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THE WINTER BIRD COUNT FOR 1998

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This year's Christmas Bird Counts (CBC's) were preceded by some record breaking mild weather right up to the start of the CBC count period (19 December 1998 through 16 January 1999). However, the weather went down hill from there, bringing snow, ice, and cold temperatures throughout much of the state. Several counts cancelled their original scheduled count day due to extreme cold and conducted their census later in the count period. Thirty-two counts (58%) never reached temperatures above the freezing mark. Only 11 counts (20%) had to contend with snow or rain during count day. Despite the weather, the 55 CBC's conducted during 1998 breaks the record of 54 set in 1996. For the 90's, Kansas has averaged 47 CBC's per year. One new count was conducted this year, Sandhills/Finney County.

Counts covered most of the physiographic and geographical regions of the state (Figure 1). The Halstead/Newton Count was their 50th annual CBC. Next year will mark National Audubon Society's 100th year for CBC's throughout North America.

There were 725 participants (plus additional 59 feeder watchers) on CBC's this year shattering the 1988 record of 671 observers. The CBC's have averaged 613

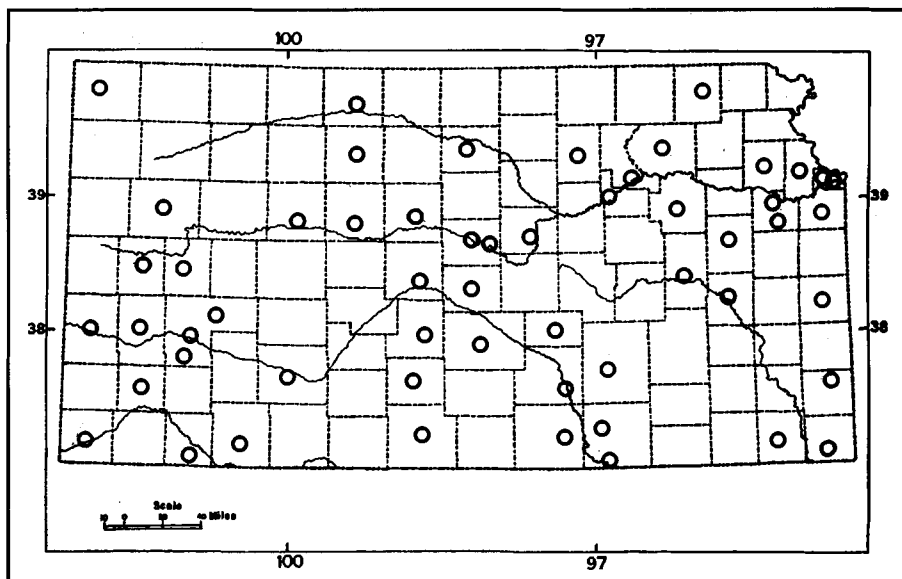


Figure 1. - Distribution of Kansas Christmas Bird Counts conducted between 19 December 1998 and 16 January 1999.

observers per year for the 90's.

Of the 6,561,698 total birds observed this year 92.4% were represented by seven species. Red-winged Blackbirds were the most abundant species with 3,618,636 (72% at Slate Creek Wetland with 2,604,610) followed by European Starlings with 1,150,096 (65.2% at Arkansas City with 750,000); Canada Goose with 416,140 (58.7% at Quivira with 250,000); Mallard with 288,456 (21.7% at Quivira with 62,642); American Robin with 275,368 (90.8% at Arkansas City with 250,000); Greater White-fronted Goose with 177,671 (98.5% at Quivira with 175,000); and Common Grackles with 124,908 (80.1% at Arkansas City with 100,000). The 275,368 American Robins may be the highest count ever recorded in Kansas. Slate Creek Wetlands had the most number of individuals with 2,752,491, but two additional counts recorded over one million birds, Arkansas City (1,219,164) and John Redmond (1,028,993). Tribune had the least number of individuals with only 196 recorded.

The 165 species recorded for 1998 breaks the previous record of 164 set in 1996. This includes two species new to Kansas CBC's, a Greater Black-backed Gull (Wichita) and Eurasian Collared-Dove (14 total, 13 at Scott Lake and one at Syracuse). It also includes the exotic Ring-turtle Dove (seven at Meade). The status of Ring-turtle Doves and Eurasian Collared-Dove is poorly known in Kansas. Identification is difficult between these species and site records without hearing vocalizations need to be examined carefully. A total of 19 counts (34.5%) had over 80 species recorded with Manhattan and Lawrence almost breaking the century mark each with 98 species. They were followed by Linn County and Quivira (92), Emporia (91), Junction City (90), and 13 counts with 80 or more species. Tribune had the fewest with only 15 recorded species.

Unusual species were common this year and several counts reported more than one. The Cimarron CBC reported a Chihuahuan Raven, 17 Audubon Warblers, Rufous-crowned Sparrow and seven Vesper Sparrows. The Lawrence CBC listed two Greater Yellowlegs, four Least Sandpipers, and a Greater Roadrunner. Quivira listed a Greater Yellowlegs, Whooping Crane, Tundra Swan, and Trumpeter Swan. Garden City had five Inca Doves and the only Golden-crowned Sparrow, and Wilson reported a House Wren and Gray Catbird. Other CBC's reporting birds of interest include: a Turkey Vulture at Baxter Springs; a Brant at Wichita; 58 Greater Scaup at Emporia, and one at Baldwin; an Osprey at Parsons; two Inca Doves at Meade; Greater Roadrunner at Sawyer; a Gray Catbird at Scott Lake; four Bohemian Waxwings (one at Junction City and three at Wakefield); a Vesper Sparrow at Kirwin; a LeConte's Sparrow at Manhattan; five Yellow-headed Blackbirds (four at Slate Creek and one at Salina); and a Lesser Goldfinch at Meade.

The extremely mild temperatures leading up to the CBC period provided habitat for large numbers of waterbirds to be recorded. There were 705 Pied-billed Grebes on 34 counts. Cheyenne Bottoms had 178 Pied-billed Grebes, Cedar Bluff 59, Linn County 54, Southeast Mine Lands 31, and Manhattan 30. The American White Pelican was present on six counts with a total of 94 observed (Waconda 63, Kirwin 15, Cheyenne Bottoms 9, Arkansas City 4, Webster 2, and Cedar Bluff 1). The 498 Great Blue Herons is second to the all-time high of 525 observed in 1995. The majority of waterfowl species showed major increases from last year with the exception of the Snow/Blue Goose (64,655 in 1998 and 152,427 in 1997), Canada Goose (426,140 in 1998 and 471,185 in 1987), and Common Merganser (12,392 in 1998 and 21,412 in 1997) which all showed decreases in numbers from the previous year. The Tundra Swan remained the same with seven individuals and the Oldsquaw was only observed during count week at Emporia. Virginia Rails were reported in the western half of the state with four at Scott Lake, two at Red Hills and Lakin, and one each at Old Garfield and Wilson. Manhattan reported a Virginia Rail during count week. The 11,188 Sandhill Cranes were down from last year's total of 25,002, but they were observed on four counts, 10,505 at Quivira, 677 at Red Hills, 9 at Sawyer, and 7 at Lakin. Overall gull numbers were down although Bonaparte's and Herring Gull's increased from 1997.

The Red-tailed Hawk (2,891 in 1998 and 3,152 in 1997), Rough-legged Hawk (180 in 1998 and 219 in 1997), Golden Eagle (11 in 1998 and 12 in 1997), and

Peregrine Falcon (1 in 1998 and 3 in 1997) decreased while all other diurnal raptors showed increases. Ring-necked Pheasant, Scaled Quail, and Northern Bobwhite decreased from last year while Greater Prairie Chicken's (875 in 1998 and 96 in 1997), Lesser Prairie Chicken's (24 in 1998, 3 at Cimarron and 21 at the Sandlands, and 4 in 1997), and Wild Turkey all increased in numbers.

Mourning Dove numbers decreased, after six consecutive years of increasing, with 2,456 individuals, still well above the 1,967 average from 1991-1998. Woodpecker numbers increased from the previous year with the exception of the Red-headed Woodpecker, Yellow-shafted Flicker and Ladder-backed Woodpecker, which decreased. The Pileated Woodpecker for the second year in a row had 29 individuals reported. The Black-capped Chickadee, Red-breasted Nuthatch, Ruby-crowned Kinglet, and Mountain Bluebird all showed decreases from the previous year, but the Carolina Chickadee, Tufted Titmouse, White-breasted Nuthatch, Golden-crowned Kinglet, and Eastern Bluebird all had increases. Townsend's Solitaire (42 in 1998 and 13 in 1997) and Hermit Thrush (29 in 1998 and 8 in 1997) had large increases in 1998. Loggerhead Shrike numbers increased by 15.3% from last year (83 in 1997) with 98 being recorded, but they're still well below the 152/year average for the 90's.

No general patterns were observed with sparrow numbers. Of the most abundant sparrows, the Tree Sparrow with 27,809 (24,927 avg. from 1991-1998) and Harris Sparrow with 13,521 (12,416 average from 1991-1998) decreased from the previous year. The Dark-eyed Junco unidentified with 15,960 (8,852 average from 1991-1998) and Slate-colored Junco with 15,090 (11,312 average from 1991-1998) increased from 1997.

Eastern Meadowlarks increased from 1,505 (1997) to 2,113 which is slightly below the average of 2,271 for 1991-1998. Meadowlark species also increased from 1997 (6,112) to 7,722 individuals (7,457 average for 1991-1998). However, Western Meadowlarks (4,942) decreased from 1997 (5,583). Western Meadowlarks have averaged 4,019 from 1991-1998. The 12,113 Brown-headed Cowbirds was well below last year's 53,298 individuals and below the average of 15,503/year recorded between 1991-1998. Rusty Blackbirds (50,682) and Brewer's Blackbirds (8,056) were also seen in good numbers.

Although there has been some concern that conjunctivitis may be affecting House Finch populations, the 3,612 individuals observed this year was only slightly below the 3,669 reported in 1997. The American Goldfinch (5,626) decreased while Pine Siskins (527) increased from 1997, although each is below their respective averages from 1991-1998: 6,640 and 1,244. The Rock Dove with 5,842 individuals and House Sparrow with 22,373 individuals were below their averages from 1991-1998 (7,022 and 22,831 avg.).

Following is a summary for high counts of individuals that were posted in 1997 and submitted to the National Audubon Society according to the American Birds 98th Christmas Bird Count issue: Quivira NWR with 96,300 Greater White-fronted Goose, 381,200 Canada Goose (both are the most ever recorded by a CBC reported to Audubon), and 25,002 Sandhill Cranes; Cimarron with 8 Prairie Falcons (tied with Hagerman Valley, ID) and 4 Lesser Prairie Chicken; Udall-Winfield with 2,178 Tree Sparrow and 3,938 Harris's Sparrow; Wilson Reservoir with 29 Long-eared Owl; and 2,939 Lapland Longspur at Baldwin.

All records in this CBC are subject to review by the Kansas Birds Record Committee.

Department of Biology, Southwestern College, Winfield, KS 67156.

Alma/Lake Wabaunsee. 38°56'N 96°17'W. Center as described in 1995. 25 December 1998; 7:15 a.m. to 4:30 p.m.; 18°F to 40°F. Wind 0-22 mph. Snow 0-1 inch. Still water partly open, moving water partly open; a.m. partly cloudy, p.m. partly cloudy. One observer in 1 party. Total party-hours 9.25 (4.5 on foot, 4.75 by car). Total party-miles 96.2 (7.0 on foot, 89.2 by car). Total 56 species; 3,295 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 1998; 8:00 a.m. to 6:15 p.m.; 22°F to 43°F. Wind N 0-5 mph. Dusting of snow. Still water partly frozen, moving water open; a.m. clear, p.m. partly cloudy. Fourteen observers in 6 parties. Total party-hours 47.5 (12 on foot, 35.5 by car), plus 2 hours owling. Total party-miles 329 (10 on foot, 319 by car), plus 48 miles owling. Total 88 species; 1,219,164 individuals.

James Barnes, Wallace Champeny, Norma and Jack Dennett, Dan Kilby, Michael Lesan, Patti Marlett, Steve Siebel, David Siebel, Shawn Silliman, Eddie and Stegall, Max Thompson, Gene Young (compiler-1707 N. 7th St., Arkansas City, KS 67005).

Baldwin. 38°47'N 95°16'W. Center as described in 1986. 2 January 1999; 6:00 a.m. to 5:30 p.m.; 10°F to 16°F. Wind N 25-30 mph. Snow 1-2 inches. Still water partly open, moving water partly open; a.m. partly cloudy, snow, p.m. cloudy, snow. Seventeen observers in 8 parties, plus 1 at feeders. Total party-hours 55 (10 on foot, 45 by car), plus 2 hours at feeders, 3.5 hours owling. Total party-miles 447 (14 on foot, 433 by car), plus 23 miles owling. Total 83 species; 29,513 individuals.

Elinore Baker, Richard Bean, Jan Boyd, Roger Boyd (compiler-P. O. Box 65, Baker University, Baldwin City, KS 66006), John Brockway, Bill Busby, Cal Cink, Stephen Fretwell, Chris Hase, Katharine Kelley, Kristen Mitchell, Barbara Pressgrove, Martin Pressgrove, Ruth Scott, Phil Wedge, Roy Wedge, Larry Williams.

Baxter Springs. 37°04'N 94°42'W. 10 January 1999; 7:30 a.m. to 5:00 p.m.; 27°F to 44°F. Wind W 10 mph. Still water frozen, running water partly frozen. Seven observers in 4 parties. Total party-hours 29.25 (4.15 on foot, 25 by car). Total party-miles 249.75 (4.25 on foot, 245.6 by car). Total 72 species; 30,820 individuals.

Lynn Armstrong, Mavis Benner, Tom Kreissler (compiler-1212 Louisiana, Apt. 1, Lawrence, KS 66044), Bob Mangile, Paul Milks, Jim Morgan, Abby Powell.

Black Wolf/NW Ellsworth Co. 38°45'N 98°22'W. Center as described in 1993. 9 January 1999; 7:30 a.m. to 5:30 p.m.; 5°F to 37°F. Wind S 5-20 mph. Still water frozen, moving water partly frozen; a.m. partly cloudy, p.m. clear. Four observes in 2 parties, plus 1 at feeders. Total party-hours 10.5 (2 on foot, 8.5 by car), plus 4 hours at feeders. Total party-miles 177 (2 on foot, 175 by car). Total 52 species; 21,255 individuals.

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

Bonner Springs. 39°11'N 94°54'W. Center as described in 1995. 3 January 1999; 6:30 a.m. to 5:30 p.m.; 0°F to 15°F. Wind NW 5-20 mph. Snow depth 2 inches. Still water partly open, moving water partly open; a.m. clear, p.m. clear. Eight observers in 4 parties. Total party-hours 34.0 (1.75 on foot, 32.25 by car), plus 0.75 owling. Total party-miles 338.75 (2.75 on foot, 336 by car), plus 2 miles owling. Total 77 species; 19,356 individuals.

Elaine Corder, Mark Corder, Chris Hobbs, Nancy Leo, Galen Pittman (compiler-12042 258th St., Lawrence, KS 66044), Eric Preston, John Schukman, Phil Wedge.

Camp Naish. 39°04'N 94°54'W. Center as described 1982. 23 December 1998; 7:15 a.m. to 5:15 p.m.; 15°F to 22°F. Wind N 4 mph. Snow 0.5 inches. Still water frozen, moving water partly frozen; a.m. cloudy, p.m. partly cloudy. Five 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 36 species; 758 individuals.

Kylee Moon, June Newman, Alexis Powell, Stan Roth (compiler-Lawrence Free State High School, 4700 Overland Drive, Lawrence, KS 66049-4130), Scott Sharp.

Canyonlands: SE Logan County. 38°45'N 100°55'W. Center as described in 1997. 29 December 1998; 8:00 a.m. to 4:00 p.m.; 20°F to 38°F. Wind N 5-10 mph. Still water frozen, moving water partly frozen; a.m. cloudy, p.m. partly cloudy. Eleven observers in 4 parties. Total party-hours 28.5 (28.5 by car). Total party-miles 32 (32 on foot). Total 26 species; 306 individuals.

Debra Bolton, Barbara Campbell, Lisa Edward, Greg Farley, Dan LaShelle, Art Nonhof, Karen Nonhof, Nathan Nonhof, Christopher Shane, Tom Shane (compiler-1706 Belmont, Garden City, KS 67846), Karen Tanner.

Cedar Bluff. 38°45'N 99°46'W. Center as described in 1985. 26 December

1998; 8:00 a.m. to 5:30 p.m.; 22°F to 50°F. Wind SW 0-25 mph, snow 0-3 inches. Still water partly frozen, moving water partly frozen; a.m. partly cloudy, p.m. partly cloudy. Four observers in 2 parties. Total party-hours 13.5 (5 on foot, 8.5 by car). Total party-miles 144.25 (3.25 on foot, 141 by car). Total 75 species; 32,678 individuals.

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

Cheyenne Bottoms Wildlife Refuge. 38°26'N 98°35'W to 38°31'N 98°44'W Center as described 1977. 22 December 1998; 8:30 a.m. to 12:30 p.m.; -5°F to 5°F. Wind N 5-10 mph. Still water partly frozen; a.m. partly cloudy. Eight observers in 4 parties, plus 2 at feeders. Total party-hours 15.1 (5.6 on foot, 98.5 by car), plus 0.5 owling. Total party-miles 118.1 (4.1 on foot, 114 by car). Total 58 species; 18,629 individuals.

Karl Grover, Helen Hands (compiler-Cheyenne Bottoms Wildlife Area, 56 NE 40th Rd., Great Bend, KS 67530), Larry Hesed, Jerry Ney, Rob Penner, Mike Perry, Gene Schneewis, Kim Schneewis.

Cimarron National Grasslands. 37°07'N 101°52'W. Center as described 1972. 1 January 1999; 8:00 a.m. to 5:30 p.m.; 29°F to 15°F. Wind N 10 mph. Snow 1 inch. Still water partly frozen, moving water partly frozen; a.m. clear, p.m. partly cloudy, light snow. Fifteen observers in 6 parties plus 1 at feeders. Total party-hours 53 (8 on foot, 45 by car), plus 1 hour at feeders. Total party-miles 562 (12 on foot, 550 by car). Total 70 species; 19,458 individuals.

J. Barnes, S. Barnes, J. Chynoweth, J. Davis, T. Giddins, T. Leukering, S. Patti (compiler-552 W. Belden, Chicago, IL 60614), L. Smith, La. Smith, R. Smith, J. Sterling, D. Svingen, M. Thompson, J. Tucker, D. Wallstrom.

Dodge City. 37°46'N 100°00'W. 19 December 1998; 7:50 a.m. to 5:00 p.m.; 15°F to 25°F. Wind NE 5 mph. Still water open, moving water open; a.m. cloudy, p.m. cloudy. Fourteen observers in 4 parties, plus 13 at feeders. Total party-hours 27.75 (2 on foot, 25.75 by car), plus 21 hours at feeders. Total party-miles 316.50 (1.50 on foot, 315 by car). Total 60 species; 6,683 individuals.

Noel Ary, Milton Bailey, Fred Brooks, Gwen Brooks, Suzy Busch, Alverna Cantrell, Joyce Davis, Pat Dryden, Richard Dryden, Lisa Edwards, Jack Fraley, Betty Friesen, Kenneth Friesen, Joleen Fromm (compiler-2402 5th Ave., Dodge City, KS 67801), Marsha Gomez, Margaret McGuggin, Ruth Roberts, Frank Rose, Shirley Rumsey, Al Schoen, Donis Schmitt, Ora Schraeder, Matt Smith, Doug Spain, Francis Spain, Shirley Vieus, Judy Young.

El Dorado Lake. 37°51'N 96°48'W. Center as described in 1992. 27 December 1998; 7:45 a.m. to 4:30 p.m.; 25°F to 52°F. Wind N (a.m.), S (p.m.) 5-10 mph. Still water partly frozen, moving water open; a.m. clear, p.m. partly cloudy. Eleven observers in 3 parties. Total party-hours 23.25 (.5 on foot, 22.75 by car). Total party-miles 210.50 (.5 on foot, 210 by car). Total 69 species; 16,395 individuals.

Emporia. 38°27'N 96°05'W. Center as describe 1985. 20 December 1998; 7:00 a.m. to 4:00 p.m.; 20°F to 27°F. Wind N-NE 10 mph. Still water open, moving water open; a.m. cloudy, light rain, p.m. cloudy, light rain. Fifteen observers in 7 parties. Total party-hours 46.25 (12.5 on foot, 33.75 by car). Total party-miles 339 (15 on foot, 324 by car). Total 91 species; 28,134 individuals.

Bill Browning, Patty Delmott, Laura Dodge, Kitty Douthit, Roger Ferguson, Sherry Ferguson, Jenny Halstead, Michael Heffron, Jerry Horak, Bill Jensen, Marvin Kuehn, Barbara MacGregor, Paul McKnab, Jean Schulenberg (compiler-Rte 2, Box 36, Admire, KS 66830), Marvin Schwilling, Jeff Witters.

Garden City. 37°55'N 100°47'W. Center as described in 1984. 3 January 1999; 8:00 a.m. to 6:45 p.m.; 3°F to 25°F. Wind NW to NNW 7-17 mph. Still water frozen, moving water partly frozen; a.m. clear, p.m. clear. Twenty-one observers in 10 parties, 15 at feeders. Total party hours 39.5 (4.75 on foot, 34 .75 by car), plus 27.5 hours at feeders and 0.5 hours owling. Total party-miles 394.75 (5.75 on foot, 389 by car), plus .25 miles owling. Total 76 species; 33,266 individuals.

Ben Baffa, Dan Baffa, Dave Beggs, Rita Beggs, Dale Bolton, Debra Bolton, Larry Bradstreet, Bob Campbell, Barbara Campbell, Jeff Elliott, Cindy Elliott, Laurel Harris, Ed Lewis, Nelda Lewis, Art Nonhof, Marie Osterbuhr (compiler-1103

Gillespie Place, Garden City, KS 67846-5946), Leonard Rich, Betty Rich, Emaline Scott, Tom Shane, Sara Shane, Gene Skinner, Karen Tanner, Wendy White.

Halstead-Newton. 38°04'N 97°28'W. Center as described in 1965. 19 December 1998; 7:15 a.m. to 5:30 p.m.; 30°F to 38°F. Wind N at 15-25 mph. Still water open, moving water open; a.m. cloudy, p.m. cloudy. Thirty-five observers in 9-10 parties. Total party-hours 78.25 (38.75 on foot, 39.5 by car). Total party-miles 385.25 (38.75 on foot, 346.5 by car). Total 80 species; 52,698 individuals.

Val Bontrager, Andy Brown, Milly Cherryholmes, Laura Cossey, Bob Dester, Russell Dick, Stan Epp, Gregg Friesen, Erven Graber, Ruth Graber, Tyler Hicks, Alison Hiebert, Harvey Hiebert, Deborah Hunsberger, Paul Jantzen, Pete Janzen, Aileen McCune, Cheryl Miller, Jim Nichel, Norman Pankratz, Wes Pauls, Jon Piper, Dwight Platt (compiler-702 NE 24th St., Newton, KS 67114), Kamala Platt, LaVonne Platt, Bob Regier, Chad Runco, Carolyn Schwab, Doug Storer, Jim Storer, Vel Teichroew, John Torline.

Hays. 38°51'N 99°27'W. Center as described in 1987. 19 December 1998; 8:00 a.m. to 5:30 p.m.; 21°F to 23°F. Wind N 10-20 mph. Still water open, moving water open; a.m. cloudy, p.m. cloudy. Twenty-eight observers in 2-8 parties, plus 3 at feeders. Total party-hours 27 (11 on foot, 16 by car), plus 4 hours at feeders. Total party-miles 276 (12 on foot, 264 by car). Total 73 species; 26,231 individuals.

Ernie Brown, Janeen Brown, Earl Carlson, Marilyn Carlson, Connie Chen, Marilyn Coffey, Donna Cooper, Michelle Courtney, Greg Farley (compiler-Fort Hays State University, Department of Zoology, Hays, KS 67601), Helen Hands, Gary Hyulett, Ella Jones, John Launchbaugh, Florence Macy, Sherry Miller, Mary Morgan, Deanne Newland, Scott Newland, Robert Nicholson, David Pennock, Hollie Porsi, Jeff Rife, Randy Rodgers, Laura Rupp, Phil Ryan, Jim Schmidt, Bill Stark, Jim Strine, Anita Walker, Robert Winn, Marion Youmans.

John Redmond Reservoir. 38°16'N 95°49'W. Center as described in 1993. 19 December 1998; 8:00 a.m. to 5:00 p.m.; 25°F to 32°F. Wind N 15 mph. Still water open, moving water open; a.m. cloudy, p.m. cloudy. Fifteen observers in 6 parties, plus 2 at feeders. Total party-hours 35 (10 on foot, 25 by car), plus 3 hours at feeders. Total party-miles 212 (10 on foot, 202 by car). Total 87 species; 1,028,993 individuals.

Roger Applegate, Bob Culbertson (compiler-207 Cheyenne St., New Strawn, KS 66839), Carol Culbertson, Mark Feltner, Helen Hall, Jerry Horak, Edith Houser, Max Houser, Jim McMurray, Katy McMurray, Jim Minnerath, Francis Ramirez, Marty Ramirez, Ken Reznicek, Gary Simmons, Chris Williamson, Dan Williamson.

Junction City. 39°00'N 96°53'W. Center as described in 1992. 29 December 1998; 5:45 a.m. to 6:00 p.m.; 15°F to 40°F. Wind N-NW 5-26 mph. Still water partly frozen, moving water partly frozen; a.m. clear, p.m. clear. Eighteen observers in 8 parties. Total party-hours (13 on foot, 47.5 by car), plus 1.75 hours owling and 2 hours at feeders. Total party-miles 563 (12 on foot, 551 by car), plus 35 miles owling. Total 90 species; 24,791 individuals.

Joanne Brier, Doris Burnett, Ted Cable, Stacey Cooke, Carol Hogheem, Irwin Hogheem, Johnnie Johnson, Jeff Keating, Duane Kerr, Sarah Merrill, Lloyd Moore, Chuck Otte (compiler-613 Tamerisk, Junction City KS 66441), Galen Pittman, Mike Rader, Amy Rintoul, Dave Rintoul, Scott Seltmar, Guy Smith.

Kanopolis Reservoir. 38°37'N 97°57'W. Center as described in 1983. 10 January 1999; 7:30 a.m. to 5:00 p.m.; 23°F to 41°F. Wind N to E 5-20 mph. Still water frozen, moving water partly frozen; a.m. cloudy, light snow, p.m. clear. Six observers in 3 parties. Total party-hours 24 (8 on foot, 16 by car). Total party-miles 290 (10 on foot, 280 by car). Total 75 species; 29,010 individuals.

Doris Burnett, Dan Gish, Chod Hedinger, Dan Larson, Chuck Otte, 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 1999; 7:30 a.m. to 5:00 p.m.; 5°F to 15°F. Wind N 5-10 mph. Still water partly frozen, moving water partly frozen; a.m. partly cloudy, light, freezing rain, p.m. light snow. Eighteen observers in 10 parties. Total party-hours 50.5 (9 on foot, 41.5 by car), plus 10 hours at feeders. Total party-miles 424.5 (6.5 on foot, 418 by car). Total 69 species; 81,302 individuals.

Sherri Baker, Terri Baker, John Brim, Bobbie Doctor, Phil Doctor, Erich Gilbert, Joan Hazlett, Marty Hines, Dolores Knowles, Dave Pantle, Deb Robinson, Shannon Rothchild, Bill Schaff (compiler-Kirwin National Wildlife Refuge, RR 1, Box 103, Kirwin, KS 67644), Chris Schaff, Floyd Truetken, Dave Wangerin, Nancy Wangerin, Kathy Wyrill.

Lakin. 37°59'N 101°15'W. Center as described in 1994. 19 December 1998; 7:00 a.m. to 5:00 p.m.; 16°F to 18°F. Wind N 13-20 mph. Still water partly frozen, moving water open; a.m. cloudy, snow flurries, p.m. cloudy, light snow. Thirteen observers in 5 parties, plus 4 at feeders. Total party-hours 20.75 (1.75 on foot, 21 by car), plus 4 hours at feeders. Total party-miles 118.5 (1.5 on foot, 117 by car). Total 60 species; 12,767 individuals.

Debra Bolton, Barbara Campbell, Robert Campbell, Bill Daugherty, Pat Daugherty, Debbie Frederick, Art Nonhof, Marie Osterbuhr, Betty Rich, Leonard Rich (compiler-1107 E. Johnson St., Garden City, KS 67846-4649), Laurie Ryland, Tom Shane, Gene Skinner, Wendy White.

Leavenworth/Atchison. 39°23'N 95°00'W. Center as described in 1992. 9 January 1999; 7:00 a.m. to 4:30 p.m.; 4°F to 15°F. Wind N 5 mph. Still water frozen, moving water partly open; a.m. clear, p.m. partly cloudy. Two observers in 1 party, plus 1 at feeders. Total party-hours 9.0 (0.5 on foot, 8.5 by car), plus 1 hour at feeders, 0.5 hours owling. Total party-miles 121.5 (0.5 on foot, 121 by car), plus 3 miles owling.

Total 54 species; 3,457 individuals.

Lawrence. 39°00'N 95°18'W. Center as described in 1981. 19 December 1998; 6:15 a.m. to 5:40 p.m.; 25°F to 35°F; Wind N 7-12 mph. Still water open, moving water open; a.m. clear, p.m. partly cloudy. Thirty-nine observers in 12 parties, plus 1 at feeders. Total party-hours 100.5 (41.5 on foot, 59.25 by car), plus 2.5 hours at feeders, 6.25 hours owling. Total party-miles 484.5 (28.5 on foot, 456 by car), plus 34 miles owling.

Genny Agin, Bill Berkowitz, David Berkowitz, Jack Berkowitz, Katherine Berkowitz, Roger Boyd, Mary Butterbrodt, Scott Campbell, Pam Chaffee, Calvin Cink, Jan Conrad, Mark Corder, Lin Fredericksen, Dee Hanse, Erik Hansen, David Herrin, Kay Kennedy, Tom Kreissler, Rachel Magarie, Aaron Mitchell, June Newman, Ryan Ness, Duane Otto, William Otto, Gerry Parkinson, Galen Pittman (compiler-10242 258th St., Lawrence, KS 66044), Alexis Powell, David Reber, Bob Rucker, Richard Rucker, Phil Scafe, David Seibel, Dawn Sharp, Cynthia Shaw, Ed Shaw, Margaret Wedge, Dave Williams, Joyce Wolf, Ron Wolf.

Liberal/Seward County. 37°08'N 100°50'W. Center as described 1992. 3 January 1999; 8:30 a.m. to 5:00 p.m.; 10°F to 20°F. Wind N 5 mph; snow 1 inch. Still water frozen, moving water partly frozen; a.m. clear, p.m. partly clear. Four observers in 2 parties, plus 1 at feeders. Total party-hours 9 (1.5 on foot, 7.5 by car), plus 1 hour at feeders. Total party-miles 70 (3 on foot, 67 by car). Total 60 species; 67,399 individuals.

Joyce Davis, R. Kinney, S. Nickerson, Sebastian Patti (compiler-552 W. Belden Ave., Chicago, IL 60614), Max Thompson.

Linn County. 39°17'N 94°45'W. Center as described in 1982. 26 December 1998; 5:45 a.m. to 5:30 p.m.; 17°F to 42°F. Wind SW at 5-10 mph. Still water partly frozen, moving water partly frozen; a.m. partly cloudy, p.m. partly cloudy. Twelve observers in 4 parties. Total party-hours 49 (7 on foot, 42 by car), plus 2 hours owling. Total party-miles 341 (8 on foot, 333 by car), plus 35 miles owling. Total 92 species; 22,321 individuals.

Jan Boy, Roger Boyd (compiler-Dept. of Biology, Baker University, Baldwin City KS 66-), Mark Corder, Stephen Fretwell, Matt Gearheart, Mark Land, Charlie Letcher, Aaron Mitchell, Galen Pittman, Alexis Powell, Barbara Pressgrove, Martin Pressgrove.

Manhattan. 39°11'N 96°34'W. Center as described 1993. 19 December 1998; 5 a.m. to 6:00 p.m.; 23°F to 28°F. Wind NE 10-20 mph. Still water frozen, moving water open; a.m. partly cloudy, p.m. cloudy. Eighty observers in 27 parties. Total party-hours 166.25 (98.05 on foot, 68.2 by car), plus 1.3 hours owling. Total party-miles 727.7 (95.1 on foot, 632.6 by car), plus 17.4 miles owling. Total 98 species;

28,451.

Stever Amy, Brent Brock, Doris Burnett, Chris Bye, Samantha Bye, Linda Cox, Breeta Culbertson, Jack Cully, Ton Damman, Jessie Dixon, Michael Donnelly, Gene Donova, Linda Drees, Sue Dwyer, Ben Enright, Clyde Ferguson, Marilena Ferguson, Angel Folland, Nate Folland, Fred Freeman, Pat Freeman, Tate Gooden, Ben Gray, Buddy Gray, Leann Harrell, Chod Hedinger, Gred Hoch, Carol Hoogheem, Irwin Hoogheem, Tom Hulbert, Jay Jeffrey, Melody Kemp, Duane Kerr, Leif Kerr, Bob Kingswood, Ron Klataske, Jim Koelliker, Amanda Kuhl., Sam Lacy, Bob Lynch, Pat Lynch, Ray Matlack, Jim Mayhew, Devon McBride, Jan McDowell, Barry Michie, Cole Minton, Beth Mongtelone, Bob Moore, Marge Muenzenberger, Ed Olson, Kay Olson, Jack Oviatt, Peter Oviatt, Susan Oviatt, Jim Phelan, Gary Radke, Gerry Reeck, Ryan Rehmeier, Dave Rintoul (compiler-Biology Division, Kansas State University, Manhattan, KS 66506-4901), Judy Roe, Joyce Slusser, Andy Smith, Chris Smith, Guy Smith, Gerry Snyder, Madonna Stallman, Dana Townsend, Daniel Townsend, Harvard Townsend, Diane Urban, Jim Urban, Kim Walcott, Tory Walker, Wade Walker, Paul Weidhaas, Gerald Wiens, Tim Willingham, Van Withee, Val Wright.

Meade County. 37°15'N 100°20'W. Center as described in 1985. 31 December 1998; 7:00 a.m. to 3:30 p.m.; 15°F to 25°F. Wind Calm. Still water frozen, moving water open; a.m. clear, p; p.m. clear. Two observers in 1 party, plus 1 at feeders. Total party-hours 6 (4 on foot, 2 by car), plus 8 hours at feeders. Total party-miles 46 (4 on foot, 46 by car), plus 23 miles owling. Total 50 species; 6,812 individuals.

Audrey Flowers, Robin Flowers, Steven Flowers, Thomas Flowers (compiler-P. O. Box 87, Meade KS 67864), Elizabeth Goldsberry, Mark Goldsberry.

Olathe. 38°55'N 94°51'W. Center as described 1986. 19 December 1998; 8:00 a.m. to 4:00 p.m.; 28°F to 31°F. Wind N 10-15 mph. Still water open, moving water open; a.m. cloudy, p.m. cloudy. Six observers in 3 parties. Total party-hours 33 (3 on foot, 31 by car). Total party-miles 262 (2 on foot, 259 by car). Total 53 species; 5,379 individuals.

Steve Crawford, George Creighton, Duane Ferrell, Don Weiss (compiler-12100 Cherry Ln, Olathe KS 66061), Lori Weiss, Brad Williamson.

Old Garfield County. 38°07'N 100°27'W. Center as described in 1993. 31 December 1998; 8:00 a.m. to 6:15 p.m.; 15°F to 40°F. Wind Calm. Still water frozen, moving water partly open; a.m. clear, p.m. clear. Ten observers in 4 parties. Total party-hours 14.5 (10.25 on foot, 4.25 by car). Total party-miles 197.25 (4.25 on foot, 193 by car). Total 43 species; 20,921 individuals.

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

Olsburg. 39°25'N 96°39'W. Center as described 1992. 21 December 1998; 7:15 a.m. to 5:15 p.m.; 9°F to 13°F. Wind N-NW 5-15 mph. Snow trace. Still water unknown, moving water unknown; a.m. cloudy, light snow, p.m. partly cloudy, light snow. Five observers in 2 parties, plus 5 at feeders. Total party-hours 18.25 (3.25 on foot, 15 by car), plus 8 hours at feeders. Total party-miles 154.5 (3.5 on foot, 151 by car). Total 62 species; 14,728 individuals.

Jean Geddis, Irwin Hoogheem, Ruth Hooper, Cindy Jeffrey, Gary Jeffrey (compiler-15850 Galilee Road, Olsburg, KS 66040), Irv Pressler, Chet Rosell, Mary Rosell, John Westley, Margaret Wooten.

Oskaloosa/Perry Lake. 39°12'N 95°24'W. Center as described in 1980. 20 December 1998; 6:20 a.m. to 5:00 p.m.; 19°F to 23°F. Wind NE 0-25 mph. Snow 1 inch. Still water open, moving water open; a.m. cloud, foggy, light snow, p.m. cloudy, foggy, snow. Eighteen observers in 9 parties. Total party-hours 69 (13 on foot, 56 by car), plus 2 hours and 16 miles owling. Total party-miles 476.5 (15 on foot, 461.5 by car). Total 80 species; 19,798 individuals.

Richard Bean, Joanne Brier, Nathan Folland, Charles Hall, Glen Koontz, Angel Kwolek-Folland, Dan Larson, Mick McHugh, Galen Pittman, Bob Rucker, Richard Rucker (compiler-121 East 17th St, Lawrence, KS 66044-4233, John Schukman, Roseanne Smith, Gerald Sneegas, Terry Sullivan, Bunnie Watkins, Tom Weathers, Tracy Wohl.

Parsons. 37°25'N 95°17'W. Center as described in 1996. 19 December 1998; 7:00 a.m. to 5:00 p.m.; 34°F to 36°F. Wind N 12 mph. Still water open, moving water open; a.m. cloudy, p.m. cloudy. Seventeen observers in 8 parties, plus 1 at feeders. Total party-hours 41 (7 on foot, 34 by car), plus 5 hours at feeders. Total party-miles 240 (4.5 on foot, 240 by car). Total 82 species; 14,428 individuals.

Mavis Brenner, Ray Brenner, Bill Brewer, Pamela Cress, Curtis Ford, Ron Ford, Steve Ford, Patricia Holland, W. Holland, Cecil Jansen, Cindy Jones, Liz Mangile, Robert Mangile, Paul Milks (compiler-2624 Gabriel, Parsons, KS 67357), E. Miller, Chuck Spellman, Rick Tucker, T. Webster.

Pomona Lake. 38°40'N 95°41'W. Center as described in 1993. 9 January 1999; 8:00 a.m. to 3:00 p.m.; 5°F to 20°F. Wind NW 5 mph; snow 1 inch. Still water frozen, moving water partly frozen; a.m. clear, p.m. clear. Five observers in 3 parties, plus 1 at feeders. Total party-hours 21 (3.5 on foot, 11.5 by car), plus 6 hours at feeders. Total party-miles 159.5 (4.5 on foot, 155 by car). Total 43 species; 4,635 individuals.

Jeffrey Bender (compiler-Pomona State Park, 22900 S. Hwy 368, Vassar KS 66543), Tamara Goodson, Jerry Horak, Tonilee Rhoades, Richard Roller, Ryan Smidt.

Quivira National Wildlife Refuge. 38°09'N 98°29'W. Center as described 1972. 18 December 1998; 6:30 a.m. to 5:00 p.m.; 40°F to 53°F. Wind N 5-20 mph. Still water open, moving water open; a.m. partly cloudy, p.m. partly cloudy. Twelve observers in 3 parties. Total party-hours 23 (3 on foot, 20 by car), plus .5 hours owling. Total party-miles 205 (3 on foot, 202 by car), plus 5 miles owling. Total 92 species; 524,809 individuals.

Wallace Champeny, Charles Cope, Micki Courtney, Rick Goodrick, Bob Gress, Dan Kilby, Jeff Kite, Michael Lesan, Gary Meggers (compiler-RR3, Box 48A, Stafford KS 67578), Mike Rader, Scott Seltman, Sandra Tholen, Donald Vannoy.

Red Hills. 37°13'N 98°42'W. Center as described in 1994. 9 January 1999; 8:00 a.m. to 5:00 p.m.; 7°F to 32°F. Wind S 12 mph. Still water frozen, moving water partly frozen; a.m. clear, p.m. clear. Fifteen observers in 4 parties. Total party-hours 30 (12 on foot, 18 by car), plus 1.5 hours owling. Total party-miles 229 (8 on foot, 221 by car), plus 10 miles owling. Total 80 species; 13,647 individuals.

James Barnes, Ken Brunson, Carol Cumberland, Marsha Ebaugh, Gregg Friesen, Lorna Harder, Pete Janzen (compiler-3137 Mascot, Wichita, KS 67204), Patty Marlett, Jane Queal, Dale Randall, Carolyn Schwab, Scott Seltman, Eddie Stegall, Savilla Stegall, Gloria Wulf.

St. Francis. 39°43'N 101°52'W. Center as described in 1988. 11 January 1999; 8:00 a.m. to 6:00 p.m.; 28°F to 68°F. Wind SW to WNW 0-20 mph. Still water partly frozen, moving water partly frozen; a.m. partly cloudy, p.m. partly cloudy. Two observers in 2 parties. Total party-hours 17.5 (9.5 on foot, 8.0 by car), plus 0.5 hours owling. Total party-miles 193 (10 on foot, 183 by car), plus 0.5 miles owling. Total 47 species; 4,048 individuals.

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

Salina. 38°50'N 97°37'W. 19 December 1998; 7:30 a.m. to 5:00 p.m.; 21°F to 23°F. Wind NW 8 mph. Still water open, moving water open; a.m. partly cloudy, p.m. cloudy. Seventeen observers in 4-6 parties. Total party-hours 36.5 (12 on foot, 24.5 by car), plus 3 hours at feeders. Total party-miles 333.5 (9.5 on foot, 324 by car). Total 60 species; 12,763 individuals.

Arlene Clayton, David Haight, Kevin Haight, Lisa Haight, Mindy Killion, Harold Lear (compiler-612 Max Ave., Salina KS 67401), Eloise Lynch, Charles Marsh, Ivy Marsh, Steve Miller, Judd Patterson, Doug Rudick, Trisha Remley, Monica Schneider, John Shoultys, Marge Streckfus, Judy Zanardi.

Sandhills/Finney Co. 37°50'N 101°03'W. New Count. Center 10 mi. W and 1.25 mi. N of Plymell, Finney County. Habitat: sandhills, 75% cultivated (alfalfa and corn), 25% native sandsage prairie with a mean elevation of 3,000 ft. 30 December 1998; 8:20 a.m. to 6:10 p.m.; 15°F to 61°F. Wind N 10 mph. Still water frozen; a.m. partly cloudy, p.m. partly cloudy. Seven observers in 1-6 parties. Total party-hours 16 (2 on foot, 14 by car). Total party-miles 140.5 (3.5 on foot, 137 by

car). Total 27 species; 1,194 individuals.

Debra Bolton, Barbara Campbell, Dan LaShelle, Marie Osterbuhr, Leonard Rich, Curran Salter, Tom Shane (compiler-1706 Belmont Garden City KS 67846

Sawyer. 37°32'N 98°41'W. Center as described in 1979. 16 January 1999; 8 a.m. to 5:00 p.m. 29°F to 54°F. Wind S 5 mph. Still water partly open, moving water open; a.m. partly cloudy, p.m. clear. Twelve observers in 3 parties. Total party-hours 32.5 (24 on foot, 8.5 by car). Total party-miles 147 (5 on foot, 142 by car). Total 70 species; 10,065 individuals.

Janice Brehm, Lee Brunson, Ken Brunson (compiler-512 SE 25th Ave., Pratt, KS 67124), Bill Hlavachick, Shirley Lawton, Linda Loomis, Milt Martin, Kristen Mitchell, John Phillips, Lisa Phillips, Jane Queal, Bob Wood.

Scott Lake. 38°35'N 100°56'W. Center as described in 1987. 27 December 1998; 7:20 a.m. to 4:50 p.m.; 23°F to 49°F. Wind N 5 mph; snow 0-1 inch. Still water frozen, moving water partly frozen; a.m. partly cloudy, p.m. clear. Six observers in 3 parties. Total party-hours 20 (7.5 on foot, 12.5 by car). Total party-miles 214 (4 on foot, 210 by car). Total 74 species; 22,540 individuals.

Joyce Davis, Lisa Edwards, Everett Norman, Marie Osterbuhr, Tamera Schwab, Scott Seltman, Sara Shane, Tom Shane (compiler-1706 Belmont, Garden City KS 67846).

Seneca. 39°47'N 96°05'W. Center as described in 1996. 16 January 1999; 7:30 a.m. to 5:30 p.m. 30°F to 55°F. Wind NNW-SSE 0-12 mph. Snow 0-1 inch. Still water partly open, moving water partly open; a.m. partly cloudy, p.m. clear. One observer in on party. Total party-hours 10.0 (5 on foot, 5 by car), plus 0.3 hours owling. Total party-miles (148 (8 on foot, 140 by car), plus .25 miles owling. Total 47 species, 3,351 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. 23 December 1998; 8:00 a.m. to 5:30 p.m.; 15°F to 20°F. Wind N 0-5 mph; trace of snow. Still water frozen, moving water partly frozen; a.m. cloudy, p.m. cloudy. Eight observers in 4 parties. Total party-hours 33.5 (4 on foot, 29.5 by car), plus 1.5 hours owling. Total party-miles 309.5 (4.5 on foot, 305 by car), plus 36 miles owling. Total 84 species; 2,752,491 individuals.

James Barnes, Wallace Champeny, Jack Dennett, Norma Dennett, 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 1999; 8:00 a.m. to 5:00 p.m.; 28°F to 30°F. Wind SW 8 mph. Still water partly frozen, moving water partly frozen; a.m. cloudy, light rain, sleet, p.m. cloudy. Eight observers in 4 parties. Total party-hours 24.75 (1 on foot, 23.75 by car). Total party-miles 187 (1 on foot, 186 by car). Total 59 species; 14,687 individuals.

Mavis Benner, Cindy Ford, Steve Ford (compiler-Biology Dept., Pittsburg State University, Pittsburg KS 66762), Bill Ketterman, Tom Kreissler, Elizabeth Mangile, Robert Mangile, Paul Milks.

Syracuse. 38°00'N 101°52'W. Center as described in 1994. 9 January 1999; 8:00 a.m. to 4:00 p.m. 3°F to 36°F. Wind N 3 mph. Still water frozen, moving water partly frozen; a.m. clear, p.m. clear. Eight observers in 3 parties. Total party-hours 18.75 (2.5 on foot, 15.25 by car). Total party-miles 209 (1.5 on foot, 207.5 by car). Total 61 species; 6,343 individuals.

Dan LaShelle, Arthur Nonhof (compiler-7560 Lindsay Dr., Holcomb KS 67851-9783), Gene Skinner, Betty Rich, Leonard Rich, Tom Shane, Lori Ryland.

Topeka. 39°02'N 95°40'W. Center as described in 1972. 19 December 1998; 7:00 a.m. to 5:00 p.m. 20°F to 28°F. Wind NW 7-15 mph. Still water open, moving water open; a.m. partly clear, p.m. cloudy. Twenty-six observers in 11 parties, plus 1 at feeders. Total party-hours 88.75 (36.5 hours on foot, 52.25 hours by car) plus 6 hours at feeders. Total party-miles 304.75 (34.75 on foot, 270.5 by car). Total species 76; 10,849 individuals.

Cynthia Abbott, Greg Abbott, Judy Billings, Joanne Brier, Kirk Drager, Bob Foster, Dan Gish, Dean Grisell, Gladys Grisell, Gary Haden (compiler-5225 SW 12th St., Topeka, KS 66604), Mary Hobbs, Peg Howar, Glen Koontz, Joanna

LaCoursiere, Bob Lawson, Dave Lentfer, Sarah Merrill, Susan Miller, 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; no times given; 10°F to 32°F. Wind S 10 mph. Still water open; a.m. clear, p.m. clear. Two hours at feeder. Total 15 species; 197 individuals.

Luverne Keith (compiler-Box 143, Tribune, KS 67879).

Udall/Winfield. 37°16'N 96°59'W. Center as described in 1972. 20 December 1998; 8:00 a.m. to 5:30 p.m.; 30°F to 30°F. Wind NE 8-15 mph. Still water open, moving water open; a.m. cloudy, drizzle, p.m. cloudy, freezing drizzle. Nine observers in 4 parties, plus 2 at feeders. Total party-hours 44.0 (4.5 on foot, 39.5 by car), plus 3.2 hours owling. Total party-miles 461 (4 on foot, 457 by car), plus 54 miles owling. Total 89 species; 37,873 individuals.

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

Ulysses. 37°30'N 101°18'W. Center as described in 1994. 10 January 1999; 8:00 a.m. to 6:00 p.m.; 18°F to 56°F. Wind NNW to SSW 0-5 mph. Still water frozen, moving water partly frozen; a.m. partly cloudy, p.m. partly cloudy. Six observers in 3 parties. Total party-hours 17.25 (2.5 on foot, 14.75 by car). Total party-miles 234.5 (4.5 on foot, 230 by car). Total 45 species; 6,430 individuals.

Barbara Campbell, Sam Guy, Dan LaShelle (compiler-238 SW Gage Blvd., Apt 1208, Topeka KS 66606-2059), Marie Osterbuhr, Sara Shane, Tom Shane.

Waconda Lake. 39°28'N 98°22'W. Center as described in 1992. 19 December 1998; 7:30 a.m. to 5:15 p.m.; 20°F to 28°F. Wind NNE 10-20 mph. Still water partly frozen, moving water open; a.m. partly cloudy, p.m. cloudy. Four observers in 2 parties. Total party-hours 16.5 (7.25 on foot, 9.25 by car). Total party-miles 170 (9 on foot, 11 by car). Total 81 species; 79,429 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. 20 December 1998; 5:50 a.m. to 5:00 p.m.; 13°F to 22°F. Wind N-NW 5-20 mph. Still water partly frozen, moving water open; a.m. cloudy, light snow, p.m. cloudy. Five observers in 3 parties. Total party-hours 23.25 (4.5 on foot, 18.5 by car), plus 2.5 hours owling. Total party-miles 230 (6 on foot, 224 by car), plus 23.75 miles owling. Total 88 species; 16,201 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. 28 December 1998; 7:30 a.m. to 5:00 p.m.; 28°F to 52°F. Wind SW 5-20 mph. Still water partly frozen, moving water open; a.m. partly cloudy, p.m. partly cloudy. Three observers in 1 party. Total party-hours 9 (2 on foot, 7 by car). Total party-miles 109 (3 on foot, 106 by car). Total 73 species; 33,703 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. 19 December 1998; 7:30 a.m. to 5:00 p.m.; 27°F to 29°F. Wind N 15-25 mph. Still water open, moving water open; a.m. cloudy, p.m. cloudy. Twenty-one observers in 6-8 parties, plus 3 at feeders. Total party-hours 47 (23 on foot, 24 by car), plus 3.5 hours at feeders. Total party-miles 356.5 (25.5 on foot, 331 by car). Total 84 species; 20,180 individuals.

Chris Bellar, Walker Butin, John Clark, Wallace Champeny, George Downs, Rick Goodrick, Harry Gregory, Sharon Gregory, Mike Heaney, Chris Jackson, Dan Kilby, Michael Lesan, Jim Mason, John Northrup, Pat Stanley, Eddie Stegall, Savilla Stegall, Sandra Tholen, Tammy Troutman, Donald Vannoy (compiler-2458 Coolidge St., Wichita KS 67204-5616), Lower Wulder.

Wilson Reservoir. 38°56'N 98°34'W. Center as described in 1994. 20 December 1998; 7:15 a.m. to 5:15 p.m.; 17°F to 10°F. Wind N 10-15 mph, Snow 1.5 inches. Still water frozen, moving water open; a.m. cloudy, foggy, light snow and

freezing drizzle, p.m. cloudy, light snow. Six observes in 4 parties. Total party-hours 21.5 (12 on foot, 9.5 by car). Total party-miles 133.5 (5.5 on foot, 128 by car). Total 84 species; 14,587 individuals.

Brad McCord, Greg Nichols, Ben Nondorf, Mike Rader (compiler-P. O. Box 395, Wilson KS 67490), Sara Shane, Tom Shane.

Yoder. 37°53'N 97°52'W. Center as described in 1992. 9 January 1999; 7:30 a.m. to 1:30 p.m.; 7°F to 20°F. Wind N 5-15 mph. Still water frozen, moving water partly frozen; a.m. partly cloudy, p.m. partly cloudy. Twelve observers in 6 parties. Total party-hours 25.25 (2.5 on foot, 22.75 by car). Total party-miles 248.5 (3 on foot, 245.5 by car). Total 50 species; 15,427 individuals.

Kate Burger, Mary Clark (compiler-3002 E. 30th St, Hutchinson KS 67502), Kris Davis, Dan Dyk, Rick Goodrick, Wayne Hochstetler, Steve Kinser, Verna Miller, Ann Regier, Jim Smith, Marcelee Webb, Joseph Yates.

Species	Alma-Lake Wabaunsee	Arkansas City	Baldwin	Baxter Springs	Black Wolf/ NW Ells.	BonnerSpr/ Lansing	Camp Naish	Canyon Lands	Cedar Bluff	Cheyenne Bottoms	Cimarron Grasslands	Dodge City	El Dorado	Emporia
Common Loon									1					
Pied-billed Grebe	13	10	1	15		3			59	178		cw	5	2
Horned Grebe														
Eared Grebe														
Western Grebe									3					
Am. White Pelican		4							1	9				
Dbled-crested Cormorant	cw	17	9	1		3			2	37			5	8
Great Blue Heron	1	20	1	8		3	2	1		26	cw	4	6	3
Turkey Vulture				1										
Gr. White-fronted Goose		18				1			2	306			13	71
Snow Goose			266	15000		2510			33	8		5		593
Blue Goose	2		60			4								
Ross's Goose														
Canada Goose	1050	1474	17356	2240	110	8400	109		3160	8974	cw	134	8258	1649
Brant														
goose sp.										3425				
Trumpeter Swan						8								
Tundra Swan														
Wood Duck			1											7
Gadwall	9	48	6	12		37			49	2			1	83
American Widgeon	1	2	1			3			53	cw				12
Mallard	525	62	3102	1063	cw	1140	4	7	15100	877		221	4561	1511
Blue-winged Teal				3						cw				21
Northern Shoveler		7		219						65		5		841
Northern Pintail	cw			2		1			35	1		8		15
Green-winged Teal			2						1	9		4		8
Canvasback	cw	4	1	6		1				2		2		630
Redhead	12	4	cw	6					2	4		3	1	280
Ring-necked Duck	18	29	9	30		80			2	2		2		21
Greater Scaup	cw		1											58
Lesser Scaup	2	12	5	64		13			2	21		3		68
Oldsquaw														cw
Bufflehead			11	20		2			2	36		4		17
Common Goldeneye	6	6	25	2		66			253	cw		2	21	1127
Hooded Merganser	cw	2	17	1		12			84	8			5	2
Common Merganser	5	22	22	1		300			335	103			1	24
Red-breasted Merganser														
Ruddy Duck	cw		4			20			1	14		14		985
duck sp.		312											20	
Osprey											1			
Bald Eagle	cw	34		3	cw	22			26	3	2		11	
Northern Harrier	3	55	32	30	20	8		2	24	48	81	21	57	27
Sharp-shinned Hawk	1	5	4		1	1			3	1	1	1	2	1
Cooper's Hawk	cw	4	3		1					cw	cw			2
Northern Goshawk		1												
Accipiter sp.				2									1	
Red-shouldered Hawk														
Red-tailed Hawk	17	185	61	132	18	48	4		26	6	31	28	81	54
Harlan's Hawk		3	1	4		1								
Ferruginous Hawk											36	2		
Rough-legged Hawk	cw	2	1	2	1	5			1	6	7	1	5	4
Buteo sp.										14	1			
Golden Eagle									1	2				
American Kestrel	1	31	15	32	23	7	1	4	8	3	25	13	8	15
Merlin	cw		1		2				1	9			1	
Peregrine Falcon														cw
Prairie Falcon		2			2	1		2	2	1	4	3	1	1
Falco sp.														
Ring-necked Pheasant		2			cw				3	47	16	5	2	4
Greater Prairie-Chicken	cw												15	10
Lesser Prairie-Chicken											3			
Wild Turkey	122	87	17		110	1						8	3	5
Scaled Quail											10			
Northern Bobwhite	cw	8	60	20	14				20	cw	58			19
Virginia Rail														
American Coot	1	1				1			1520	198		200		1
Sandhill Crane										cw				
Whooping Crane														
Killdeer	cw			2						cw				1
Greater Yellowlegs														
Least Sandpiper														
Common Snipe	cw		1	1	1									2
Bonaparte's Gull		1												5
Ring-billed Gull		732	5	1		2	9		31	4	cw		199	78
California Gull														
Herring Gull		2				1			7				3	3
Thayer's Gull														
Glaucous Gull														
Gr. Black-backed Gull										1				
gull sp.														
Rock Dove	26	126	57	110	132	50	23		44	1	115	299	35	261
Eurasian Collared-Dove														
Ringed Turtle-Dove														
Mourning Dove	30	141	50	46	1	94	23			cw	290	8	1	59
Inca Dove														
Greater Roadrunner														
Barn Owl											1			
Eastern Screech Owl		3	4		5		3		1					5
Great Horned Owl		22	4		1	2		6	4	5	6	1	5	1
Barred Owl	1	8	4				1						4	2
Long-eared Owl									15		2			1
Short-eared Owl											cw			
Belted Kingfisher	cw	3	4	4	1	3		1	3	cw	cw	cw	4	2

Species	Alma-Lake Wabaunsee	Arkansas City	Baldwin	Baxter Springs	Black Wolf/ NW Ells.	BonnerSpr/ Lansing	Camp Naish	Canyon Lands	Cedar Bluff	Cheyenne Bottoms	Cimarron Grasslands	Dodge City	El Dorado	Emporia
Red-headed Woodpecker	cw			35										3
Red-bellied Woodpecker	9	93	77	43	12	54	29		3	1		4	43	53
Yellow-bellied Sapsucker	1		4	4	1									1
Ladder-bk. Woodpecker											2			
Downy Woodpecker	5	38	79	25	10	60	22	5	8	4	15	4	34	39
Hairy Woodpecker	5	4	4		4	7			2	1	6		5	4
Northern Flicker		24	1		12				23	29	12		8	
Yellow-shafted Flicker	5	59	51	54	1	24	2	1	1	1	7	6	36	37
Red-shafted Flicker	2	8			1	1	1	3	1		31	3	12	2
Pileated Woodpecker		5												
Loggerhead Shrike	cw	6	3	6	cw					1	8	cw	3	1
Northern Shrike	1								3					
Blue Jay	11	65	76	250	8	130	38		1	2	5	24	8	64
Black-billed Magpie					2			13	33	3	77	58		
American Crow	121	487	432	185	56	161	23		21	1	1	130	139	186
Chihuahuan Raven											1			
Horned Lark	1	78	590	30	175	125		18	356	cw	3428	1436	51	159
Black-capped Chickadee	17		152		30	132	62	2	15	38		19	54	101
Carolina Chickadee		138		66										
Tufted Titmouse	4	57	60	42		57	25						14	47
Red-breasted Nuthatch						2					2			2
White-breasted Nuthatch	6	22	18	6	16	26	12		8	5	1		18	12
Brown Creeper		14	3	3	1	6	3			1			2	2
Rock Wren								16						
Carolina Wren	2	31	25	12	6	24	12						8	8
Bewick's Wren	1	1						1						1
House Wren														
Winter Wren		2	1				3							
Marsh Wren		1						2			6			
Golden-crowned Kinglet	2	19	6		9	1	4	4	2		2		4	3
Ruby-crowned Kinglet		2												
Eastern Bluebird	47	209	124	30	2	59	18				6		17	48
Mountain Bluebird														
Townsend's Solitaire						1		1			3			
Hermit Thrush		1	3	1			4							1
American Robin	94	250000	215	4	120	7	46		125		190	34	60	124
Gray Catbird														
Northern Mockingbird	1	35	8	14		14					2	2	1	3
Brown Thrasher				2							1			1
European Starling	234	750000	639	2580	350	209	25		4840	468	634	1141	688	7056
American Pipit														
Bohemian Waxwing														
Cedar Waxwing	75	672	133		40	2	3	10	136		248	40	4	148
Yel.-rumped Warb. Myrtle	2	27	9		12	6	1		45	7	13			
Audubon's											17			
Spotted Towhee		12	1		2				2		11	4		
Eastern Towhee						1							1	
Rufous-crowned Sparrow											1			
American Tree Sparrow	314	178	779	73	525	793		13	1272	241	1906	131	788	512
Field Sparrow	cw	18	16	3					2		2	12	3	
Vesper Sparrow											7			
Lark Bunting											185			
Savannah Sparrow		18	1	92							15		2	
LeConte's Sparrow														
Fox Sparrow		6	2			3	3		1		1			1
Song Sparrow	8	71	23	65	9	30	31	18	34	19	136	1	23	5
Lincoln's Sparrow			3	1		2					2			1
Swamp Sparrow		4	4	7		2					1			
White-throated Sparrow		8	9	25		10								
Harris' Sparrow	3	587	49	12	150	36			175	20	59	20	189	170
White-crowned Sparrow	2	44	3	123	2	23			16	1	1080	32	2	
Golden-crowned Sparrow														
Dark-eyed Junco		392	1350		200	950	87	31	235	40	681		264	403
Slate-colored	53	500		607		230		8	150	50	105	192	25	10
Oregon	5	1	10			2		27	58		241	92		
White-winged Junco								3						
Gray-headed											2			
McCown's Longspur											263			
Lapland Longspur	1	545	578		275	340		82	1150		3801	547	100	185
Smith's Longspur														11
Chestnut-coll. Longspur											1271			
sparrow sp.		100									500			
Northern Cardinal	30	199	402	188	18	262	34		3	34	9	28	49	106
Red-winged Blackbird	351	50000	1421	3700	18000	950		15	2500	1354	1555	425	241	8366
Eastern Meadowlark	12	1		560		5					1			140
Western Meadowlark	5	50			4			1	162		517	290		
meadowlark sp.		642	219		145	122				71	270		34	
Yellow-headed Blackbird														
Rusty Blackbird	cw	50000	8	12		13					5		4	0
Brewer's Blackbird		5000	201	356	300				2			8	19	16
Common Grackle	cw	100000	1	1850		250	1			515	1	258	1	
Great-tailed Grackle	cw					250				1		168	40	
Brown-headed Cowbird	2	5000	2	266	3	200			164	101	5	43	2	1250
blackbird sp.														
Purple Finch			6						2					1
House Finch	2	2	14	15	45	32			23	35	176	29	3	18
Pine Siskin		cw			30				20		92	17		
Lesser Goldfinch														
American Goldfinch	9	73	164	104	75	118	17	7	41	22	305	47	26	126
House Sparrow	6	104	310	286	160	280	73	306	23		845	787	35	108
Total Number	3295	1219164	29513	30820	21254	19356	758	26	32678	18623	19464	7033	16395	28134
Total Species	56	88	83	72	52	77	36	26	75	58	70	60	69	91

	Garden City	Halstead-Newton	Hays	Redmond Reservoir	Junction City	Kanopolis	Kirwin Reservoir	Lakin	Lawrence	L'venworth Atchinson	Liberal Seward Co.	Linn County	Manhattan	Meade County
Common Loon														
Pied-billed Grebe	7	2	2	7	8			5	22		1	54	30	
Horned Grebe									1			1		
Eared Grebe												3		
Western Grebe														
Am. White Pelican							15							
Dble-crested Cormorant			2	87	11		25	1	17			12	25	
Great Blue Heron	3	4	16	23	43	6	15	14	17	2	2	22	82	
Turkey Vulture														
Gr. White-fronted Goose		2		113		1	100		2			4		
Snow Goose		1		5135			1500	1715	283	270		400	3337	4
Blue Goose				4314			200	50	217	140		100	38	
Ross's Goose		1						10	1			3	cw	
Canada Goose	575	852	116	3007	367	3364	53700	892	654	285	775	5566	1690	2660
Brant														
goose sp.														
Trumpeter Swan														
Tundra Swan														
Wood Duck	180	5			1				13		2	2	4	cw
Gadwall	7	32	18	48	20	21		3	194		2	224	116	2
American Widgeon	170	4	15	1	1	1		13	5	2	321		5	cw
Mallard	10176	1696	243	5084	545	8529	18500	345	1650	800	59600	3195	1602	1000
Blue-winged Teal		1		2	3			1	5				4	
Northern Shoveler	12	1	3	47				4	53		1	62	21	1
Northern Pintail	12	40	7	1520	5	2			16		250	2	2	cw
Green-winged Teal	142	59	22	94	31	175		1	305		165	7	24	
Canvasback		1	2	6	16			9			2	6	13	51
Redhead	1			3					83				10	
Ring-necked Duck		24	2	20		3		2	200			11	84	
Greater Scaup														
Lesser Scaup	2	2	3	18					26		1	4	11	30
Oldsquaw														
Bufflehead				43	2	1	12		39			7	14	1
Common Goldeneye		cw		67	37	121	5		25	10	2	74	127	2
Hooded Merganser	1		1	57	32	5	35		118			187	40	
Common Merganser				8	5675	180		1	26			11	275	
Red-breasted Merganser				4					13					
Ruddy Duck				19					12			6	37	4
duck sp.				500				12						
Osprey														
Bald Eagle	1			10	153	9	86	2	50	22	1	15	81	cw
Northern Harrier	32	32	33	63	49	29	9	32	26	6	11	51	69	4
Sharp-shinned Hawk	5	3	2	5	5	3	4	3	3		1	1	5	1
Cooper's Hawk	1	4	1	2	6	3			2			3	6	
Northern Goshawk													1	
Accipiter sp.					1									
Red-shouldered Hawk												9		
Red-tailed Hawk	48	78	32	83	97	37	24	60	123	29	2	180	146	3
Harlan's Hawk		2		3	7	2		9	3			2	8	
Ferruginous Hawk	8							5			3			
Rough-legged Hawk	7	5	2	3	8	3	3	11	4		3	2	3	
Buteo sp.	10	6	1		2	1	7	3	4				4	1
Golden Eagle							2							1
American Kestrel	15	19	11	15	27	26	8	15	40	3	3	33	36	17
Merlin	3	1	1		4						1		1	
Peregrine Falcon														
Prairie Falcon	4	2	4		2	1	1	3			1			1
Falco sp.														
Ring-necked Pheasant	12	6	127		4	12	16	16	1		2		11	
Greater Prairie-Chicken			31	31		21	3						8	
Lesser Prairie-Chicken														
Wild Turkey		600	3	78	96		92		5	33	8	44	597	45
Scaled Quail	12													
Northern Bobwhite	40	61	33	47	17	27	26	8	64	1		8	152	35
Virginia Rail								2					cw	
American Coot	22			20	1		28	6	49		1	84	2	75
Sandhill Crane								7						cw
Whooping Crane														
Killdeer	1	3		1					58			1	3	
Greater Yellowlegs									2					
Least Sandpiper									4					
Common Snipe		3	4	cw					39			4	4	
Bonaparte's Gull		11		20					25				34	
Ring-billed Gull		112		678	136		8	1	1940			50	222	
California Gull														
Herring Gull				10	37	16			5			3	cw	
Thayer's Gull														
Glaucous Gull														
Gr. Black-backed Gull														
gull sp.														
Rock Dove	540	67	144	45	205	33	271	34	558	92	37	43	402	
Eurasian Collared-Dove														
Ringed Turtle-Dove														7
Mourning Dove	7	169	72	27	24		10	1	52	110	13	38	212	
Inca Dove	5													2
Greater Roadrunner									1					
Barn Owl			1					5						
Eastern Screech Owl		3			2	5			12			2	3	4
Great Horned Owl	9	15	5	3	5	3	7	10	11	1	1	3	9	2
Barred Owl		2		3	1	1			7	1		7	16	
Long-eared Owl				1	10									
Short-eared Owl			1											
Belted Kingfisher	1	2	4	5	3	3	3	1	9	1		2	20	

	Garden City	Halstead-Newton	Hays	Redmond Reservoir	Junction City	Kanopolis	Kirwin Reservoir	Lakin	Lawrence	L'venworth Atchinson	Liberal Seward Co.	Linn County	Manhattan	Meade County
Red-headed Woodpecker									2			11	14	
Red-bellied Woodpecker	3	64	14	28	52	33	14		101	20	2	107	200	4
Yellow-bellied Sapsucker	1		2	2	1	2					1	1	7	
Ladder-bk. Woodpecker														
Downy Woodpecker	7	102	22	25	38	43	40		136	18	1	106	189	5
Hairy Woodpecker	2	10	6	2	10	10	14		12	2	2	7	33	
Northern Flicker	27	6	31		18	53	27	16	21	2	10		60	
Yellow-shafted Flicker	23	96	14	39	32	14	6	10	62	19	1	74	73	2
Red-shafted Flicker	23	12	9	1	8	5	14	5			4		14	2
Pileated Woodpecker				2					2	1		13		
Loggerhead Shrike	1		1	4	3			1	4		1	9		
Northern Shrike					1	1	1							
Blue Jay	20	192	8	31	77	18	21	15	140	36	4	103	248	cw
Black-billed Magpie	122		40		2	1	318	36						
American Crow	16	1939	126	623	1331	85	73	12	650	44	8	391	1323	8
Chihuahuan Raven														
Horned Lark	552	1541	1214	305	133	160	522	2315	57	69	246	3	139	107
Black-capped Chickadee		183	61	96	159	117	83		337	48		135	625	3
Carolina Chickadee				16	50	6			98	15		98	186	
Tufted Titmouse		23			3				5		2		1	
Red-breasted Nuthatch	6	1	1		3			1						
White-breasted Nuthatch	5	6	8	4	15	16	29		57	10	5	53	122	3
Brown Creeper		3	8	3	4				13	1		8	18	
Rock Wren														
Carolina Wren	1	14	cw	9	15	11			37	6		46	54	
Bewick's Wren		2			1								5	
House Wren			cw											
Winter Wren		6	1	1	1				3				10	3
Marsh Wren			2			2		2	1		1			
Golden-crowned Kinglet	cw	58	12	5	15	3		2	6	2		10	16	4
Ruby-crowned Kinglet												1	2	cw
Eastern Bluebird		47	12	53	172	59	53		133	5	1	74	254	1
Mountain Bluebird														
Townsend's Solitaire	3				2			1					1	4
Hermit Thrush		2		1	1				3				1	
American Robin	378	973	727	22	5815	474	89	31	167	13	5	64	3027	29
Gray Catbird														
Northern Mockingbird	4	4		1	4				1	1		12	2	
Brown Thrasher			1					2						1
European Starling	10397	6243	11270	203787	1181	1201	763	325	1900	120	5000	2947	1649	1485
American Pipit														
Bohemian Waxwing				1										
Cedar Waxwing	116	1695	49		285	88	169		305		12	26	488	95
Vel-rumped Warb. Myrtle	21	68		2	108	26			9		3	1	53	1
Audubon's														
Spotted Towhee	1	20	2		9	19	2		1	2			19	
Eastern Towhee														
Rufous-crowned Sparrow														
American Tree Sparrow	345	354	1075	187	525	1035	1793	494	487	60	15	518	1082	112
Field Sparrow	29				3	13			5			3	10	
Vesper Sparrow							1							
Lark Bunting	5													
Savannah Sparrow									2			4		
LeConte's Sparrow													1	
Fox Sparrow					1	1			7			7	3	
Song Sparrow	32	21	43	13	35	71	37	5	158	10	9	108	84	302
Lincoln's Sparrow	1		2	1	3	4			cw			2	7	
Swamp Sparrow	2				14	8			72			24	9	
White-throated Sparrow	4	3	1	2	1	2	20		5	2		70	3	
Harris' Sparrow	73	1710	158	34	202	569	139	3	56	10		14	362	3
White-crowned Sparrow	601	58	20	4	142	15	37	246	43	20	76	106	9	2
Golden-crowned Sparrow	1													
Dark-eyed Junco	308		257	66	110	550	98	172	529	70	50	736		398
Slate-colored	95	1616	213	185	1393		164	123	773	340			2597	
Oregon	39	34	29	9	15	5	13	58	8	1		6	9	
White-winged Junco														
Gray-headed														
McCown's Longspur														
Lapland Longspur														
Smith's Longspur	314	14066	464		890	220	1235	401	3	1	360	20	81	
Chestnut-coll. Longspur														
sparrow sp.						50	6							
Northern Cardinal	9	275	20	54	122	74	34		479	75	3	321	526	5
Red-winged Blackbird	839	14155	1910	801630	2953	10254	335	4540	3610	220	60	3536	3544	
Eastern Meadowlark				170		2			14	5		29	18	
Western Meadowlark	509		472		11	32		226	1	1	120	1	21	9
meadowlark sp.		824			303	184	103		495	62		129	362	
Yellow-headed Blackbird														
Rusty Blackbird		82	3			26			32	6		57	75	
Brewer's Blackbird		3	15	51	41	90		10				11	2	
Common Grackle	111	3		7	26	1			129	99	6	302	13	
Great-tailed Grackle	1198			1					50	25		1000		cw
Brown-headed Cowbird	498	360	1523	30	162	81			2	60	3	103	28	
blackbird sp.							46							140
Purple Finch	3			5	8			3					2	cw
House Finch	205	1124	9	4	105	139	76	46	53	4	10	30	88	20
Pine Siskin	22	2		3	2	10		1					7	20
Lesser Goldfinch														1
American Goldfinch	218	115	65	27	280	235	204	38	189	19	10	121	535	
House Sparrow	3005	650	5347	73	198	248	7	316	600	100	130	216	496	97
Total Number	32266	52698	26231	1028993	24791	29010	81302	12767	19109	3457	67399	22322	28451	6819
Total Species	76	80	73	87	90	75	62	60	98	54	60	92	98	51

	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
Common Loon														
Pied-billed Grebe	14			20	14		9		7				1	
Horned Grebe							2							
Eared Grebe							2							
Western Grebe							1							
Am. White Pelican				cw										
Dble-crested Cormorant				6	6		1							
Great Blue Heron	3	1	2	7	7	21	16	4	4	2		10	5	
Turkey Vulture														
Gr. White-fronted Goose			1				175000		1					
Snow Goose	1		770	1900	200	125	9470	1				25		8
Blue Goose	1			800			121							
Ross's Goose				3			134							
Canada Goose	940		1539	410	346	1160	250000	1535	398	100	120	3739	116	1075
Brant														
goose sp.														
Trumpeter Swan							1							
Tundra Swan							1							
Wood Duck					21		6					3	4	
Gadwall	17		23	400	155		71	37	226			2	3	1
American Widgeon				7	9		501	1	5				4	5
Mallard	189		556	6750	5429	1500	62642	1462	274			27	886	1250
Blue-winged Teal				2	4									
Northern Shoveler	9			3	95		307		2			2		
Northern Pintail				6	42		965	11				2		
Green-winged Teal				44	92		131	2	77				4	1
Canvasback				cw	35		1		2				15	1
Redhead	3			30	12		44							2
Ring-necked Duck			3	103	62			22						
Greater Scaup														
Lesser Scaup				28	30		2	1						
Oldsquaw														
Bufflehead			3	5	19		171							
Common Goldeneye	15		23	78	12		48		3				2	
Hooded Merganser			21	130	11		8							
Common Merganser			26	31			3							
Red-breasted Merganser				24										9
Ruddy Duck	2		7	9	8		126							20
duck sp.			430											
Osprey					1			40	101					
Bald Eagle	2		5	42	11	6	57	1						
Northern Harrier	1	30	31	8	50	19	77	26	15	11	55	17	24	8
Sharp-shinned Hawk	1	5	1	1			9	5	cw	2		1	5	
Cooper's Hawk	3	1	1		2	1		2					2	
Northern Goshawk														
Accipiter sp.				2					1					
Red-shouldered Hawk								1						
Red-tailed Hawk	35	27	18	56	160	37	58	76	32	15	4	45	14	14
Harlan's Hawk		4	4				1	1	2					
Ferruginous Hawk		7					1			1	5		4	
Rough-legged Hawk	1	18	2		3			1		5	6	3	12	
Buteo sp.			6						3		3			
Golden Eagle							1				1		1	
American Kestrel	15	5	5	7	40	5	22	20	30	11	7	8	12	10
Merlin		1		1		2	7	1		1			2	
Peregrine Falcon									1					
Prairie Falcon		3	1				3	2	2	2	3	5	2	
Falco sp.														
Ring-necked Pheasant		12	1				7	9	7	16	29	16	6	3
Greater Prairie-Chicken			14											
Lesser Prairie-Chicken											21			
Wild Turkey			148	375		2	24	202	cw	127		28		
Scaled Quail														
Northern Bobwhite		2	8	49	28		20	19	3		5	50	13	
Virginia Rail		1						2					4	
American Coot	48			24	2515		13							
Sandhill Crane							10505	667				9		
Whooping Crane							1							
Killdeer				1	4							1		
Greater Yellowlegs							1							
Least Sandpiper														
Common Snipe				1	7			8				1	2	
Bonaparte's Gull				123										
Ring-billed Gull	450		39	295	16		8		2			1		
California Gull				1										
Herring Gull				2					487					
Thayer's Gull				1										
Glaucous Gull														
Gr. Black-backed Gull														
gull sp.			51											
Rock Dove	78	9	6	18	18		4	13	324	15		8	84	16
Eurasian Collared-Dove													13	
Ringed Turtle-Dove														
Mourning Dove	60	1		39	86	4	16	11	27			1	1	
Inca Dove														
Greater Roadrunner												1		
Barn Owl														
Eastern Screech Owl				4			8	3		3		1	2	
Great Horned Owl		2	2	8	1	1	8	4	1	5		1	4	4
Barred Owl				6	1	1		1				2		
Long-eared Owl							10	1					6	
Short-eared Owl		1					1						1	
Belted Kingfisher	5		1	3	1		2	4	2	2		8	1	1

	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
Red-headed Woodpecker			3		46									
Red-bellied Woodpecker	18	2	21	79	44	22	20	35	26	6		39	4	5
Yellow-bellied Sapsucker			2			5		5	4			2		
Ladder-bk. Woodpecker														
Downy Woodpecker	24	2	17	122	27	13	16	29	28	5		28	14	8
Hairy Woodpecker	3		4	7	4	3	5	8	2	3		2	6	5
Northern Flicker		2	20	23			31	21	34	8		23	14	2
Yellow-shafted Flicker	5		5	17	34	14	16	21	18	2		3	3	
Red-shafted Flicker		9	1				6	14	5	23		2	22	
Pileated Woodpecker					2									
Loggerhead Shrike		1	1	2	11		12				1	2		1
Northern Shrike							4			2			2	1
Blue Jay	34		88	153	135	31	10	21	41	14		4	13	20
Black-billed Magpie		3					9		1	31		2	36	
American Crow	115	29	3447	207	291	130	66	721	223		3	141		28
Chihuahuan Raven											16			
Horned Lark		3619		30	580		7		32	945	352	781	3347	
Black-capped Chickadee	84		58	181		97	28		157	12		117	26	12
Carolina Chickadee					41			71				7		
Tufted Titmouse	57		22	142	25	24		12	7			17		7
Red-breasted Nuthatch													1	
White-breasted Nuthatch	9		6	66	4	4	2	8	4	11		33	12	5
Brown Creeper	3			12	2	1		3	1			3	4	1
Rock Wren														
Carolina Wren	14			14	5	5		4				15		
Bewick's Wren			1					3						
House Wren														
Winter Wren			1		1			1				2		
Marsh Wren		3					12			10			3	
Golden-crowned Kinglet				8	2		35	2	6			3	7	1
Ruby-crowned Kinglet								3	4					
Eastern Bluebird	39		26	87	117	29	59	153	10			88	19	11
Mountain Bluebird								125						
Townsend's Solitaire		1					2	2		2			13	
Hermit Thrush			1					4				1		
American Robin	38	1	5057	119	12	91	213	194	448	329	2	92	321	38
Gray Catbird													1	
Northern Mockingbird	3		2	3	22	1	1		1				1	
Brown Thrasher					1									
European Starling	1330	241	321	520	367	104	764	1008	4866	414	11	328	2486	144
American Pipit														
Bohemian Waxwing														
Cedar Waxwing	48	31	82	164	25	1	32	189	107	250		34	273	42
Yel.-rumped Warb. Myrtle			5	3			180	169		1		57	23	4
Audubon's														
Spotted Towhee				1			8	7	2			2	10	
Eastern Towhee												4		
Rufous-crowned Sparrow														
American Tree Sparrow	62	511	353	870	35	256	1825	117	346	246	187	143	58	183
Field Sparrow			1		13		1	6				1		
Vesper Sparrow														
Lark Bunting														
Savannah Sparrow							11					14		
LeConte's Sparrow														
Fox Sparrow	1						12	1					6	
Song Sparrow	10	18	43	45	30	6	50	165		42	2	28	47	4
Lincoln's Sparrow								1						
Swamp Sparrow				1	5		2			2			1	
White-throated Sparrow	1			2	9			3		1			1	1
Harris' Sparrow	2	16	61	66	32	89	300	125	267	5	8	85	42	2
White-crowned Sparrow	13	43	13	4	116		43	23	1	4	88		15	
Golden-crowned Sparrow														
Dark-eyed Junco			635	1520	550	412	15	290	108	55		229	127	
Slate-colored	373	32		1000			280	378	281	24	1		46	54
Oregon		14	8	60			17	5	178	108	8		141	2
White-winged Junco														
Gray-headed														
McCown's Longspur														
Lapland Longspur		539		75	3		10			665	9	30	12145	
Smith's Longspur														
Chestnut-coll. Longspur														
sparrow sp.														
Northern Cardinal	103	1	113	287	202	52	34	76	122	3		89	12	11
Red-winged Blackbird	960	14698	246	280	1134	6	9400	4363	755	110		3115	308	62
Eastern Meadowlark	8			3		64	26	1	44			20		2
Western Meadowlark		377					25	49	37	63	177	328	140	91
meadowlark sp.			18	70	486		344	336	54					
Yellow-headed Blackbird									1					
Rusty Blackbird					25			1	1					2
Brewer's Blackbird		2			6			30					1	
Common Grackle	1			2	1	12	79	31				3		
Great-tailed Grackle														
Brown-headed Cowbird	4	235			228	40	2	19	10				13	
blackbird sp.			36						1931					
Purple Finch					8								1	
House Finch	5		60	15	3	30	60	157	47	40	1	22	113	2
Pine Siskin		5	15		6			80		90	9	1	11	
Lesser Goldfinch														
American Goldfinch	13	22	127	271	48	116	44	209	34	54		70	118	
House Sparrow	106	334	68	256	137	93	43	151	476	160	60	38	1278	172
Total Number	5379	20921	14738	18648	14428	4635	524809	13647	12761	4058	1194	10065	22540	3351
Total Species	53	43	62	80	82	43	92	80	60	47	27	70	74	47

	Slate Creek	SE Kansas Mined Land	Syracuse	Topeka	Tribune	Udall Winfield	Ulysses	Waconda	Wakefield	Webster	Wichita	Wilson Reservoir	Yoder	Total
Common Loon								2		2		1		6
Pied-billed Grebe	5	31		17		9		123	5	1	24	1		705
Horned Grebe												1		5
Eared Grebe				1										3
Western Grebe														7
Am. White Pelican								63		2				94
Dble-crested Cormorant	1			2		15		190	69	110	29	4		695
Great Blue Heron	11	8		7		11		5	8	10	26	4	2	498
Turkey Vulture														1
Gr. White-fronted Goose		1				cw		2000				27		177671
Snow Goose	1200	4		454		cw		8125	2992			85		56412
Blue Goose		4						1700				6		8243
Ross's Goose	6					cw		25				1		188
Canada Goose	275	720	565			230		22850	429	6500	4674	480	522	426140
Brant											1			1
goose sp.														3425
Trumpeter Swan														9
Tundra Swan												6		7
Wood Duck	3					5					11			275
Gadwall	6	43	5	86		50		7	29	1	74	28		2198
American Widgeon	11		4			2		4	2	6	26	23		1220
Mallard	1432	923		798		2562		28100	1705	20000	1395	9438		288456
Blue-winged Teal				4										50
Northern Shoveler	3			147		2			11		50	1		1974
Northern Pintail						3		1	3	18		21		2993
Green-winged Teal	3	4				21		35	9	12	10	51		4549
Canvasback		2				6		cw	5		28	2		839
Redhead		4		32		6		1	3		8			548
Ring-necked Duck		277		11		115		cw	8		15	5		1160
Greater Scaup														59
Lesser Scaup	1			62		18		16	4		97	204		750
Oldsquaw														
Bufflehead				22		1		5	8		56	10		511
Common Goldeneye						39		2500	11	154	96	130		5089
Hooded Merganser	2			6		10		19	3	20	27	19		883
Common Merganser				3		cw		206	2579	2500	1	45		12392
Red-breasted Merganser									3					44
Ruddy Duck				15				cw	154		21	cw		1478
duck sp.														1416
Osprey														1
Bald Eagle	12		1	26		2		45	35	64	5	4	3	852
Northern Harrier	36	20	20	8		54	25	66	28	7	3	5	20	1518
Sharp-shinned Hawk	8		1	6		3	4	1	2	1	2	3	3	121
Cooper's Hawk	6	2		4		2	1	2		1	1	2	1	74
Northern Goshawk												1		3
Accipiter sp.	2	2	1	1					1					12
Red-shouldered Hawk		1												13
Red-tailed Hawk	150	42	19	69		142	25	37	43	22	39	16	63	2891
Harlan's Hawk	1			2					5				2	67
Ferruginous Hawk			8				5			1				86
Rough-legged Hawk	1		13	cw			21		5					180
Buteo sp.		2	1				2		5		1		17	94
Golden Eagle			1				1							11
American Kestrel	45	6	27	47		26	7	cw	4	11	26	9	16	875
Merlin	1		2			1	4	2		1		1	1	53
Peregrine Falcon														1
Prairie Falcon	2		1	cw			2	2		1		1	3	73
Falco sp.									2		1			3
Ring-necked Pheasant	32		5	2			9	6	14	7	7	1	6	481
Greater Prairie-Chicken						6			29			cw		875
Lesser Prairie-Chicken														24
Wild Turkey		65		cw		22			48	100			9	3104
Scaled Quail			20											42
Northern Bobwhite	86		4	94		133	3	1	6	8	13	36	31	1330
Virginia Rail												1		10
American Coot		5		14				11	2	10	81	1		4934
Sandhill Crane														11188
Whooping Crane														1
Killdeer				1		20					1			98
Greater Yellowlegs														3
Least Sandpiper														4
Common Snipe		2									1			81
Bonaparte's Gull								698				3		920
Ring-billed Gull	610			100		10		2540	58	175	2551	61		11224
California Gull								1						2
Herring Gull	1							200		21	115	7		920
Thayer's Gull								3						4
Glaucous Gull										1	1			2
Gr. Black-backed Gull											1			1
gull sp.		1		12					27					92
Rock Dove	47		133	454	8	117	232	28	19	38	394	1	28	5842
Eurasian Collared-Dove			1											14
Ringed Turtle-Dove														
Mourning Dove	145	21		346		37	10	cw	19	4	107	cw	43	2456
Inca Dove							cw							7
Greater Roadrunner														2
Barn Owl									2					10
Eastern Screech Owl	2					2		6	2	2	3	2		92
Great Horned Owl	36	7	2	6		6	2	9	4	2	7	4	1	268
Barred Owl	9			3		21			7					109
Long-eared Owl								5						50
Short-eared Owl								4						9
Belted Kingfisher	2	2		4		4		2	2	2	8	1		136

	Slate Creek	SE Kansas Mined Land	Syracuse	Topeka	Tribune	Udall Winfield	Ulysses	Waconda	Wakefield	Webster	Wichita	Wilson Reservoir	Yoder	Total
Red-headed Woodpecker		21		2		2								139
Red-bellied Woodpecker	44	14	6	77		67	1	16	30	12	10	12	26	1699
Yellow-bellied Sapsucker	5			2		1								54
Ladder-bk. Woodpecker														2
Downy Woodpecker	48	2	1	134		64		20	24	19	37	5	8	1775
Hairy Woodpecker	5		1	9		3	2	8	6	9	5	5	5	262
Northern Flicker	17		4			31	5	15	5	44	12	9	63	763
Yellow-shafted Flicker	37	15	5	52	2	62	6	13	15		23	1	2	1121
Red-shafted Flicker	5		52	1		4	14	4	3		1	4		332
Pileated Woodpecker	2					2								29
Loggerhead Shrike	7	2				2	1	1	1		2			99
Northern Shrike			1			cw	3			1				21
Blue Jay	67	101	14		8	68	4	11	99	1	16	cw	43	2591
Black-billed Magpie			69				22	12	1	16	1	2		913
American Crow	309	163	38	356	3	380	9	33	422	65	4310	23	143	20240
Chihuahuan Raven														1
Horned Lark	1087	639	354	50		412	1382	255	5	40	120	252	1197	29296
Black-capped Chickadee	1		2	254		13		39	44	32	62	12	106	3806
Carolina Chickadee	77	13				125								538
Tufted Titmouse	27	4		153		43			20		11		2	1371
Red-breasted Nuthatch				2							4	1		34
White-breasted Nuthatch	6	1	1	55	1	30		18	16	9	8	3	2	797
Brown Creeper		1		41		2		2	1		17			189
Rock Wren												1		17
Carolina Wren	10	1		29		19		1	8	2	16		1	465
Bewick's Wren	3					2								21
House Wren												1		1
Winter Wren						2					3			43
Marsh Wren			2				2	1		2		2		54
Golden-crowned Kinglet	6			18		4		12	11	3	28	1		336
Ruby-crowned Kinglet				1		1					1	1		17
Eastern Bluebird	39	34	6	87		114		5	32	58		21	17	2475
Mountain Bluebird												22		147
Townsend's Solitaire	2		3							1				42
Hermit Thrush	2					1			2					29
American Robin	241		81	724	30	2714	26	283	340	120	141	768	112	275368
Gray Catbird												1		2
Northern Mockingbird	2	3	1	1		19	1		1		2			173
Brown Thrasher					1	2								12
European Starling	105505	417	611	2118	10	4660	63	1250	1039	275	2912	395	805	1150096
American Pipit		200									15			215
Bohemian Waxwing									3					4
Cedar Waxwing	254		160	922	24	934	27	114	132	53	89	38	1	8865
Yel.-rumped Warb. Myrtle	21					4	7	2	29	6	37	26	6	994
Audubon's														17
Spotted Towhee	10		25			3	1	14	22	8	10	4	1	235
Eastern Towhee														6
Rufous-crowned Sparrow														1
American Tree Sparrow	676	11	394	193		1809	309	1150	543	400	129	1027	369	27809
Field Sparrow	3	4	1			15	1		1		1		35	202
Vesper Sparrow														8
Lark Bunting							3							193
Savannah Sparrow	8	4				19					1			191
LeConte's Sparrow														1
Fox Sparrow	6			1		1			6	1	3	5		79
Song Sparrow	57	26	61	17		74	32	37	54	23	24	46	12	2354
Lincoln's Sparrow	1			5		3			2					41
Swamp Sparrow	3	1	1			23		3	6			1		196
White-throated Sparrow	4	5	2	18				2	2	2	9		2	229
Harris' Sparrow	1764	22	20	75		3146	1	475	556	200	179	325	855	13521
White-crowned Sparrow	275	124	198	2	1	34	250	119	172	45	3	8	3	4304
Golden-crowned Sparrow														1
Dark-eyed Junco	247	197	358	1259		1361	86				177	35	322	15960
Slate-colored	610		56		10	416	11	355	876	240	288	330		15090
Oregon	15	8	71	6	4	11	85	30	10	15	5	6		1469
White-winged Junco														3
Gray-headed														2
McCown's Longspur														263
Lapland Longspur	4502	16	233			326	846	18	108	150	20	82		45436
Smith's Longspur						30								41
Chestnut-coll. Longspur	201							1	3					1476
sparrow sp.	2300													2990
Northern Cardinal	240	121	1	252		218		44	209	21	156	12	54	5761
Red-winged Blackbird	2604610	9301	2044	135	10	12940	1303	4810	2366	1400	337	143	7336	3618636
Eastern Meadowlark	2	618				1								367
Western Meadowlark			213			1	618	47	116	4		40	184	2113
meadowlark sp.	1174			305		673		145	12	53	62	25		4942
Yellow-headed Blackbird	4													7722
Rusty Blackbird	32	160		1		58			75			4		5
Brewer's Blackbird	844	2		84	10	925			25			2		50682
Common Grackle	21002	35				4		2	157	1	1		3	8056
Great-tailed Grackle	19													124908
Brown-headed Cowbird	850	154	1			550		7	85	4	11	2	10	2752
blackbird sp.	540					495							2000	12113
Purple Finch								1			1			6291
House Finch	52	1	23	98		384	19	19	2	118	10	24		41
Pine Siskin			2				3	1	1	75		2		3612
Lesser Goldfinch														527
American Goldfinch	117	22	30	242	24	420	137	18	44	60	68	16	112	1
House Sparrow	301	25	363	202	50	433	797	370	48	300	765	89	452	5626
Total Number	2752491	14687	6343	10849	196	37873	6430	79429	16201	33703	20180	14587	15427	6561698
Total Species	84	59	61	76	15	89	45	81	88	73	84	84	50	165