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THE WINTER BIRD COUNT FOR 1985

John L. Zimmerman

Early in the season the abnormally cold air masses sweeping across the upper Great Plains in a series of rapid fronts drove thousands of waterfowl into Kansas. But with each successive invasion of arctic air the jet stream sagged a little further south so that most of Kansas began to find November and December more like January. And with the cold, the ponds, streams, reservoirs and rivers began to freeze and the geese, ducks, and gulls departed, leaving just a remnant of the population along open stretches of the major rivers or huddled around spring-fed pools and riffles in protected creek valleys. Thus both the numbers of individuals and the species diversity of waterfowl were lower than usual in Kansas. Even the "typical" winter ducks were scarce with Goldeneye occurring on less than half the counts and Common Mergansers on about one third. Although Mallards were present on about 90 percent of the counts, an expected frequency of occurrence, numbers were quite reduced. For example, Manhattan averages around 10,000 Mallards, but this year could find only 310. This was the pattern across most of the state except for counts along the southern border, like Elk City Reservoir and Wichita, where variety and, for some species, numbers appeared to be similar to previous years. Another exception was the large number of Snow Geese in the bottomlands along the Missouri River which resulted in Atchison counting 35,000 birds on census day (and twice that number 5 days later).

The other pattern that is evident in the results of this year's count is a definite invasion of montane coniferous birds eastward on to the plains of Kansas. Pygmy Nuthatches not only got as far as the Elkhart cemetery, but were in Junction City on count day and in Salina during count week. White-winged (Dark-eyed) Juncos occurred along with the expected Slate-colored and Oregon Juncos at Cedar Bluff Reservoir, Hays, Scott Lake, and as far east as Manhattan, while Emporia found the other western subspecies, the Gray-headed. And I suspect the large numbers of Evening Grosbeaks (on about one-third of the counts) had descended from the mountains as well, since the rest of the "northern" finches like crossbills and redpolls were not found during the count period anywhere in the state. It may also be that the Golden Eagles that were seen in Arkansas City and Baldwin (as well as 5 other locations) also reflected this pattern.

In spite of the severe cold in the state in the weeks before the count period, most observers enjoyed moderate weather on count day. And indeed, a surprising number of more southerly wintering species were still to be found on count day. There were Ruby-crowned Kinglets at Arkansas City, Halstead-Newton, Sawyer and Wichita; Hermit Thrushes lingered at Baldwin and Emporia. Emporia and Wichita also found a Yellow-headed Blackbird; Garden City had a Vesper Sparrow; and Wilson Reservoir identified a Savannah Sparrow. Halstead-Newton reported a Turkey Vulture, and the horde at Manhattan discovered their first Gray Catbird. Parsons conducted their first winter bird count and added a Pied-billed Grebe for count day and an Osprey during the count period. Wichita also had a Pied-billed Grebe as well as a single Black-crowned Night Heron and two each of Blue-winged Teal and Ruddy Ducks (and maybe a Chipping Sparrow). Scott Lake complemented their Northern Goshawk, Northern Shrike, and Snow Bunting with a Virginia Rail discovered running around in the snow between clumps of cattails.

While the 133 species this year is lower than the average of 143 species for the

previous 5 years, the number of observers (587) is an alltime high. The 34 counts are also a record-breaking total. Two new counts joined this year — Parsons and Cedar Bluff Reservoir, each providing unique contributions to our total effort.

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%. December 28, 1985. 8:00 a.m. to 5:00 p.m. 22° to 41° F; wind SW, 5-20 m.p.h.; waters mostly open; no snow cover; clear. Seventeen observers in 5 parties. Total party-hours 63 (33 by foot, 30 by car). Total party-miles 419 (35 on foot, 384 by car).

Great Blue Heron 11, Canada Goose 31, Mallard 73, Common Goldeneye 2, Common Merganser 12, Bald Eagle 22, Northern Harrier 36, Cooper's Hawk 2, Red-tailed Hawk 118, Red-tailed (Harlan's) Hawk 1, Rough-legged Hawk 1, Golden Eagle 1, American Kestrel 31, Prairie Falcon 4, Ring-necked Pheasant 3, Northern Bobwhite 46, Killdeer 1, Ring-billed Gull 129, Rock Dove 116, Mourning Dove 17, Eastern Screech-owl 1, Great Horned Owl 5, Barred Owl 4, Belted Kingfisher 5, Red-headed Woodpecker 5, Red-bellied Woodpecker 70, Yellow-bellied Sapsucker 2, Downy Woodpecker 89, Hairy Woodpecker 7, Northern (Yellow-shafted) Flicker 34, Northern (Red-shafted) Flicker 4, Northern Flicker ssp. 28, Pileated Woodpecker 2, Horned Lark 107, Blue Jay 129, American Crow 289, Carolina Chickadee 649, Tufted Titmouse 94, Red-breasted Nuthatch 1, White-breasted Nuthatch 31, Brown Creeper 8, Carolina Wren 7, Bewick's Wren 2, Winter Wren 2, Golden-crowned Kinglet 9, Ruby-crowned Kinglet 1, Eastern Bluebird 35, American Robin 117, Northern Mockingbird 24, Cedar Waxwing 101, Loggerhead Shrike 10, European Starling 2023, Yellow-rumped (Myrtle) Warbler 2, Northern Cardinal 182, Rufous-sided Towhee 8, American Tree Sparrow 490, Field Sparrow 15, Fox Sparrow 2, Song Sparrow 38, Lincoln's Sparrow 1, White-throated Sparrow 3, White-crowned Sparrow 9, Harris' Sparrow 1730, Dark-eyed (Slate-colored) Junco 1518, Dark-eyed (Oregon) Junco 8, Dark-eyed Junco ssp. 17, Lapland Longspur 200, Red-winged Blackbird 2692, Eastern Meadowlark 8, Western Meadowlark 3, *Sturnella* sp. 398, Rusty Blackbird 64, Brewer's Blackbird 52, Great-tailed Grackle 2, Common Grackle 49, Brown-headed Cowbird 89, Pine Siskin 60, American Goldfinch 160, Evening Grosbeak 72, House Sparrow 1718. Total 74 species (3 additional subspecies), about 14,142 individuals.

Beverly and John DuGay, Rick Goodrick, Bob Gress, Mike Lesan, Jeff and Stuart Lord, Jean and Miriam Roark, David Seibel, Donald Vannoy (compiler — 2458 Coolidge, Wichita, KS 67204), Gerald Wiens, Mary and Ralph Wiley, Larry and Ross Williams, Jim Wilson (Wichita Audubon Society).

Atchison. 39° 34'N, 95° 08'W. Center U.S. 59 and the Missouri-Kansas border (middle of the Missouri River). Habitat coverage: cultivated fields 42%, upland deciduous forest 30%, residential areas 9%, lakes and rivers 9%, marsh 4%, grassland 2%, oldfields and fencerows 2%, riparian forest 2%. December 14, 1985. 7:00 a.m. to 5:00 p.m. 5° to 30° F; wind S, 0-20 m.p.h.; most water frozen except river partly open; 0-1" snow cover; clear. Six observers in 2 parties. Total party-hours 13 (1 on foot, 12 by car). Total party-miles 75 (2 on foot, 73 by car).

Snow Goose (white morph) 21,000, Snow Goose (blue morph) 14,000, Canada Goose 1, Mallard 21, Common Goldeneye 2, Bald Eagle 7, Northern Harrier 1, Red-tailed Hawk 10, Rough-legged Hawk 3, American Kestrel 5, Ring-necked Pheasant 8, Rock Dove 66, Mourning Dove 2, Red-headed Woodpecker 11, Red-bellied Woodpecker 7, Downy Woodpecker 16, Hairy Woodpecker 2, Northern (Yellow-shafted) Flicker 12, Horned Lark 95, Blue Jay 48, American Crow 26, Black-capped Chickadee 77, Tufted Titmouse 16, Red-breasted Nuthatch 1, White-breasted Nuthatch 2, Golden-crowned Kinglet 2, Eastern Bluebird 4, American Robin 337, Loggerhead Shrike 3, European Starling 938, Northern Cardinal 52, American Tree Sparrow 133, Song Sparrow 2, White-throated Sparrow 2, Harris' Sparrow 6, Dark-eyed (Slate-colored) Junco 235, Red-winged Blackbird 10,396, Eastern Meadowlark 1, *Sturnella* sp. 12, Common Grackle 4, Brown-headed Cowbird 1, Purple Finch 2, American Goldfinch 13, House Sparrow 273. Total 42 species, about 47,855 individuals.

Daniel Bowen (compiler — Biology Dept., Benedictine College, Atchison, KS 66002), Thomas Kemlage, Roger Lee, Addison Marquart, Douglas Shevlin, Martin Simon.

Baldwin. 38° 47'N, 95° 16'W. Center junction of U.S. 56 and U.S. 59. Habitat coverage: riparian forest 25%, cultivated fields 16%, upland deciduous forest 15%, grassland 15%, oldfields and fencerows 14%, lakes and rivers 7%, coniferous stands 4%, residential areas 4%. December 22, 1985. 5:40 a.m. to 5:30 p.m., 30° to 47° F; wind SW, 5-10 m.p.h.; lakes frozen, streams partly open; 3" of snow on ground; clear. Twenty-seven observers in 10 parties and 3 observers at feeders. Total party-hours 66 (18 on foot, 48 by car) plus 4.5 hrs. owling and 12 hrs. at feeders. Total party-miles 529 (19 on foot, 510 by car) and 19 miles owling.

Bald Eagle 2, Northern Harrier 15, Sharp-shinned Hawk 7, Red-tailed Hawk 106, Red-tailed (Harlan's) Hawk 2, Rough-legged Hawk 2, Golden Eagle 1 (excellent details — Ed.), American Kestrel 31, Northern Bobwhite 12, Rock Dove 96, Mourning Dove 30, Eastern Screech-owl 9, Great Horned Owl 24, Red-headed Woodpecker 6, Red-bellied Woodpecker 47, Yellow-bellied Sapsucker 1, Downy Woodpecker 57, Hairy Woodpecker 10, Northern (Yellow-shafted) Flicker 70, Northern (Red-shafted) Flicker 1, Northern Flicker ssp. 10, Horned Lark 903, Blue Jay 215, American Crow 346, Black-capped Chickadee 195, Tufted Titmouse 75, White-breasted Nuthatch 27, Brown Creeper 3, Golden-crowned Kinglet 4, Eastern Bluebird 86, Hermit Thrush 1 (excellent details — Ed.), American Robin 406, Northern Mockingbird 9, Brown Thrasher 1, Cedar Waxwing 4, Loggerhead Shrike 9, European Starling 12,956, Yellow-rumped (Myrtle) Warbler 1, Northern Cardinal 212, Rufous-sided Towhee 3, American Tree Sparrow 836, Field Sparrow 1, Fox Sparrow 5, Song Sparrow 11, Lincoln's Sparrow 1, White-throated Sparrow 5, White-crowned Sparrow 27, Harris' Sparrow 32, Dark-eyed Junco ssp. 508, Red-winged Blackbird 853, Eastern Meadowlark 5, *Sturnella* sp. 251, Rusty Blackbird 1, Brewer's Blackbird 150, Common Grackle 191, Brown-headed Cowbird 225, Purple Finch 45, Pine Siskin 123, American Goldfinch 337, Evening Grosbeak 58, House Sparrow 936. Total 57 species (2 additional subspecies), about 20,596 individuals. Seen in area during count period but not on count day — Belted Kingfisher, Red-breasted Nuthatch.

Genny Agin, Jan, Margaret and Roger Boyd (compiler — Biology Dept., Baker Univ., Baldwin City, KS 66006), Mary and Tom Church, Calvin Cink, Steve Crawford, Lois Cromwell, Jackie Crossley, David, Derek and Mary Dunsmoor, Linn Eberwein, Ruth Faulh, Jennifer Jones, Katharine Kelley, Mike and Patty Mueller, Galen Pittman, Barbara and Martin Pressgrove, Richard Rucker, Roseanne Smith, Rhoda Spear, Joyce and Ron Wolf.

Camp Naish. 39° 04'N, 94° 52'W. Center corner of sections 21, 22, 27 and 28, T11S, R23E, Wyandotte Co. Habitat coverage: riparian forest 45%, upland deciduous forest 35%, oldfields and fencerows 10%, grassland 5%, swamp 3%, lakes and rivers 1%, residential areas 1%. December 23, 1985. 6:30 a.m. to 4:30 p.m. 32° to 44° F; wind S, 8 m.p.h.; ponds 90% frozen; ground sleet-covered but thawing with heavy run-off; clear. Five observers in 2 parties. Total party-hours 9 (8 on foot, 1 by car) plus 0.5 hrs. owling. Total party-miles 20 (16 on foot, 4 by car) and 0.5 miles owling (on foot).

Canada Goose 14, Red-tailed Hawk 5, American Kestrel 1, Rock Dove 35, Red-headed Woodpecker 26; Red-bellied Woodpecker 18, Downy Woodpecker 12, Hairy Woodpecker 2, Northern (Yellow-shafted) Flicker 2, Blue Jay 31, American Crow 6, Black-capped Chickadee 48, Tufted Titmouse 23, White-breasted Nuthatch 7, Carolina Wren 3, American Robin 4, Cedar Waxwing 12, European Starling 34, Northern Cardinal 27, American Tree Sparrow 1, Song Sparrow 2, Dark-eyed Junco ssp. 55, Pine Siskin 3, American Goldfinch 9, House Sparrow 4. Total 25 species, about 384 individuals.

Byron Berger, David Reber, Stan Roth (compiler — Lawrence High School, Lawrence, KS 66046), Chris Rush, Joel Rush.

Cedar Bluff Reservoir. 38° 47'N, 99° 46'W. Center middle of Cedar Bluff Reservoir 2 mi. W of the dam. Habitat coverage: grasslands 50%, cultivated fields 20%, riparian woodland 15%, lakes and rivers 15%. January 12, 1986. 7:40 a.m. to 5:40 p.m. 28° to 55° F; wind NW, 0-15 m.p.h.; water partly open; no snow cover; clear. Four observers in 1 party. Total party-hours 10 (3 on foot, 7 by car). Total party-miles 72 (4 on foot, 68 by car).

Canada Goose 350, Mallard 2000, Northern Pintail 2, American Wigeon 50, Lesser Scaup 4, Common Goldeneye 35, Common Merganser 2, Bald Eagle 5, Northern Harrier 11, Cooper's Hawk 1, Red-tailed Hawk 15, Ferruginous Hawk 1, Rough-legged Hawk 6, Golden Eagle 1, American Kestrel 8, Prairie Falcon 1, Ring-necked Pheasant 15, Rock Dove 7, Eastern Screech-owl 3, Great Horned Owl 5, Downy Woodpecker 12, Hairy Woodpecker 2, Northern (Yellow-shafted) Flicker 1, Northern (Red-shafted) Flicker 8, Northern Flicker ssp. 2, Horned Lark 200, Black-billed Magpie 11, American Crow 20, Black-capped Chickadee 35, White-breasted Nuthatch 3, Golden-crowned Kinglet 3, Eastern Bluebird 4, Townsend's Solitaire 6, American Robin 12, Cedar Waxwing 23, Northern Shrike 1 (good details — Ed.), European Starling 50, American Tree Sparrow 190, Song Sparrow 4, White-crowned Sparrow 2, Harris' Sparrow 40, Dark-eyed (Slate-colored) Junco 20, Dark-eyed (Oregon) Junco 12, Dark-eyed (White-winged) Junco 5 (good details — Ed.), Dark-eyed Junco ssp. 10, Lapland Longspur 105, Red-winged Blackbird 125, Western Meadowlark 15, Brown-headed Cowbird 10, Pine Siskin 4, American Goldfinch 23, House Sparrow 20. Total 47 species (3 additional subspecies), about 3500 individuals. Seen in area during count period, but not on count day — Merlin, Brown Creeper.

Sarah Norman, Scott Seltman (compiler — RR, Box 36, Nekoma, KS 67559), Christopher and Tom Shane.

Cimarron National Grasslands. 37° 07'N, 101° 52'W. Center 7 mi. N, 2 mi. E Elkhart, KS. Habitat coverage: riparian woodland 30%, sand-sage grassland 20%, ponds 20%, residential areas 15%, cultivated fields 10%, rocky slopes 5%. December 28, 1985. 7:00 a.m. to 6:00 p.m. 23° to 51° F; wind SW, 0-5 m.p.h.; fresh water mostly frozen; clear. Seven observers in 3 parties. Total party-hours 24 (8 on foot, 16 by car) plus 1.5 hrs. owling. Total party-miles 201 (10 on foot, 191 by car) and 12 miles owling.

Mallard 3, Northern Harrier 6, Sharp-shinned Hawk 1, Cooper's Hawk 1, Red-tailed Hawk 3, Ferruginous Hawk 7, Rough-legged Hawk 2, Golden Eagle 2, American Kestrel 6, Prairie Falcon 1, Ring-necked Pheasant 3, Lesser Prairie-chicken 4, Northern Bobwhite 12, Scaled Quail 15, Rock Dove 37, Common Barn-owl 1, Eastern Screech-owl 4, Great Horned Owl 7, Ladder-backed Woodpecker 3 (good details — Ed.), Downy Woodpecker 2, Hairy Woodpecker 1, Northern (Red-shafted) Flicker 12, Northern Flicker ssp. 1, Horned Lark 246, Blue Jay 1, Black-billed Magpie 35, American Crow 11, Chihuahuan Raven 2 (excellent details — Ed.), Red-breasted Nuthatch 1, Pygmy Nuthatch 5 (excellent details — Ed.), Marsh Wren 1, Townsend's Solitaire 2, American Robin 12, Northern Mockingbird 1, Cedar Waxwing 17, Northern Shrike 1 (excellent details — Ed.), Loggerhead Shrike 6, European Starling 377, American Tree Sparrow 65, Song Sparrow 1, White-crowned Sparrow 4, Dark-eyed (Oregon) Junco 19, Dark-eyed Junco ssp. 4, Lapland Longspur 22, Chestnut-collared Longspur 2, Red-winged Blackbird 11, Western Meadowlark 86, Brewer's Blackbird 12, Brown-headed Cowbird 1, House Finch 41, House Sparrow 427. Total 49 species, about 1547 individuals. Seen in area during count period, but not on count day — Bald Eagle, White-breasted Nuthatch, Evening Grosbeak (excellent details — Ed.).

W. Champeny, G. Neavoll, S. Patti (compiler — 552 W. Belden Ave., Chicago, IL 60614), L. and R. Smith, D. and J. Tregellas.

Dodge City. 37° 46'N, 99° 58'W. Center St. Mary of the Plains College, Dodge City, KS. Habitat coverage: cultivated fields 58%, grassland 20%, residential areas 15%, lakes and streams 7%. January 4, 1986. 8:00 a.m. to 4:00 p.m. 30° to 35° F; wind N, 15-20 m.p.h.; water mostly open; no snow cover; clear. Twelve observers in 5 parties. Total

party-hours 28 (3 on foot, 25 by car). Total party-miles 213 (4 on foot, 209 by car).

Canada Goose 41, Mallard 121, Redhead 1, Northern Harrier 3, Red-tailed Hawk 1, Rough-legged Hawk 1, American Kestrel 2, Prairie Falcon 1, Ring-necked Pheasant 5, Rock Dove 56, Great Horned Owl 4, Yellow-bellied Sapsucker 1, Downy Woodpecker 3, Northern (Yellow-shafted) Flicker 3, Northern (Red-shafted) Flicker 4, Horned Lark 473, Black-billed Magpie 61, American Crow 239, Brown Creeper 3, American Robin 3, European Starling 26, Northern Cardinal 2, White-throated Sparrow 1, Harris' Sparrow 139, Dark-eyed (Slate-colored) Junco 13, Lapland Longspur 22, Western Meadowlark 52, Brewer's Blackbird 3, Great-tailed Grackle 1, Common Grackle 1, House Finch 45, Pine Siskin 59, American Goldfinch 11, House Sparrow 268. Total 33 species (1 additional subspecies), about 1669 individuals.

Maurice Bluemer, Peggy Button, George Cole, Margaret Cole, Paul Etrick, Jean Kirkpatrick, Christie McMillen, Janell O'Keefe, Dena Roth, Kay Lynn Smith, Sister Patricia Stanley, Shirley Vieux (compiler — Joleen Fromm, 2402 5th Ave., Dodge City, KS 67801).

Elk City Reservoir. 37° 15'N, 95° 51'W. Center Card Creek, 7 mi. W of Independence, KS. Habitat coverage: cultivated fields 40%, lakes 20%, oldfields and fencerows 20%, upland deciduous forest 20%. December 30, 1985. 8:00 a.m. to 5:00 p.m.; 45° F; wind NW, 25 m.p.h. Four observers in 2 parties. Total party-hours 16 (2 on foot, 14 by car). Total party-miles 142 (2 on foot, 140 by car).

Snow Goose (white morph) 3500, Snow Goose (blue morph) 2800, Canada Goose 550, Mallard 4500, Gadwall 500, American Wigeon 400, Canvasback 10, Redhead 25, Ring-necked Duck 20, Lesser Scaup 400, Bufflehead 10, Common Merganser 10, Bald Eagle 5, Northern Harrier 7, Cooper's Hawk 1, Red-tailed Hawk 20, Rough-legged Hawk 12, American Kestrel 9, Northern Bobwhite 2, American Coot 200, Ring-billed Gull 3, Rock Dove 60, Red-headed Woodpecker 5, Red-bellied Woodpecker 3, Downy Woodpecker 7, Northern (Yellow-shafted) Flicker 3, Blue Jay 16, American Crow 140, Black-capped Chickadee 38, Tufted Titmouse 2, White-breasted Nuthatch 2, Bewick's Wren 1, Eastern Bluebird 38, American Robin 250, Northern Mockingbird 3, Cedar Waxwing 290, Loggerhead Shrike 4, European Starling 54, Northern Cardinal 48, American Tree Sparrow 38, Field Sparrow 4, Song Sparrow 1, White-crowned Sparrow 7, Harris' Sparrow 72, Dark-eyed (Slate-colored) Junco 78, Red-winged Blackbird 85, Eastern Meadowlark 64, Rusty Blackbird 385, Purple Finch 3, Pine Siskin 2, American Goldfinch 22, House Sparrow 360. Total 51 species, about 15,069 individuals.

Hilbert Albright, Sylvia Albright (compiler — Box 258, Longton, KS 67352), John Vaughn, Shirley Weaver.

Emporia. 38° 27'N, 96° 05'W. Center 1 mi. S of Lang, KS. Habitat coverage: riparian forest 55%, grassland 20%, residential areas 8%, cultivated fields 5%, oldfields and fencerows 5%, lakes and rivers 3%, upland deciduous forest 2%, coniferous stands 1%, marsh 1%. December 22, 1985. 6:30 a.m. to 6:00 p.m. 30° to 52° F; wind NW, 5-15 m.p.h.; lakes and ponds frozen, rivers open; snow cover 1-2"; clear. Twenty-two observers in 10 parties and 1 observer at feeder. Total party-hours 93 (43 on foot, 50 by car) plus 2.5 hrs. owling and 8 hrs. at feeders. Total party-miles 632 (45 on foot, 587 by car) and 3 miles owling.

Canada Goose 227, Mallard 21, Northern Harrier 37, Sharp-shinned Hawk 1, Cooper's Hawk 1, Red-tailed Hawk 71, Rough-legged Hawk 5, American Kestrel 18, Greater Prairie-chicken 21, Northern Bobwhite 130, Rock Dove 237, Mourning Dove 30, Eastern Screech-owl 3, Great Horned Owl 13, Barred Owl 2, Long-eared Owl 9, Short-eared Owl 1, Belted Kingfisher 2, Red-headed Woodpecker 12, Red-bellied Woodpecker 47, Yellow-bellied Sapsucker 1, Downy Woodpecker 40, Hairy Woodpecker 11, Northern (Yellow-shafted) Flicker 83, Northern (Red-shafted) Flicker 4, Horned Lark 2990, Blue Jay 110, American Crow 221, Black-capped Chickadee 262, Tufted Titmouse 33, Red-breasted Nuthatch 1, White-breasted Nuthatch 32, Brown Creeper 14, Golden-crowned

Kinglet 1, Eastern Bluebird 43, Hermit Thrush 1 (excellent details — Ed.), American Robin 949, Northern Mockingbird 6, Brown Thrasher 1, Cedar Waxwing 147, Loggerhead Shrike 12, European Starling 9306, Yellow-rumped (Myrtle) Warbler 2, Northern Cardinal 197, Rufous-sided Towhee 1, American Tree Sparrow 1018, Song Sparrow 18, Lincoln's Sparrow 1, Swamp Sparrow 1, White-throated Sparrow 6, White-crowned Sparrow 203, Harris' Sparrow 467, Dark-eyed (Slate-colored) Junco 263, Dark-eyed (Oregon) Junco 23, Dark-eyed (Gray-headed) Junco 1 (excellent details — Ed.), Lapland Longspur 3295, Smith's Longspur 57 (excellent details — Ed.), Red-winged Blackbird 6580, Eastern Meadowlark 51, Western Meadowlark 2, *Sturnella* sp. 91, Yellow-headed Blackbird 1 (excellent details — Ed.), Rusty Blackbird 37, Common Grackle 44, Brown-headed Cowbird 569, Pine Siskin 33, American Goldfinch 121, Evening Grosbeak 3, House Sparrow 858. Total 65 species (3 additional subspecies), about 29,099 individuals. Seen in area during count period, but not on count day — Wood Duck, Pileated Woodpecker.

Brian Bailey, Jay and Judy Barber, Mark Crane, Lloyd Fox, Mary Headrick, Michael Heffron, Brian and Marvin Kuehn, Gilbert and Marie Leisman, Bobbie and Jim Mayhew, Dorothy Milsap, John Parrish, James and Margaret Ptacek, Ed Schulenberg, Jean Schulenberg (compiler — Rt. 2, Box 36, Admire, KS 66830), Marvin Schwilling, Kathleen Tabor, Warren Vorhees, Dan Williamson.

Fostoria. 39° 30'N, 96° 30'W. Center 3 mi. N of Fostoria, KS. Habitat coverage: grassland 55%, oldfields and fencerows 25%, cultivated fields 14%, upland deciduous forest 5%, lakes and rivers 1%. December 28, 1985. 8:00 a.m. to 4:30 p.m. 20° to 44° F; wind SE, 20-30 m.p.h.; waters partly open. Four observers in 1 party. Total party-hours 8.5 (2 on foot, 6.5 by car). Total party-miles 40.5 (1.5 on foot, 39 by car).

Mallard 31, Northern Harrier 1, Cooper's Hawk 3, Red-tailed Hawk 14, Red-tailed (Harlan's) Hawk 2, Rough-legged Hawk 3, American Kestrel 2, Northern Bobwhite 11, Rock Dove 7, Mourning Dove 6, Red-bellied Woodpecker 8, Downy Woodpecker 2, Northern (Yellow-shafted) Flicker 16, Northern (Red-shafted) Flicker 1, Horned Lark 62, Blue Jay 73, American Crow 2500, Black-capped Chickadee 15, Tufted Titmouse 4, White-breasted Nuthatch 3, Eastern Bluebird 22, American Robin 1500, Cedar Waxwing 14, Loggerhead Shrike 1, European Starling 62, Northern Cardinal 5, Rufous-sided Towhee 5, American Tree Sparrow 170, Dark-eyed (Slate-colored) Junco 72, Red-winged Blackbird 130, Common Grackle 32, Pine Siskin 1, American Goldfinch 6, House Sparrow 300. Total 32 species (2 additional subspecies), about 5084 individuals. Seen in area during count period, but not on count day — Greater Prairie-chicken, Brown Creeper, Evening Grosbeak.

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

Garden City. 37° 55'N, 100° 47'W. Center 4 mi. SE junction of spur U.S. 83 and U.S. 50. Habitat coverage: sand-sage prairie 32%, cultivated fields 24%, residential areas 16%, cottonwood-Tamarix floodplain 10%, riparian woodland 6%, ponds 6%, oldfields and fencerows 4%, feedlots 2%. December 29, 1985. 5:00 a.m. to 5:00 p.m. 21° to 57° F; wind SW, 0-15 m.p.h.; water partly open; no snow cover. Fourteen observers in 5 parties and 6 observers at feeders. Total party-hours 31 (7 on foot, 24 by car) plus 3 hrs. owling and 8 hrs. at feeders. Total party-miles 290 (7 on foot, 283 by car) and 30 miles owling.

Canada Goose 85, Wood Duck 7, Green-winged Teal 330, Mallard 770, American Wigeon 2, Bald Eagle 15, Northern Harrier 13, Sharp-shinned Hawk 1, Red-tailed Hawk 32, Ferruginous Hawk 13, Rough-legged Hawk 29, American Kestrel 13, Prairie Falcon 2, Ring-necked Pheasant 25, Northern Bobwhite 85, Rock Dove 155, Mourning Dove 2, Eastern Screech-owl 2, Great Horned Owl 16, Belted Kingfisher 1, Downy Woodpecker 29, Hairy Woodpecker 1, Northern (Yellow-shafted) Flicker 1, Northern (Red-shafted) Flicker 7, Horned Lark 1253, Blue Jay 21, Black-billed Magpie 135, American Crow 336, Red-breasted Nuthatch 12, White-breasted Nuthatch 13, Brown

Creeper 4, Golden-crowned Kinglet 3, American Robin 6, Northern Mockingbird 1, Brown Thrasher 1, Curve-billed Thrasher 1, Cedar Waxwing 7, Loggerhead Shrike 2, European Starling 2801, Northern Cardinal 5, American Tree Sparrow 125, Vesper Sparrow 1 (good details — Ed.), Song Sparrow 5, White-crowned Sparrow 49, Harris' Sparrow 37, Dark-eyed (Slate-colored) Junco 76, Dark-eyed (Oregon) Junco 80, Red-winged Blackbird 72, Western Meadowlark 167, Brewer's Blackbird 1, Common Grackle 4, Brown-headed Cowbird 1, House Finch 258, Pine Siskin 68, American Goldfinch 40, House Sparrow 3507. Total 54 species (2 additional subspecies), about 10,728 individuals. Seen in area during count period, but not on count day — Red-tailed (Harlan's) Hawk, Wild Turkey, Lesser Prairie-chicken, Long-eared Owl.

Dan Baffa, Tim Baffa, Bill Coons, Carleen Herbert, Lawrence Herbert (compiler — 608 N. 11th, Garden City, KS 67846), Nel Jones, Marie Osterbuhr, Marge Philbrick, Betty Rich, Leonard Rich, David Rintoul, Doug Rudick, Dee Rupp, Elma Scheideman, Bob Scott, Emaline Scott, Kathy Sexon, Mark Sexon, Jeff Wells, Mark Wells.

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%, grassland 6%, residential areas 5%, lakes and rivers 3%, marsh 1%. December 21, 1985. 7:00 a.m. to 5:00 p.m., 18° to 46° F; wind S, 8-10 m.p.h.; water frozen; 0.5-1.5 inches snow cover; clear. Sixteen observers in 5 parties. Total party-hours 44 (24 on foot, 20 by car). Total party-miles 235.5 (24 on foot, 211.5 by car).

Great Blue Heron 1, Canada Goose 123, Green-winged Teal 2, Mallard 47, Turkey Vulture 1 (no details — Ed.), Bald Eagle 1, Northern Harrier 5, Red-tailed Hawk 52, Red-tailed (Harlan's) Hawk 2, Rough-legged Hawk 8, American Kestrel 23, Ring-necked Pheasant 28, Northern Bobwhite 40, Killdeer 1, Common Snipe 1, Rock Dove 76, Mourning Dove 23, Great Horned Owl 6, Belted Kingfisher 1, Red-headed Woodpecker 1, Red-bellied Woodpecker 43, Yellow-bellied Sapsucker 1, Downy Woodpecker 28, Hairy Woodpecker 6, Northern (Yellow-shafted) Flicker 15, Northern (Red-shafted) Flicker 3, Northern Flicker ssp. 22, Horned Lark 3047, Blue Jay 144, American Crow 798, Black-capped Chickadee 260, Tufted Titmouse 12, Red-breasted Nuthatch 23, White-breasted Nuthatch 21, Brown Creeper 15, Golden-crowned Kinglet 23, Ruby-crowned Kinglet 2, Eastern Bluebird 8, Townsend's Solitaire 1, American Robin 21, Northern Mockingbird 10, Brown Thrasher 1, Loggerhead Shrike 4, European Starling 1537, Northern Cardinal 74, Rufous-sided Towhee 7, American Tree Sparrow 661, Field Sparrow 4, Song Sparrow 6, White-throated Sparrow 1, White-crowned Sparrow 8, Harris' Sparrow 966, Dark-eyed (Slate-colored) Junco 316, Dark-eyed (Oregon) Junco 27, Lapland Longspur 50, Red-winged Blackbird 287, Eastern Meadowlark 6, Western Meadowlark 1, *Sturnella* sp. 540, Common Grackle 3, Purple Finch 3, American Goldfinch 24, House Sparrow 988. Total 58 species (3 additional subspecies), about 10,459 individuals.

Bud Akin, Steve Capel, Beverly DeGay, Barbara Duerksen, Paul Ediger, Paul Jantzen, Pete Janzen, Marilyn Johnson, Rob Lentini, Jay Newton (compiler — 8 Tenth St. Ct., Newton, KS 67114), Hans Penner, Dwight Platt, Bob Regier, John Torline, Nada Voth, Bob Waltner.

Hays. 38° 41'N, 99° 23'W. Center 3.5 mi. S and 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%. December 21, 1985. 8:00 a.m. to 5:00 p.m.; 24° to 55° F; wind N, 0-10 m.p.h.; partial snow cover, 0-0.5"; waters partly frozen. Eight observers in 4 parties and 3 observers at feeders. Total party-hours 20 (10 on foot, 10 by car) and 8 hrs. at feeders. Total party-miles 166 (8 on foot, 158 by car).

Bald Eagle 2, Northern Harrier 5, Sharp-shinned Hawk 1, Cooper's Hawk 1, Red-tailed Hawk 20, Ferruginous Hawk 8, *Buteo* sp. 1, American Kestrel 6, Prairie Falcon 3, Ring-necked Pheasant 17, Rock Dove 229, Mourning Dove 6, Eastern Screech-owl 2, Great Horned Owl 7, Belted Kingfisher 1, Red-bellied Woodpecker 2, Downy Wood-

pecker 18, Hairy Woodpecker 2, Northern (Yellow-shafted) Flicker 7, Northern (Red-shafted) Flicker 6, Northern Flicker ssp. 2, Horned Lark 1092, Blue Jay 8, Black-billed Magpie 8, American Crow 215, Black-capped Chickadee 73, Red-breasted Nuthatch 8, White-breasted Nuthatch 18, Brown Creeper 14, Golden-crowned Kinglet 3, Townsend's Solitaire 2, American Robin 115, Northern Mockingbird 1, Cedar Waxwing 19, Loggerhead Shrike 1, European Starling 1105, Northern Cardinal 7, American Tree Sparrow 210, Song Sparrow 17, White-throated Sparrow 1, White-crowned Sparrow 3, Harris' Sparrow 304, Dark-eyed (Slate-colored) Junco 5, Dark-eyed (Oregon) Junco 12, Dark-eyed (White-winged) Junco 1, Dark-eyed Junco ssp. 94, Lapland Longspur 180, Red-winged Blackbird 7, Western Meadowlark 125, Rusty Blackbird 3, House Finch 60, Pine Siskin 124, American Goldfinch 90, House Sparrow 589. Total 48 species (3 additional subspecies), about 4860 individuals.

Chris Cooper, Donna Cooper (compiler — 2906 Walnut, Hays, KS 67601), Mark Cooper, Charles Ely, Katherine Mermis, Marvin Rolfs, Tricia Schroeder, Diane Seltman, Scott Seltman, Annie Laurie Steele, Dennis Zehr.

Hillsdale Reservoir. 38° 37'N, 94° 52'W. Center 2.5 mi. W and 1 mi. N of old route U.S. 169 (thru Paola) and K68. Habitat coverage: riparian forest 45%, cultivated fields 20%, lakes and rivers 20%, oldfields and fencerows 5%, swamp 5%, grassland 2%, residential areas 1%, marsh 1%, coniferous stands 1%. January 4, 1986. 6:30 a.m. to 5:30 p.m. 25° to 36° F; wind N, 20-25 gusting to 25-40 m.p.h.; waters mostly frozen; trace snow cover; partly cloudy. Twenty-five observers in 7 parties. Total party-hours 34.5 (9.5 on foot, 25 by car) plus 1 hr. owling and 4 hrs. at feeders. Total party-miles 308.5 (11.5 on foot, 297 by car) and 5 miles owling.

Canada Goose 45, Mallard 675, Common Goldeneye 10, Bufflehead 5, Common Merganser 23, Bald Eagle 7, Northern Harrier 11, Sharp-shinned Hawk 1, Cooper's Hawk 1, Northern Goshawk 1 (excellent details — Ed.), Red-tailed Hawk 49, American Kestrel 17, Merlin 1 (excellent details — Ed.), Northern Bobwhite 7, Ring-billed Gull 117, Rock Dove 31, Great Horned Owl 5, Barred Owl 3, Belted Kingfisher 1, Red-headed Woodpecker 3, Red-bellied Woodpecker 22, Downy Woodpecker 25, Hairy Woodpecker 2, Northern Flicker ssp. 22, Horned Lark 365, Blue Jay 67, American Crow 264, Black-capped Chickadee 106, Tufted Titmouse 31, White-breasted Nuthatch 13, Golden-crowned Kinglet 2, Eastern Bluebird 50, American Robin 143, Northern Mockingbird 6, Cedar Waxwing 244, Loggerhead Shrike 2, European Starling 402, Northern Cardinal 170, American Tree Sparrow 191, Field Sparrow 4, Fox Sparrow 1, Song Sparrow 4, White-throated Sparrow 1, White-crowned Sparrow 29, Harris' Sparrow 10, Dark-eyed Junco ssp. 389, Red-winged Blackbird 27, Eastern Meadowlark 49, Common Grackle 3, Brown-headed Cowbird 1, Purple Finch 3, Pine Siskin 3, American Goldfinch 561, House Sparrow 565. Total 54 species, about 4790 individuals.

Margaret Boyd, Steve Crawford, Louise Cromwell, David and Mary Dunsmoor, Orville Flager, Joann Garrett, Harriet and John Gingerich, Dave Green, Marilyn Harrington, Joan Jefferson, Katherine Kelley, Doris Krout, Mike Laird, Leslie and Joyce Meek, Mike Mueller (compiler — Rt. 3, Box 205, Paola, KS 66071), Richard Parker, Gladys Posness, R. C. Rucker, Bessie Stevens, Gene and Dorothy Venable, Bunnie Watkins.

Junction City. 39° 00'N, 96° 53'W. Center I70 roadside park, SW Junction City, KS. Habitat coverage: grasslands 20%, riparian forest 15%, cultivated fields 15%, oldfields and fencerows 15%, lakes and rivers 10%, coniferous stands 10%, upland deciduous forest 5%, marsh 5%, residential areas 5%. December 29, 1985. 2:00 a.m. to 7:00 p.m. 20° to 50° F; wind S, 0-10 m.p.h.; waters partly frozen; no snow cover; clear. Twenty-four observers in 8 parties and 2 observers at feeders. Total party-hours 62 (36 on foot, 26 by car) plus 5 hrs. owling and 2 hrs. at feeders. Total party-miles 326 (36 on foot, 290 by car) and 35 miles owling.

Great Blue Heron 8, Canada Goose 188, Wood Duck 4, Mallard 2344, Gadwall 15, American Wigeon 2, Common Goldeneye 93, Bufflehead 11, Common Merganser 35,

Bald Eagle 16, Northern Harrier 9, Sharp-shinned Hawk 2, Cooper's Hawk 2, Red-tailed Hawk 59, Red-tailed (Harlan's) Hawk 1, Rough-legged Hawk 2, American Kestrel 9, Prairie Falcon 2, Ring-necked Pheasant 30, Greater Prairie-chicken 184, Wild Turkey 4, Northern Bobwhite 56, Ring-billed Gull 19, Herring Gull 4, Rock Dove 22, Mourning Dove 1, Eastern Screech-owl 11, Great Horned Owl 16, Barred Owl 6, Long-eared Owl 1, Northern Saw-whet Owl 1 (excellent details — Ed.), Belted Kingfisher 11, Red-headed Woodpecker 4, Red-bellied Woodpecker 43, Yellow-bellied Sapsucker 5, Downy Woodpecker 45, Hairy Woodpecker 6, Northern (Yellow-shafted) Flicker 55, Northern (Red-shafted) Flicker 7, Northern Flicker ssp. 11, Horned Lark 374, Blue Jay 145, American Crow 365, Black-capped Chickadee 223, Tufted Titmouse 19, Red-breasted Nuthatch 6, White-breasted Nuthatch 30, Pygmy Nuthatch 2 (excellent details — Ed.), Brown Creeper 24, Carolina Wren 1, Bewick's Wren 1, Winter Wren 1, Golden-crowned Kinglet 21, Eastern Bluebird 45, Mountain Bluebird 1 (good details — Ed.), American Robin 3401, Northern Mockingbird 3, Cedar Waxwing 155, Loggerhead Shrike 4, European Starling 1660, Yellow-rumped (Myrtle) Warbler 23, Northern Cardinal 188, Rufous-sided Towhee 4, American Tree Sparrow 1493, Field Sparrow 19, Song Sparrow 13, White-crowned Sparrow 8, Harris' Sparrow 343, Dark-eyed (Slate-colored) Junco 336, Dark-eyed (Oregon) Junco 26, Dark-eyed Junco ssp. 312, Lapland Longspur 1150, Red-winged Blackbird 613, Eastern Meadowlark 45, Western Meadowlark 44, *Sturnella* sp. 34, Rusty Blackbird 2, Brewer's Blackbird 119, Brown-headed Cowbird 395, Purple Finch 23, Pine Siskin 88, American Goldfinch 176, Evening Grosbeak 63, House Sparrow 625. Total 78 species (3 additional subspecies), about 15,967 individuals. Seen in area during count period, but not on count day — Rock Wren (good details — Ed.).

Patricia Alves, Cecil Best, Marion and Patricia Brown, Lorena Combs, Kevin Fay, Elmer Finck, Cindy and Gary Jeffrey, Dan, John and Robert LaShelle (compiler — 328 W. 7th St., Junction City, KS 66441), Mike LeValley, Jeanne and Jim Nixon, Neil Schanker, Cliff Schuette, Jean Schulenberg, Chris Smith, James and Lorna Thomason, Robert Waters, Ruth Welti, John Zimmerman.

Kingman Wildlife Area. 37° 38'N, 98° 16'W. Center Headquarters of Kingman Wildlife Area. Habitat coverage: as described in 1963. December 30, 1985. 7:30 a.m. to 5:30 p.m. 28° to 46° F; wind N, 5-10 m.p.h.; partly cloudy with haze to clear and back to partly cloudy; waters partly frozen. Seven observers in 2 parties. Total party-hours 14 (6 on foot, 8 by car). Total party-miles 163 (6 on foot, 157 by car).

Great Blue Heron 1, Canada Goose 310, Mallard 26, Northern Harrier 14, Red-tailed Hawk 22, Rough-legged Hawk 2, American Kestrel 17, Prairie Falcon 2, Ring-necked Pheasant 2, Ring-billed Gull 4, Rock Dove 2, Great Horned Owl 1, Barred Owl 1, Red-bellied Woodpecker 8, Downy Woodpecker 8, Hairy Woodpecker 2, Northern (Yellow-shafted) Flicker 11, Northern (Red-shafted) Flicker 1, Horned Lark 532, Blue Jay 1, American Crow 48, Black-capped Chickadee 60, White-breasted Nuthatch 1, Brown Creeper 1, Eastern Bluebird 2, American Robin 22, Northern Mockingbird 2, Cedar Waxwing 41, Northern Shrike 1 (no details — Ed.), European Starling 274, Northern Cardinal 25, Rufous-sided Towhee 3, American Tree Sparrow 935, Song Sparrow 19, White-throated Sparrow 2, Harris' Sparrow 344, Dark-eyed (Slate-colored) Junco 35, Dark-eyed (Oregon) Junco 6, Red-winged Blackbird 107,506, Eastern Meadowlark 134, Western Meadowlark 24, Common Grackle 2, Brown-headed Cowbird 22, American Goldfinch 3, House Sparrow 60. Total 43 species (2 additional subspecies), about 110,539 individuals. Seen in area during count period, but not on count day — Common Goldeneye, Common Merganser, Bald Eagle, Sharp-shinned Hawk, Belted Kingfisher.

Ken Brunson, Randy Clark, Eugene Krehbiel, Charles Shoemake, Byron Walker (compiler — Kingman Wildlife Area, Penalosa, KS 67121), June Walker, Bob Wood.

Lawrence. 39° 00'N, 95° 18'W. Center 1.5 mi. N and 2.7 mi. W of junction of U.S. 40 and U.S. 59 in Lawrence. Habitat coverage: oldfields and fencerows 21%, upland deciduous forest 20%, riparian forest 16%, residential areas 13%, cultivated fields 13%,

grassland 8%, lakes and rivers 5%, coniferous stands 2%, marsh 1%, swamp 1%. December 21, 1985. No times given. 15° to 41° F; wind S, 0-15 m.p.h.; water completely frozen; snow cover 1-3"; clear to partly cloudy. Thirty-two observers in 11 parties and 1 observer at feeders. Total party-hours 88 (42 on foot, 46 by car) plus 7.5 hrs. owling and 9.5 hrs. at feeders. Total party-miles 473 (42 on foot, 431 by car) and 64 miles owling.

Great Blue Heron 2, Mallard 2, Lesser Scaup 4, Common Goldeneye 10, Common Merganser 36, Bald Eagle 43, Northern Harrier 10, Sharp-shinned Hawk 4, Cooper's Hawk 2, Northern Goshawk 1 (excellent details — Ed.), *Accipiter* sp. 1, Red-tailed Hawk 131, Red-tailed (Harlan's) Hawk 2, Rough-legged Hawk 3, *Buteo* sp. 4, American Kestrel 30, Merlin 1 (excellent details — Ed.), Northern Bobwhite 31, Killdeer 1, Ring-billed Gull 2, Herring Gull 1, *Larus* sp. 3, Rock Dove 737, Mourning Dove 9, Eastern Screech-owl 8, Great Horned Owl 8, Barred Owl 4, Belted Kingfisher 2, Red-headed Woodpecker 30, Red-bellied Woodpecker 86, Yellow-bellied Sapsucker 2, Downy Woodpecker 113, Hairy Woodpecker 16, Northern (Yellow-shafted) Flicker 101, Northern (Red-shafted) Flicker 6, Northern Flicker ssp. 32, Horned Lark 372, Blue Jay 223, American Crow 362, Black-capped Chickadee 333, Tufted Titmouse 106, Red-breasted Nuthatch 4, White-breasted Nuthatch 40, Brown Creeper 12, Winter Wren 2, Golden-crowned Kinglet 8, Eastern Bluebird 98, American Robin 2200, Northern Mockingbird 12, Cedar Waxwing 59, Loggerhead Shrike 10, European Starling 4300, Northern Cardinal 343, Rufous-sided Towhee 1, American Tree Sparrow 652, Fox Sparrow 3, Song Sparrow 45, Lincoln's Sparrow 3, Swamp Sparrow 18, White-throated Sparrow 6, White-crowned Sparrow 62, Harris' Sparrow 97, Dark-eyed (Slate-colored) Junco 341, Dark-eyed (Oregon) Junco 6, Dark-eyed Junco ssp. 404, Lapland Longspur 29, Red-winged Blackbird 300, Eastern Meadowlark 11, *Sturnella* sp. 155, Rusty Blackbird 26, Common Grackle 7, Brown-headed Cowbird 3, Purple Finch 40, Pine Siskin 60, American Goldfinch 428, Evening Grosbeak 1, House Sparrow 2350. Total 68 species (3 additional subspecies), about 15,010 individuals. Seen in area during count period, but not on count day — Ring-necked Pheasant, Short-eared Owl, Hermit Thrush.

Mary Allen, Bob Antonio, Byron Berger, Brad Bergstrom, Bob Burdick, Roger Boyd, Cal Cink, Patrick Clark, Tim Doolittle, Carol Estes, Ruth Faulh, Henry Fitch, Bill and Shirley Griffith, Jan Hall, Bill Hays, David Herrin, Wayne Hoffman, Richard Johnston, Jennifer Jones, Galen Pittman (compiler — Nelson Environmental Study Area, Box 1420, RR 3, Lawrence, KS 66044), Gail Reber, Stan Roth, Bob and Richard Rucker, David Seibel, Ed and Cynthia Shaw, Pennie von Achen, Camilla Wagner, Ruth Wagner, Ron and Joyce Wolf (Jayhawk Audubon Society).

Linn County. 38° 17'N, 94° 45'W. Center 5.5 mi. NE of the SW corner of Unit G, Marais des Cygnes Wildlife Area. Habitat coverage; as described in 1985. December 28, 1985. 8:00 a.m. to 4:00 p.m., 20° to 40° F; wind SW, 0-30 m.p.h., in A.M., NW, 20 m.p.h. in P.M. Six observers in 4 parties and 6 observers at feeders. Total party-hours 26 (4 on foot, 22 by car) plus 1 hr. owling and 8 hrs. at feeders. Total party-miles 235 (5 on foot, 230 by car) and 5 miles owling.

Snow Goose (white morph) 800, Snow Goose (blue morph) 2, Canada Goose 4031, Mallard 2549, Gadwall 3, Common Goldeneye 211, Hooded Merganser 29, Common Merganser 92, Bald Eagle 9, Northern Harrier 16, Sharp-shinned Hawk 1, Red-tailed Hawk 84, Rough-legged Hawk 1, *Buteo* sp. 2, American Kestrel 24, Northern Bobwhite 22, Ring-billed Gull 47, Herring Gull 33, Rock Dove 42, Mourning Dove 12, Eastern Screech-owl 1, Great Horned Owl 5, Barred Owl 1, Belted Kingfisher 1, Red-headed Woodpecker 9, Red-bellied Woodpecker 32, Downy Woodpecker 17, Hairy Woodpecker 4, Northern (Yellow-shafted) Flicker 31, Pileated Woodpecker 5, Horned Lark 15, Blue Jay 97, American Crow 210, Black-capped Chickadee 65, Tufted Titmouse 33, White-breasted Nuthatch 13, Carolina Wren 1, Eastern Bluebird 17, American Robin 36, Northern Mockingbird 4, Cedar Waxwing 20, Loggerhead Shrike 6, European Starling 470, Northern Cardinal 120, American Tree Sparrow 134, Song Sparrow 5, White-crowned Sparrow 12, Harris' Sparrow 8, Dark-eyed (Slate-colored) Junco 204, Red-winged Blackbird 14,577, Eastern Meadowlark 154, Common Grackle 88, Brown-headed

Cowbird 29, Purple Finch 9, Pine Siskin 5, American Goldfinch 113, Evening Grosbeak 30, House Sparrow 306. Total 56 species, about 24,897 individuals.

Frank Bowen, Roger Boyd, Lewis Dale, Stella Dale, Terry Heiser, Derek Hunter, Ella Miller, Wallace Miller, Barbara Pressgrove (compiler — 1110 7th St., Baldwin City, KS 66006), Martin Pressgrove, Paul Watson, Frank Wood.

Manhattan. 39° 11'N, 96° 34'W. Center Anderson Hall, Kansas State University campus. Habitat coverage: riparian forest 21%, grassland 16%, cultivated fields 14%, old-fields and fencerows 13%, lakes and rivers 12%, upland deciduous forest 12%, coniferous stands 6%, residential areas 4%, marsh 2%. December 21, 1985. 7:00 a.m. to 5:30 p.m. 24° to 42° F; wind calm; waters partly open; 2-5" snow cover; partly cloudy in A.M., clear in P.M. Ninety-eight observers in 18 parties and 2 observers at feeders. Total party-hours 182 (129 on foot, 53 by car) and 6 hrs. at feeders. Total party-miles 672 (130 on foot, 542 by car).

Double-crested Cormorant 7, Great Blue Heron 33, Canada Goose 142, Green-winged Teal 26, Mallard 310, Northern Pintail 2, Gadwall 28, Common Goldeneye 41, Bufflehead 1, Common Merganser 953, Red-breasted Merganser 1 (good details — Ed.), Bald Eagle 68, Northern Harrier 20, Sharp-shinned Hawk 11, Cooper's Hawk 3, Red-tailed Hawk 141, Red-tailed (Harlan's) Hawk 14, Rough-legged Hawk 9, American Kestrel 50, Merlin 4, Prairie Falcon 2, *Falco* sp. 1, Ring-necked Pheasant 87, Greater Prairie-chicken 41, Northern Bobwhite 402, Killdeer 3, Common Snipe 8, Ring-billed Gull 15, Herring Gull 5, Glaucous Gull 1 (excellent details — Ed.), Rock Dove 430, Mourning Dove 37, Common Barn-owl 2, Eastern Screech-owl 4, Great Horned Owl 9, Barred Owl 4, Belted Kingfisher 23, Red-headed Woodpecker 124, Red-bellied Woodpecker 219, Yellow-bellied Sapsucker 12, Downy Woodpecker 137, Hairy Woodpecker 32, Northern (Yellow-shafted) Flicker 245, Northern (Red-shafted) Flicker 9, Northern Flicker ssp. 62, Horned Lark 63, Blue Jay 629, American Crow 2388, Black-capped Chickadee 1153, Tufted Titmouse 182, Red-breasted Nuthatch 10, White-breasted Nuthatch 137, Brown Creeper 32, Carolina Wren 1, Bewick's Wren 1, Winter Wren 3, Golden-crowned Kinglet 22, Eastern Bluebird 104, Townsend's Solitaire 2, American Robin 20,596, Gray Catbird 1 (excellent details — Ed.), Northern Mockingbird 2, Cedar Waxwing 244, Loggerhead Shrike 2, European Starling 8845, Yellow-rumped (Myrtle) Warbler 9, Northern Cardinal 641, Rufous-sided Towhee 8, American Tree Sparrow 3632, Field Sparrow 8, Fox Sparrow 3, Song Sparrow 92, Lincoln's Sparrow 3, Swamp Sparrow 1, White-throated Sparrow 12, White-crowned Sparrow 26, Harris' Sparrow 607, Dark-eyed (Slate-colored) Junco 1954, Dark-eyed (White-winged) Junco 2 (fair details — Ed.), Dark-eyed (Oregon) Junco 88, Red-winged Blackbird 16,117, Eastern Meadowlark 74, Western Meadowlark 512, *Sturnella* sp. 560, Rusty Blackbird 506, Brewer's Blackbird 1073, Common Grackle 43, Brown-headed Cowbird 64, Purple Finch 36, Pine Siskin 49, American Goldfinch 670, Evening Grosbeak 175, House Sparrow 1397. Total 86 species (4 additional subspecies), about 66,557 individuals. Seen in area during count period but not on count day — Northern Goshawk.

Dan Adams, Mike and Nancy Barnes, Cecil Best, Orville Bidwell, Phil Bollinger, Frank Bradley, Ginny Brazzle, John Briggs, Kenny Brooks, Jeff Brown, Melissa Brown, Sue Brown, Janet Carlson, Brenda and Byron Clark, Brock Dale, Jim Davis, Maxwell and Michael Donnelley, Leon Edmunds, Greg and Susan Farley, Kevin Fay, Clyde Ferguson, Elmer and Llavonne Fink, Esther Flemming, Jon and Nathan Folland, Donna Fox, Paula Frantz, Donna Gier, Todd Goodman, Bob Gorton, Jonathon Graves, Benjamin and Marion Grey, Don Halley, Steve Hansen, Joseph Hawes, Manuel Jayo, Lynn Jensen, Terry Jewitt, Duane and Gary Kerr, Chuck Kichler, Ron Klataske, Jim Koelliker, Angel Kwolek-Folland, Sam Lacey, Jim Lickey, L. Lippenburger, Charlotte Lorenzen, Dave Loring, Dan Martin, Bruce McEnrow, Laura McLellan, Marge Muenzenberger, Dan Mulhern, Doug and Pam Mullinex, Michael Oldfather, Carol Pacey, Ed and Sil Pembleton, Patricia Pierce, Tate Posey, Dianne Post, John Powell, Mike Rader, Gary Radke, Lee Railsback, David Redmon, Jim Reichman, Anne Rockhold, Amy, Cathy and David Rintoul, John Rintoul, Tom Ryan, Kazuhiko and Moko Sakai, Dave Sampson,

Neil Schanker, Cliff Schutte, Chris Sidorfsky, Clinton Skaggs, Andrea and Chris Smith, Guy Smith, Stan Smith, Dean Stramel, Mark Swegle, Joyce and Roger Vasconcells, Ruth Welti, Alyce Whalen, Jan and John Zimmerman (compiler — Div. Biol., Kansas St. Univ., Manhattan, KS 66506).

Meade County. 37° 15'N, 100° 20'W. Center 1.5 mi. S of Meade, KS on K23. Habitat coverage: riparian woodland 50%, lakes and rivers 20%, residential areas 15%, cultivated fields 10%, oldfields and fencerows 5%. January 4, 1986. 7:30 a.m. to 5:30 p.m. 25° to 40° F; wind S, 25 m.p.h.; waters mostly open; no snow cover; clear. Fifteen observers in 2 parties and 1 observer at feeder. Total party-hours 16 (14 on foot, 2 by car) and 8 hrs. at feeders. Total party-miles 134 (20 on foot, 114 by car).

Canada Goose 3000, Mallard 257, Northern Harrier 4, Sharp-shinned Hawk 2, Red-tailed Hawk 4, Rough-legged Hawk 6, *Buteo* sp. 2, American Kestrel 7, Prairie Falcon 2, Ring-necked Pheasant 15, Wild Turkey 60, Northern Bobwhite 10, Rock Dove 5, Mourning Dove 2, Common Barn-owl 1, Great Horned Owl 10, Long-eared Owl 1, Red-bellied Woodpecker 2, Downy Woodpecker 6, Hairy Woodpecker 1, Northern (Yellow-shafted) Flicker 8, Northern (Red-shafted) Flicker 23, Northern Flicker ssp. 5, Horned Lark 201, Black-billed Magpie 9, American Crow 27, Black-capped Chickadee 4, Red-breasted Nuthatch 1, White-breasted Nuthatch 2, Brown Creeper 2, Golden-crowned Kinglet 5, Eastern Bluebird 1, Mountain Bluebird 16, American Robin 38, Cedar Waxwing 5, Loggerhead Shrike 4, European Starling 68, Northern Cardinal 5, American Tree Sparrow 120, Song Sparrow 7, White-crowned Sparrow 39, Harris' Sparrow 127, Dark-eyed (Slate-colored) Junco 7, Dark-eyed (Oregon) Junco 11, Dark-eyed Junco ssp. 63, Chestnut-collared Longspur 1, Red-winged Blackbird 318, Western Meadowlark 121, Brown-headed Cowbird 1, House Finch 30, American Goldfinch 8, House Sparrow 27. Total 47 species (2 additional subspecies), about 4701 individuals. Seen in area during count period, but not on count day — Ferruginous Hawk, Yellow-bellied Sapsucker, Northern Mockingbird, Swamp Sparrow.

Cleo Brannon, Ellen Flowers, Jeremy Flowers, Justin Flowers, Ron Flowers, Tom Flowers (compiler — P. O. Box 87, Meade, KS 67864), Larry Howard, Rita Kenney, Christene Kobs, Jeff Kobs, Kathy Kobs, Linda Kobs, Ron Mellard, Cathye Vest, Jeremy Vest, Travis Vest.

Olathe. 38° 72'N, 94° 55'W. Center junction of 119th Street and K7 (note change in center from previous years). Habitat coverage: upland deciduous forest 25%, cultivated fields 20%, residential areas 15%, riparian forest 10%, lakes and rivers 10%, oldfields and fencerows 10%, grassland 5%, coniferous stands 5%. December 29, 1985. 5:30 a.m. to 4:30 p.m. 20° to 42° F; wind W, 5-15 m.p.h.; water mostly frozen; no snow cover but patches of ice; clear. Fourteen observers in 6 parties and 7 observers at feeders. Total party-hours 33.5 (11 on foot, 22.5 by car) plus 2.5 hrs. owling and 14 hrs. at feeders. Total party-miles 274 (12 on foot, 262 by car) and 25 miles owling.

Great Blue Heron 1, Snow Goose (white morph) 1, Canada Goose 42, Wood Duck 1, Mallard 250, Northern Pintail 2, Bald Eagle 2, Northern Harrier 4, Red-tailed Hawk 83, Red-tailed (Harlan's) Hawk 2, American Kestrel 23, Northern Bobwhite 1, Killdeer 1, Rock Dove 99, Mourning Dove 11, Eastern Screech-owl 2, Great Horned Owl 20, Belted Kingfisher 2, Red-headed Woodpecker 1, Red-bellied Woodpecker 32, Downy Woodpecker 48, Hairy Woodpecker 8, Northern (Yellow-shafted) Flicker 20, Northern (Red-shafted) Flicker 2, Horned Lark 3846, Blue Jay 172, American Crow 122, Black-capped Chickadee 231, Tufted Titmouse 37, Red-breasted Nuthatch 1, White-breasted Nuthatch 6, Brown Creeper 3, Eastern Bluebird 12, American Robin 10, Northern Mockingbird 5, Brown Thrasher 1 (excellent details — Ed.), Loggerhead Shrike 2, European Starling 1360, Northern Cardinal 229, American Tree Sparrow 215, Field Sparrow 19, Song Sparrow 14, White-crowned Sparrow 25, Harris' Sparrow 28, Dark-eyed (Slate-colored) Junco 419, Dark-eyed (Oregon) Junco 1, Lapland Longspur 2276, Smith's Longspur 2 (excellent details — Ed.), Red-winged Blackbird 319, Eastern

Meadowlark 77, *Sturnella* sp. 23, Brown-headed Cowbird 188, Purple Finch 28, Pine Siskin 20, American Goldfinch 169, Evening Grosbeak 8, House Sparrow 1487. Total 52 species (3 additional subspecies), about 12,013 individuals. Seen in area during count period, but not on count day — *Accipiter* sp., Cedar Waxwing.

Art Ayres, Roger Boyd, Debby Burke, Mark Corder, Steve Crawford (compiler — 21465 W. 180th St., Olathe, KS 66061), Betty Crownover, Marian Franklin, Harry and Sharron Gregory, Kay McDougal, Mick McHugh, Nadine Paulsen, Martin Pressgrove, Richard Parker, Tod Reeder, Fred Schmidt, Kevin Sink, Paul Watson, Marilyn Wayman, Eva Wilkins, Joli Winer.

Oskaloosa-Perry Lake. 39° 12'N, 95° 24'W. Center entrance to Camp Jayhawk BSA (NE corner of section 9, T10S, R18E). Habitat coverage: upland deciduous forest 23%, riparian forest 17%, oldfields and fencerows 17%, cultivated fields 16%, grasslands 12%, lakes and rivers 9%, residential areas 4%, coniferous stands 2%. December 28, 1985. 7:00 a.m. to 6:00 p.m. 17° to 47° F; wind S to SW, 10-40 m.p.h.; streams open, Lake Perry with 95% ice cover; residual snow cover; clear to high scattered. Twenty-four observers in 9 parties. Total party-hours 69.5 (26 on foot, 43.5 by car) plus 1 hr. owling. Total party-miles 448 (23 on foot, 425 by car) and 7.5 miles owling.

Canada Goose 320, Mallard 3000, Gadwall 1, Canvasback 4, Common Goldeneye 2, Common Merganser 48, Bald Eagle 17, Northern Harrier 11, Sharp-shinned Hawk 4, Cooper's Hawk 1, Northern Goshawk 1 (excellent details — Ed.), Red-tailed Hawk 102, Red-tailed (Harlan's) Hawk 4, Red-tailed (Krider's) Hawk 1, Rough-legged Hawk 6, American Kestrel 17, Prairie Falcon 1, *Falco* sp. 1, Northern Bobwhite 44, Ring-billed Gull 10, Herring Gull 17, *Larus* sp. 9, Rock Dove 52, Mourning Dove 1, Eastern Screech-owl 2, Great Horned Owl 3, Belted Kingfisher 3, Red-headed Woodpecker 76, Red-bellied Woodpecker 64, Downy Woodpecker 72, Hairy Woodpecker 18, Northern (Yellow-shafted) Flicker 56, Northern (Red-shafted) Flicker 2, Northern Flicker ssp. 5, Horned Lark 275, Blue Jay 282, American Crow 246, Black-capped Chickadee 321, Tufted Titmouse 44, Red-breasted Nuthatch 2, White-breasted Nuthatch 38, Brown Creeper 3, Eastern Bluebird 82, American Robin 725, Northern Mockingbird 4, Brown Thrasher 1, Cedar Waxwing 160, Loggerhead Shrike 8, European Starling 1400, Northern Cardinal 257, American Tree Sparrow 450, Fox Sparrow 1, Song Sparrow 11, White-throated Sparrow 3, White-crowned Sparrow 3, Harris' Sparrow 66, Dark-eyed (Slate-colored) Junco 350, Dark-eyed (Oregon) Junco 7, Dark-eyed Junco ssp. 150, Red-winged Blackbird 220, Eastern Meadowlark 22, Western Meadowlark 4, *Sturnella* sp. 39, Common Grackle 2, Brown-headed Cowbird 1, Purple Finch 2, Pine Siskin 29, American Goldfinch 121, Evening Grosbeak 40, House Sparrow 1000. Total 61 species (4 additional subspecies), about 10,344 individuals. Seen in area during count period, but not on count day — Ring-necked Pheasant, Wild Turkey, Rufous-sided Towhee.

Mary Allen, Mike and Sandra Bowman, Joanne Brier, Bob Burdick, Arlene and Robert Delker, Ruth Fauhl, Wayne Hoffman, E. M. and E. R. Lewis, Sarah Merrill, Mike and Patty Mueller, Galen Pittman, Ellen and Mike Rader, Bob and Richard Rucker (compiler — 121 East 17th Street, Lawrence, KS 66044-4233), Betty and Ed Scullywest, Chris Smith, Roseanne Smith, Ron Wolf.

Parsons. 37° 30'N, 95° 15'W. Center 0.5 mi. E of U.S. 59, 5.5 mi. N of Neosho-Labette County line. Habitat coverage: oldfields and fencerows 40%, cultivated fields 23%, swamp 14%, riparian forest 9%, lakes 9%, grassland 5%. December 21, 1985. No times given. 23° to 38° F; wind N, 10 m.p.h.; waters mostly frozen; a little snow cover; cloudy A.M., clear P.M. Ten observers in 5 parties and 2 observers at feeders. Total party-hours 223.5 (5 on foot, 18.5 by car) and 1 hr. at feeders. Total party-miles 159 (6 on foot, 153 by car).

Pied-billed Grebe 2, Great Blue Heron 2, Mallard 30, Bald Eagle 2, Northern Harrier 11, Red-tailed Hawk 64, *Buteo* sp. 4, American Kestrel 5, Northern Bobwhite 24, Rock Dove 14, Mourning Dove 1, Great Horned Owl 1, Belted Kingfisher 1, Red-headed Woodpecker 7, Red-bellied Woodpecker 16, Yellow-bellied Sapsucker 2, Downy Wood-

pecker 11, Hairy Woodpecker 4, Northern (Yellow-shafted) Flicker 17, Northern (Red-shafted) Flicker 2, Pileated Woodpecker 1, Horned Lark 280, Blue Jay 64, American Crow 95, Black-capped Chickadee 6, Carolina Chickadee 22, Tufted Titmouse 21, Red-breasted Nuthatch 1, White-breasted Nuthatch 7, Brown Creeper 2, Eastern Bluebird 23, American Robin 125, Northern Mockingbird 11, Brown Thrasher 2, Cedar Waxwing 5, Loggerhead Shrike 12, European Starling 1240, Northern Cardinal 90, American Tree Sparrow 29, Fox Sparrow 5, Song Sparrow 12, White-throated Sparrow 3, White-crowned Sparrow 57, Harris' Sparrow 73, Dark-eyed (Slate-colored) Junco 135, Red-winged Blackbird 302, Eastern Meadowlark 443, Brewer's Blackbird 30, Purple Finch 8, Pine Siskin 5, American Goldfinch 3360, House Sparrow 447. Total 50 species (1 additional subspecies), about 7136 individuals. Seen in area during count period, but not on count day — Osprey (5 Jan. 86).

Southeast Kansas Audubon (compiler — R. W. McCandless, Box 753, Parsons, KS 67357).

Pomona Lake. 38° 41'N, 95° 41'W. Center intersection U.S. 75 and Dragoon Creek. Habitat coverage: oldfields and fencerows 23%, riparian forest 22%, grassland 14%, cultivated fields 15%, lakes and rivers 15%, residential areas 4%, coniferous stands 3%, upland deciduous forest 3%, marsh 1%. December 29, 1985. 7:00 a.m. to 5:30 p.m. 20° to 45° F; wind S, 6 m.p.h.; lake 97% ice-covered, ponds frozen; trace of snow cover; clear. Fifteen observers in 7 parties. Total party-hours 44.5 (12.5 on foot, 32 by car) plus 0.75 hrs. owling. Total party-miles 281.5 (16.5 on foot, 265 by car) and 10 miles owling.

Great Blue Heron 2, Snow Goose (white morph) 254, Snow Goose (blue morph) 125, Canada Goose 436, Mallard 4100, Common Merganser 13, Bald Eagle 3, Northern Harrier 22, Sharp-shinned Hawk 1, Red-tailed Hawk 57, Rough-legged Hawk 4, American Kestrel 24, Prairie Falcon 2, Greater Prairie-chicken 44, Northern Bobwhite 33, Rock Dove 9, Mourning Dove 21, Great Horned Owl 19, Barred Owl 2, Belted Kingfisher 3, Red-headed Woodpecker 14, Red-bellied Woodpecker 28, Yellow-bellied Sapsucker 3, Downy Woodpecker 41, Hairy Woodpecker 7, Northern (Yellow-shafted) Flicker 21, Northern (Red-shafted) Flicker 4, Northern Flicker ssp. 17, Horned Lark 271, Blue Jay 150, American Crow 107, Black-capped Chickadee 309, Tufted Titmouse 18, White-breasted Nuthatch 19, Brown Creeper 5, Golden-crowned Kinglet 4, Eastern Bluebird 51, Townsend's Solitaire 1, American Robin 1338, Northern Mockingbird 9, Cedar Waxwing 212, Loggerhead Shrike 11, European Starling 6693, Northern Cardinal 192, Rufous-sided Towhee 1, American Tree Sparrow 1613, Field Sparrow 4, Fox Sparrow 1, Song Sparrow 7, Lincoln's Sparrow 1, Swamp Sparrow 2, White-throated Sparrow 11, White-crowned Sparrow 46, Harris' Sparrow 143, Dark-eyed (Slate-colored) Junco 615, Dark-eyed (Oregon) Junco 3, Red-winged Blackbird 4032, Eastern Meadowlark 84, Western Meadowlark 1, *Sturnella* sp. 52, Rusty Blackbird 2, Brewer's Blackbird 198, Common Grackle 3, Brown-headed Cowbird 43, Purple Finch 15, Pine Siskin 6, American Goldfinch 187, House Sparrow 757. Total 63 species (2 additional subspecies), about 22,517 individuals.

Bob and Carol Culbertson, Dick Dixon, David and Mary Dunsmoor, Dan Larson, E. M. and E. R. Lewis, Sarah Merrill, Patricia Mueller, Evelyn and Ken Redman, Bunnie (compiler — 3212 W. 24th St. Terrace, Lawrence, KS 66046) and Mike Watkins, Dan Williamson.

Quivira National Wildlife Refuge. 38° 09'N, 98° 29'W. Center old refuge subhead-quarters, SE corner Sec. 11, T22S, R11W, Stafford Co. Habitat coverage: grassland 45%. oldfields and fencerows 20%, cultivated fields 20%, marsh 15%. December 19, 1985. 7:45 a.m. to 4:45 p.m. 27° to 43° F; wind N, 20-35 m.p.h.; partly cloudy; waters mostly frozen. Seven observers in 3 parties and 1 observer at feeders. Total party-hours 24 (4 on foot, 20 by car) and 8 hrs. at feeders. Total party-miles 200.5 (3.5 on foot, 197 by car).

Greater White-fronted Goose 38, Snow Goose (white morph) 4, Canada Goose 5345, Green-winged Teal 1, Mallard 12,284, Common Goldeneye 4, Bald Eagle 7, Northern Harrier 20, Cooper's Hawk 2, Red-tailed Hawk 30, Rough-legged Hawk 4, Golden Eagle 1, American Kestrel 15, Prairie Falcon 1, Ring-necked Pheasant 2, Wild Turkey 5, Northern Bobwhite 10, Rock Dove 10, Mourning Dove 1, Eastern Screech-owl 1, Great Horned Owl 5, Red-bellied Woodpecker 4, Downy Woodpecker 6, Hairy Woodpecker 1, Northern (Yellow-shafted) Flicker 3, Northern (Red-shafted) Flicker 2, Northern Flicker ssp. 17, Horned Lark 58, Blue Jay 21, Black-billed Magpie 2, American Crow 249, Black-capped Chickadee 22, Brown Creeper 1, Eastern Bluebird 1, American Robin 2, Northern Shrike 1 (excellent details — Ed.), Loggerhead Shrike 2, European Starling 127, Northern Cardinal 6, American Tree Sparrow 682, Song Sparrow 3, White-crowned Sparrow 2, Dark-eyed Junco ssp. 42, Lapland Longspur 52, Red-winged Blackbird 432, *Sturnella* sp. 44, Common Grackle 1, American Goldfinch 80, House Sparrow 25. Total 47 species (1 additional subspecies), about 19,678 individuals. Seen in area during count period, but not on count day — Ring-billed Gull, Rufous-sided Towhee.

Karen Cartlidge, Wallace Champeny, Lorena Combs, James McCollum, Scott Seltman, Gary Sullivan (compiler — RR 3, Box 48A, Stafford, KS 67578), Judy Tanner.

Reno County-Yoder. 37° 75'N, 97° 61'W. Center 3 mi. S Yoder, KS, intersection of Haven and Yoder Rds. Habitat coverage: cultivated fields 55%, lakes and rivers 15%, grassland 15%, upland deciduous woodland 10%, riparian woodland 5%. December 28, 1985. 8:00 a.m. to 5:00 p.m. 23° to 53° F; wind S, 5-20 m.p.h.; waters partly frozen; no snow cover; clear. Eighteen observers in 9 parties and 1 at feeders. Total party-hours 51.5 (18.5 on foot, 33 by car) and 2 hrs. at feeders. Total party-miles 347.5 (41.5 on foot, 306 by car).

Snow Goose (white morph) 1, Canada Goose 5441, Mallard 1564, Northern Pintail 5, Bufflehead 5, Bald Eagle 5, Northern Harrier 26, Red-tailed Hawk 56, Ferruginous Hawk 7, Rough-legged Hawk 8, *Buteo* sp. 15, American Kestrel 20, Merlin 1, Prairie Falcon 2, Ring-necked Pheasant 13, Northern Bobwhite 25, Ring-billed Gull 1, Rock Dove 119, Mourning Dove 2, Great Horned Owl 9, Belted Kingfisher 6, Red-bellied Woodpecker 13, Downy Woodpecker 14, Hairy Woodpecker 7, Northern Flicker ssp. 36, Horned Lark 1575, Blue Jay 86, American Crow 518, Black-capped Chickadee 133, White-breasted Nuthatch 2, Brown Creeper 1, Golden-crowned Kinglet 1, American Robin 30, Loggerhead Shrike 2, European Starling 1628, Yellow-rumped (Myrtle) Warbler 1, Northern Cardinal 45, Rufous-sided Towhee 3, American Tree Sparrow 1091, Field Sparrow 8, Song Sparrow 19, Harris' Sparrow 760, Dark-eyed Junco ssp. 278, Lapland Longspur 155, *Calcarius* sp. 7, Red-winged Blackbird 11,406, Eastern Meadowlark 549, Western Meadowlark 274, Common Grackle 7, Brown-headed Cowbird 188, Pine Siskin 33, American Goldfinch 197, House Sparrow 1184. Total 51 species, about 27,582 individuals. Seen in area during count period, but not on count day — Sharp-shinned Hawk, Golden Eagle, Short-eared Owl, Brewer's Blackbird.

Mary (compiler — 4207 East 56th St., Hutchinson, KS 67502) and Randy Clark, Lorena Combs, Louise Davis, Rich Duerksen, Dan and Marilla Dyck, Edward and Jennifer Dyck, Wayne Hochstetler, Dal Hunt, Kerrie Kirkpatrick, Anne and John Miller, Mark and Kathie Rogers, Jim Smith, Gayle Unruh.

Salina. 38° 97'N, 97° 38'W. Center 1 mi. W of 9th Street on State Street Rd., Salina, KS. Habitat coverage: cultivated fields 45%, residential areas 24%, riparian woodland 15%, grasslands 10%, oldfields and fencerows 4%, coniferous stands 2%. December 29, 1985. 7:45 a.m. to 5:30 p.m. 18° to 50° F; wind SW, 0-14 m.p.h.; water mostly frozen; no snow cover; clear. Twenty-one observers in 3 parties. Total party-hours 26 (11 on foot, 15 by car). Total party-miles 222 (13 on foot, 209 by car).

Canada Goose 78, Northern Harrier 2, Cooper's Hawk 1, Red-tailed Hawk 67, Red-tailed (Harlan's) Hawk 1, Rough-legged Hawk 1, *Buteo* sp. 16, American Kestrel 20,

Prairie Falcon 1, Ring-necked Pheasant 35, Northern Bobwhite 25, Rock Dove 230, Great Horned Owl 4, Barred Owl 1, Belted Kingfisher 1, Red-bellied Woodpecker 22, Yellow-bellied Sapsucker 1, Downy Woodpecker 7, Hairy Woodpecker 5, Northern (Yellow-shafted) Flicker 9, Northern (Red-shafted) Flicker 3, Northern Flicker ssp. 8, Horned Lark 873, Blue Jay 15, American Crow 194, Black-capped Chickadee 128, Tufted Titmouse 5, Red-breasted Nuthatch 3, White-breasted Nuthatch 10, Brown Creeper 10, Golden-crowned Kinglet 12, American Robin 112, Northern Mockingbird 1, Loggerhead Shrike 1, European Starling 2548, Yellow-rumped (Myrtle) Warbler 4, Northern Cardinal 94, Rufous-sided Towhee 1, American Tree Sparrow 239, Song Sparrow 1, White-throated Sparrow 2, Harris' Sparrow 122, Dark-eyed Junco ssp. 166, Lapland Longspur 16, Red-winged Blackbird 506, *Sturnella* sp. 275, Rusty Blackbird 12, Brewer's Blackbird 40, Common Grackle 1, Pine Siskin 6, American Goldfinch 56, House Sparrow 1197. Total 48 species (2 additional subspecies), about 7188 individuals. Seen in area during count period, but not on count day — Greater Prairie-chicken, Ring-billed Gull, Pygmy Nuthatch (excellent details — Ed.).

Cary Brinegar, Stephen Burr, David and Nancy Clark, Anne, Dick and Richard Courter, Shannon Drews-Rayl, Barry and Marlea Gruver, David, Kevin and Lisa Haight, Roy Hough (compiler — 1902 Lewis, Salina, KS 67401), Linda Huberstrandberg, Craig Kern, Gregg Lagerberg, Charlie and Ivy Marsh, James Nichols, Dwight Strandberg (Smoky Hills Audubon Society and guests).

Sawyer. 37° 32'N, 98° 41'W. Center 2 mi. N of Sawyer, KS. Habitat coverage: riparian woodland 50%, cultivated fields 30%, grassland 10%, lakes and rivers 5%, oldfields and fencerows 5%. December 21, 1985. 8:00 a.m. to 5:00 p.m. 18° to 43° F; wind calm; rivers open but lakes mostly frozen; no snow cover; clear. Ten observers in 4 parties. Total party-hours 27 (18 on foot, 9 by car). Total party-miles 115 (8 on foot, 107 by car).

Great Blue Heron 15, Canada Goose 1500, Green-winged Teal 2, Mallard 1548, Gadwall 2, American Wigeon 1, Northern Harrier 15, Sharp-shinned Hawk 1, Cooper's Hawk 2, Red-tailed Hawk 49, Rough-legged Hawk 5, *Buteo* sp. 1, Golden Eagle 1, American Kestrel 11, Prairie Falcon 1, Ring-necked Pheasant 20, Wild Turkey 70, Northern Bobwhite 37, Killdeer 1, Rock Dove 89, Great Horned Owl 2, Barred Owl 1, Belted Kingfisher 4, Red-bellied Woodpecker 38, Downy Woodpecker 41, Hairy Woodpecker 20, Northern (Yellow-shafted) Flicker 8, Northern (Red-shafted) Flicker 7, Northern Flicker ssp. 31, Horned Lark 7324, Blue Jay 2, American Crow 221, Black-capped Chickadee 181, Tufted Titmouse 24, Red-breasted Nuthatch 1, White-breasted Nuthatch 21, Brown Creeper 7, Golden-crowned Kinglet 11, Ruby-crowned Kinglet 1, Eastern Bluebird 25, American Robin 12, Cedar Waxwing 17, Loggerhead Shrike 1, European Starling 1630, Yellow-rumped (Myrtle) Warbler 1, Northern Cardinal 20, American Tree Sparrow 510, Fox Sparrow 1, Song Sparrow 35, White-crowned Sparrow 3, Harris' Sparrow 268, Dark-eyed Junco ssp. 90, Lapland Longspur 2, Red-winged Blackbird 4042, Western Meadowlark 427, Brewer's Blackbird 75, Pine Siskin 2, American Goldfinch 13, House Sparrow 214. Total 56 species (1 additional subspecies), about 18,654 individuals.

Ken Brunson (compiler — 1001 Champa, Pratt, KS 67124), Bill Hlavachick, Bob Mathews, Kent Monte, Jane Queal, Lee Queal, Byron Walker, June Walker, Bob Wood, Joe York.

Scott Lake. 38° 45'N, 100° 53'W. Center 2 mi. N of the Scott-Logan County line on U.S. 83. Habitat coverage: riparian woodland 45%, cultivated fields 25%, grassland 8%, lakes and rivers 8%, marsh 8%, coniferous stands 4%, feedlot 2%. December 26, 1985. 7:30 a.m. to 3:30 p.m. 37° to 48° F; wind N, 0-35 m.p.h.; waters partly frozen; snow cover 80%; clear. Six observers in 2 parties. Total party-hours 11 (2 on foot, 9 by car). Total party-miles 112 (2 on foot, 110 by car).

Mallard 17, Bald Eagle 1, Northern Harrier 7, Northern Goshawk 1 (excellent details — Ed.), Red-tailed Hawk 2, Rough-legged Hawk 4, American Kestrel 8, Prairie Falcon

1, Ring-necked Pheasant 6, Virginia Rail 1 (excellent details — Ed.), Rock Dove 1, Eastern Screech-owl 1, Great Horned Owl 3, Belted Kingfisher 1, Downy Woodpecker 10, Hairy Woodpecker 2, Northern (Red-shafted) Flicker 4, Horned Lark 1142, Blue Jay 1, Black-billed Magpie 22, Black-capped Chickadee 30, White-breasted Nuthatch 5, Brown Creeper 2, Marsh Wren 4, Golden-crowned Kinglet 4, Townsend's Solitaire 3, Northern Shrike 1 (good details — Ed.), European Starling 36, Northern Cardinal 4, Rufous-sided Towhee 2, American Tree Sparrow 21, Song Sparrow 7, Harris' Sparrow 31, Dark-eyed (Slate-colored) Junco 5, Dark-eyed (Oregon) Junco 1, Dark-eyed (White-winged) Junco 6 (excellent details — Ed.), Lapland Longspur 205, Snow Bunting 2 (excellent details — Ed.), Red-winged Blackbird 300, Pine Siskin 4, American Goldfinch 14, House Sparrow 100. Total 40 species (2 additional subspecies), about 2022 individuals.

Dave Bryan, Sara Norman, Lee Seltman, Scott Seltman, Christopher Shane, Tom Shane (compiler — 2136 Wesley, Salina, KS 67401).

Stafford County. 38° 00'N, 98° 45'W. Center at stop sign 7 mi. W St. John city limits on First St. Habitat coverage: cultivated fields 40%, oldfields and fencerows 30%, residential areas 20%, grassland 10%. January 4, 1986. 7:30 a.m. to 5:30 p.m. 25° to 40° F; wind N, 20-40 m.p.h.; waters open. Twelve observers in 3 parties and 3 observers at feeders. Total party-hours 14 (2 on foot, 12 by car) and 1 hr. owling and 1 hr. at feeders. Total party-miles 254 (4 on foot, 250 by car) and 30 miles owling.

Canada Goose 620, Bald Eagle 1, Red-tailed Hawk 20, Red-tailed (Harlan's) Hawk 4, Ferruginous Hawk 1, Rough-legged Hawk 7, American Kestrel 17, Prairie Falcon 1, Ring-necked Pheasant 2, Rock Dove 36, Great Horned Owl 5, Red-bellied Woodpecker 2, Downy Woodpecker 4, Hairy Woodpecker 3, Northern Flicker ssp. 2, Horned Lark 703, Blue Jay 12, Black-billed Magpie 5, Black-capped Chickadee 95, White-breasted Nuthatch 3, American Robin 1, European Starling 536, Northern Cardinal 8, American Tree Sparrow 203, Harris' Sparrow 127, Dark-eyed Junco ssp. 28, Red-winged Blackbird 192, *Sturnella* sp. 130, Brewer's Blackbird 52, Brown-headed Cowbird 20, Pine Siskin 9, American Goldfinch 4, House Sparrow 60. Total 32 species, about 2913 individuals. Seen in area during count period, but not on count day — Wild Turkey, Loggerhead Shrike.

Justin Bookstore, Amy Borcharding, Lorena Combs, Jeff Delp, Vance Fisher, Lara Hamm, Amy Keller, Linda Perkins, Ryan and Virginia Russell, Jacob, John, Judy (compiler — Rt. 1, Box 85, St. John, KS 67576), and Molly Tanner.

Topeka. 39° 02'N, 95° 40'W. Center State Capitol. Habitat coverage: riparian forest 34%, cultivated fields 20%, lakes and rivers 20%, residential areas 15%, grasslands 9%, oldfields and fencerows 2%. December 21, 1985. 7:00 a.m. to 5:30 p.m. 20° to 40° F; wind SW, 7 m.p.h.; waters mostly frozen; snow cover 0-2"; clear. Thirty observers in 10 parties and 7 observers at feeders. Total party-hours 88 (37 on foot, 51 by car) plus 14 hrs. at feeders. Total party-miles 301 (31 on foot, 270 by car).

Great Blue Heron 1, Canada Goose 11, Mallard 116, Common Goldeneye 16, Bald Eagle 1, Northern Harrier 2, Sharp-shinned Hawk 1, Red-tailed Hawk 69, Red-tailed (Harlan's) Hawk 1, American Kestrel 23, Merlin 2, Ring-necked Pheasant 8, Northern Bobwhite 44, Common Snipe 1, Ring-billed Gull 2, Rock Dove 210, Mourning Dove 40, Great Horned Owl 3, Barred Owl 1, Belted Kingfisher 7, Red-headed Woodpecker 27, Red-bellied Woodpecker 60, Yellow-bellied Sapsucker 3, Downy Woodpecker 66, Hairy Woodpecker 15, Northern (Yellow-shafted) Flicker 48, Northern (Red-shafted) Flicker 1, Northern Flicker ssp. 2, Horned Lark 149, Blue Jay 212, American Crow 94, Black-capped Chickadee 391, Tufted Titmouse 58, Red-breasted Nuthatch 4, White-breasted Nuthatch 37, Brown Creeper 5, Golden-crowned Kinglet 3, Eastern Bluebird 37, Townsend's Solitaire 1, American Robin 514, Northern Mockingbird 3, Brown Thrasher 1, Cedar Waxwing 377, Loggerhead Shrike 6, European Starling 4580, Northern Cardinal 324, Rufous-sided Towhee 3, American Tree Sparrow 475, Song Sparrow

51, White-throated Sparrow 13, White-crowned Sparrow 20, Harris' Sparrow 252, Dark-eyed (Slate-colored) Junco 496, Dark-eyed (Oregon) Junco 35, Dark-eyed Junco ssp. 260, Lapland Longspur 1020, Red-winged Blackbird 175, Eastern Meadowlark 1, Western Meadowlark 1, *Sturnella* sp. 291, Brewer's Blackbird 1, Common Grackle 253, Brown-headed Cowbird 1, Purple Finch 14, Pine Siskin 7, American Goldfinch 205, House Sparrow 890. Total 61 species (3 additional subspecies), about 12,041 individuals.

Mary and Virgil Basgall, Alice Box, Joanne Brier, Scott Campbell, Leslie and Steve Carr, Arline and Robert Delker (compiler — 2520 S. E. Michigan, Topeka, KS 66605), Ed Dennis, Richard Dixon, Kirk Downing, Augusta Flentje, Marvin Flohrschutz, Dan Gish, Dean Grisell, Gwen Haegert, Phyllis Henney, Doris Horton, Betty Keith, Dan Larson, E. M. and E. R. Lewis, Stephen Lyrene, Sarah Merrill, Linda and Robert Papp, John Pierpont, Joanne Ramberg, Debi Ramlow, Leah Roberts, Imogene Semler, May Stanard, Donna Vausbinder, Marie Wadleigh, Paul Willis, Wanda Wilson.

Udall-Winfield. 37° 16'N, 96° 59'W. Center water tower at Winfield State Training School. Habitat coverage: as described in 1972. December 22, 1985. 8:00 a.m. to 5:00 p.m. 31° to 54° F; wind S, 0-8 m.p.h. Eleven observers in 6 parties. Total party-hours 51 (28 on foot, 23 by car). Total party-miles 270 (27 on foot, 243 by car).

Great Blue Heron 1, Canada Goose 975, Wood Duck 2, Mallard 1500, Northern Pintail 2, Gadwall 4, Common Goldeneye 15, Common Merganser 8, Bald Eagle 4, Northern Harrier 44, Sharp-shinned Hawk 1, Red-tailed Hawk 136, Red-tailed (Harlan's) Hawk 2, Rough-legged Hawk 2, *Buteo* sp. 1, American Kestrel 25, Ring-necked Pheasant 3, Greater Prairie-chicken 13, Wild Turkey 31, Northern Bobwhite 164, Killdeer 1, Ring-billed Gull 33, Herring Gull 4, Rock Dove 179, Mourning Dove 3, Eastern Screech-owl 3, Great Horned Owl 7, Barred Owl 1, Belted Kingfisher 2, Red-headed Woodpecker 3, Red-bellied Woodpecker 46, Yellow-bellied Sapsucker 4, Downy Woodpecker 33, Hairy Woodpecker 5, Northern (Yellow-shafted) Flicker 51, Northern (Red-shafted) Flicker 1, Horned Lark 2850, Blue Jay 71, American Crow 185, Black-capped Chickadee 92, Carolina Chickadee 77, Tufted Titmouse 29, Red-breasted Nuthatch 1, White-breasted Nuthatch 35, Brown Creeper 3, Winter Wren 2, Golden-crowned Kinglet 4, Eastern Bluebird 14, American Robin 4, Northern Mockingbird 3, Brown Thrasher 1, Loggerhead Shrike 7, European Starling 875, Northern Cardinal 115, Rufous-sided Towhee 5, American Tree Sparrow 346, Song Sparrow 16, White-throated Sparrow 2, White-crowned Sparrow 4, Harris' Sparrow 974, Dark-eyed (Slate-colored) Junco 307, Lapland Longspur 1625, Red-winged Blackbird 3291, *Sturnella* sp. 570, Rusty Blackbird 118, Brewer's Blackbird 27, Common Grackle 56, Brown-headed Cowbird 300, Pine Siskin 12, American Goldfinch 130, House Sparrow 500. Total 68 species, about 15,960 individuals. Seen in area during count period, but not on count day — Evening Grosbeak.

Betty and Duane Anderson, Wallace Champeny (compiler — RR 1, Oxford, KS 67119), Janet Laws, Mike Lesan, Gerald Wiens, Agnes, Larry and Ross Williams, Donna and Lee Wilt.

Wichita. 37° 41'N, 97° 20'W. Center confluence of Arkansas and Little Arkansas Rivers. Habitat coverage: as described in 1984. December 21, 1985. 8:00 a.m. to 5:00 p.m. 21° to 46° F; wind SW, 0-10 m.p.h. Eleven observers in 7 parties and 1 observer at feeders. Total party-hours 56 (26 on foot, 30 by car) and 8 hrs. at feeders. Total party-miles 228 (24 on foot, 204 by car).

Pied-billed Grebe 3, Great Blue Heron 12, Black-crowned Night Heron 1 (no details — Ed.), Canada Goose 4114, Wood Duck 6, Green-winged Teal 14, Mallard 2618, Northern Pintail 2, Blue-winged Teal 2, Gadwall 24, American Wigeon 20, Redhead 9, Ring-necked Duck 18, Lesser Scaup 34, Common Goldeneye 107, Bufflehead 3, Hooded Merganser 5, Common Merganser 7, Ruddy Duck 2, Bald Eagle 1, Northern Harrier 3, Red-tailed Hawk 47, Red-tailed (Harlan's) Hawk 2, American Kestrel 13, Merlin 1, Ring-necked Pheasant 7, Northern Bobwhite 1, American Coot 92, *Calidris*

sp. 1, Ring-billed Gull 315, Herring Gull 26, Rock Dove 387, Mourning Dove 1, Eastern Screech-owl 2, Great Horned Owl 8, Belted Kingfisher 9, Red-bellied Woodpecker 7, Yellow-bellied Sapsucker 1, Downy Woodpecker 22, Hairy Woodpecker 2, Northern (Yellow-shafted) Flicker 15, Northern (Red-shafted) Flicker 2, Northern Flicker ssp. 6, Horned Lark 2500, Blue Jay 53, American Crow 10,000, Black-capped Chickadee 84, Tufted Titmouse 12, Red-breasted Nuthatch 7, White-breasted Nuthatch 6, Brown Creeper 6, Carolina Wren 1, Golden-crowned Kinglet 10, Ruby-crowned Kinglet 3, Townsend's Solitaire 1, American Robin 9, Northern Mockingbird 1, Brown Thrasher 1, European Starling 1248, Yellow-rumped (Myrtle) Warbler 1, Northern Cardinal 115, Rufous-sided Towhee 8, American Tree Sparrow 232, Chipping Sparrow 1 (fair details — Ed.), Field Sparrow 1, Song Sparrow 80, Lincoln's Sparrow 3, Swamp Sparrow 1, White-throated Sparrow 13, White-crowned Sparrow 8, Harris' Sparrow 968, Dark-eyed (Slate-colored) Junco 204, Dark-eyed (Oregon) Junco 6, Lapland Longspur 500, Red-winged Blackbird 1405, Western Meadowlark 1, *Sturnella* sp. 151, Yellow-headed Blackbird 1, Great-tailed Grackle 101, Common Grackle 801, Brown-headed Cowbird 168, Pine Siskin 54, American Goldfinch 83, Evening Grosbeak 3, House Sparrow 1070. Total 80 species (3 additional subspecies), about 27,893 individuals. Seen in area during count period, but not on count day — Winter Wren.

Ron Carter, Wallace Champeny (compiler — RR 1, Oxford, KS 67119), Mike Dwyer, Rick Goodrick, Robert Herrman, Dan Kilby, Mike Lesan, Jean and Miriam Roark, Don Vannoy, Mary and Ralph Wiley.

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 30%, riparian woodland 20%, grassland 15%. coniferous stands 15%, oldfields and fencerows 10%, cultivated fields 8%, marsh 2%. January 4, 1986.7:30 a.m. to 5:00 p.m. 24° to 28° F; wind N-NW, 20-30 m.p.h.; waters partly open; no snow cover; clear. Three observers in 2 parties. Total party-hours 19 (10 on foot, 9 by car) plus 0.5 hrs. owling. Total party-miles 185 (10 on foot, 175 by car) and 10 miles owling.

Great Blue Heron 1, Canada Goose 405, Mallard 162, Gadwall 1, Redhead 3, Common Goldeneye 36, Bufflehead 1, Bald Eagle 6, Northern Harrier 8, Sharp-shinned Hawk 1, Cooper's Hawk 1, Red-tailed Hawk 16, Ferruginous Hawk 1, Rough-legged Hawk 2, *Buteo* sp. 1, Golden Eagle 1, American Kestrel 8, Merlin 1, Prairie Falcon 1, Ring-necked Pheasant 2, Ring-billed Gull 2, Herring Gull 3, Common Barn-owl 3, Great Horned Owl 1, Belted Kingfisher 4, Downy Woodpecker 3, Hairy Woodpecker 3, Northern (Yellow-shafted) Flicker 4, Northern (Red-shafted) Flicker 4, Horned Lark 211, Blue Jay 6, Black-billed Magpie 2, American Crow 4, Black-capped Chickadee 20, Golden-crowned Kinglet 10, American Robin 23, Cedar Waxwing 10, European Starling 34, Northern Cardinal 5, American Tree Sparrow 1498, Savannah Sparrow 1 (excellent details — Ed.), Song Sparrow 4, Harris' Sparrow 840, Dark-eyed (Slate-colored) Junco 19, Dark-eyed (Oregon) Junco 3, Red-winged Blackbird 11,600, Western Meadowlark 7, Rusty Blackbird 3, Brown-headed Cowbird 2, American Goldfinch 22, House Sparrow 22. Total 48 species (2 additional subspecies), about 15,031 individuals.

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