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WINTER BIRD COUNT FOR 1980

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This year's Kansas winter bird count produced a record 143 species obtained through the efforts of 502 observers participating in 30 separate count areas. This high diversity may have resulted from two primary factors: mild, early-winter temperatures that allowed more southerly-wintering species to linger and an influx of species from further north. As has become customary, Morton County had the largest number of unique species with 9. Lawrence was a far second with 3. Emporia, Pomona Reservoir, Manhattan, Topeka, and Wichita each had 2 species that were found on no other Kansas counts, while Arkansas City, Baldwin City, Baxter Springs, Goodland, Junction City, Pawnee-Rush Counties, Sawyer, and Udall-Winfield each had 1 unique species. Counts in which 20 or more people participated were held in Baldwin City, Emporia, Halstead-Newton, Kansas City, Lawrence, Manhattan, Pomona Reservoir, and Topeka. Manhattan again had the highest species total with 92.

The list of species wintering further north than usual is long. Certainly the 2 Common Yellowthroats discovered in the marsh below Milford Lake Dam on the Junction City count are extraordinary, and this record is the only new species added to the Kansas winter count list this year. But there are other good records. Eared Grebes occurred at Lawrence and Horned Grebes at Udall-Winfield, while Pied-billed Grebes were present on 7 counts, either on count day or during count week. Common Loons were found at Manhattan in the north and Baxter Springs in the south, and Manhattan had 2 White Pelicans. Udall-Winfield also recorded a White Pelican, but the bird was known to be injured. Double-crested Cormorants were seen at Kansas City and Junction City as well as during count week at Manhattan, while a Yellow-crowned Night Heron was at Pittsburg on 5 January, too late for count week. Among the waterfowl there were Blue-winged Teal at Manhattan, Northern Shovelers at Baxter Springs and Wilson Reservoir, Ruddy Ducks at Wichita, Hooded Mergansers on 7 counts across the state, and Wood Ducks on 4 counts. Another vagrant that should have been on a more southerly sojourn was the House Wren at Lawrence; while in the west, Long-billed Marsh Wrens were found at Kanopolis Reservoir and in Morton County. A Gray Catbird remained to be counted by the Topeka group, and along the southern border of the state a Hermit Thrush was identified at both Arkansas City and Baxter Springs. There was a Northern Oriole at a feeder in Manhattan the day before and the day after the count, but not on count day. A Yellow-headed Blackbird that visited a Topeka feeder just missed count week. Savannah Sparrows were found on the Linn County count as well as by the Topeka contingent, a Vesper Sparrow was seen well at Pomona Reservoir, and a large number of Lark Sparrows turned up on the Sawyer count.

Of the Snowy Owls that were sprinkled across the state at low density this winter, 4 fell into count circles and were added to the winter bird list. But this species was not the only northern owl around; a Saw-Whet was seen on the Emporia count and a Long-eared Owl was identified at Topeka. Nor was the northern invasion limited to owls. The 2 Glaucous Gulls at Tuttle Creek Reservoir on the Manhattan count may be the same ones that turned up further west at Milford

Lake to be added to the Junction City count period list. Red-breasted Nuthatches were present on 18 (60%) of the Kansas counts and in some locations their numbers exceeded the numbers of White-breasted Nuthatches. A Bohemian Waxwing appeared at Baldwin City, while a Northern Shrike was found on the Emporia count. Evening Grosbeaks were seen at Emporia, Manhattan, and Sawyer but never in large flocks. Pine Siskins were almost everywhere (73% of the counts), sometimes in large numbers, but only 2 individuals made it back to Baldwin City this year. Common Redpolls were found at Baldwin City, Fostoria, Halstead-Newton, Lawrence, and Manhattan. Many of the northern finches as well as the Red-breasted Nuthatches were counted at feeders and an increasing number of Kansas counts are making a definite effort to include feeders in their surveys. In Hays, however, Sharp-shinned Hawks have also picked up this routine so that the numbers and variety of birds usually obtained from the feeders in the area were disappointing.

A Gray-headed Junco occurred again on the Kansas count this year; this time the species was identified in Goodland. Lark Buntings were present for the fifth consecutive year on the Morton County count, but the closest Curve-billed Thrasher they could find was in the Richfield, Kansas cemetery on 30 December, well outside the count circle.

It appears that Carolina Wrens are making a comeback. While numbers of individuals are not high, this species was recorded on 7 counts this year.

Starlings and blackbirds are doing well too. While Topeka may have been impressed with almost 15,000 Starlings, Wichita had over 200,000 and Emporia approached 300,000. Counts of Rusty Blackbirds, Common Grackles, and Brown-headed Cowbirds were in the 1000's at various locations, for example, Pittsburg, Udall-Winfield, and Emporia. Pittsburg counters were awed with a never-ending stream of over 100,000 red-wings (which had been counted the week before at 240,000 individuals), but Wichita with 750,641 Red-winged Blackbirds wins the Icterid sweepstakes this year (for whatever it is worth).

Arkansas City. 37° 02' N, 97° 02' W. Center intersection U.S. 77 and Arkansas River. Habitat coverage: oldfields and fencerows 40 per cent, lakes and rivers 25 per cent, cultivated fields 20 per cent, residential 10 per cent, grassland 5 per cent. Jan. 3, 1981. 8 a.m. to 5 p.m.; 25°F to 33°F; wind N, 5-20 m.p.h.; waters open; no snow cover. Sixteen observers in 6 parties. Total party-hours 41 (25 on foot, 16 by car). Total party-miles 246 (40 on foot, 206 by car).

Pied-billed Grebe 2; Great Blue Heron 7; Canada Goose 1; Mallard 7; Lesser Scaup 2; Red-tailed Hawk 45; Red-tailed (Harlan's) Hawk 4; Bald Eagle 11; Marsh Hawk 17; American Kestrel 10; Bobwhite 60; Ring-necked Pheasant 3; Turkey 7; Killdeer 5; Least Sandpiper 1 (good details—Ed.); Herring Gull 1; Ring-billed Gull 419; Rock Dove 122; Mourning Dove 12; Great Horned Owl 5; Barred Owl 1; Belted Kingfisher 3; Common (Yellow-shafted) Flicker 49; Common (Red-shafted) Flicker 7; Red-bellied Woodpecker 46; Red-headed Woodpecker 5; Yellow-bellied Sapsucker 6; Hairy Woodpecker 12; Downy Woodpecker 52; Horned Lark 7; Blue Jay 43; Common Crow 163; Carolina Chickadee 514; Tufted Titmouse 48; White-breasted Nuthatch 21; Brown Creeper 10; Winter Wren 2; Mockingbird 5; Brown Thrasher 1; American Robin 285; Hermit Thrush 1; Eastern Bluebird 4; Golden-crowned Kinglet 13; Cedar Waxwing 133; Loggerhead Shrike 1; Starling 1108; Yellow-rumped (Myrtle) Warbler 10; House Sparrow 1545; Eastern Meadowlark 5; Western Meadowlark 6; meadowlark sp. 358; Red-winged Blackbird 613; Rusty Blackbird 300; Brown-headed Cowbird 8; Cardinal 159; Purple Finch 44; Pine Siskin 294; American Goldfinch 590; Rufous-sided Towhee 6; Dark-eyed (Slate-colored) Junco 868; Tree Sparrow 576; Field Sparrow 3; Harris' Sparrow 1027; White-crowned Sparrow 18; Song Sparrow 45. Total 62 species (2 additional subspecies); about 9,756 individuals.

Carolee and Louis Bussjaeger, W. Champeny (compiler—RR 1, Oxford, KS 67119), H. Chaplin, B. Gress, M. Lesan, N. McDonald, E. Randall, Jean and Miriam Roark, D. Vannoy, John and Louise Wherry, G. Wiens, Agnes and Ross Williams.

Baldwin. 38° 47' N, 95° 16' W. Center Jct. Hwys 56 and 59. Habitat coverage: riparian forest 25 per cent, cultivated fields 16 per cent, upland deciduous forest 15 per cent, grassland 15 per cent, oldfields and fence rows 14 per cent, lakes and rivers 7 per cent, coniferous stands 4 per cent, residential 4 per cent. Dec. 20, 1980. 5 a.m. to 5:30 p.m.; 6°F to 21°F; wind N to NW, 0-10 m.p.h.; water mostly frozen; no snow cover; mostly clear A.M., partly cloudy P.M. Twenty-eight observers in 8 parties. Total party-hours 72 (17 on foot, 55 by car) plus 4 hrs. owling and 8 hrs. at feeders. Total party-miles 461 (17 on foot, 444 by car) and 32 miles owling.

Great Blue Heron 1; Snow Goose (white morph) 1; Mallard 61; Gadwall 6; American Wigeon 2; Redhead 2; Sharp-shinned Hawk 4; Red-tailed Hawk 48; Red-tailed (Harlan's) Hawk 2; Rough-legged Hawk 1; *Buteo* sp. 2; Bald Eagle 1; Marsh Hawk 3; American Kestrel 54; Bobwhite 48; Killdeer 6; Common Snipe 1; Rock Dove 40; Mourning Dove 44; Screech Owl 5; Great Horned Owl 11; Snowy Owl 1; Barred Owl 5; Short-eared Owl 1; Belted Kingfisher 3; Common (Yellow-shafted) Flicker 87; Common Flicker ssp. 5; Red-bellied Woodpecker 75; Red-headed Woodpecker 49; Yellow-bellied Sapsucker 6; Hairy Woodpecker 12; Downy Woodpecker 139; Horned Lark 205; Blue Jay 193; Common Crow 358; Black-capped Chickadee 572; Tufted Titmouse 40; White-breasted Nuthatch 35; Red-breasted Nuthatch 3; Brown Creeper 3; Mockingbird 21; Brown Thrasher 1; American Robin 932; Eastern Bluebird 73; Golden-crowned Kinglet 9; Bohemian Waxwing 3 (excellent details—Ed.); Cedar Waxwing 531; Loggerhead Shrike 15; Starling 1013; Yellow-rumped (Myrtle) Warbler 1; House Sparrow 1149; Eastern Meadowlark 15; meadowlark sp. 333; Red-winged Blackbird 46; Rusty Blackbird 1; Cardinal 287; Purple Finch 39; Pine Siskin 2; American Goldfinch 142; Dark-eyed (Slate-colored) Junco 1138; Tree Sparrow 970; Field Sparrow 7; Harris' Sparrow 96; White-crowned Sparrow 23; White-throated Sparrow 1; Lincoln's Sparrow 10; Swamp Sparrow 3; Song Sparrow 63; Lapland Longspur 107. Total 65 species (1 additional subspecies); about 9166 individuals. Seen in area during count period, but not on count day—Canvasback, Common Redpoll.

Amelia and Donald Betts, Ivan and Margaret Boyd, R. Boyd (compiler—Biology Dept., Baker Univ., Baldwin City, KS 66066), John, Johnie and Martin Brockway, T. A. Church, C. Cink, J. Collins, K. David, F. Dixon, L. E. Eberwein, R. Faulh, P. Lowther, K. Kelley, E. Myers, M. Pankratz, M. Pressgrove, T. Rodhouse, F. Schmidt, J. Shores, D. Stout, G. Walters, K. Whitbeck, Lind and John Vadosh Zemple.

Baxter Springs. 37° 10' N, 94° 50' W. Center Riverton. Habitat coverage: riparian forest 35 per cent, cultivated fields 20 per cent, oldfields and fencerows 20 per cent, lakes and rivers 5 per cent, marsh 5 per cent, swamp 5 per cent, upland deciduous forest 4 per cent, grasslands 3 per cent, residential 2 per cent, coniferous stands 1 per cent. Dec. 24, 1980. 7 a.m. to 5 p.m.; 15°F to 23°F; wind N, 5-10 m.p.h.; lakes 50 per cent open and rivers 100 per cent open; snow cover 0; clear. One observer in 1 party. Total party-hours 10 (9 on foot, 1 by car). Total party-miles 30 (10 on foot, 20 by car).

Common Loon 1; Pied-billed Grebe 3; Great Blue Heron 5; Canada Goose 1; Snow Goose (white morph) 20; Snow Goose (blue morph) 15; Mallard 101; Am. Green-winged Teal 1; Northern Shoveler 1; Lesser Scaup 2; Red-tailed Hawk 4; Red-shouldered Hawk 3; Marsh Hawk 3; American Kestrel 2; Bobwhite 5; Killdeer 6; Ring-billed Gull 15; Rock Dove 44; Belted Kingfisher 2; Common (Yellow-shafted) Flicker 7; Common Flicker ssp. 2; Pileated Woodpecker 3; Red-bellied Woodpecker 15; Red-headed Woodpecker 46; Yellow-bellied Sapsucker 2; Hairy Woodpecker 1; Downy Woodpecker 28; Blue Jay 55; Common Crow 51; Black-capped Chickadee 15; Carolina Chickadee 60; Tufted Titmouse 26; White-breasted Nuthatch 1; Brown Creeper 3; Winter Wren 2; Mockingbird 5; American Robin 37; Hermit Thrush 1 ("seen well"); Eastern Bluebird 9; Golden-crowned Kinglet 2; Ruby-crowned Kinglet 1; Cedar Waxwing 20; Loggerhead Shrike 2; Starling 572; Yellow-rumped (Myrtle) Warbler 3; House Sparrow 3; meadowlark sp. 56; Red-winged Blackbird 227; Common Grackle 382; Cardinal 62; American Goldfinch 70; Dark-eyed (Slate-colored) Junco 82; Dark-eyed (Oregon) Junco 14;

Tree Sparrow 2; White-throated Sparrow 27; Fox Sparrow 4; Swamp Sparrow 8; Song Sparrow 44; Lapland Longspur 1. Total 56 species (1 additional subspecies); about 2185 individuals.

J. Rising (compiler—Dept. Zoology, Univ. Toronto, Toronto, Ont., Canada M5S 1A1).

Camp Naish. 39° 04' N, 94° 52' W. Center intersection of sections 21, 22, 27, 28, T 11 S, R 23 E. Habitat coverage: riparian forest 45 per cent, upland deciduous forest 35 per cent, oldfields and fencerows 10 per cent, grassland 5 per cent, swamp 4 per cent, lakes and rivers 1 per cent. Dec. 21, 1980. 8 a.m. to 6:30 p.m.; 30°F to 50°F; wind S, 5 m.p.h.; water mostly frozen; no snow cover; clear. Six observers in 2 parties. Total party-hours 8 (7 on foot, 1 by car) plus 1 hr. owling. Total party-miles 12 (8 on foot, 4 by car) and 3 miles owling.

Red-tailed Hawk 3; American Kestrel 2; Ring-billed Gull 5; Rock Dove 5; Screech Owl 3; Belted Kingfisher 1; Common Flicker ssp. 7; Red-bellied Woodpecker 21; Red-headed Woodpecker 4; Hairy Woodpecker 3; Downy Woodpecker 14; Blue Jay 32; Common Crow 74; Black-capped Chickadee 69; Tufted Titmouse 38; White-breasted Nuthatch 15; Brown Creeper 1; Carolina Wren 2; American Robin 4; Eastern Bluebird 1; Golden-crowned Kinglet 2; Loggerhead Shrike 1; Starling 10; House Sparrow 15; Cardinal 29; Pine Siskin 1; American Goldfinch 13; Dark-eyed Junco ssp. 117; Tree Sparrow 9; Song Sparrow 5. Total 30 species; about 506 individuals.

P. Clark, I. McColl, K. McWilliams, M. Mills, S. Roth (compiler—Lawrence High School, Lawrence, KS 66044), J. Yochim.

Concordia. 39° 33' N, 97° 39' W. Center Cloud County Community College. Habitat coverage: grassland 30 per cent, marsh 30 per cent, cultivated fields 20 per cent, riparian woodland 10 per cent, oldfields and fencerows 10 per cent. Dec. 29, 1980. 7 a.m. to 6 p.m.; 30°F to 60°F; wind S, 0-5 m.p.h.; water partly frozen; no snow cover; ground dry; clear. Five observers in 1 party. Total party-hours 10 (6 on foot, 4 by car). Total party-miles 79 (5 on foot, 74 by car).

Mallard 84; Red-tailed Hawk 5; *Buteo* sp. 2; Marsh Hawk 1; American Kestrel 3; Greater Prairie Chicken 24; Bobwhite 48; Ring-necked Pheasant 17; Rock Dove 6; Barred Owl 5; Common (Yellow-shafted) Flicker 5; Common (Red-shafted) Flicker 1; Red-headed Woodpecker 1; Blue Jay 1; Common Crow 1; White-breasted Nuthatch 2; American Robin 2; Cedar Waxwing 29; Starling 40; Eastern Meadowlark 24; Red-winged Blackbird 200; Cardinal 1; Dark-eyed (Slate-colored) Junco 7; Tree Sparrow 23. Total 22 species (1 additional subspecies); about 532 individuals.

S. Campbell, H. Kerns, Kelly, Stuart and Eugene Leon (compiler—Cloud County Community College, Concordia, KS 66901).

Dodge City. 37° 46' N, 99° 58' W. Center 2 miles E St. Mary of the Plains College. Habitat coverage: grasslands 40 per cent, riparian woodland 20 per cent, lakes and rivers 25 per cent, residential 15 per cent. Dec. 20, 1980. 8 a.m. to 5:30 p.m.; 19°F to 40°F; wind light and variable; partly cloudy a.m., clear p.m. Twelve observers. Number of parties not given. Total party-hours not given. Total party-miles 281 (9 on foot, 272 by car).

Mallard 189; Pintail 9; Red-tailed Hawk 7; Rough-legged Hawk 10; Ferruginous Hawk 4; Bald Eagle 1; Marsh Hawk 15; American Kestrel 9; Bobwhite 15; Ring-necked Pheasant 21; Rock Dove 5; Mourning Dove 2; Screech Owl 1; Great Horned Owl 7; Belted Kingfisher 1; Common (Yellow-shafted) Flicker 10; Common (Red-shafted) Flicker 8; Common Flicker ssp. 17; Red-bellied Woodpecker 1; Red-headed Woodpecker 1; Downy Woodpecker 5; Horned Lark 674; Blue Jay 15; Black-billed Magpie 45; Common Crow 753; Black-capped Chickadee 33; White-breasted Nuthatch 8; Red-breasted Nuthatch 8; Brown Creeper 12; Brown Thrasher 1; American Robin 107; Eastern Bluebird 3; Mountain Bluebird 4; Townsend's Solitaire 3; Golden-crowned Kinglet 8; Starling 724; House Sparrow

1078; Western Meadowlark 403; Red-winged Blackbird 2; Cardinal 11; Purple Finch 6; House Finch 332; Pine Siskin 162; American Goldfinch 7; Dark-eyed Junco ssp. 524; Tree Sparrow 769; Harris' Sparrow 321; White-crowned Sparrow 37; Song Sparrow 1; Lapland Longspur 453. Total 48 species (1 additional subspecies); about 6841 individuals.

M. Bleumer, J. Burkhart, J. Challans (compiler—2415 Hart, Dodge City, KS 67801), G. Cole, J. Davis, J. Fromm, L. Good, H. Moore, J. O'Keefe, R. Olivarez. R. W. Treeder, K. Watkins.

Elk City Reservoir. 37° 15' N, 95° 51' W. Center Card Creek, 7 mi. west of Independence, KS. Habitat coverage: cultivated fields 60 per cent, residential 20 per cent, lakes and rivers 20 per cent. Dec. 22, 1980. 7:30 a.m. to 5:30 p.m.; 30°F to 40°F; wind S to SE, 5-25 m.p.h.; water partly open. Six observers in 2 parties. Total party-hours 12 (4 on foot, 8 by car). Total party-miles 80 (6 on foot, 74 by car).

Great Blue Heron 4; Canada Goose 500; White-fronted Goose 10; Snow Goose (white morph) 5000; Snow Goose (blue morph) 3000; Mallard 14,000; Gadwall 5; Am. Green-winged Teal 5; Common Goldeneye 20; Common Merganser 250; Red-tailed Hawk 10; Rough-legged Hawk 9; Bald Eagle 5; Marsh Hawk 6; American Kestrel 13; Bobwhite 15; Herring Gull 2; Ring-billed Gull 97; Rock Dove 2; Screech Owl 1; Common (Yellow-shafted) Flicker 14; Common (Red-shafted) Flicker 1; Red-bellied Woodpecker 8; Hairy Woodpecker 3; Downy Woodpecker 7; Blue Jay 16; Common Crow 54; Black-capped Chickadee 25; Carolina Chickadee 44; Tufted Titmouse 2; Mockingbird 9; American Robin 775; Eastern Bluebird 22; Cedar Waxwing 400; Loggerhead Shrike 5; Starling 82; Yellow-rumped (Myrtle) Warbler 1; House Sparrow 50; Eastern Meadowlark 61; Red-winged Blackbird 3; Cardinal 72; Purple Finch 19; American Goldfinch 57; Dark-eyed (Slate-colored) Junco 346; Dark-eyed (Oregon) Junco 1; Dark-eyed Junco ssp. 1; Tree Sparrow 40; Field Sparrow 20; Harris' Sparrow 95; White-crowned Sparrow 12; Song Sparrow 10. Total 47 species (2 additional subspecies); about 25,209 individuals. Seen in area during count period, but not on count day—Great Horned Owl.

S. Albright (compiler—Box 258, Longton, KS 67352), H. Albright, Bill, Inez, John and Kea Prather.

Emporia. 38° 27' N, 96° 05' W. Center 1 mile S of Lang. Habitat coverage: riparian forest 55 per cent, grassland 20 per cent, residential 8 per cent, cultivated fields 5 per cent, oldfields and fencerows 5 per cent, lakes and rivers 3 per cent, upland deciduous forest 2 per cent, coniferous stands 1 per cent, marsh 1 per cent. Dec. 21, 1980. 6:30 a.m. to 5:30 p.m.; 9°F to 26°F; wind SE, 3-7 m.p.h.; water partly open; no snow; clear. Twenty observers in 11 parties. Total party-hours 138 (66 on foot, 72 by car) plus 3 hrs. owling. Total party-miles 556 (66 on foot, 490 by car) and 3 miles owling.

Great Blue Heron 1; Mallard 203; Gadwall 1; Am. Green-winged Teal 3; Ring-necked Duck 2; Lesser Scaup 4; Common Goldeneye 4; Bufflehead 5; Sharpshinned Hawk 2; Cooper's Hawk 2 (excellent details—Ed.); Red-tailed Hawk 48; Red-tailed (Harlan's) Hawk 1; Rough-legged Hawk 3; Marsh Hawk 36; Prairie Falcon 2; Merlin 1 (excellent details—Ed.); American Kestrel 31; Greater Prairie Chicken 103; Bobwhite 220; Ring-necked Pheasant 1; Killdeer 1; Herring Gull 13; Ring-billed Gull 26; Rock Dove 102; Mourning Dove 31; Screech Owl 3; Great Horned Owl 16; Snowy Owl 1 (good details—Ed.); Barred Owl 9; Saw-whet Owl 1 (excellent details—Ed.); Belted Kingfisher 2; Common (Yellow-shafted) Flicker 74; Common (Red-shafted) Flicker 7; Red-bellied Woodpecker 90; Red-headed Woodpecker 4; Yellow-bellied Sapsucker 11; Hairy Woodpecker 22; Downy Woodpecker 109; Horned Lark 3424; Blue Jay 174; Common Crow 197; Black-capped Chickadee 174; Tufted Titmouse 29; White-breasted Nuthatch 59; Red-breasted Nuthatch 10; Brown Creeper 39; Winter Wren 5; Carolina Wren 3; Mockingbird 5; Brown Thrasher 2; American Robin 52; Eastern Bluebird 19; Golden-crowned Kinglet 23; Ruby-crowned Kinglet 2; Cedar Waxwing 26; Northern Shrike 1 (excellent details—Ed.); Loggerhead Shrike 21; Starling 278,841;

House Sparrow 1112; Eastern Meadowlark 334; meadowlark sp. 46; Red-winged Blackbird 3915; Rusty Blackbird 27; Brewer's Blackbird 30; Common Grackle 2; Brown-headed Cowbird 1153; Cardinal 279; Evening Grosbeak 1 (at feeder); Purple Finch 8; Pine Siskin 44; American Goldfinch 153; Rufous-sided Towhee 1; Dark-eyed (Slate-colored) Junco 768; Dark-eyed (Oregon) Junco 2; Tree Sparrow 1135; Field Sparrow 6; Harris' Sparrow 519; White-crowned Sparrow 28; White-throated Sparrow 2; Lincoln's Sparrow 3; Song Sparrow 70; Lapland Longspur 1038. Total 78 species (3 additional subspecies); about 294,977 individuals.

W. Boles, C. Hall, L. Herbert, M. Kuehn, D. Laird, Gilbert and Marie Leisman, D. Milsap, D. Neufeld, J. Parrish, Curtis and Winona Rhoades, Ed and Jean Schulenberg (compiler—Rt. 1, Admire, KS 66830), M. Schulenberg, M. Schwilling, L. Smith, K. Tabor, A. Tubbs, R. Wells.

Fostoria. 39° 30' N, 96° 30' W. Center 3 miles N Fostoria. Habitat coverage: grassland 55 per cent, oldfields and fencerows 25 per cent, cultivated fields 14 per cent, upland deciduous forest 5 per cent, lakes and rivers 1 per cent. Dec. 15, 1980. 8 a.m. to 4:30 p.m.; 28°F to 34°F; wind S to SW, 6-8 m.p.h.; water partly frozen; partly cloudy. Four observers in 1 party. Total party-hours 8.5 (2 on foot, 6.5 by car). Total party-miles 49.6 (2 on foot, 47.6 by car).

Great Blue Heron 1; Mallard 3; Cooper's Hawk 1; Red-tailed Hawk 9; Rough-legged Hawk 1; Marsh Hawk 5; American Kestrel 10; Ring-necked Pheasant 2; Ring-billed Gull 48; Rock Dove 10; Mourning Dove 18; Great Horned Owl 1; Barred Owl 1; Belted Kingfisher 2; Common (Yellow-shafted) Flicker 14; Red-bellied Woodpecker 9; Yellow-bellied Sapsucker 2; Hairy Woodpecker 3; Downy Woodpecker 7; Horned Lark 32; Blue Jay 23; Common Crow 106; Black-capped Chickadee 33; Tufted Titmouse 2; White-breasted Nuthatch 7; Red-breasted Nuthatch 2; American Robin 30; Loggerhead Shrike 2; Starling 53; House Sparrow 2065; Eastern Meadowlark 3; Red-winged Blackbird 16; Common Grackle 5; Brown-headed Cowbird 46; Cardinal 22; Common Redpoll 7; Pine Siskin 3; American Goldfinch 78; Dark-eyed (Slate-colored) Junco 80; Dark-eyed (Oregon) Junco 6; Tree Sparrow 345; Harris' Sparrow 37. Total 41 species (1 additional subspecies); about 3150 individuals. Seen in area during count period, but not on count day—Greater Prairie Chicken, Bobwhite, Brown Creeper, Eastern Bluebird.

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

Goodland. 39° 17' N, 101° 47' W. Center 4 miles S U.S. 24, 1 mile W K27. Habitat coverage: cultivated fields 50 per cent, grassland 35 per cent, residential 5 per cent, lakes and rivers 5 per cent, marsh 5 per cent. Dec. 27, 1980. 7:15 a.m. to 4 p.m.; 35°F to 74°F; wind SW, 7-18 m.p.h.; clear. Six observers in 2 parties. Total party-hours 14 (11 on foot, 3 by car). Total party-miles 103 (6 on foot, 97 by car).

Sharp-shinned Hawk 1; Rough-legged Hawk 20; Marsh Hawk 9; Prairie Falcon 3; American Kestrel 3; Ring-necked Pheasant 31; Rock Dove 15; Great Horned Owl 4; Common (Yellow-shafted) Flicker 1; Common (Red-shafted) Flicker 9; Downy Woodpecker 2; Horned Lark 2400; Common Crow 35; Black-capped Chickadee 2; White-breasted Nuthatch 1; Brown Creeper 3; American Robin 5; Townsend's Solitaire 1; Starling 12; House Sparrow 140; Western Meadowlark 150; Red-winged Blackbird 120; Common Grackle 5; Brown-headed Cowbird 1; House Finch 6; Pine Siskin 3; American Goldfinch 40; Rufous-sided Towhee 1; Dark-eyed (Slate-colored) Junco 12; Dark-eyed (Oregon) Junco 150; Gray-headed Junco 1 (excellent details—Ed.); Tree Sparrow 700; Harris' Sparrow 12; White-crowned Sparrow 2; Song Sparrow 12; Lapland Longspur 150. Total 34 species (2 additional subspecies); about 4062 individuals. Seen in area during count period, but not on count day—Blue Jay.

F. Duell, E. Gray, Eric and John Palmquist (compiler—1521 Clark, Goodland, KS 67735), T. Shane, R. Welton.

Halstead-Newton. 38° 04' N, 97° 28' W. Center 5.75 miles NE Halstead. Habitat coverage: riparian woodland 41 per cent, cultivated fields 17 per cent, oldfields and fencerows 17 per cent, grassland 11 per cent, residential 7 per cent, upland deciduous forest 4 per cent, lakes and rivers 3 per cent. Dec. 20, 1980. 7:30 a.m. to 5:15 p.m.; 12°F to 20°F; wind NE to E, 4-15 m.p.h.; water partly open; no snow cover; overcast. Twenty-five observers in 7 parties. Total party-hours 60 (37 on foot, 23 by car). Total party-miles 248 (35 on foot, 213 by car).

Canada Goose 1; Mallard 18; *Accipiter* sp. 1; Cooper's Hawk 3; Red-tailed Hawk 24; Rough-legged Hawk 6; *Buteo* sp. 7; Marsh Hawk 10; American Kestrel 20; Bobwhite 1; Ring-necked Pheasant 30; Killdeer 6; Common Snipe 2; Rock Dove 137; Mourning Dove 48; Great Horned Owl 9; Belted Kingfisher 5; Common (Yellow-shafted) Flicker 36; Common (Red-shafted) Flicker 25; Common Flicker ssp. 29; Red-bellied Woodpecker 40; Yellow-bellied Sapsucker 2; Hairy Woodpecker 10; Downy Woodpecker 67; Horned Lark 4604; Blue Jay 117; Black-billed Magpie 1 (excellent details—Ed.); Common Crow 1047; Black-capped Chickadee 351; Tufted Titmouse 12; White-breasted Nuthatch 30; Red-breasted Nuthatch 5; Brown Creeper 14; Winter Wren 3; Mockingbird 1; Brown Thrasher 2; American Robin 108; Eastern Bluebird 5; Townsend's Solitaire 1 (excellent details—Ed.); Golden-crowned Kinglet 13; Cedar Waxwing 105; Loggerhead Shrike 6; Starling 3445; House Sparrow 1147; meadowlark sp. 271; Red-winged Blackbird 1458; Rusty Blackbird 61; Brewer's Blackbird 1; Brown-headed Cowbird 1501; Cardinal 130; Purple Finch 12; Common Redpoll 1 (excellent details—Ed.); Pine Siskin 12; American Goldfinch 66; Rufous-sided Towhee 11; Dark-eyed (Slate-colored) Junco 602; Dark-eyed (Oregon) Junco 7; Tree Sparrow 514; Harris' Sparrow 953; White-crowned Sparrow 8; Song Sparrow 68; Lapland Longspur 155. Total 57 species (2 additional subspecies); about 17,385 individuals. Seen in area during count period, but not on count day—Common Grackle (found dead on count day), Field Sparrow, White-throated Sparrow.

Clifford and Neil Amstutz, A. Deckert, R. Fritz, R. Galle, O. Goering, P. Harper, D. Harris, J. Hiebert, P. Jantzen, P. Janzen, D. Kreider, W. Pauls, D. Platt (compiler—RFD 2, Box 209, Newton, KS 67114), R. Platt, B. Regier, S. Senner, J. Torline, P. Unrau, H. Verboom, A. Voth, M. Voth, N. Voth, W. Voth, B. Waltner (Harvey County Natural History Association).

Hays. 38° 47' N, 99° 23' W. Center 3.5 miles S, 4 miles W Hays. Habitat coverage: residential 50 per cent, riparian woodland 15 per cent, oldfields and fencerows 10 per cent, lakes and rivers 10 per cent, grassland 10 per cent, cultivated fields 5 per cent. Dec. 20, 1980. 7:30 a.m. to 5:30 p.m.; 8°F to 30°F; wind SSE, 3-20 m.p.h.; water mostly open; no snow cover; overcast A.M., mostly clear P.M. Eight observers in 6 parties. Total party-hours 27 (18 on foot, 9 by car) plus 2 hrs. at feeders. Total party-miles 129 (23 on foot, 106 by car).

Great Blue Heron 2; Canada Goose 75; Mallard 19; Am. Green-winged Teal 6; American Wigeon 2; Redhead 1; Sharp-shinned Hawk 4; Red-tailed Hawk 11; Rough-legged Hawk 4; Ferruginous Hawk 2; *Buteo* sp. 1; Marsh Hawk 12; Prairie Falcon 1; American Kestrel 7; Ring-necked Pheasant 30; Common Snipe 1; Rock Dove 189; Mourning Dove 5; Great Horned Owl 3; Belted Kingfisher 1; Common (Yellow-shafted) Flicker 11; Common (Red-shafted) Flicker 6; Common Flicker ssp. 3; Red-bellied Woodpecker 4; Yellow-bellied Sapsucker 1; Hairy Woodpecker 6; Downy Woodpecker 11; Horned Lark 566; Blue Jay 4; Black-billed Magpie 1; Common Crow 59; Black-capped Chickadee 24; White-breasted Nuthatch 2; Red-breasted Nuthatch 4; Brown Creeper 7; Winter Wren 1; Mockingbird 1; American Robin 11; Townsend's Solitaire 1; Golden-crowned Kinglet 2; Cedar Waxwing 1; Loggerhead Shrike 1; Starling 1209; House Sparrow 1136; Western Meadowlark 118; Red-winged Blackbird 10,034; Common Grackle 2; Brown-headed Cowbird 1; Cardinal 8; House Finch 30; Pine Siskin 36; American Goldfinch 33; Rufous-sided Towhee 1; Dark-eyed (Slate-colored) Junco 116; Dark-eyed (Oregon) Junco 4; Tree Sparrow 395; Harris' Sparrow 93; White-crowned Sparrow 2; Song Sparrow

12; Lapland Longspur 1716. Total 57 species (2 additional subspecies); about 16,050 individuals.

E. Carlson, D. Cooper, C. Ely (compiler—314 W. 7th St., Hays, KS 67601), C. Ginther, K. Mermis, M. Rolfs, A. L. Steele, E. Wisner.

Junction City. 39° 02' N, 96° 50' W. Center I-70 roadside park W of Junction City. Habitat coverage: grassland 20 per cent, upland deciduous forest 15 per cent, lakes and rivers 15 per cent, cultivated fields 13 per cent, riparian forest 12 per cent, coniferous stands 10 per cent, oldfields and fencerows 10 per cent, marsh 3 per cent, residential 2 per cent. Dec. 28, 1980. 3 a.m. to 5 p.m.; 23°F to 40°F; wind S, 0-20 m.p.h.; waters partly frozen; partly cloudy. Seventeen observers in 8 parties. Total party-hours 58 (26 on foot, 32 by car) plus 5 hrs. owling. Total party-miles 361 (26 on foot, 335 by car) and 35 miles owling.

Pied-billed Grebe 1; Double-crested Cormorant 1; Great Blue Heron 2; Canada Goose 225; Mallard 1494; Gadwall 90; Common Goldeneye 48; Hooded Merganser 1; Common Merganser 30; Sharp-shinned Hawk 1; Red-tailed Hawk 52; Red-tailed (Harlan's) Hawk 4; Rough-legged Hawk 4; Bald Eagle 1; Marsh Hawk 8; Merlin 1; American Kestrel 40; Greater Prairie Chicken 69; Bobwhite 38; Ring-necked Pheasant 12; American Coot 24; Killdeer 1; Herring Gull 11; Ring-billed Gull 1154; Rock Dove 34; Mourning Dove 36; Screech Owl 4; Great Horned Owl 8; Snowy Owl 1; Barred Owl 4; Belted Kingfisher 8; Common (Yellow-shafted) Flicker 83; Common (Red-shafted) Flicker 8; Common Flicker ssp. 8; Red-bellied Woodpecker 63; Yellow-bellied Sapsucker 9; Hairy Woodpecker 9; Downy Woodpecker 93; Horned Lark 201; Blue Jay 76; Common Crow 315; Black-capped Chickadee 349; Tufted Titmouse 15; White-breasted Nuthatch 26; Red-breasted Nuthatch 3; Brown Creeper 13; Winter Wren 2; Bewick's Wren 4; Carolina Wren 3; Mockingbird 4; American Robin 1877; Eastern Bluebird 13; Mountain Bluebird 10 (good details—Ed.); Golden-crowned Kinglet 19; Cedar Waxwing 259; Loggerhead Shrike 9; Starling 1710; Yellow-rumped (Myrtle) Warbler 5; Common Yellowthroat 2 (excellent details—Ed.); House Sparrow 1494; Eastern Meadowlark 22; Western Meadowlark 6; meadowlark sp. 129; Red-winged Blackbird 1000; Common Grackle 15; Brown-headed Cowbird 40; Cardinal 248; Purple Finch 17; Pine Siskin 63; American Goldfinch 335; Rufous-sided Towhee 7; Dark-eyed (Slate-colored) Junco 827; Dark-eyed (Oregon) Junco 17; Dark-eyed Junco ssp. 5; Tree Sparrow 863; Field Sparrow 6; Harris' Sparrow 921; White-crowned Sparrow 48; White-throated Sparrow 1; Song Sparrow 58; Lapland Longspur 1; *Calcarius* sp. 300. Total 75 species (3 additional subspecies); about 15,048 individuals. Seen in area during count period, but not on count day—Glaucous Gull (no details—Ed.), Short-eared Owl.

C. Best, L. Combs, S. Fretwell, M. Gray, J. Hawes, A. Jackson, B. LaShelle (compiler—Rt. 2, Box 11, Alma, KS 66401), Dan and John LaShelle, Jeanne and Jim Nixon, Caroline and Joseph Reynolds, T. Shane, C. Smith, B. Trimble, J. Zimmerman.

Kanopolis Reservoir. 38° 37' N, 97° 57' W. Center 1.3 miles W corner Saline, McPherson and Ellsworth Counties. Habitat coverage: grassland 55 per cent, cultivated fields 30 per cent, oldfields and fencerows 5 per cent, lakes and rivers 4 per cent, riparian woodland 3 per cent, upland deciduous forest 1 per cent, residential 1 per cent, marsh 1 per cent. Jan. 1, 1981. 6:45 a.m. to 5 p.m.; 29°F to 44°F; wind variable, 15 m.p.h.; waters 80 per cent open; no snow cover; partly cloudy. Six observers in 2 parties. Total party-hours 21 (13 on foot, 8 by car) plus 0.75 hrs. owling. Total party-miles 249 (9 on foot, 240 by car).

Great Blue Heron 2; Canada Goose 203; Mallard 8127; Gadwall 5; Pintail 11; Am. Green-winged Teal 10; Common Goldeneye 17; Common Merganser 2100; Red-tailed Hawk 19; Bald Eagle 4; Marsh Hawk 3; American Kestrel 15; Bobwhite 9; Ring-necked Pheasant 14; Killdeer 5; Common Snipe 3; Herring Gull 11; Ring-billed Gull 321; Rock Dove 13; Mourning Dove 3; Screech Owl 2; Great Horned Owl 11; Belted Kingfisher 4; Common (Yellow-shafted) Flicker 17; Red-bellied

Woodpecker 21; Yellow-bellied Sapsucker 1; Hairy Woodpecker 4; Downy Woodpecker 13; Horned Lark 421; Blue Jay 20; Common Crow 33; Black-capped Chickadee 61; White-breasted Nuthatch 6; Brown Creeper 8; Winter Wren 1; Long-billed Marsh Wren 3 (good details—Ed.); American Robin 12; Golden-crowned Kinglet 1; Loggerhead Shrike 2; Starling 193; House Sparrow 225; Western Meadowlark 82; Red-winged Blackbird 610; Brown-headed Cowbird 12; Cardinal 32; American Goldfinch 59; Rufous-sided Towhee 3; Dark-eyed (Slate-colored) Junco 102; Dark-eyed (Oregon) Junco 18; Tree Sparrow 773; Harris' Sparrow 82; Song Sparrow 57; Lapland Longspur 1135. Total 52 species (1 additional subspecies); about 14,919 individuals.

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

Kansas City. 39° 03' N, 94° 45' W. Center near Morris, KS. Habitat coverage: grassland 30 per cent, riparian forest 20 per cent, residential 15 per cent, lakes and rivers 15 per cent, oldfields and fencerows 10 per cent, cultivated fields 10 per cent. Dec. 27, 1980. 8 a.m. to 5:30 p.m.; 26°F to 40°F; wind N to NW, 10-20 m.p.h.; waters partly frozen; no snow cover; partly cloudy. Thirty-two observers in 7 parties. Total party-hours 55.5 (25 on foot, 30.5 by car) and 23 hrs. at feeders. Total party-miles 378.5 (20.5 on foot, 358 by car).

Pied-billed Grebe 4; Double-crested Cormorant 1 (excellent details—Ed.); Great Blue Heron 2; Canada Goose 4; Mallard 4323; Black Duck 1; Gadwall 32; Pintail 2; American Wigeon 1; Wood Duck 1; Redhead 1; Ring-necked Duck 1; Canvasback 1; Lesser Scaup 9; Common Goldeneye 28; Hooded Merganser 5; Common Merganser 114; Sharp-shinned Hawk 3; Cooper's Hawk 2; Red-tailed Hawk 83; Red-tailed (Harlan's) Hawk 1; *Buteo* sp. 4; Bald Eagle 3; Marsh Hawk 3; American Kestrel 42; Bobwhite 68; American Coot 58; Killdeer 2; Ring-billed Gull 24; Rock Dove 228; Mourning Dove 85; Screech Owl 2; Great Horned Owl 6; Barred Owl 3; Belted Kingfisher 5; Common (Yellow-shafted) Flicker 60; Red-bellied Woodpecker 63; Red-headed Woodpecker 13; Yellow-bellied Sapsucker 2; Hairy Woodpecker 14; Downy Woodpecker 142; Horned Lark 74; Blue Jay 291; Black-capped Chickadee 363; Tufted Titmouse 122; White-breasted Nuthatch 17; Red-breasted Nuthatch 19; Brown Creeper 7; Carolina Wren 1; Mockingbird 26; American Robin 17; Eastern Bluebird 6; Golden-crowned Kinglet 3; Cedar Waxwing 68; Loggerhead Shrike 3; Starling 1866; Yellow-rumped (Myrtle) Warbler 10; House Sparrow 871; Western Meadowlark 1; meadowlark sp. 22; Red-winged Blackbird 1196; Common Grackle 44; Brown-headed Cowbird 2; Cardinal 339; Purple Finch 131; Pine Siskin 333; American Goldfinch 223; Dark-eyed (Slate-colored) Junco 1745; Dark-eyed (Oregon) Junco 3; Tree Sparrow 768; Field Sparrow 1; Harris' Sparrow 17; White-crowned Sparrow 26; White-throated Sparrow 13; Fox Sparrow 2; Swamp Sparrow 1; Song Sparrow 338; Lapland Longspur 300. Total 75 species (2 additional subspecies); about 14,925 individuals.

B. Burget, P. Devine, H. Gregory, Mark and Debra Hamlin, P. Kaul, S. Kelley, Artie and George Kester, K. Lisher, F. Lowe, Betty and Dave Majure, C. McGuire, C. MacMillan, E. McHugh, Carol, Maria and Wendell Mohling, L. Moore, J. Myers, M. Myers (compiler—4900 Quivera Ln., Shawnee, KS 66216), L. North, J. Overton, T. Porter, W. Ross, K. Sink, C. Swink, P. Watson, M. Wayman, S. Wilson, S. Yeskie.

Kingman Wildlife Area. 37° 38' N, 98° 16' W. Center Headquarters Kingman Wildlife Area. Habitat coverage: riparian woodland 45 per cent, cultivated fields 35 per cent, grassland 15 per cent, lakes and rivers 5 per cent. Dec. 27, 1980. 8 a.m. to 5:30 p.m.; 26°F to 54°F; wind S, 1-5 m.p.h.; waters partly frozen; overcast. Seven observers in 2 parties. Total party-hours 16 (8 on foot, 8 by car). Total party-miles 91 (8 on foot, 83 by car).

Great Blue Heron 16; Mallard 543; Pintail 2; Am. Green-winged Teal 21; American Wigeon 1; Common Goldeneye 1; Common Merganser 1; Sharp-shinned Hawk 2; Red-tailed Hawk 12; Rough-legged Hawk 4; Marsh Hawk 6; Prairie

Falcon 2; American Kestrel 11; Bobwhite 21; Ring-necked Pheasant 5; Rock Dove 2; Mourning Dove 75; Great Horned Owl 2; Barred Owl 1; Short-eared Owl 1; Belted Kingfisher 11; Common (Yellow-shafted) Flicker 22; Common (Red-shafted) Flicker 7; Red-bellied Woodpecker 21; Hairy Woodpecker 2; Downy Woodpecker 17; Horned Lark 299; Blue Jay 2; Common Crow 87; Black-capped Chickadee 80; White-breasted Nuthatch 2; Red-breasted Nuthatch 1; Brown Creeper 4; Mockingbird 2; American Robin 91; Eastern Bluebird 6; Townsend's Solitaire 1; Golden-crowned Kinglet 7; Loggerhead Shrike 2; Starling 239; House Sparrow 339; Eastern Meadowlark 8; Western Meadowlark 122; Red-winged Blackbird 10,332; Common Grackle 1; Cardinal 19; Pine Siskin 16; American Goldfinch 183; Rufous-sided Towhee 7; Dark-eyed (Slate-colored) Junco 205; Dark-eyed (Oregon) Junco 55; Tree Sparrow 1385; Field Sparrow 3; Harris' Sparrow 319; White-crowned Sparrow 64; White-throated Sparrow 3; Song Sparrow 127; Lapland Longspur. Total 56 species (2 additional subspecies); about 14,859 individuals. Seen in area during count period, but not on count day—Bald Eagle, Killdeer; Ring-billed Gull, Yellow-bellied Sapsucker, Brown-headed Cowbird, Lincoln's Sparrow.

Mary and Randy Clark. H. Hartman, B. Hlavachick, Byron (compiler—Kingman Wildlife Area, Penalsosa, KS 67121) and June Walker, B. Wood.

Lawrence. 39° 00' N, 95° 18' W. Center 1.5 miles N and 2.7 miles W of jct. US-40 and US-59 (a change in center from previous years). Habitat coverage: upland deciduous forest 20 per cent, riparian forest 20 per cent, lakes and rivers 16 per cent, oldfields and fencerows 15 per cent, cultivated fields 10 per cent, residential 10 per cent, coniferous stands 3 per cent, grassland 3 per cent, marsh 3 per cent. Dec. 21, 1980. 6 a.m. to 5 p.m.; 14°F to 30°F; wind N, 0-5 m.p.h.; water partly frozen; no snow cover; clear. Fifty-four observers in 14 parties. Total party-hours 98 (52 on foot, 39 by car, 7 by bicycle) plus 2.5 hrs. owling and 2 hrs. at feeders. Total party-miles 458 (58 by foot, 375 by car, 25 by bicycle) and 5.5 miles owling.

Eared Grebe 3 (excellent details—Ed.); Great Blue Heron 3; Snow Goose (white morph) 20; Mallard 4093; Gadwall 8; American Wigeon 2; Ring-necked Duck 7; Lesser Scaup 6; Common Goldeneye 95; Common Merganser 1; Sharp-shinned Hawk 1; Cooper's Hawk 1; Red-tailed Hawk 58; Red-tailed (Harlan's) Hawk 1; Rough-legged Hawk 1; *Buteo* sp. 1; Bald Eagle 18; Marsh Hawk 27; American Kestrel 47; Bobwhite 16; American Coot 126; Killdeer 9; Herring Gull 12; Ring-billed Gull 644; Rock Dove 717; Mourning Dove 19; Screech Owl 1; Great Horned Owl 10; Barred Owl 3; Belted Kingfisher 10; Common (Yellow-shafted) Flicker 85; Common (Red-shafted) Flicker 4; Common Flicker ssp. 25; Red-bellied Woodpecker 91; Red-headed Woodpecker 16; Yellow-bellied Sapsucker 10; Hairy Woodpecker 21; Downy Woodpecker 106; Horned Lark 55; Blue Jay 126; Common Crow 357; Black-capped Chickadee 492; Tufted Titmouse 50; White-breasted Nuthatch 45; Red-breasted Nuthatch 10; Brown Creeper 15; House Wren 1 (excellent details—Ed.); Winter Wren 2; Mockingbird 7; American Robin 1553; Eastern Bluebird 93; Golden-crowned Kinglet 24; Ruby-crowned Kinglet 5; Cedar Waxwing 402; Loggerhead Shrike 20; Starling 3304; Yellow-rumped (Myrtle) Warbler 2; House Sparrow 1644; Eastern Meadowlark 33; meadowlark sp. 114; Red-winged Blackbird 189; Rusty Blackbird 200; Common Grackle 1; Brown-headed Cowbird 70; Cardinal 202; Purple Finch 12; Common Redpoll 1 (excellent details—Ed.); Pine Siskin 160; American Goldfinch 231; Rufous-sided Towhee 6; LeConte's Sparrow 1 (fair details—Ed.); Dark-eyed (Slate-colored) Junco 1664; Tree Sparrow 990; Field Sparrow 57; Harris' Sparrow 59; White-crowned Sparrow 11; White-throated Sparrow 21; Lincoln's Sparrow 2; Swamp Sparrow 2; Song Sparrow 127; Lapland Longspur 1. Total 76 species (2 additional subspecies); about 18,679 individuals.

B. Akagi, M. Allen, K. Armitage, J. Armstrong, H. Blanton, J. Cane, C. Cink, Nancy and Dave Clark, D. Conrad, J. Conrad, J. Cox, R. Davis, B. Drummond, R. Faulh, H. Fitch, V. Gibson, R. Grubbs, Karen and Jim Hamrick, R. Haugh, P. Hendrick, K. Kindscher, T. Lastovicka, R. Leon, H. Levenson (compiler—1010 Illinois, Lawrence, KS 66044), Eulalia and Eugene Lewis, T. Lewis, K. Liceta, P.

Lowther, C. Luecke, I. McCall, B. McGillivray, R. Mengel, L. Miranda, P. Mulford, M. Murphy, K. Nelson, J. Palmierim, M. Rafferty, N. Ross, B. Schmidt, Cynthia and Ed Shaw, K. Underwood, P. Von Achen, G. Walters, D. Whittemore, D. Wiley, A. Zarley, Linda and John Zempel, L. Zimmer.

Linn County. 38° 11' N, 94° 96' W. Center 1.5 miles E, 3 miles N Mound City P. O. Habitat coverage: riparian forest 45 per cent, oldfields and fencerows 40 per cent, lakes and rivers 10 per cent, residential 5 per cent. Dec. 21, 1980. 7 a.m. to 5 p.m.; 10°F to 40°F; wind SE, 10 m.p.h.; water mostly frozen. Sixteen observers in 4 parties. Total party-hours 20 (3 on foot, 17 by car) plus 1 hr. owling. Total party-miles 223 (5 on foot, 218 by car) and 8 miles owling.

Great Blue Heron 8; Canada Goose 108; Mallard 18,043; Gadwall 30; Pintail 25; Common Goldeneye 13; Hooded Merganser 1; Common Merganser 100; Red-tailed Hawk 47; Red-tailed (Harlan's) Hawk 2; Rough-legged Hawk 4; *Buteo* sp. 1; Bald Eagle 6; Marsh Hawk 2; American Kestrel 20; Ring-billed Gull 2; Rock Dove 29; Great Horned Owl 3; Barred Owl 2; Belted Kingfisher 1; Common (Yellow-shafted) Flicker 35; Pileated Woodpecker 4; Red-bellied Woodpecker 23; Red-headed Woodpecker 15; Yellow-bellied Sapsucker 2; Hairy Woodpecker 4; Downy Woodpecker 25; Horned Lark 8; Blue Jay 55; Common Crow 225; Black-capped Chickadee 73; Tufted Titmouse 23; White-breasted Nuthatch 10; Brown Creeper 4; Carolina Wren 1; Mockingbird 7; American Robin 28; Eastern Bluebird 40; Golden-crowned Kinglet 2; Loggerhead Shrike 12; Starling 216; Yellow-rumped (Myrtle) Warbler 1; House Sparrow 860; Eastern Meadowlark 7; Western Meadowlark 31; meadowlark sp. 63; Red-winged Blackbird 13; Cardinal 139; Purple Finch 21; American Goldfinch 86; Savannah Sparrow 2 (excellent details—Ed.); Dark-eyed (Slate-colored) Junco 398; Dark-eyed (Oregon) Junco 1; Tree Sparrow 268; Harris' Sparrow 13; White-crowned Sparrow 10; White-throated Sparrow 1; Fox Sparrow 1; Lincoln's Sparrow 1; Swamp Sparrow 7; Song Sparrow 14; Lapland Longspur 40. Total 58 species (1 additional subspecies); about 21,236 individuals.

Ivan and Margaret Boyd, R. Boyd, M. Concannon, Mr. and Mrs. Carl Day, T. Heiser, M. Martin, B. Partlow, Barbara (compiler—Rt. 2, Pleasanton, KS) and Martin Pressgrove, H. Reed, J. Reynolds, L. Reynolds, D. Stout, F. Wood.

Manhattan. 39° 11' N, 96° 34' W. Center Anderson Hall, Kansas State University campus. Habitat coverage: riparian forest 25 per cent, upland deciduous forest 21 per cent, oldfields and fencerows 15 per cent, lakes and rivers 13 per cent, grassland 10 per cent, cultivated fields 5 per cent, coniferous stands 5 per cent, residential 4 per cent, marsh 2 per cent. Dec. 20, 1980. 3 a.m. to 5:30 p.m.; 10°F to 20°F; wind NE, 0-5 m.p.h.; waters partly open; no snow cover; mostly cloudy A.M., overcast P.M. Ninety-two observers in 19 parties. Total party-hours 189 (136 on foot, 49.5 by car, 3.5 by canoe) plus 4 hrs. owling and 2 hrs. at feeders. Total party-miles 800 (182 on foot, 610 by car, 8 by canoe) and 25 miles owling.

Common Loon 1; White Pelican 2; Great Blue Heron 18; Canada Goose 666; Snow Goose (white morph) 50; Mallard 3082; Black Duck 1 (good details—Ed.); Gadwall 91; Pintail 1; Am. Green-winged Teal 67; Blue-winged Teal 2 (good details—Ed.); American Wigeon 33; Redhead 4; Ring-necked Duck 2; Lesser Scaup 3; Common Goldeneye 102; Bufflehead 1; Hooded Merganser 1; Common Merganser 2719; Sharp-shinned Hawk 3; Cooper's Hawk 6; Red-tailed Hawk 86; Red-tailed (Harlan's) Hawk 3; Rough-legged Hawk 6; Bald Eagle 46; Marsh Hawk 29; Prairie Falcon 2; Merlin 4; American Kestrel 50; Greater Prairie Chicken 132; Bobwhite 206; Ring-necked Pheasant 61; American Coot 1; Killdeer 41; Common Snipe 3; Glaucous Gull 2 (excellent details—Ed.); Herring Gull 26; Ring-billed Gull 988; Rock Dove 548; Mourning Dove 139; Screech Owl 4; Great Horned Owl 20; Snowy Owl 1 (excellent details—Ed.); Barred Owl 17; Belted Kingfisher 29; Common (Red-shafted) Flicker 33; Common (Yellow-shafted) Flicker 105; Common Flicker ssp. 55; Red-bellied Woodpecker 174; Red-headed Woodpecker 15; Yellow-bellied Sapsucker 27; Hairy Woodpecker 55; Downy Woodpecker 365; Blue Jay 457; Common Crow 1963; Black-capped Chickadee 1329; Tufted Titmouse

111; White-breasted Nuthatch 174; Red-breasted Nuthatch 25; Brown Creeper 60; Winter Wren 5; Bewick's Wren 1; Carolina Wren 1; Mockingbird 3; American Robin 2109; Eastern Bluebird 85; Townsend's Solitaire 2; Golden-crowned Kinglet 51; Cedar Waxwing 231; Loggerhead Shrike 7; Starling 1738; Yellow-rumped (Myrtle) Warbler 30; House Sparrow 3040; Eastern Meadowlark 4; Western Meadowlark 18; meadowlark sp. 477; Red-winged Blackbird 847; Brewer's Blackbird 1; Common Grackle 40; Brown-headed Cowbird 79; Cardinal 834; Evening Grosbeak 1 (fair details—Ed.); Purple Finch 70; Common Redpoll 1 (fair details—Ed.); Pine Siskin 199; American Goldfinch 693; Rufous-sided Towhee 7; Dark-eyed (Slate-colored) Junco 4114; Dark-eyed (Oregon) Junco 82; Tree Sparrow 3002; Field Sparrow 27; Harris' Sparrow 1057; White-crowned Sparrow 52; White-throated Sparrow 13; Lincoln's Sparrow 9; Swamp Sparrow 3; Song Sparrow 299. Total 92 species (3 additional subspecies); about 33,479 individuals. Seen in area during count period, but not on count day—Double-crested Cormorant, Canvasback, Horned Lark, Northern Oriole (good details—Ed.).

J. Arruda, L. Bareis, C. Best, M. Blust, W. Bondell, G. Butcher, R. Campbell, R. Carter, L. Chisom, D. Cox, B. Craig, T. Craig, Max and Mike Donnelly, I. Fallon, P. Fay, Chamblee, Clyde, Lena, Maria and Robert Ferguson, E. Finck, N. Folland, Rebecca and Steve Fretwell, R. Garrett, Antje, Ben and Marion Gray, M. Gurtz, S. Hansen, J. Hawes, R. Higgins, M. Hinten, L. Johnson, C. Kale, A. Kerr, Duane and Gary Kerr, J. Laflin, C. Lorenzen, Carl, Dick and Erich Marzolf, Jackie and Jay McArthur, D. McCulley, M. McGinley, M. McKeeman, R. Meagher, Marge and Tom Muenzenberger, R. Myers, Bob and Pat Kinders, A. Kwolek-Folland, Beth and Gary Odell, B. O'Donnell, Lauri and Tarja Oksanen, M. Peterman, P. Pierce, G. Radke, L. Rebstock, A. Rockhold, T. Ryan, L. Schaffner, Lynn and Neil Schanker, G. Schiltz, C. Schuette, M. Schwab, F. Shipley, J. Shuman, A. Smith, Andrea and Chris Smith, D. Smith, G. Smith, T. Socolofsky, M. Stapanian, L. Tapia, B. Taylor, S. Tomb, D. Townsend, R. Unruh, P. Vernon, T. Warnock, D. Woodson, Jan and John Zimmerman (compiler—Div. Biology, Kans. State Univ., Manhattan, KS 66506).

Morton County. 37° 07' N, 101° 52' W. Center 7 miles N, 2 miles E Elkhart. Habitat coverage: riparian woodland 35 per cent, grasslands 20 per cent, marsh 15 per cent, residential 10 per cent, cultivated fields 10 per cent, rocky slopes 10 per cent. Dec. 28, 1980. 7 a.m. to 6 p.m.; 40°F to 64°F; wind NW, 8-14 m.p.h.; waters open; partly cloudy A.M., clear P.M. Ten observers in 3 parties. Total party-hours 32 (10 on foot, 22 by car). Total party-miles 357 (27 on foot, 330 by car).

Great Blue Heron 1; Mallard 2; Am. Green-winged Teal 1; *Accipiter* sp. 1; Red-tailed Hawk 9; Rough-legged Hawk 6; Ferruginous Hawk 23; Bald Eagle 3; Marsh Hawk 29; Prairie Falcon 5; Merlin 5; American Kestrel 12; Lesser Prairie Chicken 5; Bobwhite 106; Scaled Quail 213; Ring-necked Pheasant 43; Rock Dove 68; Mourning Dove 3; Barn Owl 1; Screech Owl 1; Great Horned Owl 11; Short-eared Owl 1; Common (Yellow-shafted) Flicker 5; Common (Red-shafted) Flicker 22; Common Flicker ssp. 2; Hairy Woodpecker 3; Downy Woodpecker 9; Ladder-backed Woodpecker 1 (fair details—Ed.); Horned Lark 1448; Black-billed Magpie 91; White-necked Raven 1; Common Crow 15; Long-billed Marsh Wren 3; Rock Wren 1; Mockingbird 1; Brown Thrasher 1; American Robin 3; Loggerhead Shrike 4; Starling 176; House Sparrow 1390; Western Meadowlark 312; Red-winged Blackbird 18; House Finch 2; Pine Siskin 38; American Goldfinch 77; Lark Bunting 25; Dark-eyed (Slate-colored) Junco 114; Dark-eyed (Oregon) Junco 156; Dark-eyed Junco ssp. 5; Tree Sparrow 182; White-crowned Sparrow 7; Song Sparrow 12; McCown's Longspur 4; Lapland Longspur 207; Chestnut-collared Longspur 1; *Calcarius* sp. 500. Total 51 species (2 additional subspecies); about 5,385 individuals.

N. Johnson, S. Patti (compiler—6528 Wenonga Terr., Mission Hills, KS 66208), G. Pittman, Jean and Margaret Schulenberg, M. Schwilling, S. Seltman, H. Smith, L. Smith, M. Thompson.

Olathe. 38° 52' N, 94° 50' W. Center junction of U.S. 56 and K-7. Habitat coverage: upland deciduous forest 20 per cent, oldfields and fencerows 20 per cent, cultivated fields 20 per cent, lakes and rivers 15 per cent, grassland 10 per cent, residential 10 per cent, riparian forest 5 per cent. Dec. 29, 1980. 7:30 a.m. to 4:30 p.m.; 36°F to 49°F; wind NW, 10-20 m.p.h.; waters partly frozen; 5 per cent snow cover; mostly cloudy. Twelve observers in 3 parties. Total party-hours 19 (6 on foot, 13 by car). Total party-miles 117 (12 on foot, 105 by car).

Mallard 63; Red-tailed Hawk 34; Rough-legged Hawk 1; *Buteo* sp. 4; Marsh Hawk 5; American Kestrel 31; Greater Prairie Chicken 3; Bobwhite 21; Common Snipe 1; Rock Dove 83; Mourning Dove 15; Great Horned Owl 3; Belted Kingfisher 1; Common (Yellow-shafted) Flicker 10; Common Flicker ssp. 1; Red-bellied Woodpecker 7; Red-headed Woodpecker 3; Hairy Woodpecker 8; Downy Woodpecker 21; Horned Lark 10; Blue Jay 19; Common Crow 73; Black-capped Chickadee 55; Tufted Titmouse 6; White-breasted Nuthatch 2; Red-breasted Nuthatch 1; Brown Creeper 1; Mockingbird 12; American Robin 7; Eastern Bluebird 13; Cedar Waxwing 2; Loggerhead Shrike 6; Starling 996; House Sparrow 724; Eastern Meadowlark 127; meadowlark sp. 45; Red-winged Blackbird 293; Brown-headed Cowbird 65; Cardinal 71; Purple Finch 2; American Goldfinch 65; Dark-eyed (Slate-colored) Junco 110; Tree Sparrow 525; Harris' Sparrow 2; White-crowned Sparrow 8; White-throated Sparrow 1; Swamp Sparrow 4; Song Sparrow 23. Total 45 species; about 3,583 individuals.

Roger, Ivan and Margaret Boyd, Barbara and James Bradley (compiler—11245 Ridgeview, Shawnee Mission, KS 66219), Curt and George Creighton, M. Everly, T. Hoyland, E. Hower, C. Mulford, J. Rentko.

Pawnee-Rush Counties. 38° 21' N, 99° 26' W. Center Pawnee-Rush County line and Nekoma Rd. Habitat coverage: cultivated fields 50 per cent, grassland 45 per cent, oldfields and fencerows 4 per cent, lakes and rivers 1 per cent. Jan. 1, 1981. 7:30 a.m. to 5:30 p.m.; 28°F to 55°F; wind SW, 0-15 m.p.h.; waters open; no snow cover; clear. Three observers in 1 party. Total party-hours 10 (1 on foot, 9 by car). Total party-miles 182 (2 on foot, 180 by car).

Red-tailed Hawk 19; Rough-legged Hawk 18; Ferruginous Hawk 2; Golden Eagle 2; Bald Eagle 2; Marsh Hawk 11; Prairie Falcon 1; Peregrine 1 (good details—Ed.); American Kestrel 5; Ring-necked Pheasant 38; Rock Dove 65; Great Horned Owl 14; Short-eared Owl 1; Common (Yellow-shafted) Flicker 1; Common (Red-shafted) Flicker 2; Common Flicker ssp. 3; Red-bellied Woodpecker 1; Hairy Woodpecker 1; Downy Woodpecker 2; Horned Lark 1400; Black-billed Magpie 1; Common Crow 60; Loggerhead Shrike 1; Starling 61; House Sparrow 235; Western Meadowlark 215; Red-winged Blackbird 752; Dark-eyed (Slate-colored) Junco 5; Dark-eyed (Oregon) Junco 6; Tree Sparrow 690; Harris' Sparrow 80. Total 28 species (2 additional subspecies); about 3,695 individuals. Seen in area during count period, but not on count day—Black-capped Chickadee, American Robin, Golden-crowned Kinglet, American Goldfinch.

D. Bryan, Diane and Scott Seltman (compiler—Nekoma, KS 67559).

Pittsburg. 37° 23' N, 94° 41' W. Center Pittsburg State University campus. Habitat coverage: oldfields and fencerows (including strip-mined lands) 50 per cent, cultivated fields 25 per cent, grassland 10 per cent, riparian forest 10 per cent, residential 5 per cent. Dec. 27, 1980. 8 a.m. to 5:30 p.m.; 7°F to 24°F; wind N, 5-15 m.p.h.; waters partly frozen; no snow cover; clear. Seven observers in 5 parties. Total party-hours 31 (20.5 on foot, 10.5 by car) plus 6 hrs. at feeders. Total party-miles 133 (19 on foot, 114 by car).

Red-tailed Hawk 23; Red-tailed (Kreider's) Hawk 1; Marsh Hawk 7; American Kestrel 11; Bobwhite 41; Killdeer 9; Rock Dove 19; Mourning Dove 13; Great Horned Owl 7; Common (Yellow-shafted) Flicker 17; Red-bellied Woodpecker 8; Red-headed Woodpecker 56; Yellow-bellied Sapsucker 4; Hairy Woodpecker 3; Downy Woodpecker 7; Blue Jay 139; Common Crow 47; Carolina Chickadee 126; Tufted Titmouse 18; White-breasted Nuthatch 1; Red-breasted Nuthatch 1; Brown Creeper 1; Mockingbird 4; American Robin 16; Eastern Bluebird 5; Golden-

crowned Kinglet 2; Ruby-crowned Kinglet 3; Loggerhead Shrike 2; Starling 1338; House Sparrow 264; Eastern Meadowlark 195; Red-winged Blackbird 105,818; Rusty Blackbird 10; Common Grackle 2406; Brown-headed Cowbird 1525; Cardinal 101; Pine Siskin 10; American Goldfinch 48; Rufous-sided Towhee 1; Dark-eyed (Slate-colored) Junco 179; Tree Sparrow 4; Field Sparrow 52; Harris' Sparrow 5; White-crowned Sparrow 1; White-throated Sparrow 16; Song Sparrow 15. Total 45 species (1 additional subspecies); about 112,579 individuals. Seen in area during count period, but not on count day—Barred Owl.

B. Boso, J. Chapman, P. Jones, H. Menghini, J. Smardo, Dorothy and Theodore Sperry (compiler—1413 S. College, Pittsburg, KS 66762).

Pomona Reservoir. 38° 41' N, 95° 41' W. Center intersection U.S. 75 and Dragoon Creek. Habitat coverage: oldfields and fencerows 26 per cent, riparian forest 23 per cent, lakes and rivers 15 per cent, cultivated fields 13 per cent, grassland 12 per cent, upland deciduous forest 5 per cent, residential 5 per cent, coniferous stands 1 per cent. Dec. 28, 1980. 5:15 a.m. to 5:15 p.m.; 37°F to 49°F; wind SW, 2-21 m.p.h.; water mostly frozen; no snow cover; mostly cloudy A.M., partly cloudy P.M. Twenty-two observers in 6 parties. Total party-hours 51.5 (27.25 on foot, 24.25 by car) plus 2 hrs. owling. Total party-miles 252.5 (28 on foot, 224.5 by car) and 15 miles owling.

Great Blue Heron 1; Whistling Swan 4 (excellent details—Ed.); Canada Goose 1260; Snow Goose (white morph) 325; Snow Goose (blue morph) 325; Mallard 11,000; Pintail 1; American Wigeon 7; Canvasback 5; Common Goldeneye 5; Common Merganser 124; Sharp-shinned Hawk 5; Red-tailed Hawk 26; *Buteo* sp. 3; Bald Eagle 1; Marsh Hawk 14; Merlin 1 (excellent details—Ed.); American Kestrel 39; *Falco* sp. 1; Bobwhite 88; Herring Gull 12; Ring-billed Gull 137; Rock Dove 2; Mourning Dove 203; Screech Owl 3; Great Horned Owl 11; Barred Owl 1; Belted Kingfisher 4; Common (Yellow-shafted) Flicker 64; Common (Red-shafted) Flicker 6; Common Flicker ssp. 40; Red-bellied Woodpecker 85; Red-headed Woodpecker 11; Yellow-bellied Sapsucker 7; Hairy Woodpecker 15; Downy Woodpecker 108; Horned Lark 272; Blue Jay 126; Common Crow 171; Black-capped Chickadee 542; Tufted Titmouse 56; White-breasted Nuthatch 33; Red-breasted nuthatch 2; Brown Creeper 4; Winter Wren 1; Mockingbird 11; American Robin 1766; Eastern Bluebird 22; Golden-crowned Kinglet 4; Cedar Waxwing 60; Loggerhead Shrike 9; Starling 1934; House Sparrow 661; Eastern Meadowlark 3; Western Meadowlark 4; meadowlark sp. 352; Red-winged Blackbird 2764; Rusty Blackbird 2; Brewer's Blackbird 10; Brown-headed Cowbird 7; Cardinal 216; Pine Siskin 159; American Goldfinch 97; Vesper Sparrow 1 (excellent details—Ed.); Dark-eyed (Slate-colored) Junco 1056; Dark-eyed (Oregon) Junco 3; Tree Sparrow 1508; Field Sparrow 12; Harris' Sparrow 203; White-crowned Sparrow 5; Song Sparrow 43. Total 64 species (2 additional subspecies); about 26,109 individuals.

J. Ackermann, T. Correll, Bob and Carol Culbertson, Charles and Effie Edwards, S. Kingswood (compiler—Sedgwick Co. Zoo, 5555 Zoo Blvd., Wichita, KS 67212), Eulalia and Gene Lewis, R. Mossman, J. Moyer, R. Parker, K. Redman, Jean and Miriam Roark, Bob and Mobe Rucker, E. Stegall, Jim, Sandra, and Steve Thurman, E. Wisdom.

Quivira National Wildlife Refuge. 38° 09' N, 98° 29' W. Center refuge headquarters, 13 miles N Zenith, KS. Habitat coverage: oldfields and fencerows 40 per cent, grassland 30 per cent, marsh 20 per cent, cultivated fields 10 per cent. Dec. 22, 1980. 7:15 a.m. to 5:30 p.m.; 24°F to 42°F; wind SW, 5-20 m.p.h.; water mostly frozen; no snow cover; mostly cloudy A.M., partly cloudy P.M. Four observers in 2 parties. Total party-hours 20 (1 on foot, 19 by car). Total party-miles 155 (1 on foot, 154 by car).

Canada Goose 600; White-fronted Goose 20; Mallard 11,125; Pintail 6; Am. Green-winged Teal 8; Common Goldeneye 7; Bufflehead 1; Common Merganser 6; Cooper's Hawk 2; Red-tailed Hawk 7; Rough-legged Hawk 11; Golden Eagle 1; Bald Eagle 14; Marsh Hawk 37; Prairie Falcon 2; American Kestrel 9; Ring-necked Pheasant 6; Ring-billed Gull 7; Mourning Dove 23; Great Horned Owl 3;

Common (Yellow-shafted) Flicker 12; Common (Red-shafted) Flicker 17; Red-bellied Woodpecker 8; Hairy Woodpecker 1; Downy Woodpecker 12; Horned Lark 50; Blue Jay 12; Black-billed Magpie 1; Common Crow 189; Black-capped Chickadee 39; American Robin 20; Eastern Bluebird 14; Cedar Waxwing 8; Loggerhead Shrike 1; Starling 14; House Sparrow 30; meadowlark sp. 93; Red-winged Blackbird 1646; Brown-headed Cowbird 60; Cardinal 6; American Goldfinch 22; Dark-eyed (Slate-colored) Junco 60; Dark-eyed (Oregon) Junco 5; Tree Sparrow 910; Harris' Sparrow 185; White-crowned Sparrow 24. Total 44 species (2 additional subspecies); about 15,334 individuals. Seen in area during count period, but not on count day—American Wigeon, Bobwhite.

R. Bryant, C. Darling (compiler—P. O. Box G, Stafford, KS 67578), C. D. Darling, C. Marks.

Sawyer. 37° 32' N, 97° 41' W. Center 2 miles N Sawyer, KS. Habitat coverage: cultivated fields 75 per cent, streamside 15 per cent, grassland 10 per cent. Dec. 29, 1980. 8:15 a.m. to 5:15 p.m.; 40°F to 50°F; wind SSW, 10-15 m.p.h.; water open; no snow cover; clear. Thirteen observers in 3 parties. Total party-hours 27 (12 on foot, 15 by car). Total party-miles 120 (25 on foot, 95 by car).

Mallard 6; Wood Duck 2; Cooper's Hawk 1; Red-tailed Hawk 30; Rough-legged Hawk 10; Marsh Hawk 15; Prairie Falcon 4; American Kestrel 15; Bobwhite 30; Ring-necked Pheasant 13; Turkey 32; Killdeer 1; Rock Dove 3; Mourning Dove 72; Great Horned Owl 4; Barred Owl 3; Belted Kingfisher 3; Common (Yellow-shafted) Flicker 27; Common (Red-shafted) Flicker 6; Red-bellied Woodpecker 32; Yellow-bellied Sapsucker 6; Hairy Woodpecker 7; Downy Woodpecker 46; Horned Lark 100; Blue Jay 5; Common Crow 191; Black-capped Chickadee 148; Tufted Titmouse 29; White-breasted Nuthatch 36; Red-breasted Nuthatch 7; Brown Creeper 20; Winter Wren 2; American Robin 9000; Eastern Bluebird 21; Golden-crowned Kinglet 46; Ruby-crowned Kinglet 2; Cedar Waxwing 1; Loggerhead Shrike 4; Starling 8872; Yellow-rumped (Myrtle) Warbler 3; House Sparrow 390; Western Meadowlark 266; Red-winged Blackbird 803; Rusty Blackbird 2; Brown-headed Cowbird 7; Cardinal 42; Evening Grosbeak 1; Purple Finch 20; Pine Siskin 2; American Goldfinch 43; Lark Sparrow 30 (all field marks noted—Ed.); Dark-eyed (Slate-colored) Junco 677; Dark-eyed (Oregon) Junco 19; Tree Sparrow 836; Field Sparrow 11; Harris' Sparrow 391; White-crowned Sparrow 13; Fox Sparrow 1; Lincoln's Sparrow 1; Song Sparrow 30. Total 58 species (2 additional subspecies); about 22,440 individuals.

K. Brownson, Holly, Joyce and Robin Wartmann, B. Hlavachick (compiler—214 W. Main, Pratt, KS 67124), C. Madson, K. Montei, B. Peabody, Dennis and Jane Queal, Byron and June Walker, B. Wood.

Topeka. 39° 02' N, 95° 40' W. Center State Capitol Bldg. Habitat coverage: upland deciduous forest 24 per cent, cultivated fields 22 per cent, residential 15 per cent, rivers and lakes 30 per cent, grassland 9 per cent. Dec. 20, 1980. 6 a.m. to 5:30 p.m.; 7°F to 18°F; wind N-NE, 5-14 m.p.h.; water partly frozen; no snow cover, clear A.M., partly cloudy P.M. Thirty-three observers in 11 parties. Total party-hours 78 (50.25 on foot, 27.75 by car) plus 1.5 hrs. owling and 7 hrs. at feeders. Total party-miles 359 (38 on foot, 321 by car).

Canada Goose 100; Mallard 464; Canvasback 2; Common Goldeneye 6; Common Merganser 8; Sharp-shinned Hawk 1; Red-tailed Hawk 49; Red-tailed (Harlan's) Hawk 1; Rough-legged Hawk 1; *Buteo* sp. 1; Marsh Hawk 7; American Kestrel 22; *Falco* sp. 1; Bobwhite 51; Turkey 5; American Coot 20; Killdeer 33; Herring Gull 3; Ring-billed Gull 127; *Larus* sp. 4; Rock Dove 1026; Mourning Dove 301; Screech Owl 3; Great Horned Owl 14; Long-eared Owl 1 (excellent details—Ed.); Belted Kingfisher 12; Common (Yellow-shafted) Flicker 36; Red-bellied Woodpecker 46; Red-headed Woodpecker 15; Yellow-bellied Sapsucker 9; Hairy Woodpecker 19; Downy Woodpecker 63; Horned Lark 20; Blue Jay 138; Common Crow 95; Black-capped Chickadee 244; Tufted Titmouse 67; White-breasted Nuthatch 34; Red-breasted Nuthatch 10; Brown Creeper 12; Winter Wren 1; Mockingbird 2; Gray

Catbird 1 (excellent details—Ed.); Brown Thrasher 1; American Robin 39; Eastern Bluebird 6; Golden-crowned Kinglet 9; Cedar Waxwing 376; Loggerhead Shrike 7; Starling 13,901; House Sparrow 857; Eastern Meadowlark 210; meadowlark sp. 43; Red-winged Blackbird 67; Brewer's Blackbird 1; Common Grackle 1; Brown-headed Cowbird 5; Cardinal 217; Purple Finch 44; Pine Siskin 44; American Goldfinch 324; Rufous-sided Towhee 2; Savannah Sparrow 1 (good details—Ed.); Dark-eyed (Slate-colored) Junco 1037; Dark-eyed (Oregon) Junco 4; Dark-eyed Junco ssp. 106; Tree Sparrow 538; Field Sparrow 8; Harris' Sparrow 83; White-crowned Sparrow 15; White-throated Sparrow 15; Song Sparrow 75; Lapland Longspur 12. Total 66 species (2 additional subspecies); about 21,123 individuals. Seen in area during count period, but not on count day—Pied-billed Grebe, Great Blue Heron, Lesser Scaup, Bufflehead, Ruby-crowned Kinglet.

V. Basgall, M. Beers, C. Berry, J. Brier, H. Bryan, Arlene and Robert Delker, B. Glazier, C. Grimm, Dean and Gladys Grisell, J. Gubanyi, M. Heeney, S. Johnson, D. Larson, Dan and John LaShelle, Eugene and Eulalia Lewis, V. Lockhart, B. May, S. Merrill, Dan and Larry Noriega, J. Ramberg, O. Rice (compiler—1627 W. 28th St., Topeka, KS 66611), B. Trimble, D. Vausbinder, J. Wehr, E. R. Willett, Lil and Paul Willis, M. Willis.

Udall-Winfield. 37° 16' N, 96° 59' W. Center water tower at Winfield State Training School. Habitat coverage: riparian woodland 28 per cent, oldfields and fencerows 28 per cent, cultivated fields 26 per cent, lakes and rivers 10 per cent, grassland 4 per cent, residential 2 per cent, coniferous stands 1 per cent, marsh 1 per cent. Dec. 22, 1980. 5 a.m. to 7 p.m.; 23°F to 40°F; wind SSW, 10-25 m.p.h.; water partly frozen; no snow cover; cloudy A.M., partly cloudy to clear P.M. Nine observers in 5 parties. Total party-hours 41 (13 on foot, 28 by car) plus 5 hrs. owling. Total party-miles 351 (27 on foot, 324 by car) and 68 miles owling.

Horned Grebe 4 (excellent details—Ed.); Pied-billed Grebe 1; White Pelican 1 (injured bird); Great Blue Heron 5; Canada Goose 1; Mallard 1012; Black Duck 1 (excellent details—Ed.); Gadwall 5; Am. Green-winged Teal 2; American Wigeon 2; Wood Duck 5; Redhead 2; Lesser Scaup 6; Common Goldeneye 603; Hooded Merganser 6; Common Merganser 1; Sharp-shinned Hawk 1; Red-tailed Hawk 31; Red-tailed (Harlan's) Hawk 2; Bald Eagle 6; Marsh Hawk 15; American Kestrel 30; Greater Prairie Chicken 31; Bobwhite 73; Ring-necked Pheasant 6; Killdeer 8; Herring Gull 5; Ring-billed Gull 34; Rock Dove 199; Mourning Dove 46; Screech Owl 5; Great Horned Owl 2; Belted Kingfisher 4; Common (Yellow-shafted) Flicker 36; Common (Red-shafted) Flicker 3; Common Flicker ssp. 7; Red-bellied Woodpecker 40; Red-headed Woodpecker 1; Yellow-bellied Sapsucker 1; Hairy Woodpecker 13; Downy Woodpecker 59; Horned Lark 463; Blue Jay 46; Common Crow 358; Black-capped Chickadee 27; Carolina Chickadee 348; Tufted Titmouse 52; White-breasted Nuthatch 35; Red-breasted Nuthatch 11; Brown Creeper 10; Winter Wren 1; Bewick's Wren 2; Carolina Wren 1; Mockingbird 3; Brown Thrasher 1; American Robin 178; Eastern Bluebird 6; Golden-crowned Kinglet 11; Ruby-crowned Kinglet 2; Loggerhead Shrike 8; Starling 949; House Sparrow 1336; Eastern Meadowlark 21; Western Meadowlark 4; meadowlark sp. 426; Red-winged Blackbird 8450; Rusty Blackbird 1026; Brewer's Blackbird 24; Common Grackle 1; Brown-headed Cowbird 41; Cardinal 222; Purple Finch 2; Pine Siskin 38; American Goldfinch 113; Rufous-sided Towhee 6; Dark-eyed (Slate-colored) Junco 419; Dark-eyed (Oregon) Junco 43; Tree Sparrow 1135; Field Sparrow 2; Harris' Sparrow 848; White-crowned Sparrow 2; Lincoln's Sparrow 6; Song Sparrow 29; Lapland Longspur 345. Total 79 species (3 additional subspecies); about 19,366 individuals.

B. Anderson, D. Herrin, S. Hobus, J. Laws, D. Seibel (compiler—1446 Kentucky, Lawrence, KS 66044), M. Thompson, L. Williams, D. Wilt, R. Wimmer.

Wichita. 37° 41' N, 97° 20' W. Center confluence of Arkansas and Little Arkansas Rivers. Habitat coverage: lakes and rivers 40 per cent, oldfields and fencerows 25 per cent, residential 20 per cent, cultivated fields 15 per cent. Dec. 20, 1980. 8 a.m.

to 5 p.m.; 13°F to 21°F; wind NE, 4-11 m.p.h.; waters open; no snow cover; cloudy. Nineteen observers in 6 parties. Total party-hours 51 (30 on foot, 21 by car). Total party-miles 337 (48 on foot, 289 by car).

Pied-billed Grebe 5; Great Blue Heron 2; Canada Goose 351; Mallard 540; Black Duck 4; Gadwall 97; Pintail 1; Am. Green-winged Teal 2; American Wigeon 214; Wood Duck 1; Redhead 17; Ring-necked Duck 114; Canvasback 49; Lesser Scaup 7; Common Goldeneye 106; Bufflehead 14; Ruddy Duck 2 (good details—Ed.); Hooded Merganser 3; Common Merganser 2; Sharp-shinned Hawk 1; Cooper's Hawk 1; Red-tailed Hawk 37; Red-tailed (Harlan's) Hawk 3; Rough-legged Hawk 1; Marsh Hawk 2; American Kestrel 10; Bobwhite 15; Ring-necked Pheasant 12; American Coot 152; Killdeer 8; Common Snipe 4; Ring-billed Gull 341; Rock Dove 733; Mourning Dove 12; Screech Owl 1; Great Horned Owl 7; Barred Owl 1; Belted Kingfisher 9; Common (Yellow-shafted) Flicker 27; Red-bellied Woodpecker 5; Yellow-bellied Sapsucker 3; Hairy Woodpecker 4; Downy Woodpecker 38; Blue Jay 61; Common Crow 3464; Black-capped Chickadee 90; Tufted Titmouse 16; White-breasted Nuthatch 8; Red-breasted Nuthatch 17; Brown Creeper 4; Mockingbird 1; Brown Thrasher 2; American Robin 26; Townsend's Solitaire 2; Golden-crowned Kinglet 4; Ruby-crowned Kinglet 3; Loggerhead Shrike 2; Starling 202,267; House Sparrow 1734; Eastern Meadowlark 1; Western Meadowlark 2; meadowlark sp. 109; Red-winged Blackbird 750,641; Rusty Blackbird 1; Brewer's Blackbird 3; Great-tailed Grackle 119; Common Grackle 365; Brown-headed Cowbird 5100; Cardinal 195; Purple Finch 3; Pine Siskin 16; American Goldfinch 281; Rufous-sided Towhee 8; Dark-eyed (Slate-colored) Junco 667; Dark-eyed (Oregon) Junco 9; Tree Sparrow 273; Harris' Sparrow 411; White-crowned Sparrow 3; White-throated Sparrow 7; Song Sparrow 137. Total 77 species (2 additional subspecies); about 969,010 individuals.

L. Bussjaeger, John, Rick and Walker Butin, W. Champeny (compiler—RR 1, Oxford, KS 67119), F. Dexter, J. Fisher, B. Gress, D. Kilby, S. Kingswood, M. Lesan, N. McDonald, K. Redman, Jean and Miriam Roark, Eddie and Savilla Stegall, D. Vannoy, G. Wiens.

Wilson Reservoir. 38° 56' N, 98° 34' W. Center northernmost point of Minooka Park, 5 miles NNE Dorrance, KS. Habitat coverage: grassland 20 per cent, lakes and rivers 20 per cent, riparian woodland 15 per cent, upland deciduous forest 10 per cent, cultivated fields 10 per cent, oldfields and fencerows 10 per cent, residential 10 per cent, marsh 3 per cent, coniferous stands 2 per cent. Jan. 3, 1981. 7 a.m. to 5:30 p.m.; 18°F to 25°F; wind NE, 15-30 m.p.h.; reservoir 10 per cent ice cover, ponds frozen, rivers open; no snow cover; overcast with light snow flurries, clearing with diminishing winds by 3 p.m. Eight observers in 4 parties. Total party-hours 28 (18 on foot, 10 by car). Total party-miles 324 (12 on foot, 312 by car) and 10 miles owling.

Canada Goose 300; Mallard 236; Gadwall 2; Northern Shoveler 1; Redhead 21; Common Goldeneye 78; Bufflehead 2; Hooded Merganser 15; Common Merganser 73; Cooper's Hawk 1; Red-tailed Hawk 24; Rough-legged Hawk 8; Ferruginous Hawk 1; *Buteo* sp. 2; Golden Eagle 1; Bald Eagle 5; Marsh Hawk 22; Prairie Falcon 4; American Kestrel 6; Bobwhite 1; Ring-necked Pheasant 12; American Coot 13; Common Snipe 1; Herring Gull 30; Ring-billed Gull 120; Rock Dove 8; Mourning Dove 1; Great Horned Owl 6; Belted Kingfisher 4; Common (Yellow-shafted) Flicker 8; Common (Red-shafted) Flicker 4; Red-bellied Woodpecker 4; Hairy Woodpecker 4; Downy Woodpecker 5; Horned Lark 156; Blue Jay 11; Black-billed Magpie 2; Common Crow 63; Black-capped Chickadee 55; Brown Creeper 2; American Robin 15; Mountain Bluebird 2 (excellent details—Ed.); Golden-crowned Kinglet 3; Cedar Waxwing 4; Loggerhead Shrike 3; Starling 68; House Sparrow 248; Western Meadowlark 109; Red-winged Blackbird 8222; Brewer's Blackbird 2; Common Grackle 1; Cardinal 8; Pine Siskin 15; American Goldfinch 140; Dark-eyed (Slate-colored) Junco 199; Dark-eyed (Oregon) Junco 16; Dark-eyed Junco ssp. 2; Tree Sparrow 241; Harris' Sparrow 332; White-crowned Sparrow 2; Fox Sparrow 1 (excellent details—Ed.); Song Sparrow 5; Lapland Longspur 50. Total 59 species (2 additional subspecies); about 13,170 individuals.

B. Baca, L. Banker, Jerilyn and Tom Cannon (compiler—P. O. Box 127, Lucas, KS 67648), James and Jean Piland, Amy and Charles Hall.

Southeast Kansas Nesting Notes.—Carolina Chickadee (*Parus carolinensis*). On 1 May 1980 I collected a nest containing 11 eggs at Neosho Fishing Lake (Lake McKinley), Neosho County, Kansas. Seven of the eggs were fresh with no indication that incubation had begun. Four obviously were an earlier clutch as the well developed embryos had died and were dehydrated with some dark discoloring of the eggs. The nest was in an enlarged medium-sized woodpecker cavity about 9 feet above the ground in a rotten 12-inch Chinese elm snag.

The 2 clutches of eggs are marked identifiably different and are a little different in size and shape so may have been laid by different females. If the clutches were of different females, the fate of the first bird or the cause of abandonment is not known. If both clutches were of the first bird, what killed the embryos in the first clutch and how did the bird know development had stopped and laid a second larger clutch in the same nest?

Northern Parula (*Parula americana*). On 2 May 1980 Ed and Jean Schulenberg and I observed a pair of parula warblers carrying nesting material to a nearly completed nest in Schermerhorn Park (Galena City Park), Cherokee County, Kansas. The nest was in a clump of hanging leaves about 10 feet above the ground in an oak tree. Many catkins were hanging from the tree and it had only started to leaf; however, a horizontal branch of the tree had failed to shed its leaves the previous fall and the warblers were constructing their nest in the center of the largest clump of these dead, hanging leaves.

Ed Schulenberg succeeded in obtaining several photographs of the female as she added finishing touches of webbing nesting material to the nest.

Gene and Eulalia Lewis and others observed another parula carrying nesting material on 4 May 1980 northwest of Lowell along Shoal Creek.

Detailed records maintained by Lena Qualls of Lowell lists 2 previously unpublished nesting records in this area. One on 19 June 1966, "first nest, in tall sycamore tree on Shoal Creek, adult feeding young". The second on 21 May 1971, "female building, we watched her and found nest in tall sycamore tree".

Parulas are one of our more common resident warblers in eastern Kansas; however, nests are well concealed and not often found.

Yellow-throated Warbler (*Dendroica dominica*). On 2 May 1980, Ed and Jean Schulenberg and I observed a pair of Yellow-throated Warblers along Shoal Creek in Schermerhorn Park (Galena City Park), Cherokee County, Kansas. The pair appeared to be territorial centering around a sycamore tree overhanging Shoal Creek.

I returned to the tree with my camera the afternoon of 3 May 1980 and found the birds had begun construction of a nest in the sycamore. The nest was about 35 feet up, cradled in a multiple branch fork far out near the end of a limb. Nest material appeared to be thin grass, small fine pieces of bark, lichen and moss from an overhanging rocky ledge and tent caterpillar webbing. Both birds assisted in the construction but one sang frequently, presumably the male, and made fewer trips with nesting material. The nest appeared about one third complete by evening. Ed and Jean Schulenberg with an assortment of cameras and telephoto lenses were at the tree the morning of 4 May 1980 and obtained more pictures as the pair gathered tent caterpillar webbing from a web approximately 100 yards from the nest.

At mid-morning the nest was visited by a female Brown-headed Cowbird (*Molothrus ater*) that sat on and body shaped the developing nest for about 10 seconds. It is not known whether an egg was deposited; however, the warblers were not visibly disturbed when they returned to the nest with additional nesting material.

Goss (1891. History of the Birds of Kansas, G. W. Crane & Co., Topeka) observed this warbler on several occasions at Neosho Falls, Woodson County, but it is not

known whether it still occurs there. In recent years it has been observed consistently from the Kansas City region usually in early May.

The first state specimens were taken in Cherokee County by Jim Rising on 18 May 1968 (1969. Rising and Niles, *Kansas Ornith. Soc. Bull.*, 20:7-8). An additional specimen was obtained in Lyon County by David Parmalee on 13 April 1970 (1971. Parmelee, *Kansas Ornith. Soc. Bull.*, 22:8). This is, to our knowledge, the first recording nesting record of this species in Kansas. Kansas Ornithological Society members recorded at least 11 and possibly 14 Yellow-throated Warblers on 3 and 4 May in and within 5 miles of Schermerhorn Park. *Marvin D. Schwilling, Fish and Game Office, Emporia, Kansas 66801, and Ed and Jean Schulenberg, Route 1, Admire, Kansas 66830.*

Arctic Loon in Cowley County, Kansas.—On 23 November 1976 I observed a small loon swimming near the south shore of Winfield City Lake, 13 km N and 10.5 km E of Winfield, Cowley County, Kansas. The bird appeared hardly larger than the Mallards (*Anas platyrhynchos*) with which it associated, and seemed to ride higher in the water with its neck more arched than any Common Loons (*Gavia immer*) I have observed. At distances within 300 m the pale tips of its dorsal feathers gave its back the "scaly" appearance typical of Arctic Loons (*Gavis arctica*) in juvenal plumage (1962. Palmer, *Handbook of North American Birds*, Vol. 1, Yale Univ. Press, p 44). Furthermore, its bill appeared evenly tapered but more slender than that of the Common Loon, giving the bird an almost grebe-like profile. Its crown, nape and hindneck were distinctly grayish, clearly contrasting with its darker back and a dark vertical stripe down the side of its neck. Palmer (*op. cit.*, p 42) mentions such coloration in his description of the juvenal plumage of the Arctic Loon, and the presence of this pattern would seem diagnostic. I returned to the lake on 24 November 1976, accompanied by Mrs. C. S. Chaplin and Mrs. N. H. White, Jr., and watched the loon under clear skies from 1430 to 1520, once from a distance of 100 m or less (at which time the fine blackish streaks on the sides of the bird's otherwise white upper breast were clearly discernible). On 26 November 1976 a final observation was made by my brother Kent, myself, and Max C. Thompson, who concurred with my identification.

The Arctic Loon's diving method differed from that of Common Loons I have observed. With moderate winds (15-25 km-hr), the Arctic Loon dived by arching upward and then down into the water headlong, as pochards (*Aythya*) do; Common Loons tend to submerge much less vigorously under similar conditions. When the water was calmer (as on 24 November), the Arctic Loon dived without so much upward thrust, but still entered the water more forcefully than Common Loons I have seen.

This is the only Cowley County sighting of an Arctic Loon (1978. Seibel, *Wichita Audubon Soc., Misc. Publ. No. 1*) and apparently is the only record of the species in the southern half of Kansas and just the fourth record for the entire state. Single birds were seen by L. K. Edmunds at the River Pond State Park, Tuttle Creek Reservoir in Riley County on 13 November 1965 and again on 23 October 1966; and 1 bird was shot (purportedly from a group of 6) by a hunter at Wilson Reservoir, Russell County in late October 1970 (1972. Schwilling, *Kansas Ornithol. Soc. Bull.* 23:13-14).

I thank Max C. Thompson for help in the field and for reading an early draft of this paper. *David E. Seibel, Museum of Natural History, University of Kansas, Lawrence, KS 66045.*

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