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WINTER BIRD COUNT FOR 1981

John L. Zimmerman

The conditions which contributed to this year's record-breaking count of 146 species can be traced back to the past summer. The optimally spaced rainfall during the growing season resulted in high seed production so that there was an abundance of food, even in the frequently barren upland prairies. Greater plant productivity was probably also reflected in larger populations of herbivorous rodents, providing greater resources for wintering carnivores. Early winter weather patterns produced relatively mild weather in the central plains, permitting individuals of more southerly wintering species to linger, while more severe weather in the northern plains insured that weather-dependent migrants like many waterfowl would be pushed south. And whatever the factors might be that control the erratic wanderings across North America of the boreal finches, they operated to determine that this was also the year these species came to Kansas. In short, it has been a long time (maybe never before during the 33 years the Kansas Ornithological Society has tabulated these counts) since environmental factors have been so satisfactory for high species diversity and densities on the winter bird count.

Many compilers reported maximum numbers of species this year, and Manhattan's 101 is amazing. I would not have thought it possible to "break 100" in the mid-continent. Emporia, Junction City, Kansas City, Lawrence, Linn County, Udall-Winfield and Wichita all discovered more than 75 species. The 27 counts reported this year and the 467 participants, on the other hand, have been equalled or exceeded in 3 other years. Bad weather during the first weekend in January resulted in some counts being cancelled.

Again Cimarron National Grasslands (formerly Morton County) had the maximum number of unique species (9), but was tied by Manhattan. Both Wilson Reservoir and Udall-Winfield found 3 species discovered by no other group, while Sawyer and Topeka each had 2. Emporia, Lawrence, Linn County, Oskaloosa-Perry Reservoir, Pawnee-Rush Counties, Pomona Reservoir and Wichita each found 1 unique species.

The Ground Dove at Udall-Winfield, which was double-checked the day after the count, a Sage Thrasher that came to the heated stock tank on Scott Seltman's ranch within the Pawnee-Rush Counties circle, and a Lesser Goldfinch visiting Thelma Vogel's feeder for 2 weeks in Topeka were the new species added this year. While not new to the Kansas winter count list, the Western Grebe on Lake Shawnee in Topeka (that was accompanied by an Eared Grebe, except on count day), the American Bittern flushed from the eastern end of the Winfield City Lake, the White-winged Scoter seen on Reading State Lake by the Emporia group, the 2 Red-breasted Mergansers on Perry Reservoir, the Virginia Rails on the Sawyer count, a Bonaparte's Gull along the Kansas River and a second year Glaucous Gull at Tuttle Creek dam on the Manhattan count, a Say's Phoebe seen repeatedly around the overlook area and below the dam at Wilson Reservoir, the House Wrens at Lawrence and Arkansas City, and the Common Yellowthroat in the cattail marsh at Marais des Cygnes Wildlife Area in Linn County are all unusual. The Osprey reported on the Manhattan count was seen along the face of the dam at Tuttle

Creek Reservoir. Another, or perhaps the same individual, was seen on 6 January 1982 on Konza Prairie.

Besides some of the species listed above, there were other birds wintering north of their expected ranges. A Common Loon at Manhattan was in the same place as last year's bird, and another was seen during count week at Emporia. Double-crested Cormorants were present at Junction City, Manhattan, Linn County, Wichita, and during count week at Udall-Winfield. Among the waterfowl, White-fronted Goose (3 counts), Blue-winged Teal (2 counts), Northern Shoveler (1 count), Wood Duck (3 counts), and Ruddy Duck (1 count) had stayed on in limited numbers. Hooded Mergansers were present on over 30 percent of the counts from Wilson Reservoir and Wichita eastward to Linn County. Two Sandhill Cranes remained long enough in the Pawnee-Rush County area to be present during the count period, but were not seen after 20 December 1981. Some passerines also lingered. There were Hermit Thrushes at Emporia and Junction City as well as during count week at Manhattan, a Yellow-headed Blackbird at Manhattan, Savannah Sparrows at Oskaloosa-Perry Reservoir and Sawyer, and a Vesper Sparrow at Manhattan and during the count period at Junction City. The presence of Brown Thrashers on over 40 percent of the Kansas counts further attests to the mildness of the weather prior to the count period.

The diversity of fringillids was high, their distribution widespread, and their numbers were abundant. Lincoln Sparrows occurred on over 25 percent of the counts with 22 individuals recorded at Manhattan. Swamp Sparrows were found on 30 percent of the counts with 68 counted in Linn County. While numbers of Fox Sparrows and White-throated Sparrows were low, both species were present on over 40 percent of the counts. Field Sparrows also occurred on over 40 percent of the counts with 102 found at Pittsburg. White-crowned Sparrows were present on about 80 percent of the counts, and the 452 individuals on the Cimarron Grasslands count is impressive. So too are the 6431 Tree Sparrows at Kanapolis Reservoir and the 1054 Harris' Sparrows at Udall-Winfield. It was indeed a great year for sparrows.

It was also a great year for raptors. Cooper's Hawks were present on about 40 percent of the censuses. Prairie Falcons occurred on over 50 percent of the counts. If those seen during count periods are included, Golden Eagles occurred on 30 percent of the counts. And numbers are also impressive. Salina counted 17 Rough-legged Hawks, Kansas City reported 143 Red-tailed Hawks, and Emporia recorded 111 Marsh Hawks. Owls were also well represented with Long-eared Owls at Baldwin, Emporia, Oskaloosa-Perry Reservoir and Wilson Reservoir and Short-eared Owls at Emporia, Halstead-Newton, Manhattan, and Pawnee-Rush Counties.

Of the northern finches that appeared in the state, the White-winged Crossbill that was observed during the count period in Baldwin but missed count day is certainly the most exciting find. Red Crossbills were present in the eastern half of the state, being recorded at Halstead-Newton, Wichita, Junction City, Emporia, Olathe, and Kansas City. Evening Grosbeaks were less common but more widely spread from Hays to Junction City and Manhattan and east to Baldwin. Redpolls were scarce, found only at Emporia and Kanapolis Reservoir.

Arkansas City. 37° 02' N, 97° 02' W. Center Jct. US-77 and Arkansas River. Habitat coverage: riparian woodland 40 percent, cultivated fields 25 percent, grassland 20 percent, residential areas 10 percent, lakes and rivers 5 percent. Jan. 2, 1982. 8 a.m. to 5 p.m., 36°F to 43°F; wind S changing to N, 10-18 m.p.h.; water partly open, no snow cover; A.M. cloudy with intermittent rain, P.M. clear. Seventeen observers in 7 parties. Total party-hours 46 (31 on foot, 15 by car). Total party-miles 223 (32 on foot, 191 by car).

Great Blue Heron 11; Mallard 11; Gadwall 2; American Wigeon 2; Redhead 1; Common Merganser 1; Sharp-shinned Hawk 2; Red-tailed Hawk 96; Red-tailed (Harlan's) Hawk 1; Rough-legged Hawk 3; Bald Eagle 19; Marsh Hawk 7; Merlin 1; American Kestrel 36; Bobwhite 277; Ring-necked Pheasant 12; Killdeer 1; Common Snipe 1; Herring Gull 4; Ring-billed Gull 557; Rock Dove 135; Mourning

Dove 108; Great Horned Owl 11; Barred Owl 1; Belted Kingfisher 7; Common (Yellow-shafted) Flicker 76; Common (Red-shafted) Flicker 3; Pileated Woodpecker 6; Red-bellied Woodpecker 53; Red-headed Woodpecker 8; Yellow-bellied Sapsucker 1; Hairy Woodpecker 9; Downy Woodpecker 68; Horned Lark 776; Blue Jay 94; Common Crow 178; Carolina Chickadee 587; Tufted Titmouse 53; White-breasted Nuthatch 39; Brown Creeper 6; House Wren 1 (fair details—Ed.); Winter Wren 2; Mockingbird 8; Brown Thrasher 1; American Robin 17; Eastern Bluebird 4; Ruby-crowned Kinglet 1; Cedar Waxwing 9; Loggerhead Shrike 5; Starling 3118; Yellow-rumped (Myrtle) Warbler 4; House Sparrow 1897; Eastern Meadowlark 9; *Sturnella* sp. 414; Red-winged Blackbird 1942; Rusty Blackbird 104; Brewer's Blackbird 16; Common Grackle 22; Brown-headed Cowbird 1; Cardinal 261; Pine Siskin 38; American Goldfinch 152; Rufous-sided Towhee 16; Northern (Slate-colored) Junco 1238; Northern (Oregon) Junco 6; Tree Sparrow 636; Field Sparrow 1; Harris' Sparrow 659; White-crowned Sparrow 7; Fox Sparrow 2; Lincoln's Sparrow 1; Song Sparrow 47; Lapland Longspur 3602. Total 69 species (3 additional subspecies); about 17,504 individuals. Seen in area during count period, but not on count day: Turkey.

W. Champeny (compiler—RR 1, Oxford, KS 67119), B. DuGay, B. Gress, Bev and Ruth Hodges, K. Hollinga, S. Kingswood, J. Roark, L. Turnbull, D. Vannoy, D. Virden, J. Wherry, G. Wiens, R. Wiley, Agnes, Larry and Ross Williams.

Baldwin. 38° 47' N, 95° 16' W. Center Jct. Hwys 56 and 59. Habitat coverage: not given. Dec. 19, 1981. 5:30 a.m. to 6 p.m.; 10°F to 17°F; wind S, 0-5 m.p.h.; water frozen; 2" snow cover; clear to partly cloudy. Twenty-eight observers in 8 parties. Total party-hours 68 (21 on foot, 47 by car) plus 4 hrs. owling and 8 hrs. at feeders. Total party-miles 465 (33 on foot, 432 by car) and 12 miles owling.

Pied-billed Grebe 10; Great Blue Heron 1; Canada Goose 395; White-fronted Goose 56; Snow Goose (white morph) 360; Snow Goose (blue morph) 12; Mallard 2307; Gadwall 55; Pintail 1; Am. Green-winged Teal 2; American Wigeon 1; Ring-necked Duck 4; Common Goldeneye 12; Sharp-shinned Hawk 3; Cooper's Hawk 1; Red-tailed Hawk 96; Red-tailed (Harlan's) Hawk 1; Rough-legged Hawk 10; Bald Eagle 1; Marsh Hawk 16; American Kestrel 52; Bobwhite 33; Turkey 2; Killdeer 1; Common Snipe 2; Rock Dove 24; Mourning Dove 108; Screech Owl 4; Great Horned Owl 14; Barred Owl 4; Long-eared Owl 2; Belted Kingfisher 2; Common (Yellow-shafted) Flicker 57; Common (Red-shafted) Flicker 2; Red-bellied Woodpecker 41; Red-headed Woodpecker 61; Yellow-bellied Sapsucker 3; Hairy Woodpecker 5; Downy Woodpecker 65; Horned Lark 1159; Blue Jay 272; Common Crow 342; Black-capped Chickadee 289; Tufted Titmouse 58; White-breasted Nuthatch 18; Red-breasted Nuthatch 2; Brown Creeper 4; Mockingbird 10; Brown Thrasher 4; American Robin 20; Eastern Bluebird 77; Golden-crowned Kinglet 2; Cedar Waxwing 30; Loggerhead Shrike 16; Starling 1124; House Sparrow 1049; Eastern Meadowlark 42; *Sturnella* sp. 275; Red-winged Blackbird 353; Rusty Blackbird 542; Common Grackle 4; Brown-headed Cowbird 116; Cardinal 286; Purple Finch 3; Pine Siskin 15; American Goldfinch 267; Rufous-sided Towhee 2; Northern (Slate-colored) Junco 1131; Tree Sparrow 1195; Harris' Sparrow 95; White-crowned Sparrow 6; White-throated Sparrow 3; Fox Sparrow 4; Lincoln's Sparrow 7; Swamp Sparrow 1; Song Sparrow 60; Lapland Longspur 6. Total 73 species (2 additional subspecies); about 12,714 individuals. Seen in area during count period, but not on count day: Evening Grosbeak, White-winged Crossbill (no details—Ed.).

Amelia and Donald Betts, C. Borgelt, Ivan and Margaret Boyd, R. Boyd (compiler—Biology Dept., Baker Univ., Baldwin City, KS 66006), Elanor, John, Johnnie and S. Martin Brockway, T. A. Church, C. Cink, L. Cromwell, C. Davis, L. E. Eberwein, R. Faulh, K. Kelley, J. Marshall, M. Pressgrove, T. Rodhouse, B. Stark, D. Stout, D. Triebel, G. Walters, D. Whitemore, G. Wiley, John and Linda Zempel.

Cimarron National Grasslands (formerly Morton Co.). 37° 07' N, 101° 52' W. Center 7 mi. N, 2 mi. E of Elkhart, KS. Habitat coverage: riparian woodland 30

percent, grassland 25 percent, marsh 15 percent, residential areas 10 percent, cultivated fields 10 percent, rocky slopes 10 percent. Jan. 1, 1982. 7 a.m. to 6 p.m., 25°F to 50°F; wind SE to SW, 25-30 m.p.h.; water partly open; 2-3" snow cover; partly cloudy A.M., clear P.M. Fifteen observers in 4 parties. Total party-hours 39 (12.5 on foot, 26.5 by car). Total party-miles 332 (19 on foot, 313 by car).

Canada Goose 51; Mallard 34; Am. Green-winged Teal 1; Common Merganser 1 (good details—Ed.); Sharp-shinned Hawk 2; Cooper's Hawk 2; *Accipiter* sp. 1; Red-tailed Hawk 6; Rough-legged Hawk 10; Ferruginous Hawk 10; *Buteo* sp. 2; Golden Eagle 3; Bald Eagle 3; Marsh Hawk 24; Prairie Falcon 3; Merlin 2; American Kestrel 12; Lesser Prairie Chicken 3; Bobwhite 22; Scaled Quail 83; Ring-necked Pheasant 11; Rock Dove 23; Mourning Dove 16; Great Horned Owl 7; Common (Yellow-shafted) Flicker 11; Common (Red-shafted) Flicker 13; Common Flicker ssp. 3; Hairy Woodpecker 1; Downy Woodpecker 8; Horned Lark 3943; Blue Jay 3; Black-billed Magpie 80; Common Crow 15; White-breasted Nuthatch 1; Brown Creeper 2; Marsh Wren 3; Mockingbird 1; Curve-billed Thrasher 1 (excellent details—Ed.); American Robin 4; Eastern Bluebird 8; Mountain Bluebird 1; Townsend's Solitaire 2; Golden-crowned Kinglet 1; Ruby-crowned Kinglet 1 (excellent details—Ed.); Cedar Waxwing 1; Northern Shrike 1 (excellent details—Ed.); Loggerhead Shrike 3; Starling 586; House Sparrow 1445; Western Meadowlark 214; Red-winged Blackbird 120; Common Grackle 3; House Finch 54; Pine Siskin 182; American Goldfinch 42; Lark Bunting 8; Northern (Slate-colored) Junco 86; Northern (Oregon) Junco 71; Northern Junco ssp. 3; Tree Sparrow 399; Harris' Sparrow 14; White-crowned Sparrow 452; Swamp Sparrow 1; Song Sparrow 29; McCown's Longspur 4; Lapland Longspur 1805; Chestnut-colored Longspur 8; *Calcarius* sp. 2223. Total 61 species (2 additional subspecies); about 12,188 individuals. Seen in area during count period, but not on count day: Killdeer.

D. Bryan, R. Fisher, J. Garrett, Chris and J. K. Hobbs, N. Johnson, E. McHugh, Jananne and Ted McNitt, S. Patti (compiler—727 West Irving Park No. 3, Chicago, IL 60613), Scott and Diane Seltman, J. Schulenberg, C. Swink, M. Thompson.

Concordia. 39° 33' N, 97° 39' W. Center Cloud County Community College. Habitat coverage: oldfields and fencerows 30 percent, grassland 30 percent, cultivated fields 20 percent, riparian woodland 10 percent, marsh 10 percent. Dec. 28, 1981. 8 a.m. to 6 p.m.; 20°F to 35°F; wind 0; water frozen; no snow cover; clear. Three observers in 1 party. Total party-hours 9 (3 on foot, 6 by car). Total party-miles 60 (3 on foot, 57 by car).

Mallard 8; Red-tailed Hawk 18; Marsh Hawk 4; American Kestrel 9; Bobwhite 1; Ring-necked Pheasant 5; Rock Dove 20; Blue Jay 1; Black-billed Magpie 1; Common Crow 12; Black-capped Chickadee 15; Starling 140; Western Meadowlark 54; Brown-headed Cowbird 250; Cardinal 8; Northern (Slate-colored) Junco 6; Tree Sparrow 8. Total 17 species; about 560 individuals.

E. Leon (compiler—1515 Archer, Concordia, KS 66901), Kelly and Stuart Leon.

Elk City Reservoir. 37° 15' N, 95° 51' W. Center Card Creek 7 mi. W Independence, KS. Habitat coverage: cultivated fields 40 percent, lakes and rivers 30 percent, oldfields and fencerows 20 percent, upland deciduous forest 10 percent. Dec. 26, 1981. 7:30 a.m. to 5 p.m., 20°F to 43°F; wind SE to NW, 2-10 m.p.h. Three observers in 1 party. Total party-hours 8.5 (2 on foot, 6.5 by car). Total party-miles 71 (3 on foot, 68 by car).

Pied-billed Grebe 1; Great Blue Heron 2; Canada Goose 1500; White-fronted Goose 150; Snow Goose (white morph) 8000; Snow Goose (blue morph) 400; Mallard 15,000; Pintail 3; American Wigeon 1000; Lesser Scaup 4; Common Merganser 150; Red-tailed Hawk 9; Rough-legged Hawk 11; Bald Eagle 5; Marsh Hawk 4; American Kestrel 9; Bobwhite 15; Ring-billed Gull 35; Rock Dove 15; Mourning Dove 6; Common (Yellow-shafted) Flicker 11; Red-bellied Woodpecker 4; Red-headed Woodpecker 1; Downy Woodpecker 8; Blue Jay 18; Common Crow 121; Carolina Chickadee 14; White-breasted Nuthatch 4; Eastern Bluebird 5; Loggerhead Shrike 7; Starling 65; House Sparrow 30; Eastern Meadowlark 92;

Red-winged Blackbird 1; Cardinal 13; Pine Siskin 5; American Goldfinch 15; Northern (Slate-colored) Junco 48; Tree Sparrow 30; Harris' Sparrow 29; White-crowned Sparrow 2; Fox Sparrow 2. Total 41 species; about 26,844 individuals. Seen in area during count period, but not on count day: Tufted Titmouse, Purple Finch.

Hilbert and Sylvia Albright (compiler—Box 258, Longton, KS 67352), J. Nichols.

Emporia. 38° 27' N, 96° 05' W. Center 1 mi. S Lang, as described in 1972. Habitat coverage: riparian forest 55 percent, grassland 20 percent, residential areas 8 percent, cultivated fields 5 percent, oldfields and fencerows 5 percent, lakes and rivers 3 percent, upland deciduous forest 2 percent, coniferous stands 1 percent, marsh 1 percent. Dec. 20, 1981. 6:30 a.m. to 5:30 p.m., 14°F to 30°F; wind SE, 15-25 m.p.h.; water partly open; no snow cover; overcast. Twenty-two observers in 11 parties. Total party-hours 88 (39 on foot, 49 by car) plus 4 hrs. owling. Total party-miles 566 (39 on foot, 527 by car) and 3 miles owling.

Pied-billed Grebe 1; Great Blue Heron 4; Snow Goose (white morph) 70; Mallard 8417; Gadwall 13; Pintail 8; American Wigeon 6; Redhead 1; Ring-necked Duck 6; Lesser Scaup 10; Common Goldeneye 46; White-winged Scoter 2 (excellent details—Ed.); Hooded Merganser 1 (excellent details—Ed.); Sharp-shinned Hawk 1; Cooper's Hawk 1; Red-tailed Hawk 88; Rough-legged Hawk 6; Golden Eagle 1; Bald Eagle 3; Marsh Hawk 111; Prairie Falcon 2; American Kestrel 27; Greater Prairie Chicken 54; Bobwhite 144; American Coot 1; Killdeer 7; Common Snipe 1; Ring-billed Gull 3; Rock Dove 331; Mourning Dove 199; Screech Owl 4; Great Horned Owl 11; Barred Owl 3; Long-eared Owl 13; Short-eared Owl 1; Belted Kingfisher 3; Common (Yellow-shafted) Flicker 64; Common (Red-shafted) Flicker 5; Pileated Woodpecker 1; Red-bellied Woodpecker 64; Red-headed Woodpecker 13; Yellow-bellied Sapsucker 10; Hairy Woodpecker 14; Downy Woodpecker 62; Horned Lark 246; Blue Jay 86; Common Crow 194; Black-capped Chickadee 445; Tufted Titmouse 28; White-breasted Nuthatch 36; Red-breasted Nuthatch 9; Brown Creeper 22; Winter Wren 2; Carolina Wren 4; Mockingbird 7; American Robin 18; Hermit Thrush 1 (excellent details—Ed.); Eastern Bluebird 8; Golden-crowned Kinglet 19; Cedar Waxwing 9; Loggerhead Shrike 9; Starling 16,368; House Sparrow 4511; Eastern Meadowlark 133; *Sturnella* sp. 111; Red-winged Blackbird 4622; Rusty Blackbird 6; Brewer's Blackbird 20; Common Grackle 11; Brown-headed Cowbird 1881; Cardinal 217; Common Redpoll 1 (excellent details—Ed.); Pine Siskin 22; American Goldfinch 179; Red Crossbill 25; Rufous-sided Towhee 7; Northern (Slate-colored) Junco 825; Northern (Oregon) Junco 2; Tree Sparrow 941; Harris' Sparrow 268; White-crowned Sparrow 12; White-throated Sparrow 9; Fox Sparrow 3; Lincoln's Sparrow 8; Song Sparrow 25; Lapland Longspur 479. Total 83 species (2 additional subspecies); about 41,662 individuals. Seen in area during count period, but not on count day: Common Loon (excellent details—Ed.), Eared Grebe (excellent details—Ed.), Common Merganser.

D. Blew, B. Fletcher, C. Hall, M. Headrick, L. Herbert, M. Kuehn, Dorothy and Richard Laird, Gil and Marie Leisman, F. Lunsford, D. Milsap, D. Mitchell, D. Neufeld, J. Parrish, T. Reeder, Ed. Margaret and Jean Schulenberg (compiler—RR 1, Admire, KS 66830), M. Schwilling, K. Tabor, D. Williamson.

Fostoria. 39° 30' N, 96° 30' W. Center Fostoria, KS. Habitat coverage: grassland 50 percent, cultivated fields 13 percent, oldfields and fencerows 30 percent, upland deciduous forest 6 percent, lakes and rivers 1 percent. Dec. 29, 1981. 8 a.m. to 4:30 p.m.; 12°F to 36°F; wind S-SW, 8-10 m.p.h.; water frozen; clear to partly cloudy. Four observers in 1 party. Total party hours 8.5 (2 on foot, 6.5 by car). Total party-miles 46 (4 on foot, 42 by car).

Mallard 9; Sharp-shinned Hawk 3; Red-tailed Hawk 16; Rough-legged Hawk 2; Golden Eagle 1; Bald Eagle 1; Marsh Hawk 17; American Kestrel 5; Ring-necked Pheasant 4; Mourning Dove 11; Great Horned Owl 1; Belted Kingfisher 3; Common (Yellow-shafted) Flicker 28; Common (Red-shafted) Flicker 1; Red-bellied Woodpecker 5; Red-headed Woodpecker 18;

Yellow-bellied Sapsucker 2; Hairy Woodpecker 2; Downy Woodpecker 5; Horned Lark 26; Blue Jay 210; Common Crow 460; Black-capped Chickadee 32; Tufted Titmouse 27; White-breasted Nuthatch 18; American Robin 450; Eastern Bluebird 32; Loggerhead Shrike 2; Starling 800; House Sparrow 850; Eastern Meadowlark 46; Red-winged Blackbird 165; Brown-headed Cowbird 21; Cardinal 73; American Goldfinch 135; Northern (Slate-colored) Junco 480; Northern (Oregon) Junco 22; Tree Sparrow 636; Harris' Sparrow 260. Total 38 species (2 additional subspecies); about 4,880 individuals. Seen in area during count period, but not on count day: Greater Prairie Chicken, Bobwhite, Winter Wren, Pine Siskin.

Bernard and Rowena Plummer, Eunice (compiler—Box 5, Fostoria, KS 66426) and Howard Webster.

Halstead-Newton. 38° 04' N, 97° 28' W. Center 5.75 mi. NE Halstead. Habitat coverage: riparian woodland 29 percent, oldfields and fencerows 18 percent, cultivated fields 18 percent, grassland 12 percent, upland deciduous forest 12 percent, residential areas 8 percent, rivers, streams and ponds 3 percent. Dec. 19, 1981. 7:05 a.m. to 5:20 p.m.; 9°F to 30°F; wind SE, 6-15 m.p.h.; water mostly frozen; trace of snow cover; clear. Twenty-five observers in 8 parties. Total party-hours 61 (30 on foot, 31 by car). Total party-miles 344.5 (39.5 by foot, 305 by car).

Great Blue Heron 1; Mallard 2; Sharp-shinned Hawk 1; Cooper's Hawk 1; Red-tailed Hawk 34; Rough-legged Hawk 10; *Buteo* sp. 14; Marsh Hawk 5; Prairie Falcon 3 (excellent details—Ed.); American Kestrel 35; Bobwhite 68; Ring-necked Pheasant 19; Killdeer 7; Common Snipe 10; Rock Dove 125; Mourning Dove 44; Great Horned Owl 11; Short-eared Owl 1 (excellent details—Ed.); Belted Kingfisher 5; Common (Yellow-shafted) Flicker 19; Common (Red-shafted) Flicker 7; Common Flicker ssp. 20; Red-bellied Woodpecker 20; Yellow-bellied Sapsucker 1; Hairy Woodpecker 9; Downy Woodpecker 25; Horned Lark 3502; Blue Jay 97; Common Crow 1400; Black-capped Chickadee 303; Tufted Titmouse 6; White-breasted Nuthatch 11; Red-breasted Nuthatch 1; Brown Creeper 6; Winter Wren 1; American Robin 117; Eastern Bluebird 7; Townsend's Solitaire 1; Cedar Waxwing 10; Loggerhead Shrike 7; Starling 9233; House Sparrow 1349; *Sturnella* sp. 392; Red-winged Blackbird 953; Rusty Blackbird 3; Common Grackle 4; Brown-headed Cowbird 67; Cardinal 78; Pine Siskin 81; American Goldfinch 85; Red Crossbill 1 (excellent details—Ed.); Rufous-sided Towhee 8; Northern (Slate-colored) Junco 462; Tree Sparrow 468; Harris' Sparrow 588; Song Sparrow 15; Lapland Longspur 11. Total 54 species (1 additional subspecies); about 19,764 individuals.

B. Akin, V. Claassen, R. Fritz, R. Galle, P. G. Jantzen, P. Janzen, M. Mathies, D. Minter, B. Nelson, J. Newton, N. Pankratz, M. Pauls, W. Pauls, D. Platt (compiler—RFD 2, Box 209, Newton, KS 67114), J. Prine, B. Reiger, J. Reiger, R. H. Schmidt, C. Schwab, J. Torline, M. Voth, N. Voth, B. Waltner, J. Wulf, J. A. Yoder (Harvey County Natural History Association).

Hays. 38° 47' N, 99° 23' W. Center 3.5 mi. S, 4 mi. W of Hays. Habitat coverage: not given. Dec. 19, 1981. 8 a.m. to 5:30 p.m.; 3°F to 27°F; wind SE to SW, 5-10 m.p.h.; water frozen; no snow cover; mostly cloudy. Fourteen observers in 6 parties. Total party-hours 25 (10 on foot, 15 by car) plus 16 hrs. at feeders. Total party-miles 278 (22 on foot, 256 by car).

Great Blue Heron 3; White-fronted Goose 16; Mallard 100; Sharp-shinned Hawk 1; Red-tailed Hawk 11; Rough-legged Hawk 3; Ferruginous Hawk 2; Marsh Hawk 4; Prairie Falcon 2; American Kestrel 9; Ring-necked Pheasant 60; Common Snipe 3; Rock Dove 586; Mourning Dove 2; Screech Owl 1; Great Horned Owl 3; Belted Kingfisher 3; Common (Yellow-shafted) Flicker 7; Common (Red-shafted) Flicker 7; Common Flicker ssp. 26; Red-bellied Woodpecker 2; Yellow-bellied Sapsucker 2; Hairy Woodpecker 13; Downy Woodpecker 17; Horned Lark 3272; Blue Jay 11; Black-billed Magpie 3; Common Crow 188; Black-capped Chickadee 48; White-breasted Nuthatch 7; Red-breasted Nuthatch 12; Brown Creeper 13; Brown Thrasher 1; American Robin 281; Eastern Bluebird 2; Townsend's Solitaire 7; Golden-crowned Kinglet 2; Ruby-crowned Kinglet 6; Cedar Waxwing 9;

Starling 832; House Sparrow 1366; Western Meadowlark 191; Red-winged Blackbird 477; Common Grackle 2; Cardinal 26; Evening Grosbeak 2; Purple Finch 12; House Finch 32; Pine Siskin 36; American Goldfinch 75; Northern (Slate-colored) Junco 72; Northern (Oregon) Junco 30; Northern Junco ssp. 42; Tree Sparrow 139; Harris' Sparrow 140; White-crowned Sparrow 7; Song Sparrow 7; Lapland Longspur 6520. Total 54 species (2 additional subspecies); about 14,753 individuals.

E. Carlson, D. Cooper (compiler—2906 Walnut, Hays, KS 67601), G. Dies, C. Ely, G. Ernsting, C. Ginther, T. Labedz, W. Macy, C. Nicholas, A. L. Steele, M. Sterns, Gale and Tricia Teller, E. Wiesner.

Junction City. 39° 02' N, 96° 50' W. Center I-70 roadside part W Junction City. Habitat coverage: grassland 22 percent, lakes and rivers 18 percent, cultivated fields 15 percent, upland deciduous forest 12 percent, riparian forest 10 percent, fencerows and oldfields 10 percent, coniferous stands 10 percent, residential areas 2 percent, marsh 1 percent. Dec. 27, 1981. 4 a.m. to 5 p.m., 15°F to 39°F; wind N, 10 m.p.h.; water partly frozen, overcast. Sixteen observers in 8 parties. Total party-hours 51 (22 on foot, 29 by car) plus 2 hrs. owling and 1 hr. at feeders. Total party-miles 273 (23 on foot, 250 by car) and 4 miles owling.

Horned Grebe 1; Pied-billed Grebe 1; Double-crested Cormorant 3; Great Blue Heron 10; Canada Goose 87; Mallard 2035; Gadwall 41; Pintail 5; Am. Green-winged Teal 1; American Wigeon 3; Redhead 2; Common Goldeneye 85; Bufflehead 19; Hooded Merganser 2; Common Merganser 125; Sharp-shinned Hawk 5; Red-tailed Hawk 55; Red-tailed (Harlan's) Hawk 8; Rough-legged Hawk 4; Bald Eagle 6; Marsh Hawk 32; Prairie Falcon 2; American Kestrel 24; Greater Prairie Chicken 100; Bobwhite 54; Ring-necked Pheasant 16; American Coot 8; Common Snipe 1; Herring Gull 32; Ring-billed Gull 546; Rock Dove 45; Mourning Dove 23; Screech Owl 1; Great Horned Owl 7; Barred Owl 1; Belted Kingfisher 13; Common (Yellow-shafted) Flicker 41; Common (Red-shafted) Flicker 10; Common Flicker ssp. 40; Red-bellied Woodpecker 53; Red-headed Woodpecker 28; Yellow-bellied Sapsucker 4; Hairy Woodpecker 23; Downy Woodpecker 48; Horned Lark 35; Blue Jay 394; Common Crow 309; Black-capped Chickadee 329; Tufted Titmouse 21; White-breasted Nuthatch 34; Red-breasted Nuthatch 16; Brown Creeper 7; Carolina Wren 4; Marsh Wren 2; Mockingbird 1; American Robin 179; Hermit Thrush 1; Eastern Bluebird 78; Townsend's Solitaire 3; Golden-crowned Kinglet 19; Cedar Waxwing 9; Loggerhead Shrike 4; Starling 926; Yellow-rumped (Myrtle) Warbler 3; House Sparrow 796; Eastern Meadowlark 70; Western Meadowlark 2; *Sturnella* sp. 136; Red-winged Blackbird 1656; Brewer's Blackbird 5; Brown-headed Cowbird 72; Cardinal 345; Evening Grosbeak 6; Pine Siskin 167; American Goldfinch 120; Red Crossbill 12; Rufous-sided Towhee 5; Northern (Slate-colored) Junco 1249; Northern (Oregon) Junco 51; Northern Junco ssp. 2; Tree Sparrow 2369; Field Sparrow 9; Harris' Sparrow 540; White-crowned Sparrow 3; White-throated Sparrow 1; Fox Sparrow 1; Lincoln's Sparrow 4; Song Sparrow 6. Total 82 species (3 additional subspecies); about 13,642 individuals. Seen in area during count period, but not on count day: Black Duck, Purple Finch, Vesper Sparrow (excellent details—Ed.).

C. Best, L. Combs, K. Davis, E. Finck, M. Gray, J. Hawes, D. Larson, John and Bob LaShelle (compiler—834½ W. 4th, Junction City, KS 66441), Eulalia and Gene Lewis, C. and J. Reynolds, N. Schanker, M. Schwilling, J. Zimmerman.

Kanopolis Reservoir. 38° 37' N, 97° 57' W. Center 1.3 mi. W corner of Saline, McPherson and Ellsworth Counties. Habitat coverage: grassland 55 percent, cultivated fields 30 percent, oldfields and fencerows 5 percent; lakes and rivers 4 percent, riparian woodland 3 percent, upland deciduous forest 1 percent, residential areas 1 percent, marsh 1 percent. Jan. 2, 1982. 6:30 a.m. to 5:30 p.m., 20°F to 35°F; wind S, 0-15 m.p.h.; water partly frozen; light snow shower in early A.M.; overcast A.M., clearing P.M. Four observers in 2 parties. Total party-hours 19 (7 on foot, 12 by car) plus 1 hr. owling. Total party-miles 149 (9 on foot, 140 by car) and 0.5 miles owling.

Great Blue Heron 6; Canada Goose 2200; Mallard 5400; Gadwall 38; Pintail 1; American Wigeon 2; Redhead 1; Ring-necked Duck 4; Common Goldeneye 21; Common Merganser 1900; Red-tailed Hawk 27; Rough-legged Hawk 1; Bald Eagle 6; Marsh Hawk 33; Prairie Falcon 3; American Kestrel 14; Greater Prairie Chicken 8; Ring-necked Pheasant 3; Herring Gull 100; Ring-billed Gull 523; Mourning Dove 11; Screech Owl 2; Great Horned Owl 7; Belted Kingfisher 7; Common (Yellow-shafted) Flicker 27; Common (Red-shafted) Flicker 1; Red-bellied Woodpecker 17; Yellow-bellied Sapsucker 1; Hairy Woodpecker 3; Downy Woodpecker 16; Horned Lark 274; Blue Jay 11; Common Crow 16; Black-capped Chickadee 64; White-breasted Nuthatch 2; Brown Creeper 2; Winter Wren 1; American Robin 55; Eastern Bluebird 4; Townsend's Solitaire 2; Golden-crowned Kinglet 1; Cedar Waxwing 3; Loggerhead Shrike 5; Starling 2070; House Sparrow 205; Eastern Meadowlark 1; Western Meadowlark 385; Red-winged Blackbird 75; Rusty Blackbird 1; Common Grackle 2; Brown-headed Cowbird 21; Cardinal 19; Common Redpoll 3; Pine Siskin 24; American Goldfinch 25; Rufous-sided Towhee 1; Northern (Slate-colored) Junco 187; Northern (Oregon) Junco 1; Tree Sparrow 6431; Harris' Sparrow 124; Swamp Sparrow 1; Song Sparrow 40. Total 60 species (2 additional subspecies); about 20,439 individuals.

L. Combs, Dan and John LaShelle, T. Shane (compiler—2136 Wesley, Salina, KS 67401).

Kansas City. 39° 03'N, 94° 45'W. Center Morris, KS. Habitat coverage: lakes and rivers 28 percent, residential areas 25 percent, upland deciduous forest 20 percent, oldfields and fencerows 10 percent, riparian forest 7 percent, grassland 5 percent, coniferous stands 3 percent, marsh 2 percent. Dec. 26, 1981. 5:30 a.m. to 5 p.m., 23°F to 38°F; wind W to WNW, 5-15 m.p.h.; partly cloudy A.M., mostly clear P.M. Thirty observers in 10 parties. Total party-hours 79 (30 on foot, 49 by car) plus 5 hrs. owling and 13 hrs. at feeders. Total party-miles 396 (33 on foot, 363 by car) and 23 miles owling.

Pied-billed Grebe 2; Double-crested Cormorant 1; Great Blue Heron 4; Canada Goose 184; White-fronted Goose 1; Snow Goose (white morph) 2; Mallard 4150; Gadwall 56; Pintail 2; American Wigeon 2; Redhead 4; Ring-necked Duck 7; Canvasback 1; Lesser Scaup 3; Common Goldeneye 40; Bufflehead 1; Hooded Merganser 9; Common Merganser 72; Sharp-shinned Hawk 2; Red-tailed Hawk 142; Red-tailed (Harlan's) Hawk 1; *Buteo* sp. 3; Bald Eagle 19; Marsh Hawk 2; American Kestrel 60; Bobwhite 33; Ring-necked Pheasant 1; American Coot 4; Killdeer 3; Herring Gull 1; Ring-billed Gull 344; Rock Dove 413; Mourning Dove 202; Screech Owl 5; Great Horned Owl 15; Barred Owl 1; Belted Kingfisher 6; Common (Yellow-shafted) Flicker 83; Common (Red-shafted) Flicker 1; Red-bellied Woodpecker 64; Red-headed Woodpecker 136; Yellow-bellied Sapsucker 5; Hairy Woodpecker 11; Downy Woodpecker 134; Horned Lark 134; Blue Jay 560; Common Crow 779; Black-capped Chickadee 493; Tufted Titmouse 157; White-breasted Nuthatch 21; Red-breasted Nuthatch 32; Brown Creeper 15; Winter Wren 1; Mockingbird 30; American Robin 38; Eastern Bluebird 38; Golden-crowned Kinglet 10; Ruby-crowned Kinglet 1; Cedar Waxwing 16; Starling 2470; Yellow-rumped (Myrtle) Warbler 29; House Sparrow 1204; Eastern Meadowlark 31; Western Meadowlark 3; *Sturnella* sp. 57; Red-winged Blackbird 186; Rusty Blackbird 3; Common Grackle 40; Cardinal 503; Purple Finch 54; Pine Siskin 86; American Goldfinch 287; Red Crossbill 8; Rufous-sided Towhee 3; Northern (Slate-colored) Junco 1262; Tree Sparrow 549; Field Sparrow 9; Harris' Sparrow 12; White-crowned Sparrow 3; White-throated Sparrow 8; Fox Sparrow 1; Swamp Sparrow 2; Song Sparrow 45; Lapland Longspur 22. Total 80 species (2 additional subspecies); about 15,434 individuals. Seen in area during count period, but not on count day: Black Duck, Loggerhead Shrike.

Arlie and Mel Cooksey (compiler—5700 Blackhoof Tr., Merriam, KS 66203), P. Devine, R. Fisher, H. Gregory, C. Hobbs, N. Johnson, P. Kaul, S. Kelly, Ardy and George Kester, K. Lisher, F. Lowe, C. McGuire, E. McHugh, C. McMillen, L. Moore, J. Overton, R. Parker, S. Patti, Tom and Marla Porter, T. Reeder, Lucille and Walter Ross, F. Schmidt, K. Sink, C. Swink, P. Watson, S. Wilson.

Kingman Wildlife Area. 37° 38' N, 98° 16' W. Center headquarters, Kingman Wildlife Area, KS. Habitat coverage: riparian woodland 40 percent, grassland 40 percent, cultivated fields 20 percent. Jan. 2, 1982. 7:30 a.m. to 5 p.m., 12°F to 30°F; wind NW, 10-15 m.p.h.; some open water; no snow cover; partly cloudy to overcast. Twelve observers in 3 parties. Total party-hours 24 (8 on foot, 16 by car). Total party-miles 153 (12 on foot, 141 by car).

Great Blue Heron 5; Canada Goose 222; Mallard 140; Redhead 3; Ring-necked Duck 9; Common Goldeneye 1; Bufflehead 1; Common Merganser 5; Sharp-shinned Hawk 3; Cooper's Hawk 1; Red-tailed Hawk 31; Rough-legged Hawk 5; Marsh Hawk 27; Prairie Falcon 2; American Kestrel 23; Bobwhite 4; Ring-necked Pheasant 2; Turkey 1; American Coot 7; Ring-billed Gull 4; Rock Dove 13; Mourning Dove 1; Screech Owl 1; Great Horned Owl 5; Belted Kingfisher 7; Common (Yellow-shafted) Flicker 18; Common (Red-shafted) Flicker 3; Red-bellied Woodpecker 9; Yellow-bellied Sapsucker 1; Hairy Woodpecker 3; Downy Woodpecker 17; Horned Lark 207; Blue Jay 8; Common Crow 86; Black-capped Chickadee 71; White-breasted Nuthatch 2; Brown Creeper 1; Mockingbird 1; Brown Thrasher 1; American Robin 34; Eastern Bluebird 12; Golden-crowned Kinglet 1; Loggerhead Shrike 3; Starling 297; House Sparrow 521; Eastern Meadowlark 307; Western Meadowlark 63; Red-winged Blackbird 198,295; Common Grackle 312; Brown-headed Cowbird 15; Cardinal 60; Pine Siskin 28; American Goldfinch 20; Rufous-sided Towhee 3; Northern (Slate-colored) Junco 487; Northern (Oregon) Junco 51; Tree Sparrow 1113; Harris' Sparrow 298; White-crowned Sparrow 2; Fox Sparrow 1; Song Sparrow 26; Lapland Longspur 1670. Total 60 species (2 additional subspecies); about 204,570 individuals. Seen in area during count period, but not on count day: Bald Eagle.

J. Boyer, K. Brunson, Mary and Randy Clark, L. Combs, V. Conrady, K. Everly, W. Hawkins, Byron (compiler—Kingman Wildlife Area, Penalsosa, KS 67121) and June Walker, R. Wood.

Lawrence. 39° 00' N, 95° 18' W. Center 1.5 mi. N, 2.7 mi. W Jct. US-40 and US-59 in NW Lawrence. Habitat coverage: cultivated fields 19 percent, residential areas 16 percent, oldfields and fencerows 15 percent, riparian forest 14 percent, upland deciduous forest 13 percent, lakes and rivers 10 percent, grassland 8 percent, coniferous stands 5 percent. Dec. 20, 1981. 2:15 a.m. to 5:30 p.m., 12 F to 35 F; wind E to S, 5-25 m.p.h.; water partly open, 1" snow cover; clear early A.M., overcast by late P.M. Twenty-four observers in 10 parties. Total party-hours 78 (23 on foot, 54 by car, 1 by plane) plus 6 hrs. owling. Total party-miles 550 (25 on foot, 465 by car, 60 by plane) and 62 miles owling.

Pied-billed Grebe 2; Great Blue Heron 1; Canada Goose 201; Snow Goose (white morph) 500; Snow Goose (blue morph) 70; Mallard 4144; Gadwall 26; Pintail 2; American Wigeon 2; Wood Duck 1 (excellent details—Ed.); Redhead 25; Ring-necked Duck 2; Lesser Scaup 141; Common Goldeneye 50; Common Merganser 1231; Sharp-shinned Hawk 1; Cooper's Hawk 1; *Accipiter* sp. 1; Red-tailed Hawk 112; Red-tailed (Harlan's) Hawk 1; Rough-legged Hawk 5; *Buteo* sp. 5; Bald Eagle 32; Marsh Hawk 17; Prairie Falcon 1 (excellent details—Ed.); American Kestrel 48; Bobwhite 35; Killdeer 2; Herring Gull 113; Ring-billed Gull 386; *Larus* sp. 75; Rock Dove 331; Mourning Dove 30; Screech Owl 10; Great Horned Owl 16; Banded Owl 1; Belted Kingfisher 5; Common (Yellow-shafted) Flicker 46; Common (Red-shafted) Flicker 5; Common Flicker ssp. 5; Red-bellied Woodpecker 52; Red-headed Woodpecker 73; Yellow-bellied Sapsucker 1; Hairy Woodpecker 12; Downy Woodpecker 60; Horned Lark 697; Blue Jay 192; Common Crow 152; Black-capped Chickadee 290; Tufted Titmouse 42; White-breasted Nuthatch 11; Red-breasted Nuthatch 7; Brown Creeper 7; House Wren 1 (excellent details—Ed.); Carolina Wren 1; Mockingbird 4; Brown Thrasher 1; American Robin 12; Eastern Bluebird 27; Golden-crowned Kinglet 13; Cedar Waxwing 28; Loggerhead Shrike 19; Starling 2002; Yellow-rumped (Myrtle) Warbler 2; House Sparrow 948; Eastern Meadowlark 135; *Sturnella* sp. 271; Red-winged Blackbird 1969; Rusty Blackbird 1056; Common Grackle 50; Brown-headed Cowbird 21; Cardinal 267; Purple Finch 5; Pine Siskin 535; American Goldfinch 298; Rufous-sided Towhee 4; Northern

(Slate-colored) Junco 1508; Northern (Oregon) Junco 81; Northern Junco ssp. 333; Tree Sparrow 1148; Field Sparrow 1; Harris' Sparrow 110; White-crowned Sparrow 2; White-throated Sparrow 7; Fox Sparrow 4; Lincoln's Sparrow 5; Swamp Sparrow 7; Song Sparrow 56; Lapland Longspur 53. Total 79 species (3 additional subspecies); about 20,262 individuals.

M. Allen, B. Bergstrom, R. Boyd, L. Brunson, C. Cink, C. Estes, R. Fauhl, H. S. Fitch, R. Fleischer, D. Herrin, J. Honacki, K. Kindscher, R. Leon, G. Pittman, B. Rhodes, D. Seibel (compiler—Museum of Natural History, Univ. Kansas, Lawrence, KS 66045), D. Sharp, Cynthia and Ed Shaw, M. Shelton, A. Standing, G. Walters, John and Linda Zempel (Jayhawk Audubon Society).

Linn County. 38° 11' N, 94° 46' W. Center SW corner Unit G, Marais des Cygnes Wildlife Area, 2 mi. W, 0.5 mi. N of Boicourt, KS. Habitat coverage: lakes and streams 35 percent, cultivated fields 25 percent, riparian forest 25 percent, marsh 10 percent, residential areas 5 percent. Dec. 29, 1981. 8 a.m. to 5:30 p.m., 12°F to 30°F; wind SE to SSW, 10 m.p.h. Seven observers in 2 parties. Total party-hours 20 (3 on foot, 17 by car) plus 1 hr. owling and 5 hrs. at feeders. Total party-miles 170 (4 on foot, 166 by car) and 0.5 miles owling.

Double-crested Cormorant 1; Great Blue Heron 11; Canada Goose 411; Snow Goose (white morph) 2288; Snow Goose (blue morph) 220; Mallard 14,612; Black Duck 3; Gadwall 37; Pintail 45; American Wigeon 8; Redhead 4; Ring-necked Duck 10; Canvasback 1; Lesser Scaup 34; Common Goldeneye 138; Bufflehead 1; Hooded Merganser 3; Common Merganser 4; Sharp-shinned Hawk 1; Cooper's Hawk 2; Red-tailed Hawk 57; Rough-legged Hawk 6; Bald Eagle 3; Marsh Hawk 5; American Kestrel 16; American Coot 4; Herring Gull 159; Ring-billed Gull 367; Rock Dove 57; Mourning Dove 71; Screech Owl 1; Great Horned Owl 7; Barred Owl 3; Belted Kingfisher 1; Common (Yellow-shafted) Flicker 21; Common (Red-shafted) Flicker 1; Pileated Woodpecker 4; Red-bellied Woodpecker 24; Red-headed Woodpecker 67; Yellow-bellied Sapsucker 1; Hairy Woodpecker 3; Downy Woodpecker 32; Horned Lark 2; Blue Jay 82; Common Crow 112; Black-capped Chickadee 79; Tufted Titmouse 41; White-breasted Nuthatch 10; Brown Creeper 2; Carolina Wren 2; Mockingbird 8; American Robin 3; Eastern Bluebird 11; Golden-crowned Kinglet 5; Cedar Waxwing 11; Loggerhead Shrike 9; Starling 312; Yellow-rumped (Myrtle) Warbler 2; Common Yellowthroat 1 (excellent details—Ed.); House Sparrow 328; Eastern Meadowlark 66; Western Meadowlark 34; *Sturnella* sp. 58; Red-winged Blackbird 116; Rusty Blackbird 25; Common Grackle 50; Cardinal 123; Pine Siskin 2; American Goldfinch 69; Northern (Slate-colored) Junco 185; Northern (Oregon) Junco 4; Tree Sparrow 291; Field Sparrow 1; Harris' Sparrow 40; White-crowned Sparrow 10; White-throated Sparrow 3; Fox Sparrow 1; Lincoln's Sparrow 15; Swamp Sparrow 68; Song Sparrow 32. Total 176 species (2 additional subspecies); about 20,957 individuals.

Ivan and Margaret Boyd, R. Boyd, Barbara (compiler—Rt. 2, Boicourt, Pleasanton, KS 66075) and Martin Pressgrove, L. Reynolds, F. Woods.

Manhattan. 39° 11' N, 96° 34' W. Center Anderson Hall, Kansas State University campus. Habitat coverage: riparian forest 30 percent, oldfields and fencerows 16 percent, grassland 15 percent, lakes and rivers 15 percent, upland deciduous forest 10 percent, cultivated fields 7 percent, residential areas 3 percent, coniferous stands 2 percent, marsh 2 percent. Dec. 19, 1981. 4 a.m. to 5:30 p.m.; 4°F to 20°F; wind E, 0-10 m.p.h.; waters partly open; 1-2" snow cover; clear A.M., mostly clear P.M. Ninety observers in 19 parties. Total party-hours 193 (125 on foot, 60 by car, 8 by canoe) plus 6 hrs. owling and 2 hrs. at feeders. Total party-miles 627.5 (101.5 on foot, 508 by car, 18 by canoe) and 71 miles owling.

Common Loon 2; Horned Grebe 1; Double-crested Cormorant 13; Great Blue Heron 16; Canada Goose 14; Snow Goose (white morph) 11; Snow Goose (blue morph) 1; Mallard 20,654; Gadwall 119; Pintail 2; Am. Green-winged Teal 28; Blue-winged Teal 3; American Wigeon 24; Redhead 27; Ring-necked Duck 3; Lesser Scaup 6; Common Goldeneye 109; Bufflehead 4; Hooded Merganser 14; Common Merganser 2651; Goshawk 1 (good details—Ed.); Sharp-shinned Hawk 4;

Cooper's Hawk 1; Red-tailed Hawk 98; Red-tailed (Harlan's) Hawk 9; Rough-legged Hawk 13; Bald Eagle 29; Marsh Hawk 86; Osprey 1 (good details—Ed.); Prairie Falcon 1; Peregrine 1 (excellent details—Ed.); Merlin 3; American Kestrel 39; Greater Prairie Chicken 106; Bobwhite 638; Ring-necked Pheasant 43; American Coot 4; Killdeer 2; Common Snipe 2; Glaucous Gull 1 (good details—Ed.); Herring Gull 66; Ring-billed Gull 1895; Bonaparte's Gull 1 (good details—Ed.); Rock Dove 866; Mourning Dove 189; Screech Owl 4; Great Horned Owl 12; Barred Owl 10; Short-eared Owl 1; Belted Kingfisher 20; Common (Yellow-shafted) Flicker 160; Common (Red-shafted) Flicker 21; Common Flicker ssp. 59; Red-bellied Woodpecker 157; Red-headed Woodpecker 338; Yellow-bellied Sapsucker 15; Hairy Woodpecker 23; Downy Woodpecker 182; Horned Lark 140; Blue Jay 775; Common Crow 902; Black-capped Chickadee 1243; Tufted Titmouse 115; White-breasted Nuthatch 114; Red-breasted Nuthatch 12; Brown Creeper 27; Winter Wren 2; Bewick's Wren 2; Carolina Wren 2; Mockingbird 6; Brown Thrasher 1; American Robin 4088; Eastern Bluebird 82; Golden-crowned Kinglet 38; Cedar Waxwing 35; Loggerhead Shrike 5; Starling 26,335; Yellow-rumped (Myrtle) Warbler 10; House Sparrow 1384; Eastern Meadowlark 2; Western Meadowlark 175; *Sturnella* sp. 453; Yellow-headed Blackbird 1 (fair details—Ed.); Red-winged Blackbird 135; Rusty Blackbird 21; Brewer's Blackbird 26; Common Grackle 107; Brown-headed Cowbird 21; Cardinal 848; Evening Grosbeak 1; Purple Finch 3; Pine Siskin 54; American Goldfinch 471; Rufous-sided Towhee 28; Vesper Sparrow 2 (excellent details—Ed.); Northern (Slate-colored) Junco 5388; Northern (Oregon) Junco 22; Tree Sparrow 3739; Field Sparrow 123; Harris' Sparrow 584; White-crowned Sparrow 25; White-throated Sparrow 5; Fox Sparrow 2; Lincoln's Sparrow 22; Swamp Sparrow 3; Song Sparrow 134; Lapland Longspur 4. Total 101 species (3 additional subspecies); about 76,519 individuals. Seen in area during count period, but not on count day: Golden Eagle, Hermit Thrush.

J. Arruda, L. Bareiss, Jim and Melia Barth, K. Becker, C. Best, B. Broyles, T. Campbell, R. Carter, B. Dale, R. DiMaie, Max and Mike Donnelly, P. Dreese, Debbie and Ted Evans, I. Fallon, R. Faulk, P. Fay, Bob, Chamblee, Clyde and Lena Ferguson, E. Finck, N. Folland, R. Garrett, B. Gorton, Ben and Marion Gray, C. Greene, S. Hansen, J. Hawes, M. Hinton, L. Johnson, Don and Glennis Kaufman, L. Keegan, G. Kennedy, Duane and Gary Kerr, Pat and Robert Kinders, R. Klataske, A. Kwollek-Folland, J. Laflin, B. LaShelle, C. Lorenzen, B. Lowman, Carl, Dick and Erich Marzolf, M. McGinley, E. Morrison, J. Morton, M. Muenzenberger, R. Myers, C. Pacey, S. Peabody, M. Peterman, P. Pierce, M. Quinlan, G. Rice, Dave and Kathy Rintoul, M. Roschke, T. Ryan, D. Sampson, N. Schanker, G. Schiltz, C. Schuette, S. Schuler, M. Schwab, Christopher and Tom Shane, J. Shuman, Andrea and Chris Smith, G. Smith, S. Smith, M. Strafuss, D. Strammel, B. Taylor, M. Thouvenelle, Dana and Harvard Townsend, T. Warnock, Bob and Ellen Weide, Jan and John Zimmerman (compiler—Div. Biology, Kansas State Univ., Manhattan, KS 66506).

Olathe. 38° 52'N, 94° 50'W. Center Jct. US-56 and K7. Habitat coverage: upland deciduous forest 30 percent, cultivated fields 25 percent, lakes and creeks 21 percent, oldfields and fencerows 10 percent, residential areas 10 percent, grassland 4 percent. Jan. 2, 1982. 7:30 a.m. to 5 p.m., 30°F to 39°F; wind 0-15 m.p.h.; 0.5" snow cover; water frozen. Six observers in 3 parties. Total party-hours 20 (7 on foot, 13 by car). Total party-miles 152 (5 on foot, 147 by car).

Great Blue Heron 1; Red-tailed Hawk 16; Rough-legged Hawk 4; Marsh Hawk 1; American Kestrel 14; Bobwhite 18; Killdeer 1; Rock Dove 53; Mourning Dove 17; Great Horned Owl 6; Belted Kingfisher 1; Common (Yellow-shafted) Flicker 4; Red-bellied Woodpecker 10; Red-headed Woodpecker 9; Hairy Woodpecker 1; Downy Woodpecker 14; Horned Lark 24; Blue Jay 79; Common Crow 21; Black-capped Chickadee 92; Tufted Titmouse 16; White-breasted Nuthatch 1; Red-breasted Nuthatch 5; Mockingbird 3; American Robin 2; Loggerhead Shrike 2; Starling 250; House Sparrow 288; Eastern Meadowlark 15; *Sturnella* sp. 5; Cardinal 74; Pine Siskin 2; American Goldfinch 26; Red Crossbill 22; Northern (Slate-colored) Junco 173; Northern Junco ssp. 1; Tree Sparrow 208; Harris' Sparrow 7;

White-crowned Sparrow 9; Song Sparrow 8; Lapland Longspur 1. Total 39 species; about 1,482 individuals.

Ivan and Margaret Boyd, J. Bradley, C. Cink, S. Crawford (compiler—21465 W. 180th, Olathe, KS 66061), R. Rueggeger.

Oskaloosa-Perry Reservoir. 39° 12' N, 95° 24' W. Center entrance to Camp Jayhawk at the NE corner of Sec. 9, T-10-S, R-18-E. Habitat coverage: cultivated fields 33 percent, grassland 28 percent, oldfields and fencerows 20 percent, upland deciduous forest 9 percent, lakes and rivers 6 percent, residential areas 2 percent, riparian forest 1 percent, coniferous stands 1 percent. Jan. 1, 1982. 7 a.m. to 5:30 p.m., 11°F to 34°F; wind NW, 0-20 m.p.h.; 50 percent ice cover on reservoir, streams partly open, 0-1" snow cover; overcast with snow flurries. Ten observers in 4 parties. Total party-hours 40.5 (17 on foot, 23.5 by car) plus 1 hr. owling. Total party-miles 287.5 (12.5 on foot, 275 by car) and 18 miles owling.

Great Blue Heron 7; Canada Goose 276; Snow Goose (white morph) 1000; Snow Goose (blue morph) 420; Mallard 6500; Gadwall 5; Pintail 3; Am. Green-winged Teal 1; Lesser Scaup 4; Common Goldeneye 50; Common Merganser 2200; Red-breasted Merganser 2 (excellent details—Ed.); Red-tailed Hawk 49; Red-tailed (Kriider's) Hawk 1; Bald Eagle 37; Marsh Hawk 13; American Kestrel 19; Bob-white 27; Ring-necked Pheasant 1; American Coot 1; Common Snipe 1; Herring Gull 42; Ring-billed Gull 76; Rock Dove 20; Mourning Dove 13; Screech Owl 1; Great Horned Owl 5; Long-eared Owl 2 (by call—Ed.); Belted Kingfisher 4; Common (Yellow-shafted) Flicker 66; Common (Red-shafted) Flicker 4; Common Flicker ssp. 11; Red-bellied Woodpecker 31; Red-headed Woodpecker 92; Yellow-bellied Sapsucker 1; Hairy Woodpecker 4; Downy Woodpecker 49; Horned Lark 365; Blue Jay 138; Common Crow 123; Black-capped Chickadee 252; Tufted Titmouse 33; White-breasted Nuthatch 35; Red-breasted Nuthatch 1; Brown Creeper 2; Mockingbird 2; Brown Thrasher 1; American Robin 18; Eastern Bluebird 54; Golden-crowned Kinglet 5; Cedar Waxwing 39; Loggerhead Shrike 4; Starling 238; House Sparrow 521; Eastern Meadowlark 4; *Sturnella* sp. 11; Red-winged Blackbird 10; Brown-headed Cowbird 5; Cardinal 126; Pine Siskin 2; American Goldfinch 69; Savannah Sparrow 1 (excellent details—Ed.); Northern (Slate-colored) Junco 607; Northern (Oregon) Junco 2; Tree Sparrow 987; Field Sparrow 5; Harris' Sparrow 75; White-crowned Sparrow 1; Fox Sparrow 3; Song Sparrow 43; Lapland Longspur 350; Smith's Longspur 3 (good details—Ed.). Total 66 species (3 additional subspecies); about 15,173 individuals. Seen in area during count period, but not on count day: Pied-billed Grebe, Rough-legged Hawk, Turkey, Rufous-sided Towhee.

J. Brier, D. Larson, R. Lawson, Eugene and Eulalia Lewis, O. Rice, R. C. Rucker (compiler—1522 Tennessee, Lawrence, KS 66044), R. E. Rucker, R. Smith, E. Scully-West.

Pawnee-Rush Counties. 38° 21' N, 99° 26' W. Center Pawnee-Rush county line at Nekoma Rd. Habitat coverage: cultivated fields 50 percent, grassland 45 percent, oldfields and fencerows 4 percent, lakes and rivers 1 percent. Jan. 4, 1982. 9 a.m. to 5 p.m., 20°F to 45°F; wind SW, 0-20 m.p.h.; water mostly frozen; no snow cover; clear A.M., partly cloudy P.M. One observer in 1 party. Total party-hours 8 (0.5 by foot, 7.5 by car). Total party-miles 136 (1 on foot, 135 by car).

Mallard 5; American Wigeon 1; Red-tailed Hawk 16; Rough-legged Hawk 12; Ferruginous Hawk 1; Golden Eagle 1; Marsh Hawk 33; Prairie Falcon 2; Merlin 1; American Kestrel 9; Ring-necked Pheasant 90; Rock Dove 77; Mourning Dove 8; Great Horned Owl 10; Short-eared Owl 1; Common (Yellow-shafted) Flicker 1; Common (Red-shafted) Flicker 2; Common Flicker ssp. 1; Red-bellied Woodpecker 1; Hairy Woodpecker 1; Downy Woodpecker 3; Horned Lark 1730; Black-billed Magpie 15; Common Crow 42; Brown Creeper 1; Sage Thrasher 1 (photographed); Townsend's Solitaire 1; Starling 80; House Sparrow 250; Western Meadowlark 115; Red-winged Blackbird 40; Pine Siskin 5; American Goldfinch 1; Northern (Slate-colored) Junco 10; Northern (Oregon) Junco 43; Tree Sparrow 523; Harris' Sparrow 82; Song Sparrow 1; Lapland Longspur 150. Total 36 species (2 additional subspecies); about 3,366 individuals. Seen in area during count

period, but not on count day: Canada Goose, Bald Eagle, Sandhill Crane, Blue Jay, Loggerhead Shrike.

S. Seltman (compiler—Nekoma, KS 67559).

Pittsburg. 37° 23' N, 94° 41' W. Center Pittsburg State University (this year's count covered the Missouri sector of the circle for the first time). Habitat coverage: oldfields and strip-mined lands 40 percent, cultivated fields 20 percent, grassland 20 percent, riparian forest 10 percent, residential areas 7 percent, streams and ponds 3 percent. Dec. 19, 1981, 7:15 a.m. to 5:45 p.m., 5°F to 32°F; wind SE, 0-12 m.p.h.; water mostly frozen; no snow cover; clear. Twelve observers in 7 parties. Total party-hours 40 (23.5 on foot, 16.5 by car) and 12 hrs. at feeders. Total party-miles 257 (27 on foot, 230 by car).

Great Blue Heron 1; Canada Goose 90; Snow Goose (white morph) 92; Mallard 255; Pintail 27; Am. Green-winged Teal 4; Red-tailed Hawk 53; *Buteo* sp. 3; Marsh Hawk 13; American Kestrel 34; Greater Prairie Chicken 1; Bobwhite 103; Rock Dove 104; Mourning Dove 129; Great Horned Owl 7; Barred Owl 3; Belted Kingfisher 1; Common (Yellow-shafted) Flicker 47; Red-bellied Woodpecker 28; Red-headed Woodpecker 46; Hairy Woodpecker 1; Downy Woodpecker 19; Horned Lark 75; Blue Jay 124; Common Crow 56; Carolina Chickadee 77; Tufted Titmouse 43; White-breasted Nuthatch 2; Red-breasted Nuthatch 2; Brown Creeper 2; Carolina Wren 1; Mockingbird 11; Brown Thrasher 1; American Robin 12; Eastern Bluebird 16; Golden-crowned Kinglet 8; Loggerhead Shrike 8; Starling 1081; House Sparrow 446; Eastern Meadowlark 516; Red-winged Blackbird 454; Common Grackle 206; Brown-headed Cowbird 2263; Cardinal 141; American Goldfinch 28; Northern (Slate-colored) Junco 297; Tree Sparrow 92; Field Sparrow 102; Harris' Sparrow 3; White-crowned Sparrow 10; Song Sparrow 3. Total 50 species; about 7,141 individuals.

B. Boso, James, Mary Jo and Michael Chapman, C. Johnson, P. Jones, H. Menghini, Mike and Patty Mueller, J. Smardo, Dorothy and Theodore M. Sperry (compiler—1413 S. College, Pittsburg, KS 66762).

Pomona Reservoir. 38° 41' N, 95° 41' W. Center US-75 and Dragoon Creek. Habitat coverage: oldfields and fencerows 25 percent, riparian forest 22 percent, cultivated fields 18 percent, lakes and rivers 18 percent, grassland 10 percent, upland deciduous forest 4 percent, residential areas 3 percent. Dec. 20, 1981. 6 a.m. to 5:30 p.m., 20°F to 35°F; wind S, 9-15 m.p.h.; water mostly frozen; 0-2" snow cover; A.M. mostly cloudy, P.M. overcast. Fifteen observers in 5 parties. Total party-hours 41.5 (23.5 on foot, 18 by car) plus 1.5 hrs. owling. Total party-miles 251 (21 on foot, 230 by car) and 12 miles owling.

White Pelican 1 (injured); Great Blue Heron 6; Canada Goose 200; Snow Goose (white morph) 120; Snow Goose (blue morph) 30; Mallard 5656; Gadwall 26; Pintail 2; American Wigeon 6; Lesser Scaup 4; Common Goldeneye 69; Hooded Merganser 1 (excellent details—Ed.); Common Merganser 2000; Sharp-shinned Hawk 1; Red-tailed Hawk 44; Red-tailed (Harlan's) Hawk 1; Rough-legged Hawk 2; *Buteo* sp. 3; Bald Eagle 4; Marsh Hawk 21; Peregrine 1 (excellent details—Ed.); American Kestrel 22; Bobwhite 112; Killdeer 2; Common Snipe 2; Herring Gull 35; Ring-billed Gull 46; Mourning Dove 80; Screech Owl 1; Great Horned Owl 14; Barred Owl 1; Belted Kingfisher 3; Common (Yellow-shafted) Flicker 33; Common (Red-shafted) Flicker 3; Common Flicker ssp. 67; Red-bellied Woodpecker 54; Red-headed Woodpecker 25; Hairy Woodpecker 3; Downy Woodpecker 30; Horned Lark 50; Blue Jay 106; Common Crow 163; Black-capped Chickadee 334; Tufted Titmouse 16; White-breasted Nuthatch 38; Brown Creeper 13; Mockingbird 6; American Robin 127; Eastern Bluebird 34; Golden-crowned Kinglet 14; Loggerhead Shrike 14; Starling 806; House Sparrow 286; Eastern Meadowlark 1; Western Meadowlark 3; *Sturnella* sp. 178; Red-winged Blackbird 2280; Rusty Blackbird 200; Brewer's Blackbird 25; Common Grackle 10; Brown-headed Cowbird 225; Cardinal 142; American Goldfinch 57; Rufous-sided Towhee 2; Northern (Slate-colored) Junco 995; Northern (Oregon) Junco 2; Tree Sparrow 1812; Field Sparrow 1; Harris' Sparrow 53; White-crowned Sparrow 6; White-

throated Sparrow 3; Fox Sparrow 5; Song Sparrow 19. Total 67 species (3 additional subspecies); about 16,757 individuals.

Bob and Carol Culbertson, L. Drees, B. Johnson, S. Kingswood (compiler—Sedgwick County Zoo, 5555 Zoo Blvd., Wichita, KS 67212), B. Kocour, E. M. and E. R. Lewis, T. Lincoln, Eveln and Ken Redman, Bob and Mary Rucker, R. Smith, B. Wells.

Salina. 39° 02' N, 98° 03' W. Center Jct. Crawford and 9th streets. Habitat coverage: upland deciduous forest 20 percent, cultivated fields 20 percent, residential areas 20 percent, riparian forest 15 percent, grassland 15 percent, oldfields and fencerows 10 percent. Dec. 20, 1981. 7:30 a.m. to 5 p.m., 25°F to 37°F; wind S, 5-20 m.p.h.; little open water; no snow cover. Twenty-six observers in 5 parties. Total party-hours 43 (25 on foot, 18 by car). Total party-miles 245 (15 on foot, 230 by car).

Pied-billed Grebe 1; Great Blue Heron 1; Canada Goose 57; Mallard 3; Pintail 1; Canvasback 1; Common Goldeneye 8; Cooper's Hawk 1; Red-tailed Hawk 51; Rough-legged Hawk 17; Marsh Hawk 45; Prairie Falcon 1; Peregrine 1 (no details—Ed.); American Kestrel 15; Greater Prairie Chicken 60; Bobwhite 57; Ring-necked Pheasant 18; Killdeer 2; Rock Dove 845; Mourning Dove 1; Great Horned Owl 2; Belted Kingfisher 5; Common (Yellow-shafted) Flicker 25; Common (Red-shafted) Flicker 6; Red-bellied Woodpecker 34; Yellow-bellied Sapsucker 1; Hairy Woodpecker 9; Downy Woodpecker 30; Horned Lark 2176; Blue Jay 10; Black-billed Magpie 3; Common Crow 87; Black-capped Chickadee 276; Tufted Titmouse 5; White-breasted Nuthatch 3; Red-breasted Nuthatch 1; Brown Creeper 3; Mockingbird 2; Brown Thrasher 2; American Robin 263; Townsend's Solitaire 1; Golden-crowned Kinglet 2; Cedar Waxwing 91; Loggerhead Shrike 2; Starling 3676; House Sparrow 1355; *Sturnella* sp. 178; Red-winged Blackbird 427; Brewer's Blackbird 130; Brown-headed Cowbird 186; Cardinal 100; House Finch 6; Pine Siskin 37; American Goldfinch 33; Northern (Slate-colored) Junco 104; Northern (Oregon) Junco 13; Northern Junco ssp. 239; Tree Sparrow 918; Harris' Sparrow 313; Song Sparrow 2; Lapland Longspur 2640; Smith's Longspur 700 (no details—Ed.). Total 59 species (2 additional subspecies); about 15,282 individuals.

Jay and Judy Bailey, Ken and Kelly Baker, S. Burr, Dick, Ann, and Richard Courter, M. Gruver, Virginia (compiler—2039 Raymond, Salina, KS 67401) and Wyman Hobson, D. Jackson, A. Jahn, H. Lear, Frank and Alice Marks, Charles and Ivy Marsh, A. Nonhoff, J. Sackrider, Ray and Mary Streckfus, Maure and Teresa Weigel, Lois and Les Zerbe (Smoky Hill Audubon Society).

Sawyer. 37° 32' N, 98° 41' W. Center 2 mi. N Sawyer, KS. Habitat coverage: cultivated fields 75 percent, riparian woodland 15 percent, grassland 10 percent. Jan. 3, 1982, 8:30 a.m. to 5 p.m., 20°F to 25°F; wind NW, 0-12 m.p.h.; water partly open; 0-1" snow; overcast. Thirteen observers in 3 parties. Total party-hours 38 (22 on foot, 16 by car) and 2 hrs. at feeders. Total party-miles 138 (29 on foot, 109 by car).

Great Blue Heron 7; Canada Goose 327; Mallard 647; Pintail 6; American Wigeon 10; Greater Scaup 1 (no details—Ed.); Sharp-shinned Hawk 1; Cooper's Hawk 2; Red-tailed Hawk 23; Rough-legged Hawk 14; *Buteo* sp. 1; Golden Eagle 1; Bald Eagle 3; Marsh Hawk 23; Prairie Falcon 5; American Kestrel 18; Bobwhite 169; Ring-necked Pheasant 24; Turkey 60; Virginia Rail 2 (no details—Ed.); Killdeer 5; Common Snipe 5; Rock Dove 74; Mourning Dove 15; Great Horned Owl 9; Barred Owl 3; Belted Kingfisher 12; Common (Yellow-shafted) Flicker 45; Common (Red-shafted) Flicker 6; Common Flicker ssp. 21; Red-bellied Woodpecker 39; Hairy Woodpecker 18; Downy Woodpecker 47; Horned Lark 7044; Blue Jay 5; Common Crow 196; Black-capped Chickadee 126; Carolina Chickadee 2; Tufted Titmouse 23; White-breasted Nuthatch 18; Red-breasted Nuthatch 1; Brown Creeper 8; Winter Wren 1; American Robin 18; Eastern Bluebird 34; Golden-crowned Kinglet 6; Ruby-crowned Kinglet 4; Starling 148; House Sparrow 492; Western Meadowlark 446; Red-winged Blackbird 4596; Brewer's Blackbird 3; Common Grackle 24; Cardinal 101; Pine Siskin 2; American Goldfinch 50; Rufous-

sided Towhee 2; Savannah Sparrow 6 (no details—Ed.); Northern (Oregon) Junco 38; Northern Junco ssp. 613; Tree Sparrow 1203; Harris' Sparrow 302; White-crowned Sparrow 4; Fox Sparrow 2; Song Sparrow 12; Lapland Longspur 2053. Total 62 species (1 additional subspecies); about 19,226 individuals.

T. Brungardt, Sr., K. Brunson, Bob, Holly, Joyce and Robin Hartmann, B. Hlavachick (compiler—214 N. Main, Pratt, KS 67124), Dennis, Jane and Lee Queal, Byron and June Walker, B. Wood.

Topeka. 39° 02' N, 95° 40' W. Center State Capitol. Habitat coverage: cultivated fields 32 percent, lakes and rivers 20 percent, residential areas 15 percent, upland deciduous forest 12 percent, riparian forest 12 percent, grassland 9 percent. Dec. 19, 1981. 6:45 a.m. to 4:30 p.m., 0°F to 20°F; wind E, 0-5 m.p.h.; water partly open; 1-2" snow cover; clear. Twenty-nine observers in 4 parties. Total party-hours 61.5 (36 on foot, 25.5 by car) plus 0.5 hrs. owling and 6 hrs. at feeders. Total party-miles 232 (33 on foot, 199 by car) and 1 mile owling.

Western Grebe 1 (excellent details—Ed.); Pied-billed Grebe 3; Great Blue Heron 2; Canada Goose 41; Mallard 417; Gadwall 4; Am. Green-winged Teal 1; American Wigeon 2; Ring-necked Duck 2; Canvasback 1; Common Goldeneye 3; Bufflehead 8; Common Merganser 13; Sharp-shinned Hawk 1; Cooper's Hawk 1; Red-tailed Hawk 50; Bald Eagle 1; Marsh Hawk 8; American Kestrel 21; Bobwhite 45; Ring-necked Pheasant 1; Killdeer 1; Common Snipe 1; Herring Gull 1; Ring-billed Gull 33; Rock Dove 844; Mourning Dove 110; Great Horned Owl 8; Barred Owl 1; Belted Kingfisher 4; Common (Yellow-shafted) Flicker 28; Common (Red-shafted) Flicker 1; Red-bellied Woodpecker 23; Red-headed Woodpecker 14; Yellow-bellied Sapsucker 2; Hairy Woodpecker 4; Downy Woodpecker 45; Horned Lark 115; Blue Jay 152; Common Crow 145; Black-capped Chickadee 146; Tufted Titmouse 57; White-breasted Nuthatch 5; Red-breasted Nuthatch 1; Brown Creeper 6; Mockingbird 2; Brown Thrasher 1; American Robin 21; Eastern Bluebird 5; Golden-crowned Kinglet 7; Cedar Waxwing 63; Loggerhead Shrike 9; Starling 2375; House Sparrow 976; Eastern Meadowlark 40; *Sturnella* sp. 83; Red-winged Blackbird 180; Rusty Blackbird 60; Brewer's Blackbird 40; Common Grackle 35; Brown-headed Cowbird 2; Cardinal 226; Purple Finch 2; Pine Siskin 69; American Goldfinch 187; Lesser Goldfinch 1 (excellent details—Ed.); Rufous-sided Towhee 2; Northern (Slate-colored) Junco 1048; Northern (Oregon) Junco 7; Tree Sparrow 459; Field Sparrow 6; Harris' Sparrow 96; White-crowned Sparrow 12; White-throated Sparrow 5; Song Sparrow 28. Total 72 species (2 additional subspecies); about 8,420 individuals. Seen in area during count period, but not on count day: Eared Grebe, Snow Goose, Lesser Scaup, Turkey, Evening Grosbeak.

M. Armfield, V. Basgall, J. Brier, E. Davis, Arline and Robert Delker, E. Dennis, G. Flentge, Barney and Betty Gilmer, B. Glazier, Dean and Gladys Grisell, G. Haegert, P. Henney, S. Johnson, D. LaShelle, B. Lawson, E. M. and E. R. Lewis, V. Lockhart, S. Lyrene, S. Merrill, M. Pheasant, J. Ramberg, O. Rice (compiler—1627 W. 28th, Topeka, KS 66611), B. Trimble, T. Vogel, P. Willis.

Udall-Winfield. 37° 16' N, 96° 59' W. Center water tower, Winfield State Training School. Habitat coverage: riparian forest 40 percent, cultivated fields 20 percent, grassland 20 percent, oldfields and fencerows 10 percent, lakes and rivers 6 percent, residential areas 4 percent. Dec. 20, 1981. 8 a.m. to 5 p.m., 24°F to 39°F; wind SW, 15-20 m.p.h.; water mostly open; overcast. Eleven observers in 5 parties. Total party-hours 40 (13 on foot, 27 by car) plus 2 hrs. owling. Total party-miles 350 (34 on foot, 316 by car) and 40 miles owling.

Pied-billed Grebe 1; Great Blue Heron 10; American Bittern 1 (good details—Ed.); Canada Goose 269; Mallard 5378; Black Duck 2; Gadwall 70; Pintail 10; Am. Green-winged Teal 4; American Wigeon 12; Wood Duck 2; Lesser Scaup 10; Common Goldeneye 1000; Bufflehead 2; Ruddy Duck 1; Hooded Merganser 5; Common Merganser 1000; Red-tailed Hawk 72; Rough-legged Hawk 2; Bald Eagle 6; Marsh Hawk 23; Prairie Falcon 4; American Kestrel 36; Greater Prairie Chicken 40; Bobwhite 360; Ring-necked Pheasant 3; Killdeer 3; Common Snipe 1;

Herring Gull 5; Ring-billed Gull 123; Rock Dove 130; Mourning Dove 57; Ground Dove 1 (excellent details—Ed.); Great Horned Owl 7; Barred Owl 4; Belted Kingfisher 1; Common (Yellow-shafted) Flicker 26; Common (Red-shafted) Flicker 6; Pileated Woodpecker 2; Red-bellied Woodpecker 67; Red-headed Woodpecker 10; Yellow-bellied Sapsucker 1; Hairy Woodpecker 6; Downy Woodpecker 56; Horned Lark 37; Blue Jay 88; Common Crow 111; Black-capped Chickadee 152; Carolina Chickadee 135; Tufted Titmouse 43; White-breasted Nuthatch 33; Red-breasted Nuthatch 4; Brown Creeper 2; Bewick's Wren 1; Carolina Wren 2; Marsh Wren 2; Mockingbird 7; Brown Thrasher 1; American Robin 26; Eastern Bluebird 11; Golden-crowned Kinglet 2; Ruby-crowned Kinglet 7; Cedar Waxwing 3; Loggerhead Shrike 6; Starling 1262; House Sparrow 1041; Eastern Meadowlark 5; Western Meadowlark 3; *Sturnella* sp. 255; Red-winged Blackbird 1482; Rusty Blackbird 150; Brewer's Blackbird 253; Common Grackle 12; Brown-headed Cowbird 27; Cardinal 129; Pine Siskin 75; American Goldfinch 111; Rufous-sided Towhee 9; Northern (Slate-colored) Junco 1022; Northern (Oregon) Junco 11; Tree Sparrow 1687; Field Sparrow 13; Harris' Sparrow 1054; White-crowned Sparrow 40; White-throated Sparrow 1; Swamp Sparrow 1; Song Sparrow 201; Lapland Longspur 1305. Total 85 species (2 additional subspecies); about 19,651 individuals. Seen in area during count period, but not on count day: Double-crested Cormorant.

B. Anderson, W. Champeny, G. Gangwere, T. Larcher, J. Laws, M. Thompson (compiler—1704 E. 9th, Winfield, KS 67156), Agnes, Larry and Ross Williams, D. Wilt, R. Wimmer.

Wichita. 37° 41' N, 97° 20' W. Center confluence of Arkansas and Little Arkansas rivers. Habitat coverage: riparian woodland 40 percent, residential areas 30 percent, lakes and rivers 15 percent, cultivated fields 10 percent, marsh 5 percent. Dec. 19, 1981. 8 a.m. to 5 p.m., 11°F to 30°F; wind SE, 8-20 m.p.h.; water partly frozen; no snow cover; clear. Twenty-two observers in 5 parties. Total party-hours 40 (25 on foot, 15 by car). Total party-miles 295 (27 on foot, 268 by car).

Pied-billed Grebe 8; Double-crested Cormorant 3; Great Blue Heron 3; Canada Goose 375; Mallard 445; Gadwall 97; Pintail 11; Am. Green-winged Teal 2; American Wigeon 178; Wood Duck 1; Redhead 29; Ring-necked Duck 26; Canvasback 46; Lesser Scaup 6; Common Goldeneye 77; Bufflehead 15; Hooded Merganser 1; Common Merganser 3; Red-tailed Hawk 46; Red-tailed (Harlan's) Hawk 1; Marsh Hawk 2; Prairie Falcon 1; American Kestrel 11; Bobwhite 9; Ring-necked Pheasant 14; American Coot 198; Killdeer 20; Common Snipe 14; Herring Gull 4; Ring-billed Gull 1800; Rock Dove 572; Mourning Dove 13; Screech Owl 1; Great Horned Owl 9; Barred Owl 1; Belted Kingfisher 5; Common (Yellow-shafted) Flicker 19; Common (Red-shafted) Flicker 5; Red-bellied Woodpecker 9; Yellow-bellied Sapsucker 4; Hairy Woodpecker 5; Downy Woodpecker 18; Horned Lark 373; Blue Jay 76; Common Crow 7156; Black-capped Chickadee 166; Tufted Titmouse 24; White-breasted Nuthatch 4; Red-breasted Nuthatch 23; Brown Creeper 13; Mockingbird 2; Brown Thrasher 5; American Robin 32; Townsend's Solitaire 3; Golden-crowned Kinglet 8; Loggerhead Shrike 1; Starling 7831; Yellow-rumped (Myrtle) Warbler 1; House Sparrow 1758; Eastern Meadowlark 43; *Sturnella* sp. 262; Red-winged Blackbird 6390; Brewer's Blackbird 151; Great-tailed Grackle 160; Common Grackle 109; Brown-headed Cowbird 285; Cardinal 167; Purple Finch 4; Pine Siskin 54; American Goldfinch 165; Red Crossbill 2; Rufous-sided Towhee 17; Northern (Slate-colored) Junco 799; Northern (Oregon) Junco 2; Tree Sparrow 469; Harris' Sparrow 394; White-crowned Sparrow 8; White-throated Sparrow 4; Lincoln's Sparrow 2; Song Sparrow 60. Total 76 species (3 additional subspecies); about 31,130 individuals.

L. Bussjaeger, M. Butel, John and Walker Butin, W. Champeny (compiler—RR 1, Oxford, KS 67119), F. Dexter, B. DuGay, D. Ferguson, J. Fisher, B. Gress, B. Hodges, D. Kilby, S. Kingswood, M. Lesan, G. Neavoll, Jean and Miriam Roark, S. Stegall, D. Tucker, D. Vannoy, G. Wiens, R. Wiley.

Wilson Reservoir. 38° 56' N, 98° 34' W. Northernmost point of Minooka Park (6

mi. NNE Dorrance, KS). Habitat coverage: riparian woodland 20 percent, grassland 20 percent, lakes and rivers 20 percent, cultivated fields 15 percent, oldfields and fencerows 10 percent, shelterbelts 10 percent, coniferous stands 2 percent, marsh 2 percent, residential areas 1 percent. Dec. 19, 1981. 7:30 a.m. to 5 p.m., 3°F to 19°F; wind S to SE, 10-20 m.p.h.; reservoir 15 percent frozen, ponds frozen, rivers open; less than 0.5" snow cover; heavy rime overnight; clear. Eight observers in 3 parties. Total party-hours 28 (16 on foot, 12 by car) plus 0.5 hrs. owling. Totals party-miles 317 (14 on foot, 303 by car) and 10 miles owling.

Great Blue Heron 5; Canada Goose 2451; Mallard 3269; Gadwall 1; Pintail 2; Blue-winged Teal 10 (good details—Ed.); American Wigeon 6; Northern Shoveler 21; Redhead 28; Canvasback 15; Common Goldeneye 134; Bufflehead 5; Hooded Merganser 4; Common Merganser 1648; Sharp-shinned Hawk 2; Red-tailed Hawk 38; Red-tailed (Harlan's) Hawk 1; Rough-legged Hawk 2; *Buteo* sp. 1; Golden Eagle 1; Bald Eagle 9; Marsh Hawk 37; Prairie Falcon 2; Merlin 1 (excellent details—Ed.); American Kestrel 22; Greater Prairie Chicken 3; Bobwhite 62; Ring-necked Pheasant 4; American Coot 3; Common Snipe 5; Herring Gull 35; Ring-billed Gull 5724; Rock Dove 19; Mourning Dove 11; Barn Owl 1; Great Horned Owl 11; Long-eared Owl 1 (good details—Ed.); Belted Kingfisher 4; Common (Yellow-shafted) Flicker 10; Common (Red-shafted) Flicker 9; Common Flicker ssp. 3; Red-bellied Woodpecker 2; Hairy Woodpecker 1; Downy Woodpecker 5; Say's Phoebe 1 (excellent details—Ed.); Horned Lark 235; Blue Jay 11; Black-billed Magpie 6; Common Crow 7; Black-capped Chickadee 6; Marsh Wren 1 (heard only); American Robin 326; Mountain Bluebird 1 (excellent details—Ed.); Townsend's Solitaire 1; Golden-crowned Kinglet 3; Loggerhead Shrike 2; Starling 135; House Sparrow 40; Western Meadowlark 297; Red-winged Blackbird 1221; Common Grackle 3; Cardinal 8; Pine Siskin 20; American Goldfinch 28; Northern (Slate-colored) Junco 164; Northern (Oregon) Junco 15; Tree Sparrow 1497; Harris' Sparrow 168; White-crowned Sparrow 1; Song Sparrow 1; Lapland Longspur 495. Total 66 species (3 additional subspecies); about 18,321 individuals.

B. Baca, L. Banker, Jerilyn and Tom Cannon (compiler—Box 127, Lucas, KS 67648), J. Holland, Jim and Jean Piland, M. Watkins.

Div. Biology, Kansas State University, Manhattan, KS 66506.

OVENBIRD NESTING IN DOUGLAS COUNTY, KANSAS Calvin L. Cink and Roger L. Boyd

During June of 1978 we identified an Ovenbird (*Seturus aurocapillus*) as a resident on 1 of our 20-acre breeding bird census grids at the University of Kansas Breidenthal Biological Reserve, 2 miles north of Baldwin City, Kansas. The bird was seen and heard singing by Boyd in the same general location on 2 additional occasions, but no evidence of nesting was found. We assumed that it was a non-breeding individual because no female was ever observed and no Ovenbirds were recorded as singing on any of our other 5 study grids in similar stands of oak-hickory forest.

In the summer of 1979, however, Ovenbirds were recorded as territorial birds on 5 of the 6 grids. One was recorded in Wall Woods, 2 in Cliff Woods, 2 in Breidenthal Woods, 3 in East Beisecker Woods and 2 in West Beisecker Woods. The latter 2 grids border the east side of Douglas County Lake (see Cink and Boyd 1979 for exact locations of all grids and their vegetation). The presence of 10 Ovenbirds was a dramatic increase in numbers over the previous summer, but some degree of conspicuousness may have been due to the time of the year we censused. We started earlier in 1979 (May vs. June), and the Ovenbirds may have been more vocal.

Boyd flushed an Ovenbird at close range on 1 May 1979 in Cliff Woods, but no nest was located. On 14 June Cink discovered 2 fledged young foraging on the ground in Beisecker East being attended by an adult Ovenbird. From the development of their plumage it was judged that they probably hatched in mid-May. By following

an adult with food, an extensive search on 19 June in Beisecker East revealed a battered nest with 3 young. While approaching the nest for a closer look, the young quickly deserted by alternately hopping, running and short flights. One of the young was captured and it proved to be in juvenal plumage with rectrices and remiges still in sheaths.

In the summer of 1980 the Ovenbird population was smaller, with birds recorded on only 2 of 6 census grids for a total of 5 territorial males. On 3 June Cink again found fledged young attended by feeding adults in Beisecker East. A second group of fledged young (determined by banding) was seen on 6 June. Plumage development in both of these broods and the 2 recorded in 1979 suggests that most of the clutches are laid in early May.

On 24 June 1980 Cink discovered the nest of an Ovenbird as the incubating female flushed underfoot. The well camouflaged nest contained 4 eggs. It was constructed in a typically domed fashion of grass and leaf litter with the entrance opening oriented to the east (Fig. 1). Two return visits (26 and 28 June) were made during the morning hours and the female was incubating both times. On 2 July the nest was found deserted. One egg was missing and the remaining 3 were cold. One of these was near pipping and the other 2 showed some development. There was no sign of predator disturbance. Temperatures were extremely high that week (over 38°C) which may have contributed to embryonic death or desertion by the incubating adult. In view of the fact that most of the previous broods discovered had fledged much earlier, it could be that this was a renesting attempt.



Figure 1. The nest of the Ovenbird found breeding in southern Douglas County, Kansas on 24 June 1980. The pencil indicates the nest entrance and size scale. (From a color slide by C. L. Cink).

These are the first nesting records of the Ovenbird for Douglas County. They may also be the first well documented records for the State of Kansas. Johnston (1964), for example, did not include the Ovenbird as a Kansas breeding bird, even though both directories to the birds of Kansas (Johnston 1960, 1965) include the Ovenbird as a possible breeder. Earlier, Tordoff (1956) listed the species as a local summer resident in the northeast on the basis of the single record of Brumwell (1951). The latter reference and the thesis on which it is based (Brumwell, 1941)

provide no details except to say that a pair nested in June 1939 on the Fort Leavenworth Military Reservation, and that a pair nested there in different habitat in 1940 as well. Whether "nested" means that a breeding pair or singing male was observed, that a nest was actually discovered, or that dependent young were found, is unknown. Goss (1891) lists the Ovenbird as a "summer resident: very common in the eastern part of the state", but provides no actual records, just the implication of breeding. There are no nest record cards on file at the University of Kansas Museum of Natural History.

Whether the breeding population in Douglas County is of recent origin or has simply been overlooked until now is uncertain. It would be valuable to ascertain the breeding status of the Ovenbird in all remaining mature forest stands of eastern Kansas.

Our thanks to Peter Lowther for supplying information from the Brumwell thesis at the University of Kansas and for checking the nest record card file.

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