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### THE WINTER BIRD COUNT FOR 1988

John L. Zimmerman

The mean high and low temperatures for the record-setting 36 counts taken across Kansas this year were 49° and 25°F, respectively. General weather was pleasant, with 86% of the counts reporting clear or mostly clear skies and only Scott Lake even hinting at precipitation. And the weather had been like that for some time prior to count week. As a result of these mild conditions, waters remained open and waterfowl were present in relatively large numbers and satisfactory diversity all across the state, in spite of the fact that many ponds and shallow lakes had become dry even prior to fall migration. Common Loons occurred at Hillsdale Lake and Junction City. Pied-billed Grebes were identified on five counts and Junction City and Lake Perry also found Horned Grebes. Six counts had American White Pelicans and five counts had Double-crested Cormorants. Blue-winged Teal still lingered at Baldwin City and Parsons. Red-breasted Mergansers were seen at Lawrence and Topeka, and Hooded Mergansers occurred on eight counts, including Linn County with 80 individuals and Udall-Winfield where 61 were seen! The only group of ducks not represented in the state were the scoters (but we had exceptionally good scoter encounter last year). Because of the low waterfowl production north of us and the drought-reduced habitat all around us, I would have predicted one of the worst of years for waterfowl. But it was one of the best.

Although I have no objective data, it appeared to me that the sunflowers had an excellent year in Kansas (and the rest of the weeds did pretty well too), and hence I expected the counts of finches and sparrows to rank among the best of years. But throughout most of the state (there were some exceptions) both the variety and numbers of these species were low, making it about the worst of years. Can you accept Baldwin City with just 1 Pine Siskin? Or Emporia with only 318 American Tree Sparrows? Rufous-sided Towhees and White-throated Sparrows occurred on only 13 counts, Fox Sparrows on only 7. Jim Rising, who came back to do the Baxter Springs count this year, suggested that the drought had provided firm field conditions so that almost all the grain crops were harvested early, which in turn increased the pressure on the weed seed crop, decreasing its supply earlier in the season than normal, causing many of the granivorous birds to seek food elsewhere.

But there is no Dickensonian dichotomy in my overall appraisal of the Kansas counts this year. It was one of the best of years. Two new species were added to the overall Kansas list: Barrow's Goldeneye at Cedar Bluff and a Brewer's Sparrow at Cimarron National Grasslands. Tom Shane of Salina was involved in the discovery of both of these species, so if you're tired of the same old species on your count, perhaps you should invite Tom to participate. A Pomarine Jaeger, which would have also been new, missed count day at Winfield-Udall but had been seen during the count period (although this record awaits substantiating evidence). Wild Turkeys are doing well and were found on 17 counts. And Carolina Wrens have come back to their former glory, being present on 20 counts (86% of the counts east of 98th meridian and even as far west as Garden City). Best of all, a record number of participants, 671 people, were out and about on the Kansas winter counts this year.

Other records of note were a total of over 100 Bonaparte's Gulls along the southern and eastern borders of the state (Linn County, Baxter Springs, and Arkansas City), and a completely albino Red-tailed Hawk, that was back for the fourth season on the Fostoria count. Twelve counts had Ruby-crowned Kinglets, and I suspect that more of the counts would have had this species if Reno County-Yoder had not been hoarding 57 individuals within their count circle! The presence of the Mountain Bluebird within 10 count circles cannot be considered a state-wide invasion, but the pattern in their distribution is interesting. They occurred northward through the Flint Hills (Halstead-Newton, Emporia, Junction City, Manhattan, and Fostoria) and then westward to the Byron Walker Wildlife Management Area and Meade County and north to Cedar Bluff, Quivira National Wildlife Refuge, and Wilson Reservoir. Furthermore, Tom Cannon commented that the count of 411 Mountain Bluebirds at Wilson Reservoir was probably a conservative estimate. I suspect that these birds did not enter the state from the west, but rather moved northward from the normal wintering range in Oklahoma as a result of high population densities and our mild weather.

As always, Cimarron National Grasslands leads the list of counts with unique species (Burrowing Owl, Ladder-backed Woodpecker, Curve-billed Thrasher, Brewer's Sparrow, Lark Bunting, McCown's Longspur). Cedar Bluff (Greater Scaup, Barrow's Goldeneye), Emporia (Northern Goshawk, Smith's Longspur), Junction City (Peregrine Falcon, Glaucous Gull), and Scott Lake (Virginia Rail, Golden-crowned Sparrow) are tied for second with two unique species each. Eight counts had a single unique species — Arkansas City, Water Pipit; Baldwin, Snow Bunting; Hillsdale Lake, Osprey; Linn County, Common Yellowthroat; Parsons, Green-backed Heron; Oskaloosa-Perry Lake, Franklin's Gull; Udall-Winfield, Yellow-headed Blackbird; Wilson Reservoir, Ruddy Duck. On the other end of the spectrum, the following species were seen on at least 90% of the counts taken in the state: Northern Harrier, Red-tailed Hawk, American Kestrel, Rock Dove, Great Horned Owl, Red-bellied Woodpecker, Downy Woodpecker, Hairy Woodpecker, Northern Flicker, Horned Lark, Blue Jay, American Crow, White-breasted Nuthatch, American Robin, European Starling, Northern Cardinal, American Tree Sparrow, Harris' Sparrow, Dark-eyed Junco, American Goldfinch, House Sparrow.

This was the fortieth winter count published by the Kansas Ornithological Society; I just thought you ought to know that.

**Arkansas City.** 37° 02'N, 97° 02'W. Center intersection U.S. 77 and Arkansas River. Habitat coverage: cultivated fields 40%, riparian forest 35%, grassland 20%, residential areas 5%. 26 December 1988, 7:30 a.m. to 5 p.m., 49° to 59°F; Wind S, 15-40 m.p.h.; water open, cloudy. Sixteen observers in 7 parties. Total party-hours 54 (38 on foot, 16 by car) plus 2 hrs owling. Total party-miles 302 (37 on foot, 265 by car) and 38 miles owling.

Great Blue Heron 36, Canada Goose 3, Green-winged Teal 588, Mallard 290, Lesser Scaup 1, Common Merganser 1, Bald Eagle 29, Northern Harrier 13, Cooper's Hawk 2, Red-tailed Hawk 54, Golden Eagle 2, American Kestrel 21, Ring-necked Pheasant 12, Wild Turkey 29, Northern Bobwhite 71, Killdeer 20, Common Snipe 9, Bonaparte's Gull 70, Ring-billed Gull 575, Herring Gull 7, Rock Dove 108, Mourning Dove 3, Eastern Screech-owl 5, Great Horned Owl 6, Barred Owl 9, Belted Kingfisher 8, Red-headed Woodpecker 41, Red-bellied Woodpecker 75, Yellow-bellied Sapsucker 1, Downy Woodpecker 77, Hairy Woodpecker 6, Northern (Yellow-shafted) Flicker 49, Northern (Red-shafted) Flicker 5, Northern Flicker ssp. 30, Pileated Woodpecker 1, Horned Lark 30, Blue Jay 175, American Crow 542, Carolina Chickadee 574, Tufted Titmouse 101, White-breasted Nuthatch 39, Brown Creeper 18, Carolina Wren 12, Winter Wren 3, Golden-crowned Kinglet 11, Eastern Bluebird 94, American Robin 1074, Northern Mockingbird 9, Water Pipit 13 (no details — Ed.), Cedar Waxwing 35, Loggerhead Shrike 9, European Starling 1371, Yellow-rumped (Myrtle) Warbler 3, Northern Cardinal 265, Rufous-sided Towhee 3, American Tree Sparrow 299, Field Sparrow 5, Fox Sparrow 3, Song Sparrow 33, White-crowned Sparrow 14, Harris' Sparrow 1296, Dark-eyed (Slate-colored) Junco 899, Dark-eyed (Oregon) Junco 4, Red-winged Blackbird

1085, *Sturnella* sp. 69, Brewer's Blackbird 800, Common Grackle 1, Brown-headed Cowbird 3, Pine Siskin 1, American Goldfinch 473, House Sparrow 1165. Total 68 species (2 additional subspecies), about 12,788 individuals.

Walker Butin, Wallace Champeny, Beverly DuGay, Rick Goodrick, Joanne Hackerott, Pete Janzen, Dan Kilby, Mike Lesan, Jim Nickel, Jean Roark, Miriam Roark, Eddie Stegall, Donald Vannoy (compiler — 2458 Coolidge, Wichita, KS, 67204), Gerald Wiens, Joe Yoder, Gene Young.

**Baldwin.** 38° 47'N, 95° 16'W. Center junction U.S. 56 and U.S. 59. Habitat coverage: not given. 18 December 1988, 5:45 a.m. to 5:30 p.m., 24° to 60°F; Wind S, 10-15 m.p.h.; waters mostly frozen; scattered clouds. Fifteen observers in 6 parties and 1 observer at feeders. Total party-hours 43 (9 on foot, 34 by car) plus 2.5 hrs owling and 8 hrs at feeders. Total party-miles 361 (10 on foot, 351 by car) and 17 miles owling.

Great Blue Heron 1, Canada Goose 68, Mallard 4, Blue-winged Teal 2 (no details — Ed.), Gadwall 48, American Wigeon 6, Lesser Scaup 8, Common Goldeneye 27, Bufflehead 26, Northern Harrier 16, Sharp-shinned Hawk 2, Cooper's Hawk 1, Red-tailed Hawk 86, Red-tailed (Harlan's) Hawk 1, American Kestrel 49, Merlin 2, Northern Bobwhite 75, Killdeer 1, Ring-billed Gull 3, Rock Dove 51, Mourning Dove 26, Eastern Screech-owl 3, Great Horned Owl 9, Barred Owl 1, Long-eared Owl 1, Belted Kingfisher 6, Red-headed Woodpecker 35, Red-bellied Woodpecker 60, Yellow-bellied Sapsucker 7, Downy Woodpecker 81, Hairy Woodpecker 10, Northern (Yellow-shafted) Flicker 55, Northern (Red-shafted) Flicker 1, Northern Flicker ssp. 7, Horned Lark 196, Blue Jay 182, American Crow 268, Black-capped Chickadee 276, Tufted Titmouse 86, Red-breasted Nuthatch 1, White-breasted Nuthatch 45, Brown Creeper 5, Carolina Wren 7, Winter Wren 1, Golden-crowned Kinglet 11, Eastern Bluebird 229, American Robin 875, Northern Mockingbird 26, Cedar Waxwing 262, Loggerhead Shrike 21, European Starling 824, Northern Cardinal 244, American Tree Sparrow 432, Song Sparrow 28, Swamp Sparrow 1, White-crowned Sparrow 27, Harris' Sparrow 148, Dark-eyed (Slate-colored) Junco 481, Dark-eyed (Oregon) Junco 1, Lapland Longspur 156, Snow Bunting 1 (excellent details — Ed.), Red-winged Blackbird 17, Eastern Meadowlark 11, Western Meadowlark 2, *Sturnella* sp. 202, Brewer's Blackbird 4, Great-tailed Grackle 1 (excellent details — Ed.), Common Grackle 1, Brown-headed Cowbird 1, Purple Finch 15, Pine Siskin 1, American Goldfinch 159, House Sparrow 559. Total 68 species (3 additional subspecies), about 6,586 individuals.

Gennie Agin, Dorothy Akin, Margaret and Roger Boyd (compiler — Biology Dept., Baker Univ., Baldwin City, KS, 66006), Cal Cink, Steve Crawford, Effie Edwards, Katherine Kelley, Greg Kramos, Mike Mueller, Ruth Scott, M. Walker, Joyce and Ron Wolf (Baldwin Bird Club).

**Baxter Springs.** 37° 10'N, 94° 50'W. Center Riverton, KS. Habitat coverage: riparian forest 35%, cultivated fields 20%, oldfields and fencerows 20%, lakes and rivers 5%, swamps 5%, marsh 5%, upland deciduous forest 4%, grassland 3%, residential areas 2%, coniferous stands 1%. 23 December 1988, 7:15 a.m. to 5:15 p.m., 30° to 63°F; Wind NW, 0-5 m.p.h.; all water open, clear in A.M., partly cloudy in P.M. One observer in 1 party. Total party-hours 10 (8 on foot, 2 by car). Total party-miles 60 (10 on foot, 50 by car).

Double-crested Cormorant 1, Great Blue Heron 3, Green-winged Teal 20, Mallard 277, Northern Shoveler 13, Gadwall 8, American Wigeon 5, Redhead 1, Ring-necked Duck 6, Lesser Scaup 15, Common Goldeneye 26, Bufflehead 2, Common Merganser 1, Bald Eagle 1, Northern Harrier 2, Cooper's Hawk 1, Red-shouldered Hawk 3, Red-tailed Hawk 15, Red-tailed (Harlan's) Hawk 1, Rough-legged Hawk 1, American Kestrel 5, Northern Bobwhite 2, Killdeer 3, Bonaparte's Gull 19, Ring-billed Gull 32, Rock Dove 21, Mourning Dove 3, Great Horned Owl 1, Barred Owl 2, Belted Kingfisher 4, Red-headed Woodpecker 1, Red-bellied Woodpecker 13, Yellow-bellied Sapsucker 1, Downy Woodpecker 10, Hairy Woodpecker 2, Northern (Yellow-shafted) Flicker 6, Northern Flicker ssp. 5, Pileated Woodpecker 2, Blue Jay 27, American Crow 17, Caro-

lina Chickadee 20, Tufted Titmouse 26, White-breasted Nuthatch 1, Brown Creeper 2, Carolina Wren 4, Golden-crowned Kinglet 4, Eastern Bluebird 21, American Robin 64, Northern Mockingbird 2, Cedar Waxwing 15, Loggerhead Shrike 6, European Starling 550, Northern Cardinal 28, American Tree Sparrow 10, Field Sparrow 1, Savannah Sparrow 3 (good details — Ed.), Fox Sparrow 1, Song Sparrow 9, White-throated Sparrow 5, White-crowned Sparrow 1, Dark-eyed (Slate-colored) Junco 42, Red-winged Blackbird 5510, Eastern Meadowlark 5, Western Meadowlark 1, *Sturnella* sp. 26, Common Grackle 2026, Brown-headed Cowbird 16, American Goldfinch 18, House Sparrow 18. Total 66 species (1 additional subspecies), about 9,013 individuals.

James D. Rising (compiler — Dept. Zoology, Univ. Toronto, Toronto, ONT, M5S 1A1, Canada).

**Byron Walker Wildlife Management Area.** 37° 38'N, 98° 16'W. Center headquarters of the Byron Walker Wildlife Management Area. Habitat coverage: cultivated fields 42%, riparian woodland 25%, grassland 8%, lakes and rivers 8%, oldfields and fencerows 8%, marsh 8%. 31 December 1988, 7:30 a.m. to 5:30 p.m., 26° to 51°F; Wind S, 0-5 m.p.h.; still water frozen in AM only; cloudy AM, clear PM. Twelve observers in 3 parties. Total party-hours 18 (4 on foot, 14 by car). Total party-miles 162 (3 on foot, 159 by car).

Great Blue Heron 3, Canada Goose 2, Mallard 25, Bald Eagle 2, Northern Harrier 16, Cooper's Hawk 1, Red-shouldered Hawk 1 (no details — Ed.), Red-tailed Hawk 44, Rough-legged Hawk 3, American Kestrel 31, Prairie Falcon 2, Ring-necked Pheasant 14, Wild Turkey 4, Ring-billed Gull 2, Rock Dove 33, Great Horned Owl 1, Belted Kingfisher 2, Red-headed Woodpecker 1, Red-bellied Woodpecker 12, Downy Woodpecker 10, Hairy Woodpecker 1, Northern (Yellow-shafted) Flicker 14, Northern (Red-shafted) Flicker 4, Northern Flicker ssp. 8, Horned Lark 184, Blue Jay 1, American Crow 78, Black-capped Chickadee 64, Tufted Titmouse 1, White-breasted Nuthatch 7, Eastern Bluebird 10, Mountain Bluebird 2, American Robin 3, Loggerhead Shrike 4, European Starling 695, Northern Cardinal 59, Rufous-sided Towhee 2, American Tree Sparrow 771, Field Sparrow 2, Song Sparrow 9, White-crowned Sparrow 1, Harris' Sparrow 337, Dark-eyed (Slate-colored) Junco 84, Dark-eyed (Oregon) Junco 7, Red-winged Blackbird 2708, Eastern Meadowlark 66, Western Meadowlark 5, Brown-headed Cowbird 1, American Goldfinch 82, House Sparrow 100. Total 47 species (2 additional subspecies), about 5,519 individuals.

Wilma Hawkins, Charlotte Knapic, Julie Krehbiel, Jack and June Roth, Charlie and Getha Shoemake, Alan and Kelly Stark, Byron (compiler — 235 West Copeland, Kingman, KS, 67068) and June Walker, Robert Wood.

**Camp Naish, Wyandotte Co.** 39° 04'N, 94° 52' W. Center corner of sections 21, 22, 27, and 28, T11S, R23E. Habitat coverage: riparian forest 45%, upland deciduous forest 35%, oldfields and fencerows 10%, grassland 5%, residential areas 3%, swamp 3%, lakes and rivers 1%. 30 December 1988, 6:30 a.m. to 5 p.m., 28° to 46°F; Wind SW, about 8 m.p.h.; ice cover about 40%; clear. Eight observers in 2 parties. Total party-hours 17 (16 on foot, 1 by car) plus 1 hr owling. Total party-miles 17 (13 on foot, 4 by car) and 1.5 miles owling (of which, 0.5 mi by foot).

Canada Goose 30, Red-tailed Hawk 5, American Kestrel 2, Northern Bobwhite 18, Rock Dove 41, Eastern Screech-owl 3, Great Horned Owl 1, Red-bellied Woodpecker 23, Downy Woodpecker 18, Hairy Woodpecker 8, Northern (Yellow-shafted) Flicker 4, Northern Flicker ssp. 10, Blue Jay 30, American Crow 14, Black-capped Chickadee 103, Tufted Titmouse 31, White-breasted Nuthatch 22, Brown Creeper 1, Carolina Wren 2, Golden-crowned Kinglet 1, Eastern Bluebird 7, American Robin 5, Cedar Waxwing 35, European Starling 52, Northern Cardinal 40, Rufous-sided Towhee 3, American Tree Sparrow 4, Song Sparrow 1, Dark-eyed Junco ssp. 73, American Goldfinch 33, House Sparrow 44. Total 30 species, about 664 individuals.

Gayle Hays, Ed Hubert, Alexis Powell, David Reber, Jim Roth, Stan Roth (compiler — Lawrence High School, 1901 Louisiana St., Lawrence, KS, 66046-2999), Alison Smith, Liz Smith.

**Cedar Bluff Reservoir.** 38° 47'N, 99° 46'W. Center of the reservoir, 2 mi W of the dam. Habitat coverage: riparian woodland 30%, lakes and rivers 25%, grassland 15%, coniferous stands 10%, cultivated fields 10%, oldfields and fencerows 10%. 8 January 1989, 8 a.m. to 5 p.m., 6° to 35°F; Wind SW, 0-10 m.p.h.; waters partly frozen; clear. Seven observers in 3 parties. Total party-hours 26 (9 on foot, 17 by car) plus 1.5 hrs owling. Total party-miles 256 (8 by foot, 248 by car) and 2.5 miles owling.

Great Blue Heron 1, Canada Goose 1450, Green-winged Teal 2, Mallard 7506, Northern Pintail 15, Gadwall 3, American Wigeon 16, Greater Scaup 2 (excellent details — Ed.), Lesser Scaup 9, Common Goldeneye 150, Barrow's Goldeneye 1 (excellent details — Ed.), Common Merganser 35, Bald Eagle 13, Northern Harrier 14, Sharp-shinned Hawk 2, Cooper's Hawk 2, Red-tailed Hawk 15, Rough-legged Hawk 10, Golden Eagle 4, American Kestrel 19, Prairie Falcon 2, Ring-necked Pheasant 12, Wild Turkey 42, American Coot 3, Ring-billed Gull 15, Herring Gull 12, Rock Dove 21, Mourning Dove 1, Eastern Screech-owl 11, Great Horned Owl 14, Belted Kingfisher 1, Downy Woodpecker 6, Hairy Woodpecker 3, Northern (Yellow-shafted) Flicker 13, Northern (Red-shafted) Flicker 21, Northern Flicker ssp. 25, Horned Lark 430, Black-billed Magpie 37, American Crow 26, Black-capped Chickadee 50, White-breasted Nuthatch 4, Brown Creeper 2, Marsh Wren 1, Golden-crowned Kinglet 3, Mountain Bluebird 125, Townsend's Solitaire 1, American Robin 230, Northern Shrike 5, European Starling 850, Northern Cardinal 1, American Tree Sparrow 900, Song Sparrow 19, White-crowned Sparrow 9, Harris' Sparrow 19, Dark-eyed (Slate-colored) Junco 55, Dark-eyed (Oregon) Junco 90, Dark-eyed (White-winged) Junco 1, Dark-eyed Junco ssp. 300, Lapland Longspur 60, Red-winged Blackbird 385, Western Meadowlark 61, Brown-headed Cowbird 60, American Goldfinch 58, House Sparrow 280. Total 59 species (3 additional subspecies), about 13,533 individuals.

Dan LaSelle, Sara Norman, Mike Rader, Marvin Schwilling, Diane Seltman, Scott Seltman (compiler — RR, Nekoma, KS, 67559), Tom Shane.

**Cimarron National Grasslands.** 37° 07'N, 101° 52'W. Center 7 mi N, 2 mi E of Elkhart, KS. Habitat coverage: sandsage prairie 30%, riparian woodland 30%, cultivated fields 15%, rocky slopes 10%, residential areas 10%, marsh 5%. 31 December 1988, 7 a.m. to 5 p.m., 30° to 49°F; Wind W-SW, 0-5 m.p.h.; some water open; clear. Sixteen observers in 5 parties. Total party-hours 43.5 (14 on foot, 29.5 by car) plus 1.5 hrs owling. Total party-miles 382.5 (16.5 on foot, 366 by car) and 15 miles owling.

Common Merganser 8, Bald Eagle 4, Northern Harrier 50, Sharp-shinned Hawk 4, Cooper's Hawk 1, Red-tailed Hawk 21, Ferruginous Hawk 30, Rough-legged Hawk 15, *Buteo* sp. 4, Golden Eagle 4, American Kestrel 32, Merlin 5, Prairie Falcon 7, Ring-necked Pheasant 15, Wild Turkey 2, Northern Bobwhite 47, Scaled Quail 34, Rock Dove 38, Mourning Dove 15, Common Barn-owl 2, Eastern Screech-owl 2, Great Horned Owl 13, Burrowing Owl 1 (good details — Ed.), Ladder-backed Woodpecker 5, Downy Woodpecker 16, Hairy Woodpecker 5, Northern Flicker ssp. 45, Horned Lark 8623, Black-billed Magpie 103, American Crow 19, Black-capped Chickadee 1, Red-breasted Nuthatch 1, White-breasted Nuthatch 7, Brown Creeper 2, Bewick's Wren 3, Ruby-crowned Kinglet 2, American Robin 8, Northern Mockingbird 2, Curve-billed Thrasher 1, Cedar Waxwing 12, Northern Shrike 2, Loggerhead Shrike 16, European Starling 169, American Tree Sparrow 924, Brewer's Sparrow 1 (excellent details — Ed.), Field Sparrow 1, Vesper Sparrow 2, Lark Bunting 31, Song Sparrow 52, Lincoln's Sparrow 1, White-crowned Sparrow 1158, Harris' Sparrow 5, Dark-eyed Junco ssp. 1141, McCown's Longspur 7, Lapland Longspur 354, Chestnut-collared Longspur 15, Red-winged Blackbird 767, Western Meadowlark 561, House Finch 157, Pine Siskin 49, American Goldfinch 87, House Sparrow 885. Total 61 species, about 15,594 individuals. Seen in area during count period, but not on count day — Short-eared Owl, Purple Finch.

D. Bryan, T. Cable, W. Champeny, E. McHugh, L. Moore, S. Norman, S. Patti (compiler — 552 W. Belden Ave., Chicago, IL, 60614), G. Pittman, R. Rucker, D. Seltman, S. Seltman, J. Shackford, T. Shane, L. Smith, D. Tregellas, D. Wiggins.

**Dodge City.** 37° 46'N, 99° 58'W. Center campus of Saint Mary of the Plains College. Habitat coverage: cultivated fields 58%, grassland 20%, residential areas 15%, lakes and rivers 7%. 17 December 1988, 8 a.m. to 4:30 p.m., 20° to 49°F; Wind S, 12 m.p.h.; little ice cover; clear. Fourteen observers in 4 parties and 7 observers at feeders. Total party-hours 32.5 (0.5 on foot, 32 by car) plus 35 hrs at feeders. Total party-miles 242.5 (0.5 on foot, 242 by car).

Canada Goose 4, Mallard 128, Bald Eagle 1, Northern Harrier 28, Red-tailed Hawk 16, Ferruginous Hawk 4, Rough-legged Hawk 2, Golden Eagle 2, American Kestrel 13, Prairie Falcon 3, Northern Bobwhite 8, Rock Dove 180, Great Horned Owl 1, Belted Kingfisher 2, Downy Woodpecker 5, Hairy Woodpecker 2, Northern Flicker ssp. 27, Horned Lark 1696, Blue Jay 18, Black-billed Magpie 55, American Crow 123, White-breasted Nuthatch 4, American Robin 19, Northern Mockingbird 1, Brown Thrasher 1, European Starling 592, Northern Cardinal 12, American Tree Sparrow 16, White-throated Sparrow 2, White-crowned Sparrow 17, Harris' Sparrow 87, Dark-eyed (Slate-colored) Junco 160, Lapland Longspur 25, Western Meadowlark 408, Common Grackle 1, Purple Finch 2, House Finch 159, Pine Siskin 6, American Goldfinch 22, Evening Grosbeak 6, House Sparrow 1049. Total 41 species, about 4,907 individuals. Seen in area during count period, but not on count day — Cedar Waxwing.

Marg Andrews, Noel Ary, Lois Bryson, Margaret Cole, George Cole, Eileene Crook, Sheldon Crook, Joleen Fromm (compiler — 2402 5th Ave., Dodge City, KS, 67801), Lois Hunter, Wallace Hunter, Jean Kilpatrick, R. G. Nonamaker, Janell O'Keefe, Chester Pennington, Virginia Pennington, Kent Ross, Sr., Patricia Stanley, Skip Stark, Shirley Vieux, Ben Winkleblack, Judi Young.

**Emporia.** 38° 27'N, 96° 05'W. Center 1 mi S Lang, KS. Habitat coverage: riparian forest 55%, grassland 20%, residential areas 8%, cultivated fields 5%, coniferous stands 1%, marsh 1%. 18 December 1988, 6:45 a.m. to 5:30 p.m., 30° to 63°F; Wind SW, 5-15 m.p.h.; all water open; clear. Twenty-six observers in 7 parties and 1 observer at feeders. Total party-hours 63 (35 on foot, 28 by car) and 4 hrs at feeders. Total party-miles 459 (30 on foot, 429 by car).

Great Blue Heron 19, Canada Goose 150, Green-winged Teal 7, Mallard 298, Northern Pintail 1, Gadwall 7, American Wigeon 50, Canvasback 48, Redhead 10, Ring-necked Duck 51, Common Goldeneye 33, Bufflehead 12, Common Merganser 34, Northern Harrier 61, Sharp-shinned Hawk 1, Cooper's Hawk 1, Northern Goshawk 1 (excellent details — Ed.), Red-tailed Hawk 94, Red-tailed (Harlan's) Hawk 3, Rough-legged Hawk 4, American Kestrel 30, Prairie Falcon 1, Ring-necked Pheasant 1, Greater Prairie-chicken 31, Northern Bobwhite 105, Ring-billed Gull 75, Rock Dove 165, Mourning Dove 25, Eastern Screech-owl 3, Great Horned Owl 7, Barred Owl 6, Belted Kingfisher 3, Red-headed Woodpecker 125, Red-bellied Woodpecker 66, Yellow-bellied Sapsucker 6, Downy Woodpecker 75, Hairy Woodpecker 29, Northern (Yellow-shafted) Flicker 67, Northern (Red-shafted) Flicker 11, Pileated Woodpecker 2, Horned Lark 275, Blue Jay 140, American Crow 127, Black-capped Chickadee 212, Tufted Titmouse 82, Red-breasted Nuthatch 8, White-breasted Nuthatch 74, Brown Creeper 19, Carolina Wren 7, Bewick's Wren 1, Winter Wren 1, Golden-crowned Kinglet 7, Ruby-crowned Kinglet 6, Eastern Bluebird 45, Mountain Bluebird 4, American Robin 105, Northern Mockingbird 1, Cedar Waxwing 6, Loggerhead Shrike 18, European Starling 7085, Northern Cardinal 155, American Tree Sparrow 318, Field Sparrow 3, Song Sparrow 12, Lincoln's Sparrow 1, White-crowned Sparrow 6, Harris' Sparrow 123, Dark-eyed (Slate-colored) Junco 215, Dark-eyed (Oregon) Junco 2, Lapland Longspur 153, Smith's Longspur 12 (excellent details — Ed.), Red-winged Blackbird 235, Eastern Meadowlark 30, *Sturnella* sp. 202, Rusty Blackbird 5, Common Grackle 1, Brown-headed Cowbird 56, Purple Finch 3, American Goldfinch 83, House Sparrow 543. Total 76 species (3 additional subspecies), about 12,099 individuals.

Frank Black, Caleb, Laura, and Troy Dodge, Roger and Sherry Ferguson, Loyd Fox, Mary Headrick, Allen Honeyman, Brandon, Brian, and Marvin Kuehn, Gil and Marie Leisman, Lotta and Wes Matson, Jim and Tanner Mayhew, Paul McKnab, Drake Miller,

Jean Schulenberg (compiler — RR2, Box 36, Admire, KS, 66830), Marvin Schwilling, Greg Stuart, Dena and Kathleen Tabor, Alan Weinbrenner.

**Fostoria.** 39° 30'N, 96° 30'W. Center 3 mi N Fostoria, KS. Habitat coverage: grassland 55%, oldfields and fencerows 25%, cultivated fields 14%, upland deciduous forest 5%, lakes and rivers 1%. 3 January 1989, 8 a.m. to 5 p.m., 28° to 46°F; Wind NW, 8-10 m.p.h.; waters partly frozen; mostly clear. Two observers in 1 party. Total party-hours 9 (1 on foot, 8 by car) and 2 hrs at feeders. Total party-miles 38 (2 on foot, 36 by car).

Mallard 2, Bald Eagle 2, Cooper's Hawk 2, Red-tailed Hawk 6, Rough-legged Hawk 1, American Kestrel 9, Northern Bobwhite 11, Rock Dove 6, Mourning Dove 34, Eastern Screech-owl 1, Great Horned Owl 1, Red-headed Woodpecker 1, Red-bellied Woodpecker 6, Downy Woodpecker 4, Hairy Woodpecker 1, Northern (Yellow-shafted) Flicker 9, Northern (Red-shafted) Flicker 1, Blue Jay 40, American Crow 600, Black-capped Chickadee 68, Tufted Titmouse 1, White-breasted Nuthatch 2, Brown Creeper 2, Eastern Bluebird 19, Mountain Bluebird 7, American Robin 262, Loggerhead Shrike 2, European Starling 4000, Northern Cardinal 16, American Tree Sparrow 57, Harris' Sparrow 32, Dark-eyed (Slate-colored) Junco 73, Dark-eyed (Oregon) Junco 8, Western Meadowlark 11, American Goldfinch 42, House Sparrow 600. Total 34 species (2 additional subspecies), about 5,939 individuals. Seen in area during count period, but not on count day — Ring-necked Pheasant, Pine Siskin.

Eunice Webster (compiler — P. O. Box 5, Fostoria, KS, 66426), Howard Webster.

**Garden City.** 37° 55'N, 100° 47'W. Center 4 mi SE junction U.S. 83 spur and U.S. 50. Habitat coverage: cultivated fields 33%, sandsage prairie 25%, residential areas 16%, riparian woodland 15%, oldfields and fencerows 8%, rivers (and sand pits) 3%. 18 December 1988, 8 a.m. to 5 p.m., 24° to 66°F; Wind S, 0-5 m.p.h.; clear; waters open. Nine observers in 2 parties and 5 observers at feeders. Total party-hours 16 (0.5 on foot, 15.5 by car) and 8 hrs at feeders. Total party-miles 136 (1 on foot, 135 by car).

Great Blue Heron 3, Canada Goose 20, Wood Duck 5, Green-winged Teal 402, Mallard 715, Northern Pintail 4, American Wigeon 18, Bald Eagle 10, Northern Harrier 20, Sharp-shinned Hawk 1, Red-tailed Hawk 14, Ferruginous Hawk 5, Rough-legged Hawk 7, *Buteo* sp. 8, American Kestrel 10, Merlin 1, Prairie Falcon 2, Ring-necked Pheasant 19, Northern Bobwhite 76, Scaled Quail 27, Killdeer 5, Rock Dove 406, Eastern Screech-owl 1, Great Horned Owl 20, Red-bellied Woodpecker 1, Downy Woodpecker 5, Hairy Woodpecker 1, Northern (Yellow-shafted) Flicker 2, Northern (Red-shafted) Flicker 33, Horned Lark 919, Blue Jay 9, Black-billed Magpie 89, American Crow 20, Black-capped Chickadee 10, Red-breasted Nuthatch 2, White-breasted Nuthatch 7, Brown Creeper 1, Carolina Wren 2, Northern Mockingbird 4, European Starling 10,731, Rufous-sided Towhee 3, American Tree Sparrow 141, Field Sparrow 4, White-throated Sparrow 1, White-crowned Sparrow 229, Harris' Sparrow 8, Dark-eyed Junco ssp. 138, Lapland Longspur 1, Western Meadowlark 163, Common Grackle 2, Brown-headed Cowbird 1, Purple Finch 1, House Finch 120, Pine Siskin 8, American Goldfinch 4, House Sparrow 2072. Total 54 species (1 additional subspecies), about 16,531 individuals. Seen in area during count week, but not on count day — Northern Shrike, Loggerhead Shrike.

Caverly Baffa, Dan Baffa, Cathy Fenton, Nell Jones, Kathy Olson, Libby Olson, Mary Olson, Pete Olson, Lee Osterbuhr, Marie Osterbuhr (compiler — 1103 Gillespie Pl., Garden City, KS, 67846), Betty Rich, Leonard Rich, Bob Scott, Emaline Scott.

**Halstead-Newton.** 38° 04'N, 97° 28'W. Center 5.75 mi NE Halstead, KS. Habitat coverage: cultivated fields 50%, riparian woodland 15%, upland deciduous forest 12%, oldfields and fencerows 8%, grasslands 6%, residential areas 5%, lakes and rivers 3%, marsh 1%. 17 December 1988, 7:15 a.m. to 5 p.m., 21° to 51°F; Wind S, <5 m.p.h.; water partly open, no snow cover, clear. Nineteen observers in 5 parties. Total party-hours 44.25 (27.5 on foot, 16.75 by car). Total party-miles 229 (17 on foot, 212 by car).

Great Blue Heron 1, Canada Goose 16, Mallard 1, Northern Harrier 6, Sharp-shinned

Hawk 1, Cooper's Hawk 2, Red-tailed Hawk 71, Rough-legged Hawk 5, American Kestrel 32, Prairie Falcon 2, Ring-necked Pheasant 32, Northern Bobwhite 85, Killdeer 4, Common Snipe 10, Rock Dove 44, Mourning Dove 25, Great Horned Owl 12, Belted Kingfisher 7, Red-bellied Woodpecker 27, Downy Woodpecker 53, Hairy Woodpecker 10, Northern (Yellow-shafted) Flicker 48, Northern (Red-shafted) Flicker 11, Northern Flicker ssp. 37, Horned Lark 76, Blue Jay 129, American Crow 585, Black-capped Chickadee 299, Tufted Titmouse 29, White-breasted Nuthatch 23, Brown Creeper 5, Carolina Wren 5, Winter Wren 3, Golden-crowned Kinglet 14, Ruby-crowned Kinglet 4, Eastern Bluebird 8, Mountain Bluebird 25, American Robin 413, Northern Mockingbird 4, Brown Thrasher 1, Cedar Waxwing 43, Loggerhead Shrike 10, European Starling 1407, Yellow-rumped (Myrtle) Warbler 3, Northern Cardinal 124, Rufous-sided Towhee 6, American Tree Sparrow 487, Fox Sparrow 1, Song Sparrow 17, White-crowned Sparrow 2, Harris' Sparrow 591, Dark-eyed (Slate-colored) Junco 449, Dark-eyed (Oregon) Junco 2, Red-winged Blackbird 561, Eastern Meadowlark 10, Western Meadowlark 5, *Sturnella* sp. 361, Brown-headed Cowbird 18, Purple Finch 2, Pine Siskin 1, American Goldfinch 35, House Sparrow 47. Total 58 species (2 additional subspecies), about 6,347 individuals.

Nadine Abrahams, Bud Akin, Monica Cedeno, Marion Deckert, Sherry Deem, Gregg Friesen, Lorna Harder, Pete Janzen, Jay Newton (compiler — Box 671, Newton, KS, 67114), Joan Phelan, Dwight Platt, Bob Regier, Tim Regier, Richard Schmidt, Rick Schroeder, Carolyn Schwab, John Torline, Nada Voth, Joe Yoder.

**Hays.** 38° 41'N, 99° 23'W. Center 3.5 mi S, 4 mi W of Hays, KS. Habitat coverage: riparian woodland 30%, oldfields and fencerows 20%, cultivated fields 20%, residential areas 15%, lakes and rivers 10%, grassland 5%. 31 December 1988, 8 a.m. to 5:30 p.m., 17° to 45°F; Wind SW, 0-5 m.p.h.; waters partly frozen. Fourteen observers in 3 parties and 5 observers at feeders. Total party-hours 22 (9 on foot, 13 by car) plus ? hrs at feeders. Total party-miles 196 (13 on foot, 183 by car).

Northern Harrier 6, Sharp-shinned Hawk 1, Red-tailed Hawk 23, Ferruginous Hawk 5, Rough-legged Hawk 2, *Buteo* sp. 2, American Kestrel 20, Ring-necked Pheasant 26, Wild Turkey 19, Northern Bobwhite 2, Rock Dove 361, Mourning Dove 4, Great Horned Owl 6, Red-bellied Woodpecker 6, Yellow-bellied Sapsucker 1, Downy Woodpecker 12, Hairy Woodpecker 6, Northern (Yellow-shafted) Flicker 19, Northern (Red-shafted) Flicker 3, Horned Lark 1975, Blue Jay 25, Black-billed Magpie 8, American Crow 99, Black-capped Chickadee 65, Red-breasted Nuthatch 1, White-breasted Nuthatch 3, Brown Creeper 4, Golden-crowned Kinglet 6, Eastern Bluebird 1, American Robin 3, Northern Mockingbird 1, Cedar Waxwing 21, Northern Shrike 1, Loggerhead Shrike 3, European Starling 1205, Northern Cardinal 5, American Tree Sparrow 449, Song Sparrow 5, Harris' Sparrow 90, Dark-eyed (Slate-colored) Junco 64, Dark-eyed (Oregon) Junco 73, Lapland Longspur 1765, Red-winged Blackbird 1014, Western Meadowlark 561, House Finch 109, Pine Siskin 3, American Goldfinch 12, House Sparrow 1302. Total 45 species (2 additional subspecies), about 9,397 individuals. Seen in area during count period, but not on count day — Eastern Screech-owl, Belted Kingfisher.

Paul Adams, David Blasi, Earl Carlson, Chris Cooper, Donna Cooper (compiler — 2906 Walnut, Hays, KS, 67601), William Deeds, Eadar Dies, Geneva Dies, Charles Ely, Betsy Jennings, Katherine Mermis, Howard Reynolds, Zack Shaffer, Brian Wichael.

**Hillsdale Lake.** 38° 37'N, 94° 52'W. Center 2.5 mi W, 1 mi N of junction of old U.S. 169 through Paola, KS and K68. Habitat coverage: cultivated fields 30%, riparian forest 25%, lakes and rivers 18%, oldfields and fencerows 15%, swamps 5%, grassland 3%, residential areas 2%, coniferous stands 1%, marsh 1%. 7 January 1989, 6:45 a.m. to 5:45 p.m., 32° to 45°F; Wind NW, 10-12 m.p.h.; clear in AM, cloudy in PM; all water, except edge of reservoir, open. Twenty-five observers in 6 parties. Total party-hours 42 (10 on foot, 32 by car) plus 1 hr owling. Total party-miles 360 (8 on foot, 352 by car) and 3 miles owling.

Common Loon 2, Double-crested Cormorant 1, Great Blue Heron 5, Canada Goose 5,

Green-winged Teal 8, Mallard 173, Gadwall 76, American Wigeon 3, Ring-necked Duck 3, Lesser Scaup 139, Common Goldeneye 16, Hooded Merganser 5, Osprey 2, Bald Eagle 1, Northern Harrier 21, Sharp-shinned Hawk 1, Cooper's Hawk 1, Red-tailed Hawk 57, Rough-legged Hawk 1, American Kestrel 55, Northern Bobwhite 46, Killdeer 2, Ring-billed Gull 1208, Rock Dove 106, Mourning Dove 28, Eastern Screech-owl 1, Great Horned Owl 10, Barred Owl 1, Belted Kingfisher 3, Red-headed Woodpecker 24, Red-bellied Woodpecker 41, Yellow-bellied Sapsucker 1, Downy Woodpecker 39, Hairy Woodpecker 4, Northern (Yellow-shafted) Flicker 42, Horned Lark 382, Blue Jay 67, American Crow 225, Black-capped Chickadee 159, Tufted Titmouse 54, White-breasted Nuthatch 13, Brown Creeper 1, Carolina Wren 4, Golden-crowned Kinglet 2, Eastern Bluebird 93, American Robin 214, Northern Mockingbird 21, Loggerhead Shrike 16, European Starling 545, Northern Cardinal 145, American Tree Sparrow 375, Field Sparrow 1, Fox Sparrow 1, Song Sparrow 30, Swamp Sparrow 2, White-crowned Sparrow 47, Harris' Sparrow 46, Dark-eyed Junco ssp. 334, Lapland Longspur 12, Red-winged Blackbird 6854, Eastern Meadowlark 324, Rusty Blackbird 6, Common Grackle 1, American Goldfinch 89, House Sparrow 448. Total 65 species, about 12,642 individuals.

Genny Agin, Roger Boyd, Joanne Brier, Beth Conner, Steve Crawford, Effie Lou Edwards, David Ellis, Greg Good, Gene Hallett, Ellen Hertzler, Neil Hertzler, Greg Kramos, Dan Larson, Gene Lewis, Patty and Mike Mueller (compiler — Rt. 3, Box 205, Paola, KS, 66071), Lee Peters, Mary Peters, Ralph and Matt Pike, John and Phyllis Romine, Art Stalwell, Bob Thoman, Kevin Yurchak.

**Junction City.** 39° 00'N, 96° 53'W. Center I70 roadside rest W of Junction City, KS. Habitat coverage: grassland 18%, lakes and rivers 17%, coniferous stands 14%, oldfields and fencerows 12%, riparian forest 12%, upland deciduous forest 10%, cultivated fields 8%, marsh 5%, residential areas 4%. 28 December 1988, 3 a.m. to 9 p.m., 10° to 38°F; Wind N, 0-5 m.p.h.; waters 99% open; clear. Thirty observers in 7 parties and 1 observer at feeders. Total party-hours 52 (21 on foot, 31 by car) plus 6 hrs owling and 2 hrs at feeders. Total party-miles 389 (32 on foot, 357 by car) and 70 miles owling.

Common Loon 1, Pied-billed Grebe 1, Horned Grebe 1 (no details — Ed.), American White Pelican 1, Great Blue Heron 37, Canada Goose 179, Green-winged Teal 9, Mallard 506, Gadwall 324, Redhead 6, Ring-necked Duck 16, Lesser Scaup 3, Common Goldeneye 71, Bufflehead 28, Hooded Merganser 1, Common Merganser 5046, Bald Eagle 23, Northern Harrier 5, Sharp-shinned Hawk 5, Cooper's Hawk 2, Red-tailed Hawk 65, Red-tailed (Harlan's) Hawk 5, Rough-legged Hawk 5, American Kestrel 31, Peregrine Falcon 1, Prairie Falcon 2, Ring-necked Pheasant 28, Greater Prairie-chicken 60, Wild Turkey 41, Northern Bobwhite 104, American Coot 20, Killdeer 2, Common Snipe 3, Ring-billed Gull 3811, Herring Gull 106, Glaucous Gull 1 (no details — Ed.), Rock Dove 39, Mourning Dove 43, Eastern Screech-owl 5, Great Horned Owl 16, Barred Owl 4, Belted Kingfisher 7, Red-headed Woodpecker 34, Red-bellied Woodpecker 40, Yellow-bellied Sapsucker 4, Downy Woodpecker 60, Hairy Woodpecker 7, Northern (Yellow-shafted) Flicker 50, Northern (Red-shafted) Flicker 4, Northern Flicker ssp. 21, Horned Lark 60, Blue Jay 279, American Crow 690, Black-capped Chickadee 282, Tufted Titmouse 16, Red-breasted Nuthatch 2, White-breasted Nuthatch 36, Brown Creeper 16, Carolina Wren 5, Winter Wren 1, Marsh Wren 2, Golden-crowned Kinglet 34, Eastern Bluebird 63, Mountain Bluebird 78, American Robin 1533, Northern Mockingbird 9, Brown Thrasher 1, Cedar Waxwing 153, Loggerhead Shrike 4, European Starling 2540, Yellow-rumped (Myrtle) Warbler 45, Northern Cardinal 266, Rufous-sided Towhee 2, American Tree Sparrow 1105, Field Sparrow 1, Fox Sparrow 1, Song Sparrow 33, Swamp Sparrow 6, Harris' Sparrow 170, Dark-eyed (Slate-colored) Junco 640, Dark-eyed (Oregon) Junco 6, Dark-eyed Junco ssp. 67, Red-winged Blackbird 151, Eastern Meadowlark 21, Western Meadowlark 15, *Sturnella* sp. 227, Common Grackle 13, Pine Siskin 1, American Goldfinch 592, House Sparrow 118. Total 84 species (3 additional subspecies), about 20,168 individuals. Seen in area during count period, but not on count day — Double-crested Cormorant, Merlin, Long-eared Owl, Short-eared

Owl, Bewick's Wren, Northern Shrike, White-crowned Sparrow, Lapland Longspur.

Cecil Best, Joanne Brier, Ted Cable, Charlene Caspar, Lorena Combs, Melanie Demaris, Karen Fader, Kevin Fay, Nate Folland, Marion Gray, Cindy, Gary, and Jay Jeffrey, Jeff and Joan Keating, Dan and Robert LaShelle (compiler — 328 West 7th, #1, Junction City, KS, 66441), Sarah Merrill, Mary Liz Montgomery, Elaine Olney, Chuck Otte, Ray Phelan, Mike Rader, Tim Rues, Cliff Schuette, John Scott, Guy Smith, Martha Tomecek-Weinberg, Bob and Steven Waters, John Zimmerman.

**Lawrence.** 39° 00'N, 95° 18'W. Center 1.5 mi N and 2.7 mi W of junction U.S. 40 and U.S. 59 in NW Lawrence, KS. Habitat coverage: oldfields and fencerows 26%, residential areas 14%, cultivated fields 13%, riparian forest 12%, upland deciduous forest 11%, grassland 11%, lakes and rivers 10%, marsh 2%, coniferous stands 1%. 17 December 1988, 6 a.m. to 6:30 p.m., 18° to 46°F; Wind NW, 5-15 m.p.h.; waters partly frozen; clear in AM, partly cloudy in PM. Thirty-eight observers in 13 parties and 2 observers at feeders. Total party-hours 100.5 (49 on foot, 51.5 by car) plus 7.5 hrs owling and 11 hrs at feeders. Total party-miles 536.5 (39.5 on foot, 497 by car) and 48.5 miles owling.

Pied-billed Grebe 1, Double-crested Cormorant 2, Great Blue Heron 12, Canada Goose 69, Mallard 149, Gadwall 43, American Wigeon 25, Redhead 30, Ring-necked Duck 1, Lesser Scaup 10, Common Goldeneye 130, Hooded Merganser 4, Common Merganser 1850, Red-breasted Merganser 2 (excellent details — Ed.), Bald Eagle 24, Northern Harrier 21, Sharp-shinned Hawk 4, Cooper's Hawk 2, *Accipiter* sp. 1, Red-tailed Hawk 139, American Kestrel 65, *Falco* sp. 1, Wild Turkey 17, Northern Bobwhite 151, Killdeer 6, Common Snipe 1, Ring-billed Gull 700, Herring Gull 11, *Larus* sp. 68, Rock Dove 778, Mourning Dove 44, Eastern Screech-owl 10, Great Horned Owl 16, Barred Owl 4, Short-eared Owl 1 (excellent details — Ed.), Belted Kingfisher 10, Red-headed Woodpecker 19, Red-bellied Woodpecker 165, Yellow-bellied Sapsucker 2, Downy Woodpecker 117, Hairy Woodpecker 23, Northern (Yellow-shafted) Flicker 94, Northern (Red-shafted) Flicker 2, Northern Flicker ssp. 21, Horned Lark 30, Blue Jay 189, American Crow 441, Black-capped Chickadee 714, Tufted Titmouse 110, Red-breasted Nuthatch 2, White-breasted Nuthatch 59, Brown Creeper 7, Carolina Wren 8, Winter Wren 1, Golden-crowned Kinglet 25, Ruby-crowned Kinglet 2, Eastern Bluebird 134, American Robin 617, Northern Mockingbird 8, Cedar Waxwing 93, Loggerhead Shrike 12, European Starling 4900, Northern Cardinal 420, Rufous-sided Towhee 1, American Tree Sparrow 620, Song Sparrow 112, Lincoln's Sparrow 1, Swamp Sparrow 9, White-throated Sparrow 5, White-crowned Sparrow 2, Harris' Sparrow 181, Dark-eyed (Slate-colored) Junco 423, Dark-eyed (Oregon) Junco 4, Dark-eyed Junco ssp. 625, Red-winged Blackbird 420, Eastern Meadowlark 11, Western Meadowlark 5, *Sturnella* sp. 273, Great-tailed Grackle 1 (excellent details — Ed.), Common Grackle 13, Purple Finch 2, Pine Siskin 2, American Goldfinch 581, House Sparrow 1850. Total 76 species (2 additional subspecies), about 17,758 individuals. Seen in area during count period, but not on count day — Snow Goose.

Mary Allen, Bob Antonio, Roger Boyd, Mary Butterbrodt, Calvin Cink, Jan Conrad, Ann Erickson, Carol Estes, Ruth Faulh, Lin Fredericksen, William and Shirley Griffith, Jan Hall, Bill Hays, David Herrin, Buzz Hoagland, Jennifer Jones, Greg Kramas, Galen Pittman (compiler — RR4, Box 260, Lawrence, KS, 66044), Alexis Powell, Pam Rasmussen, David Reber, Stan Roth, Richard and Bob Rucker, David Seibel, Dawn Sharp, Ed and Cynthia Shaw, Kevin Siek, Roseanne Smith, Margaret Wedge, Phil Wedge, Becky Wisdom, Jeff Witters, Ron and Joyce Wolf, Alan Zarley.

**Leavenworth-Atchison.** 39° 24'N, 94° 58'W. Center Kickapoo Cemetery, sec. 33, T7S, R22E, Leavenworth County. Habitat coverage: riparian forest 43%, lakes and rivers 20%, upland deciduous forest 13%, oldfields and fencerows 10%, cultivated fields 5%, grassland 3%, residential areas 3%, marsh 3%. 17 December 1988, 7 a.m. to 4 p.m., 23° to 36°F; Wind N, 10-20 m.p.h.; ponds frozen, rivers open; clear. Nineteen observers in 3 parties and 2 observers at feeders. Total party-hours 11 (4 on foot, 7 by car) plus 5 hrs

owling and 3 hrs at feeders. Total party-miles 150 (4 on foot, 146 by car) plus 10 miles owling.

Greater White-fronted Goose 1, Snow Goose (white morph) 2005, Snow Goose (blue morph) 200, Mallard 25, Redhead 2, Lesser Scaup 1, Common Goldeneye 4, Bald Eagle 14, Northern Harrier 1, Red-tailed Hawk 11, Rough-legged Hawk 1, *Buteo* sp. 4, American Kestrel 13, Ring-necked Pheasant 6, Ring-billed Gull 6, Rock Dove 50, Great Horned Owl 1, Barred Owl 2, Red-headed Woodpecker 1, Red-bellied Woodpecker 17, Downy Woodpecker 23, Hairy Woodpecker 2, Northern (Yellow-shafted) Flicker 14, Northern (Red-shafted) Flicker 1, Northern Flicker ssp. 3, Horned Lark 4, Blue Jay 17, American Crow 7, Black-capped Chickadee 36, Tufted Titmouse 31, White-breasted Nuthatch 9, Carolina Wren 1, Golden-crowned Kinglet 1, Ruby-crowned Kinglet 1, Eastern Bluebird 4, American Robin 2201, Northern Mockingbird 1, Loggerhead Shrike 1, European Starling 10,364, Northern Cardinal 24, American Tree Sparrow 56, Song Sparrow 3, White-throated Sparrow 1, Dark-eyed (Oregon) Junco 8, Dark-eyed Junco ssp. 90, Red-winged Blackbird 211, Common Grackle 133, Purple Finch 2, American Goldfinch 46, Evening Grosbeak 1, House Sparrow 56. Total 46 species (1 additional subspecies), about 15,717 individuals. Seen in area during count period, but not on count day — Mourning Dove, Belted Kingfisher, *Sturnella* sp.

Chuck Allen, Dick Brown, Lee Knapp, Bud Lichtenwalter, Bonnie, Theresa and Helen Mueller, Ulrich Quante, Linda Schukman, John Schukman (compiler — RR 2, Box 111-37, Leavenworth, KS, 66048), Craig A. and Craig K. Schwegman, Audrey and Christopher Small, Jack Smith, Betty Strand, Susan and Bill Tredennick, Pat Wakeman.

**Linn County.** 38° 17'N, 94° 45'W. Center SW corner, Unit G, Marais des Cygnes Wildlife Management Area. Habitat coverage: lakes and rivers 30%, riparian forest 25%, upland deciduous forest 10%, oldfields and fencerows 10%, grassland 10%, marsh 10%, cultivated fields 5%. 29 December 1988, 6 a.m. to 4:30 p.m., 24° to 40°F; Wind S, 5-10 m.p.h.; waters mostly frozen, 2" snow on ground, partly cloudy. Three observers in 2 parties. Total party-hours 16 (0.5 on foot, 15.5 by car) plus 1 hr owling. Total party-miles 159 (0.5 on foot, 158.5 by car) and 13 miles owling.

Pied-billed Grebe 1, Double-crested Cormorant 7, Great Blue Heron 10, Canada Goose 20,000, Wood Duck 1, Mallard 15,000, Northern Pintail 2, Northern Shoveler 6, Gadwall 11, American Wigeon 2, Redhead 5, Ring-necked Duck 2, Lesser Scaup 2, Common Goldeneye 9, Hooded Merganser 80, Bald Eagle 7, Northern Harrier 5, Red-tailed Hawk 115, Rough-legged Hawk 1, American Kestrel 32, Northern Bobwhite 13, American Coot 4, Bonaparte's Gull 13 (excellent details — Ed.), Ring-billed Gull 9, Rock Dove 62, Mourning Dove 1, Eastern Screech-owl 1, Great Horned Owl 4, Barred Owl 1, Belted Kingfisher 3, Red-headed Woodpecker 33, Red-bellied Woodpecker 52, Yellow-bellied Sapsucker 1, Downy Woodpecker 35, Hairy Woodpecker 2, Northern Flicker ssp. 403, Pileated Woodpecker 4, Blue Jay 118, American Crow 347, Black-capped Chickadee 149, Tufted Titmouse 66, White-breasted Nuthatch 36, Brown Creeper 4, Carolina Wren 1, Golden-crowned Kinglet 3, Eastern Bluebird 54, American Robin 142, Northern Mockingbird 2, Cedar Waxwing 26, Loggerhead Shrike 7, European Starling 323, Common Yellowthroat 1 (excellent details — Ed.), Northern Cardinal 139, American Tree Sparrow 334, Song Sparrow 42, Swamp Sparrow 9, White-throated Sparrow 1, White-crowned Sparrow 37, Harris' Sparrow 21, Dark-eyed (Oregon) Junco 2, Dark-eyed Junco ssp. 505, Red-winged Blackbird 1921, Eastern Meadowlark 96, *Sturnella* sp. 226, Common Grackle 6, Brown-headed Cowbird 60, American Goldfinch 21, House Sparrow 328. Total 66 species (1 additional subspecies), about 40,966 individuals.

Roger Boyd (compiler — Biology Dept., Baker Univ., Baldwin City, KS, 66006), Steve Crawford, Martin Pressgrove.

**Manhattan.** 39° 11'N, 96° 34'W. Center Anderson Hall, Kansas State University campus. Habitat coverage: oldfields and fencerows 22%, riparian forest 20%, upland deciduous forest 18%, lakes and rivers 13%, cultivated fields 10%, grasslands 6%, conif-

erous stands 4%, residential areas 4%, marsh 3%. 17 December 1988, 7 a.m. to 5:30 p.m., 22° to 45°F; Wind N, 0-8 m.p.h.; most waters open; clear to scattered clouds. Ninety-one observers in 17 parties. Total party-hours 171 (68 by car, 103 by foot) plus 0.5 hrs owling and 6 hrs at feeders. Total party-miles 644 (530 by car, 114 by foot) and 5 miles owling.

American White Pelican 4, Great Blue Heron 49, Canada Goose 3, Green-winged Teal 121, Mallard 660, Northern Pintail 7, Gadwall 166, American Wigeon 5, Canvasback 6, Redhead 2, Lesser Scaup 10, Common Goldeneye 55, Bufflehead 40, Common Merganser 263, Bald Eagle 38, Northern Harrier 21, Sharp-shinned Hawk 14, Cooper's Hawk 3, Red-tailed Hawk 137, Red-tailed (Harlan's) Hawk 11, Red-tailed (Krieger's) Hawk 2, Rough-legged Hawk 2, American Kestrel 65, Prairie Falcon 1, Ring-necked Pheasant 50, Greater Prairie-chicken 22, Wild Turkey 45, Northern Bobwhite 788, American Coot 2, Killdeer 8, Common Snipe 4, Ring-billed Gull 610, Rock Dove 542, Mourning Dove 140, Eastern Screech-owl 10, Great Horned Owl 10, Barred Owl 9, Short-eared Owl 1, Belted Kingfisher 32, Red-headed Woodpecker 365, Red-bellied Woodpecker 117, Yellow-bellied Sapsucker 17, Downy Woodpecker 182, Hairy Woodpecker 35, Northern (Yellow-shafted) Flicker 111, Northern (Red-shafted) Flicker 11, Northern Flicker ssp. 79, Horned Lark 188, Blue Jay 850, American Crow 1719, Black-capped Chickadee 792, Tufted Titmouse 170, Red-breasted Nuthatch 2, White-breasted Nuthatch 160, Brown Creeper 81, Carolina Wren 10, Bewick's Wren 9, Winter Wren 1, Golden-crowned Kinglet 89, Ruby-crowned Kinglet 1, Eastern Bluebird 276, Mountain Bluebird 12, American Robin 1941, Northern Mockingbird 5, Brown Thrasher 1, Cedar Waxwing 96, Loggerhead Shrike 6, European Starling 20,256, Yellow-rumped Warbler 5, Northern Cardinal 616, Rufous-sided Towhee 10, American Tree Sparrow 1788, Field Sparrow 7, Savannah Sparrow 3 (good details — Ed.), Song Sparrow 47, Swamp Sparrow 1, White-throated Sparrow 3, White-crowned Sparrow 1, Harris' Sparrow 593, Dark-eyed (Slate-colored) Junco 621, Dark-eyed (Oregon) Junco 12, Dark-eyed Junco ssp. 1065, Red-winged Blackbird 1422, Eastern Meadowlark 113, Western Meadowlark 40, *Sturnella* sp. 565, Rusty Blackbird 7, Brewer's Blackbird 200, Common Grackle 1, Brown-headed Cowbird 493, Pine Siskin 6, American Goldfinch 680, House Sparrow 1259. Total 86 species (4 additional subspecies), about 41,098 individuals.

Gary Anderson, Ed Bagley, Cecil Best, Greg and Kathy Brack, Kim Brawley, Dana Bres, Kenny Brooks, Melissa Brown, Richard Brown, Laurie and Terry Campbell, Bill Coons, Wayne Corn, Brock Dale, Dave Danskin, Mike Donnelly, Kangyang Du, Don and Irmie Fallon, Kevin Fay, Clyde and Marilena Ferguson, Elmer and Lavonne Finck, Esther Flemming, Nathan Folland, Benjamin and Marion Gray, Steve Hansen, Leann Harrell, Bart Hettenbach, Jay Jeffrey, Lynne Jensen, Lowell Johnson, Mark Joy, Michele Kelly, Duane and Gary Kerr, Sue and Randy Kidd, Ron Klataske, Jim Koelliker, Ann Kosch, Angel Kwolek-Folland, John LaShelle, Charlotte Lorenzen, Jim Mayhew, Sally McGrath, Larry McIntyre, Barry Michie, Larry Moeller, Marge Muenzenberger, Dan Mulhern, Dan and Pam Mullinex, Lila Nilson, Carol Pacey, Bob Patterson, Larry Patton, Diane Post, Gary Radke, Bobby Redman, Mike Rhodes, Dave Rintoul, Anne Rockhold, Tom Ryan, Karen Sauer, Bill and Donna Schenck-Hamlin, Cliff Schuette, Tom Shields, Andrea, Ann, and Chris Smith, Andy Smith, Guy Smith, Wenxia Song, Tina Songs, Dean Stramel, Mark Swegle, Dana and Harvard Townsend, Mark Vacca, Paul Weidhaas, Ellen and Ruth Welti, Jane Withee, L. V. Withee, Jan and John Zimmerman (compiler — Div. Biology, Kansas State Univ., Manhattan, KS, 66506) (Northern Flint Hills Audubon Society).

**Meade County.** 37° 15'N, 100° 20'W. Center 1.5 mi S Meade, KS on U.S. 23. Habitat coverage: riparian woodland 50%, lakes and rivers 20%, residential areas 15%, cultivated fields 10%, oldfields and fencerows 5%. 2 January 1989, 7 a.m. to 5 p.m., 26° to 45°F; Wind SW, 5 m.p.h.; waters mostly open, fog early then clearing. Six observers in 3 parties and 3 observers at feeders. Total party-hours 13 (7 on foot, 6 by car) and 4.5 hrs at feeders. Total party-miles 121 (5 on foot, 116 by car).

Snow Goose (white morph) 1, Canada Goose 5000, Green-winged Teal 254, Mallard

6001, Northern Shoveler 53, American Wigeon 1, Redhead 5, Ring-necked Duck 1, Lesser Scaup 100, Bufflehead 1, Northern Harrier 5, Red-tailed Hawk 16, Red-tailed (Harlan's) Hawk 1, Rough-legged Hawk 8, *Buteo* sp. 9, Golden Eagle 3, American Kestrel 24, Prairie Falcon 4, Ring-necked Pheasant 7, Wild Turkey 49, American Coot 500, Mourning Dove 1, Great Horned Owl 2, Red-bellied Woodpecker 3, Downy Woodpecker 16, Hairy Woodpecker 3, Northern (Yellow-shafted) Flicker 8, Northern (Red-shafted) Flicker 5, Northern Flicker ssp. 1, Horned Lark 482, Blue Jay 12, Black-billed Magpie 5, American Crow 12, Black-capped Chickadee 5, White-breasted Nuthatch 8, Brown Creeper 2, Golden-crowned Kinglet 2, Eastern Bluebird 1, Mountain Bluebird 2, European Starling 60, Yellow-rumped (Myrtle) Warbler 1, Northern Cardinal 7, American Tree Sparrow 210, Song Sparrow 8, White-crowned Sparrow 156, Harris' Sparrow 170, Dark-eyed (Slate-colored) Junco 4, Dark-eyed (Oregon) Junco 22, Dark-eyed Junco ssp. 294, Chestnut-collared Longspur 150, Red-winged Blackbird 777, Western Meadowlark 223, Common Grackle 10, House Finch 6, Pine Siskin 20, American Goldfinch 215, House Sparrow 350. Total 51 species (3 additional subspecies), about 15,296 individuals. Seen in area during count period, but not on count day — Northern Bobwhite, Common Barn-owl, Eastern Screech-owl, Long-eared Owl, Dark-eyed (Gray-headed) Junco.

Audrey Flowers, Tom Flowers (compiler — P. O. Box 87, Meade, KS, 67864), Mark Goldsberry, Ada Heinson, Dinah Mellard, Ron Mellard.

**Mined Land Wildlife Management Area (Cherokee Co.).** 37° 14'N, 94° 58'W. Center center of sec. 26, R22E, T32S, approximately 0.5 mi S captive goose pens in the West Mineral Unit. Habitat coverage: grassland 30%, upland deciduous forest 18%, riparian forest 17%, cultivated fields 14%, oldfields and fencerows 7%, lakes and rivers 6%, swamp 4%, marsh 2%, residential areas 1%, coniferous stands 1%. 3 January 1989, 7:30 a.m. to 4:30 p.m., 38° to 52°F; Wind SW, 3-5 m.p.h.; waters open; partly cloudy to clear. Sixteen observers in 5 parties. Total party-hours 29 (14.5 on foot, 14.5 by car). Total party-miles 161 (14 on foot, 147 by car).

Pied-billed Grebe 2, Great Blue Heron 7, Snow Goose (white morph) 40, Snow Goose (blue morph) 30, Canada Goose 13, Mallard 29, Lesser Scaup 32, Northern Harrier 36, Sharp-shinned Hawk 1, Red-tailed Hawk 177, Red-tailed (Harlan's) Hawk 4, American Kestrel 33, Prairie Falcon 1, Greater Prairie-chicken 5, Northern Bobwhite 20, Mourning Dove 48, Great Horned Owl 3, Belted Kingfisher 2, Red-headed Woodpecker 4, Red-bellied Woodpecker 21, Downy Woodpecker 30, Hairy Woodpecker 19, Northern (Yellow-shafted) Flicker 21, Northern Flicker ssp. 23, Horned Lark 85, Blue Jay 75, American Crow 202, Carolina Chickadee 67, Tufted Titmouse 27, White-breasted Nuthatch 1, Eastern Bluebird 27, American Robin 150, Northern Mockingbird 13, Brown Thrasher 1, Cedar Waxwing 1, Loggerhead Shrike 14, European Starling 586, Northern Cardinal 94, American Tree Sparrow 11, Field Sparrow 16, Savannah Sparrow 1 (excellent details — Ed.), Fox Sparrow 1, Song Sparrow 15, White-throated Sparrow 5, White-crowned Sparrow 2, Harris' Sparrow 7, Dark-eyed (Slate-colored) Junco 59, Dark-eyed Junco ssp. 7, Red-winged Blackbird 1093, *Sturnella* sp. 327, Common Grackle 230, Brown-headed Cowbird 5, American Goldfinch 69, House Sparrow 52. Total 50 species (1 additional subspecies), about 3,844 individuals.

Joe Arruda, Linda Berry, Roxy Blessent, Sandee Curran, Leon Dinkins, Cindy Ford, Steve Ford (compiler — Dept. Biology, Pittsburg State Univ., 1701 S. Broadway, Pittsburg, KS, 66762), Mike Gilbert, Stan Harter, Sally Imhoff, Helen McDougal, Mike McKee, Hermann Nonnenmacher, Chris Pistole, Mike Stiles, Jeff Vickers.

**Olathe.** 38° 55'N, 94° 51'W. Center intersection 119th St. and K7. Habitat coverage: riparian forest 25%, lakes and rivers 20%, oldfields and fencerows 20%, grassland 15%, upland deciduous forest 15%, coniferous stands 5%. 26 December 1988, 7 a.m. to 5:30 p.m., 30° to 50°F; Wind W, 0-15 m.p.h.; waters open; overcast. Fourteen observers in 6 parties and 7 observers at feeders. Total party-hours 37 (6 on foot, 31 by car) plus 4 hrs owling and 8 hrs at feeders. Total party-miles 320 (8 on foot, 312 by car) and 20 miles owling.

Great Blue Heron 1, Canada Goose 149, Wood Duck 2, Mallard 305, Gadwall 27, Common Goldeneye 6, Bufflehead 8, Common Merganser 2, Northern Harrier 5, Sharp-shinned Hawk 3, Red-tailed Hawk 61, Rough-legged Hawk 1, American Kestrel 57, Northern Bobwhite 37, American Coot 2, Killdeer 6, Common Snipe 9, Ring-billed Gull 516, Rock Dove 53, Mourning Dove 145, Common Barn-owl 1 (excellent details — Ed.), Eastern Screech-owl 6, Great Horned Owl 4, Belted Kingfisher 4, Red-headed Woodpecker 1, Red-bellied Woodpecker 52, Downy Woodpecker 74, Hairy Woodpecker 16, Northern (Yellow-shafted) Flicker 42, Horned Lark 3, Blue Jay 121, American Crow 270, Black-capped Chickadee 329, Tufted Titmouse 65, Red-breasted Nuthatch 1, White-breasted Nuthatch 36, Brown Creeper 4, Carolina Wren 2, Golden-crowned Kinglet 2, Eastern Bluebird 51, American Robin 432, Northern Mockingbird 7, Cedar Waxwing 180, Loggerhead Shrike 1, European Starling 2722, Northern Cardinal 276, American Tree Sparrow 322, Field Sparrow 12, Song Sparrow 13, Swamp Sparrow 1, White-crowned Sparrow 6, Harris' Sparrow 67, Dark-eyed (Slate-colored) Junco 477, Red-winged Blackbird 80, Eastern Meadowlark 39, Common Grackle 2, Purple Finch 5, House Finch 2 (excellent details — Ed.), American Goldfinch 226, House Sparrow 855. Total 60 species, about 8,204 individuals. Seen in area during count period, but not on count day — Bald Eagle.

Roger Boyd, Steve Case, Mike Cooper, Mark and Elaine Corder, Steve Crawford (compiler — 529 N. Curtis, Olathe, KS, 66061), Bill Davis, Sally Gnaegy, Mick McHugh, Jim and Pam Murrowchick, Richard Parker, Walter Ross, Paul Watson.

**Oskaloosa-Perry Lake.** 39° 12'N, 95° 15'W. Center entrance Camp Jayhawk BSA (NE corner sec. 9, T10S, R18E). Habitat coverage: oldfields and fencerows 20%, cultivated fields 18%, lakes and rivers 18%, upland deciduous forest 18%, riparian forest 15%, grasslands 5%, residential areas 3%, coniferous stands 2%, marsh 1%. 18 December 1988, 7 a.m. to 7 p.m., 33° to 61°F; Wind SW, 0-15 m.p.h.; lake mostly open, ponds frozen; partly cloudy. Eighteen observers in 7 parties and 1 observer at feeders. Total party-hours 61 (23 on foot, 38 by car) plus 2 hrs owling and 1 hr at feeders. Total party-miles 427 (25 on foot, 402 by car) and 6.5 miles owling.

Horned Grebe 1 (excellent details — Ed.), Great Blue Heron 1, Snow Goose (white morph) 25, Canada Goose 111, Wood Duck 1, Green-winged Teal 3, Mallard 955, Northern Pintail 1, Northern Shoveler 5, Gadwall 24, American Wigeon 24, Canvasback 1, Lesser Scaup 20, Common Goldeneye 57, Common Merganser 4050, Bald Eagle 32, Northern Harrier 19, Sharp-shinned Hawk 2, Red-tailed Hawk 110, Rough-legged Hawk 1, American Kestrel 88, Wild Turkey 20, Northern Bobwhite 176, Killdeer 4, Franklin's Gull 1 (excellent details — Ed.), Ring-billed Gull 660, Herring Gull 11, Rock Dove 76, Eastern Screech-owl 4, Great Horned Owl 9, Barred Owl 2, Belted Kingfisher 6, Red-headed Woodpecker 8, Red-bellied Woodpecker 103, Yellow-bellied Sapsucker 4, Downy Woodpecker 103, Hairy Woodpecker 24, Northern (Yellow-shafted) Flicker 101, Northern (Red-shafted) Flicker 1, Northern Flicker ssp. 38, Horned Lark 25, Blue Jay 171, American Crow 278, Black-capped Chickadee 413, Tufted Titmouse 127, White-breasted Nuthatch 87, Brown Creeper 5, Carolina Wren 6, Golden-crowned Kinglet 11, Eastern Bluebird 185, American Robin 49, Northern Mockingbird 10, Cedar Waxwing 91, Loggerhead Shrike 12, European Starling 475, Northern Cardinal 280, Rufous-sided Towhee 4, American Tree Sparrow 615, Song Sparrow 70, White-throated Sparrow 1, White-crowned Sparrow 3, Harris' Sparrow 63, Dark-eyed (Slate-colored) Junco 444, Dark-eyed Junco ssp. 286, Red-winged Blackbird 30, Eastern Meadowlark 2, Western Meadowlark 1, *Sturnella* sp. 80, Purple Finch 1, Pine Siskin 1, American Goldfinch 164, House Sparrow 1100. Total 68 species (1 additional subspecies), about 11,972 individuals. Seen in area during count period, but not on count day — Double-crested Cormorant.

Mary Allen, Jim Anderson, Debbie Baker, Ruth Fauhl, Lin Frederickson, Dan Gish, Jay Jeffrey, Dan Larson, Mick McHugh, Lloyd Moore, Galen Pittman, Bob Rucker, Richard Rucker (compiler — 121 East 17th St., Lawrence, KS, 66044), Dawn Sharp, Chris Smith, Roseanne Smith, Phil Wedge, Alan Zarley.

**Parsons.** 37° 30'N, 95° 15'W. Center 0.5 mi E U.S. 59, 5.5 mi N Labette, KS city limits. Habitat coverage: oldfields and fencerows 30%, cultivated fields 30%, marsh 19%, riparian forest 8%, lakes and rivers 7%, residential areas 6%. 17 December 1988, 7:30 a.m. to 5:30 p.m., 24° to 40°F; Wind calm; waters open; clear. Twelve observers in 6 parties. Total party-hours 37 (13 on foot, 24 by car). Total party-miles 224 (14 by foot, 210 by car).

American White Pelican 2, Double-crested Cormorant 1, Great Blue Heron 10, Green-backed Heron 2 (no details — Ed.), Snow Goose (white morph) 900, Snow Goose (blue morph) 300, Canada Goose 199, Wood Duck 40, Mallard 7055, Northern Pintail 4, Blue-winged Teal 6 (no details — Ed.), Canvasback 27, Redhead 5, Ring-necked Duck 32, Lesser Scaup 350, Common Goldeneye 7, Hooded Merganser 9, Common Merganser 3, Bald Eagle 21, Northern Harrier 55, Sharp-shinned Hawk 1, Red-shouldered Hawk 2, Red-tailed Hawk 136, Rough-legged Hawk 3, American Kestrel 58, Wild Turkey 8, Northern Bobwhite 66, American Coot 79, Killdeer 83, Common Snipe 1, Rock Dove 8, Mourning Dove 50, Great Horned Owl 5, Barred Owl 5, Belted Kingfisher 4, Red-headed Woodpecker 42, Red-bellied Woodpecker 43, Yellow-bellied Sapsucker 2, Downy Woodpecker 12, Hairy Woodpecker 4, Northern (Yellow-shafted) Flicker 36, Northern Flicker ssp. 4, Horned Lark 50, Blue Jay 99, American Crow 139, Carolina Chickadee 75, Tufted Titmouse 18, White-breasted Nuthatch 7, Brown Creeper 3, Carolina Wren 3, Golden-crowned Kinglet 15, Ruby-crowned Kinglet 1, Eastern Bluebird 86, American Robin 79, Northern Mockingbird 26, Brown Thrasher 1, Cedar Waxwing 30, Loggerhead Shrike 16, European Starling 3566, Yellow-rumped (Myrtle) Warbler 2, Northern Cardinal 197, American Tree Sparrow 24, Field Sparrow 50, White-throated Sparrow 2, White-crowned Sparrow 33, Harris' Sparrow 85, Dark-eyed (Slate-colored) Junco 143, Dark-eyed Junco ssp. 57, Red-winged Blackbird 3876, Eastern Meadowlark 454, Rusty Blackbird 3, Brewer's Blackbird 12, Brown-headed Cowbird 50, Pine Siskin 1, American Goldfinch 153, House Sparrow 500. Total 74 species, about 19,566 individuals.

Joan Ash, Amanda Blackburn, Donna Blackburn, Bill Brewer, Pamela Cress, Cindy Ford, Steve Ford, Marcie C. Gilpin, R. W. McCandless (compiler — P. O. Box 753, Parsons, KS, 67357), Patricia Hollean, W. W. Holland, T. E. Wester (Southeast Kansas Audubon Society).

**Pomona Lake.** 38° 41'N, 95° 41'W. Center intersection of U.S. 75 and Dragoon Creek. Habitat coverage: oldfields and fencerows 23%, riparian forest 20%, lakes and rivers 15%, grassland 15%, cultivated fields 10%, upland deciduous forest 10%, residential areas 4%, coniferous stands 2%, marsh 1%. 18 December 1988, 7:30 a.m. to 4 p.m., 32° to 61°F; Wind SSW, 10 m.p.h.; lake open, farm ponds frozen, no water in creeks; clear. Six observers in 2 parties and 2 observers at feeders. Total party-hours 18.5 (8.5 on foot, 10 by car) plus 1 hr at feeders. Total party-miles 139 (5 on foot, 134 by car).

Great Blue Heron 2, Canada Goose 68, Mallard 181, Northern Pintail 6, Gadwall 33, Common Goldeneye 9, Hooded Merganser 1, Common Merganser 483, Northern Harrier 16, Red-tailed Hawk 46, American Kestrel 17, Northern Bobwhite 7, Ring-billed Gull 97, Rock Dove 8, Mourning Dove 4, Great Horned Owl 3, Barred Owl 1, Belted Kingfisher 5, Red-headed Woodpecker 3, Red-bellied Woodpecker 33, Yellow-bellied Sapsucker 1, Downy Woodpecker 14, Hairy Woodpecker 6, Northern (Yellow-shafted) Flicker 31, Blue Jay 32, American Crow 117, Black-capped Chickadee 87, Tufted Titmouse 13, White-breasted Nuthatch 14, Brown Creeper 1, Golden-crowned Kinglet 6, Eastern Bluebird 61, American Robin 399, Northern Mockingbird 5, Cedar Waxwing 25, Loggerhead Shrike 3, European Starling 261, Yellow-rumped (Myrtle) Warbler 1, Northern Cardinal 80, American Tree Sparrow 239, Field Sparrow 1, Song Sparrow 18, Swamp Sparrow 2, Harris' Sparrow 46, Dark-eyed (Slate-colored) Junco 135, Dark-eyed (Oregon) Junco 3, Dark-eyed Junco ssp. 87, Red-winged Blackbird 170, Eastern Meadowlark 42, *Sturnella* sp. 8, Common Grackle 1, Pine Siskin 6, American Goldfinch 50, House Sparrow 167. Total 51 species (1 additional subspecies), about 3,155 individuals. Seen in area during count period, but not on count day — Sharp-shinned Hawk,

Long-eared Owl, Northern (Red-shafted) Flicker, Horned Lark.

Joanne Brier, Kirk Downing, Eugene Lewis, Eulalia Lewis, Marianne Peterman, Pete Peterman, Bonnie Watkins (compiler — 3212 W. 24th St. Terrace, Lawrence, KS, 66046), Dan Williamson.

**Quivira National Wildlife Refuge.** 38° 09'N, 98° 29'W. Center at refuge subheadquarters. Habitat coverage (based on general area coverage, not time): grassland 80%, cultivated fields 10%, marsh 10%. 16 December 1988, 8 a.m. to 5 p.m., 34° to 45°F; Wind NW, 5-10 m.p.h.; still water partly open, running water open; clear. Twelve observers in 3 parties. Total party-hours 25.5 (4 on foot, 21.5 by car). Total party-miles 289 (4 on foot, 285 by car).

American White Pelican 3, Great Blue Heron 3, Greater White-fronted Goose 400, Snow Goose 41, Canada Goose 4206, Green-winged Teal 3, Mallard 2764, Northern Pintail 10, Northern Shoveler 1, Bufflehead 2, Bald Eagle 4, Northern Harrier 29, Sharp-shinned Hawk 7, Red-tailed Hawk 69, Rough-legged Hawk 8, Golden Eagle 1, American Kestrel 43, Prairie Falcon 2, Ring-necked Pheasant 18, Wild Turkey 190, Northern Bobwhite 88, Common Snipe 1, Rock Dove 1, Mourning Dove 1, Great Horned Owl 11, Long-eared Owl 7, Red-bellied Woodpecker 9, Downy Woodpecker 15, Hairy Woodpecker 4, Northern (Yellow-shafted) Flicker 19, Northern (Red-shafted) Flicker 5, Northern Flicker ssp. 30, Horned Lark 332, Blue Jay 28, Black-billed Magpie 9, American Crow 63, Black-capped Chickadee 39, Tufted Titmouse 1, White-breasted Nuthatch 1, Golden-crowned Kinglet 1, Eastern Bluebird 24, Mountain Bluebird 54, American Robin 114, Cedar Waxwing 3, Northern Shrike 3, Loggerhead Shrike 13, European Starling 200, Northern Cardinal 18, Rufous-sided Towhee 3, American Tree Sparrow 1043, Song Sparrow 6, Harris' Sparrow 233, Dark-eyed (Slate-colored) Junco 43, Dark-eyed (Oregon) Junco 6, Dark-eyed Junco ssp. 101, Lapland Longspur 20, Red-winged Blackbird 759, Eastern Meadowlark 270, Western Meadowlark 30, Brewer's Blackbird 34, Great-tailed Grackle 14, Common Grackle 3, House Finch 1, American Goldfinch 42, House Sparrow 267. Total 62 species (2 additional subspecies), about 11,773 individuals.

Wallace Champeny, Scott Glup, Patrick Gonzales (compiler — Rt. 3, Box 48A, Stafford, KS, 67578), Rick Goodrick, Dan Kilby, Mike Lesan, Jay Newton, Dave Rintoul, Daniel Schaad, Diane and Scott Seltman, John Zimmerman.

**Reno County-Yoder.** 37° 54'N, 97° 52'W. Center 3 mi S Yoder, KS on the Yoder-Cheney Rd. Habitat coverage: cultivated fields 75%, lakes and rivers 15%, oldfields and fencerows 6%, riparian woodland 2%, grassland 1%, residential areas 1%. 17 December 1988, 7:30 a.m. to 5:30 p.m., 20° to 45°F; Wind calm; waters open; clear. Nineteen observers in 6 parties. Total party-hours 42.5 (15.5 on foot, 27 by car). Total party-miles 281 (22 on foot, 259 by car).

American White Pelican 6, Great Blue Heron 7, Canada Goose 199, Green-winged Teal 20, Mallard 242, Northern Shoveler 6, American Wigeon 3, Northern Harrier 20, Sharp-shinned Hawk 4, Cooper's Hawk 1, Red-tailed Hawk 58, Ferruginous Hawk 1, Rough-legged Hawk 4, *Buteo* sp. 10, American Kestrel 51, Merlin 1, Prairie Falcon 2, Ring-necked Pheasant 33, Wild Turkey 85, Northern Bobwhite 48, Killdeer 11, Common Snipe 1, Ring-billed Gull 10, Rock Dove 34, Mourning Dove 18, Great Horned Owl 13, Belted Kingfisher 9, Red-bellied Woodpecker 22, Yellow-bellied Sapsucker 1, Downy Woodpecker 21, Hairy Woodpecker 4, Northern Flicker ssp. 54, Horned Lark 433, Blue Jay 125, American Crow 465, Black-capped Chickadee 270, Tufted Titmouse 6, White-breasted Nuthatch 5, Winter Wren 1, Golden-crowned Kinglet 12, Ruby-crowned Kinglet 57, Eastern Bluebird 12, Townsend's Solitaire 1, American Robin 64, Northern Mockingbird 3, Brown Thrasher 1, Loggerhead Shrike 1, European Starling 2964, Northern Cardinal 111, Rufous-sided Towhee 2, American Tree Sparrow 667, Field Sparrow 10, Song Sparrow 35, Harris' Sparrow 866, Dark-eyed (Slate-colored) Junco 433, Lapland Longspur 30, Red-winged Blackbird 2899, Eastern Meadowlark 356, Western Meadowlark 183, Rusty Blackbird 1, Common Grackle 9, Brown-headed Cow-

bird 26, American Goldfinch 42, House Sparrow 799. Total 63 species, about 11,888 individuals.

Gary Blevins, Mary Clark, Randy Clark, Lorena Combs, Louise Davis, Lawrence Doughty, Edward Dyck, Jennifer Dyck, Dan Dyck, Linda Dyck, Tony Dyck, Cathy Glasscock, Laura Harmon (compiler — 3002 E. 30th St., Hutchinson, KS, 67502), Alan Jahn, David Keim, Alan Kruse, Jim Smith, Francis Webb, Marcalee Webb.

**Salina.** 38° 50'N, 97° 38'W. Center State Street Rd. 1 mi W of Ninth Street, Salina, KS. Habitat coverage: oldfields and fencerows 28%, cultivated fields 18%, riparian forest 16%, grassland 14%, residential areas 14%, coniferous stands 5%, lakes and rivers 4%, upland deciduous forest 1%. 18 December 1988, 7:30 a.m. to 5:30 p.m., 28° to 63°F; Wind SW, 3-5 m.p.h.; waters partly frozen; some farm ponds completely dry; clear. Eighteen observers in 5 parties. Total party-hours 33 (14 on foot, 19 by car). Total party-miles 264 (16 on foot, 248 by car).

Canada Goose 30, Green-winged Teal 54, Northern Harrier 5, Cooper's Hawk 1, *Accipiter* sp. 1, Red-tailed Hawk 64, Rough-legged Hawk 4, *Buteo* sp. 3, American Kestrel 28, Merlin 1 (excellent details — Ed.), Ring-necked Pheasant 30, Northern Bobwhite 45, Rock Dove 844, Mourning Dove 4, Great Horned Owl 4, Long-eared Owl 2 (excellent details — Ed.), Red-bellied Woodpecker 26, Yellow-bellied Sapsucker 3, Downy Woodpecker 20, Hairy Woodpecker 4, Northern (Yellow-shafted) Flicker 31, Northern (Red-shafted) Flicker 21, Northern Flicker ssp. 8, Horned Lark 62, Blue Jay 18, Black-billed Magpie 1, American Crow 176, Black-capped Chickadee 195, Tufted Titmouse 9, Red-breasted Nuthatch 4, White-breasted Nuthatch 17, Brown Creeper 5, Golden-crowned Kinglet 11, Ruby-crowned Kinglet 3, Eastern Bluebird 5, American Robin 549, Northern Mockingbird 1, Brown Thrasher 2, Loggerhead Shrike 5, European Starling 2868, Northern Cardinal 65, American Tree Sparrow 311, Song Sparrow 1, White-crowned Sparrow 2, Harris' Sparrow 66, Dark-eyed (Slate-colored) Junco 101, Dark-eyed (Oregon) Junco 27, Red-winged Blackbird 97, Western Meadowlark 2, *Sturnella* sp. 221, Rusty Blackbird 21, Common Grackle 3, Brown-headed Cowbird 17, American Goldfinch 21, House Sparrow 1239. Total 49 species (2 additional subspecies), about 7,358 individuals. Seen during count period, but not on count day — Eastern Screech-owl.

Cynthia Abbott, Tom Buckley, Stephen Burr, Dave and Nancy Clark, Shannon Drews-Rayl, David and Kevin Haight, Allen Jahn, John Karath, Mindy Killion, Bryan Klostermeyer, Harriet Lanton, Harold (compiler — 612 Max Ave., Salina, KS, 67401) and Virginia Lear, Charles and Ivy Marsh, Cathy Strowig (Smoky Hill Audubon Society).

**Sawyer.** 37° 32'N, 98° 41'W. Center 2 mi N Sawyer, KS. Habitat coverage: cultivated fields 70%, grassland 20%, oldfields and fencerows 7%, riparian woodland 3%. 17 December 1988, 8 a.m. to 4:45 p.m., 19° to 45°F; Wind SW, 5-8 m.p.h.; waters open; clear. Eight observers in 3 parties. Total party-hours 25 (12 on foot, 13 by car). Total party-miles 135 (8 on foot, 127 by car).

Great Blue Heron 20, Wood Duck 8, Green-winged Teal 15, Mallard 367, Northern Shoveler 1, Common Merganser 4, Northern Harrier 10, Sharp-shinned Hawk 1, Red-tailed Hawk 20, Rough-legged Hawk 5, American Kestrel 26, Prairie Falcon 5, Ring-necked Pheasant 8, Wild Turkey 61, Northern Bobwhite 40, Common Snipe 4, Rock Dove 78, Eastern Screech-owl 1, Great Horned Owl 6, Barred Owl 3, Belted Kingfisher 11, Red-headed Woodpecker 4, Red-bellied Woodpecker 35, Downy Woodpecker 26, Hairy Woodpecker 13, Northern (Yellow-shafted) Flicker 15, Northern (Red-shafted) Flicker 7, Northern Flicker ssp. 5, Horned Lark 103, Blue Jay 4, American Crow 178, Black-capped Chickadee 73, Tufted Titmouse 4, White-breasted Nuthatch 25, Brown Creeper 10, Golden-crowned Kinglet 16, Ruby-crowned Kinglet 8, Eastern Bluebird 51, American Robin 6, Loggerhead Shrike 1, European Starling 998, Yellow-rumped (Myrtle) Warbler 8, Northern Cardinal 24, American Tree Sparrow 687, Song Sparrow 62, Harris' Sparrow 98, Dark-eyed Junco ssp. 181, Red-winged Blackbird 685, *Sturnella* sp. 538, Great-tailed Grackle 1, American Goldfinch 28, House Sparrow 402. Total 50

species (1 additional subspecies), about 4,990 individuals. Seen in area during count period, but not on count day — Cooper's Hawk.

Kevin Becker, Ken Brunson, Bob Hartmann, Paul Koenig, Charles Nilon, Byron Walker, Bob Wood (compiler — 502 Commodore, Pratt, KS, 67124), Larry Zuckerman.

**Scott Lake.** 38° 35'N, 100° 56'W. Center 7 mi N junction U.S. 83 and K96. Habitat coverage: riparian woodland 40%, lakes and rivers 20%, residential areas (including feedlots) 10%, marsh 10%, cultivated fields 10%, coniferous stands 5%, grassland 5%. 7 January 1989, 7:30 a.m. to 5 p.m., 20° to 25°F; Wind N, 35 m.p.h.; waters mostly frozen; light snow flurries in early AM, clear rest of day. Seven observers in 3 parties. Total party-hours 27 (15 on foot, 12 by car). Total party-miles 161 (9 on foot, 152 by car).

Canada Goose 27, Wood Duck 5, Green-winged Teal 1, Mallard 252, Northern Pintail 2, Gadwall 2, American Wigeon 5, Northern Harrier 17, Sharp-shinned Hawk 1, Cooper's Hawk 2, Red-tailed Hawk 5, Ferruginous Hawk 3, Rough-legged Hawk 7, Golden Eagle 1, American Kestrel 7, Prairie Falcon 1, Wild Turkey 26, Virginia Rail 1 (good details — Ed.), Killdeer 2, Common Snipe 3, Rock Dove 33, Great Horned Owl 5, Long-eared Owl 1, Belted Kingfisher 2, Red-bellied Woodpecker 2, Downy Woodpecker 7, Hairy Woodpecker 5, Northern (Yellow-shafted) Flicker 3, Northern (Red-shafted) Flicker 14, Northern Flicker ssp. 6, Horned Lark 18,645, Blue Jay 1, Black-billed Magpie 13, Black-capped Chickadee 47, White-breasted Nuthatch 7, Brown Creeper 8, Golden-crowned Kinglet 8, Townsend's Solitaire 8, American Robin 21, Northern Mockingbird 1, Brown Thrasher 1, Cedar Waxwing 10, Northern Shrike 1, European Starling 263, Northern Cardinal 3, American Tree Sparrow 196, Song Sparrow 23, Swamp Sparrow 1 (good details — Ed.), Golden-crowned Sparrow 1 (photo — Ed.), White-crowned Sparrow 82, Harris' Sparrow 22, Dark-eyed (Slate-colored) Junco 56, Dark-eyed (Oregon) Junco 140, Dark-eyed (White-winged) Junco 6, Dark-eyed Junco ssp. 283, Lapland Longspur 3604, Western Meadowlark 46, Purple Finch 3, House Finch 64, American Goldfinch 6, House Sparrow 591. Total 56 species (3 additional subspecies), about 24,609 individuals. Seen in area during count period, but not on count day — Pied-billed Grebe, Great Blue Heron, Ring-necked Duck, Bald Eagle, Ring-necked Pheasant, American Coot, Eastern Screech-owl.

Dan LaShelle, Sara Norman, Mike Rader, Marvin Schwilling, Diane and Scott Seltman, Tom Shane (compiler — P. O. Box 915, Salina, KS, 67402).

**Topeka.** 39° 02'N, 95° 40'W. Center State Capitol. Habitat coverage: oldfields and fencerows 25%, residential areas 20%, lakes and rivers 15%, upland deciduous forest 10%, riparian forest 10%, cultivated fields 10%, grassland 5%, coniferous stands 5%. 17 December 1988, 7 a.m. to 5:15 p.m., 14° to 45°F; Wind N, 0-10 m.p.h.; waters partly frozen; partly cloudy to clear. Thirty-four observers in 12 parties and 10 observers at feeders. Total party-hours 88 (46 on foot, 42 by car) plus 25 hrs at feeders. Total party-miles 419 (45 on foot, 374 by car).

Great Blue Heron 11, Canada Goose 124, Green-winged Teal 19, Mallard 349, Northern Pintail 1, Gadwall 20, Canvasback 2, Ring-necked Duck 53, Lesser Scaup 27, Common Goldeneye 76, Bufflehead 4, Common Merganser 152, Red-breasted Merganser 1 (good details — Ed.), Bald Eagle 9, Northern Harrier 10, Red-tailed Hawk 56, American Kestrel 29, Merlin 1, Ring-necked Pheasant 4, Wild Turkey 9, Northern Bobwhite 92, American Coot 12, Killdeer 3, Ring-billed Gull 68, Herring Gull 1, Rock Dove 101, Mourning Dove 176, Great Horned Owl 10, Belted Kingfisher 15, Red-bellied Woodpecker 95, Yellow-bellied Sapsucker 6, Downy Woodpecker 107, Hairy Woodpecker 20, Northern (Yellow-shafted) Flicker 117, Northern (Red-shafted) Flicker 3, Horned Lark 72, Blue Jay 184, American Crow 268, Black-capped Chickadee 426, Tufted Titmouse 93, Red-breasted Nuthatch 2, White-breasted Nuthatch 60, Brown Creeper 14, Carolina Wren 3, Golden-crowned Kinglet 8, Eastern Bluebird 101, American Robin 528, Northern Mockingbird 4, Cedar Waxwing 233, Loggerhead Shrike 5, European Starling 2344, Northern Cardinal 293, American Tree Sparrow 159, Field Sparrow 11, Song Sparrow 18, White-throated Sparrow 3, White-crowned Sparrow 2, Harris' Spar-

row 190, Dark-eyed (Slate-colored) Junco 671, Dark-eyed (Oregon) Junco 3, Red-winged Blackbird 52, Eastern Meadowlark 154, *Sturnella* sp. 21, Common Grackle 9, Brown-headed Cowbird 2, Purple Finch 2, Pine Siskin 4, American Goldfinch 141, House Sparrow 959. Total 66 species (2 additional subspecies), about 8,822 individuals. Seen in area during count period, but not on count day — Wood Duck, Hooded Merganser, Sharp-shinned Hawk, Red-headed Woodpecker.

Virgil Basgall, Maggie Beers, Jim and Joanne Brier, Scott Campbell, Randy Carman, Artie Coop, Arlene Delker, Kirk Downing, Jim Finn, Bob Foster, Dan Gish, Dean and Gladys Grissel, Gary Haden, Gwen Haegert, Dorothy Harvey, Marge Heeney, Phyllis Henney, Patsy Hodges, Doris Horton, Scotty Johnson, Dan Larson, Bob Lawson, E. M. and E. R. Lewis (compiler — 1285 MacVicar, Topeka, KS, 66604), Brad May, Sarah Merrill, Linda Mowbray, Emlen North, Ron Parks, Jan Pitler, Joanne Ramberg, Leah Roberts, Alverna and Lloyd Robinson, John Row, Barbara Shepard, Pat Stein, Marie Wadleigh, Darlene Webb, Eugene Willett, Lil and Paul Willis.

**Tribune.** 38° 27'N, 101° 45'W. Center Tribune, KS. Habitat coverage: grassland, residential areas (%'s not given). 17 December 1988, 9 a.m. to 5 p.m., about 36°F; Wind N, 10 m.p.h. Nine observers in 5 parties and ? observers at feeders. Total party-hours 24 (all by car) plus 16 hrs at feeders. Total party-miles 40 (all by car).

Lesser Scaup 10, Bald Eagle 2, Red-tailed Hawk 5, Prairie Falcon 2, Ring-necked Pheasant 50, Rock Dove 15, Mourning Dove 2, Northern (Yellow-shafted) Flicker 2, Horned Lark 1000, Blue Jay 15, American Robin 5, European Starling 500, Dark-eyed (Slate-colored) Junco 10, Lapland Longspur 100,000, Red-winged Blackbird 12, Western Meadowlark 10, Pine Siskin 3, House Sparrow 50. Total 17 species, about 101,693 individuals.

Lawrence Abbott (compiler — Box 433, Tribune, KS, 67879), Jim Crotinger, Luther Keith, Luvene Keith, Buford Kuttler, Violet Liljegren, Calvin Pringle, Roxi Pringle, Clarence Sawyer.

**Udall-Winfield.** 37° 16'N, 96° 59'W. Center water tower at Winfield State Training School. Habitat coverage: upland deciduous forest 40%, grassland 23%, cultivated fields 20%, riparian forest 10%, residential areas 4%, lakes and rivers 3%. 18 December 1988, 8 a.m. to 5 p.m., 27° to 57°F; Wind S, 10 m.p.h.; waters open. Sixteen observers in 6 parties and 1 observer at feeders. Total party-hours 44 (11 on foot, 33 by car) plus 3 hrs owling and 8 hrs at feeders. Total party-miles 340 (15 on foot, 325 by car) and 66 miles owling.

Great Blue Heron 61, Greater White-fronted Goose 24, Canada Goose 70, Green-winged Teal 2, Mallard 1929, Northern Pintail 2, Gadwall 87, Ring-necked Duck 1, Lesser Scaup 6, Common Goldeneye 47, Bufflehead 17, Hooded Merganser 61, Common Merganser 13, Bald Eagle 12, Northern Harrier 28, Sharp-shinned Hawk 2, Cooper's Hawk 2, Red-tailed Hawk 171, Red-tailed (Harlan's) Hawk 1, Rough-legged Hawk 1, American Kestrel 65, Prairie Falcon 2, Ring-necked Pheasant 4, Wild Turkey 80, Northern Bobwhite 75, Killdeer 13, Ring-billed Gull 31, Herring Gull 1, Rock Dove 72, Mourning Dove 31, Eastern Screech-owl 9, Great Horned Owl 19, Barred Owl 12, Belted Kingfisher 9, Red-headed Woodpecker 37, Red-bellied Woodpecker 65, Yellow-bellied Sapsucker 1, Downy Woodpecker 55, Hairy Woodpecker 5, Northern (Yellow-shafted) Flicker 63, Northern (Red-shafted) Flicker 4, Pileated Woodpecker 4, Horned Lark 416, Blue Jay 118, American Crow 348, Black-capped Chickadee 47, Carolina Chickadee 139, Tufted Titmouse 81, White-breasted Nuthatch 33, Brown Creeper 8, Carolina Wren 4, Bewick's Wren 5, Golden-crowned Kinglet 33, Ruby-crowned Kinglet 7, Eastern Bluebird 53, American Robin 1243, Northern Mockingbird 13, Cedar Waxwing 12, Loggerhead Shrike 21, European Starling 1614, Yellow-rumped (Myrtle) Warbler 4, Northern Cardinal 235, American Tree Sparrow 929, Field Sparrow 7, Fox Sparrow 4, Song Sparrow 49, Lincoln's Sparrow 3, White-crowned Sparrow 4, Harris' Sparrow 781, Dark-eyed (Slate-colored) Junco 283, Dark-eyed (Oregon) Junco 6, Lapland Longspur 200, Red-winged Blackbird 8905, Eastern Meadowlark 4, Western Mea-

dowlark 1, *Sturnella* sp. 567, Yellow-headed Blackbird 1 (good details — Ed.), Rusty Blackbird 40, Brewer's Blackbird 366, Common Grackle 110, Brown-headed Cowbird 3102, Pine Siskin 3, American Goldfinch 515, House Sparrow 870. Total 80 species (3 additional subspecies), about 24,323 individuals. Seen in area during count period, but not on count day — Double-crested Cormorant, American Wigeon, Pomarine Jaeger (details considered to be excellent by compiler, but were not provided — Ed.).

Betty and Duane Anderson, Fritz Barnard, James Barnes, Wallace Champeny, Jack and Norma Dennett, Janet Laws, Bill Langley, Eddie and Savilla Stegall, Max Thompson (compiler — 1729 E. 11th, Winfield, KS, 67156), Ross Williams, Gerald Wiens, Donna and Lee Wilt, Eugene Young.

**Wichita.** 37° 41'N, 97° 20'W. Center confluence of Arkansas and Little Arkansas Rivers. Habitat coverage: riparian woodland 40%, residential areas 30%, lakes and rivers 15%, cultivated fields 10%, marsh 5%. 17 December 1988, 8 a.m. to 5 p.m., 26° to 51°F; Wind SW, 0-5 m.p.h.; waters partly frozen; clear. Sixteen observers in 7 parties and 3 observers at feeders. Total party-hours 39 (23 on foot, 16 by car) plus 12 hrs at feeders. Total party-miles 253 (18 on foot, 235 by car).

Pied-billed Grebe 4, American White Pelican 1, Great Blue Heron 25, Canada Goose 3330, Wood Duck 1, Green-winged Teal 77, Mallard 1553, Northern Shoveler 3, Gadwall 228, American Wigeon 2, Ring-necked Duck 5, Lesser Scaup 7, Common Goldeneye 87, Bufflehead 4, Common Merganser 2, Northern Harrier 1, Sharp-shinned Hawk 4, Red-tailed Hawk 61, American Kestrel 12, Prairie Falcon 1, Ring-necked Pheasant 40, Northern Bobwhite 27, American Coot 196, Killdeer 14, Common Snipe 8, Ring-billed Gull 596, Rock Dove 1486, Mourning Dove 50, Eastern Screech-owl 3, Great Horned Owl 10, Belted Kingfisher 10, Red-bellied Woodpecker 16, Yellow-bellied Sapsucker 2, Downy Woodpecker 58, Hairy Woodpecker 5, Northern (Yellow-shafted) Flicker 67, Northern (Red-shafted) Flicker 1, Northern Flicker ssp. 4, Horned Lark 50, Blue Jay 71, American Crow 11,983, Black-capped Chickadee 215, Tufted Titmouse 47, Red-breasted Nuthatch 2, White-breasted Nuthatch 6, Brown Creeper 7, Carolina Wren 5, Bewick's Wren 1, Golden-crowned Kinglet 13, Ruby-crowned Kinglet 1, American Robin 42, Northern Mockingbird 5, Brown Thrasher 1, Cedar Waxwing 11, Northern Shrike 1, Loggerhead Shrike 3, European Starling 3001, Yellow-rumped (Myrtle) Warbler 2, Northern Cardinal 211, Rufous-sided Towhee 9, American Tree Sparrow 768, Field Sparrow 2, Song Sparrow 67, Lincoln's Sparrow 1, Swamp Sparrow 1, White-throated Sparrow 4, White-crowned Sparrow 1, Harris' Sparrow 479, Dark-eyed (Slate-colored) Junco 543, Dark-eyed (Oregon) Junco 1, Red-winged Blackbird 811, *Sturnella* sp. 39, Brewer's Blackbird 2, Great-tailed Grackle 522, Common Grackle 90, Brown-headed Cowbird 26, House Finch 5, American Goldfinch 307, House Sparrow 1087. Total 76 species (2 additional subspecies), about 28,444 individuals. Seen in area during count period, but not on count day — Bald Eagle, Peregrine Falcon.

Walker Butin, Wallace Champeny (compiler — RR1, Oxford, KS, 67119), Don Ferguson, Rick Goodrick, Bob Gress, Joanne Hackerott, Dan Kilby, Mike Lesan, John Northrup, Jean and Miriam Road, Eddie and Savilla Stegall, Don Vannoy, Gerald Wiens, Ralph Wiley.

**Wilson County.** 37° 37'N, 95° 45'W. Center Benedict, KS. Habitat coverage: riparian forest 30%, lakes and rivers 20%, grassland 20%, oldfields and fencerows 10%, upland deciduous forest 10%, cultivated fields 5%, residential areas 3%, coniferous stands 2%. 7 January 1989, 7:15 a.m. to 4:45 p.m., 27° to 49°F; Wind S, 5-10 m.p.h. in AM, changing to NW, 10-20 m.p.h. in PM; clear in AM, overcast in PM with decreasing temperatures; waters open. Five observers in 2 parties and 2 observers at feeders. Total party-hours 14 (5 on foot, 9 by car) plus 0.5 hrs owling and 6 hrs at feeders. Total party-miles 158 (8 on foot, 150 by car) and 8 miles owling.

Great Blue Heron 4, Canada Goose 11, Green-winged Teal 41, Mallard 21, Northern Shoveler 13, Common Goldeneye 20, Bufflehead 1, Bald Eagle 1, Northern Harrier 26, Red-shouldered Hawk 1, Red-tailed Hawk 32, Red-tailed (Harlan's) Hawk 1, Rough-

legged Hawk 1, American Kestrel 14, Merlin 1, Prairie Falcon 3, Northern Bobwhite 12, Ring-billed Gull 3, Rock Dove 6, Mourning Dove 7, Great Horned Owl 4, Barred Owl 1, Short-eared Owl 1, Belted Kingfisher 2, Red-bellied Woodpecker 11, Downy Woodpecker 9, Hairy Woodpecker 4, Northern (Yellow-shafted) Flicker 21, Northern (Red-shafted) Flicker 1, Northern Flicker ssp. 3, Horned Lark 60, Blue Jay 17, American Crow 122, Black-capped Chickadee 17, Carolina Chickadee 2, Tufted Titmouse 10, White-breasted Nuthatch 3, Carolina Wren 1, Winter Wren 1, Eastern Bluebird 17, American Robin 431, Loggerhead Shrike 6, European Starling 82, Northern Cardinal 32, Rufous-sided Towhee 1, American Tree Sparrow 157, Song Sparrow 2, White-throated Sparrow 1, White-crowned Sparrow 5, Harris' Sparrow 35, Dark-eyed (Slate-colored) Junco 78, Dark-eyed Junco ssp. 5, Red-winged Blackbird 353, Eastern Meadowlark 121, Rusty Blackbird 10, Brewer's Blackbird 200, Brown-headed Cowbird 605, American Goldfinch 36, House Sparrow 68. Total 55 species (2 additional subspecies), about 2,754 individuals. Seen in area during count period, but not on count day — Greater Prairie-chicken, Northern Mockingbird.

Jeri and Tom Cannon (compiler — 908 W. Meadowbrook Rd., Iola, KS, 66749), Bruce, Carey and Martha Peck, Howard and Julia Stonebraker.

**Wilson Reservoir.** 38° 56'N, 98° 34'W. Center northernmost point of Minooka Park (6 mi NNE of Dorrance, KS). Habitat coverage: lakes and rivers 35%, grassland 20%, riparian woodland 15%, oldfields and fencerows 15%, cultivated fields 8%, coniferous stands 5%, marsh 2%. 28 December 1988, 7:30 a.m. to 5:30 p.m., 10° to 40°F; Wind calm to N, 10 m.p.h.; reservoir 90% open; ponds mostly dry; clear. Six observers in 3 parties. Total party-hours 29 (17 on foot, 12 by car) plus 1 hr owling. Total party-miles 240 (11 on foot, 229 by car) and 8 miles owling.

Great Blue Heron 1, Canada Goose 5986, Green-winged Teal 38, Mallard 63, Gadwall 8, American Wigeon 5, Redhead 5, Lesser Scaup 53, Common Goldeneye 132, Bufflehead 2, Hooded Merganser 23, Common Merganser 39, Ruddy Duck 2, Bald Eagle 5, Northern Harrier 8, Sharp-shinned Hawk 1, Red-tailed Hawk 17, Golden Eagle 1, American Kestrel 21, Prairie Falcon 1, Ring-necked Pheasant 2, Common Snipe 2, Ring-billed Gull 503, Herring Gull 10, Rock Dove 2, Great Horned Owl 9, Belted Kingfisher 8, Red-bellied Woodpecker 4, Downy Woodpecker 9, Northern (Yellow-shafted) Flicker 12, Northern (Red-shafted) Flicker 2, Horned Lark 200, Blue Jay 3, Black-billed Magpie 1, American Crow 15, Black-capped Chickadee 53, White-breasted Nuthatch 1, Golden-crowned Kinglet 2, Eastern Bluebird 21, Mountain Bluebird 411, Townsend's Solitaire 1, American Robin 389, Loggerhead Shrike 7, European Starling 232, Northern Cardinal 18, American Tree Sparrow 475, Song Sparrow 8, Lincoln's Sparrow 5, Harris' Sparrow 191, Dark-eyed (Slate-colored) Junco 145, Red-winged Blackbird 106, Western Meadowlark 81, American Goldfinch 2, House Sparrow 220. Total 53 species (1 additional subspecies), about 9,561 individuals.

Jeri and Tom Cannon (compiler — 908 W. Meadowbrook Rd., Iola, KS, 66749), Karen and Ray Ganoung, James and Jean Piland.

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