 | 22     | 5       | 24                 | 43      | 1      |         |              |             |        |        |
| N. Pintail                  | 61                    | 4              |           | 1               |        |         | 5                  | 30      |        | 30      | 24           |             |        |        |
| Green-winged Teal           | 15                    | 1              | 49        | 24              |        |         | 3                  | 3       |        | 52      |              |             |        |        |
| Canvasback                  | 90                    |                |           | 15              | 17     |         |                    | 7       |        |         | 30           |             |        |        |
| Redhead                     | 1                     |                |           |                 |        | 4       |                    |         |        |         |              |             |        |        |
| Ring-necked Duck            | 4                     | 10             | 7         |                 | 4      | 3       |                    | 628     |        |         | 48           |             |        |        |
| Greater Scaup               | 1                     | 3              |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Lesser Scaup                | 8                     | 30             |           | 1               | 18     |         |                    | 28      |        | 8       |              |             |        |        |
| Long-tailed Duck            |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Bufflehead                  | 1                     |                |           |                 |        | 2       | 3                  | 17      |        | 2       |              |             |        |        |
| Common Goldeneye            | 8                     | 6              | 33        | 4               | 23     | 27      | 23                 | 23      | 31     | 78      |              | 2           | 6      |        |
| Hooded Merganser            |                       | 25             | 131       | 2               | 1      | 6       | 10                 |         | 4      | 9       |              |             |        |        |
| C. Goldeneye x H. Merganser |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Common Merganser            |                       |                | 442       |                 |        | 65      | 762                |         | 5      | 6       |              |             |        |        |
| Ruddy Duck                  |                       |                |           |                 | 4      |         |                    |         |        | 2       |              |             |        |        |
| duck sp.                    |                       |                |           |                 |        | 34      | 20                 |         |        |         |              | 5           | 1      |        |
| Ring-necked Pheasant        | 50                    |                | 2         | 51              |        | 1       |                    |         |        | 28      | 3            |             | 15     | 47     |
| Greater Prairie-Chicken     |                       |                | 24        |                 |        | CW      |                    |         |        |         |              |             | CW     |        |
| Lesser Prairie-Chicken      |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Wild Turkey                 | 18                    | 11             | 398       | 25              | CW     | 326     | 82                 | 23      | 59     | 827     | 31           | 57          |        | 34     |
| Scaled Quail                | 1                     |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| N. Bobwhite                 | 88                    | 2              | 47        | 88              |        | 9       |                    |         | 25     | 40      | 13           |             | CW     | 41     |
| Common Loon                 |                       | 1              |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Pied-billed Grebe           |                       | 20             |           |                 | 1      |         |                    |         |        |         |              |             |        |        |
| Horned Grebe                |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Eared Grebe                 |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Am. White Pelican           |                       |                |           |                 |        |         |                    |         | 1      | 7       |              |             |        |        |
| Double-crested Cormorant    |                       | 7              | 1         |                 |        |         | 1                  |         |        |         |              |             |        |        |
| Neotropical Cormorant       |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Great Blue Heron            | 3                     | 20             | 36        |                 | 4      | 1       | 18                 | 3       | 4      | 11      |              |             | 1      | 7      |
| Great Egret                 |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Turkey Vulture              |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Bald Eagle                  | 2                     | 6              | 21        |                 | 5      | 10      | 7                  | 16      | CW     | 47      | 5            |             | 3      | CW     |
| N. Harrier                  | 45                    | 34             | 24        | 8               |        | 19      | 9                  | 19      | 10     | 97      | 20           | 3           | 2      | 20     |
| Sharp-shinned Hawk          |                       | 2              | 7         |                 | 2      |         |                    | 3       |        | 2       | 5            | 2           | 4      | 1      |
| Cooper's Hawk               | 1                     | 1              | 5         |                 |        | 4       | 1                  |         | 1      | 10      | 5            |             |        |        |
| N. Goshawk                  |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Accipiter sp.               |                       |                |           |                 |        |         | 1                  |         |        |         |              |             |        |        |
| Red-shouldered Hawk         |                       | 6              |           |                 |        |         |                    | 4       |        |         |              |             |        |        |
| Red-tailed Hawk             | 36                    | 101            | 40        | 37              | 40     | 21      | 58                 | 67      | 58     | 136     | 54           | 6           | 58     | 39     |
| Harlan's                    |                       | 2              | 1         | 3               |        | 2       | 2                  | 2       |        | 7       | 2            |             |        |        |
| Krider's                    |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Ferruginous Hawk            | 5                     |                |           | 1               |        |         |                    |         |        | 3       |              |             |        |        |
| Rough-legged Hawk           | 4                     |                | 3         | 2               |        | 1       | 1                  | 1       | 2      | 13      | 2            |             | 1      | 1      |
| Buteo sp.                   |                       |                |           | 11              |        |         |                    |         |        |         |              |             |        | 1      |
| Golden Eagle                |                       | 1              |           | CW              |        |         |                    |         |        |         |              |             |        |        |
| Am. Kestrel                 | 16                    | 34             | 9         | 21              | 11     | 4       | 8                  | 20      | 8      | 54      | 22           | 7           | 36     | 16     |
| Merlin                      | 1                     | 2              | 1         | 1               |        | 2       |                    |         |        | 5       |              |             | 1      |        |
| Peregrine Falcon            |                       |                |           | CW              |        |         |                    |         |        |         |              |             |        |        |
| Prairie Falcon              | 4                     |                |           | 1               |        | 1       |                    |         |        | 5       |              |             |        | 2      |
| Falco sp.                   |                       |                |           |                 |        |         | 3                  |         |        |         |              |             | 1      |        |
| Virginia Rail               |                       |                |           |                 |        |         |                    |         |        | 6       |              |             |        |        |
| Sora                        |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Am. Coot                    |                       | 102            | 1         | 10              | 15     |         |                    | 55      |        |         |              |             |        |        |
| Sandhill Crane              |                       |                |           |                 |        |         |                    |         |        |         | 900          |             |        |        |
| Killdeer                    |                       | 1              | 2         |                 | 2      | 1       |                    | 3       |        |         |              |             |        |        |
| Greater Yellowlegs          |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Least Sandpiper             |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Wilson's Snipe              |                       |                | 1         | 4               |        |         |                    |         |        |         | 1            |             |        |        |
| Bonaparte's Gull            |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Ring-billed Gull            |                       | 124            | 179       |                 | 61     | 4       | 313                | 22      | 276    |         | 1            |             |        |        |
| Herring Gull                |                       | 1              | 9         |                 |        | 2       | 7                  |         | 2      |         |              |             |        |        |
| Thayer's Gull               |                       |                |           |                 |        |         | 1                  |         |        |         |              |             |        |        |
| Iceland Gull                |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Glaucous Gull               |                       |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| gull sp.                    |                       |                |           |                 |        |         | 36                 |         | 2      |         |              |             | 1      |        |
| Rock Pigeon                 | 55                    | 32             | 68        | 3               | 264    | 16      | 29                 | 10      | 6      | 3       | 40           | 3           | 746    | 37     |
| Eurasian Collared Dove      | 15                    | 9              | 6         | 9               |        |         |                    |         |        | 17      |              | 65          | 23     | 3      |
| White-winged Dove           |                       |                |           | 1               |        |         |                    |         |        |         |              |             |        |        |
| Mourning Dove               | 20                    | 26             | 220       | 2               | 97     | 3       | 108                | 139     | 11     | 1       | 115          | 15          | 4      | 5      |
| Inca Dove                   | 3                     |                |           |                 |        |         |                    |         |        |         |              |             |        |        |
| Greater Roadrunner          |                       |                |           |                 |        |         |                    |         |        |         |              |             |        | 1      |
| Barn Owl                    |                       |                |           | 2               |        |         |                    |         |        |         | 1            |             |        |        |
| E. Screech-Owl              | 1                     | 4              | 1         | 10              | 1      | 3       | 1                  |         |        |         | 2            | 1           |        | 1      |
| Great Horned Owl            | 2                     | 6              | 6         | 13              | 1      | 1       | 1                  | 1       |        | 7       | 2            | 1           | 2      | 3      |
| Barred Owl                  |                       | 6              | 17        | 3               | 2      | 2       | 2                  | 1       | 2      |         | 1            |             |        | 1      |

2005-KOS Winter Bird Count Table  
Species

|                            | Liberal<br>Seward Co. | Linn<br>County | Manhattan | Meade<br>County | Olathe | Olsburg | Oskaloosa<br>Perry | Parsons | Pomona | Quivira | Red<br>Hills | St.Francis | Salina | Sawyer |
|----------------------------|-----------------------|----------------|-----------|-----------------|--------|---------|--------------------|---------|--------|---------|--------------|------------|--------|--------|
| Long-eared Owl             |                       |                |           |                 |        |         |                    |         |        | 5       |              |            |        |        |
| Short-eared Owl            | 1                     | 2              |           | 1               |        |         |                    |         |        | 5       |              |            |        |        |
| Belted Kingfisher          |                       | 2              | 15        | 3               | 6      | 1       | 2                  | 5       | 1      | 4       | 4            | 1          |        | 6      |
| Red-headed Woodpecker      |                       | 178            | 2         |                 | 5      | 4       | 10                 | 4       | 2      |         |              |            | 1      |        |
| Red-bellied Woodpecker     | 1                     | 130            | 116       | 9               | 47     | 28      | 47                 | 45      | 24     | 19      | 21           | 3          | 27     | 18     |
| Yellow-bellied Sapsucker   |                       | 8              | 10        |                 |        | 3       | 5                  |         | 4      |         | 3            |            |        | 2      |
| Ladder-backed Woodpecker   |                       |                |           |                 |        |         |                    |         |        |         |              |            |        |        |
| Downy Woodpecker           | 1                     | 76             | 102       | 11              | 44     | 21      | 28                 | 33      | 20     | 12      | 18           | 9          | 24     | 21     |
| Hairy Woodpecker           | 2                     | 16             | 19        | 2               | 7      | 2       | 5                  | 5       | 3      | 8       | 3            | 3          | 2      | 10     |
| N. Flicker                 | 20                    | 56             | 50        | 18              | 33     | 32      | 5                  | 36      | 28     | 73      | 26           | 7          | 3      | 7      |
| Yellow-shafted             | 1                     | 41             | 50        |                 |        | 17      | 46                 |         | 9      | 26      | 35           | 1          | 19     | 12     |
| Red-shafted                | 3                     | 2              | 5         | 3               |        | 3       | 1                  |         |        | 11      | 4            | 1          | 2      | 7      |
| Pileated Woodpecker        |                       | 17             |           |                 |        |         | 1                  | 8       | 3      |         |              |            |        |        |
| Eastern Phoebe             |                       | 1              |           |                 |        |         |                    |         |        |         | 2            |            |        | 1      |
| Loggerhead Shrike          |                       | 8              |           | 7               | 1      |         |                    | 10      |        | 8       | 1            |            | 3      |        |
| N. Shrike                  |                       |                |           |                 |        |         |                    |         |        | 2       |              | 1          |        |        |
| Blue Jay                   | 2                     | 187            | 179       | 1               | 111    | 99      | 129                | 82      | 45     | 2       | 23           |            | 13     | 3      |
| Black-billed Magpie        |                       |                |           |                 |        |         |                    |         |        |         | 3            | 1          |        |        |
| Am. Crow                   | 6                     | 248            | 4796      | 12              | 138    | 1811    | 202                | 177     | 43     | 25      | 313          |            | 35     | 27     |
| Horned Lark                | 185                   | 32             | 433       | 854             | 24     | 1       | 274                | 533     |        | 121     | 10           | 671        | 202    | 831    |
| Carolina Chickadee         |                       |                |           |                 |        |         |                    | 54      |        |         | 26           |            |        | 17     |
| Black-capped Chickadee     |                       | 163            | 195       | 2               | 124    | 72      | 98                 |         | 43     |         |              | 1          | 49     | 26     |
| Tufted Titmouse            |                       | 121            | 82        |                 | 22     | 18      | 79                 | 6       | 20     |         | 11           |            |        | 12     |
| Red-breasted Nuthatch      | 4                     |                | 4         | 2               | 2      | 1       |                    |         |        |         |              |            | 1      | CW     |
| White-breasted Nuthatch    | 2                     | 58             | 85        | 2               | 20     | 15      | 40                 | 9       | 8      | 10      | 9            | 10         | 22     | 30     |
| Brown Creeper              |                       | 17             | 8         |                 | 1      | 1       | 3                  |         | 2      | 1       |              |            | 5      | 5      |
| Rock Wren                  |                       |                |           |                 |        |         |                    |         |        |         |              |            |        |        |
| Carolina Wren              |                       | 62             | 60        |                 | 21     | 3       | 22                 | 19      | 7      | 4       | 17           |            | 3      | 16     |
| Bewick's Wren              |                       |                | 1         |                 |        | 1       |                    |         |        |         | 2            |            |        |        |
| Winter Wren                | 1                     | 2              | 8         | 4               | 1      |         | 3                  | 2       | 2      | 1       | 1            | 1          |        | 6      |
| Marsh Wren                 | 6                     |                |           | 5               |        |         |                    |         |        | 4       | 7            | 1          |        | 6      |
| Golden-crowned Kinglet     |                       | 17             | 21        | 13              | 5      | 1       | 12                 | 4       |        | 4       | 3            |            | 3      | 9      |
| Ruby-crowned Kinglet       | 2                     | 2              | 3         |                 | 1      |         | 1                  | 2       | 3      |         | 13           |            | 1      | 1      |
| Kinglet sp.                |                       |                |           |                 |        | 3       |                    |         |        |         |              |            |        |        |
| E. Bluebird                |                       | 222            | 159       | 16              | 83     | 76      | 84                 | 97      | 34     | 31      | 211          | 11         | 24     | 36     |
| Mountain Bluebird          |                       |                |           |                 |        |         |                    |         |        |         | 54           |            |        |        |
| Townsend's Solitaire       | 2                     |                |           | CW              |        |         |                    |         |        |         | 2            | 3          | 3      |        |
| Hermit Thrush              |                       | 1              |           |                 |        | 3       | 1                  |         |        |         |              |            |        |        |
| Am. Robin                  | 179                   | 87             | 393       | 40              | 294    | 86      | 13                 | 395     | 233    | 5       | 1248         | 42         | 34     | 1025   |
| Gray Catbird               |                       |                |           |                 |        |         |                    |         |        |         |              |            |        |        |
| N. Mockingbird             |                       |                | 1         |                 | 4      | 7       | 1                  | 25      | 7      | 2       | 2            |            |        |        |
| Brown Thrasher             |                       | 30             |           |                 |        |         | 1                  |         |        |         |              |            |        |        |
| Curve-billed Thrasher      | 2                     |                |           |                 |        |         |                    |         |        |         |              |            |        |        |
| European Starling          | 3245                  | 928            | 2093      | 467             | 1402   | 361     | 420                | 435     | 313    | 1111    | 265          | 133        | 2513   | 2059   |
| American Pipit             |                       |                |           |                 | 1      |         |                    |         |        |         |              |            |        |        |
| Cedar Waxwing              | 12                    | 311            | 134       | 7               | 33     | 23      | 1                  | 88      | 30     | 1       | 279          | 45         |        | 37     |
| Orange-crowned Warbler     |                       |                |           |                 |        |         |                    |         |        |         |              |            |        |        |
| Yellow-rumped Warbler      | 1                     | 49             | 22        | CW              | 6      | 8       |                    | 4       | 3      | 6       | 259          |            | 9      | 33     |
| Spotted Towhee             | 5                     | 2              | 22        |                 |        | 5       | 2                  |         |        | 4       | 11           |            |        |        |
| E. Towhee                  |                       | 1              | 2         |                 |        |         |                    |         |        |         |              |            |        |        |
| Am. Tree Sparrow           | 29                    | 227            | 2060      | 33              | 84     | 606     | 308                | 112     | 303    | 460     | 787          | 107        | 155    | 228    |
| Field Sparrow              |                       | 4              |           |                 |        |         |                    |         | 27     |         | 9            |            |        | 3      |
| Vesper Sparrow             |                       |                |           |                 |        |         |                    |         |        |         |              |            |        |        |
| Lark Sparrow               |                       |                |           |                 |        |         |                    |         |        |         |              | 1          |        |        |
| Savannah Sparrow           | 3                     | 15             |           |                 | 1      | 1       |                    | 57      |        | 5       | 46           |            |        | 1      |
| LeConte's                  |                       |                |           |                 |        |         |                    |         |        |         |              |            |        |        |
| Fox Sparrow                |                       | 8              | 11        |                 | 1      | 1       | 3                  | 1       |        | 1       | 14           |            |        |        |
| Song Sparrow               | 13                    | 110            | 130       | 22              | 121    | 15      | 45                 | 104     | 12     | 51      | 60           | 13         | 4      | 27     |
| Lincoln's Sparrow          |                       |                | 3         |                 | 1      | 4       | 8                  | 7       |        | 1       | 1            |            |        |        |
| Swamp Sparrow              |                       | 37             |           |                 | 8      |         |                    | 24      |        | 3       | 8            |            |        | 4      |
| White-throated Sparrow     | 1                     | 98             | 9         |                 | 16     | 4       | 15                 | 43      |        |         | 15           |            |        | 15     |
| Harris' Sparrow            | 4                     | 35             | 892       | 15              | 8      | 114     | 108                | 80      | 60     | 188     | 588          |            | 221    | 381    |
| White-crowned Sparrow      | 176                   | 67             | 16        | 44              | 10     | 3       | 1                  | 89      |        | 18      | 69           | 6          | 1      | 7      |
| Dark-eyed Junco            | 94                    | 317            | 3998      | 75              | 1      | 566     | 1683               | 664     | 280    | 155     |              | 183        | 763    | 244    |
| Slate-colored              | 22                    | 524            |           |                 | 395    |         | 35                 |         | 2      | 306     | 1432         | 100        |        | 100    |
| Oregon                     | 1                     | 1              | 12        |                 |        |         |                    |         |        | 7       | 1            | 6          |        | 1      |
| Pink-sided                 |                       |                |           |                 | 1      |         |                    |         |        |         | 1            | 19         |        |        |
| McCown's Longspur          |                       |                |           |                 |        |         |                    |         |        |         |              |            |        |        |
| Lapland Longspur           | 210                   | 150            | 39        | CW              | 14     |         |                    | 100     | 2      |         |              | 2          |        | 100    |
| Smith's Lonspur            |                       |                |           | CW              |        |         |                    |         |        |         |              |            |        |        |
| Chestnut-collared Longspur | 5                     |                |           | CW              |        |         |                    |         |        |         |              |            |        |        |
| longspur sp.               |                       |                |           | 2               |        | 23      |                    |         |        |         |              |            |        |        |
| Snow Bunting               |                       |                |           |                 |        |         |                    |         |        |         |              |            |        |        |
| N. Cardinal                | 1                     | 137            | 447       | 6               | 73     | 33      | 177                | 100     | 153    | 34      | 104          |            | 74     | 54     |
| Red-winged Blackbird       | 175056                | 1033           | 294       | 266             | 1      | 40      | 246                | 207     | 1535   | 2000000 | 536          | 8          | 2564   | 1839   |
| E. Meadowlark              |                       | 55             | 212       |                 | 12     | 1       | 33                 | 455     | 61     |         | 53           |            |        | 5      |
| W. Meadowlark              | 264                   | 1              | 7         | 497             |        |         |                    |         |        | 5       | 1            | 28         | 4      | 3      |
| Sturmella sp.              |                       | 295            | 211       |                 |        | 4       | 177                |         |        | 383     | 273          |            | 259    | 376    |
| Rusty Blackbird            |                       | 5              | 2         |                 |        |         | 23                 | 46      |        |         |              |            | 84     | 70     |
| Brewer's Blackbird         | 7                     |                | 1         |                 |        | 1       | 4                  | 11      |        | 10      | 3200         |            | 85     |        |
| Common Grackle             | 2                     | 2              |           | CW              | 15     | CW      | 3                  | 82      |        |         | 5            |            | 30     |        |
| Great-tailed Grackle       | 1000                  |                |           | CW              | 5      |         |                    |         |        | 115     |              |            |        |        |
| Brown-headed Cowbird       | 5                     |                | 47        | 1               | 15     | CW      |                    |         |        | 7       | 180          |            | 3      | 3      |
| blackbird sp.              |                       |                |           | 300             |        |         |                    |         |        |         |              |            | 195    | 125    |
| Purple Finch               |                       | 2              | 4         |                 |        | 2       | 4                  |         | 2      |         |              |            |        |        |
| House Finch                | 160                   | 3              | 399       | 12              | 18     | 34      | 52                 | 5       | 40     | 12      | 226          | 19         | 31     | 64     |
| Pine Siskin                |                       |                | 30        | 1               |        | 16      |                    |         | 2      |         | 18           | 21         |        |        |
| Am. Goldfinch              | 2                     |                | 554       | 27              | 48     | 205     | 60                 | 44      | 42     | 42      | 96           | 54         | 114    | 78     |
| House Sparrow              | 250                   |                | 263       | 122             | 135    | 8       | 57                 | 21      | 44     | 45      | 26           | 165        | 471    | 86     |
| Total                      | 201986                | 9137           | 25438     | 5678            | 6118   | 5225    | 18188              | 14601   | 4457   | 2268473 | 14557        | 1940       | 9681   | 25017  |
| Species                    | 75                    | 93             | 87        | 65              | 72     | 76      | 71                 | 73      | 60     | 77      | 84           | 42         | 53     | 68     |

2005-KOS Winter Bird Count Table

| Species                     | Scott Lake | Seneca | Slate Creek Oxford | SE KS Mine Lands | Topeka | U'dall Winfield | Ulysses | Waconda Lake | Wakefield | Webster Reservoir | Wichita | Wilson Lake | Yoder | Totals |
|-----------------------------|------------|--------|--------------------|------------------|--------|-----------------|---------|--------------|-----------|-------------------|---------|-------------|-------|--------|
| Gr. White-fronted Goose     | 1          |        | 3                  |                  |        | 3               |         |              |           | 33                | 1       | 6           | 2     | 104577 |
| Snow Goose, White form      | 4          | 13575  | 19                 |                  | 2      | 36              |         | 2000         | 75        | 2                 | 1       | 5           |       | 122711 |
| Blue Form                   | 1          | 1500   | 1                  |                  |        | 15              |         | 500          |           |                   | 2       |             |       | 11267  |
| Ross' Goose                 |            |        |                    |                  | 1      |                 |         | 20           |           |                   |         |             |       | 159    |
| Canada Goose                | 262        | 480    | 678                | 49               | 12774  | 5084            | 247     | 4000         | 995       | 20020             | 5748    | 5950        | 238   | 248046 |
| Cackling Goose              | 54         | 88     | 28                 |                  | 2      | 943             | 6       | 120          | 10        | 122               | 359     | 185         |       | 4829   |
| Goose sp.                   |            |        |                    |                  |        |                 |         |              |           |                   |         |             |       | 140    |
| Trumpeter Swan              |            |        |                    |                  | 1      |                 |         |              |           |                   |         | 4           |       | 11     |
| Tundra Swan                 |            |        |                    |                  |        |                 |         |              |           |                   |         |             |       | 4      |
| Wood Duck                   | 10         |        | 9                  |                  |        | 11              |         |              |           |                   | 27      |             |       | 145    |
| Gadwall                     | 2          |        | 5                  |                  | 70     | 86              |         |              | 5         |                   | 223     | 19          |       | 1328   |
| Am. Wigeon                  | 2          | 1      | 8                  |                  |        | 215             | 2       |              |           | 2                 | 76      | 12          |       | 939    |
| Mallard                     | 679        | 1302   | 2412               | 2                | 1040   | 7077            | 113     | 65           | 1341      | 3500              | 2123    | 1558        | 175   | 77497  |
| Blue-winged Teal            |            |        |                    |                  |        |                 |         |              |           |                   | 2       |             |       | 6      |
| Cinammon Teal               |            |        |                    |                  |        |                 |         |              |           |                   |         |             |       | 8      |
| N. Shoveler                 |            |        | 18                 |                  | 1      | 1               | 3       |              | 1         |                   | 202     |             |       | 508    |
| N. Pintail                  | 15         | 1      | 3                  |                  | 2      | 15              | 6       |              | 2         | 50                | 6       |             |       | 296    |
| Green-winged Teal           | 2          |        | 12                 |                  |        | 7               | 14      |              |           | 4                 | 358     | 23          | 3     | 619    |
| Canvasback                  |            | 1      |                    | 7                |        |                 |         |              |           |                   | 14      | 3           |       | 205    |
| Redhead                     |            |        |                    |                  | 1      |                 |         |              |           | 3                 | 20      | 19          |       | 61     |
| Ring-necked Duck            |            | 1      | 8                  |                  | 15     | 34              |         | 1            |           |                   | 39      |             |       | 1016   |
| Greater Scaup               |            |        | 1                  |                  | 6      |                 |         |              |           |                   |         |             |       | 31     |
| Lesser Scaup                |            |        | 22                 |                  |        | 7               |         |              |           | 1                 | 498     | 12          |       | 674    |
| Long-tailed Duck            |            |        |                    |                  |        |                 |         |              |           |                   |         | 1           |       | 1      |
| Bufflehead                  |            |        |                    |                  |        |                 |         |              | 8         |                   | 102     | 35          |       | 198    |
| Common Goldeneye            |            | 3      | 94                 |                  | 108    | 90              |         | 28           | 22        | 36                | 90      | 910         |       | 6457   |
| Hooded Merganser            |            |        | 2                  |                  | 30     | 33              |         | 4            | 6         | 1                 | 51      | 115         |       | 715    |
| C. Goldeneye x H. Merganser |            |        |                    |                  |        |                 |         |              |           |                   | 1       |             |       | 1      |
| Common Merganser            | 9          |        | 89                 |                  | 24     | 3000            |         | 15           | 4138      | 34                | 17      | 650         |       | 33845  |
| Ruddy Duck                  |            |        |                    |                  |        |                 |         |              |           |                   | 29      |             |       | 47     |
| duck sp.                    |            |        |                    | 10               |        |                 |         |              |           |                   |         |             | 7     | 328    |
| Ring-necked Pheasant        | 133        | 2      | 2                  |                  |        | 4               | 69      | 215          | 6         | 22                | 1       | 10          | 29    | 1403   |
| Greater Prairie-Chicken     |            |        |                    |                  |        |                 |         | 8            |           |                   |         | 40          |       | 182    |
| Lesser Prairie-Chicken      |            |        |                    |                  |        |                 |         |              |           |                   |         |             |       | 5      |
| Wild Turkey                 | 57         |        | 42                 | 32               | 42     | 15              |         | 6            | 23        |                   | 27      | 9           | 10    | 4057   |
| Scaled Quail                |            |        |                    |                  |        |                 |         |              |           |                   |         |             |       | 39     |
| N. Bobwhite                 | 15         | 15     | 7                  | 1                | 6      | 22              | 39      | 1            | 2         | 1                 | 9       | 1           | 12    | 872    |
| Common Loon                 |            |        |                    |                  |        |                 |         |              |           |                   |         | 1           |       | 5      |
| Pied-billed Grebe           |            |        |                    |                  | 8      | 4               |         |              |           |                   | 8       |             |       | 47     |
| Horned Grebe                |            |        |                    |                  |        |                 |         |              |           |                   |         |             |       | 1      |
| Eared Grebe                 |            |        |                    |                  |        |                 |         |              |           |                   |         |             |       | 1      |
| Am. White Pelican           |            |        |                    |                  | 1      |                 |         |              | 1         |                   |         |             |       | 62     |
| Double-crested Cormorant    |            |        |                    |                  |        | 1               |         | 1            | 1         |                   | 2       | CW          |       | 84     |
| Neotropical Cormorant       |            |        |                    |                  |        |                 |         |              |           |                   |         |             |       | 1      |
| Great Blue Heron            | 1          |        | 6                  | 5                | 2      | 4               |         | 9            | 3         |                   | 33      | 2           |       | 320    |
| Great Egret                 |            |        |                    |                  |        |                 |         |              |           |                   | 3       |             |       | 3      |
| Turkey Vulture              |            |        |                    | 2                |        |                 |         |              |           |                   |         |             |       | 2      |
| Bald Eagle                  | 1          |        | 15                 | 1                | 6      | 13              |         | 5            | 65        | 8                 | 14      | 12          |       | 686    |
| N. Harrier                  | 12         | 2      | 27                 | 20               | 3      | 75              | 35      | 37           | 21        | 37                |         | 25          | 38    | 1143   |
| Sharp-shinned Hawk          | 1          | 1      | 3                  | 1                | 3      | 4               | 6       | 1            | 2         | 4                 | 4       | 1           |       | 106    |
| Cooper's Hawk               |            |        | 2                  | 1                | 1      | 6               | 3       | 3            | 1         | 1                 | 3       | 2           |       | 89     |
| N. Goshawk                  | 1          |        |                    |                  |        |                 |         |              |           | 1                 |         |             |       | 2      |
| Accipiter sp.               |            |        |                    |                  |        |                 |         |              |           |                   |         |             |       | 2      |
| Red-shouldered Hawk         |            |        | 1                  | 2                |        |                 |         |              |           |                   |         | 1           |       | 15     |
| Red-tailed Hawk             | 15         | 13     | 107                | 42               | 34     | 83              | 43      | 55           | 44        | 53                | 43      | 42          | 16    | 2546   |
| Harlan's                    |            |        | 1                  |                  |        | 1               | 4       |              | 2         |                   |         |             | 1     | 51     |
| Krider's                    |            |        |                    |                  |        |                 |         |              | 1         |                   |         |             |       | 4      |
| Ferruginous Hawk            | 2          |        |                    |                  |        |                 | 6       |              |           | 1                 |         |             |       | 67     |
| Rough-legged Hawk           | 7          |        |                    | 1                |        |                 | 7       | 2            |           | 8                 |         | CW          |       | 135    |
| Buteo sp.                   |            |        |                    |                  |        |                 | 3       |              |           |                   |         |             | 1     | 28     |
| Golden Eagle                |            |        |                    |                  |        |                 |         | 1            |           |                   |         |             |       | 7      |
| Am. Kestrel                 | 10         | 4      | 24                 | 40               | 11     | 37              | 14      | 2            | 6         | 38                | 14      | 68          | 11    | 1006   |
| Merlin                      |            |        | 1                  |                  |        |                 | 1       | 1            | 2         | 1                 | 1       | 1           |       | 29     |
| Peregrine Falcon            |            |        |                    |                  |        |                 |         |              |           |                   |         |             |       | 4      |
| Prairie Falcon              | 2          | 1      | 1                  |                  | 1      | 3               | 6       | 2            | 2         | 4                 | 1       | 1           | 2     | 69     |
| Falco sp.                   |            |        | 1                  |                  |        |                 |         |              |           |                   |         |             |       | 5      |
| Virginia Rail               | 2          |        |                    |                  |        |                 |         |              |           |                   |         |             |       | 17     |
| Sora                        |            |        |                    |                  |        |                 |         |              |           |                   |         |             |       | 1      |
| Am. Coot                    |            |        |                    |                  | 2      | 3               |         |              |           |                   | 51      | 863         |       | 1164   |
| Sandhill Crane              |            |        |                    |                  |        |                 |         |              |           |                   | 21      |             |       | 921    |
| Killdeer                    |            |        | 13                 |                  | 1      | 2               |         |              |           |                   |         |             |       | 37     |
| Greater Yellowlegs          |            |        |                    |                  |        | 1               |         |              |           |                   |         |             |       | 1      |
| Least Sandpiper             |            |        |                    |                  |        |                 |         |              |           |                   |         |             |       | 1      |
| Wilson's Snipe              |            |        | 1                  |                  | 1      | 1               |         |              |           |                   | 1       |             |       | 14     |
| Bonaparte's Gull            |            |        |                    |                  |        |                 |         |              |           |                   |         |             |       | 31     |
| Ring-billed Gull            |            |        | 19                 |                  | 20     | 50              |         | 6            | 925       | 27                | 517     | 310         | 38    | 7976   |
| Herring Gull                |            |        | 2                  |                  | 2      | 5               |         | 4            | 14        | 15                | 167     | 95          |       | 767    |
| Thayer's Gull               |            |        |                    |                  |        |                 |         |              |           |                   | 1       | 1           |       | 7      |
| Iceland Gull                |            |        |                    |                  |        |                 |         |              |           |                   |         |             |       | 1      |
| Glaucous Gull               |            |        |                    |                  |        |                 |         |              |           |                   | 1       |             |       | 5      |
| gull sp.                    |            |        |                    |                  | 15     |                 |         |              |           |                   |         |             | 3     | 57     |
| Rock Pigeon                 | 71         | 1      | 5                  | 11               | 19     | 103             | 156     | 10           | 39        | 128               | 656     | 8           | 60    | 7343   |
| Eurasian Collared Dove      | 365        | 2      | 24                 | 1                | 7      |                 | 165     | 1            |           | 4                 | 1       | 14          | 43    | 1374   |
| White-winged Dove           |            |        |                    |                  |        |                 |         |              |           |                   |         |             |       | 64     |
| Mourning Dove               | 5          | 1      | 171                | 63               | 190    | 273             | 8       | CW           | 1         |                   | 52      | 45          | 26    | 2585   |
| Inca Dove                   |            |        |                    |                  |        |                 | 3       |              |           |                   |         |             |       | 14     |
| Greater Roadrunner          |            |        |                    |                  |        |                 |         |              |           |                   |         |             |       | 2      |
| Barn Owl                    | 1          |        | 1                  |                  | 2      | 1               | 2       |              | 1         | CW                |         |             |       | 25     |
| E. Screech-Owl              | 13         |        | 2                  | 3                | 2      | 4               |         | 10           | 1         | 4                 | 1       | 13          |       | 149    |
| Great Horned Owl            | 4          | 2      | 25                 | 2                |        | 9               | 5       | 1            | 1         | CW                | 1       | 3           |       | 212    |
| Barred Owl                  |            | 1      | 14                 |                  |        | 14              |         | 1            | 5         |                   | 3       |             |       | 155    |

2005-KOS Winter Bird Count Table  
Species

| Species                    | Scott Lake | Seneca | Slate Creek Oxford | SE KS Mine Lands | Topeka | Udall Winfield | Ulysses | Waconda Lake | Wakefield | Webster Reservoir | Wichita | Wilson Lake | Yoder | Totals  |
|----------------------------|------------|--------|--------------------|------------------|--------|----------------|---------|--------------|-----------|-------------------|---------|-------------|-------|---------|
| Long-eared Owl             |            |        |                    |                  |        | 1              | 1       | 3            |           |                   | 2       |             |       | 37      |
| Short-eared Owl            |            |        | 2                  |                  |        | 1              |         |              |           |                   |         |             |       | 32      |
| Belted Kingfisher          | 1          | 2      | 3                  |                  | 2      | 7              |         | 4            | 5         |                   | 10      | 3           |       | 137     |
| Red-headed Woodpecker      |            |        |                    | 16               | 8      | 7              |         | 1            | 2         |                   |         |             |       | 378     |
| Red-bellied Woodpecker     | 8          | 10     | 37                 | 58               | 56     | 75             | 1       | 10           | 39        | 11                | 17      | 22          | 6     | 1536    |
| Yellow-bellied Sapsucker   | 2          |        | 2                  | 6                | 5      | 6              |         |              | 1         |                   | 2       |             |       | 244     |
| Ladder-backed Woodpecker   |            |        |                    |                  |        |                |         |              |           |                   |         |             |       | 9       |
| Downy Woodpecker           | 17         | 5      | 29                 | 34               | 54     | 27             | 8       | 8            | 37        | 7                 | 31      | 20          | 3     | 1222    |
| Hairy Woodpecker           | 2          | 3      | 5                  | 5                | 8      | 5              | 1       | 4            | 7         | 5                 | 5       | 1           | 3     | 331     |
| N. Flicker                 | 24         | 10     | 20                 | 62               |        | 18             | 12      | 23           | 13        | 49                | 39      | 58          | 8     | 1133    |
| Yellow-shafted             | 7          |        | 24                 |                  | 37     | 34             | 8       |              | 19        | 1                 | 33      | 4           |       | 818     |
| Red-shafted                | 10         |        | 5                  |                  |        | 5              | 15      | 2            | 4         | 1                 | 4       | 2           |       | 293     |
| Pileated Woodpecker        |            |        | 5                  | 2                | 1      | 5              |         |              |           |                   |         |             |       | 71      |
| Eastern Phoebe             |            |        |                    |                  |        |                |         |              |           |                   |         |             |       | 10      |
| Loggerhead Shrike          |            |        | 6                  | 9                |        | 1              | 1       |              |           |                   |         | 1           |       | 83      |
| N. Shrike                  | 1          |        |                    |                  |        |                |         |              |           |                   |         | 2           |       | 10      |
| Blue Jay                   | 2          | 4      | 67                 | 79               | 137    | 143            | 5       | 5            | 29        |                   | 90      |             | 3     | 2408    |
| Black-billed Magpie        | 3          |        |                    |                  |        |                | 8       |              |           | 3                 |         |             |       | 255     |
| Am. Crow                   |            | 43     | 58                 | 236              | 80     | 180            | 154     | 8            | 67        | 14                | 1392    | 3           | 8     | 16912   |
| Horned Lark                | 416        | 15     | 224                | 270              | 99     | 12368          | 1584    | 800          |           | 686               | 190     | 22          | 4868  | 58742   |
| Carolina Chickadee         |            |        | 110                | 92               |        | 74             |         |              |           |                   |         |             |       | 867     |
| Black-capped Chickadee     |            | 19     |                    |                  | 94     | 37             |         | 16           | 35        | 7                 | 47      | 13          | 16    | 1934    |
| Tufted Titmouse            |            | 1      | 30                 | 37               | 26     | 46             |         |              | 8         |                   | 4       |             |       | 1091    |
| Red-breasted Nuthatch      | 3          |        | 2                  |                  | 4      | 4              |         |              | 4         |                   | 5       | 1           |       | 219     |
| White-breasted Nuthatch    | 12         | 2      | 25                 | 15               | 23     | 31             | 1       | 14           | 21        | 11                | 5       | 16          | 2     | 887     |
| Brown Creeper              | 3          | 1      | 10                 | 3                | 13     | 8              |         | 4            | 2         |                   | 7       | 3           |       | 216     |
| Rock Wren                  |            |        |                    |                  |        |                |         |              |           |                   |         |             |       | 45      |
| Carolina Wren              |            | 1      | 25                 | 21               | 27     | 20             |         | 2            | 15        | 1                 | 24      |             |       | 674     |
| Bewick's Wren              |            |        |                    |                  |        |                |         |              | 1         |                   |         |             |       | 74      |
| Winter Wren                | 1          | 4      | 2                  | 1                | 2      | 2              |         |              | 3         |                   | 7       | 3           |       | 99      |
| Marsh Wren                 | 1          |        |                    |                  |        |                |         |              |           |                   |         | 4           |       | 51      |
| Golden-crowned Kinglet     | 5          | 8      | 17                 | 6                | 17     | 5              |         | 3            | 21        |                   | 15      | 8           | 2     | 373     |
| Ruby-crowned Kinglet       | 1          |        | 11                 | 4                | 2      | 6              |         |              |           |                   | 18      |             |       | 139     |
| Kinglet sp.                |            |        |                    |                  |        |                |         |              |           |                   |         |             |       | 8       |
| E. Bluebird                | 32         |        | 70                 | 108              | 89     | 104            | 1       | 30           | 88        | 24                | 4       | 66          | 44    | 2879    |
| Mountain Bluebird          |            |        |                    |                  |        |                |         |              |           |                   |         |             |       | 241     |
| Townsend's Solitaire       | 11         |        |                    |                  |        |                | 2       |              |           |                   |         |             |       | 43      |
| Hermit Thrush              | 3          |        | 1                  | 1                |        |                |         |              |           |                   |         | 4           |       | 42      |
| Am. Robin                  | 312        | 18     | 34                 | 164              | 1912   | 95             | 105     |              | 342       | 245               | 156     | 530         | 6     | 14132   |
| Gray Catbird               |            |        |                    |                  |        |                |         |              |           |                   |         |             |       | 4952    |
| N. Mockingbird             |            |        | 6                  | 19               | 2      | 10             | 2       |              |           |                   | 2       | 1           |       | 175     |
| Brown Thrasher             |            |        |                    |                  |        |                |         |              |           |                   |         |             |       | 44      |
| Curve-billed Thrasher      |            |        |                    |                  |        |                |         |              |           |                   |         |             |       | 3       |
| European Starling          | 1065       | 338    | 906                | 704              | 5765   | 816            | 333     | 250          | 80        | 380               | 4306    | 1195        | 1044  | 74711   |
| American Pipit             |            |        | 14                 |                  |        | 1              |         |              |           | 1                 |         |             |       | 3721    |
| Cedar Waxwing              | 31         |        | 2                  | 224              | 128    | 15             | 2       |              | 73        |                   |         | 33          |       | 2133    |
| Orange-crowned Warbler     |            |        |                    |                  |        |                |         |              |           |                   | 1       |             |       | 361     |
| Yellow-rumped Warbler      | 6          |        | 9                  | 31               | 21     | 3              |         |              | 69        | 1                 | 61      | 51          |       | 956     |
| Spotted Towhee             | 5          | 2      | 6                  |                  | CW     | 3              |         |              | 5         | 9                 | 23      | 13          |       | 198     |
| E. Towhee                  |            |        |                    |                  |        |                |         |              |           |                   |         |             |       | 4       |
| Am. Tree Sparrow           | 74         | 52     | 782                | 4                | 236    | 1127           | 158     | 3000         | 336       | 800               | 479     | 1100        | 690   | 24230   |
| Field Sparrow              |            |        | 4                  |                  | 55     | 9              |         |              | 1         |                   | 1       | 9           | 187   | 1350    |
| Vesper Sparrow             |            |        |                    |                  |        |                |         |              |           |                   |         |             |       | 4       |
| Lark Sparrow               |            |        |                    | 1                |        |                |         |              |           |                   |         |             |       | 3       |
| Savannah Sparrow           |            |        | 268                | 21               |        | 174            |         |              |           | 1                 | 11      |             |       | 777     |
| LeConte's                  |            |        |                    |                  |        |                |         |              |           |                   | 3       |             |       | 10      |
| Fox Sparrow                | 1          |        | 11                 |                  |        | 7              |         |              | 10        | 4                 | 5       |             | 13    | 132     |
| Song Sparrow               | 32         | 2      | 205                | 16               | 55     | 123            | 12      | 1            | 31        | 18                | 330     | 129         | 19    | 2541    |
| Lincoln's Sparrow          |            |        | 9                  |                  | 2      | 4              |         |              |           | 1                 | 1       |             |       | 264     |
| Swamp Sparrow              | 1          |        | 52                 | 15               |        | 1              | 1       |              | 1         |                   | 6       | 2           |       | 202     |
| White-throated Sparrow     |            |        | 16                 | 128              | 123    | 2              |         |              | 10        |                   | 37      | 1           | 2     | 662     |
| Harris' Sparrow            | 2          | 3      | 828                | 110              | 194    | 2983           |         | 360          | 182       | 125               | 374     | 275         | 422   | 13350   |
| White-crowned Sparrow      | 8          |        | 301                | 107              | 3      | 72             | 359     | 30           | 46        | 68                | 17      | 68          | 17    | 2636    |
| Dark-eyed Junco            |            | 57     | 310                | 277              |        | 4429           | 186     |              | 483       |                   | 337     | 300         | 898   | 19356   |
| Slate-colored              | 139        |        | 582                |                  | 1331   | 1867           | 23      | 420          |           | 334               | 749     | 600         | 322   | 17513   |
| Oregon                     | 42         |        | 5                  |                  | 4      | 34             | 10      | 1            |           | 23                | 2       | 22          | 8     | 2217    |
| Pink-sided                 |            |        |                    |                  |        |                |         |              |           |                   | 1       |             |       | 34      |
| McCown's Longspur          |            |        |                    |                  |        |                |         |              |           |                   |         |             | 1500  | 1567    |
| Lapland Longspur           | 41226      | 3      | 16875              | 26               |        | 9438           | 13      | 3500         |           | 731               | 8       | 2           | 1152  | 89776   |
| Smith's Longspur           |            |        |                    |                  |        |                |         |              |           |                   |         |             |       | 2       |
| Chestnut-collared Longspur |            |        |                    |                  |        |                |         |              |           |                   |         |             |       | 101     |
| longspur sp.               |            |        |                    | 110              |        |                |         |              |           |                   |         |             |       | 509     |
| Snow Bunting               |            |        |                    |                  |        |                |         |              |           |                   |         |             |       | 3       |
| N. Cardinal                | 22         | 16     | 203                | 118              | 169    | 242            | 2       | 14           | 112       | 38                | 198     | 38          | 27    | 4101    |
| Red-winged Blackbird       | 255        |        | 20428              | 1352             | 181    | 7126           | 235     | 4220         | 383       | 440               | 280     | 290         | 1066  | 2337485 |
| E. Meadowlark              |            |        | 7                  |                  | 98     | 130            |         |              |           |                   |         |             |       | 7329    |
| W. Meadowlark              | 108        | 34     | 1                  | 1                |        | 1              | 423     | 320          | 28        | 178               | 1       | 50          |       | 5467    |
| <i>Sturnella</i> sp.       |            |        | 650                | 270              |        | 1339           |         |              | 72        |                   | 130     | 40          | 488   | 7544    |
| Rusty Blackbird            |            |        | 17                 | 6                | 20     | 230            |         | 15           |           | 1                 |         | 2           |       | 1049    |
| Brewer's Blackbird         |            |        | 21                 | 10               | 22     | 310            |         |              |           | 30                |         | 400         | 71    | 14736   |
| Common Grackle             | 1          |        | 14                 | 5                |        |                | 1       | 1            |           |                   | 1200    | 2           |       | 2047    |
| Great-tailed Grackle       |            |        | 58                 |                  |        |                |         |              |           |                   |         |             |       | 1759    |
| Brown-headed Cowbird       |            |        | 65                 | 1                | 1      | 17             | 25      | 10           | 3         | 2                 |         | 75          | 5     | 5727    |
| blackbird sp.              |            |        | 1700               | 450              |        | 2350           |         |              |           |                   |         |             | 1     | 106973  |
| Purple Finch               |            |        |                    |                  | 4      | 2              |         |              | 2         |                   | 1       |             |       | 56      |
| House Finch                | 60         | 1      | 17                 | 5                | 290    | 86             | 97      | 5            | 58        | 54                | 105     | 225         | 6     | 3439    |
| Pine Siskin                | 1          |        |                    |                  |        | 3              |         |              |           | 2                 | 2       | 3           |       | 391     |
| Am. Goldfinch              | 12         | 9      | 157                | 43               | 148    | 580            | 19      | 10           | 96        | 42                | 136     | 57          | 36    | 4437    |
| House Sparrow              | 220        | 4      | 232                | 73               | 133    | 120            | 237     | 420          | 67        | 260               | 411     | 70          | 85    | 10008   |
| Total                      | 45947      | 17664  | 49514              | 5654             | 26135  | 64365          | 5011    | 20649        | 10684     | 28773             | 22951   | 16926       | 13730 | 353830  |
| Species                    | 72         | 49     | 96                 | 68               | 80     | 97             | 55      | 64           | 75        | 66                | 96      | 85          | 46    | 162     |