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THE WINTER BIRD COUNT FOR 1999

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This year marked the 100th year for National Audubon Society's Christmas Bird Count's (CBC's) throughout North America. About one-half of the CBC's reported in the KOS Bulletin are also reported to Audubon.

Unlike last years CBC's that were preceded by mild weather followed by cold weather, this year's count had pleasant weather in most parts of the state throughout the count period (18 December 1999 - 16 January 2000). Only 23.6% of the counts (13) never broke above the freezing mark, while 86% (31) reached temperatures above 40°F. Ten counts had high temperatures above 60°F, with Old Garfield reporting a high of 72°F. The mild weather also accounted for a respectable, 637 observers on this year's count. Kansas averaged 615 observers for the 1990's. One new count was added this year, Jetmore. That brings a total count for Kansas CBC's to ca. 108, allowing for some variation with combining and renaming of counts. The 55 CBC's conducted during 1999 ties the record of 55 set last year. For the 1990's, Kansas has averaged 48 CBC's per year.

This year's CBC with a record shattering 176 species, will go down in history as a record for number of species recorded, exceeding the previous record of 165 set in 1998 (average of 159 for the 1990's). New species to the counts this year included a Great Egret that was observed on the Leavenworth/Atchison count (was actually observed on the Missouri side of the count), six White-faced Ibis (five at Cheyenne Bottoms, and one at Quivira), a Willet at Quivira, an incredible five Eastern Phoebe (two at Red Hills, two at Sawyer, and one at Slate Creek, one also on count week at Baldwin), a Tree Swallow at Manhattan, a Sage Thrasher at Southwest Finney County, and a Northern Parula at the Udall/Winfield count. Other rare or unusual birds included the following: eight Eared Grebes (one each at Cedar Bluff, Cheyenne Bottoms, and Slate Creek, and five at Topeka); Turkey Vulture at Old Garfield; three American Black Ducks (two at Lawrence and one at Linn County); Barrow's Goldeneye at Cheyenne Bottoms; Whooping Crane at Cheyenne Bottoms; 27 Franklin's Gull (26 at Cheyenne Bottoms and one at Manhattan); eight Burrowing Owls (five at Garden City and three at Cimarron National Grasslands); seven Inca Doves (six at Meade and one at Slate Creek); Chihuahuan Raven at Cimarron National Grasslands; six House Wrens (one each at Cimarron National Grasslands and Red Hills, four at Hays); Sedge Wren at Red Hills; Sprague's Pipit at Udall/Winfield; Pine Warbler at Manhattan; Audubon's Warbler at Cimarron National Grasslands; Palm Warbler at Olsburg; 18 LeConte's Sparrows (two at Baldwin, one each at Halstead/Newton, Junction City, Oskaloosa/Perry Lake, Red Hills, and Udall/Winfield, eight at Lawrence, and three at Slate Creek); Henslow's Sparrow at Manhattan; Red Crossbill at Scott Lake; and three White-winged Crossbill (two at Cimarron National Grasslands and one at Lawrence).

Through the 1999-2000 CBC, 261 species have been recorded. Of these, a little over half, 143 (54.8%) have been non-passerines and 118 (45.2%) are passerines. While most people could probably guess what groups are represented by the most

species (ex. waterfowl, hawks, sparrows, blackbirds, finches), groups such as herons (six species), shorebirds (17 species), and warblers (10 species) are well represented. There are a few groups recorded in Kansas that have five or more species in them and all have been recorded on CBC's: geese (five species); owls (10 species); wrens (eight species); and thrashers (five species). Waterfowl and sparrows represent the groups with the greatest number of species recorded with 33 and 31 respectively.

Of the 10,534,693 birds (3,680,688 average for the 1990's) observed this year 88.8% were represented by two species, Red-winged Blackbird with 8,185,538 (45.7% at Arkansas City with 3,745,000, 37.6% at Slate Creek Wetlands with 3,075,000, and 12.2% at Cheyenne Bottoms with 1,000,000), and European Starling with 1,164,850 (85.8% from Arkansas City with 1,000,000). Other species with large numbers include the Mallard with 228,033; Common Grackle with 162,036; Canada Goose with 134,308; and American Crow with 117,917 individuals.

Arkansas City had the most number of individuals with 5,006,658 followed by Slate Creek (3,101,088) and Cheyenne Bottoms (1,014,964). The Lawrence count surpassed the century mark with 104 species which was the highest number of species ever recorded on a Kansas CBC. Manhattan followed closely with 100 species, Udall/Winfield and Slate Creek with 95 species, Linn County with 94 species, and Olsburg with 90 species. Tribune had the least number of individuals with only 89 recorded that consisted of a mere 17 species but all were recorded from a feeder, including a Brown Thrasher, Northern Mockingbird, and Curve-billed Thrasher.

Mild temperatures provided habitat (only 9.2% of counts reported that still water was frozen) for an interesting mix of waterbirds. In general, species that you would expect in higher numbers because of the mild weather increased from last year (ex. Common Loon, Eared Grebe, Western Grebe, American White Pelican, Double-crested Cormorant, Gadwall, Northern Shoveler, Northern Pintail, Lesser Scaup, and Hooded Merganser). Species that you would normally expect in larger numbers during the winter, decreased from last year (ex. all geese, Mallard, Canvasback, Redhead, Bufflehead, and Common Merganser). As is typical with wild populations, there are the exceptions like Wood Duck, American Wigeon, Blue-winged Teal, Green-winged Teal, which decreased from last year while Ring-necked Duck and Common Goldeneye were recorded in greater numbers.

For the second year in a row Virginia Rail's were fairly common in the western half of the state with 22 being reported (eight at Lakin, two at Liberal/Steward, three at Meade, two at Old Garfield, five at Red Hills, and two at Scott Lake). The 7,802 Sandhill Cranes are down for the second year in a row from 11,188 in 1998 and 25,002 in 1997. However, they were observed on eight counts with 5,000 at Quivira, 1,374 at Meade, 1,016 at Red Hills, 326 at Lakin, 75 at Kirwin, 9 at Cheyenne Bottoms, and 1 each at Garden City and Syracuse.

Shorebirds were well represented with 93 Killdeer (98 in 1998), 15 Greater Yellowlegs, a Semipalmated Sandpiper in Wichita, 21 Least Sandpiper (17 in Wichita and four at Lawrence), a Dunlin at Liberal/Seward County, 35 Snipe (81 in 1998) and 48 unidentified shorebird species. The Red-tailed Hawk (3,590 in 1999 and 2,891 in 1998), Harlan's Hawk (74 in 1999 and 67 in 1998), American Kestrel (990 in 1999 and 875 in 1998) and Prairie Falcon (75 in 1999 and 73 in 1998) increased from the previous year while all other diurnal raptors decreased or remained the same. Ring-necked Pheasant, Scaled Quail, and Lesser Prairie Chicken (39 in 1999, 24 in 1998) increased from last year while Northern Bobwhite, Greater Prairie Chicken (113 in 1999, 168 in 1998 not 875 as reported in last year's report), and Wild Turkey decreased in numbers.

Mourning Dove numbers rebounded from last year with 3,090 individuals (2,455 in 1998) still well above the average 2,092 from 1991-1999. Woodpecker numbers increased from the previous year with the exception of the Downy Woodpecker, Red-shafted Flicker, and Ladder-backed Woodpecker. The Ladder-backed Woodpecker was not recorded for the first time since the 1981-1982 CBC season. The Pileated Woodpecker, after recording 29 individuals in 1998 and 1997 dropped by one to 28 this year. The Black-capped Chickadee, Carolina Chickadee, Red-breasted Nuthatch,

White-breasted Nuthatch, Ruby-crowned Kinglet, Golden-crowned Kinglet, Eastern Bluebird, and Mountain Bluebird all showed increases from the previous year. Townsend's Solitaire (six in 1999 and 42 in 1998) and Hermit Thrush (13 in 1999 and 29 in 1998) had large decreases in 1999. Loggerhead Shrike numbers decreased from last year (98 in 1998) with only 80 being recorded. This is the lowest total for the 1990's and well below the 1990's 145/year average.

For sparrows, the typical trend was for migratory species to increase from last year, while winter species had decreasing numbers from the previous year. White-crowned Sparrow, Dark-eyed Junco, and all of the longspurs decreased while Savannah Sparrow, LeConte's Sparrow, Fox Sparrow, Song Sparrow, Lincoln's Sparrow, Swamp Sparrow, and White-throated Sparrow all increased from last year. Of the most abundant sparrows, the Tree Sparrow with 18,711 (24,236 average from 1991-1999) and Harris Sparrow with 12,093 (12,380 average from 1991-1999) both decreased for the third consecutive year.

Eastern Meadowlarks decreased from 2,113 (1998) to 2,016 which is below the average of 2,243 for 1991-1999. Meadowlark species increased from 7,222 (1998) to 9,660 individuals this year (7,702 average for 1991-1999). The 5,948 Western Meadowlarks was the highest number recorded from 1991-1999 (4,233 average for same period). The 84,789 Brown-headed Cowbirds is the highest recorded from 1991-1999 (average of 23,201 per year recorded between 1991-1999). Rusty Blackbirds (23,099) and Brewer's Blackbirds (18,646) were also seen in good numbers.

The House Finch decreased for the fourth consecutive year from 3,612 individuals in 1998 to 3,330 in 1999 (4,388 average from 1991-1999). Purple Finches were recorded in high numbers with 327 individuals, most from the eastern half of Kansas. The American Goldfinch with 4,970 individuals was the lowest total recorded from 1991-1999 (6,454 average from 1991-1999) and it represented a decline for the third consecutive year. Pine Siskin's with 319 individuals were also the lowest total recorded from 1991-1999 (average of 1,141 for same period).

The Rock Dove with 10,312 individuals was the highest number recorded from 1991-1999 (7,387 average for the same period) while the House Sparrow with 12,714 decreased, reaching its lowest number from 1991-1999 (21,706 average for same period).

Following is a summary for high counts of individuals that were posted in 1998 and submitted to the National Audubon Society according to the American Birds 99th Christmas Bird Count issue: Quivira NWR with 175,000 Greater White-fronted Geese (the most ever recorded by a CBC reported to Audubon, breaking the previous year's record of 96,300 by Quivira), 250,000 Canada Geese, and 10,505 Sandhill Cranes; Cimarron with 3 Lesser Prairie Chickens, 36 Ferruginous Hawks, 263 McCown's Longspurs, and 1,271 Chestnut-collared Longspurs; Udall-Winfield with 3,146 Harris's Sparrows; Waconda Lake with 2,500 Common Goldeneyes; Linn County with a Krider's Red-tailed Hawk; Halstead/Newton with 600 Wild Turkey, and 14,066 Lapland Longspurs; Arkansas City with 250,000 American Robins, 750,000 European Starlings, and 50,000 Rusty Blackbirds; and Hays with 5,347 House Sparrows.

Alma/Lake Wabaunsee. 38°56'N 96°17'W. Center as described in 1995. 25 December 1999; 7:30 a.m. to 5:15 p.m.; 24° to 58°F. Wind SW 0-10 mph. Still water frozen, moving water partly open; a.m. clear, p.m. clear. One observer in 1 party. Total party-hours 9.5 (4 on foot, 5.5 by car), plus 0.75 hours owling. Total party-miles 108 (8 on foot, 100 by car), plus 14 miles owling. Total 59 species; 3,926 individuals.

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

Arkansas City. 37°02'N 97°02'W. Center as described in 1978. 26 December 1999; 7:30 a.m. to 5:45 p.m.; 28°F to 47°F. Wind N 5-25 mph. Still water open, moving water open; a.m. clear, p.m. partly cloudy. Ten observers in 4 parties. Total party-hours 36.75 (9 on foot, 27.75 by car), plus 3 hours owling. Total party-miles 290 (10 on foot, 280 by car), plus 55 miles owling. Total 82 species; 5,006,658 individuals.

Wallace Champeny, Dan Kilby, Mike Lesan, Patty Marlett, David Seibel, Steve

Seibel, Shawn Silliman, Eddie Stegall, Saville Stegall, Eugene Young (compiler-1707 N 7th St., Arkansas City, KS 67005).

Baldwin. 38°47'N 95°16'W. Center as described in 1986. 27 December 1999; 5:15 a.m. to 5:15 p.m.; 31°F to 37°F. Wind N 25-30 mph. Still water partly open, moving water partly frozen; a.m. cloudy, light rain and snow, p.m. partly cloudy. Twenty-one observers in 9 parties, plus 1 at feeders. Total party-hours 64 (10.5 on foot, 53.5 by car), plus 1 hour at feeders, 4 hours owling. Total party-miles 488 (11 on foot, 477 by car), plus 41 miles owling. Total 89 species; 30,021 individuals.

Genny Agin, Richard Bean, Jan Boyd, Roger Boyd (compiler-P. O. Box 65, Baker University, Baldwin City, KS 66006), John Brockway, Johnnie Brockway, Anna Busby, Bill Busby, Amy Cink, Cal Cink, Joe Herrington, Katharine Kelley, Tom Kreissler, Barbara Pressgrove, Martin Pressgrove, Mike Stoakes, Bill Trelec, Jr., Margaret Wedge, Phil Wedge, Larry Williams, Joyce Wolf.

Black Wolf/NW Ellsworth Co. 38°45'N 98°22'W. Center as described in 1993. 8 January 2000; 8:00 a.m. to 5:30 p.m.; 28°F to 45°F. Wind S 0-15 mph. Snow 0-2 inches. Still water partly frozen, moving water open; a.m. partly cloudy, foggy, p.m. partly cloudy. Five observers in 1 party, plus 2 at feeders. Total party-hours 9 (3 on foot, 6 by car), plus 4 hours at feeders. Total party-miles 100 (3 on foot, 97 by car). Total 60 species; 3,182 individuals.

Jim Mayhew, Carolyn Nondorf, Beth Ptacek, Ellen Rader, Jennifer Rader, Mike Rader (compiler-P. O. Box 395, Wilson, KS 67490), Matt Smith..

Bonner Springs. 39°11'N 94°54'W. Center as described in 1995. 2 January 2000; 7:00 a.m. to 5:30 p.m.; 37°F to 56°F. Wind SW 20-2 mph. Still water open, moving water open; a.m. cloudy, p.m. clear. Nine observers in 5 parties, plus 2 at feeders. Total party-hours 49 (6 on foot, 43 by car), plus 0.5 hours at feeders and 1.5 hours owling. Total party-miles 383 (9 on foot, 374 by car), plus 13 miles owling. Total 83 species; 23,673 individuals.

Michael Cooper, Chris Hobbs, Hugh Jefferies, Tom Martin, Lloyd Moore, Galen Pittman (compiler-12042 258th St., Lawrence, KS 66044), Richard Rucker, John Schukman, Phil Wedge.

Camp Naish. 39°04'N 94°54'W. Center as described 1982. 29 December 1999; 6:15 a.m. to 5:15 p.m.; 32°F to 66°F. Wind S 4 mph. Still water open, moving water open; a.m. clear, p.m. clear. Six observers in 2 parties. Total party-hours 18 (16 on foot, 2 by car), plus 1 hour owling. Total party-miles 16 (12 on foot, 4 by car), plus 3 miles owling. Total 44 species; 1,248 individuals.

Ed Hubert, Alexis Powell, David Reber, Jim Roth, Stan Roth (compiler-532 Oklahoma St., Lawrence, KS 66046-4834), Scott Sharp.

Cedar Bluff. 38°45'N 99°46'W. Center as described in 1985. 16 December 1999; 8:00 a.m. to 5:30 p.m.; 24°F to 50°F. Wind SW 0-25 mph. Still water partly frozen, moving water partly frozen; a.m. clear, p.m. clear. Four observers in 1 party. Total party-hours 8.5 (4.5 on foot, 4 by car). Total party-miles 78 (3 on foot, 75 by car). Total 65 species; 29,792 individuals.

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

Cheyenne Bottoms Wildlife Refuge. 38°26'N 98°35'W to 38°31'N 98°44'W Center as described 1977. 20 December 1999; 8:30 a.m. to 12:45 p.m.; 16°F to 24°F. Wind N 10-20 mph. Still water partly frozen; a.m. partly cloudy. Eight observers in 4 parties, plus 2 at feeders. Total party-hours 14 (4.5 on foot, 9.5 by car), plus 0.75 at feeders. Total party-miles 102 (5 on foot, 97 by car). Total 75 species; 1,014,966 individuals.

Gary Barr, Mike Ernst, Karl Grover, Helen Hands (compiler-56 NE 40 Rd., Great Bend, KS 67530), Rob Penner, Gene Schneweis, Kim Schneweis.

Cimarron National Grasslands. 37°07'N 101°52'W. Center as described 1972. 31 December 1999; 8:00 a.m. to 6:00 p.m.; 38°F to 60°F. Wind SW 10 mph. Still water open, moving water open; a.m. clear, p.m. clear. Nine observers in 3 parties. Total party-hours 20 (5 on foot, 15 by car). Total party-miles 205 (10 on foot, 195 by car). Total 67 species; 4,548 individuals.

T. Giddins, S. Patti (compiler-552 W. Belden, Chicago, IL 60614), M. Rader, D. Seltman, S. Seltman, L. Smith, L. Smith, R. Smith, J. Woodward.

Dodge City. 37°46'N 100°00'W. 18 December 1999; 7:45 a.m. to 4:45 p.m.; 22° to 39°F. Wind NW 22 mph. Still water open, moving water open; a.m. foggy, p.m. partly cloudy. Eighteen observers in 5 parties, plus 1 at feeders. Total party-hours 25.75 (1.25 on foot, 24.5 by car), plus 3 hours at feeders. Total party-miles 293.5 (1.5 on foot, 292 by car). Total 43 species; 8,439 individuals.

Fred Brooks, Gwen Brooks, Lois Bryson, Joyce Davis, Edna Donaghey, Leonard Donaghey, Pat Dryden, Richard Dryden, Joleen Fromm (compiler-2402 5th Ave., Dodge City, KS 67801-2434), Marsha Gomez, Dick Kline, Donna Kline, Lorene Kulbiski, Darlene Mapel, Kay Rose, Doug Spain, Francis Spain, Shirley Vieux, Judi Young.

Doniphan County. 39°54'N 95°12'W. Center as described 1996. 8 January 2000; 7:30 a.m. to 4:00 p.m.; 38° to 51°F. Wind W 5-10 mph. Still water partly frozen, moving water open; a.m. clear, p.m. cloudy. Two observers in 1 party. Total party-hours 8.5 (1 on foot, 7.5 by car). Total party-miles 92 (1 on foot, 91 by car). Total 47 species, 3,380 individuals.

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

El Dorado Lake. 37°51'N 96°48'W. Center as described in 1992. 21 December 1999; 8:00 a.m. to 5:00 p.m.; 18° to 37°F. Wind N 10 mph. Still water open, moving water open; a.m. ?, p.m. cloudy. Six observers in 3 parties. Total party-hours 23 (7 on foot, 16 by car). Total party-miles 202 (8 on foot, 194 by car). Total 66 species; 4,628 individuals.

Marsha Ebaugh, Charley Green, Mike Heffron, Dan Kilby, William Langley (compiler-2425 Gentry Lane, El Dorado, KS 67042), Mike Lesan, Patty Marlett.

Emporia. 38°27'N 96°05'W. Center as describe 1985. 19 December 1999; 8:00 a.m. to 4:30 p.m.; 30°F to 38°F. Wind SSE 1-3 mph. Still water partly frozen, moving water partly frozen; a.m. cloudy, foggy, p.m. cloudy, foggy, light rain. Fifteen observers in 6 parties. Total party-hours 34 (12 on foot, 22 by car). Total party-miles 181.5 (12.5 on foot, 169 by car). Total 81 species; 35,466 individuals.

Ginny Agin, Bill Browning, Mildred Caldwell, Heather Christy, Kitty Douthit, Jerry Horak, Bill Jensen, Brandon Kuehn, Marvin Kuehn, Barbara MacGregor, Paul McKnab, Doug Robinson, Jean Schulenberg (compiler-Rte 2, Box 36, Admire, KS 66830), Marvin Schwillig, Jimmy Sells.

Garden City. 37°55'N 100°47'W. Center as described in 1984. 8 January 2000; 8 a.m. to 5:00 p.m.; 17°F to 52°F. Winds 5-10 mph. Still water open, moving water open; a.m. clear, p.m. clear. Eighteen observers in 8 parties, 13 at feeders. Total party-hours 37 (10 on foot, 27 by car), plus 14.5 hours at feeders. Total party-miles 180.5 (14.5 on foot, 166 by car). Total 72 species, 20,953 individuals.

Debra Bolton, Barbara Campbell, Raylene Dick, Lisa Edwards, Jeff Elliott, Cindy Elliott, Carol Geier, Ron Jameson, Ross Jameson, Dan LaShelle, Carol Meyer, Marie Osterbuhr (compiler-1103 Gillespie Place, Garden City, KS 67846-5946), Pamela Ramsey, Mike Ramsey, Leonard Rich, Betty Rich, Emmaline Scott, Tom Shane, Sara Shane, Tim Thompson.

Halstead-Newton. 38°04'N 97°28'W. Center as described in 1965. 18 December 1999; 7:00 a.m. to 5:15 p.m.; 26° to 35°F. Wind N at 0-5 mph. Snow less than 1 inch. Still water partly frozen, moving water open; a.m. cloudy, foggy, p.m. cloudy. Twenty-six observers in 7-9 parties. Total party-hours 62 (34.75 on foot, 27.25 by car), plus 0.25 hours owling. Total party-miles 259 (31.25 on foot, 227.5 by car). Total 67 species; 15,688 individuals.

Vanessa Bergman, Milly Cherryholmes, Marion Deckert, Pat Denno, Bob Dester, Gregg Friesen, Lorna Harder, Tyler Hicks, Alison Hiebert, Harvey Hiebert, Marilyn Johnson, Aileen McCune, Cheryl Miller, Norman Pankratz, Wes Pauls, Jon Piper, Dwight Platt (compiler-702 NE 24th St., Newton, KS 67114), Bob Regier, Shari Scheffler, Carolyn Schwab, Vel Teichroew, John Torline, Rod Wedel, James Wulf, Mason Wulf, Treye Wulf.

Hays. 38°51'N 99°27'W. Center as described in 1987. 18 December 1999; 5:00 a.m. to 7:00 p.m.; 24° to 37°F. Wind NW 0-15 mph. Still water partly frozen, moving water open; a.m. partly cloudy, foggy, p.m. partly cloudy. Eighteen observers in 2-6 parties, plus 2 at feeders, plus 1 hour owling. Total party-hours 40 (19.4 on foot, 20.6 by car), plus 10 hours at feeders. Total party-miles 337.5 (19 on foot, 318.5 by car), plus 18 miles owling. Total 56 species; 9,568 individuals.

Ernie Brown, Janeen Brown, Earl Carlson, Connie Chen, Donna Cooper, Greg Farley (compiler-Fort Hays State University, Department of Zoology, Hays, KS 67601), Ella Jones, Nichole Lambrecht, John Launchbaugh, Jason Luginbill, Mary Morgan, Robert Nicholson, Curtis Schmidt, Jim Schmidt, Bill Stark, Jim Strine, Jamie Timson, Brandon Tippy.

Jetmore. 38°03'N 99°53'W. New Count. Center at 0.50 mi. N, 0.25 mi. W of the corner of sections 29-32, T23S, R23W (about 4.2 mi. SSE of Jetmore). 7 January 2000; 7:45 a.m. to 5:15 p.m.; 18°F to 58°F. Wind WSW-SSW 0-22 mph. Snow 2 inches. Still water partly frozen, moving water partly frozen; a.m. clear, p.m. clear. Three observers in 2 parties. Total party-hours 17.5 (3.5 on foot, 14 by car), plus .25 hours owling. Total party-miles 239.5 (6.5 on foot, 233 by car), plus 0.75 miles owling. Total 44 species, 12,674 individuals.

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

John Redmond Reservoir. 38°16'N 95°49'W. Center as described in 1993. 18 December 1999; 8:00 a.m. to 5:00 p.m.; 21°F to 28°F. Wind SE 5-10 mph. Still water partly frozen, moving water open; a.m. cloudy, foggy, p.m. cloudy. Sixteen observers in 5 parties, plus 1 at feeders. Total party-hours 24 (6.5 on foot, 17.5 by car), plus 0.25 hours at feeders and 1.5 hours owling. Total party-miles 203.5 (7.5 on foot, 196 by car), plus 7 miles owling. Total 80 species; 53,536 individuals.

Jeremy Covey, Mark Covey, Bob Culbertson (compiler-207 Cheyenne St., New Strawn, KS 66839), Drew Hall, Helen Hall, Jerry Horak, David Houser, Edith Houser, Max Houser, Nicki Houser, Jim Minnerath, Marvin Schwillig, Gary Simmons, Mathew Simmons, Art Swalwell, Dan Williamson.

Junction City. 39°00'N 96°53'W. Center as described in 1992. 27 December 1999; 5:30 a.m. to 6:30 p.m.; 28°F to 41°F. Wind N-NW 3-29 mph. Still water partly frozen, moving water open; a.m. partly cloudy, p.m. partly cloudy. Nine observers in 5 parties. Total party-hours 43.9 (13.5 on foot, 30.4 by car), plus 2.25 hours owling. Total party-miles 370 (15.75 on foot, 354.25 by car), plus 32.5 miles owling. Total 78 species; 14,471 individuals.

Laurie Cooke, Stacey Cooke, Carol Hogheem, Hoogy Hogheem, Jeff Keating, Ceclia Markum, Chuck Otte (compiler-613 Tamerisk, Junction City, KS 66441), Chris Smith, Patricia Yaeger.

Kanopolis Reservoir. 38°37'N 97°57'W. Center as described in 1983. 9 January 2000; 7:45 a.m. to 5:30 p.m.; 33°F to 43°F. Wind N 0-15 mph. Snow 0-2 inches. Still water partly frozen, moving water open; a.m. cloudy, foggy, p.m. partly cloudy. Nine observers in 3 parties. Total party-hours 23 (7 on foot, 16 by car). Total party-miles 251 (11 on foot, 240 by car). Total 83 species; 13,044 individuals.

Doris Burnett, Dan Gish, Chod Hedinger, Carol Hogheem, Irwin Hogheem, Glen Koontz, Dan Larson, Richard Martin, Mike Rader (compiler-P. O. Box 395, Wilson, KS 67490).

Kirwin National Wildlife Refuge. 39°42'N 99°08'W. Center as described 1994. 1 January 2000; 6:00 a.m. to 5:00 p.m.; 20°F to 48°F. Wind SW 5 mph. Still water partly frozen, moving water open; a.m. partly cloudy, p.m. partly cloudy. Eighteen observers in 8 parties. Total party-hours 47.25 (9.5 on foot, 37.75 by car), plus 3 hours at feeders and 1.5 hours owling. Total party-miles 449.5 (13.5 on foot, 436 by car), plus 30 miles of owling. Total 72 species; 63,192 individuals.

Sherri Baker, Terri Baker, John Beim, Ardyus Blickenstaff, Erich Gilbert (compiler-RR1, Box 103, Kirwin, KS 67644), Trish Hayden, Joan Hazlett, Marty Hines, Dolores Knowles, Dan LaShelle, Larry Matson, Neona Matson, Brenda Piper, Deb Robinson, Shannon Rothchild, Dave Wangerin, Nancy Wangerin, Kathy Wyrill.

Lakin. 37°59'N 101°15'W. Center as described in 1994. 18 December 1999; 8:00 a.m. to 5:00 p.m.; 31°F to 42°F. Wind S 9 mph. Still water open, moving water open; a.m. partly cloudy, foggy, p.m. clear. Nine observers in 4 parties, plus 4 at feeders. Total party-hours 19 (2 on foot, 17 by car), plus 5 hours at feeders. Total party-miles 106.5 (2 on foot, 104.5 by car). Total 56 species; 39,093 individuals.

Dale Bolton, Debra Bolton, Barbara Campbell, Robert Campbell, Debbie Frederick, Art Nonhof, Marie Osterbuhr, Betty Rich, Leonard Rich (compiler-1107 E. Johnson St., Garden City, KS 67846-4649), Betty Schreiber, Fritz Schreiber, Tom Shane, Wendy White.

Lawrence. 39°00'N 95°18'W. Center as described in 1981. 18 December 1999; 7:00 a.m. to 5:30 p.m.; 23°F to 32°F; Wind SE 0-10 mph. Still water open, moving water open; a.m. foggy, light snow, p.m. cloudy. Thirty-seven observers in 12 parties, plus 11 at feeders. Total party-hours 102 (31.5 on foot, 70.5 by car), plus 11 hours at feeders, 7.5 hours owling. Total party-miles 535 (32 on foot, 503 by car), plus 46 miles owling. Total 104 species; 55,058 individuals.

Kelly Barth, Bill Berkowitz, David Berkowitz, Jack Berkowitz, Katherine Berkowitz, Roger Boyd, Jan Conrad, Mark Corder, Lisa Grossman, Dee Hansen, Erik Hansen, David Herrin, Kren Herrin, Tom Kreissler, Mick McHugh, Duane Otto, William Otto, Garry Parkinson, Galen Pittman (compiler-10242 258th St., Lawrence, KS 66044), Alexis Powell, David Reber, Stan Roth, Bob Rucker, Richard Rucker, David Seibel, Dawn Sharp, Cynthia Shaw, Ed Shaw, Eileen Ullrich, Margaret Wedge, Phil Wedge, Roy Wedge, Dave Williams, Pam Wilson, Becky Wisdom, Joyce Wolf, Ron Wolf.

Leavenworth/Atchison. 39°23'N 95°00'W. Center as described in 1992. 31 December 1999; 7:00 a.m. to 4:00 p.m.; 29°F to 55°F. Wind SW 10-15 mph. Still water partly frozen, moving water open; a.m. clear, p.m. clear. Five observers in 3 parties, plus 1 at feeders. Total party-hours 25.5 (4.5 on foot, 21 by car), plus 3 hour at feeders, 1 hour owling. Total party-miles 194.5 (5.5 on foot, 189 by car), plus 10 miles owling. Total 68 species; 20,527 individuals.

Chuck Allen, Michael Beck, Mick McHugh, Galen Pittman, John Schukman (compiler-14207 Robin Rd., Leavenworth, KS 66048), Joe Weigel.

Liberal/Seward County. 37°08'N 100°50'W. Center as described 1992. 2 January 2000; 8:00 a.m. to 5:00 p.m.; 38°F to 54°F. Wind W 5-10 mph. Still water open, moving water open; a.m. clear, p.m. clear. Four observers in 2 parties. Total party-hours 10 (1 on foot, 9 by car). Total party-miles 120 (5 on foot, 115 by car). Total 81 species; 70,308 individuals.

L. Edwards, Sebastian Patti (compiler-552 W. Belden Ave., Chicago, IL 60614), M. Rader, J. Woodard.

Linn County. 38°17'N 94°45'W. (Corrected Coordinates) Center as described in 1982. 29 December 1999; 6:00 a.m. to 5:30 p.m.; 31°F to 66°F. Wind SW 5-10 mph. Still water partly frozen, moving water open; a.m. clear, p.m. clear. Seventeen observers in 6 parties. Total party-hours 53 (7 on foot, 46 by car), plus 3 hours owling. Total party-miles 442 (5 on foot, 437 by car), plus 44 miles owling. Total 94 species; 69,556 individuals.

Bill Bayouth, Roger Boyd (compiler-Dept. of Biology, Baker University, Baldwin City KS 66006), Bill Busby, Calvin Cink, Bill Eubank, Matt Gearheart, Eileen Land, Mark Land, Nancy Leo, Charlie Letcher, Mary Mira, Aaron Mitchell, Galen Pittman, Barbara Pressgrove, Martin Pressgrove, Richard Rucker, Jo Seaman.

Manhattan. 39°11'N 96°34'W. Center as described 1993. 18 December 1999; 5 a.m. to 5:30 p.m.; 21°F to 28°F. Wind variable 0-10 mph. Still water partly frozen, moving water open; a.m. cloudy, p.m. cloudy. Seventy-five observers in 29 parties, plus 3 at feeders. Total party-hours 145 (78.25 on foot, 59.75 by car), plus 7 hours at feeders, 7 by canoe. Total party-miles 620 (73.5 on foot, 537 by car), plus 2 miles owling, plus 10 miles by canoe. Total 100 species; 69,171.

Ed Bagley, Carla Bishop, Bob Bowden, Daniel Bowden, David Bowden, Brent Brock, Bob Broyles, Doris Burnett, Phil Buser, Chuck Bussing, Diane Cable, Ted Cable, Jan Coles, Ton Damman, Walter Dodds, Michael Donnelly, Kevin Fay, Clyde

Ferguson, Lena Ferguson, Angel Folland, Nate Folland, Fred Freeman, Pat Freeman, Tate Gooden, Dolly Gudder, Christian Hagen, Leann Harrell, Chod Hedinger, Greg Hoch, Carol Hoogheem, Irwin Hoogheem, Cindy Jeffrey, Gary Jeffrey, Jay Jeffrey, Bill Jensen, Lowell Johnson, Duane Kerr, Leif Kerr, Duane Kitchen, Ron Klataske, Jim Koelliker, Wendy Loya, Barry Michie, Beth Montelone, Marge Muenzenberger, Mark Norris, Ed Olson, Kay Olson, Jack Oviatt, Peter Oviatt, Susan Oviatt, Gerry Reeck, Dave Rintoul (compiler-Biology Division, Kansas State University, Manhattan, KS 66506-4901), Judy Roe, Jethro Runco, Joyce Slusser, Chris Smith, Guy Smith, Gerry Snyder, Madonna Stallman, Margie Stewart, Dana Townsend, Daniel Townsend, Harvard Townsend, Gabe Weaver, Larry Weaver, Nate Weaver, Paul Weidhaas, Ellen Welti, Laura Welti, Ruth Welti, Luke Westerman, Frank White, Max White, Van Withee, Patricia Yeager, Tami Yeager.

Meade County. 37°15'N 100°20'W. Center as described in 1985. 8 January 2000; 7:15 a.m. to 5:30 p.m.; 28°F to 65°F. Wind S 5 mph. Still water partly frozen, moving water partly frozen; a.m. clear, p.m. clear. Two observers in 1 party, plus 4 at feeders. Total party-hours 7 (6 on foot, 1 by car), plus 6 hours at feeders and 2 hours owling. Total party-miles 63 (5 on foot, 63 by car), plus 26 miles owling. Total 58 species; 19,310 individuals.

Brad Allen, C. J. Allen, Audrey Flowers, Kristy Flowers, Robin Flowers, Steven Flowers, Thomas Flowers (compiler-P. O. Box 87, Meade KS 67864), Mark Goldsberry.

Olathe. 38°55'N 94°51'W. Center as described 1986. 18 December 1999; 7:00 a.m. to 4:00 p.m.; 30°F to 32°F. Wind calm. Still water open, moving water open; a.m. cloudy, p.m. cloudy. Four observers in 2 parties, plus 1 at feeders. Total party-hours 15.5 (5.5 on foot, 10 by car), plus 2 hours at feeders and 1.5 hours owling. Total party-miles 109 (7 on foot, 102 by car), plus 2 miles owling. Total 61 species; 4,841 individuals.

Dave Fischer, Greg Gagliano, Christopher Meseke-Wren, Don Weiss (compiler-12100 Cherry Ln, Olathe, KS 66061).

Old Garfield County. 38°07'N 100°27'W. Center as described in 1993. 29 December 1999; 8:00 a.m. to 5:00 p.m.; 23°F to 72°F. Wind SSW 10 mph. Still water partly frozen, moving water partly frozen; a.m. clear, p.m. clear. Ten observers in 3 parties. Total party-hours 9.5 (0.5 on foot, 9 by car). Total party-miles 134 (1 on foot, 133 by car). Total 34 species; 14,146 individuals.

Barbara Campbell (compiler-709 W. Maple, Garden City, KS 67846), Bob Campbell, Camille Green, Connery Green, Marie Osterbuhr, Joanne Perna, Betty Rich, Leonard Rich, Sara Shane, Tom Shane.

Olsburg. 39°25'N 96°39'W. Center as described 1992. 20 December 1999; 7:30 a.m. to 5:30 p.m.; 13°F to 23°F. Wind NW 0-10 mph. Snow one inch. Still water unknown, moving water unknown; a.m. clear, light snow, p.m. partly cloudy. Eight observers in 4 parties, plus 3 at feeders. Total party-hours 33.25 (13.50 on foot, 19.75 by car), plus 3 hours at feeders. Total party-miles 212.75 (6.75 on foot, 206 by car). Total 90 species; 13,715 individuals.

Doris Burnett, Jean Geddis, Doris Burnett, Carol Hoogheem, Irwin Hoogheem, Ruth Hooper, Cindy Jeffrey, Gary Jeffrey (compiler-15850 Galilee Road, Olsburg, KS 66520), Jay Jeffrey, Irvin Pressler, John Westley, Margaret Wooten.

Oskaloosa/Perry Lake. 39°12'N 95°24'W. Center as described in 1980. 19 December 1999; 6:30 a.m. to 5:00 p.m.; 33° to 38°F. Wind NE 10 mph. Snow 0.5 inch. Still water open, moving water open; a.m. cloudy, p.m. cloudy, rain, snow. Fifteen observers in 6 parties. Total party-hours 47.5 (11 on foot, 36.5 by car), plus 2 hours owling. Total party-miles 373 (16 on foot, 357 by car), plus 20 miles owling. Total 80 species; 20,728 individuals.

Richard Bean, Joanne Brier, Nathan Folland, Steven Fretwell, Glen Koontz, Angel Kwolek-Folland, Galen Pittman, Marie Plinsky, Bob Rucker, Richard Rucker (compiler-121 East 17th St, Lawrence, KS 66044-4233), Robert Rucker, John Schukman, Roseanne Smith, Terry Sullivan, Bunnie Watkins.

Parsons. 37°25'N 95°17'W. Center as described in 1996. 18 December 1999; 8:00

a.m. to 5:00 p.m.; 27°F to 35°F. Wind NNE 15 mph. Still water open, moving water open; a.m. cloudy, foggy, p.m. cloudy. Fourteen observers in 7 parties, plus 1 at feeders. Total party-hours 39.5 (9.25 on foot, 28.75 by car), plus 1.5 hours at feeders. Total party-miles 254 (6.5 on foot, 247.5 by car). Total 78 species; 23,908 individuals.

Mavis Brenner, Bill Brewer, Pamela Cress, Ron Curtis, Steve Ford, Larry Herbert, Cecil Janssen, Liz Mangile, Robert Mangile, Paul Milks (compiler-2624 Gabriel, Parsons, KS 67357), Ed Miller, Chuck Spellman, Rick Tucker, T. Wester.

Pomona Lake. 38°40'N 95°41'W. Center as described in 1993. 15 January 2000; 7:30 a.m. to 12:30 p.m.; 42°F to 50°F. Wind S 10 mph. Still water open, moving water open; a.m. clear, p.m. clear. Eleven observers in 5 parties, plus 1 at feeders. Total party-hours 23 (3 on foot, 20 by car), plus 4 hours at feeders. Total party-miles 215 (3 on foot, 212 by car). Total 62 species; 25,160 individuals.

Jeffrey Bender (compiler-Pomona State Park, 22900 S. Hwy 368, Vassar, KS 66543), Bob Culbertson, Carol Culbertson, Liana Fox, Lloyd Fox, Dan Gish, Tamara Goodson, Jerry Horak, Tonilee Rhoades, Carolyn Roller, Richard Roller, Marvin Schwilling.

Quivira National Wildlife Refuge. 38°09'N 98°29'W. Center as described 1972. 17 December 1999; 6:30 a.m. to 5:00 p.m.; 38°F. Wind S-SW 2-15 mph. Still water partly frozen, moving water open; a.m. cloudy, p.m. cloudy, light rain. Eleven observers in 3 parties. Total party-hours 25 (4.5 on foot, 20.5 by car), plus .25 hours owling. Total party-miles 274.5 (3.5 on foot, 271 by car), plus 5 miles owling. Total 80 species; 237,398 individuals.

Wallace Champeny, Gary Crook, Suzanne Fellows, Rick Goodrick, Bob Gress, Dan Kilby, Michael Lesan, Joyce Lent, Gary Meggers (compiler-RR3, Box 48A, Stafford, KS 67578), Mike Rader, Donald Vannoy, Marcelee Webb.

Red Hills. 37°13'N 98°42'W. Center as described in 1994. 2 January 2000; 5:30 a.m. to 5:00 p.m.; 46°F to 57°F. Wind N 10 mph. Still water open, moving water open; a.m. clear, p.m. clear. Twenty-five observers in 4 parties. Total party-hours 34.5 (15.5 on foot, 19 by car), plus 2 hours owling. Total party-miles 199 (11 on foot, 188 by car), plus 15 miles owling. Total 87 species; 8,807 individuals.

Dennis Angle, Debarah Arnett, Wallace Champeny, Carol Cumberland, Marsha Ebaugh, Gregg Friesen, Chet Gresham, Becky Hofkamp, Pete Janzen (compiler-3137 Mascot, Wichita, KS 67204), Gloria Jones-Wolf, Dan Kilby, Mike Lesan, Jim Mayhew, Carol Mammolitti, Jim Nickel, Alexis Powell, Megan Powell, Jane Queal, Stan Roth, Cam Rother, Eddie Stegall, Savilla Stegall, Don Vannoy, Dave Williams, Tracy Wohl.

St. Francis. 39°43'N 101°52'W. Center as described in 1988. 11 January 2000; 7:45 a.m. to 6:00 p.m.; 12°F to 58°F. Wind S-SW 0-25 mph. Still water partly frozen, moving water partly open; a.m. clear, p.m. partly cloudy. One observer in 1 party. Total party-hours 10 (4.0 on foot, 6.0 by car), plus 0.75 hours owling. Total party-miles 139.5 (6.5 on foot, 133 by car), plus 9 miles owling. Total 40 species; 7,366 individuals.

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

Salina. 38°50'N 97°37'W. 18 December 1999; 7:30 a.m. to 5:15 p.m.; 23°F to 30°F. Wind NW 5 mph. Still water partly frozen, moving water open; a.m. cloudy, p.m. cloudy. Fifteen observers in 4 parties, plus 2 at feeders. Total party-hours 33.5 (9.5 on foot, 24 by car), plus 2.5 hours at feeders. Total party-miles 347.75 (7.75 on foot, 340 by car). Total 59 species; 9,031 individuals.

Jean Burch, Kate Burger, David Haight, Kevin Haight, Neva Heikes, Mindy Killion, Harold Lear (compiler-612 Max Ave., Salina, KS 67401), Charles Marsh, Ivy Marsh, Kathy McCullough, Steve Miller, Tricia Relemy, Monica Schneider, Marge Streckfus, Judy Zanardi.

Sandhills/Finney Co. 37°50'N 101°03'W. Center as described in 1999. 10 January 2000; 7:40 a.m. to 6:00 p.m.; 20°F to 62°F. Wind WNW-NNW 5 to 30 mph. Still water partly frozen; a.m. partly cloudy, p.m. clear. Four observers in 2 parties. Total party-hours 9 (2.75 on foot, 6.25 by car), plus 0.5 hours owling. Total party-miles 145.5 (3.5 on foot, 142 by car), plus 10 miles owling. Total 30 species; 857 individuals.

Dan LaShelle (compiler-238 SW Gage Blvd., Apt. 1208, Topeka, KS 66606-2059), Mike Ramsey, Curran Salter, Tom Shane.

Sawyer. 37°32'N 98°41'W. Center as described in 1979. 12 January 2000; 8 a.m. to 5:00 p.m. 40°F to 52°F. Wind N 10 mph. Still water open, moving water open; a.m. partly cloudy, p.m. partly cloudy. Six observers in 3 parties. Total party-hours 17 (11 on foot, 6 by car). Total party-miles 96 (4 on foot, 92 by car). Total 58 species; 6,290 individuals.

Ken Brunson (compiler-40050 NE 10 St., Pratt, KS 67124), Chris Hase, Bill Hlavachick, Kristen Mitchell, Jane Queal, Lee Queal.

Scott Lake. 38°35'N 100°56'W. Center as described in 1987. 2 January 2000; 7:20 a.m. to 4:00 p.m.; 21°F to 63°F. Wind NW 2-8 mph. Still water open, moving water open; a.m. partly cloudy, p.m. partly cloudy. Nine observers in 4-2 parties, plus 1 at feeders. Total party-hours 17.5 (10 on foot, 7.5 by car), plus 2 hours at feeders. Total party-miles 118 (5 on foot, 113 by car). Total 69 species; 8,434 individuals.

Everett Norman, Marie Osterbuhr, Betty Rich, Leonard Rich, Diane Seltman, Scott Seltman, Steven Seltman, Sara Shane, Tom Shane (compiler-1706 Belmont, Garden City, KS 67846), Chris Smith.

Seneca. 39°47'N 96°05'W. Center as described in 1996. 29 December 1999; 7:30 a.m. to 5:00 p.m. 25°F to 60°F. Wind S-SW 0-20 mph. Still water frozen, moving water partly open; a.m. clear, p.m. clear. One observer in one party. Total party-hours 9.5 (4.5 on foot, 5 by car), plus 1 hour owling. Total party-miles 132 (7 on foot, 125 by car), plus 26 miles owling. Total 42 species, 1,150 individuals.

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

Slate Creek Wetlands/Oxford. 37°15'N 97°15'W. Center as described in 1995. 22 December 1999; 7:45 a.m. to 5:30 p.m.; 18°F to 38°F. Wind SSW 0-17 mph. Still water partly frozen, moving water open; a.m. partly cloudy, p.m. partly cloudy. Five observers in 2 parties. Total party-hours 19.25 (3 on foot, 16.25 by car), plus 2 hours owling. Total party-miles 190.5 (2.5 on foot, 188 by car), plus 40 miles owling. Total 94 species; 3,101,065 individuals.

Wallace Champeny, Dan Kilby, Michael Lesan, Max Thompson, Eugene 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 2000; 7:30 a.m. to 3:30 p.m.; 42°F to 66°F. Wind SSW 20 mph. Still water open, moving water open; a.m. clear, p.m. partly cloudy. Seventeen observers in 6 parties. Total party-hours 36.75 (3 on foot, 33.75 by car). Total party-miles 234 (3 on foot, 231 by car). Total 68 species; 11,841 individuals.

Claudia Ausemus, James Ausemus, Mavis Benner, Pamela Cress, Cindy Ford, Steve Ford (compiler-Biology Dept., Pittsburg State University, Pittsburg, KS 66702), Lawrence Herbert, Barry Jones, Bill Ketterman, Benjamin Lambert, Caitlin Lambert, Dorothy Lambert, Laurence Lambert, Elizabeth Mangile, Robert Mangile, Paul Milks.

Syracuse. 38°00'N 101°52'W. Center as described in 1994. 19 December 1999; 8:00 a.m. to 4:00 p.m. 33°F to 42°F. Wind NW 5-25 mph. Still water partly frozen, moving water open; a.m. clear, p.m. partly cloudy. Six observers in 3 parties. Total party-hours 18.5 (2.5 on foot, 16 by car). Total party-miles 167.5 (2.5 on foot, 165 by car). Total 54 species; 2,393 individuals.

Lisa Edwards, Arthur Nonhof (compiler-7560 Lindsay Dr., Holcomb, KS 67851-9783), Marie Osterbuhr, Betty Rich, Leonard Rich, Tom Shane.

Topeka. 39°02'N 95°40'W. Center as described in 1972. 18 December 1999; 7:00 a.m. to 5:00 p.m. 21° to 29°F. Wind S 5 mph. Still water open, moving water open; a.m. cloudy, p.m. cloudy. Twenty-six observers in 11 parties, plus 4 at feeders. Total party-hours 85 (38 hours on foot, 47 hours by car), plus 22 hours at feeders. Total party-miles 452.8 (40.8 on foot, 412 by car). Total 80 species; 32,920 individuals.

Cynthia Abbot, Greg Abbott, Judy Billings, Joanne Brier, Jimmy Fallon, Bob Foster, Dan Gish, Dean Grisell, Gary Haden (compiler-5225 SW 12th St., Topeka, KS 66604), Peg Howard, Jerry Hunt, Glen Koontz, Joanna LaCoursiere, Bob Lawson, Sarah Merrill, Susan Miller, Marilyn Morford, Jennifer Perry, Alan Pollom, Melody

Pollom, Joanne Ramberg, Pat Stein, Janeen Walters, Lil Willis, Paul Willis, Tracy Wohl.

Tribune. 38°27'N 101°45'W. Center as described 1993. No date given; 10:00 a.m. to 3:00 p.m.; 50° to 60°F. Wind S 3 mph. Still water open; a.m. clear, p.m. clear. Four hours at feeder. Total 17 species, 89 individuals.

Luvarne Keith (compiler-606 4th St., Tribune, KS 67879).

Udall/Winfield. 37°16'N 96°59'W. Center as described in 1972. 19 December 1999; 8:00 a.m. to 5:00 p.m.; 34°F to 37°F. Wind variable 5-10 mph. Still water open, moving water open; a.m. cloudy, drizzle, p.m. cloudy, freezing drizzle. Twelve observers in 5 parties, plus 1 at feeders. Total party-hours 40 (4.5 on foot, 35.5 by car), plus 2 hours at feeders, plus 2 hours owling. Total party-miles 379.25 (4.25 on foot, 375 by car), plus 58 miles owling. Total 95 species; 48,233 individuals.

Betty Anderson, Duane Anderson, Fritz Barnard, Terry Barnett, Wallace Champeny, Kevin Grownweg, Mike Lesan, Max Thompson (compiler-1729 E. 11th Ave., Winfield, KS 67156-4007), Donna Wilt, Lee Wilt, Bob Wimmer, Eugene Young.

Ulysses. 37°30'N 101°18'W. Center as described in 1994. 9 January 2000; 7:45 a.m. to 5:45 p.m.; 20°F to 56°F. Wind WNW-NW 0-20 mph. Still water partly frozen, moving water partly frozen; a.m. clear, p.m. clear. Three observers in 1 party. Total party-hours 9.25 (3.25 on foot, 6.00 by car), plus 0.5 hours owling. Total party-miles 81 (5 on foot, 76 by car), plus 13.5 miles owling. Total 42 species; 1,039 individuals.

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

Waconda Lake. 39°28'N 98°22'W. Center as described in 1992. 18 December 1999; 7:25 a.m. to 4:20 p.m.; 28°F to 30°F. Wind S-SE 5-15 mph. Still water open, moving water open; a.m. cloudy, foggy, p.m. cloudy, foggy. Four observers in 3-4 parties. Total party-hours 23 (9.5 on foot, 13.5 by car). Total party-miles 216 (11 on foot, 205 by car). Total 76 species; 39,180 individuals.

Henry Armknecht, Dan LaShelle, Mike Rader (compiler-Box 395 Wilson KS 67490), Scott Seltman.

Wakefield. 39°13'N 96°58'W. Center as described in 1993. 19 December 1999; 6:00 p.m. to 5:00 p.m.; 32°F to 36°F. Wind NW 0-20 mph. Still water partly frozen, moving water open; a.m. cloudy, light rain, light snow, p.m. light rain, light snow, cloudy. Five observers in 3 parties. Total party-hours 22.75 (2.5 on foot, 20.25 by car), plus 3.25 hours owling. Total party-miles 201 (4 on foot, 197 by car), plus 35 miles owling. Total 87 species; 17,385 individuals.

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

Webster. 39°25'N 99°24'W. Center as described in 1992. 26 December 1999; 7:30 a.m. to 4:15 p.m.; 29°F to 51°F. Wind NW 5-15 mph. Still water partly frozen, moving water open; a.m. clear, p.m. clear. Four observers in 2 parties. Total party-hours 13 (4 on foot, 9 by car). Total party-miles 141 (4 on foot, 137 by car). Total 70 species; 32,235 individuals.

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

Wichita. 37°41'N 97°21'W. Center as described in 1955. 18 December 1999; 7:30 a.m. to 5:00 p.m.; 25°F to 31°F. Wind N 10 mph. Still water open, moving water open; a.m. cloudy, p.m. partly cloudy. Twenty-three observers in 6-10 parties, plus 5 at feeders. Total party-hours 74 (32 on foot, 42 by car), plus 10 hours at feeders and 1 hour owling. Total party-miles 391 (31 on foot, 361 by car), plus 8 miles owling. Total 85 species; 94,535 individuals.

Walker Butin, Wallace Champeny, Duane Delong, Suzanne Fellows, Rick Goodrick, Harry Gregory, Sharon Gregory, Bob Gress, Chet Grisham, Kevin Groeneweg, Pete Janzen, (compiler-3137 Mascot, Wichita, KS 67204), Michael Lesan, Alan Maccarone, Patty Marlett, Jim Mason, Bert McLard, John Northrup, Jon Romaine, Eddie Stegall, Savilla Stegall, Sandra Tholen, Don Vannoy, Jim Welden.

Wilson Reservoir. 38°56'N 98°34'W. Center as described in 1994. 19 December 1999; a.m. 7:30 a.m. to 5:00 p.m.; 32°F to 41°F. Wind SE-N 5-25 mph. Still water

partly frozen, moving water open; a.m. cloudy, foggy, light rain, p.m. cloudy, foggy, light rain. Four observes in 3 parties. Total party-hours 18.75 (8.5 on foot, 10.25 by car). Total party-miles 209.5 (9.5 on foot, 200 by car).

Total 81 species; 8,130 individuals.

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

Yoder. 37°53'N 97°52'W. Center as described in 1992. 8 January 2000; 8:00 a.m. to 2:00 p.m.; 37°F to 47°F. Wind SW 8-18 mph. Snow trace. Still water partly frozen, moving water open; a.m. foggy, p.m. partly foggy. Fifteen observers in 6 parties. Total party-hours 21.5 (5 on foot, 16.5 by car). Total party-miles 226.25 (5.25 on foot, 221 by car). Total 58 species; 58,802 individuals.

Mary Clark (compiler-3002 E. 30th St, Hutchinson KS 67502), Kris Davis, Heidi Dyck, Linda Dyck, Jennifer Dyck, Rick Goodrick, Steve Kinser, Brian Miller, Jay Miller, Verna Miller, Sarah Parsons, Ann Regier, Jim Smith, Marcelee Webb, Joseph Yates.

Department of Biology, Southwestern College, Winfield, KS 67156

Species	Alma-Lake Wabunsee	Arkansas City	Baldwin	Black Wolf/ NW Ella	BonnerSpr/ Lansing	Camp Naish	Cedar Bluff	Cheyenne Bottoms	Cimarron Grasslands	Dodge City	Doniphan	El Dorado	Emporia	Garden City
Common Loon														1
Pied-billed Grebe	4	4	2		3		1	39					2	50
Horned Grebe								1						
Eared Grebe							4	1						
Western Grebe								4						
Am. White Pelican					1			86						
Double-crested Cormorant			63				2	4						
Great Blue Heron		2	2	2	1	1	1	78				4	3	9
Great Egret														
Black-crned Night-Heron								8						
White-faced Ibis								5						
Turkey Vulture														
Greater White-fr. Goose		106					5	1457		5			cw	
Snow Goose			504		8		175	119			1300		15604	30
Blue Goose			500		2		25				650			
Ross's Goose							50	1			2		cw	
Canada Goose	94	2109	1777	cw	9000	95	6600	3300		3	210	10	1262	1670
goose sp.								1071						
Trumpeter Swan	cw													
Tundra Swan														
Wood Duck		9	4		2							1		50
Gadwall	14	18	86	5	38			333				46	6	1
American Widgeon	cw	6	3	1			5	13				2	cw	272
American Black Duck														
Mallard	70	210	1421	48	764	84	15350	3152	13	157	24	257	4189	1661
Blue-winged Teal								32				1		
Northern Shoveler		3	9		1			357					95	40
Northern Pintail	cw	cw	3		4		3	2320					4	10
Green-winged Teal	2	cw	cw	8			5	663				2	11	30
Canvasback	2				2			15					46	60
Redhead	1	cw	1		2		4	2				30	9	1
Ring-necked Duck	12	1	18		35			47					15	6
Greater Scaup			10											
Lesser Scaup		2	79		17							4	60	4
Oldsquaw			1		1								1	
Bufflehead			59		14		30	7				12	2	
Common Goldeneye	10	1	77	1	83		240	82	1		8	20	103	3
Barrow's Goldeneye								1						
Hooded Merganser	2	2	12		32		225	104				63		3
Common Merganser	52		17		150		4	5			50	2	2	
Red-breasted Merganser							1							
Ruddy Duck	1		1		1			21						17
duck sp.														
Bald Eagle	1	22	3	1	18		28	4			5	6	3	1
Northern Harrier	1	38	56	22	3		45	48	18	22	1	33	31	23
Sharp-shinned Hawk		5	7	1	1		1	1	5	cw		1		
Cooper's Hawk	cw	3	2	1			1	2	1					
Northern Goshawk														
Accipiter sp.														
Red-shouldered Hawk														
Red-tailed Hawk	14	132	99	64	89	3	75	19	26	27	11	67	60	73
Harlan's Hawk		3	4	1	2									1
Ferruginous Hawk							1		17	3		2		6
Rough-legged Hawk	2	1		1			3	2		2		5	5	23
Buteo sp.								5						6
Golden Eagle	cw								1					
American Kestrel	4	19	26	27	25	1	19	1	14	6	11	10	15	12
Merlin								3	6					
Peregrine Falcon												1		
Prairie Falcon		1					3	1	4					3
Falco sp.														
Ring-necked Pheasant	cw			9			5	7	15	15		cw		311
Greater Prairie-Chicken				1								cw		
Lesser Prairie-Chicken									20					
Wild Turkey	9	32	89	50	7	14				12			58	9
Scaled Quail									38					20
Northern Bobwhite	14	19	20	8	3		8	cw	48	6		cw	19	121
Virginia Rail														
American Coot	cw	1	3		7		70	455				5		160
Sandhill Crane								9						1
Whooping Crane								1						
Killdeer	1	4			3			6				1		
Greater Yellowlegs								12				1		
Willet														
Semipalmated Sandpiper														
Least Sandpiper														
Dunlin														
Common Snipe			3					cw						
shorebird sp.								3						
Franklin's Gull								26						
Bonaparte's Gull	cw	cw												
Ring-billed Gull	1	68	9		212	13	250	317	cw		6	13	257	
California Gull														
Herring Gull	cw						3	10						
Thayer's Gull														
Glaucous Gull														
gull sp.														
Rock Dove	17	70	85	32	86	7	25		97	341	30	29	5030	530
Ringed Turtle-Dove										1				
Eurasian Collared-Dove									cw					
Mourning Dove	1	163	46	17	105	6			40	11	18	3	10	117
Inca Dove														
dove sp.		1												
Greater Roadrunner														
Barn Owl				1			16	cw		2	1			1
Eastern Screech Owl		13	3	3	2		4			3			1	
Great Horned Owl	3	35	4	1	3		2	7					1	14
Burrowing Owl														5
Barred Owl	cw	9	5		2	1						2	3	
Long-eared Owl	3						2		1				26	

Species	Alma-Lake Wabaunsee	Arkansas City	Baldwin	Black Wolf/ NW Ella.	BonnerrSpr/ Lansing	Camp Naiah	Cedar Bluff	Cheyenne Bottoms	Cimarron Grasslands	Dodge City	Donphan	El Dorado	Emporia	Garden City
Short-eared Owl		cw		6				2					3	
Belted Kingfisher	7	7	1		2			2						1
Red-headed Woodpecker		3	18		68	26					10	1	23	
Red-bellied Woodpecker	17	75	91	16	70	22	3	2			19	14	33	
Yellow-bellied Sapsucker	cw	1	1		4				1				2	
Downy Woodpecker	10	27	70	12	58	23	3	5	4	3	26	24	43	13
Hairy Woodpecker	5	2	8		11	1		2	2		2	3	2	
Northern Flicker		41	17	11	6		28	20	23		2	5		5
Yellow-shafted Flicker	37	37	47		41	18		5		14	10	16	58	10
Red-shafted Flicker	4	1						3		3			1	9
Pileated Woodpecker		2	2			1								
Eastern Phoebe		cw	cw											
Loggerhead Shrike	cw	2	3	1	1			2	9			1		
Northern Shrike	cw			1										1
Blue Jay	22	110	234	2	228	35	1		4	6	40	7	75	51
Black-billed Magpie				3			20	2	61	24				128
American Crow	114	339	662	62	214	29	7	24	10	110	22	158	2306	4
Chihuahuan Raven									1					
Horned Lark	1	80	196	65	4		25		475	601	3	6	40	94
Tree Swallow														
Black-capped Chickadee	24		171	55	190	51	22	100			25	76	89	
Carolina Chickadee		102												
Tufted Titmouse	8	62	91		104	29					14	12	27	
Red-breasted Nuthatch		1	8	7	1	4			9	5		2	2	12
White-breasted Nuthatch	7	18	33	16	44	18	4	50	3		18	9	11	11
Brown Creeper	1	7	11	4	7	8					1	6	3	
Rock Wren														
Carolina Wren	10	40	32	8	74	26					10	12	6	1
Bewick's Wren	1	cw							2				2	
House Wren									1					
Winter Wren	1	1	3	3	1	2		1			1	1	2	
Sedge Wren														
Marsh Wren	cw						1	3	4					
Golden-crowned Kinglet	2	13	11	10	13	14		2	1		11	5	6	1
Ruby-crowned Kinglet		4	1		3				1			1	1	
Eastern Bluebird	70	77	269	6	109	55	5		14		24	17	78	
Mountain Bluebird														
Townsend's Solitaire		1											2	
Hermit Thrush													cw	
American Robin	291	29	5612	2	356	128			325	86	192	47	60	217
Northern Mockingbird		12	15		13				3			4	2	
Sage Thrasher														
Brown Thrasher										1			1	1
Curve-billed Thrasher														
European Starling	2448	1000000	3100	275	7500	103	2000	28	108	4990	110	701	3165	1428
American Pipit														
Sprague's Pipit														
Cedar Waxwing	43	6	61		67	23			60	cw	50		14	48
Northern Parula														
Yellow-rump. Warb. Myrtle	3	18	10		17	7			1				4	2
Audubon's									1					
Pine Warbler														
Palm Warbler														
Spotted Towhee		13	4	1			1			4		cw		1
Eastern Towhee					1							1	2	
American Tree Sparrow	76	147	830	320	205	5	850	169	143	35	50	375	90	192
Field Sparrow	cw	21			3									
Lark Bunting									1					
Savannah Sparrow		cw	15		3									
Henslow's Sparrow														
LeConte's Sparrow														
Fox Sparrow		16	3		7				1				4	
Song Sparrow	12	56	37	24	69	12	30	13	20		9	32	16	15
Lincoln's Sparrow		2	2		2	2							2	
Swamp Sparrow	cw	2	14	1	5	2							2	
White-throated Sparrow		57	13		15	8				3			1	3
Harris' Sparrow	62	583	77	165	62		40	13	5		21	109	193	43
White-crowned Sparrow	cw	125	41		54				218	78	1	9	49	1005
Dark-eyed Junco		184	796	24	248	89	200	25	241			321		10
Slate-colored	86	281	554	115	442					58	80		160	196
Oregon	6	6		10	1					12	2		1	101
White-winged Junco														
Lapland Longspur	1	2	102	12			25		440	36			401	100
Smith's Longspur													32	
Chestnut-coll. Longspur							1		8					
longspur sp.														
sparrow sp.														
Northern Cardinal	18	200	298	32	320	27	15	3	2	4	34	105	114	2
Red-winged Blackbird	23	3745000	9871	750	1435	214	3100	1000000	547	364	300	397	331	9497
Eastern Meadowlark	cw	3	6		56						1	61	217	
Western Meadowlark		5	20	20			75		348	524	1			725
meadowlark sp.		399	393	104	215				57		20			
Yellow-headed Blackbird														
Rusty Blackbird	1	20000	94	1	5									25
Brewer's Blackbird		10000		525				1				11		1
Common Grackle		150000	5	2	50	3		4	3	401	2			120
Great-tailed Grackle		cw			50				19					254
Brown-headed Cowbird	125	75000	29	6	5				2				250	
blackbird sp.														
Purple Finch	2		128		17	1					1		18	
House Finch	22	122	73	26	83	5	1	150	190	12	2	66	7	124
Red Crossbill														
White-winged Crossbill									2					
Pine Siskin	cw	cw	4				2		50	1			2	18
American Goldfinch	22	76	310	16	78	18	5	15	93	3	48	49	46	51
House Sparrow	9	128	419	150	312	14	35		702	247	110	59	110	1517
Total Number	3926	5006658	30031	3182	23673	1248	29792	1014964	4548	8466	3380	4610	35466	20953
Total Species	59	82	89	60	83	44	65	72	67	41	46	65	81	72

Species	Halstead-Newton	Hays	Jetmore	Redmond Reservoir	Junction City	Kanopolis	Kirwin Reservoir	Lakin	Lawrence	L'evenworth Atchinson	Liberal Seward Co.	Linn County	Manhattan	Meade County
Common Loon				2	cw	2	8	1	cw			11	4	
Pied-billed Grebe	1			1		1			10				cw	
Horned Grebe									1					
Eared Grebe												4	1	
Western Grebe												1		
Am. White Pelican				20		16			8					
Double-crested Cormorant				363	81		200		15			11	7	1
Great Blue Heron	9	3	1	26	7	20	3	6	20		[1]	6	11	33
Great Egret														
Black-crned Night-Heron														
White-faced Ibis														
Turkey Vulture														
Greater White-fr. Goose							3						14	cw
Snow Goose	1			540		20	1	8172	660	10180	25	3320	378	150
Blue Goose				20			1	425	205	1200	6	200	84	292
Ross's Goose	663	43	28	650	795	60	23700	4514	1600	875	508	8740	4205	3966
Canada Goose														
goose sp.														
Trumpeter Swan														
Tundra Swan														
Wood Duck			2	22			3	2	2		6	6	26	
Gadwall				16	52	1	9	1	207		8	79	202	252
American Widgeon				17		10	10	316	13		3	95	2	175
American Black Duck														
Mallard	317	32	23	3247	397	128	26511	14138	2000	3902	8000	31000	15339	8018
Blue-winged Teal														
Northern Shoveler				212	cw			48	13		1000	6	60	7
Northern Pintail				5			3	1	6	1	110	513	31	4030
Green-winged Teal	7		10	14	4	4	231	16	72		275	1	217	cw
Canvasback				2		1		2		1	30		11	12
Redhead														
Ring-necked Duck		cw					3		1		5	757	146	
Greater Scaup														
Lesser Scaup	1			17		3			12		40	12	23	4
Oldsquaw														
Bufflehead				24			10		13		3	15	19	cw
Common Goldeneye	2			33	11	578	431		77	30	2	28	236	1
Barrow's Goldeneye														
Hooded Merganser				56	15	40	5		77	2	2	40	106	
Common Merganser				61	3215	16	33		171	65	1	1	576	
Red-breasted Merganser						1					25		cw	9
Ruddy Duck				5					3					
duck sp.				80										
Bald Eagle	15	21	20	12	158	24	23	1	39	21	3	7	75	
Northern Harrier	5	1		25	31	34	28	31	27	6	16	65	34	7
Sharp-shinned Hawk	1	4			4	3	1	2	8		1	1	10	cw
Cooper's Hawk	1		1		3	3	2		3	1		3	5	
Northern Goshawk														
Accipiter sp.	1					4								
Red-shouldered Hawk														
Red-tailed Hawk	89	35	34	55	80	137	67	38	155	40	17	153	189	7
Harlan's Hawk	3			1	5	6	2	3				2	16	
Ferruginous Hawk		1	4					8			3		1	cw
Rough-legged Hawk	2	1	8	2	3	19	7	13	3		3		6	cw
Buteo sp.	5	3			1			8					5	
Golden Eagle				2										
American Kestrel	20	18	13	3	13	30	28	33	39	18	6	41	42	4
Merlin	1				2	2		1	1	1	1		4	
Peregrine Falcon														
Prairie Falcon	5	1	8	2	cw	3	1	3			1		4	2
Falco sp.	2													
Ring-necked Pheasant	16	47	14		8	54	29	5	1		20		5	
Greater Prairie-Chicken				25		20							5	
Lesser Prairie-Chicken														
Wild Turkey	163	3		27	156		117		14	24			304	34
Scaled Quail														
Northern Bobwhite	45	48	19	3	32	3	15	15	39		30	34	134	8
Virginia Rail								8			2			3
American Coot				24	4		190	4	6		3	25	cw	2
Sandhill Crane							75	326						1374
Whooping Crane														
Killdeer	1			13					4		6	1	14	
Greater Yellowlegs														
Willet														
Semipalmated Sandpiper									4					
Least Sandpiper												1		
Dunlin												2	1	1
Common Snipe		1		7	1				1	1				
shorebird sp.														
Franklin's Gull														
Bonaparte's Gull														
Ring-billed Gull	15			928	125	2316	122	3	5900	20		20	1183	
California Gull									1					
Herring Gull				11	3	66	2		75				1	
Thayer's Gull						1								
Glaucous Gull								2	2					
gull sp.														
Rock Dove	29	157	27	1	42	54	231	83	625	74	40	32	469	cw
Ringed Turtle-Dove														
Eurasian Collared-Dove	cw													
Mourning Dove	44	4		16	15	23	106	37	104	13	30	87	243	
Inca Dove														
dove sp.														
Greater Roadrunner														
Barn Owl									1	16	3	1	2	7
Eastern Screech Owl	2	cw		3	3	6	2	2						1
Great Horned Owl	7	12		5	2	4	3	13	6	15	3	1	4	26
Burrowing Owl														
Barred Owl					2	9				10	2		7	12
Long-eared Owl					3									1

Species	Halstead-Newton	Hays	Jetmore	Redmond Reservoir	Junction City	Kanopolis	Kirwin Reservoir	Lakin	Lawrence	L'evenworth Atchinson	Liberal Seward Co.	Linn County	Manhattan	Meade County
Short-eared Owl		cw			cw		6						3	
Belted Kingfisher	6	4			4	5	4		5	4			5	22
Red-headed Woodpecker				2			1		39	7			277	6
Red-bellied Woodpecker	63	7	3	29	40	44	28		161	50	3	110	276	4
Yellow-bellied Sapsucker	1	2		2	3				6	1	1	4	14	
Downy Woodpecker	70	18	1	24	18	34	32	3	172	27	4	54	151	2
Hairy Woodpecker	10	6	1	1	8	7	2		20	4	3	13	32	
Northern Flicker	49	10			22	47	3		60	3	5	16	180	4
Yellow-shafted Flicker	69	20	8	30	53	8	13	3	94	35		46	122	1
Red-shafted Flicker	4	4	4		3	5	4	27	1		1	7	8	3
Pileated Woodpecker									1		1			
Eastern Phoebe									6	2	2	10		
Loggerhead Shrike		2				1								
Northern Shrike						3	1	1					cw	
Blue Jay	92	6		82	22	16	7	24	411	116	4	344	311	
Black-billed Magpie		77			cw		91	69			8			7
American Crow	403	152	21	22727	228	131	44	15	495	92	6	357	4901	16
Chihuahuan Raven														
Horned Lark	317	913	2169		5	194	177	491	45	6	6	120	130	5
Tree Swallow													1	
Black-capped Chickadee	220	50		52	136	99	59	1	329	98		153	479	1
Carolina Chickadee														
Tufted Titmouse	28			32	25	2			163	61		185	231	
Red-breasted Nuthatch	20	12		1	18	7			39	4	5	1	48	1
White-breasted Nuthatch	13	15		20	15	10	26		58	39	2	46	118	7
Brown Creeper	4	2			6	13	2		22	9	3	5	14	
Rock Wren														
Carolina Wren	23			5	12	13	1		58	27		77	74	1
Bewick's Wren					2	1					3		6	
House Wren		4												
Winter Wren	2	1		2	1	6			5			1	3	1
Sedge Wren														
Marsh Wren		5			cw						10			
Golden-crowned Kinglet	21	19		1	32	17	3		30	21		7	48	2
Ruby-crowned Kinglet	2				1	2			2	1	3	1	cw	
Eastern Bluebird	45	5		15	85	107	11		286	37	25	222	390	29
Mountain Bluebird			20		1						1			3
Townsend's Solitaire														2
Hermit Thrush									2			1	3	
American Robin	962	30	11	48	3220	63	231	60	5800	596	1	616	11291	47
Northern Mockingbird	3		1	cw	3				9	1		16	2	
Sage Thrasher														
Brown Thrasher	cw													
Curve-billed Thrasher														
European Starling	3450	4601	730	7132	1202	357	907	108	7050	508	50150	12195	13881	56
American Pipit											1			
Sprague's Pipit														
Cedar Waxwing	cw				169	6			493	7		56	200	39
Northern Parula														
Yellow-rump. Warb. Myrtle	5				16	1			16	1		32	29	
Audubon's														
Pine Warbler													1	
Palm Warbler														
Spotted Towhee	8	1		2	5	21			7				13	3
Eastern Towhee														
American Tree Sparrow	184	522	178	263	223	1034	1916	42	628	200	280	475	576	31
Field Sparrow	5			3	9	4	1		2	2	15	6		
Lark Bunting														
Savannah Sparrow	2			2	4				5			20	1	
Henslow's Sparrow													1	
LeConte's Sparrow	1				1				8				1	
Fox Sparrow		1	1	2	2				7			6	1	
Song Sparrow	138	18	32	107	40	89	1	7	287	22	30	121	135	23
Lincoln's Sparrow				2	3				2	2	2	2	8	
Swamp Sparrow									97	2		25	6	
White-throated Sparrow	6				12	1	3		25	7		69	30	
Harris' Sparrow	970	84	6	149	142	659	30		194	13	14	41	697	10
White-crowned Sparrow	79	12	47	73	4	24	24	116	108	12	160	87	29	5
Dark-eyed Junco		245		198			83	193	419	330	525	309		256
Slate-colored	957	63	20	6	263	565	6	21	1003	120		316	2848	
Oregon	4	76	3		6	4	8	13	18	2		4	39	
White-winged Junco														
Lapland Longspur	856	130	2880		39	49	237	4			20	445		
Smith's Longspur														
Chestnut-coll. Longspur			1											
longspur sp.													4	127
sparrow sp.														
Northern Cardinal	233	12		88	108	152	32		452	101	2	179	560	8
Red-winged Blackbird	3167	723	5330	10246	2001	551	4400	8177	21500	1159	3000	6366	4703	167
Eastern Meadowlark				100					12	1		108	70	
Western Meadowlark		565	569			11	165	697	7	1	185		3	
meadowlark sp.	1020				183	392	678		425	96		156	394	49
Yellow-headed Blackbird							2							
Rusty Blackbird		46		1	57	1			151			80	56	
Brewer's Blackbird	60			550		4021							14	
Common Grackle	1					1	712	58	72	4	100	4	11	
Great-tailed Grackle				35						2	100			
Brown-headed Cowbird		145	335	4800	409	54	155	31	15		12		227	
blackbird sp.							324				5000			
Purple Finch				1	16				23	1		17	5	
House Finch	121	96	10	100	43	53	44	44	427	11	15	29	183	
Red Crossbill														
White-winged Crossbill									1					
Pine Siskin			5		6			4	14	3	1	1	112	cw
American Goldfinch	114	22	11	13	201	61	90	39	450	74	50	186	484	11
House Sparrow	408	407	50	28	58	350	406	559	530	120	210	83	430	22
Total Number	15688	9568	12674	53536	14470	13044	63192	39093	55058	20527	70308	69555	69171	19309
Total Species	67	56	44	79	79	83	71	56	104	68	81	94	100	58

Species	Olathe	Old Garfield Co.	Olsburg	Oskaloosa Ferry Lake	Parsons	Pomona Lake	Quivira NWR	Red Hills	Salina	St. Francis	Sandlands, Finney Co.	Sawyer	Scott Lake	Seneca
Common Loon				1	6				4	1			1	
Pied-billed Grebe	5													
Horned Grebe			2											
Eared Grebe														
Western Grebe														
Am. White Pelican							1							
Double-crested Cormorant					4			1						
Great Blue Heron	3	1		8	11	3	24	2	3	2		7	5	
Great Egret														
Black-crowned Night-Heron														
White-faced Ibis							1							
Turkey Vulture		1												
Greater White-fr. Goose			1		87		31000					cw		
Snow Goose	1		5	313	90	1	6500	3				cw		
Blue Goose			1	151			20							
Ross's Goose							1							
Canada Goose	1395	30	2490	950	434	281	33495	33	112			635	217	
goose sp.														
Trumpeter Swan			5											
Tundra Swan							1							
Wood Duck				10	9			3						
Gadwall	13		9	93	230		4	20	6					
American Widgeon			6	160	5		3	3						4
American Black Duck														
Mallard	148	25	1489	5300	15399	146	16030	135	251	2900		29	289	175
Blue-winged Teal							1							
Northern Shoveler	25				98		105							1
Northern Pintail			28	17	1		125	23						
Green-winged Teal			17	9			451					5		1
Canvasback	2						1							
Redhead	3		4	1	2			1						1
Ring-necked Duck			2	2	54	20		19						
Greater Scaup			3											
Lesser Scaup	4		8	2500	321		4	30						
Oldsquaw	1													
Bufflehead	9		2	1	11		1							
Common Goldeneye	22		27	230	15	15		1						
Barrow's Goldeneye														
Hooded Merganser			56	16	9	7	10							
Common Merganser				320					1					
Red-breasted Merganser														
Ruddy Duck	4		4	1	14		4							
duck sp.			44						99	35				
Bald Eagle	1		56	12	6	5	70	2	1	1				1
Northern Harrier	1	38	41	15	23	28	82	34	20	4	19	12	6	4
Sharp-shinned Hawk			4	3	3			3	2		1	1	3	
Cooper's Hawk	2		1	cw		2	2	4	1				1	1
Northern Goshawk														
Accipiter sp.														
Red-shouldered Hawk														
Red-tailed Hawk	39	41	64	77	93	67	72	96	96	2	3	15	21	12
Harlan's Hawk		5	2	4	1	2		2	1			1		
Ferruginous Hawk		3					4			2	4		3	
Rough-legged Hawk		9	1	2		13	4	1	3		8	1	1	
Buteo sp.			6	1			1		7					
Golden Eagle								2			1			
American Kestrel	11	15	7	17	34	11	31	24	25	12	1	5	12	7
Merlin		1	1					1					1	
Peregrine Falcon														
Prairie Falcon		3					3	1		4				
Falco sp.														
Ring-necked Pheasant		48	1				23	1	192	3	3			8
Greater Prairie-Chicken			24						37					
Lesser Prairie-Chicken											19			
Wild Turkey			234	69				85	41	88	5	25		
Scaled Quail														
Northern Bobwhite			13	17	24	2	69	120	30		2			
Virginia Rail		2						5					2	
American Coot	40		51	131	16				1				3	
Sandhill Crane							5000	1016						
Whooping Crane														
Killdeer			cw	1	2			3					1	
Greater Yellowlegs														
Willet							1							
Semipalmated Sandpiper														
Least Sandpiper														
Dunlin														
Common Snipe shorebird sp.		45	1					9						
Franklin's Gull														
Bonaparte's Gull			6											
Ring-billed Gull	22		140	900	8	26	16		326					
California Gull														
Herring Gull				45		6								
Thayer's Gull														
Glaucous Gull														
gull sp.				4					1					
Rock Dove	16		55	23	77	1	1	2	513	3		4	99	23
Ringed Turtle-Dove														
Eurasian Collared-Dove													2	
Mourning Dove	26		24	97	61	1	2	180	73			67		32
Inca Dove														
dove sp.														
Greater Roadrunner														
Barn Owl		3							cw		2	1		
Eastern Screech Owl	2			7			2	2		2		2	4	2
Great Horned Owl	7	1	1	9			6	11	1	4	3	1	7	4
Burrowing Owl														
Barred Owl	2		1	5								2		1
Long-eared Owl													1	

Species	Olathe	Old Garfield Co.	Olsburg	Oskaloosa Perry Lake	Parsons	Pomona Lake	Quivira NWR	Red Hills	Salina	St. Francis	Sandlands, Finney Co.	Sawyer	Scott Lake	Seneca
Short-eared Owl														
Belted Kingfisher	3		1	2	2			3	3	1		5	1	
Red-headed Woodpecker	4		3	36	47									
Red-bellied Woodpecker	15	1	32	92	70	28	15	41	24	3		23	9	6
Yellow-bellied Sapsucker			5	4	1	1		6	2			2		
Downy Woodpecker	22	6	31	65	48	22	12	25	17	2		16	21	7
Hairy Woodpecker	3		9	9	2	2		10	7	2		2	6	4
Northern Flicker		7	57	15				38	56	17		11	3	
Yellow-shafted Flicker	17		27	70	54	46		25	8	3	1	4	7	3
Red-shafted Flicker		4	4	4	1			12	4	6	3	1	16	1
Pileated Woodpecker				1	3									
Eastern Phoebe								2				2		
Loggerhead Shrike			1		9	1	9						1	
Northern Shrike								1		1			1	
Blue Jay	48	2	49	256	184	48	1	7	21			1	9	9
Black-billed Magpie		3	1						5	13			4	
American Crow	117	11	5647	232	252	280		435	279	8	1	60		37
Chihuahuan Raven														
Horned Lark		2172	12	500	845		185	65	72	400	114	82	164	24
Tree Swallow														
Black-capped Chickadee	185		116	208		73	24		133	4		37	44	8
Carolina Chickadee					72			132				19		
Tufted Titmouse	19		15	75	38	26		12	6			25		6
Red-breasted Nuthatch	4		4	6	1			4	5	1	2		5	1
White-breasted Nuthatch	7		8	37	8	3		14	12	2		45	35	1
Brown Creeper	1			6	1	1		6	4			10	10	1
Rock Wren														
Carolina Wren	22		12	25	17	5		10	4			10		
Bewick's Wren			3					11						
House Wren								1						
Winter Wren			3	1				3						1
Sedge Wren								1						
Marsh Wren								2		3				3
Golden-crowned Kinglet			8	6	13	1	1	11	9			1	29	6
Ruby-crowned Kinglet				cw	1			22	1			4	4	
Eastern Bluebird	47		156	180	62	135	42	215	28	6		28	21	4
Mountain Bluebird							34	1066				13		
Townsend's Solitaire			1										1	
Hermit Thrush												3		
American Robin	175		38	950	215	1283	60	766	90	18	1	520	1264	100
Northern Mockingbird	3		4	10	19	6	2	1						
Sage Thrasher														
Brown Thrasher												1		
Curve-billed Thrasher													1	
European Starling	1742	34	134	2800	236	547	454	292	2264	330	2	204	347	321
American Pipit														
Sprague's Pipit														
Cedar Waxwing	8		7	130	47	32	6	76	7			1	66	20
Northern Parula														
Yellow-rump. Warb. Myrtle			30			1	3	141	2			21	4	1
Audubon's														
Pine Warbler			1											
Palm Warbler			1											
Spotted Towhee			6	2				8					12	
Eastern Towhee			4		1	1	3							
American Tree Sparrow	21	329	199	330	205	260	1104	359	280	53	30	105	132	126
Field Sparrow					5	32	1	19				2		
Lark Bunting														
Savannah Sparrow	9		4	1	33			7						
Henslow's Sparrow														
LeConte's Sparrow				1				1						
Fox Sparrow			1	13	2	1	1	5				1	7	
Song Sparrow	9	1	73	85	130	20	57	171	7	2	3	18	27	20
Lincoln's Sparrow		1	5	2	4	1								
Swamp Sparrow	8		2	4	1	1	8	8						2
White-throated Sparrow	1		8	7	37		4	13	2			4	2	
Harris' Sparrow	14	4	97	105	311	90	349	512	284		1	43	41	6
White-crowned Sparrow	16	100	6	28	302	10	16	21		4	103	4	66	
Dark-eyed Junco		45	612	670	395	191	139	157	102			188	131	
Slate-colored	370		152	152	190	1	6	473	172	25	24	17	114	17
Oregon			6	5					104	12	24		131	2
White-winged Junco														
Lapland Longspur		170	141		200		28		13	265	76		1131	1
Smith's Longspur														
Chestnut-coll. Longspur														
longspur sp.														
sparrow sp.									132					
Northern Cardinal	50		135	287	270	47	24	85	151			30	23	7
Red-winged Blackbird	20	10310	358	1050	1222	20571	125058	829	1889	3084	15	3630	1901	64
Eastern Meadowlark	13		4	1	625	127	4	4				84		
Western Meadowlark		507					1	13		25	163	169	189	51
meadowlark sp.			51	150			260	281	418					
Yellow-headed Blackbird														
Rusty Blackbird				100	3				48					
Brewer's Blackbird				cw	300		1	129	cw				2	
Common Grackle			2	5	2	70	2						9	
Great-tailed Grackle														
Brown-headed Cowbird	2		38	100	30	127	10	78	121	100				
blackbird sp.			20				16000							
Purple Finch	8		6	32	33	7								1
House Finch	25		18	85	25	51		97	61			14	85	7
Red Crossbill													1	
White-winged Crossbill														
Pine Siskin			16	cw		6		30	4		1		6	
American Goldfinch	9	5	461	64	164	142	99	207	81	5	23	14	42	5
House Sparrow	20	213	73	220	202	34	29	20	225	11	203	3	1618	12
Total Number	4841	14196	13702	20728	23908	25160	237398	8807	9030	7366	857	6290	8434	1150
Total Species	61	34	90	80	78	59	76	87	59	40	30	57	69	42

Species	Slate Creek	SE Kansas Mined Land	Syracuse	Topeka	Tribune	Udall Winfield	Ulysses	Waconda	Wakefield	Webster	Wichita	Wilson Reservoir	Yoder	Total
Common Loon									1			11		15
Pied-billed Grebe	1	22		10		7		3	1	4	22	3		234
Horned Grebe						1								5
Eared Grebe	1			5										8
Western Grebe										1				10
Am. White Pelican				2				1	1	1	cw			138
Double-crested Cormorant	1					6		25		51	83	4		921
Great Blue Heron	4	15	1	16		8		6	6	8	38	1	1	422
Great Egret														1
Black-crned Night-Heron												3		11
White-faced Ibis														6
Turkey Vulture														1
Greater White-fr. Goose						cw		60	200					32940
Snow Goose		20	100			21		1500		3				49753
Blue Goose		5						250						4038
Ross's Goose								1		5				84
Canada Goose	433	117		2033		630		3780	2524	2500	3578	895	21	134308
goose sp.	10													1081
Trumpeter Swan									1					6
Tundra Swan														1
Wood Duck	5			2		16					24			204
Gadwall	77	2		313		144	2	10	1	14	385	31		2728
American Widgeon			3				1	16		4	21		9	1184
American Black Duck														3
Mallard	1208	112		1542		1152	75	12500	460	26000	1768	421	27	228033
Blue-winged Teal											3			37
Northern Shoveler	25			47		1			11		73			2237
Northern Pintail	1			2		2		3	13		5	15		7279
Green-winged Teal	218			2		29		29	13	1	115	10		2472
Canvasback	2					2		2			54	5		252
Redhead	4			1		3		13			16	15		150
Ring-necked Duck	21			21		37		6	4		57			1289
Greater Scaup														13
Lesser Scaup	6					44		4	13		105	4		3321
Oldsquaw														4
Bufflehead				27		5		35		9	86	2		396
Common Goldeneye	10			83		164		496	15	175	158	2685		6094
Barrow's Goldeneye														1
Hooded Merganser				8		21		26	4		39	8		990
Common Merganser								9	1263	22		400		6434
Red-breasted Merganser														4
Ruddy Duck				20					22		5			157
duck sp.	15	45											139	457
Bald Eagle	2	1		2		1		13	46	57	1	3		737
Northern Harrier	64	27	22	4		70	10	21	20	49	1	27	36	1379
Sharp-shinned Hawk	1	2	1	3		6	1	1	1	1	5	1		103
Cooper's Hawk	1	1		4		1		1	4	2	2		2	69
Northern Goshawk								1		1				3
Accipiter sp.													1	6
Red-shouldered Hawk		1												3
Red-tailed Hawk	204	136	32	78		164	11	47	123	74	79	51	38	3500
Harlan's Hawk		2		2					3					74
Ferruginous Hawk	1		3				2	1	1					69
Rough-legged Hawk						2		1	2	1				161
Buteo sp.		1							6				3	58
Golden Eagle			1									2		11
American Kestrel	41	51	19	31		60	4	4	2	15	16	23	14	990
Merlin			4					1	1	1	1			34
Peregrine Falcon														1
Prairie Falcon	3		2			5	1	1	4	2		3	1	75
Falco sp.														2
Ring-necked Pheasant	31					2	9	335	8	2	13	10	16	1266
Greater Prairie-Chicken						cw						1		113
Lesser Prairie-Chicken														39
Wild Turkey	35		11	61	3	103	11	10	94	20	77		3	2097
Scaled Quail														58
Northern Bobwhite	19		1	17		118	18	8	17	24	6	13	29	1238
Virginia Rail														22
American Coot	9			51		8		6		9	204	36		1524
Sandhill Crane			1											7802
Whooping Crane														1
Killdeer	7			1		2		1			11		10	93
Greater Yellowlegs	2													15
Willet														1
Semipalmated Sandpiper											1			1
Least Sandpiper											17			21
Dunlin														1
Common Snipe	1											3	3	35
shorebird sp.														48
Franklin's Gull									103			230		400
Bonaparte's Gull												92	28	17141
Ring-billed Gull	1	168		383		11		336	50	91	2633			1
California Gull														1
Herring Gull								41		3	230	26		522
Thayer's Gull								1			1			3
Glaucous Gull														2
gull sp.				59										66
Rock Dove	11	9	40	279		53	58	8	46	40	650	17	41	10312
Ringed Turtle-Dove														1
Eurasian Collared-Dove														2
Mourning Dove	146	77	7	500	2	157		1	82	116	143	5	32	3090
Inca Dove	1													7
dove sp.					6									9
Greater Roadrunner														3
Barn Owl									3					31
Eastern Screech Owl	1					9		9	3	3	1	4		133
Great Horned Owl	9	1	3	3		4	3	11	12	1	4	4	1	288
Burrowing Owl														8
Barred Owl	4			2		21			7		1			110
Long-eared Owl	2													39

Species	Slate Creek	SE Kansas Mined Land	Syracuse	Topeka	Tribune	Udall Winfield	Ulysses	Waconda	Wakefield	Webster	Wichita	Wilson Reservoir	Yoder	Total
Short-eared Owl	17					cw	1							38
Belted Kingfisher	3	3		4		8		3	2	4	10	4	2	145
Red-headed Woodpecker		17	1	4		9								601
Red-bellied Woodpecker	27	50	1	65		54	2	13	33	20	26	13	11	1854
Yellow-bellied Sapsucker		1		5		1					cw			71
Downy Woodpecker	25	27	4	76		42	2	21	23	6	57	14	12	1534
Hairy Woodpecker	5	5	2	8		3	1	12	2	5	7	5	3	269
Northern Flicker	28	26	1	1		66		4	18	40	21	22		988
Yellow-shafted Flicker	20	44	4	49	1		12	5	13		66		30	1333
Red-shafted Flicker	1		21	4	1		5		9		3		1	189
Pileated Woodpecker	2	3		1		5								28
Eastern Phoebe	1								1			2		5
Loggerhead Shrike	2	7	1			4								80
Northern Shrike			2				1	1		1		1		17
Blue Jay	63	168	7	369	6	91		4	46		127	5	24	3795
Black-billed Magpie			71				11	19		47		8		677
American Crow	188	331	203	429		372	4	28	154	44	75000	19	137	117917
Chihuahuan Raven														1
Horned Lark	82		304			147	32	525	58	41	4	11	1159	13166
Tree Swallow														1
Black-capped Chickadee	1			213		21		28	48	47	154	48	52	3924
Carolina Chickadee	63	44				170								602
Tufted Titmouse	23	22		67		47			20		11		4	1490
Red-breasted Nuthatch	9	4	2	27	1	32	3		1	14	42	12		387
White-breasted Nuthatch	13	6	2	31		21	2	28	3	7	8	11	6	921
Brown Creeper	1	1		14	1	6		4	1		39	2		237
Rock Wren												1		1
Carolina Wren	35	15		22		28			10		26	3	3	757
Bewick's Wren	3					1								35
House Wren														6
Winter Wren				1		1			3	2	5	3		61
Sedge Wren														1
Marsh Wren	2		1				1			1	3	9		49
Golden-crowned Kinglet	4	6		11		46		1	17	14	31	13	2	523
Ruby-crowned Kinglet	1	3		6		10					8			83
Eastern Bluebird	25	85	13	161		82		8	40	40	3	1	34	3397
Mountain Bluebird			5									20		1163
Townsend's Solitaire														6
Hermit Thrush	1					1				1				13
American Robin	7	93	58	5301	6	161	15	1	1401	78	283	5	12	43222
Northern Mockingbird	7	26			1	13			3		5			184
Sage Thrasher														1
Brown Thrasher		1		1	2							1	2	11
Curve-billed Thrasher					1									1
European Starling	7277	2800	76	5052		3716	86	396	900	175	4203	653	1526	1164850
American Pipit														1
Sprague's Pipit						1								1
Cedar Waxwing	25	22	25	246	25	20	5		65		18		10	2203
Northern Parula						1								1
Yellow-rump. Warb. Myrtle	4	6	1	6		11			8		24	2	3	430
Audubon's														1
Pine Warbler														1
Palm Warbler														1
Spotted Towhee	17	2	1	cw		14	1	2	3	5	18	3	1	182
Eastern Towhee		2		2										4
American Tree Sparrow	195	24	45	104		825	15	1725	321	505	143	651	586	18711
Field Sparrow	4	36				18			1		2		6	197
Lark Bunting														1
Savannah Sparrow	19	229				18			12					384
Henslow's Sparrow														1
LeConte's Sparrow	3					1								18
Fox Sparrow	5	5		2		5			1	1	7	12	2	121
Song Sparrow	124	86	6	14		229	13	75	87	21	330	134	54	3191
Lincoln's Sparrow	5	1				5			7	2				62
Swamp Sparrow	84	11	1			52		1	6		8	8		361
White-throated Sparrow	12	115	2	71		10			33	1	60			635
Harris' Sparrow	449	187	2			2979	2	398	448	135	441	220	593	12093
White-crowned Sparrow	307	296	105	3	1	110	51	94	58	50	28	16	16	4171
Dark-eyed Junco	105	279	49	942		489		220	40	40	242	18	440	10011
Slate-colored	369		5		6	156	5	8	674	270	793	160		12299
Oregon	6		65	4	3	16	2	6	17	10	12	4		752
White-winged Junco			1											1
Lapland Longspur	1075	30	4	2		347	5	9457	5	45	8	28	600	19410
Smith's Longspur														32
Chestnut-coll. Longspur													1	11
longspur sp.														131
sparrow sp.		6												138
Northern Cardinal	184	274	2	250		266		41	132	26	207	51	94	5737
Red-winged Blackbird	3075000	2952	685	2538	3	27774	195	5194	4961	750	582	475	51109	8185338
Eastern Meadowlark	1	6				4		2	10			1		494
Western Meadowlark	1	1	116			1	179	46	28	285		5		5948
meadowlark sp.	1137	427		125		1589		265	58		183	135		9660
Yellow-headed Blackbird														2
Rusty Blackbird	5	9		100		15			2300			6		23099
Brewer's Blackbird	6					2975						50		18646
Common Grackle	10000	156		3		9		15	3		1		206	162036
Great-tailed Grackle	16										cw			476
Brown-headed Cowbird	1026	23				1417		10	48			1	58	84789
blackbird sp.		1870			6									23220
Purple Finch			2	4					4					327
House Finch	17	4	45	306	2	21	53	28	8	28	252	19	20	3330
Red Crossbill														1
White-winged Crossbill														3
Pine Siskin	2		13	12		cw			4					319
American Goldfinch	81	49	82	135	12	257	15	22	32	91	97	28	112	4970
House Sparrow	230	130	106	94		403	112	89	54	73	318	71	678	12714
Total Number	3101088	11841	2393	22499	89	48286	1099	38371	17385	32235	94575	8130	58802	10534693
Total Species	95	68	54	75	17	95	42	76	87	70	85	81	58	176