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THE WINTER BIRD COUNT FOR 2006

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Forty-five localities conducted counts during the December 2006 to January 2007 count period (eight fewer than last year). A new count was established in Clark County. Several compilers of regularly conducted counts found that inclement weather and impassable roads not only canceled their first scheduled date, but also the alternate date. It's no surprise then that there were fewer participants this winter (557 vs. 562 last year) and fewer average party hours (34.4 vs. 46.2 hrs last winter), but there was a larger average number of species per count (72 vs. 68). Counts conducted the first weekend of the count period (nearly half; 47%) seemed to have milder conditions (except Scott Lake in the west that had cold and snow). Weather conditions for the counts that were completed had relatively mild conditions. Only three counts reported below freezing temperatures for the whole count day. Only four had snow.

In spite of fewer counts, 166 species were found this year (162 last year), which is still more than the average for the last 15 years (162). Only Manhattan exceeded the 100 species threshold (103) this year. Their closest competition came from Wichita (96), Quivira (95), and Udall-Winfield (95). Dodge City had the fewest species with 35. Even with fewer observers in the field, over 4.7 million birds were recorded this year (compared with 3.5 million birds last year). Red-winged Blackbirds accounted for nearly three-fourths of the total (3,195,103). The Canada Goose (213,234), European Starling (203,933 individuals) and Mallard (142,995) rounded out the next three spots.

No species were recorded for the first time on a Kansas count. Some noteworthy discoveries included five Trumpeter Swans (all at Quivira); two Barrow's Goldeneyes (Wichita; good photos); one Western Grebe (Linn Co.); two Neotropical Cormorants (John Redmond; good details); one American Bittern (Olsberg; repeated calls in Carnahan Creek Marsh); one Green Heron (Salina); three Black-crowned Night Herons (Wichita); Turkey Vulture (one each in Oskaloosa-Perry and Topeka); Goshawk (one each at Emporia, Pomona, Webster Reservoir and Wichita); one Lesser Yellowlegs (Arkansas City); one Least Sandpiper (Wichita); Lesser Black-backed Gull (one each at Kanopolis, Waconda Lake and Wichita); one Glacous Gull (Waconda Lake); Greater Roadrunner (one each at Arkansas City and Clark Co.); Snowy Owl (one each at Cheyenne Bottoms and Quivira); one Saw-Whet Owl (Wakefield; vocal response); Eastern Phoebe (one each at Halstead-Newton and Parsons); Rock Wren (one each at Kanopolis and Wilson Reservoir); one Sedge Wren (Quivira); one Gray Catbird (Quivira); one Golden-crowned Sparrow (Halstead-Newton); and one Common Redpoll (John Redmond).

No counts reported completely frozen still water, so at least partially open water was available for waterfowl and gulls. Goose numbers were slightly higher than last year (524,181 vs. 491,589 last year). Numbers of the Greater White-fronted Goose were still higher than their average over the last 15 years (95,735 vs. 61,697 average), and those of the Snow Goose were nearly double (200,148 vs. 135,581 average). The count for Ross's Goose was higher than last year (367 vs. 159) but only 27% of its 15-year average of 1365.

Numbers of the Canada Goose (213,234) exceeded their 15-year average of 207,926. Cackling Goose numbers continue to increase (6517 vs. 4829 last year). Perhaps this reflects better efforts by observers to separate them from the Canada Goose. The only duck that exceeded its highest count over the last 15-years was the Barrow's Goldeneye (2 vs.1). Most ducks had numbers either slightly lower or slightly higher than 15-year averages. While numbers of the Canvasback were not remarkable (131 is only half its average of 250), it did occur widely on 18 of the Kansas counts (compared to its average of 9 counts each year). Sometimes patterns of distribution are as interesting as numbers of birds. Gull numbers were again lower than their averages. Herring Gulls were only slightly more numerous than their 15 year minimum (210 vs. 199 in 1990).

Wild Turkey numbers decreased for the first time in several years (3923 vs.4057 last year) but its distribution continues to increase. Forty of the 45 counts (89%) had turkeys. Bobwhites seem to have had a poor year. Modest gains from 2003-2004 that brought their numbers back to near the 15-year average (1786) were not apparent in this year's total of 573 (near the 15-year minimum of 495).

Sharp-shinned Hawks were slightly less abundant this year (below their 15-year average of 101). Cooper's Hawks however, were more abundant than usual (84 vs. 15-year average of 62), with the result that compilers reported nearly as many Coopers as Sharp-shinned Hawks for this year's count. Among the buteos, Red-shouldered Hawks were notable for their abundance, eclipsing last year's totals (38 vs. 15, which was a 15-year high). Even more interesting was their distribution across the state (14 counts). One was even observed near Pratt during the count period. Red-tailed Hawks were near their 15-year high count (3026 vs. 3590) and the number of Harlan's exceeded the maximum count (120 vs. 74 seen in 1999). Most of the other species were below their average counts. Ferruginous Hawks for example, were much less abundant than their 15-year minimum (20 vs. 52 minimum). How much of this decrease was due to cancelled western counts is unknown, but six of those counts accounted for 31% of the Ferruginous Hawks on last year's count.

The 1192 Eurasian Collared Doves this year represents a slight decrease over last year (1374) but their range expansion continues (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 (121 vs. 2 in 2004) and Garden City had all of them!

Ornithologists continue to monitor the progress of several species on the watch list that have suffered population declines in recent years. The 77 Loggerhead Shrikes seen this year is less than last winter (83 vs. average of 119) Half of the counts in Kansas had no shrikes at all! Black-billed Magpies reached a new low of 50 birds (previous low was 105 in 2003) but some of this decrease might be attributed to fewer western counts which typically count this species (31% of last years total). Black-capped Chickadee numbers were up slightly (2272 vs.1934 last year vs. 4098 average) but Tufted Titmouse numbers decreased (875 vs. 1091 last year compared to 885 minimum for the last 15 years.

There were several species that showed notable decreases or increases over last year's count. Red-breasted Nuthatches that were relatively common last year (219), were hard to find this winter (22 was only slightly higher than the minimum count of 17 for the last 15 years). Carolina Wrens reached a new maximum count (867 vs. previous maximum of 757 in 1999). Manhattan had 130 of those wrens! Northern Mockingbirds were more numerous this year (307 vs. 15-year maximum of 329) and Brown Thrashers actually surpassed their maximum count (23 vs. 22 counted in 1996). Olathe had nearly half (11) of those thrashers.

Winter finches were notable in their absence or scarcity this winter. There were no grosbeaks or crossbills this winter. Purple Finch were scarce (44 compared to their 15-year minimum count of 33) and Pine Siskins even more so (13 vs. previous minimum of 50).

After years of steadily increasing populations, House Finch numbers reached a 15-year minimum (2101 vs. previous low of 2423).

Kansas counts submitted to the National Audubon Society's 106th Christmas Bird Count included seven of the highest counts for a given species in the United States for the 2005-2006 season. They included: 104,300 for Greater White-fronted Goose at Quivira NWR, 80,000 for Canada Goose at Quivira NWR, 10,000 Common Mergansers at Lawrence, 300,000 for Canada Goose at Quivira, 16,000 Common Mergansers at Waconda Lake, 5 Lesser Prairie-Chickens at Cimarron National Grassland, 3000 American Tree Sparrows at Waconda Lake, 2983 Harris's Sparrows at Udall-Winfield, and 41,226 Lapland Longspurs at Scott Lake.

Alma/ Lake Wabaunsee. 38°56'N 96°17'W. Center as described in 1995. 25 December 2006; 7:30 a.m. to 5:15 p.m.; 31°F to 42°F. Wind NW 5-25 mph. Still water partly frozen, moving water partly frozen; a.m. partly cloudy, p.m. partly cloudy. One observer in 1 party. Total party-hours 9.5 (5.25 on foot, 4.25 by car). Total party-miles 77 (9 on foot, 68 by car). Total 54 species; 1,877 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 2006; 8:00 a.m. to 5:30 p.m.; 26°F to 48°F. Wind NW 5-13 mph. Snow 0-1 in. Still water open, moving water open; a.m. foggy, overcast, p.m. partly clear to clear. Eleven observers in 4 parties. Total party-hours 33.5 (7 on foot, 26.5 by car). Total party-miles 287 (8 on foot, 279 by car). Total 94 species; 19,766 individuals.

Kevin Bjornen, Paul Bjornen, Bev Dugay, Patty Marlett, Dale Randall, Eddie Stegall, Savilla Stegall, Shawn Silliman, Max Thompson, Bailey Young, Eugene A. Young (compiler-1707 N 7th St., Arkansas City, KS 67005).

Baldwin. 38°47'N 95°16'W. Center as described in 1986. 17 December 2006; 6:00 a.m. to 5:30 p.m.; 42°F to 48°F. Wind N 10-20mph. Still water open, moving water open; a.m. cloudy, p.m. cloudy, light rain. Fifteen observers in 7 parties, plus 2 at feeders. Total party-hours 51 (10 on foot, 41 by car), plus 4 hours at feeders, 2 hours owling. Total party-miles 366.5 (11.5 on foot, 355 by car) plus 23 miles owling. Total 83 species; 52,338 individuals.

Jan Boyd, Roger Boyd (compiler-Biology Department, Baker University, PO Box 65, Baldwin City, KS 66006), Grace Brewer, James Brockway, John Brockway, Bill Busby, Cal Cink, Gerry Parkinson, Barbara Pressgrove, Martin Pressgrove, Phil Wedge, Roy Wedge, Larry Williams, John Zempel, Linda Zempel.

Benedictine Bottoms. 39°36'N 95°08'W. Center as described in 2006. 7 January 2007; 8:00 a.m. to 5:00 p.m.; 28°F to 43°F. Wind NW 30 mph. Still water partly frozen, moving water open; a.m. partly cloudy, p.m. partly cloudy. Six observers in 4 parties. Total party hours 23 (12 on foot, 11 by car). Total party-miles 164 (18 on foot, 146 by car). Total 58 species; 15, 193 individuals.

Charles Hays, Joanne Hays, Dan LaShelle, John Shuckman, Gregory Stempien, 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. 6 January 2007; 7:30 a.m. to 5:30 p.m.; 24°F to 46°F. Wind W, 5-15 mph. Still water partly open, moving water open; a.m. clear, p.m. clear. Seven observers in 2 parties, plus 1 at feeders. Total party-hours 17 (6 on foot, 11 by car), plus 2 hours at feeders. Total party-miles 180 (4 on foot, 176 by car). Total 56 species; 15,632 individuals.

David Klema, Rober Kruger, Ben Nondorf, Carolyn Nondorf, Ellen Rader, Jennifer 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. 6 January 2007; 7:30 a.m. to 5:00 p.m.; 20°F to 50°F. Wind S 10 mph. Still water open, moving water open; a.m. clear, p.m. clear. Nine observers in 4 parties, plus 7 at feeders. Total party-hours 34 (5.5 on

foot, 28.5 by car), plus 8 hours at feeders, 5.25 hours owling. Total party-miles 264.5 (6 on foot, 258.5 by car), plus 69 miles owling. Total 66 species; 12,995 individuals.

Susan Adamchak, Doris Burnett, Marian Busey, Warren Buss, Chod Hedinger, Mary Holliman, Pierce Holliman, Carol Hoogheem, Irwin Hoogheem, Brandon Magette, Tom Parker (compiler-811 Gypsum St., Blue Rapids, KS 66411), Jeanette Pralle, Beth Wardem, Gary Wardem, Carroll Whiting, Sarah Whiting.

Bonner Springs/ Lansing. 39°11'N 94°54'W. Center as described in 1995. 17 December 2006; 7:30 a.m. to 5:00 p.m.; 44°F to 46°F. Wind NE 10-18 mph. Still water open, moving water open; a.m. cloudy, p.m. cloudy. Three observers in 1-3 parties. Total party-hours 16.5 (1.5 on foot, 15 by car) plus 1 hour owling. Total party-miles 175.5 (1.5 on foot, 174 by car), plus 12 miles owling. Total 66 species; 5,237 individuals.

Monica Higgins, Galen Pittman (compiler-12042 258th St., Lawrence, KS 66044), John Schukman.

Camp Naish. 39°04'N 94°54'W. Center as described in 1982. 2 January 2007; 7:30 a.m. to 5:30 p.m.; 24°F to 48°F. Wind S 10 mph. Still water open, moving water open; a.m. clear, p.m. clear. Ten observers in 2 parties. Total party-hours 13 (12 on foot, 1 by car), plus 1 hour owling. Total party-miles 9 (8 on foot, 1 by car), plus 2 miles owling. Total 47 species; 1,005 individuals.

Joe Blount, Mike Cooper, Ed Hubert, Hugh Jefeeries, George Pisani, Alexis Powell, Stan Roth (compiler-532 Oklahoma St., Lawrence, KS 66046-4834), Eric Rundquist, Terry Swope, Alan Zimmerman.

Cheyenne Bottoms. 38°26'N 98°41'W. Center as described in 1977. 19 December 2006; 7:30 a.m. to 3:00 p.m.; 36°F to 39°F. Wind E 5-15 mph. Still water partly frozen; a.m. cloudy, p.m. cloudy. Seven observers in 5 parties, plus 2 at feeders. Total party-hours 8.5 (3.5 on foot, 5 by car) plus 0.5 hours at feeders. Total party-miles 153.25 (4.25 on foot, 149 by car). Total 67 species; 60,081 individuals.

Carol Grover, Karl Grover, Helen Hands (compiler-56 NE 40 Road, Great Bend, KS 67530), Larry Hesed, Rob Penner, Keith Reif, Gene Schneewis.

Cimarron National Grasslands. 37°07'N 101°52'W. Center as described in 1972. 30 December 2006; 8:45 a.m. to 5:15 p.m.; 22°F to 30°F. Wind N, 5-10 mph. Snow 6-10 in. Still water partly open, moving water partly open; a.m. cloudy, heavy snow, p.m. partly cloudy. One observer in 1 party. Total party-hours 8.5 (4.5 on foot, 4 by car). Total party-miles 45 (5 by foot, 40 by car). Total 45 species; 31,098 individuals.

S. Patti (compiler-552 W. Belden Ave., Chicago, IL 60614).

Clark County. 37°23'N 99°53' W *New Count*. Center at a point 7 miles south and 1 mile west of Bloom, Kansas to include Minneola, Bloom and Clark State Fishing Lake. Native grassland 45%, cropland 50%, lake 2%, farmsteads 2%, rural town 1%. 23 December 2006; 7:30 a.m. to 5:30 p.m.; 25°F to 46°F. Wind NW, 7-15 mph. Still water open, moving water open; a.m. clear, p.m. partly cloudy. Two observers in 1 party. Total party hours 9 (0.5 on foot, 8.5 by car), plus 1.5 hours owling. Total party miles 102.5 (0.5 on foot, 102 by car), plus 21 miles owling. Total 60 species; 4,065 individuals.

Eunice Pittman, Galen Pittman (compiler- 12042 258th St., Lawrence, KS 66044).

Dodge City. 37°46'N 99°58'W. Center as described in 1985. 16 December 2006; 7:45 a.m. to 4:30 p.m.; 38°F to 50°F. Wind W 10 mph. Still water partly open, moving water open; a.m. partly cloudy, p.m. partly cloudy. Five observers in 2 parties, plus 3 at feeders. Total party-hours 23 (0.5 on foot, 22.5 by car), plus 3.75 hours at feeders. Total party-miles 197.5 (0.5 on foot, 197 by car). Total 35 species; 19,888 individuals.

Fred Brooks, Joyce Davis, Joleen Fromm (compiler-200 Campus Drive, 1B, Dodge City, KS 67801), Phyllis Harkness, Kay Rose.

El Dorado Lake. 37°51'N 96°52'W. Center as described in 1990. 7 January 2007; 8:00 a.m. to 4:00 p.m.; 30°F to 45°F. Wind N, 20 mph. Still water partly frozen, moving water partly open; a.m. cloudy, p.m. clear. Four observers in 2 parties. Total party-hours 16

(4 on foot, 12 by car) plus 1 hour owling. Total party-miles 188 (4 on foot, 184 by car) plus 10 miles owling. Total 62 species; 6,197 individuals.

Carol Cumberland, Bill Langley (compiler-Butler Community College, 901 S Haverhill Rd, El Dorado, KS 67042) Patty Marlett, Art Weigand.

Emporia. 38°27'N 96°05'W. Center as described in 1985. 17 December 2006; 8:00 a.m. to 5:00 p.m.; 40°F to 47°F. Wind NNE 5-15 mph. Still water open, moving water open; a.m. cloudy, p.m. cloudy. Twenty-two observers in 8 parties. Total party-hours 52 (20 on foot, 32 by car). Total party-miles 375 (17 on foot, 358 by car). Total 89 species; 26,003 individuals.

Ginny Agin, John Agin, Doug Carlson, Jenna Ferguson, Roger Ferguson, Sherry Ferguson, Mary Gorton, Alice Halloran, Kate Halloran, Bill House, Bill Jensen, Marvin Kuehn, Nathan Leclear, Paul McKnab, Christie Nall, Ian Nall, Jackie Nooker, Jean Schultenberg (compiler-Rt 2, Box 36, Admire, KS 66830), Dena Tabor, Kathleen Tabor, Josh Williams.

Garden City. 37°55'N 100°47'W. Center as described in 2001. 13 January 2007; 8:00 a.m. to 6:15 p.m. 6°F to 12°F. Wind N, 5 mph. Still water partly open to frozen, moving water partly open to frozen; a.m. cloudy, light snow, p.m. mostly cloudy, light snow. Fourteen observers in 9 parties, plus 16 at feeders. Total party-hours 30.5 (6.5 on foot, 24 by car) plus 37.25 hours at feeders. Total party-miles 193 (7.5 on foot, 185.5 by car). Total 65 species; 9,757 individuals.

Betty Bryant, Barbara Campbell, Bob Campbell, Doug Floto, Harland Graber, Lorraine Graber, Mary Lake, Tom Norman, Art Nonhof, Marie Osterbuhr (compiler-1103 Gillespie Place, Garden City, KS 67846), Michael K. Ramsey, Grant Ramsey, Leonard Rich, Ann Sarber, Bill Saunders, Emaline Scott, Kathy Sexson, Sara Shane, Tom Shane, Ray Stareck, Ardith Stones, Chuck Stones.

Halstead-Newton. 38°04'N 97°28'W. Center as described in 1970. 16 December 2006; 7:00 a.m. to 5:00 p.m.; 46°F to 60°F. Wind variable, 0-8 mph. Still water open, moving water open; a.m. cloudy, p.m. partly cloudy. Twenty observers in 6-7 parties. Total party-hours 52.5 (30.25 on foot, 22.25 by car). Total party-miles 261.75 (27.25 on foot, 234.5 miles by car). Total 73 species; 1,065,361 individuals.

Millie Cherryholmes, Marion Deckert, Pat Denno, Bob Dester, Gregg Friesen, Erren Graber, Alison Hiebert, Harvey Hiebert, Aileen McCune, Cheryl Miller, Jay Newton, Norman Pankratz, Dwight Platt (compiler-702 NE 24th St., Newton, KS 67114), Bob Regier, Tim Regier, Carolyn Schwab, Joe Soukup, John Torline, Michael Unruh, Rodney Wedel (Kauffman Museum, sponsor).

Hays. 38°51'N 99°27'W. Center as described in 1987. 16 December 2006; 8:00 a.m. to 4:00 p.m.; 32°F to 48°F. Wind N, 7-20 mph. Still water open, moving water open; a.m. cloudy, p.m. cloudy. Fifteen observers in 6 parties, plus 1 at feeders. Total party-hours 32.5 (14.75 on foot, 17.75 by car), plus 4 hours at feeders and 0.5 hours owling. Total party-miles 215 (12 on foot, 203 by car), plus 4 miles owling. Total 47 species; 10,984 individuals.

Brian Bartels, Andrée Farley, Greg Farley (compiler-Department of Biological Sciences, Fort Hays State University, Hays, KS 67601), Elmer Finck, John Launchbaugh, Libby Legere, Sam Mannell, Terry Mannell, Mary Morgan, Curtis Schmidt, Jim Schmidt, Marilyn Sim, Steve Sim, Bill Stark, Jim Strine, Curtis Wolf.

John Redmond Reservoir. 38°27'N 95°82'W. Center as described in 1993. 30 December 2006; 7:30 a.m. to 4:30 p.m.; 50°F to 57°F. Wind SE 10-20 mph. Still water open, moving water open; a.m. cloudy, foggy, light rain, p.m. cloudy, light rain. Twelve observers in 5 parties, plus 1 at feeders. Total party-hours 29 (4 on foot, 25 by car), plus 1 hour at feeders and 1.5 hours owling. Total party-miles 259.25 (4.25 on foot, 255 by car), plus 11 miles owling. Total 83 species; 31,428 individuals.

Nancy Bodenhammer, Randy Bodenhammer, Bob Culbertson (compiler-207 Cheyenne, New Strawn, KS 66539), Carol Culbertson, Trisha Culbertson, Pat Gonzales,

Carol Hale, Helen Hall, Ken Hall, Deb Reznicek, Ken Reznicek, Art Swalwell, Dan Williamson.

Junction City. 39°00'N 96°53'W. Center as described in 1992. 27 December 2006; 7:30 a.m. to 5:00 p.m.; 34°F to 58°F. Wind S, 0-24 mph. Still water open, moving water mostly open; a.m. clear, p.m. clear. Eleven observers in 5 parties. Total party-hours 38.25 (10 on foot, 28.25 by car). Total party-miles 325.5 (9.5 on foot, 316 by car). Total 81 species; 1,510,224 individuals.

Doris Burnett, Warren Buss, Carol Hoogheem, Hoogy Hoogheem, Chuck Otte (compiler-613 Tamerisk Drive, Junction City, KS 66441), Galen Pittman, Brett Sandercock, Margy Stewart, Ron Young, John Zempel, Linda Zempel.

Kanopolis Reservoir. 38°37'N 97°57'W. Center as described in 1983. 7 January 2007; 7:30 a.m. to 5:00 p.m.; 36°F to 44°F. Wind N, 15-25 mph. Still water partly frozen, moving water open; a.m. partly cloudy, p.m. partly cloudy. Twelve observers in 4 parties. Total party-hours 19 (5 on foot, 14 by car). Total party-miles 223 (8 on foot, 215 by car). Total 67 species; 15,499 individuals.

Richard Field, Dan Gish, Robert Kruger, Dan Larson, Jim Malcolm, Sam Mannell, Terry Mannell, Richard Martin, Jennifer Rader, Mike Rader (compiler-P.O. Box 395, Wilson, KS 67490), Roger Schultz, Scott Seltman.

Lawrence. 39°00'N 95°18'W. Center as described in 1981. 16 December 2006; 7:00 a.m. to 5:30 p.m.; 55°F to 66°F. Wind SW, 7-20 mph. Still water open, moving water open; a.m. cloudy, p.m. partly cloudy. Thirty observers in 11-12 parties, plus 2 at feeders. Total party-hours 97 (34 on foot, 59 by car, 4 by ATV), plus 2.5 hours at feeders, 6.5 hours owling. Total party-miles 497 (34 on foot, 458 by car, 5 by ATV), plus 29.5 miles owling. Total 90 species; 226,153 individuals.

Bob Antonio, Kelly Barth, Roger Boyd, Marissa Buschow, Scott Campbell, Kit Carlson, Cal Cink, Mark Corder, Lisa Grossman, Bill Hays, Susan Iverson, Tom Kreissler, Mick McHugh, Randy Miller, Duane Otto, Gerry Parkinson, Galen Pittman (compiler-12042 258th St., Lawrence, KS 66044), Stan Roth, Janet Roth, Banny Rucker, Bob Rucker, Vaughn Salisbury, Dawn Sharp, Cynthia Shaw, Ed Shaw, Richard Williams, Diane Weaver, Joyce Wolf, Ron Wolf, John Zempel, Linda Zempel.

Leavenworth-Atchison. 39°23'N 95°00'W. Center as described in 1992. 31 December 2006; 7:00 a.m. to 5:00 p.m.; 34°F to 45°F. Wind N, 10 mph. Snow 0.5 inches. Still water open, moving water open; a.m. cloudy, light rain, p.m. cloudy, light snow. Six observers in 4 parties, plus 1 at feeders. Total party-hours 36 (11 on foot, 25 by car) plus 2 hours at feeders, 0.5 hours owling. Total party-miles 294 (8 on foot, 286 by car), plus 2 miles owling. Total species 63; 11,758 individuals.

Chuck Allen, David Fischer, Galen Pittman, Mick McHugh, John Schukman (compiler-14207 Robin Rd., Leavenworth, KS 66048), Lisa Weeks, Dave Williams.

Linn County. 38°17'N 94°45'W. Center as described in 1982. 23 December 2006; 6:15 a.m. to 5:30 p.m.; 29°F to 50°F. Wind N, 0-5 mph. Still water partly frozen, moving water open; a.m. foggy, p.m. partly cloudy. Seven observers in 3 parties. Total party-hours 30 (4 on foot, 26 by car) plus 1 hours owling. Total party-miles 320 (3 on foot, 317 by car), plus 1 miles owling. Total 94 species; 18,896 individuals.

Jan Boyd, Roger Boyd (compiler-Biology Dept., Baker University, PO Box 65, Baldwin City, KS 66006), Matt Gearheart, Mark Land, Aaron Mitchell, Nelson Romano, Jr., Terry Swope.

Manhattan. 39°11'N 96°34'W. Center as described in 1993. 16 December 2006; 5:00 a.m. to 5:00 p.m.; 42°F to 68°F. Wind SSW, 10 mph. Still water open, moving water open; a.m. partly foggy, p.m. partly cloudy. Sixty-five observers in 32 parties, plus 8 at feeders. Total party-hours 129.5 (66.5 on foot, 63 by car), plus 4 hours at feeders, 2 hours owling. Total party-miles 535.75 (73.5 on foot, 462.25 by car), plus 27 miles owling. Total 103 species; 48,550 individuals.

Susan Adamchak, Diane Barker, Chris Becker, Gina Becker, Sylvia Beeman, Susan Blackford, Doris Burnett, Warren Buss, Chuck Bussing, Ted Cable, Anne Cully, Jack Cully, Stramel Dean, Elizabeth Dodd, Michael Donnelly, Jamie Fallon, Clyde Ferguson, Marilena Ferguson, Ann Feyerharm, Pat Freeman, Chod Hedinger, Carol Hoogheem, Hoogy Hoogheem, Cindy Jeffries, Gary Jeffries, Richard Johnson, Robb Kaler, Leah Kenney, Jim Koelliker, Marilynn Koelliker, Roma Linehan, Andrea MacCharles, Eilish MacCharles, Nate MacCharles, Tiernan MacCharles, Brandon Magette, Clara Mayfield, Mark Mayfield, Barry Michie, Bob Mohr, Marge Muenzenberger, Jackie Nooker, Jack Oviatt, Susan Oviatt, Tom Parker, David Rintoul (compiler-Biology Division-Ackert Hall, Kansas State University, Manhattan, KS 66506-4901), Mary Roth, Samantha Roth, Brett Sandercock, Donna Shaver, Gary Shaver, Marla Shoemaker, Jim Shroyer, Anne Smith, Chris Smith, Gerry Snyder, Margy Stewart, Mike Strobe, Dana Townsend, Harvard Townsend, Mark Ungerer, Ron VanNimwegen, Ellen Welti, Alison Wheatley, Patricia Yeager.

Olathe. 38°54'N 94°51'W. Center as described in 1986. 17 December 2006; 7:00 a.m. to 4:00 p.m.; 43°F to 48°F. Wind N, 5-15 mph. Still water partly frozen, moving water open; a.m. cloudy, p.m. cloudy. Five observers in 5 parties. Total party-hours 54.5 (18.75 on foot, 35.75 by car). Total party-miles 224.5 (17.5 on foot, 207 by car). Total 74 species; 12,496 individuals.

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

Olsburg. 39°25'N 96°39'W. Center as described in 1991. 18 December 2006; 7:30 a.m. to 5:00 p.m.; 26°F to 47°F. Wind N, 0-10 mph. Still water open, moving water open; a.m. partly clear, p.m. clear. Twelve observers in 5 parties, plus 4 at feeders. Total party-hours 46 (12 on foot, 34 by car), plus 6 hours at feeders. Total party-miles 278 (8 on foot, 270 by car). Total 69 species; 5,939 individuals.

Susan Adamchak, Doris Burnett, Warren Buss, Bill Edwards, Jean Giddis, Carol Hoogheem, Erwin Hoogheem, Ruth Lynn Hooper, Cindy Jeffrey, Gary Jeffrey (compiler-15850 Galilee Rd, Olsburg, KS 66520), Brandon Magette, Irv Pressler, Twila Pressler, Paul Weidhaas, John Wesley, Patricia Yeager.

Oskaloosa/ Perry Lake. 39°25'N 95°24'W. Center as described in 1980. 17 December 2006; 6:45 a.m. to 5:00 p.m.; 42°F to 48°F. Wind NE, 10-13 mph. Still water open, moving water open; a.m. cloudy, p.m. cloudy. Nineteen observers in 7 parties. Total party hours 52.75 (10.75 on foot, 42 by car), plus 1 hour owling. Total party-miles 373 (9 on foot, 364 by car), plus 4 miles owling. Total 87 species; 24,308 individuals.

Richard Bean, Joanne Brier, David Herrin, Glen Koontz, Mick McHugh, Duane Otto, Galen Pittman, Marie Plinsky, Banny Rucker, Bob Rucker, Genevieve Rucker, Sarah Rucker, John Schukman, David Seibel, Roseanne Smith, Mike Stewart, Terry Sullivan, Bunnie Watkins (compiler-3212 W 24th Street Terrace, Lawrence, KS 66047).

Parsons. 37°30'N 95°15'W. Center as described in 1996. 6 January 2007; 8:00 a.m. to 2:00 p.m.; 43°F to 55°F. Wind NW, 0-10 mph. Still water open, moving water open; a.m. cloudy, p.m. cloudy. Nine observers in 4 parties. Total party-hours 26.5 (8 on foot, 18.5 by car). Total party-miles 159 (8 on foot, 151 by car). Total 69 species; 8992 individuals.

Mavis Brenner, Mary Haynes, Larry Herbert, Liz Mangile, Robert Mangile, Lou Milks, Paul Milks (compiler-2621 Chess, Parsons, KS 67357), Ralph Pierce, Rick Tucker.

Pomona Lake. 38°40'N 95°41'W. Center as described in 1993. 6 January 2007; 7:30 a.m. to 5:00 p.m.; 28°F to 40°F. Wind NW 10 mph. Still water open, moving water open; a.m. partly cloudy, p.m. clear. Fourteen observers in 5 parties. Total party-hours 30 (2.5 on foot, 27.5 by car), plus 1.5 hours owling. Total party-miles 209.5 (2.5 on foot, 207 by car), plus 6 miles owling. Total 84 species; 12,797 individuals.

Jeffrey Bender (compiler-Pomona State Park, 22900 S. Hwy. 368, Vassar, KS 66543), Jenny Burgdorf, Bob Culbertson, Carol Culbertson, Trisha Culbertson, Matt Gearheart, Dan Larson, Nancy Leo, Galen Pittman, David Seibel, Pat St. John, Janeen Walters, Lisa Weeks, Dale Wheeler.

Quivira National Wildlife Refuge. 38°09'N 98°29'W. Center as described in 1972. 14 December 2006; 6:00 a.m. to 5:00 p.m.; 44°F to 65°F. Wind WSW, 5-15 mph. Still water open, moving water open; a.m. partly cloudy, p.m. partly cloudy. Sixteen observers in 6 parties. Total party-hours 31 (9 on foot, 22 by car), plus 1 hour owling. Total party-miles 238.5 (9 on foot, 229 by car), plus 10 miles owling. Total 95 species; 659,376 individuals.

Levi Beaver, Lorrie Beck, Wallace Champeny, Gregg Friesen, Rebecca Friesen, Bob Gress, Kevin Groeneweg, Mary Pat Haddican, Daniel Kilby, Dan M. Kilby, Joyce Lent, Patty Marlett, Cheryl Miller, Robert Penner, Mike Rader (compiler-P.O. Box 395, Wilson, KS 67490), Donald Vannoy.

Red Hills. 37°13'N 98°42'W. Center as described in 1994. 30 December 2006; 8:00 a.m. to 5:00 p.m.; 36°F to 45°F. Wind NNE, 18-25 mph. Still water open, moving water open; a.m. heavy rain, p.m. cloudy. Nine observers in 3 parties. Total party-hours 24 (2 on foot, 22 by car), plus 1 hour owling. Total party-miles 250 (2 miles on foot, 248 by car), plus 20 miles owling. Total species 61; 13,381 individuals.

Pete Janzen (compiler-3137 Mascot, Wichita, KS 67204-4407), Dan Kilby, Nancy Leo, Jane Queal, Lee Queal, Dale Randall, Ben Rogers, Stan Roth, Eddie Stegall, Savilla Stegall.

Salina. 38°50'N 97°38'W. Center as described in 1983. 16 December 2006; 8:00 a.m. to 5:15 p.m.; 43°F to 56°F. Wind variable, 0-10 mph. Still water open, moving water open; a.m. partly cloudy, p.m. cloudy. Seventeen observers in 4-5 parties, plus 4 at feeders. Total party-hours 38.75 (13.25 on foot, 25.5 by car) plus 2.5 hours at feeders. Total party-miles 350.25 (13.25 on foot, 337 by car). Total 71 species; 16,205 individuals.

Iralee Barnard, Ken Barnard, Arlene Clayton, Judy Collins, Dennis Farres, Kat Farres, David Haight, Kevin Haight, Bob Highgate, Harold Lear (compiler-612 Max Avenue, Salina, KS 67401-6661), Joe Nold, Roger Plankenhorn, Shannon Rayl, Mike Roy, Marge Streckfus, John Wachholz, Judy Zanardi.

Sawyer. 37°32'N 98°41'W. Center as described in 1989. 7 January 2007; 7:30 a.m. to 5:30 p.m.; 24°F to 48°F. Wind S 10 mph. Still water partly frozen, moving water open; a.m. clear, p.m. clear. Nine observers in 8 parties, plus 2 at feeders. Total party-hours 9.5 (6 on foot, 3.5 by car) plus 1.5 hours owling. Total party-miles 143 (3.5 on foot, 139.5 by car) plus 15 miles owling. Total 67 species; 19,655 individuals.

Don Bass, Ken Brunson (compiler-40050 NE 10th St., Pratt, KS 67124), Lee Ann Brunson, Kevin Groeneweg, Mark Haas, Shannon Jarmer, Jane Queal, Lee Queal, Cherie Riffey, Jack Strait, Bob Wood, Laurie Yasui.

Scott Lake. 38°35'N 100°56'W. Center as described in 1987. 17 December 2006; 7:45 a.m. to 5:15 p.m.; 23°F to 36°F. Wind N, 5 mph. Still water open, moving water open; a.m. partly cloudy, p.m. partly cloudy. Seven observers in 2 parties, plus 1 at feeders. Total party-hours 17 (2 on foot, 15 by car), plus 2 hours at feeders. Total party-miles 106 (2 on foot, 104 by car). Total 63 species; 12,831 individuals.

Betty Bryant, Vicky Copess, Doug Floto, Marie Osterbuhr, Mike Ramsey, Pam Ramsey, Sara Shane (compiler-1706 Belmont, Garden City, KS 67846), Tom Shane.

Seneca. 39°47'N 96°05'W. Center as described in 1996. 26 December 2006; 7:15 a.m. to 5:00 p.m.; 30°F to 53°F. Wind SSW-SE, 5-20 mph. Still water partly frozen, moving water partly frozen; a.m. partly cloudy, p.m. partly cloudy. One observer in 1 party. Total party-hours 9.5 (4.5 on foot, 5 by car), plus 1 hour owling. Total-party miles 90.5 (8.5 on foot, 82 by car), plus 14 miles owling. Total 59 species; 3,305 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. 27 December 2006; 8:00 a.m. to 5:30 p.m.; 30°F to 57°F. Wind SSE, 10-20 mph. Still water open, moving water open; a.m. partly cloudy, p.m. partly cloudy. Eight observers in 4 parties, plus 2 at feeders. Total party-hours 39 (1 on foot, 38 by car), plus 4 hours at feeders, 2 hours owling. Total party-miles 231.25 (1 on foot, 230.25 by car), plus 25 miles owling. Total 92 species; 195,187 individuals.

Paul Bjornen, Wallace Champeny, Jack Dennett, Norma Dennett, Beverly Dugay, Patty Marlett, Max Thompson, Richard Tucker, Cheryl Van Doran, 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 2007; 7:30 a.m. to 3:30 p.m.; 27°F to 45°F. Wind NW, 0-10mph. Still water partly frozen, moving water open; a.m. clear, p.m. clear. Twelve observers in 7 parties. Total party-hours 39.5 (3.5 on foot, 36 by car), plus 0.75 hours owling. Total party-miles 281 (3.5 on foot, 277.5 by car), plus 6 miles owling. Total 74 species; 9,344 individuals.

Mavis Benner, Cindy Ford, Steven Ford (compiler-Biology Department, Pittsburg State University, Pittsburg, KS 66762), John Hartley, David Hennis, Lawrence Herbert, Barry Jones, Ellen Jones, Elizabeth Mangile, Robert Mangile, Richard Tucker, Roger Willis.

Topeka. 39°02'N 95°40'W. Center as described in 1972. 16 December 2006; 7:00 a.m. to 5:00 p.m.; 43°F to 65°F. Wind S, 0-12 mph. Still water partly frozen, moving water open; a.m. cloudy, p.m. mostly clear. Twenty-one observers in 10 parties, plus 8 at feeders. Total party-hours 68 (31 on foot, 37 by car), plus 14 hours at feeders. Total party-miles 444 (32 on foot, 412 by car). Total 86 species; 27,580 individuals.

Judy Billings, Sandy Bohnsack, Jim Brier, Joanne Brier, Diana Busey, Glen Caspers, Walter Cole, Evelyn Davis, Richard Field, Dan Gish, Dean Grisell, Gladys Grisell, Gary Haden (compiler-5225 SW 12th St, Topeka, KS 66604), Jeff Hansen, Ralph Hoover, Scottie Johnson, Dan Larson, Bob Lawson, Jim Malcom, Sara Merrill, Marilyn Morford, Carol Morgan, Larry Peters, Melody Pollom, Joanne Ramberg, Mark Roupe, Rhonda Simpson, Janeen Walters.

Udall/ Winfield. 37°16'N 96°59'W. Center as described in 1972. 17 December 2006; 8:00 a.m. to 5:00 p.m.; 38°F to 47°F. Wind N, 10 mph. Still water open, moving water open; a.m. cloudy, foggy, light mist, p.m. cloudy. Eleven observers in 5 parties, plus 1 at feeders. Total party-hours 43.5 (3.5 on foot, 40 by car), plus 8 hours at feeders, 5 hours owling. Total party-miles 418.5 (3.5 on foot, 415 by car), plus 104 miles owling. Total 95 species; 57,588 individuals.

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

Waconda Lake. 39°28'N 98°22'W. Center as described in 1992. 17 December 2006; 7:30 a.m. to 4:45 p.m.; 32°F to 46°F. Wind NE 10-20 mph. Still water open, moving water open; a.m. partly cloudy, p.m. cloudy. Four observers in 2 parties. Total party-hours 17 (6 on foot, 11 by car). Total party-miles 226 (5 on foot, 221 by car). Total 82species; 144,407 individuals.

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

Wakefield. 39°13'N 96°58'W. Center as described in 1992. 17 December 2006; 7:30 a.m. to 4:30 p.m.; 29°F to 47°F. Wind N-NW, 3-15 mph. Still water open, moving water open; a.m. partly cloudy, p.m. partly cloudy. Eight observers in 3 parties, plus 1 at feeders. Total party-hours 24.25 (4 on foot, 20.25 by car), plus 4 hours at feeders, 2.25 hours owling. Total party-miles 205 (4 on foot, 201 by car), plus 17 miles owling. Total 82 species; 206,013 individuals.

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

Webster Reservoir. 39°25'N 99°24'W. Center as described in 1992. 26 December 2006; 8:00 a.m. to 4:30 p.m.; 22°F to 53°F. Wind WSW, 0-10 mph. Still water partly frozen, moving water open; a.m. clear, p.m. partly cloudy. Three observers in 1 parties. Total party-hours 8 (2 on foot, 6 by car). Total party-miles 106 (2 on foot, 104 by car). Total 62 species; 12,159 individuals.

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

Wichita. 37°41'N 97°21'W. Center as described in 1955. 16 December 2006; 7:30 a.m. to 5:30 p.m.; 42°F to 50°F. Wind SSW, 12-29 mph. Still water open, moving water open; a.m. clear, p.m. clear. Thirty-two observers in 6-9 parties, plus 1 at feeders. Total party-hours 56 (39 on foot, 17 by car), plus 4 hours at feeders and 3 hours owling. Total party-miles 373 (31 on foot, 342 by car), plus 28 miles owling. Total 96 species; 65,128 individuals.

Brian Addis, Pat Beckemeyer, Roy Beckemeyer, Walker Butin, Wallace Champeny, Beverly DuGay, Duane DeLong, Harry Gregory, Bob Gress, Kevin Groeneweg, Michael Heaney, Bob Hoopes, Pete Janzen (compiler-3137 Mascot, Wichita, KS 67204-0182), Dan Kilby, Catherine Lewis, Patty Marlett, Jim Mason, Rob McHenry, Rosa McHenry, Rita Newton, John Northrup, Dale Randall, Ben Rogers, Tony Schaar, Becky Stanfield, Eddie Stegall, Savilla Stegall, Sandra Tholen, Sheryl VanDoren, Don Vannoy, Ruth White, Gene Young.

Wilson Lake. 38°56'N 98°34'W. Center as described in 1994. 16 December 2006; 7:00 a.m. to 5:00 p.m.; 34°F to 50°F. Wind WNW, 5-15 mph. Still water open, moving water open; a.m. partly clear, p.m. clear. Nine observers in 5 parties. Total party-hours 38 (18 on foot, 20 by car), plus 1 hour owling. Total party-miles 391 (13 on foot, 378 by car), plus 5 miles owling. Total 88 species; 24,313 individuals.

Henry Armknecht, Dave Klema, Robert Kruger, Jim Nickel, Rob Penner, Ellen Rader, Mike Rader (compiler-P.O. Box 395, Wilson, KS 67490), Roger Schultz, Scott Seltman.

Yoder. 37°55'N 97°50'W. Center as described in 2000. 16 December 2006; 8:00 a.m. to 1:00 p.m.; 45°F to 53°F. Wind S, 5-15 mph. Still water open, moving water open; a.m. cloudy, p.m. cloudy. Twenty-four observers in 8 parties. Total party-hours 30 (9 on foot, 21 by car). Total party-miles 227.5 (6.5 on foot, 221 by car). Total 54 species; 28,395 individuals.

Robert Ahrens, Levi Beaver, Lora Beaver, Brian Bird, Daniel Bird, Amy Burton, William Burton, Payton Chavez, Mary Clark (compiler-Dillon Nature Center, 3002 E 30th, Hutchinson, KS 67502), Jean Conkling, Tara Conkling, Kris Davis, Dan Dyck, Jennifer Dyck, Linda Dyck, Garrett Ediger, Estella Headings, Phil Headings, Steven Kinser, Cynthia Miller, Dwight Miller, Sarah Parsons, Mark Rogers, Jim Smith.

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PREDATOR AVOIDANCE BEHAVIOR BY THE CALLIOPE HUMMINGBIRD

Thomas G. Shane and Sara J. Shane
1706 Belmont, Garden City, KS 67846
(tom.shane@sbcglobal.net)

On the evening of 7 September 2002 we were observing hummingbirds from the front porch of our Garden City, Kansas home. An immature Calliope Hummingbird (*Stellula calliope*) flew into a stand of two-foot tall (0.6 m) (blue) mealy sage (*Salvia farinacea*), about seven feet (2 m) from our location, and started foraging. After about thirty seconds of feeding we heard the hummingbird give a faint "Whrrr" call and then observed it drop straight down into the vegetation to the ground. As we approached the area the bird flew up and out of the salvia. It was then that we noticed a mid-sized (5cm) praying mantis, probably the Carolina mantis (*Stagmomantis carolina*), on one of the flower stalks within inches of where the hummingbird was foraging. The adult Carolina mantis ranges from 4.5 to 6.0 cm (Arnett 2000). The only mantid egg cases we have ever found attached to the house and trees around this flower bed were of the Carolina mantis (Arnett 2000). We did not see motion to indicate the mantis had lunged toward the bird. Therefore we concluded that the Calliope Hummingbird responded with a predator avoidance behavior solely after spotting the insect.

Mantid predation on hummingbirds has been frequently reported and photographed over the years (Butler 1949, Hildebrand 1949, Murray 1958 and Toops 1992). There are no records of predation by vertebrate or invertebrates on independent Calliope Hummingbirds (Calder and Calder 1994). True (1993) reports that this behavior has been observed in a Rufous Hummingbird (*Selasphorus rufus*) avoiding a black hornet (*Vespula maculata*).

Additional observations are needed to learn the rates of successful avoidance of predators by Calliope Hummingbirds and if this behavioral response is elicited by vertebrate as well as invertebrate predators.

We thank Mike Ramsey for helping with plant identification and Debra Bolton for reading an early draft of the note.

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- Butler, C. 1949. Hummingbird killed by preying mantis. Auk 66:286.
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- Toops, C. 1992. Hummingbirds: Jewels in Flight. Voyageur Press; Stillwater, Minnesota.
- True, D. 1993. Hummingbirds of North America: Attracting, Feeding, and Photographing. Univ. of New Mexico Press, Albuquerque.

PARTING NOTE FROM THE EDITOR

The Winter Bird Count issue will be my last as editor of the *KOS Bulletin*. Please send manuscripts for future papers to the new editor at the following address:

Gene Young
Crowder Science Hall, Rm 211
North Oklahoma College
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Tonkawa, OK 74653-03120
(Eugene.Young@north-ok.edu or youngg6264@yahoo.com)
Office: 580-628-6482, Fax: 580-628-6209

My thanks to all the authors who contributed papers for the *KOS Bulletin* over the past five years. I also thank the KOS members who reviewed those papers, often on short notice and several different times. These included Bill Busby, Greg Farley, Elmer Finck, Dale Kennedy, Peter Lowther, Town Peterson, Mark Robbins, Brett Sandercock, David Seibel, John Schukman, Max Thompson and Gene Young. I especially want to thank Roger Boyd, who acted as an associate editor, helping me put together the winter counts and providing his advice on many other manuscripts.

—Cal Cink, Editor—*KOS Bulletin*

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2006-KOS Winter Bird Count Table

Species	Alma	Arkansas City	Baldwin	Benedictine Bottoms	Black Wolf	Blue Rapids	Bonner Springs	Camp Naish	Cheyenne Bottoms	Cimarron Nat. Grassld	Clark County	Dodge City
Gr. White-fronted Goose									8161		2	
Snow Goose, White form				755					30038			
Blue Form	cw	1	480	50		cwcw	20		5			
Ross' Goose		1	120	1					75			
Canada Goose	142	6761	2966	1515	1580	377	1480	71	11034		350	
Cackling Goose	cw	1535	25	38	100	10	3		3			
Goose sp.									3180			
Tundra Swan									40			
Wood Duck									40		14	
Gadwall	2	48	54	34			18		40		3	
Am. Wigeon	cw	3	8	8			3		1			
Mallard	23	91	1600	1223	12	30	68	13	4077	3	250	151
Blue-winged Teal		1										
N. Shoveler	cw		56	9					294			1
N. Pintail									111		7	3
Green-winged Teal	10	15							1	2		
Canvasback		3	3		2		3		8	1		3
Redhead		2					8					
Ring-necked Duck	20	26	7	19			14					
Greater Scaup			6									
Lesser Scaup	3	11	55	1		37	2					
Bufflehead	1		22				2					
Common Goldeneye	34	42	54	3	7	28	7		1		70	
Barrow's Goldeneye									11	1		
Hooded Merganser			12						2			
Common Merganser	cw								12		14	
Red-breasted Merganser												
Ruddy Duck		1	9									
duck sp.									74			
Ring-necked Pheasant		2		6	3	11			15	6	1	1
Greater Prairie-Chicken												
Wild Turkey	18	111	155	13	248	30	36	325				
Scaled Quail												
N. Bobwhite	14	3		1	8	1				15	11	
Common Loon										20		
Pied-billed Grebe	1	3	4				6				5	
Horned Grebe												
Eared Grebe												
Western Grebe												
Am. White Pelican												
Double-crested Cormorant		1										
Neotropical Cormorant												
American Bittern												
Great Blue Heron	1	9	4	1	3	3	1	3	5		4	cw
Great Egret												
Green Heron												
Black-crowned Night-Heron												
Turkey Vulture												
Bald Eagle	cw	55	4	7		8	4	1	1		3	
N. Harrier	3	12	31	14	10	15	2		35	6	10	6
Sharp-shinned Hawk	cw	2	6			1	1		1	2	1	
Cooper's Hawk	cw	4	3	3	1	3	1	1		1	1	
N. Goshawk												
Accipiter sp.												
Red-shouldered Hawk		7	1				1					
Red-tailed Hawk	4	120	109	32	37	50	36	14	17	5	13	15
Harlan's		3	3	4		3	2					
Krider's												
Ferruginous Hawk					1				1	2		
Rough-legged Hawk	2	2		2					9		3	1
Buteo sp.									10			
Golden Eagle	cw											
Am. Kestrel	1	26	42	7	25	12	25	2	14	1	18	7
Merlin			2			1			1			
Peregrine Falcon												
Prairie Falcon	cw	2				1			2		6	
Falco sp.												
Virginia Rail		1										
Am. Coot	69						28		21		55	
Sandhill Crane												
Killdeer	2	7		4								
Greater Yellowlegs		2										
Lesser Yellowlegs		1										
Least Sandpiper												
Wilson's Snipe	1		1									
Bonaparte's Gull												
Ring-billed Gull	cw	15	31		1	4	6	36	6		1	
California Gull												
Herring Gull	cw											
Thayer's Gull												
Lesser Black-backed Gull												
Glaucous Gull												
gull sp.								12	2			
Forster's Tern												
Rock Pigeon	5	343	67	41	68	10	19		1	110	40	490
Eurasian Collared Dove		25			2	1			15	225	6	59
White-winged Dove												
Mourning Dove	43	78	15		2	71	24	18		2	2	29
Inca Dove										1		
Greater Roadrunner		1									1	
Barn Owl						1			3	2		
E. Screech-Owl		1	6		6	12		1				
Great Horned Owl	1	2	8		3	13	1	1	6	2	3	
Snowy Owl									1			

2006-KOS Winter Bird Count Table
Species

Species	Alma	Arkansas City	Baldwin	Benedictine Bottoms	Black Wolf	Blue Rapids	Bonner Springs	Camp Naish	Cheyenne Bottoms	Cimarron Natl. Grassld	Clark County	Dodge City
Barred Owl		1	7	1		5	2	1			1	
Long-eared Owl												
Short-eared Owl												
N. Saw-Whet Owl												
Belted Kingfisher	cw	9	6	1	1	2	3		1		4	
Red-headed Woodpecker	1		41	7			11	12				
Red-bellied Woodpecker	16	67	68	23	24	28	18	28	3		2	
Yellow-bellied Sapsucker	2	6	11		1	6		4				
Downy Woodpecker	2	31	88	14	19	16	14	28	4	1	2	1
Hairy Woodpecker	3	8	7	2	2	4	1	1	3		2	
N. Flicker		27	31	12	9	45		14	17	2	2	
Yellow-shafted Red-shafted	9	23	81		9	30	16				3	2
Pileated Woodpecker		9			1	4					2	
Eastern Phoebe		3	3	cw			2	2				
Loggerhead Shrike		5	1						2			
N. Shrike						1			2			
Blue Jay												
Black-billed Magpie	33	78	355	30	3	48	68	29		2		1
Am. Crow	43	214	338	40	18	7005	44	7	2	6	1	7
Horned Lark	10	102	58	32	553	85	8		4	3	1	1
Carolina Chickadee		111							75	30000	90	280
Black-capped Chickadee	20		240	19	39	64	47	46			1	
Tufted Titmouse	13	29	78	7		12	11	34				
Red-breasted Nuthatch												
White-breasted Nuthatch	7	22	45	2	29	24	18	18	1	cw	2	
Brown Creeper	cw	8	5		2	1	3	3				
Rock Wren												
Carolina Wren	3	36	15	4	8	8	15	21	1			
Bewick's Wren	1	7				1					5	
House Wren												
Winter Wren	cw		3	1	1		1	3				
Sedge Wren												
Marsh Wren												
Golden-crowned Kinglet	2	6	10		1		4	1	7	1	5	
Ruby-crowned Kinglet	cw	6							1	1	1	
E. Bluebird	39	186	375	23	23	155	50	25			1	
Mountain Bluebird					1							
Townsend's Solitaire										1		1
Hermit Thrush	cw	4	7					4				
Am. Robin	200	1894	2595	244	31	397	48	44	11	8	1	1
Gray Catbird												
N. Mockingbird		33	32	2		1	8	2				
Brown Thrasher												
European Starling	65	1254	13587	1252	241	24	1200	17	255	50	160	16000
American Pipit												
Cedar Waxwing	17	200	527	2	19	81	4	135	6		1	
Orange-crowned Warbler												
Yellow-rumped Warbler	8	56	93		1	4	19	25	1			
Yellow-rumped W. (Audubon)												
Spotted Towhee	cw	5	1			2				1	1	
E. Towhee												
Am. Tree Sparrow	164	159	136	108	695	904	82		987	20	110	3
Chipping Sparrow												
Field Sparrow		10									1	
Savannah Sparrow		10	1			3						
LeConte's		1										
Fox Sparrow	2	3	5			2		2			1	
Song Sparrow	8	85	88	16	60	26	5	51	60	2	7	
Lincoln's Sparrow		1	1			1						
Swamp Sparrow	cw	1	18	6			3	1				
White-throated Sparrow	cw	10	14	2			6	23				
Harris' Sparrow	82	539	131	21	662	207	19		139		15	5
White-crowned Sparrow		62	16		2	4	1			45		1
Golden-crowned Sparrow												
Unidentified Sparrow (lbb)									49			
Dark-eyed Junco	337	443	428	105	134			89	161			
Slate-colored Oregon		852	555	16	250	648				32	142	27
Pink-sided		8	1			3	250			6	8	1
McCown's Longspur										6		
Lapland Longspur	cw	500	150	3	3600				75	100	20	200
Smith's Longspur		34									1250	
Chestnut-collared Longspur											40	
longspur spp.												
N. Cardinal	11	173	305	32	36	191	48	36	13		4	2
Red-winged Blackbird	236	1868	24585	8260	6555	1182	1020		19	25	1000	1215
E. Meadowlark	3	65	207	1	1	18	2					
W. Meadowlark		1			31	21				55	210	208
<i>Sturnella</i> sp.		247	95		115	506	40		483			
Rusty Blackbird	50	2	1		1							
Brewer's Blackbird		25			20					5		
Common Grackle	cw	3	207	22		2	1		1			456
Great-tailed Grackle			149									5
Brown-headed Cowbird	75	234	3	20			200			1		
blackbird sp.		247		1000						1		
Purple Finch			7						1			
House Finch	2	16	36	10	34	20	14	2	11	35	6	2
Common Redpoll												
Pine Siskin			1			1				1		
Am. Goldfinch	13	92	125	10	26	108	76	31	2	6	10	
House Sparrow	cw	256	426	52	255	170	40	56	22	275	60	332
Total	1877	19766	52338	15193	15632	12995	5237	1005	60081	31098	4065	19888
Species	54	94	83	58	56	66	66	47	67	45	60	35

2006-KOS Winter Bird Count Table
Species

Species	El Dorado Lake	Emporia	Garden City	Halstead-Newton	Hays	John Redmond	Junction City	Kanopolis	Lawrence	Leavenworth Atchinson	Linn County	Manhattan
Gr. White-fronted Goose		296		250		306	1		60		10	25
Snow Goose, White form		2240	1			4300		15	22	3675	545	701
Blue Form						1035				500		119
Ross' Goose										1	2	1
Canada Goose	388	4009	501	1363	183	1756	545	363	2900	667	1095	4098
Cackling Goose	6	4			2	3	5		8		29	159
Goose sp.												
Tundra Swan												
Wood Duck			18			2					2	
Gadwall	10	14				64	110	5	32	4	60	159
Am. Wigeon		1	60						33		1	98
Mallard	139	5443	276	92	60	12790	885	107	1570	270	622	3850
Blue-winged Teal												
N. Shoveler	2	122				108	1		55	2	1	59
N. Pintail		27				200			8		3	
Green-winged Teal		8		1		275	10	16	194	14	1	86
Canvasback		13		1					5			11
Redhead		4							3		15	19
Ring-necked Duck		63		13		109		16	39		20	39
Greater Scaup						11						
Lesser Scaup	6	7				3					61	34
Bufflehead	10	7				35	7		24			19
Common Goldeneye	95	51	4			73	76	2630	250	7	27	620
Barrow's Goldeneye												
Hooded Merganser	21		1			27	40		60		11	103
Common Merganser	1	3				5630	38	7950	26		40	1253
Red-breasted Merganser						2						
Ruddy Duck						6						6
duck sp.												
Ring-necked Pheasant			37	7	14		7					2
Greater Prairie-Chicken		17				cw		47				14
Wild Turkey	195	153		1	12	344	31	3	123	22	87	87
Scaled Quail			25									
N. Bobwhite		16	61	30		6	4	24		16		78
Common Loon							1				4	
Pied-billed Grebe	1	2				27	1		1		10	2
Horned Grebe						2						
Eared Grebe												
Western Grebe											1	
Am. White Pelican						95			6			
Double-crested Cormorant						50	17		21		21	34
Neotropical Cormorant						2						
American Bittern												
Great Blue Heron		11	1	13	1	74	38	13	20		12	41
Great Egret												
Green Heron												
Black-crowned Night-Heron												
Turkey Vulture												
Bald Eagle	9	9				15	27	9	39	1	4	53
N. Harrier	6	36	21	21	18	29	49	16	35	8	29	36
Sharp-shinned Hawk		2	7	6	1	1	4		5	3	1	6
Cooper's Hawk	1	6		5	cw	1	5		cw			12
N. Goshawk		1										
Accipiter sp.												
Red-shouldered Hawk				3		1					9	1
Red-tailed Hawk	39	93	34	105	48	39	64	44	115	43	158	121
Harlan's		1	1	1			4		4	3	5	6
Krider's												
Ferruginous Hawk			4									
Rough-legged Hawk	6	7	4	3		3		1	3		2	2
Buteo sp.			9	12								2
Golden Eagle			1								1	1
Am. Kestrel	8	22	8	32	20	10	21	11	45	14	27	15
Merlin	1		2	1				1	1			2
Peregrine Falcon												
Prairie Falcon		2	1	2	4		1			1	2	3
Falco sp.			1	1					1			
Virginia Rail							2					
Am. Coot		29		1		677			1		41	31
Sandhill Crane												
Killdeer	1	2		2			10	2	cw			15
Greater Yellowlegs												
Lesser Yellowlegs												
Least Sandpiper												
Wilson's Snipe									1		1	1
Bonaparte's Gull									153		425	
Ring-billed Gull	163	651				1291	195	350	4250	3	225	481
California Gull												
Herring Gull	1	2				16	42	24	21			
Thayer's Gull							1					
Lesser Black-backed Gull								1				
Glaucous Gull												
gull sp.												
Forster's Tern												
Rock Pigeon	4	384	230	89	303	11	591	15	243	114	59	225
Eurasian Collared Dove		4	338	18	21		23	32	32	3	4	35
White-winged Dove			121									
Mourning Dove	2	66	10	58	4	12	20	3	163	33	3	158
Inca Dove			17									
Greater Roadrunner												
Barn Owl		2	2									
E. Screech-Owl	1	2		3	4		5		3		2	7
Great Horned Owl		1	3	3	17		8	1	5		2	5
Snowy Owl												

2006-KOS Winter Bird Count Table
Species

Species	El Dorado Lake	Emporia	Garden City	Halstead-Newton	Hays	John Redmond	Junction City	Kanopolis	Lawrence	Leavenworth Atchinson	Linn County	Manhattan
Barred Owl	2	4				4	4	3	19	6	2	8
Long-eared Owl	1	1							2			
Short-eared Owl		1				2			5			
N. Saw-Whet Owl												
Belted Kingfisher	2	5		5	2	3	4	2	11	1	3	19
Red-headed Woodpecker		12							40	20	54	44
Red-bellied Woodpecker	19	21	8	63	7	21	33	17	122	55	66	150
Yellow-bellied Sapsucker	2	3	1	2			5	1	20	6	6	39
Downy Woodpecker	12	28	16	70	6	11	16	9	116	47	58	105
Hairy Woodpecker	2	5	1	3	5	1	2	2	8	10	14	27
N. Flicker	15	9	9	102	11	24	32	24	56	25	2	112
Yellow-shafted	22	38	3	67	7	12	53	5	112	17	98	80
Red-shafted	1	4	15	7	8		9	1				6
Pileated Woodpecker	2	1				1			4	3	17	
Eastern Phoebe				1								1
Loggerhead Shrike	5		1			2		4			3	1
N. Shrike												1
Blue Jay	38	64	23	54	1	29	65	3	161	139	140	301
Black-billed Magpie			12		11							
Am. Crow	56	1153	4	73	28	287	225	36	252	110	262	5243
Horned Lark	65	67	4097	361	1387	33	12	73	165	6	219	61
Carolina Chickadee												
Black-capped Chickadee	30	47		78	3	15	34	28	258	95	64	333
Tufted Titmouse	8	11		15		15	19		97	56	62	90
Red-breasted Nuthatch		5				1			1			1
White-breasted Nuthatch	7	13	5	28	2	7	4	2	71	34	42	106
Brown Creeper	3	4	1	6		2	1		21		2	6
Rock Wren								1				
Carolina Wren	16	10	3	48	8	1	8	10	98	54	24	130
Bewick's Wren							2					6
House Wren			1		2							
Winter Wren	2			4			3	4	3	1	2	7
Sedge Wren												
Marsh Wren							2	2				
Golden-crowned Kinglet		7	2	19	2	1	2	4	13	6	9	37
Ruby-crowned Kinglet	1					1			4	3	3	7
E. Bluebird	24	72		67	2	27	139	53	251	74	254	356
Mountain Bluebird	3		52					15				
Townsend's Solitaire			1									
Hermit Thrush							1		2	2		2
Am. Robin	1442	1285	91	560	8	141	1562	450	2360	395	269	8284
Gray Catbird												
N. Mockingbird	2	3	8	22		8	4		14	4	21	8
Brown Thrasher		1	1	3		1					1	
European Starling	875	2145	113	2113	4623	332	1299	75	100000	954	10910	10426
American Pipit						12					15	
Cedar Waxwing	35	23	273	18	15	290	98	53	374	228	338	184
Orange-crowned Warbler												1
Yellow-rumped Warbler		9		13		3	36	8	76	5	53	63
Yellow-rumped W. (Audubon)												
Spotted Towhee			3	7	3		1		8			10
E. Towhee				2		3						1
Am. Tree Sparrow	100	102	72	230	720	38	380	625	327	168	149	949
Chipping Sparrow						4						2
Field Sparrow		4		3			5					
Savannah Sparrow							3	1			3	3
LeConte's				3					1		1	
Fox Sparrow		15		2			8	1	6	5	6	4
Song Sparrow	6	3	3	127	18	1	32	26	189	27	67	302
Lincoln's Sparrow			1	2			4		2			1
Swamp Sparrow							2	1	4		3	
White-throated Sparrow		1		9		4	1		86	21	11	35
Harris' Sparrow	197	72	11	787	198	135	456	160	70	82	44	513
White-crowned Sparrow	2		405	32	1	25	5	1	11	26	75	103
Golden-crowned Sparrow				1								
Unidentified Sparrow (lbb)												
Dark-eyed Junco			242	994		137		527	40	1243	10	
Slate-colored	301	155		989	210	7	925	102	1187	3	872	2067
Oregon		2		5	12			1		5	2	5
Pink-sided												
McCown's Longspur												
Lapland Longspur		2		3188	1359		121	45			45	350
Smith's Lonspur		20										
Chestnut-collared Longspur												
longspur spp.												
N. Cardinal	34	64	9	198	16	45	55	1	449	135	261	372
Red-winged Blackbird	1612	5771	127	1052022	1065	76	1500504	915	100000	460	136	1532
E. Meadowlark		111		51		34	86		7		4	14
W. Meadowlark			108	7	229		11	2	50		2	96
<i>Sturnella</i> sp.	10			439			301	36	114	19	106	55
Rusty Blackbird		3			225						14	6
Brewer's Blackbird		380						175				22
Common Grackle		9		1					360	52	3	133
Great-tailed Grackle	1		261						7125	1500	30	
Brown-headed Cowbird	3	63		2				3	2	2	1	1630
blackbird sp.												
Purple Finch		8								3	3	2
House Finch		65	334	63	24	43	287	56	80	32	3	179
Common Redpoll						1						
Pine Siskin			3					4				cw
Am. Goldfinch	20	60	44	177	9	40	141	32	247	53	50	447
House Sparrow	103	218	1588	81	46	104	329	175	395	165	302	537
Total	6197	26003	9757	1065361	10984	31428	1510224	15499	226153	11758	18896	48550
Species	62	89	65	73	47	83	81	67	90	63	9	102

2006-KOS Winter Bird Count Table
Species

	Olathe	Olsburg	Oskaloosa Perry	Parsons	Pomona	Quivira	Red Hills	Salina	Sawyer	Scott Lake	Seneca
Gr. White-fronted Goose			4			85760			625		
Snow Goose, White form			35	850	200	110600		2	2422	16	854
Blue Form						850			300	6	177
Ross' Goose						275	3				
Canada Goose	3314	140	1361	2467	456	108500	1110	1473	6464	376	120
Cackling Goose	6		4		3	650	162	176	34	47	5
Goose sp.									5000		
Tundra Swan						5					
Wood Duck				2		4			3		
Gadwall	97	2	51	3	18	36	30	30	1		3
Am. Wigeon	2				2	2	74	9	3	14	1
Mallard		143	3367	3329	45	15750	6	102	95	116	631
Blue-winged Teal						1			9		
N. Shoveler	2	8	18	36		20					4
N. Pintail	1		4	1		65				1	1
Green-winged Teal	3		2	1		62	1	2		62	
Canvasback						10				1	1
Redhead	3		1	3						1	1
Ring-necked Duck	22	1	41	42	5	2	5	1		1	37
Greater Scaup	1										
Lesser Scaup	1		14	6	1	27		1			
Bufflehead			3	9		4		1			
Common Goldeneye	10	32	153	8	26	55	3	14	4	2	7
Barrow's Goldeneye											
Hooded Merganser		4	22	5	1	15					
Common Merganser		17	55	3	1	113					
Red-breasted Merganser			3			1					
Ruddy Duck	3			3		13					
duck sp.			24		20		27	59			
Ring-necked Pheasant		5	6			18		13	1	12	6
Greater Prairie-Chicken		8						18			
Wild Turkey	11	88	27	100	3	420	134	18	44	52	9
Scaled Quail											
N. Bobwhite		23	58	9	12	55	2	1	3		9
Common Loon	1				1						
Pied-billed Grebe	11		8		2			1			
Horned Grebe			1								
Eared Grebe			2								
Western Grebe											
Am. White Pelican					2	1					
Double-crested Cormorant											
Neotropical Cormorant			cw								
American Bittern			1								
Great Blue Heron	7	1	19	5	10	31	5	4	8	1	1
Great Egret											
Green Heron								1			
Black-crowned Night-Heron											
Turkey Vulture			1								
Bald Eagle	3	6	24	19	6	41	1				1
N. Harrier	1	28	36	10	14	91	10	22	14	29	9
Sharp-shinned Hawk		1			5	1	1	5	3	2	1
Cooper's Hawk	3	2	2		3	3	2	2	1	1	
N. Goshawk					1						
Accipiter sp.			1					2			
Red-shouldered Hawk				2	1						
Red-tailed Hawk	56	69	135	68	51	114	23	45	33	24	13
Harlan's		4	1		37	6	1	4			
Kriger's		2						1			
Ferruginous Hawk		3				4					
Rough-legged Hawk		6				5	2		6	3	
Buteo sp.			1		1			4			
Golden Eagle											
Am. Kestrel	33	7	28	22	18	23	13	16	25	12	5
Merlin		2		1	1	7		1		2	1
Peregrine Falcon											
Prairie Falcon		1		2		5	1	1	5	1	1
Falco sp.								3			
Virginia Rail						7					
Am. Coot	58		357	40	7	4		5		2	
Sandhill Crane											
Killdeer						48000			70		
Greater Yellowlegs						3				1	
Lesser Yellowlegs						4					
Least Sandpiper											
Wilson's Snipe			1								
Bonaparte's Gull											
Ring-billed Gull	176	2	1516	28	34	42					1
California Gull											
Herring Gull	1				4	1					
Thayer's Gull											
Lesser Black-backed Gull											
Glaucous Gull											
gull sp.			30								
Forster's Tern											
Rock Pigeon	259	8	15	20	14		4	619	22	93	42
Eurasian Collared Dove			4		26		10	6	10	130	
White-winged Dove											
Mourning Dove	149	1	22	166	41		95	68	6		
Inca Dove											
Greater Roadrunner									cw		
Barn Owl											
E. Screech-Owl	2	2	2	1	2	4					
Great Horned Owl	2	1	1	7	5	13		1	1	6	2
Snowy Owl						1					

2006-KOS Winter Bird Count Table
Species

	Olathe	Olsburg	Oskaloosa Perry	Parsons	Pomona	Quivira	Red Hills	Salina	Sawyer	Scott Lake	Seneca
Barred Owl	2		7	3	10			1			
Long-eared Owl					2	1					
Short-eared Owl					5	4					1
N. Saw-Whet Owl								2	cw		
Belted Kingfisher	12		4	1	2	2	2	1	5	3	
Red-headed Woodpecker	25	9	62	1	17						
Red-bellied Woodpecker	48	44	86	39	46	15	11	27	25	5	14
Yellow-bellied Sapsucker	1	18	10	4	6		1	4	2		
Downy Woodpecker	50	25	69	38	35	22	6	19	23	8	3
Hairy Woodpecker	2	8	9	4	8	5	3	1	5		6
N. Flicker	33	42	8	14	18	148	37	13	14	13	
Yellow-shafted		11	88		50	24	8	31	6	3	13
Red-shafted		4	4			6	7	1	3	20	
Pileated Woodpecker	1			2	2						
Eastern Phoebe				1							
Loggerhead Shrike	1		8	1	7	1	1				
N. Shrike					1						
Blue Jay	137	161	264	48	85		3	29		2	7
Black-billed Magpie										5	
Am. Crow	139	2416	405	86	157	7	401	17	49		74
Horned Lark	1			222	1385	34	1		210	241	8
Carolina Chickadee				50			22		17		
Black-capped Chickadee	74	94	116		71			56	22		15
Tufted Titmouse	33	59	46	24	33		6	5	12		2
Red-breasted Nuthatch	2		cw		4			5			
White-breasted Nuthatch	25	15	39	9	21	8		13	38	2	12
Brown Creeper	2	1	11		2				2	2	1
Rock Wren							1				
Carolina Wren	39	9	27	18	20		1	11	14	3	1
Bewick's Wren		1	1				2				
House Wren						1					
Winter Wren	1	1	1		2			1	2	1	
Sedge Wren						1					
Marsh Wren						24			2	3	
Golden-crowned Kinglet	4	1	7		3		2	5	10	5	3
Ruby-crowned Kinglet		2	2			3			1		
E. Bluebird	116	99	273	55	177	53	108	17	36	25	12
Mountain Bluebird						147	686		69	21	
Townsend's Solitaire		1				1				7	
Hermit Thrush					2						
Am. Robin	16	135	1250	39	1547	231	3926	619	492	234	408
Gray Catbird						1					
N. Mockingbird	8	1	12	21	17	1		1			
Brown Thrasher	11							1			
European Starling	1353	216	2656	105	475	1650	255	5448	124	161	84
American Pipit					1						
Cedar Waxwing		74	233	36	249	2	61	cw	117	33	27
Orange-crowned Warbler											
Yellow-rumped Warbler	3	10	16	5	28	48	12	2	23		
Yellow-rumped W. (Audubon)											
Spotted Towhee		5	3								
E. Towhee	1	10									11
Am. Tree Sparrow	41	122	455	21	234	1880	247	258	250	21	24
Chipping Sparrow											
Field Sparrow			7			8	4		2		
Savannah Sparrow		7	2			5	120	1			
LeConte's											
Fox Sparrow		6	16		1	1				9	2
Song Sparrow	37	58	42	53	28	243	15	18	46	15	4
Lincoln's Sparrow		2	17			1		1			
Swamp Sparrow	3	3			1	11	2	1	1	3	
White-throated Sparrow	17		22	6	2	1		2	1		
Harris' Sparrow	16	57	103	18	159	655	1519	344	115	13	11
White-crowned Sparrow	7	1	2	37	22	18	70			14	
Golden-crowned Sparrow											
Unidentified Sparrow (lbb)								417			
Dark-eyed Junco	824		603	154	191	950		155	197	41	84
Slate-colored	822	719	985		299		1547	541	50	56	
Oregon		1	16		1	2	6	7	1	35	
Pink-sided							1				
McCown's Longspur											
Lapland Longspur					304	850			20	8998	
Smith's Lonspur											
Chestnut-collared Longspur											
longspur spp.											
N. Cardinal	83	133	240	111	102	32	20	96	35	11	18
Red-winged Blackbird	3029	424	7549	252	6582	280000	2223	664	1420	1075	231
E. Meadowlark	8		143	87	139	14	1	1	10		
W. Meadowlark		1	3		5	33		12	10	45	80
<i>Sturnella</i> sp.		14	166		46	422	237	159	402		
Rusty Blackbird					51				1		63
Brewer's Blackbird						1	35	201	475		75
Common Grackle	71		43	75		3				9	
Great-tailed Grackle	662					25				1	
Brown-headed Cowbird	250		2				1	242			60
blackbird sp.								3454			
Purple Finch			2		1				8		
House Finch	29	31	38	8	68	3	2	70	9	134	2
Common Redpoll											
Pine Siskin			1								
Am. Goldfinch	89	182	146	29	82	32	6	131	42	23	1
House Sparrow	138	98	228	40	169	15	37	387	25	507	15
Total	12496	5939	24308	8992	12797	659376	13381	16206	19655	12831	3305
Species	73	69	87	69	84	95	61	71	67	63	59

2006-KOS Winter Bird Count Table

Species	Slate Creek Oxford	SE KS Mine Lands	Topeka	Udall Winfield	Waconda Lake	Wakefield	Webster Reservoir	Wichita	Wilson Lake	Yoder	Totals
Gr. White-fronted Goose					8			215	12		95735
Snow Goose, White form		280	2500	77	36000	25		46	8		196708
Blue Form		70	5	2	200			1			3440
Ross' Goose				3	3			2			367
Canada Goose	1805	149	6465	2609	4900	170	3500	14357	8329	654	213234
Cackling Goose	254		15	707	45		40	2332	107		6517
Goose sp.											8180
Tundra Swan											5
Wood Duck	4							41			116
Gadwall	32	11	29	83		7		255	4		1360
Am. Wigeon	41		2	22	6			153	62		612
Mallard	31613	86	1844	1387	42250	370	5500	2038	236	142	142995
Blue-winged Teal	2										14
N. Shoveler	56		13	6	108	6		192	13		1192
N. Pintail	29				1			1			463
Green-winged Teal	38	1	25	16	3	9		148	1		1007
Canvasback	3	1	5		14			51			131
Redhead					19	3		16	75		181
Ring-necked Duck	21	9	56	18	1	89		113			851
Greater Scaup								27			45
Lesser Scaup	4	2	65	15	10	75		700	1		1142
Bufflehead			64	4	14	22		130	23		402
Common Goldeneye	26		87	179	415	278	18	150	207		5764
Barrow's Goldeneye								2			2
Hooded Merganser			24	8	3	5	4	160	12		540
Common Merganser			8	2	18040	262	275		15		33758
Red-breasted Merganser					3						9
Ruddy Duck			2			1		65			109
duck sp.		10									235
Ring-necked Pheasant	13	1		2	14	5	2	4	22	21	239
Greater Prairie-Chicken					25					3	111
Wild Turkey		86	41	237	38	25	165	52	40	120	3923
Scaled Quail											40
N. Bobwhite	32	15	6	22	1	3	1	1	20	7	573
Common Loon									10		17
Pied-billed Grebe	3	2	23	2	2			39			156
Horned Grebe			2								5
Eared Grebe											2
Western Grebe											1
Am. White Pelican					2	6				35	147
Double-crested Cormorant	1			21	2			cw			168
Neotropical Cormorant											2
American Bittern											1
Great Blue Heron	28	4	23	16	10	12	7	46	2	5	503
Great Egret								cw		cw	
Green Heron											1
Black-crowned Night-Heron								3			3
Turkey Vulture			1								2
Bald Eagle	16	3	12	9	31	21	2	17	4		465
N. Harrier	107	41	14	37	134	19	16	5	32	34	1151
Sharp-shinned Hawk	2	5	5	4	2	1	1	6	2		96
Cooper's Hawk	2		1	1	3	1	2	4	3		84
N. Goshawk							1	1			4
Accipiter sp.										3	9
Red-shouldered Hawk	3	4	1	2				2			38
Red-tailed Hawk	189	116	62	163	106	58	83	114	100	59	3026
Harlan's	3	2	1	3		9	3	4	1	1	120
Krider's						1					4
Ferruginous Hawk					1	2	1		1		20
Rough-legged Hawk	2	1		4	4	3	2			1	91
Buteo sp.		5	3	1		4				17	69
Golden Eagle											3
Am. Kestrel	43	39	27	60	19	1	28	14	55	31	932
Merlin	1			1	1	3	1	2	1		37
Peregrine Falcon			1								1
Prairie Falcon,	3	2	1	2	6	2	1	3	7	5	76
Falco sp.											5
Virginia Rail									1		13
Am. Coot	11		28		4			112	1587		3166
Sandhill Crane											48070
Killdeer	1		3	3		5		11	1		73
Greater Yellowlegs											6
Lesser Yellowlegs											1
Least Sandpiper								1			1
Wilson's Snipe			3	3				19			31
Bonaparte's Gull			4	11		15	2				610
Ring-billed Gull	42		317	92	355	578	65	666	76	99	11795
California Gull				1	1						1
Herring Gull			1	1	62		30	1	3		210
Thayer's Gull					1						2
Lesser Black-backed Gull					1			1			3
Glaucous Gull							1				1
gull sp.			98								142
Forster's Tern						12					12
Rock Pigeon	42	44	449	128	15	11	21	1664	9	49	6993
Eurasian Collared Dove	22	10	10	5	25	1		22	8	60	1192
White-winged Dove											121
Mourning Dove	14	10	389	61	12	7		70	4	62	1993
Inca Dove											18
Greater Roadrunner											2
Barn Owl	1			1	5	2					19
E. Screech-Owl	6	4		10	5	3	1	4	3		102
Great Horned Owl	17	6	1	18	7	2	2	5	6	2	190
Snowy Owl									cw		2

2006-KOS Winter Bird Count Table
Species

Species	Slate Creek Oxford	SE KS Mine Lands	Topeka	Udall Winfield	Waconda Lake	Wakefield	Webster Reservoir	Wichita	Wilson Lake	Yoder	Totals
Barred Owl	21	4		32		6		2			158
Long-eared Owl	4				6			2			20
Short-eared Owl	23		3			1			10		57
N. Saw-whet Owl						1					1
Belted Kingfisher	4	4	13	9				17	2		166
Red-headed Woodpecker		5	26	3	2	2					394
Red-bellied Woodpecker	34	63	90	74	16	21	9	24	26	21	1597
Yellow-bellied Sapsucker	2	5	4	7	1	3		cw	1		184
Downy Woodpecker	15	48	77	41	12	16	12	50	22	16	1321
Hairy Woodpecker	4	7	5	15	2	4	2	9	4	2	218
N. Flicker	29	64		45	8	24	29	22	27	69	1228
Yellow-shafted	4	11	67	41	19	10	1	29	23	1	1127
Red-shafted		1		1							119
Pileated Woodpecker	1	3		2				2	2		49
Eastern Phoebe											3
Loggerhead Shrike	8	9		7	1				6	2	77
N. Shrike	1			1					1		7
Blue Jay	21	114	246	130	1	22	1	78	3	19	3036
Black-billed Magpie							6		1		50
Am. Crow	299	169	233	341	23	240	20	31604	40	114	52281
Horned Lark	1071	1220	25	280	2320	25	96	32	170	8755	52685
Carolina Chickadee	54	114		87							456
Black-capped Chickadee			130	32	18	26	6	102	16	34	2272
Tufted Titmouse	14	48	61	31		1		13			945
Red-breasted Nuthatch				1			1	1			22
White-breasted Nuthatch	3	13	46	13	17	10	5	8	9	9	804
Brown Creeper	1	4	20	5	6	1		3		1	131
Rock Wren									1		2
Carolina Wren	11	31	45	39		14	1	47	3	9	867
Bewick's Wren				2							28
House Wren										1	5
Winter Wren	1		4					6	2		57
Sedge Wren											1
Marsh Wren						1		2	7		43
Golden-crowned Kinglet	1	11	17	8	2	3	1	18	6	5	254
Ruby-crowned Kinglet	2	2	4	2				12		1	56
E. Bluebird	74	82	128	272	5	37	16	2	164	15	3962
Mountain Bluebird									624		1619
Townsend's Solitaire							1		6		18
Hermit Thrush	1	4	1			1					31
Am. Robin	944	67	3644	25894	14	91	18	290	2166	698	65044
Gray Catbird						1					2
N. Mockingbird	6	37	4	17		1		6	1	2	307
Brown Thrasher			1	1				1		1	23
European Starling	1855	1382	4328	6780	1750	1201	250	4478	184	1351	204057
American Pipit											28
Cedar Waxwing	64	87	149	127		10	1		100		4291
Orange-crowned Warbler								cw			1
Yellow-rumped Warbler	2	20	36	27	1	11	1	38	36	5	767
Yellow-rumped W. (Audubon)									1		1
Spotted Towhee	4		3	1		1	1	4	5	2	82
E. Towhee											17
Am. Tree Sparrow	146	39	53	572	2400	388	380	162	2277	356	17554
Chipping Sparrow		1	4								11
Field Sparrow	2	12		8				6		16	88
Savannah Sparrow	46	6		2				4			217
LeConte's											6
Fox Sparrow	3	9	6	1		7	1	9	6		139
Song Sparrow	69	71	57	59	69	35	15	172	66	59	2440
Lincoln's Sparrow			4			1					39
Swamp Sparrow	8	5				1			1		150
White-throated Sparrow	5	43	155	3		12		69	5		566
Harris' Sparrow	825	128	81	2605	286	257	55	360	441	495	13089
White-crowned Sparrow	143	176	2	40	59	19	20	3	34	21	1505
Golden-crowned Sparrow											1
Unidentified Sparrow (lbb)											466
Dark-eyed Junco	335	350	859	1244	150	754	240		23	562	12606
Slate-colored	254		40	1281	700			1476	981		19338
Oregon	2		6	23				14	25		205
Pink-sided								2			9
McCown's Longspur											20
Lapland Longspur	4825	95		460	18350		45	62	81	73	45151
Smith's Lonspur											54
Chestnut-collared Longspur	3										43
longspur spp.		1									1
N. Cardinal	104	342	195	287	28	113	12	345	56	108	4991
Red-winged Blackbird	135850	2351	3483	7436	14550	382	575	611	3982	12549	3195103
E. Meadowlark	26	5	10	5					2		1055
W. Meadowlark	10	1		1	2		125		28		1387
<i>Sturnella</i> sp.	848	629	162	848	425	29		50	248	578	7829
Rusty Blackbird	2			51							477
Brewer's Blackbird	50			1255	5				395	325	3444
Common Grackle	1000	26	40	25					270		2812
Great-tailed Grackle								3			9763
Brown-headed Cowbird	50	21		466	1				35	8	3375
blackbird sp.	10001	154		50		200000				332	215238
Purple Finch			9								44
House Finch	9	27	85	60	2	3	14	82	64	7	2101
Common Redpoll											1
Pine Siskin									2		13
Am. Goldfinch	1045	89	161	162	54	41	44	149	128	16	4474
House Sparrow	416	115	322	218	165	47	380	558	392	347	10606
Total	195187	9344	27580	57588	144407	206013	12159	65130	24316	28395	4779390
Species	92	74	86	95	82	82	61	96	88	54	7233333