

STATUS OF WILDLIFE POPULATIONS,

04 - 0617

FALL 2004

(INCLUDING 1998 - 2003 HUNTING AND TRAPPING HARVEST STATISTICS)



**MINNESOTA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FISH AND WILDLIFE
ST. PAUL, MINNESOTA**

STATUS OF WILDLIFE POPULATIONS, FALL 2004

(Including 1993-2003 Hunting and Trapping Harvest Statistics)



edited by
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This report should be cited as follows:

Dexter, M.H., editor. 2004. Status of wildlife populations, fall 2004. Unpub. Rep., Division of Fish and Wildlife, Minn. Dept. Nat. Res., St. Paul, Minnesota. 176 pp.

Note: Data in this report may change as a result of future verification and more comprehensive analysis.

Status of Wildlife Populations, Fall 2004

(Including 1993-2003 Hunting and Trapping Harvest Statistics)

This is the 28th year that the Research Unit has compiled this booklet; it is primarily an administrative document intended for DNR personnel. (Since 1984 we have also generated a companion volume containing annual summaries of activities and findings from ongoing research projects in the Unit).

Most of the fieldwork associated with collection of census and survey data for farmland, and forest wildlife is performed by wildlife biologists and managers (conservation officers also participate in August roadside counts). The Farmland and Forest Wildlife Population and Research groups coordinate these activities, analyze and interpret data, and prepare recommendations for harvest regulations and season setting.

Wetland Wildlife Populations and Research Group conduct much of the census and survey work for wetland species.

Most of the hunting and trapping harvest estimates are calculated and summarized by St. Paul central office personnel.

Prairie Chickens: Beginning in 2004, population survey procedures and efforts were standardized and census blocks redistributed to better document spatial connectivity and population responses to potential habitat changes. The new maps and tables are presented in the Farmland Wildlife Populations section. A conservative hunting season was also opened in 2004. The 5-day hunt was limited to 100 permits in 7 permit areas in northwestern Minnesota. Results of the hunt are presented in the Hunting Harvest Statistics section.

Compiling and publishing this report was funded in part under the Federal Aid in Wildlife Restoration Act, Minnesota project W-69-S.

CONTENTS

Wildlife populations and surveys

| | |
|---|----|
| Farmland wildlife | 1 |
| Wildlife Damage Complaints..... | 33 |
| Predator Scent Post Survey and winter track indices | 41 |
| Forest wildlife..... | 51 |
| Migratory birds..... | 71 |

History of hunting regulations

| | |
|-----------------|----|
| Waterfowl | 93 |
|-----------------|----|

Harvest statistics

| | |
|-----------------------------|-----|
| Hunting..... | 103 |
| Trapping..... | 147 |
| Registered furbearers | 155 |

Index

| | Page |
|--|---------------|
| August farmland roadside survey | |
| 2004 data..... | 3, 11-14 |
| historical summary..... | 4- 10 |
| Badger | |
| hunting | |
| harvest..... | 109, 110, 111 |
| hunter success..... | 110 |
| number of hunters..... | 108 |
| take per hunter..... | 109, 110 |
| trapping | |
| harvest..... | 153 |
| number of trappers..... | 151 |
| pelt prices..... | 154 |
| take per trapper..... | 152 |
| Bear | |
| hunting | |
| harvest by quota area..... | 143 |
| number of hunters..... | 144 |
| permits issued..... | 144 |
| success by quota area..... | 143, 144, 145 |
| management units..... | 145 |
| wildlife damage complaints..... | 35, 36, 38 |
| Beaver | |
| pelt prices..... | 61, 154 |
| trapping | |
| harvest..... | 153 |
| number of trappers..... | 151 |
| take per trapper..... | 152 |
| Black duck | |
| hunting | |
| harvest, Minnesota, 2002-2003..... | 114 |
| Bobcat | |
| carcass examination data..... | 59 |
| harvest | |
| by county..... | 158, 162 |
| by method of take..... | 161 |
| distribution among takers by year..... | 160 |
| distribution by 5-day increments..... | 159 |
| registered take..... | 59, 153, 157 |
| pelt prices..... | 59, 154 |
| population data..... | 58, 59 |
| population model..... | 58 |
| scent post indices..... | 47, 59 |
| winter track indices..... | 49, 59 |
| Bufflehead | |
| hunting | |
| harvest, Minnesota, 2002-2003..... | 114 |

| | |
|---|--------------|
| Canvasback | |
| breeding populations, North America..... | 85, 86 |
| hunting | |
| harvest, Minnesota, 2002-2003 | 114 |
| Cat, domestic | |
| survey, scent post indices..... | 44-46 |
| Coot, American | |
| hunting | |
| harvest..... | 111 |
| number of hunters..... | 108 |
| take per hunter | 109, 110 |
| Cottontail, eastern | |
| hunting | |
| harvest..... | 111 |
| number of hunters..... | 108 |
| take per hunter | 109, 110 |
| survey | |
| August roadside | 5, 9, 12-14 |
| Coyote | |
| pelt price | 154 |
| hunting | |
| harvest..... | 111 |
| number of hunters..... | 108 |
| take per hunter | 109, 110 |
| trapping | |
| harvest..... | 153 |
| number of trappers..... | 151 |
| take per trapper..... | 152 |
| scent post indices | 44-46 |
| winter track indices | 49 |
| Crow, American | |
| hunting | |
| harvest..... | 111 |
| number of hunters..... | 108 |
| take per hunter | 109, 110 |
| Deer, white-tailed | |
| farmland/transition zone | |
| permit areas | 19 |
| productivity..... | 20-22 |
| spring population densities, estimates | 23-27 |
| survey, August roadside | 6, 12-14 |
| forest zone | |
| permit areas..... | 66 |
| spring population modeling, density estimates | 67 |
| hunting | |
| all season deer harvest by permit area..... | 141-142 |
| archery harvest by sub DMU and permit area..... | 135-137 |
| harvest and success rates..... | 129, 130 |
| licenses sold (firearms)..... | 128, 130 |
| licenses sold (archery) | 128, 130 |
| muzzleloader harvest..... | 129, 138-139 |
| muzzleloader special permit area..... | 140 |

| | |
|--|---------------|
| Deer, white-tailed (cont.) | |
| registered harvest by sub DMU and permit area | 131-134 |
| wildlife damage complaints | 35, 36, 39 |
| Dog, domestic | |
| survey, scent post indices | 44-46 |
| Dove, mourning | |
| survey | |
| August roadside | 6, 12-14 |
| Duck stamp sales | |
| Minnesota (federal and state) | 111 |
| Ducks | |
| breeding populations | |
| Minnesota | 73-76 |
| North America | 84-86 |
| hunting | |
| harvest | |
| Ranking of six most numerically important species, 1961-2003 | 117-118 |
| Minnesota | 111 |
| nonresidents in Minnesota | 113 |
| per hunter, Minnesota | 109, 110 |
| top 10 states, 2003 | 115 |
| number of hunters | |
| Minnesota | 108, 115 |
| nonresidents in Minnesota | 113 |
| Mississippi flyway | |
| active hunters | 115 |
| hunter days | 115 |
| top 10 states, 2003 | 115 |
| Ermine (see Weasel, short-tailed) | |
| Fisher | |
| carcass examination data | 63 |
| pelt prices | 63, 154 |
| population data | 62, 63 |
| population model | 62 |
| trapping | |
| permits issued | 157 |
| registered take | 63, 153, 157 |
| take by county | 163, 165, 166 |
| take by county and sex | 165 |
| take by date and sex | 164 |
| winter track indices | 49, 63 |
| Fox, gray | |
| hunting | |
| harvest | 111 |
| number of hunters | 108 |
| take per hunter | 109, 110 |
| hunter success | 110 |
| pelt prices | 154 |

| | |
|---|---------------|
| Fox, gray (cont.) | |
| trapping | |
| harvest..... | 153 |
| number of trappers..... | 151 |
| take per trapper..... | 152 |
| Fox, red | |
| hunting | |
| harvest..... | 111 |
| number of hunters..... | 108 |
| take per hunter..... | 109, 110 |
| hunter success..... | 110 |
| pelt prices..... | 154 |
| survey | |
| scent post indices..... | 44-46 |
| winter track indices..... | 49 |
| trapping | |
| harvest..... | 153 |
| number of trappers..... | 151 |
| take per trapper..... | 152 |
| Gadwall | |
| breeding populations, North America..... | 84, 86 |
| hunting | |
| harvest, Minnesota, 2002-2003..... | 114 |
| Gallinules (see Rails and Gallinules) | |
| Goldeneye | |
| hunting | |
| harvest, Minnesota, 2002-2003..... | 114 |
| Goose, Canada | |
| hunting | |
| harvest, Minnesota..... | 111, 116 |
| harvest by flyway..... | 116 |
| hunter days..... | 116 |
| number of hunters, Minnesota..... | 108, 116 |
| number of hunters, nonresident in Minnesota..... | 113 |
| hunter success..... | 110 |
| take per hunter, Minnesota..... | 109, 110, 116 |
| take per nonresident hunter..... | 113 |
| Top 10 states, 2003..... | 116 |
| breeding populations | |
| Eastern Prairie Population breeding survey, 1971-72 thru 2003-04..... | 77, 78, 79 |
| Minnesota Canada goose density estimates..... | 80, 81 |
| wildlife damage complaints..... | 35, 37, 40 |
| Goose, other than Canada | |
| hunting | |
| harvest, Minnesota..... | 111 |
| number of hunters..... | 108 |
| take per hunter..... | 109, 110 |
| hunter success..... | 110 |

| | |
|--|----------|
| Grouse, ruffed | |
| hunting | |
| harvest..... | 111 |
| number of hunters..... | 108 |
| number of nonresident hunters..... | 113 |
| hunter success..... | 110 |
| take per hunter..... | 109, 110 |
| take per nonresident hunter..... | 113 |
| survey, Spring drumming..... | 53-55 |
| Grouse, sharp-tailed | |
| hunting | |
| harvest..... | 111 |
| number of hunters..... | 108 |
| take per hunter..... | 109, 110 |
| hunter success..... | 110 |
| survey | |
| Spring dancing ground..... | 56 |
| Grouse, spruce | |
| hunting | |
| harvest..... | 111 |
| number of hunters..... | 108 |
| take per hunter..... | 109, 110 |
| hunter success..... | 110 |
| Hare, snowshoe | |
| hunting | |
| harvest..... | 111 |
| number of hunters..... | 108 |
| take per hunter..... | 109, 110 |
| hunter success..... | 110 |
| survey..... | 57 |
| winter track indices..... | 49 |
| Hunters, deer | |
| hunting success..... | 129 |
| licenses sold (firearms, archery)..... | 128, 130 |
| Hunters, small game | |
| harvest..... | 111 |
| license sales..... | 111, 112 |
| mail survey response..... | 106, 107 |
| numbers hunting and not hunting..... | 107, 108 |
| take per hunter..... | 109, 110 |
| success rates..... | 110 |
| Hunters, trends..... | 105 |
| Hunters, nonresident small game | |
| harvest..... | 113 |
| licenses sold..... | 113 |
| mail survey response..... | 113 |

| | |
|--|--------------|
| Hunters, waterfowl | |
| ducks retrieved per hunter-day | |
| Minnesota | 115 |
| Mississippi flyway | 115 |
| top 10 states | 115 |
| United States | 115 |
| duck stamp sales | |
| Minnesota | 111 |
| harvest by flyway | |
| all duck harvest | 114 |
| all goose harvest | 116 |
| harvest by species, Minnesota | 114 |
| hunter-days | |
| Minnesota | 115, 116 |
| Mississippi flyway | 115, 116 |
| top 10 states | 115, 116 |
| United States | 115, 116 |
| number of hunters | |
| Minnesota | 115, 116 |
| Mississippi flyway | 115 |
| nonresidents in Minnesota | 113 |
| top 10 states | 115, 116 |
| United States | 115, 116 |
| Jackrabbit, white-tailed | |
| hunting | |
| harvest | 111 |
| hunter success | 110 |
| number of hunters | 108 |
| take per hunter | 109, 110 |
| survey | |
| August roadside | 5, 10, 12-14 |
| Lynx | |
| pelt prices | 154 |
| trapping | |
| registered harvest, | 153 |
| Mallard (domestic) | |
| hunting | |
| harvest, Minnesota | 114 |
| Mallard (wild) | |
| breeding populations | |
| Minnesota | 73, 74 |
| North America | 84, 86 |
| hunting | |
| harvest, Minnesota, 2002-2003 | 114 |
| ranking of six most numerically important species, 1961-2003 | 117-118 |
| Marten, pine | |
| carcass examination data | 65 |
| pelt prices | 65, 154 |
| population data | 65 |
| population model | 64 |

| | |
|-------------------------------------|-------------------|
| Marten, pine (cont.) | |
| trapping | |
| permits issued | 157 |
| registered harvest | 65, 153, 157, 167 |
| take by county | 167, 169 170 |
| take by county and sex | 169 |
| take by date and sex | 168 |
| winter track indices | 49, 69 |
| Merganser, hooded | |
| hunting | |
| harvest, Minnesota, 2002-2003 | 114 |
| Merganser, other than hooded | |
| hunting | |
| harvest, Minnesota, 2002-2003 | 114 |
| Mink | |
| pelt prices | 154 |
| trapping | |
| harvest | 153 |
| number of trappers | 151 |
| take per trapper | 152 |
| Moose | |
| hunting, 1985-2003 | |
| harvest | 146 |
| license applications | 146 |
| licenses issued | 146 |
| party success | 146 |
| sex ratio of moose killed | 146 |
| survey, aerial | |
| area boundaries | 68 |
| population estimates | 68, 69 |
| Muskrat | |
| pelt prices | 154 |
| trapping | |
| harvest | 153 |
| number of trappers | 151 |
| take per trapper | 152 |
| Opossum | |
| pelt prices | 154 |
| trapping | |
| harvest | 153 |
| number of trappers | 151 |
| take per trapper | 152 |
| Otter | |
| pelt prices | 61, 154 |
| population data | 61 |
| population model | 60 |
| trapping | |
| permits issued | 157 |
| registered take | 61, 153, 157 |
| take by county | 171, 173, 174-175 |
| take by county and sex | 173 |
| take by date and sex | 172 |

| | |
|--|----------------|
| Partridge, gray | |
| hunting | |
| harvest..... | 111 |
| hunter success..... | 110 |
| number of hunters..... | 108 |
| take per hunter | 109, 110 |
| survey | |
| August roadside | 4, 8, 12-14 |
| Pelt prices of furbearers, 1989-90 thru 2003-04..... | 154 |
| Pheasant, ring-necked | |
| hunting | |
| harvest..... | 4, 111 |
| harvest by nonresident hunters..... | 113 |
| hunter success..... | 110 |
| number of hunters..... | 108 |
| number of nonresident hunters | 113 |
| take per hunter | 109, 110 |
| take per nonresident hunter | 113 |
| survey | |
| August roadside | |
| agricultural region data..... | 3, 7, 12-14 |
| birds observed per 100 miles driven..... | 3, 4, 7, 12-14 |
| broods | |
| observed per 100 miles driven | 12 |
| observed per 100 hens..... | 12 |
| mean size..... | 12 |
| cocks observed per 100 miles driven..... | 12 |
| hatch date..... | 12 |
| hens observed per 100 miles driven..... | 12 |
| Pheasant stamp sales..... | 111 |
| Pintail | |
| breeding populations, North America..... | 85, 86 |
| hunting | |
| harvest, Minnesota, 2002-2003..... | 114 |
| Ponds, May (North Central U.S. and Prairie Canada) | 82, 83, 85 |
| Prairie chicken, greater | |
| survey | |
| Spring booming grounds..... | 15-18 |
| hunting | |
| area open to hunting by zone..... | 127 |
| harvest..... | 126 |
| number of permits available..... | 126 |
| applicants | 126 |
| number of permits issued..... | 126 |
| success rate..... | 126 |
| take by sex..... | 126 |
| Predator scent post survey | |
| indices | 43-47 |
| route locations | 43 |
| Rabbit (see Cottontail, eastern; Hare, snowshoe; and Jackrabbit, white-tailed) | |

| | |
|---|---------------------|
| Raccoon | |
| hunting | |
| harvest..... | 111 |
| harvest by nonresident hunters..... | 113 |
| hunter success..... | 110 |
| number of hunters..... | 108 |
| number of nonresident hunters..... | 113 |
| take per hunter..... | 109, 110 |
| take per nonresident hunter..... | 113 |
| pelt prices..... | 154 |
| trapping | |
| harvest..... | 153 |
| number of trappers..... | 151 |
| take per trapper..... | 152 |
| survey, scent post indices..... | 44-46 |
| Rails/gallinules | |
| hunting | |
| harvest..... | 111 |
| hunter success..... | 110 |
| number of hunters..... | 108 |
| take per hunter..... | 109, 110 |
| Redhead | |
| breeding populations, North America..... | 85, 86 |
| hunting | |
| harvest, Minnesota, 2002-2003..... | 114 |
| Registered furbearers | |
| harvest..... | 58-65, 153, 155-175 |
| permits issued..... | 157 |
| population data..... | 58-65 |
| Ring-necked duck | |
| hunting | |
| harvest, Minnesota, 2002-2003..... | 114 |
| ranking of six most numerically important species, 1961-2003..... | 117-118 |
| Ruddy duck | |
| hunting | |
| harvest, Minnesota, 2002-2003..... | 114 |
| Scaup, greater | |
| breeding populations, North America..... | 85, 86 |
| hunting | |
| harvest, Minnesota, 2002-2003..... | 114 |
| Scaup, lesser | |
| breeding populations, North America..... | 85, 86 |
| hunting | |
| harvest, Minnesota, 2002-2003..... | 114 |
| ranking of six most numerically important species, 1961-2003..... | 117-118 |
| Scent post survey (see Predator scent post survey) | |
| Scoter | |
| hunting | |
| harvest, Minnesota, 2002-2003..... | 114 |

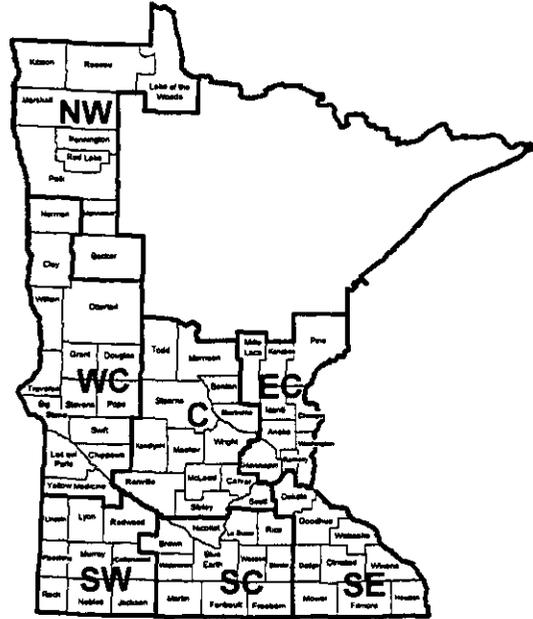
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|--|----------|
| Shoveler, northern | |
| breeding populations, North America | 85, 86 |
| hunting | |
| harvest, Minnesota, 2002-2003 | 114 |
| Skunk, spotted | |
| pelt prices | 154 |
| trapping | |
| harvest | 153 |
| number of trappers | 151 |
| take per trapper | 152 |
| Skunk, striped | |
| pelt prices | 154 |
| survey | |
| scent post indices | 44-46 |
| trapping | |
| harvest | 153 |
| number of trappers | 151 |
| take per trapper | 152 |
| Snipe, common | |
| hunting | |
| harvest | 111 |
| hunter success | 110 |
| number of hunters | 108 |
| take per hunter | 109, 110 |
| Squirrel, fox | |
| hunting | |
| harvest | 111 |
| hunter success | 110 |
| number of hunters | 108 |
| take per hunter | 109, 110 |
| Squirrel, gray | |
| hunting | |
| harvest | 111 |
| hunter success | 110 |
| number of hunters | 108 |
| take per hunter | 109, 110 |
| Teal, blue-winged | |
| breeding populations | |
| Minnesota | 75, 76 |
| North America | 84, 86 |
| hunting | |
| harvest, Minnesota, 2002-2003 | 114 |
| ranking of six most numerically important species, 1961-2003 | 117-118 |
| Teal, green-winged | |
| breeding populations, North America | 84, 86 |
| hunting | |
| harvest, Minnesota, 2002-2003 | 114 |
| ranking of six most numerically important species, 1961-2003 | 117-118 |

| | |
|--|--------------|
| Trappers | |
| harvest..... | 153 |
| license sales..... | 153 |
| mail survey response..... | 149, 150 |
| number trapping..... | 150, 151 |
| take per trapper..... | 152 |
| Turkey, wild | |
| Fall hunting | |
| area open to hunting by zone..... | 123, 125 |
| harvest..... | 123, 124 |
| number of permits available..... | 123 |
| number of permits issued..... | 123 |
| success rate..... | 123 |
| take by sex..... | 124 |
| Spring hunting | |
| area open to hunting by zone..... | 119, 122 |
| harvest..... | 119, 120-121 |
| number of permits available..... | 119, 120-121 |
| number of permit applicants..... | 119 |
| number of persons hunting..... | 119 |
| success rate..... | 119 |
| Survey, HOWT (Hunters observing wild turkeys)..... | 28-32 |
| Waterfowl (see Ducks; duck by species name; Geese; and Hunters, waterfowl) | |
| History of hunting regulations, 1915-2004..... | 93-101 |
| Weasel, long-tailed | |
| pelt prices..... | 154 |
| trapping | |
| harvest..... | 153 |
| number of trappers..... | 151 |
| take per trapper..... | 152 |
| winter track indices..... | 49 |
| Weasel, short-tailed | |
| pelt prices..... | 154 |
| trapping | |
| harvest..... | 153 |
| number of trappers..... | 151 |
| take per trapper..... | 152 |
| winter track indices..... | 49 |
| Wigeon, American | |
| breeding populations, North America..... | 84, 86 |
| hunting | |
| harvest, Minnesota, 2002-2003..... | 114 |
| ranking of six most numerically important species, 1961-2003..... | 117-118 |
| Wildlife damage complaints, bear, deer, goose..... | 35-40 |
| Winter track indices..... | 48-49 |
| Wolf, gray | |
| survey | |
| scent post indices..... | 47 |
| winter track indices..... | 49 |

| | |
|--|------------|
| Woodcock, American | |
| singing ground survey results | 88, 89, 91 |
| breeding range | 87, 91 |
| hunting | |
| days afield..... | 90 |
| harvest..... | 90, 111 |
| hunter success..... | 110 |
| number of hunters..... | 90, 108 |
| take per hunter | 109, 110 |
| recruitment | 89 |
| Wood duck | |
| hunting | |
| harvest, Minnesota, 2002-2003 | 114 |
| ranking of six most numerically important species, 1961-2003 | 117-118 |

FARMLAND WILDLIFE POPULATIONS
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Pheasants/100



| <u>RANGEWIDE</u> | |
|-----------------------|-----|
| 2004 | 57 |
| 2003 | 108 |
| 1994-2003 | 59 |
| 1955-1964 | 288 |
| LTA (1955-2003) | 104 |
| <u>% change from:</u> | |
| 2003 | -47 |
| 1993-2003 | -2 |
| 1955-1964 | -80 |
| LTA | -45 |

| <u>WEST CENTRAL</u> | |
|-----------------------|-----|
| 2004 | 45 |
| 2003 | 82 |
| 1994-2003 | 37 |
| 1955-1964 | 346 |
| LTA (1955-2003) | 107 |
| <u>% change from:</u> | |
| 2003 | -45 |
| 1993-2003 | 22 |
| 1955-1964 | -87 |
| LTA | -58 |

| <u>CENTRAL</u> | |
|-----------------------|-----|
| 2004 | 39 |
| 2003 | 88 |
| 1994-2003 | 44 |
| 1955-1964 | 190 |
| LTA (1955-2003) | 75 |
| <u>% change from:</u> | |
| 2003 | -55 |
| 1993-2003 | -11 |
| 1955-1964 | -79 |
| LTA | -47 |

| <u>EAST CENTRAL</u> | |
|-----------------------|-----|
| 2004 | 41 |
| 2003 | 56 |
| 1994-2003 | 47 |
| 1955-1964 | 184 |
| LTA (1955-2003) | 90 |
| <u>% change from:</u> | |
| 2003 | -27 |
| 1993-2003 | -12 |
| 1955-1964 | -78 |
| LTA | -54 |

| <u>SOUTHWEST</u> | |
|-----------------------|-----|
| 2004 | 123 |
| 2003 | 244 |
| 1994-2003 | 91 |
| 1955-1964 | 356 |
| LTA (1955-2003) | 112 |
| <u>% change from:</u> | |
| 2003 | -50 |
| 1993-2003 | 35 |
| 1955-1964 | -65 |
| LTA | 10 |

| <u>SOUTH CENTRAL</u> | |
|-----------------------|-----|
| 2004 | 74 |
| 2003 | 137 |
| 1994-2003 | 83 |
| 1955-1964 | 409 |
| LTA (1955-2003) | 141 |
| <u>% change from:</u> | |
| 2003 | -46 |
| 1993-2003 | -12 |
| 1955-1964 | -82 |
| LTA | -48 |

| <u>SOUTHEAST</u> | |
|-----------------------|-----|
| 2004 | 29 |
| 2003 | 48 |
| 1994-2003 | 57 |
| 1955-1964 | 129 |
| LTA (1955-2003) | 83 |
| <u>% change from:</u> | |
| 2003 | -40 |
| 1993-2003 | -49 |
| 1955-1964 | -77 |
| LTA | -65 |

Figure 1. Ring-necked pheasants seen per 100 miles of August Roadside Survey and percent change from 2003, 10-yr mean (1994-2003), benchmark (1955-1964), and long-term average (1955-2003). Benchmark reflects soil-bank years with marginal cropland in long-term set-aside, a diversified agricultural landscape, more small grains and tame hay, and less pesticide use. Note: estimates are based on all routes completed and, thus, may differ from values in Table 2 and 3 (full report), which were based on routes directly comparable among years (i.e., unaltered routes with few or no missing survey years).

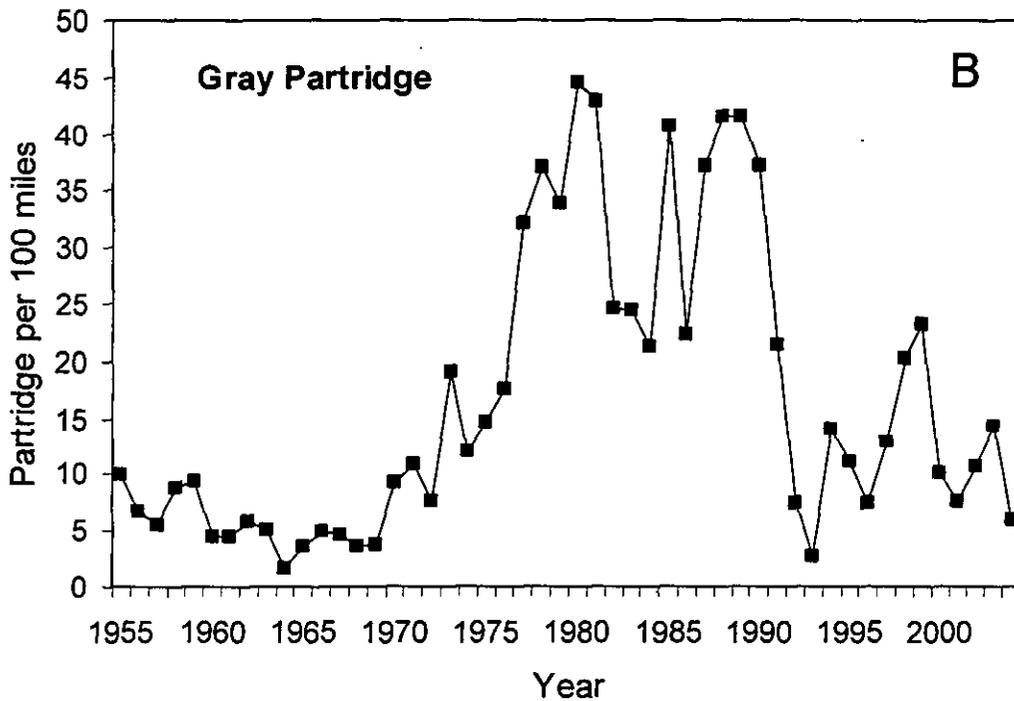
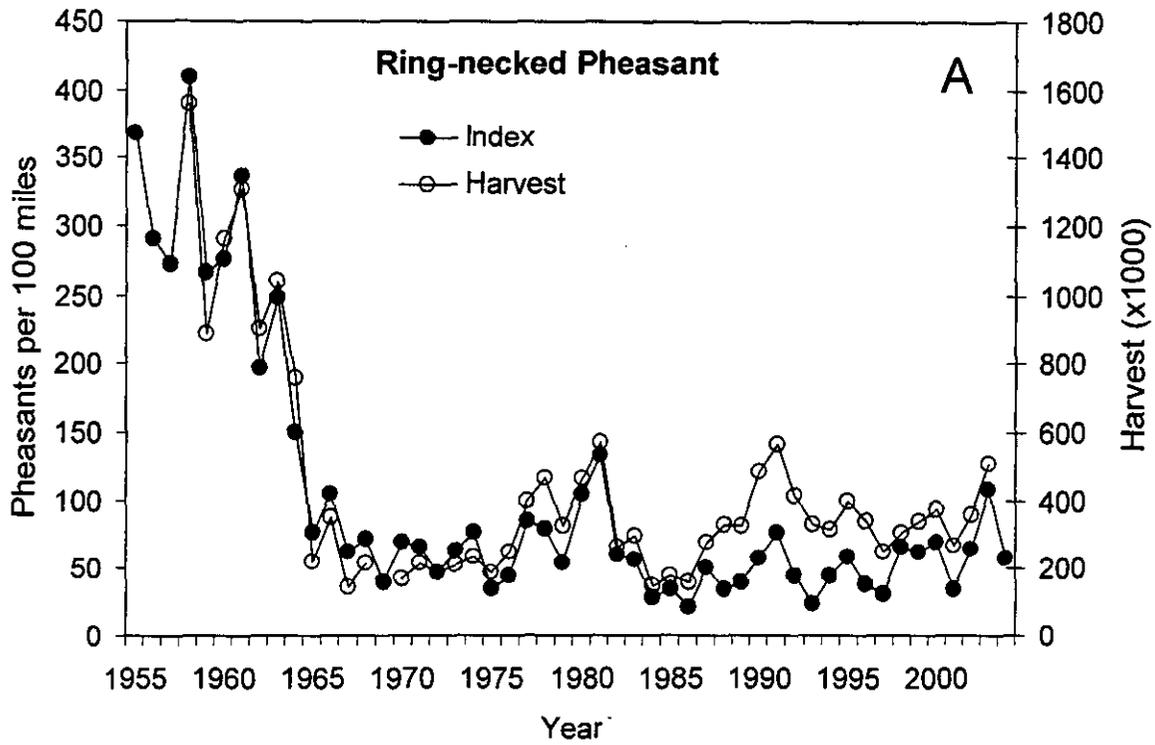


Figure 2. Statewide index of ring-necked pheasants (A) and gray partridge (B) seen per 100 miles driven. Does not include the Northwest region. Based on all survey routes completed.

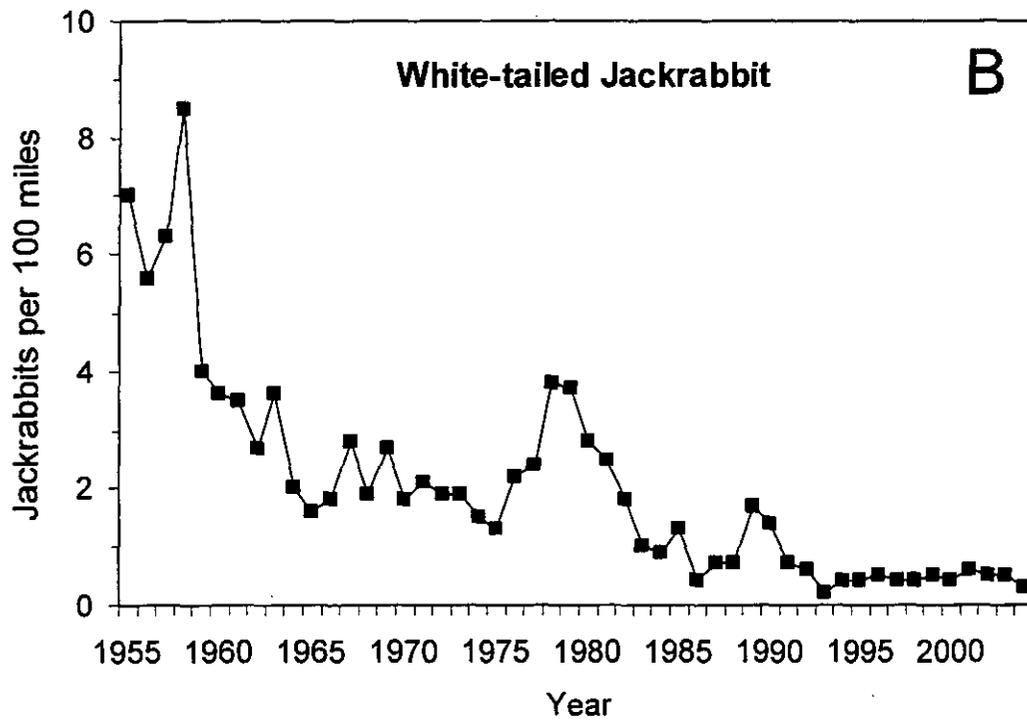
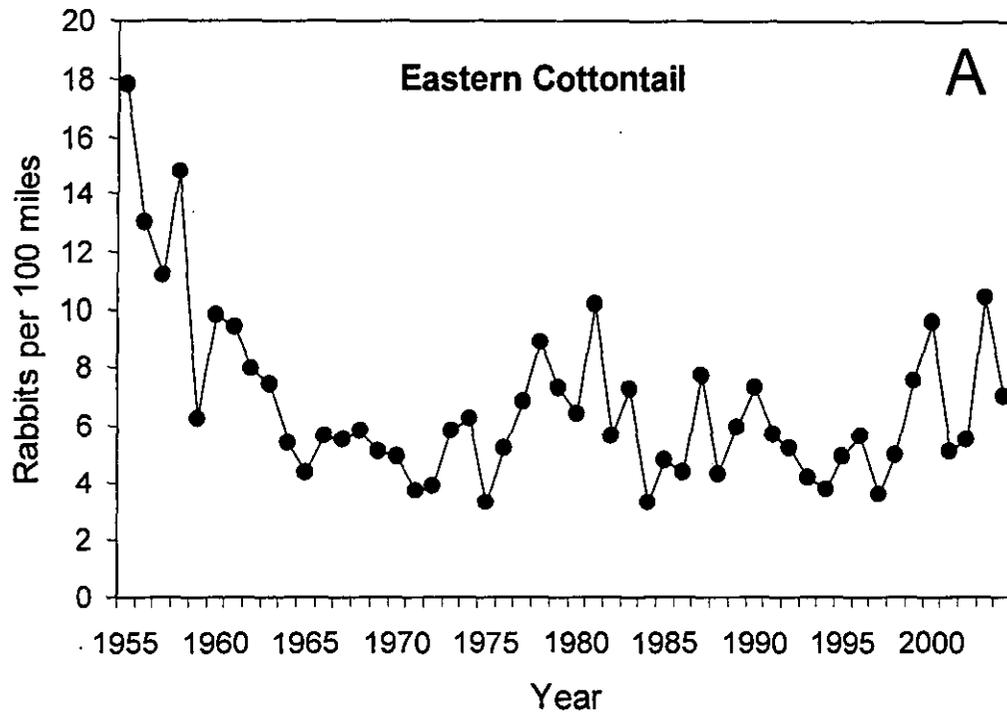


Figure 3. Statewide index of eastern cottontail (A) and white-tailed jackrabbits (B) seen per 100 miles driven. Does not include the Northwest region. Based on all survey routes completed.

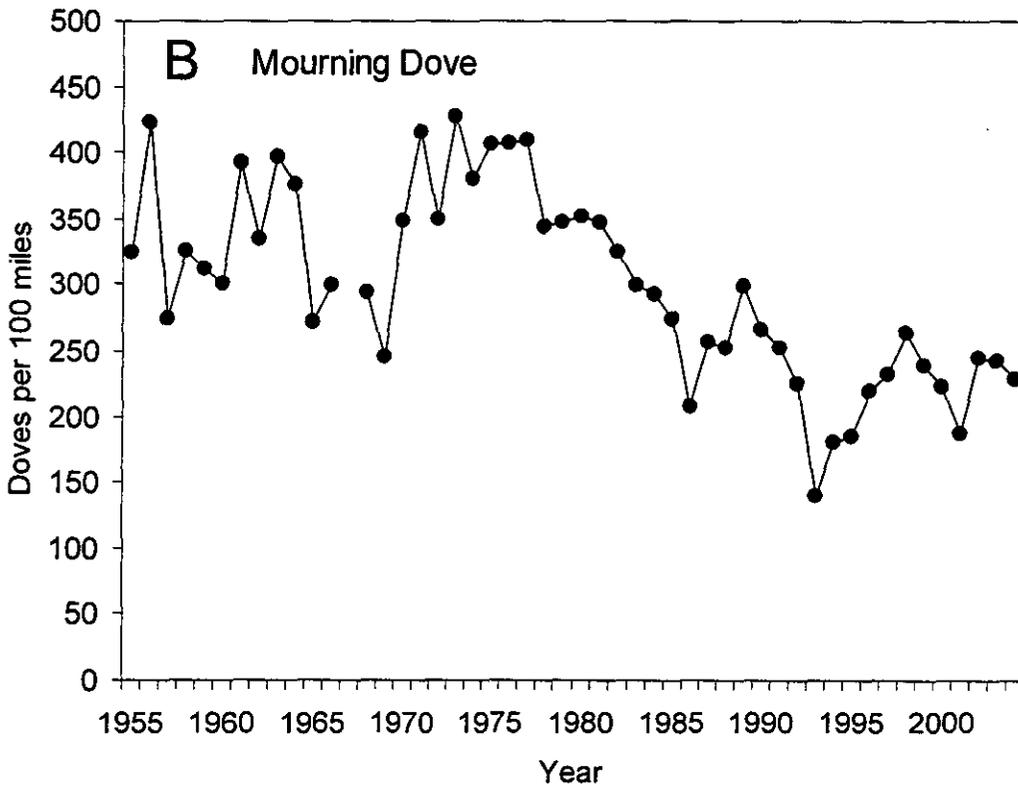
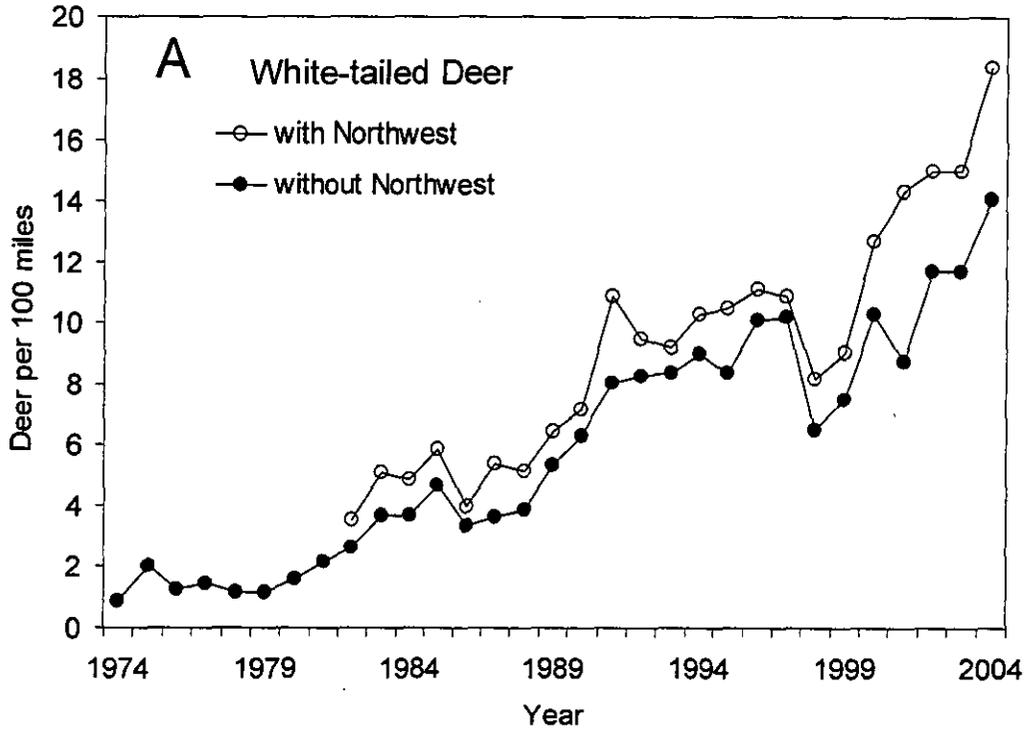


Figure 4. Statewide index of white-tailed deer (A) and mourning doves (B) seen per 100 miles driven. Doves were not counted in 1967 and the dove index does not include the Northwest region. Based on all survey routes completed.

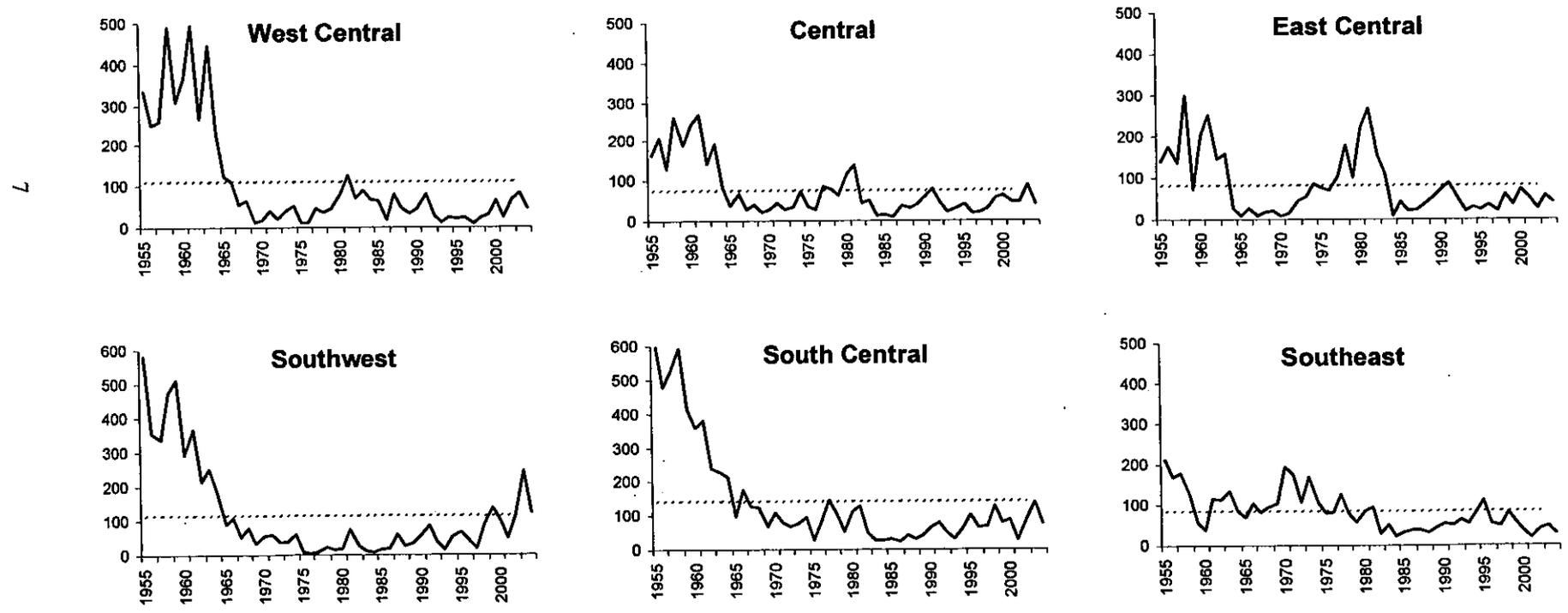
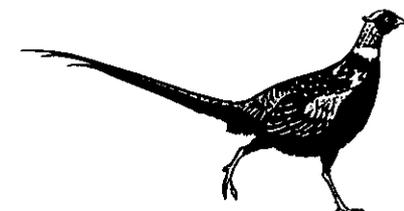


Figure 5. Regional index (—) and long-term average (.....) of ring-necked pheasants seen per 100 miles driven, Minnesota August roadside survey (1955-present). Based on all survey routes completed.

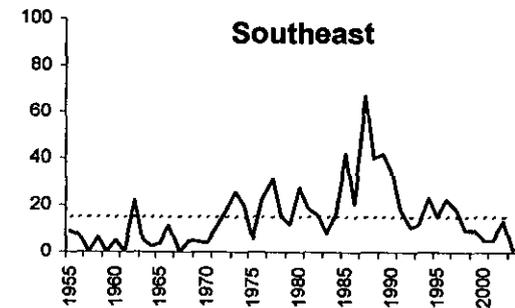
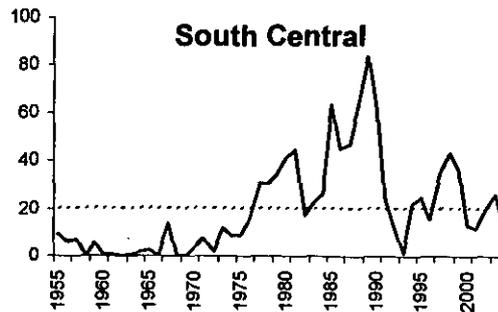
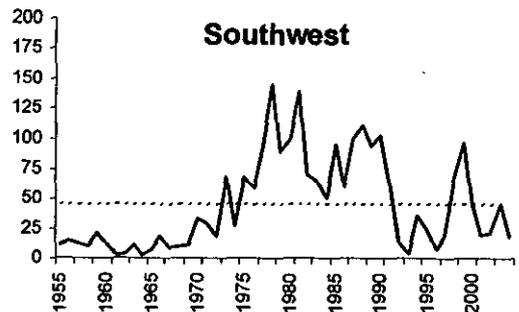
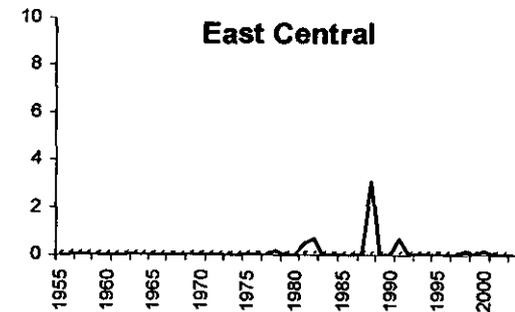
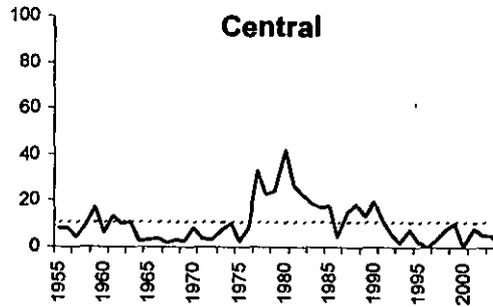
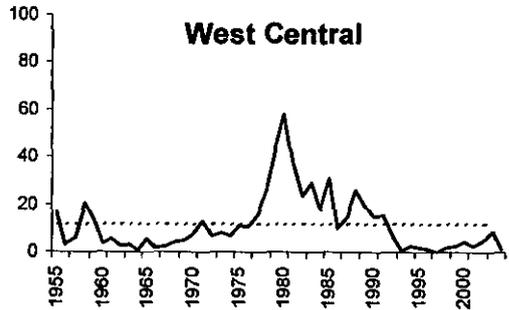
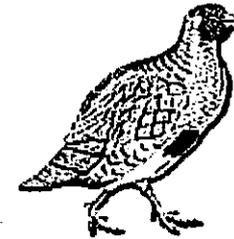
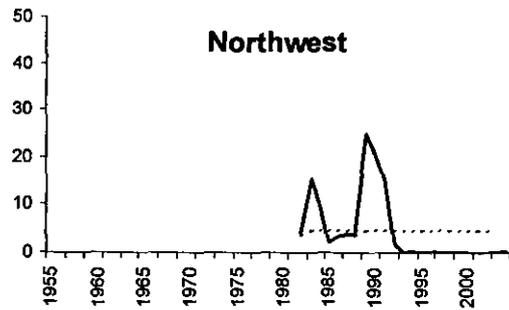
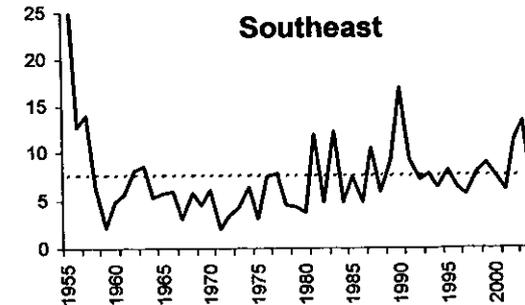
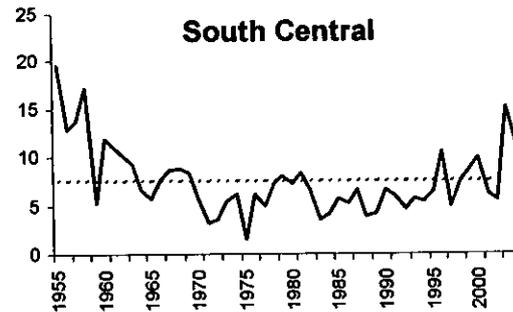
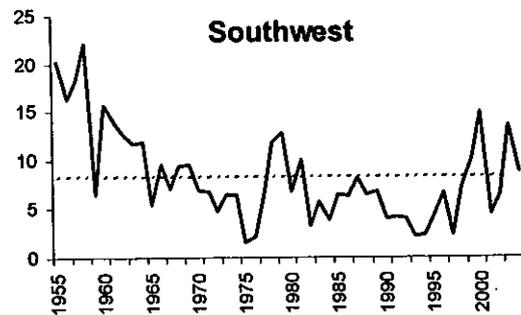
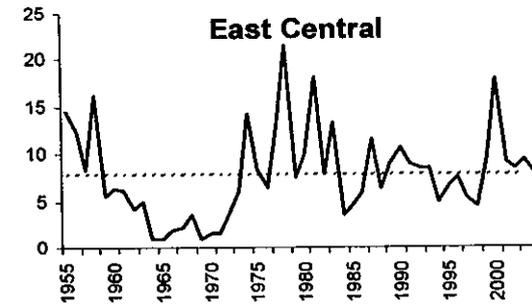
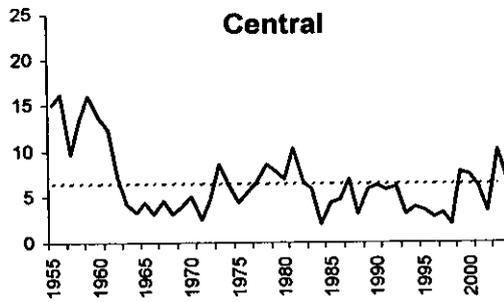
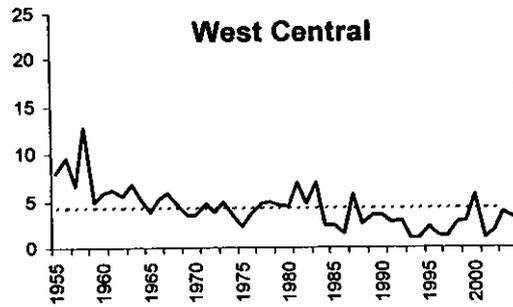
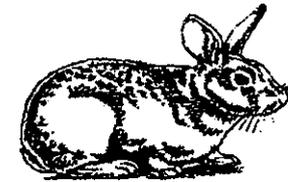
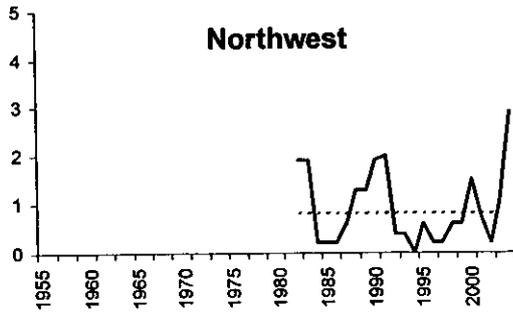


Figure 6. Regional index (—) and long-term average (·····) of gray partridge seen per 100 miles driven, Minnesota August roadside survey (1955-present). Based on all survey routes completed. Note: scale of vertical axis is not the same among survey regions.



6

Figure 7. Regional index (—) and long-term average (.....) of cottontail rabbits seen per 100 miles driven, Minnesota August roadside survey (1955-present). Based on all survey routes completed. Note: scale of vertical axis is not the same among survey regions.

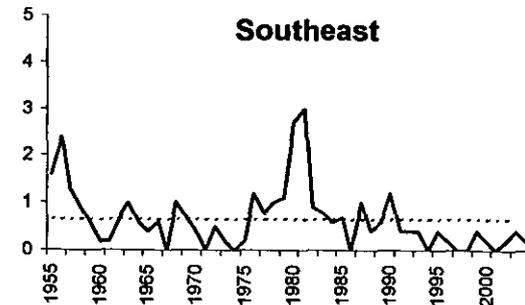
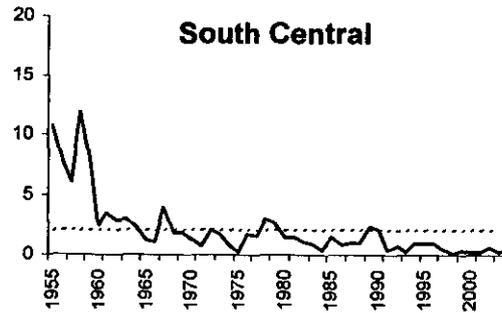
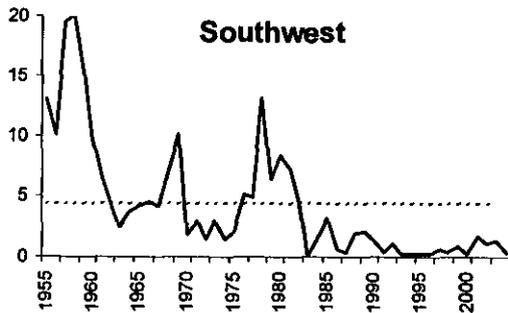
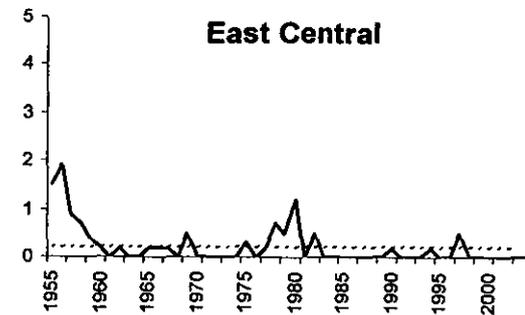
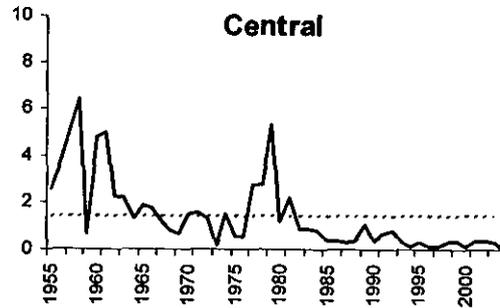
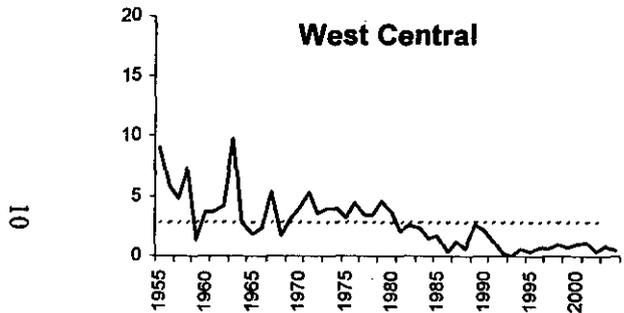
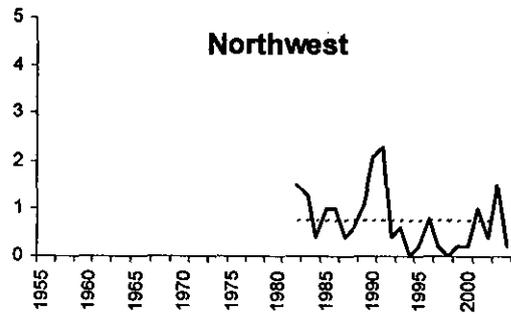


Figure 8. Regional index (—) and long-term average (.....) of white-tailed jackrabbits seen per 100 miles driven, Minnesota August roadside survey (1955-present). Based on all survey routes completed. Note: scale of vertical axis is not the same among survey regions.



Table 1. Abundance (total acres) and density (acres/mi²) of undisturbed grassland habitat within the pheasant range, 2004^a.

| AGREG | Cropland retirement | | | | | USFWS ^c | MNDNR ^d | Total | % | Density (ac/mi ²) |
|-----------------|---------------------|---------|--------|---------|--------|--------------------|--------------------|-----------|-----|----------------------------------|
| | CRP | CREP | RIM | RIM-WRP | WRP | | | | | |
| WC ^b | 173,033 | 37,379 | 14,325 | 822 | 11,199 | 151,624 | 95,507 | 483,888 | 7.1 | 45.6 |
| SW | 121,775 | 22,040 | 9,786 | 579 | 969 | 11,958 | 49,265 | 216,371 | 5.7 | 36.6 |
| C | 151,149 | 14,490 | 14,839 | 714 | 2,767 | 42,670 | 41,631 | 268,260 | 4.4 | 28.4 |
| SC | 178,512 | 26,557 | 9,882 | 3,796 | 8,187 | 5,775 | 29,168 | 261,876 | 6.5 | 41.5 |
| SE | 150,841 | 0 | 4,841 | 554 | 541 | 74 | 44,065 | 200,916 | 5.4 | 34.7 |
| EC | 91,524 | 0 | 779 | 0 | 4 | 0 | 82,163 | 174,470 | 5.4 | 34.8 |
| Total | 866,833 | 100,465 | 54,452 | 6,465 | 23,665 | 212,101 | 341,799 | 1,605,781 | 5.8 | 37.3 |

^a Unpublished data, Tabor Hoek, BWSR, 17 February 2004.

^b Does not include Norman County.

^c Includes Waterfowl Production Areas (WPA) and USFWS easements, but does not include USFWS refuges.

^d MNDNR Wildlife Management Areas (WMA).

Table 2. Statewide trends (% change) in number of wildlife observed per 100 miles driven, Minnesota August roadside survey, 1955-2004.

| Species Subgroup | Change from 2003 ^a | | | | | Change from 10-year average ^b | | | | Change from long-term average ^c | | | |
|--------------------------------|-------------------------------|--------|--------|-----|--------|--|---------|-----|--------|--|-------|-----|--------|
| | <i>n</i> | 2003 | 2004 | % | 95% CI | <i>n</i> | 1994-03 | % | 95% CI | <i>n</i> | LTA | % | 95% CI |
| Ring-necked pheasant | | | | | | | | | | | | | |
| Total pheasants | 153 | 108.0 | 57.1 | -47 | ±12 | 151 | 59.0 | -2 | ±16 | 142 | 107.2 | -44 | ±10 |
| Cocks | | 8.8 | 8.4 | -5 | ±17 | | 5.0 | 70 | ±27 | | 12.2 | -28 | ±12 |
| Hens | | 15.1 | 10.6 | -26 | ±15 | | 8.0 | 34 | ±24 | | 15.4 | -27 | ±14 |
| Broods | | 16.7 | 9.2 | -45 | ±13 | | 9.0 | 4 | ±17 | | 13.7 | -29 | ±13 |
| Chicks per brood | | 5.0 | 4.2 | -17 | | | 5.2 | -20 | | | 5.7 | -27 | |
| Broods per 100 hens | | 110.9 | 86.5 | -21 | | | 112.8 | -23 | | | 101.8 | -15 | |
| Median hatch date | | Jun 07 | Jun 07 | | | | Jun 07 | | | | | | |
| Gray partridge | | | | | | | | | | | | | |
| Total partridge | 172 | 12.7 | 5.3 | -58 | ±26 | 170 | 11.9 | -55 | ±21 | 142 | 17.4 | -63 | ±19 |
| Adults | | 2.9 | 2.3 | -24 | ±27 | | 3.0 | -24 | ±23 | | 4.4 | -38 | ±20 |
| Broods | | 1.0 | 0.5 | -49 | ±29 | | 1.1 | -51 | ±25 | | 1.5 | -57 | ±22 |
| Chicks per brood | | 9.3 | 5.7 | -45 | | | 8.2 | -30 | | | 9.0 | -37 | |
| Broods per 100 adults | | 35.4 | 23.7 | -27 | | | 36.1 | -34 | | | 33.6 | -29 | |
| Median hatch date | | Jun 22 | Jun 23 | | | | Jun 24 | | | | | | |
| Eastern cottontail | 172 | 9.4 | 6.6 | -29 | ±20 | 170 | 5.5 | 21 | ±25 | 142 | 6.9 | 6 | ±22 |
| White-tailed jackrabbit | 172 | 0.7 | 0.3 | -54 | ±50 | 170 | 0.5 | -32 | ±38 | 142 | 2.1 | -85 | ±15 |
| White-tailed deer | 172 | 15.0 | 18.4 | 22 | ±22 | 170 | 11.8 | 58 | ±23 | 147 | 5.7 | 149 | ±43 |
| Mourning dove | 172 | 225.4 | 209.2 | -7 | ±12 | 170 | 208.0 | 1 | ±11 | 142 | 281.5 | -17 | ±12 |

^a Includes Northwest region, except for pheasants. Estimates based on routes (*n*) surveyed in both years.

^b Includes Northwest region, except for pheasants. Estimates based on routes (*n*) surveyed at least 9 of 10 years.

^c LTA = 1955-2003, except for deer = 1974-2003. Does not include Northwest region (8 counties in Northwest were added to survey in 1982). Estimates for all species except deer based on routes (*n*) surveyed ≥40 years; estimates for deer based on routes surveyed ≥25 years.

Table 3. Regional trends (% change) in number of wildlife observed per 100 miles driven, Minnesota August roadside survey, 1955-2004.

| Region Species | Change from 2003 ^a | | | | | Change from 10-year average ^b | | | | Change from long-term average ^c | | | |
|------------------------------|-------------------------------|-------|-------|------|--------|--|---------|------|--------|--|-------|------|--------|
| | <i>n</i> | 2003 | 2004 | % | 95% CI | <i>n</i> | 1994-03 | % | 95% CI | <i>n</i> | LTA | % | 95% CI |
| Northwest^d | | | | | | | | | | | | | |
| Gray partridge | 19 | 0.2 | 0.0 | | | 19 | 0.0 | 0.2 | | 19 | 4.7 | -96 | ±72 |
| Eastern cottontail | | 1.1 | 2.9 | 180 | ±402 | | 0.6 | 403 | ±700 | | 0.8 | 254 | ±489 |
| White-tailed jackrabbit | | 1.5 | 0.2 | -86 | ±98 | | 0.5 | -55 | ±111 | | 0.8 | -73 | ±78 |
| White-tailed deer | | 41.7 | 53.1 | 27 | ±56 | | 30.2 | 76 | ±54 | | 23.2 | 128 | ±75 |
| Mourning dove | | 87.0 | 60.5 | -31 | ±28 | | 84.4 | -28 | ±24 | | 137.0 | -56 | ±19 |
| West Central | | | | | | | | | | | | | |
| Ring-necked pheasant | 37 | 82.2 | 45.1 | -45 | ±30 | 35 | 38.2 | 25 | ±37 | 33 | 14.2 | -41 | ±20 |
| Gray partridge | | 8.5 | 1.3 | -85 | ±78 | | 3.1 | -56 | ±71 | | 11.6 | -87 | ±25 |
| Eastern cottontail | | 3.8 | 3.2 | -15 | ±55 | | 2.5 | 39 | ±63 | | 4.5 | -23 | ±36 |
| White-tailed jackrabbit | | 0.9 | 0.5 | -38 | ±67 | | 0.7 | -24 | ±60 | | 2.8 | -83 | ±21 |
| White-tailed deer | | 13.0 | 14.4 | 11 | ±51 | | 12.4 | 22 | ±44 | | 7.7 | 91 | ±75 |
| Mourning dove | | 290.9 | 259.8 | -11 | ±25 | | 319.7 | -17 | ±19 | | 415.9 | -35 | ±19 |
| Central | | | | | | | | | | | | | |
| Ring-necked pheasant | 31 | 88.1 | 39.5 | -55 | ±24 | 31 | 44.3 | -11 | ±37 | 25 | 10.4 | -40 | ±31 |
| Gray partridge | | 5.0 | 1.3 | -74 | ±124 | | 5.1 | -75 | ±77 | | 10.6 | -85 | ±39 |
| Eastern cottontail | | 10.2 | 7.0 | -32 | ±42 | | 5.1 | 36 | ±59 | | 6.6 | 14 | ±57 |
| White-tailed jackrabbit | | 0.3 | 0.0 | -100 | ±114 | | 0.3 | -100 | ±62 | | 1.5 | -100 | ±23 |
| White-tailed deer | | 8.2 | 7.3 | -11 | ±57 | | 5.7 | 29 | ±44 | 30 | 3.6 | 103 | ±75 |
| Mourning dove | | 178.7 | 198.0 | 11 | ±38 | | 178.5 | 11 | ±25 | 25 | 243.2 | -10 | ±25 |
| East Central | | | | | | | | | | | | | |
| Ring-necked pheasant | 14 | 56.0 | 40.9 | -27 | ±37 | 14 | 47.6 | -14 | ±58 | 14 | 12.0 | -48 | ±32 |
| Gray partridge | | 0.0 | 0.0 | | | | 0.1 | -100 | ±147 | | 0.2 | -100 | ±133 |
| Eastern cottontail | | 9.4 | 8.0 | -15 | ±58 | | 8.8 | -9 | ±52 | | 8.4 | -5 | ±54 |
| White-tailed jackrabbit | | 0.0 | 0.0 | | | | 0.0 | | | | 0.3 | -100 | ±59 |
| White-tailed deer | | 15.7 | 21.7 | 38 | ±60 | | 12.3 | 77 | ±85 | | 6.6 | 229 | ±174 |
| Mourning dove | | 85.7 | 102.3 | 19 | ±32 | | 89.6 | 14 | ±34 | | 130.0 | -21 | ±35 |

Table 3. Continued.

| Region Species | Change from 2003 | | | | | Change from 10-year average | | | | Change from long-term average | | | |
|-------------------------|------------------|-------|-------|-----|--------|-----------------------------|---------|-----|--------|-------------------------------|-------|-----|--------|
| | <i>n</i> | 2003 | 2004 | % | 95% CI | <i>n</i> | 1994-03 | % | 95% CI | <i>n</i> | LTA | % | 95% CI |
| Southwest | | | | | | | | | | | | | |
| Ring-necked pheasant | 19 | 243.8 | 122.9 | -50 | ±26 | 19 | 90.9 | 35 | ±39 | 19 | 14.3 | 38 | ±40 |
| Gray partridge | | 44.9 | 18.8 | -58 | ±42 | | 37.8 | -50 | ±30 | | 45.5 | -59 | ±23 |
| Eastern cottontail | | 13.5 | 8.8 | -34 | ±52 | | 7.2 | 23 | ±57 | | 8.3 | 6 | ±53 |
| White-tailed jackrabbit | | 1.3 | 0.4 | -67 | ±158 | | 0.7 | -37 | ±117 | | 4.4 | -90 | ±26 |
| White-tailed deer | | 14.5 | 17.4 | 20 | ±62 | | 9.8 | 77 | ±81 | | 6.7 | 161 | ±120 |
| Mourning dove | | 342.4 | 276.7 | -19 | ±47 | | 263.7 | 5 | ±44 | | 310.8 | -11 | ±41 |
| South Central | | | | | | | | | | | | | |
| Ring-necked pheasant | 32 | 136.7 | 73.9 | -46 | ±23 | 32 | 83.5 | -12 | ±32 | 31 | 18.2 | -34 | ±27 |
| Gray partridge | | 26.2 | 12.9 | -51 | ±36 | | 24.7 | -48 | ±36 | | 20.9 | -36 | ±59 |
| Eastern cottontail | | 15.1 | 11.3 | -25 | ±39 | | 8.0 | 41 | ±61 | | 7.5 | 55 | ±67 |
| White-tailed jackrabbit | | 0.3 | 0.5 | 100 | ±204 | | 0.5 | -7 | ±95 | | 2.0 | -75 | ±29 |
| White-tailed deer | | 8.0 | 8.4 | 5 | ±38 | | 4.9 | 72 | ±66 | | 3.0 | 185 | ±116 |
| Mourning dove | | 256.3 | 247.6 | -3 | ±21 | | 212.0 | 17 | ±30 | 31 | 253.7 | -1 | ±30 |
| Southeast | | | | | | | | | | | | | |
| Ring-necked pheasant | 20 | 48.2 | 29.0 | -40 | ±52 | 20 | 56.6 | -49 | ±34 | 20 | 10.7 | -52 | ±31 |
| Gray partridge | | 1.0 | 2.4 | 140 | ±356 | | 12.2 | -80 | ±55 | | 15.4 | -84 | ±36 |
| Eastern cottontail | | 13.4 | 5.0 | -63 | ±62 | | 8.2 | -39 | ±41 | | 7.9 | -37 | ±41 |
| White-tailed jackrabbit | | 0.4 | 0.2 | -50 | ±239 | | 0.2 | 11 | ±269 | | 0.7 | -71 | ±74 |
| White-tailed deer | | 15.4 | 24.8 | 61 | ±43 | | 15.3 | 62 | ±46 | | 8.5 | 192 | ±107 |
| Mourning dove | | 244.9 | 223.8 | -9 | ±21 | | 199.3 | 12 | ±26 | | 229.0 | -2 | ±25 |

^a Based on routes (*n*) surveyed in both years.

^b Based on routes (*n*) surveyed at least 9 of 10 years.

^c LTA = 1955-2003, except for Northwest region (1982-2003) and white-tailed deer (1974-2003). Estimates based on routes (*n*) surveyed ≥40 years (1955-2003), except for Northwest (≥20 years) and white-tailed deer (≥25 years).

^d Eight Northwestern counties (19 routes) were added to August roadside survey in 1982.

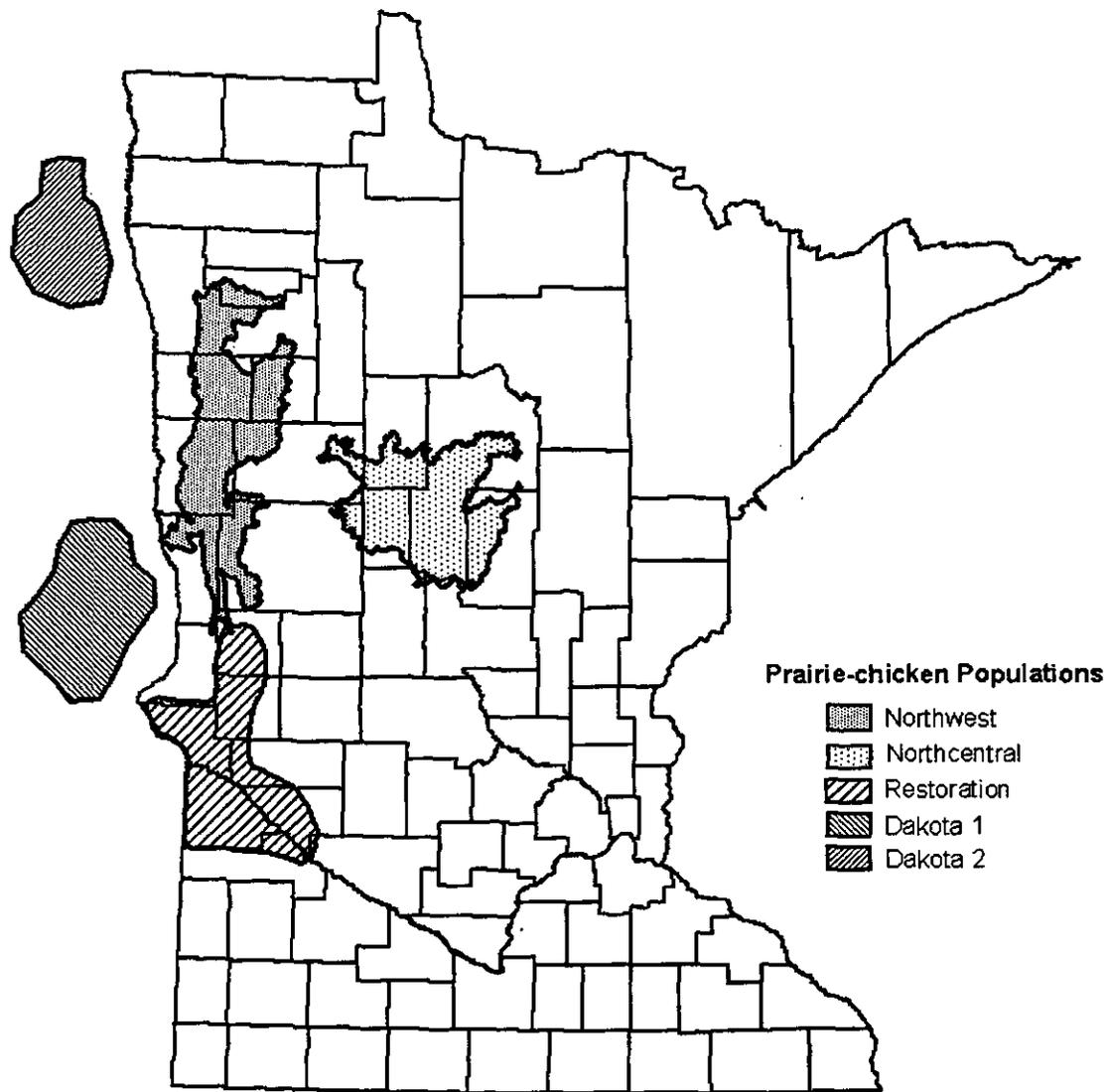


Figure 9. Distribution of greater prairie-chicken populations in Minnesota and adjacent populations in North and South Dakota. Delineations for the Northwest and Northcentral populations were based on ecological Land Type Associations and historic lek locations (1964-1999); delineations of other populations were based on an unpublished map.

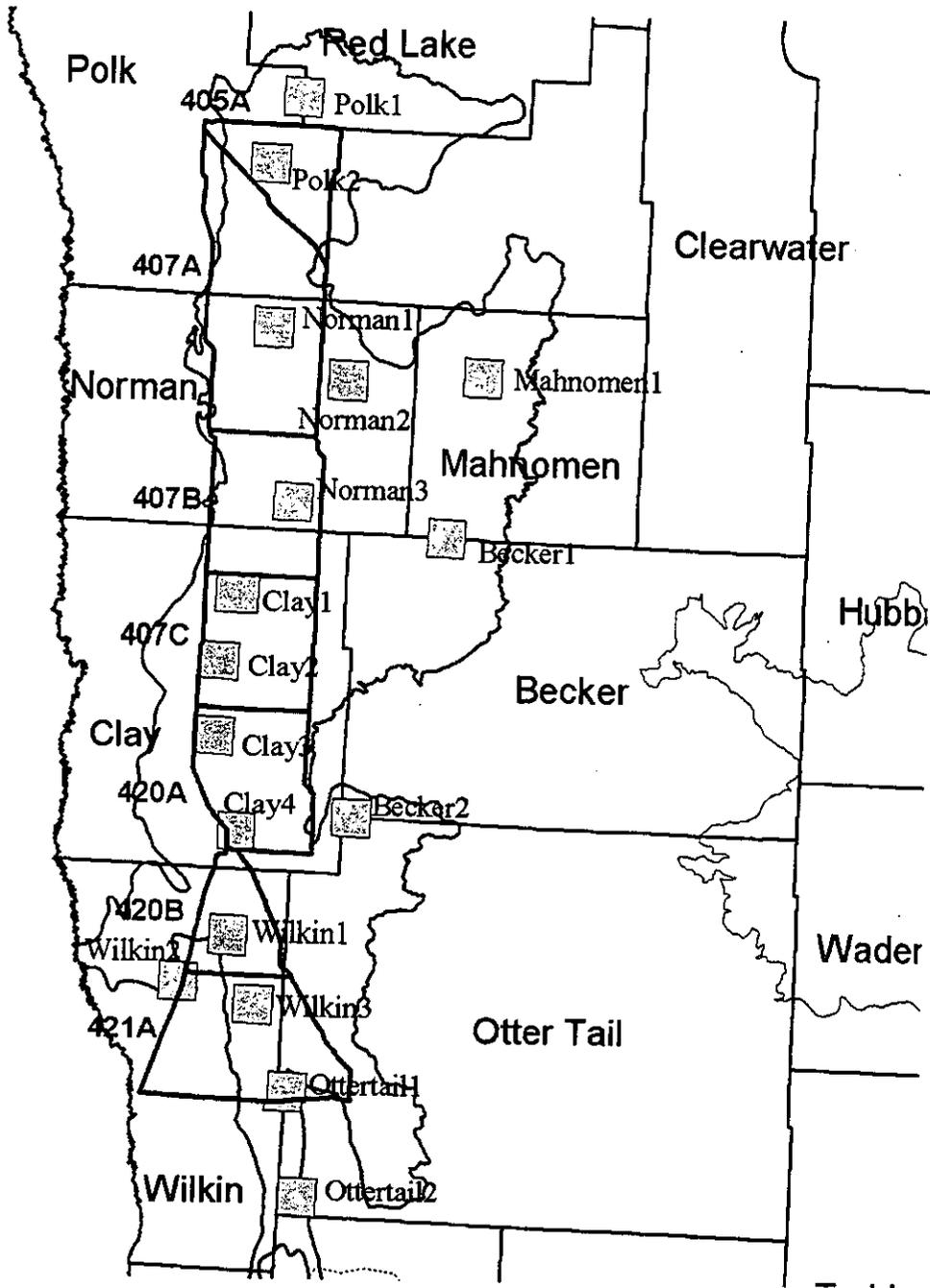


Figure 10. Distribution of 17 census blocks and 7 permit zones in Minnesota's northwest prairie-chicken range. Each census block is approximately 16 mi².

Table 4. Prairie-chicken leks and males/lek by census block, Minnesota, 1976-2004^a.

| Census block | 2004 | | 2002 ^b | | 10-yr average (1993-2002) | | | | | Long-term average (1976-2002) | | | | |
|----------------------|------|------------|-------------------|------------|---------------------------|------|-----------------|------------|-----------------|-------------------------------|------|-----------------|------------|-----------------|
| | Leks | Males /lek | Leks | Males /lek | n (yrs) | Leks | SE ^c | Males /lek | SE ^c | n (yrs) | Leks | SE ^c | Males /lek | SE ^c |
| Becker1 | 4 | 5.3 | 2 | 9.0 | 6 | 2.5 | 0.4 | 9.7 | 0.7 | 21 | 3.7 | 0.4 | 11.8 | 1.0 |
| Becker2 | 6 | 10.5 | 3 | 14.0 | 5 | 2.4 | 0.4 | 10.9 | 1.5 | 5 | 2.4 | 0.4 | 10.9 | 1.5 |
| Clay1 | 8 | 19.9 | 5 | 14.6 | 10 | 4.1 | 0.3 | 11.5 | 1.0 | 27 | 4.3 | 0.3 | 12.3 | 0.7 |
| Clay2 | 2 | 62.0 | 2 | 35.5 | 10 | 3.8 | 0.3 | 14.8 | 2.6 | 25 | 2.9 | 0.3 | 13.8 | 1.2 |
| Clay3 | 8 | 28.4 | 10 | 13.9 | 10 | 5.9 | 0.7 | 12.6 | 1.1 | 20 | 4.1 | 0.6 | 11.4 | 0.9 |
| Clay4 | 6 | 15.7 | 4 | 16.0 | 10 | 2.8 | 0.2 | 10.4 | 1.1 | 15 | 2.3 | 0.3 | 8.8 | 1.0 |
| Mahnomen1 | 3 | 7.7 | 1 | 25.0 | 7 | 1.0 | 0.0 | 13.1 | 2.3 | 22 | 2.3 | 0.3 | 11.2 | 1.0 |
| Norman1 | 1 | 8.0 | 2 | 11.0 | 10 | 1.2 | 0.1 | 11.1 | 1.0 | 15 | 1.3 | 0.2 | 9.9 | 1.0 |
| Norman2 | 14 | 7.7 | 5 | 8.8 | 8 | 2.9 | 0.4 | 10.3 | 1.1 | 8 | 2.9 | 0.4 | 10.3 | 1.1 |
| Norman3 | 6 | 11.3 | 8 | 8.5 | 10 | 4.6 | 0.4 | 9.1 | 0.6 | 27 | 4.1 | 0.2 | 16.1 | 1.8 |
| Ottertail1 | 3 | 15.7 | 2 | 19.0 | 10 | 2.0 | 0.3 | 10.2 | 1.5 | 23 | 1.6 | 0.2 | 6.8 | 0.9 |
| Ottertail2 | 3 | 21.7 | 2 | 16.5 | 8 | 1.6 | 0.2 | 8.0 | 1.8 | 12 | 1.5 | 0.2 | 6.8 | 1.3 |
| Polk1 | 7 | 13.9 | 4 | 11.8 | 10 | 3.0 | 0.5 | 8.4 | 0.9 | 20 | 2.6 | 0.4 | 7.0 | 0.7 |
| Polk2 | 7 | 15.0 | 5 | 8.4 | 10 | 4.8 | 0.2 | 10.9 | 0.6 | 27 | 3.6 | 0.2 | 9.7 | 0.5 |
| Wilkin1 | 10 | 21.5 | 6 | 21.7 | 10 | 5.1 | 0.5 | 18.7 | 1.0 | 25 | 4.6 | 0.3 | 16.0 | 0.8 |
| Wilkin2 | 2 | 14.0 | 2 | 9.0 | 9 | 2.3 | 0.3 | 8.8 | 1.0 | 19 | 1.7 | 0.2 | 9.7 | 1.4 |
| Wilkin3 | 5 | 22.8 | 6 | 19.2 | 9 | 4.2 | 0.3 | 18.0 | 1.0 | 25 | 3.4 | 0.3 | 16.5 | 1.1 |
| Average ^d | 5.6 | 17.7 | 4.1 | 15.4 | | 3.2 | 0.3 | 11.5 | 0.7 | | 2.9 | 0.3 | 11.1 | 0.7 |

^a Survey effort was variable from 1976-2003 and, thus, block-years with leks = 0 could represent true zeros or lack of survey effort. Therefore, ten-year and long-term averages included only block-years with at least 1 lek observation. Likewise, leks with males = 1 and leks heard but not visited were excluded from the analysis.

^b Most recent year for which data were available for comparison.

^c Does not include within-year variation (among leks).

^d Mean and SE of row estimates.

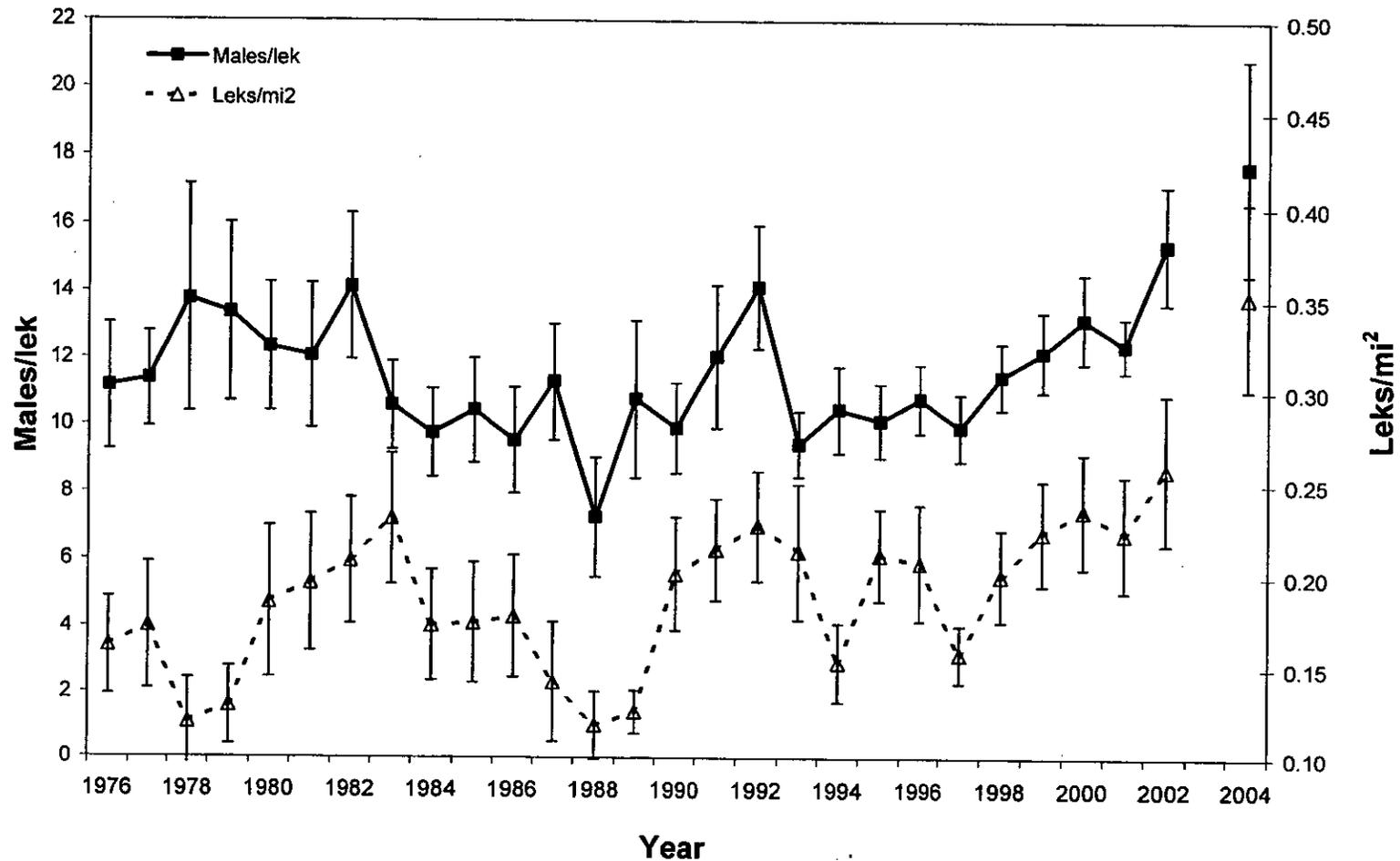


Figure 11. Mean (± 1 SE) males/lek and leks/mi² based on census-block counts, Minnesota, 1976-2004. Survey effort varied prior to 2004; therefore, only census blocks with at least 1 lek observation/year were used in the analysis. Census blocks (n) with at least 1 lek observation ranged from 8 in 1988 to 17 in 2004. Leks with males=1 and leks heard but not visited were excluded from the analysis. Absolute differences among years should be interpreted cautiously.

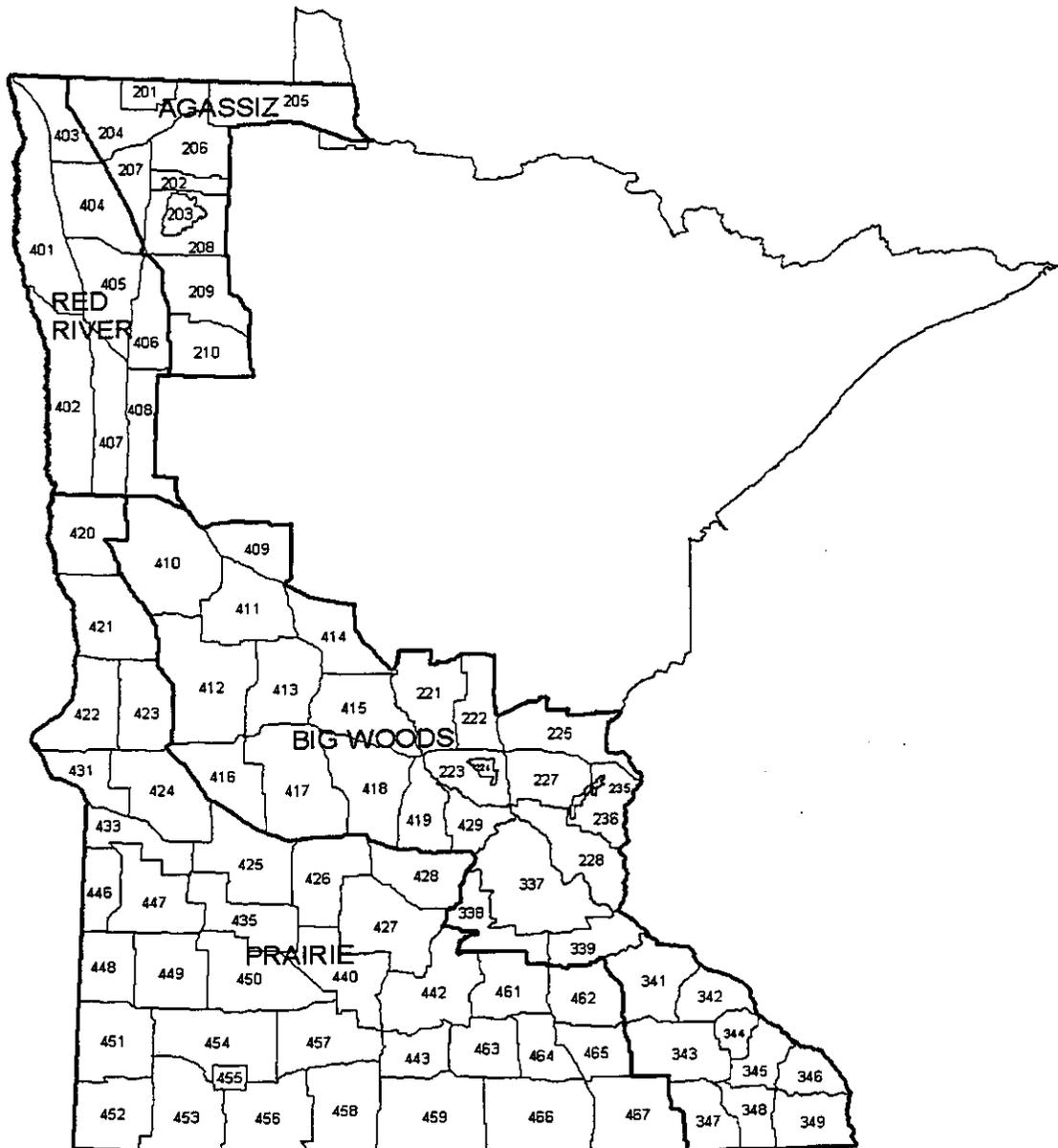


Figure 12. Deer Permit Areas in Minnesota's Farmland zone, 2003.

Table 5. Reproductive Performance of white-tailed deer in Minnesota for the Northwest^a Deer Management Unit, 1980-2004.

| Year | Fawns | | | Adults | | |
|---------------|-------|------------------|-----------------|--------|------------------|-----------------|
| | N | Percent Pregnant | Fetuses per doe | N | Percent Pregnant | Fetuses per doe |
| 1980 | 8 | 50 | 0.6 | 12 | 92 | 1.7 |
| 1981 | 4 | 0 | 0.0 | 11 | 100 | 1.7 |
| 1982 | 6 | 67 | 0.7 | 18 | 94 | 1.8 |
| 1983 | 15 | 27 | 0.3 | 26 | 85 | 1.6 |
| 1984 | 10 | 40 | 0.6 | 23 | 87 | 1.7 |
| 1985 | 6 | 17 | 0.2 | 11 | 91 | 1.7 |
| 1986 | 3 | 0 | 0.0 | 6 | 83 | 1.3 |
| 1987 | 3 | 0 | 0.0 | 5 | 100 | 1.6 |
| 1988 | 3 | 33 | 0.3 | 4 | 50 | 0.8 |
| 1989 | 14 | 21 | 0.3 | 27 | 93 | 1.7 |
| 1990 | 18 | 22 | 0.2 | 29 | 93 | 1.7 |
| 1991 | 11 | 9 | 0.1 | 15 | 87 | 1.6 |
| 1992 | 13 | 8 | 0.1 | 24 | 96 | 1.6 |
| 1993 | 7 | 0 | 0.0 | 11 | 100 | 1.6 |
| 1994 | 7 | 14 | 0.1 | 13 | 92 | 1.4 |
| 1995 | 4 | 25 | 0.3 | 6 | 100 | 2.0 |
| 1996 | 5 | 0 | 0.0 | 21 | 81 | 1.3 |
| 1997 | 4 | 0 | 0.0 | 12 | 100 | 1.5 |
| 1998 | 3 | 0 | 0.0 | 7 | 86 | 1.6 |
| 1999 | 5 | 0 | 0.0 | 14 | 100 | 1.6 |
| 2000 | 7 | 14 | 0.1 | 11 | 100 | 2.0 |
| 2001 | 4 | 0 | 0.0 | 8 | 100 | 1.8 |
| 2002 | 7 | 14 | 0.1 | 13 | 100 | 1.8 |
| 2003 | 0 | 0 | 0.0 | 3 | 100 | 1.7 |
| 2004 | 2 | 50 | 0.5 | 2 | 100 | 2.0 |
| Mean (1980's) | | 26 | 0.3 | | 88 | 1.6 |
| Mean (1990's) | | 8 | 0.1 | | 94 | 1.6 |
| Mean (2000's) | | 16 | 0.2 | | 100 | 1.8 |

^a Red River (East and West) and Agassiz Deer Management Units were combined into the Northwest Deer Management Unit due to small sample sizes.

Table 6. Reproductive performance of white-tailed deer in Minnesota for the Big Woods Deer Management Unit ^a, 1978-2004.

| Year | Fawns | | | Adults | | |
|---------------|-------|------------------|-----------------|--------|------------------|-----------------|
| | N | Percent Pregnant | Fetuses per doe | N | Percent Pregnant | Fetuses per doe |
| 1978 | 74 | 47 | 0.5 | 113 | 96 | 1.8 |
| 1979 | 87 | 30 | 0.3 | 119 | 92 | 1.7 |
| 1980 | 87 | 61 | 0.7 | 107 | 97 | 1.8 |
| 1981 | 78 | 58 | 0.6 | 132 | 92 | 1.7 |
| 1982 | 95 | 43 | 0.5 | 197 | 95 | 1.8 |
| 1983 | 83 | 55 | 0.7 | 167 | 95 | 1.8 |
| 1984 | 77 | 22 | 0.3 | 123 | 95 | 1.8 |
| 1985 | 60 | 50 | 0.6 | 105 | 96 | 1.8 |
| 1986 | 79 | 37 | 0.4 | 116 | 88 | 1.6 |
| 1987 | 45 | 44 | 0.5 | 146 | 94 | 1.8 |
| 1988 | 14 | 64 | 0.8 | 31 | 97 | 1.8 |
| 1989 | 51 | 31 | 0.3 | 85 | 96 | 1.8 |
| 1990 | 96 | 32 | 0.3 | 125 | 95 | 1.8 |
| 1991 | 50 | 20 | 0.2 | 71 | 96 | 1.8 |
| 1992 | 67 | 24 | 0.3 | 100 | 95 | 1.8 |
| 1993 | 47 | 38 | 0.4 | 95 | 93 | 1.7 |
| 1994 | 46 | 15 | 0.2 | 99 | 94 | 1.7 |
| 1995 | 21 | 19 | 0.2 | 54 | 91 | 1.8 |
| 1996 | 59 | 15 | 0.2 | 112 | 96 | 1.8 |
| 1997 | 40 | 33 | 0.4 | 96 | 88 | 1.6 |
| 1998 | 53 | 23 | 0.3 | 109 | 91 | 1.7 |
| 1999 | 49 | 37 | 0.4 | 95 | 91 | 1.6 |
| 2000 | 62 | 23 | 0.3 | 76 | 91 | 1.6 |
| 2001 | 36 | 14 | 0.1 | 65 | 94 | 1.7 |
| 2002 | 70 | 23 | 0.3 | 97 | 95 | 1.8 |
| 2003 | 66 | 20 | 0.2 | 90 | 95 | 1.6 |
| 2004 | 65 | 20 | 0.2 | 60 | 88 | 1.6 |
| Mean (1980's) | | 47 | 0.5 | | 95 | 1.8 |
| Mean (1990's) | | 26 | 0.3 | | 93 | 1.7 |
| Mean (2000's) | | 20 | 0.2 | | 93 | 1.7 |

^a The majority of samples (approximately 85%) from this Deer Management Unit were obtained from the Big Woods Metro sub-unit. Consequently, the data reported in this table may not reflect reproductive performances throughout the remainder of the Big Woods Management Unit.

Table 7. Reproductive performance of white-tailed deer in Minnesota for the Prairie Deer Management Unit, 1978-2004.

| Year | Fawns | | | Adults | | |
|---------------|-------|------------------|-----------------|--------|------------------|-----------------|
| | N | Percent Pregnant | Fetuses per doe | N | Percent Pregnant | Fetuses per doe |
| 1978 | 25 | 44 | 0.6 | 69 | 100 | 1.9 |
| 1979 | 83 | 34 | 0.4 | 92 | 90 | 1.8 |
| 1980 | 51 | 63 | 0.7 | 55 | 91 | 1.7 |
| 1981 | 57 | 44 | 0.5 | 65 | 92 | 1.8 |
| 1982 | 50 | 46 | 0.6 | 85 | 94 | 1.9 |
| 1983 | 42 | 62 | 0.9 | 51 | 96 | 1.9 |
| 1984 | 30 | 23 | 0.3 | 69 | 84 | 1.6 |
| 1985 | 21 | 38 | 0.4 | 49 | 94 | 1.9 |
| 1986 | 25 | 64 | 0.8 | 56 | 93 | 1.7 |
| 1987 | 27 | 52 | 0.6 | 47 | 94 | 0.9 |
| 1988 | 20 | 40 | 0.5 | 16 | 100 | 1.9 |
| 1989 | 37 | 38 | 0.4 | 54 | 89 | 1.7 |
| 1990 | 43 | 42 | 0.4 | 62 | 97 | 1.8 |
| 1991 | 30 | 20 | 0.2 | 67 | 94 | 1.8 |
| 1992 | 37 | 19 | 0.2 | 51 | 94 | 1.9 |
| 1993 | 39 | 38 | 0.4 | 75 | 93 | 1.8 |
| 1994 | 32 | 16 | 0.2 | 46 | 98 | 1.9 |
| 1995 | 39 | 21 | 0.3 | 50 | 92 | 1.7 |
| 1996 | 28 | 14 | 0.1 | 30 | 90 | 1.6 |
| 1997 | 26 | 4 | 0.0 | 49 | 92 | 1.7 |
| 1998 | 18 | 17 | 0.2 | 38 | 97 | 1.7 |
| 1999 | 26 | 19 | 0.2 | 47 | 96 | 1.7 |
| 2000 | 13 | 23 | 0.4 | 23 | 87 | 1.6 |
| 2001 | 18 | 6 | 0.1 | 39 | 87 | 1.5 |
| 2002 | 19 | 32 | 0.4 | 26 | 92 | 1.7 |
| 2003 | 18 | 22 | 0.2 | 123 | 93 | 1.7 |
| 2004 | 10 | 10 | 0.1 | 9 | 89 | 1.7 |
| Mean (1980's) | | 47 | 0.5 | | 93 | 1.7 |
| Mean (1990's) | | 21 | 0.2 | | 94 | 1.8 |
| Mean (2000's) | | 19 | 0.2 | | 90 | 1.7 |

Table 8. Pre-fawning deer density estimates ^a (deer/mi²) by deer management unit (DMU), sub-unit (DMSU), and permit area (PA) in Minnesota's Farmland Zone, 1993-2004.

| DMU | DMSU | PA | Area mi ² | Pre-fawning density | | | | | | | | | | | |
|------------------------|-------------|-------|-------------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| RED RIVER | | | | | | | | | | | | | | | |
| | <i>West</i> | 401 | 1039 | 2.1 | 2.2 | 2.5 | 2.3 | 2.0 | 2.0 | 2.0 | 2.1 | 2.2 | 2.2 | 2.3 | 2.4 |
| | | 402 | 1021 | 3.3 | 3.5 | 3.8 | 3.6 | 3.3 | 3.6 | 3.9 | 4.1 | 4.5 | 4.4 | 4.5 | 4.3 |
| | | Total | 2060 | 2.7 | 2.8 | 3.2 | 2.9 | 2.6 | 2.8 | 2.9 | 3.1 | 3.3 | 3.3 | 3.4 | 3.3 |
| | <i>East</i> | 403 | 396 | 6.2 | 6.3 | 6.9 | 5.9 | 5.7 | 6.2 | 6.6 | 7.1 | 7.5 | 7.9 | 8.1 | 7.8 |
| | | 404 | 631 | 7.0 | 7.1 | 7.8 | 7.0 | 6.5 | 7.1 | 7.5 | 7.9 | 8.3 | 8.4 | 8.8 | 8.7 |
| | | 405 | 654 | 6.5 | 6.6 | 7.1 | 6.3 | 5.9 | 6.4 | 6.9 | 7.4 | 7.8 | 7.6 | 7.7 | 7.2 |
| | | 406 | 413 | 11.0 | 11.8 | 13.4 | 12.1 | 10.8 | 11.4 | 12.0 | 12.9 | 13.4 | 13.1 | 13.4 | 13.1 |
| | | 407 | 618 | 8.5 | 8.5 | 9.1 | 8.1 | 7.5 | 7.7 | 8.0 | 8.8 | 9.2 | 9.4 | 9.1 | 8.6 |
| | | 408 | 494 | 8.0 | 8.1 | 8.4 | 7.3 | 6.9 | 7.2 | 7.3 | 7.9 | 8.4 | 8.8 | 9.0 | 8.7 |
| | | Total | 3206 | 7.8 | 7.9 | 8.6 | 7.6 | 7.1 | 7.5 | 7.9 | 8.5 | 9.0 | 9.0 | 9.2 | 8.8 |
| <u>Red River Total</u> | | | 5266 | 5.8 | 5.9 | 6.5 | 5.8 | 5.3 | 5.7 | 5.9 | 6.4 | 6.8 | 6.8 | 6.9 | 6.7 |
| AGASSIZ | | | | | | | | | | | | | | | |
| | | 201 | 155 | 5.9 | 4.7 | 3.4 | 2.1 | 1.7 | 2.2 | 2.7 | 3.2 | 3.8 | 4.0 | 3.8 | 4.1 |
| | | 202 | 156 | 11.9 | 10.8 | 10.3 | 7.9 | 6.8 | 8.2 | 9.5 | 10.9 | 12.1 | 12.3 | 12.4 | 11.5 |
| | | 203 | 108 | 11.4 | 9.0 | 6.8 | 3.1 | 2.7 | 3.6 | 4.5 | 5.7 | 7.2 | 8.9 | 11.0 | 12.1 |
| | | 204 | 718 | 8.1 | 7.9 | 7.9 | 6.5 | 5.7 | 6.4 | 6.9 | 7.4 | 7.8 | 7.9 | 8.5 | 8.5 |
| | | 205 | 642 | 12.5 | 12.6 | 12.5 | 10.1 | 8.6 | 10.0 | 11.0 | 12.2 | 13.0 | 13.9 | 14.1 | 12.0 |
| | | 206 | 471 | 9.6 | 9.2 | 9.6 | 8.1 | 7.2 | 8.2 | 9.4 | 10.9 | 12.4 | 13.3 | 13.9 | 13.9 |
| | | 207 | 300 | 8.7 | 7.9 | 7.5 | 6.0 | 5.5 | 6.1 | 6.7 | 7.2 | 7.6 | 7.7 | 7.9 | 6.6 |
| | | 208 | 448 | 4.2 | 3.9 | 3.5 | 2.6 | 2.4 | 2.9 | 3.4 | 3.9 | 4.2 | 4.3 | 4.6 | 4.3 |
| | | 209 | 576 | 6.0 | 6.0 | 6.3 | 5.4 | 5.1 | 5.7 | 6.0 | 6.4 | 6.7 | 6.8 | 7.0 | 6.8 |
| | | 210 | 485 | 11.3 | 11.5 | 12.0 | 10.7 | 10.2 | 11.2 | 12.1 | 13.0 | 13.9 | 14.7 | 15.8 | 16.4 |
| <u>Agassiz Total</u> | | | 4059 | 8.6 | 8.3 | 8.3 | 6.8 | 6.2 | 7.1 | 7.8 | 8.6 | 9.3 | 9.8 | 10.2 | 9.8 |

Table 8 (cont.)

| DMU | DMSU | PA | Area mi ² | Pre-fawning density | | | | | | | | | | | |
|------------------|---------------------------|-------|-------------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| BIG WOODS | | | | | | | | | | | | | | | |
| | <i>North</i> | 409 | 417 | 23.4 | 25.6 | 29.0 | 30.9 | 29.7 | 29.3 | 31.7 | 35.4 | 35.5 | 36.7 | 39.1 | 40.1 |
| | | 410 | 924 | 13.0 | 13.2 | 13.8 | 13.5 | 12.9 | 13.1 | 14.5 | 15.7 | 16.4 | 17.1 | 18.2 | 18.7 |
| | | 411 | 642 | 18.5 | 19.2 | 20.8 | 20.8 | 20.3 | 21.1 | 22.7 | 24.7 | 26.1 | 27.2 | 29.2 | 30.5 |
| | | 412 | 989 | 10.5 | 10.3 | 10.5 | 10.0 | 9.2 | 9.0 | 9.5 | 9.6 | 9.4 | 9.5 | 10.1 | 10.2 |
| | | 413 | 644 | 13.2 | 13.7 | 14.8 | 14.9 | 14.3 | 14.8 | 15.4 | 16.8 | 17.9 | 18.7 | 19.4 | 19.7 |
| | | 414 | 557 | 15.3 | 16.0 | 17.6 | 17.9 | 18.4 | 18.8 | 19.9 | 21.2 | 22.1 | 23.7 | 26.2 | 26.9 |
| | | 415 | 702 | 8.4 | 8.8 | 9.4 | 9.3 | 8.9 | 8.8 | 9.1 | 9.4 | 9.4 | 9.6 | 9.9 | 9.0 |
| | | 416 | 544 | 9.3 | 9.7 | 9.8 | 9.9 | 9.3 | 9.1 | 9.1 | 8.9 | 8.9 | 8.9 | 9.7 | 9.8 |
| | | 417 | 939 | 9.1 | 9.0 | 9.3 | 9.6 | 8.7 | 8.0 | 7.9 | 7.8 | 7.7 | 8.0 | 8.6 | 8.4 |
| | | 418 | 760 | 7.7 | 7.6 | 7.9 | 7.8 | 7.2 | 7.0 | 7.3 | 7.1 | 7.1 | 7.3 | 8.0 | 7.7 |
| | | 419 | 393 | 9.0 | 9.4 | 9.6 | 9.6 | 8.9 | 7.7 | 7.8 | 8.5 | 8.8 | 9.2 | 10.3 | 10.9 |
| | | 429 | 288 | 5.3 | 5.5 | 5.3 | 5.4 | 5.1 | 4.8 | 5.1 | 5.6 | 5.9 | 6.3 | 7.0 | 7.2 |
| | | Total | 7799 | 11.7 | 12.1 | 12.8 | 12.9 | 12.3 | 12.2 | 12.9 | 13.6 | 14.0 | 14.5 | 15.6 | 15.8 |
| | <i>Central</i> | 221 | 642 | 8.7 | 8.7 | 9.4 | 9.4 | 9.4 | 9.8 | 10.5 | 11.5 | 11.3 | 11.9 | 12.5 | 12.4 |
| | | 222 | 412 | 12.8 | 12.4 | 13.4 | 12.9 | 12.7 | 13.2 | 13.8 | 14.4 | 14.2 | 14.6 | 14.9 | 13.9 |
| | | 223 | 376 | 12.3 | 12.7 | 13.4 | 12.9 | 12.7 | 12.5 | 12.5 | 13.3 | 13.4 | 13.8 | 14.8 | 14.8 |
| | | 224 | 48 | 13.1 | 13.6 | 14.5 | 13.9 | 14.5 | 15.4 | 15.4 | 16.2 | 17.1 | 17.7 | 18.5 | 16.7 |
| | | 225 | 619 | 17.8 | 17.4 | 18.7 | 17.8 | 17.9 | 17.6 | 18.2 | 18.7 | 18.9 | 19.1 | 20.3 | 20.3 |
| | | Total | 2097 | 12.9 | 12.9 | 13.7 | 13.3 | 13.3 | 13.4 | 13.9 | 14.6 | 14.7 | 15.0 | 15.8 | 15.6 |
| | <i>Metro</i> ^b | 227 | 472 | 15.4 | 15.5 | 16.4 | 12.9 | 12.9 | 12.8 | 13.4 | 13.7 | 14.5 | 15.3 | 17.7 | 19.6 |
| | | 235 | 33 | 12.5 | 11.7 | 11.3 | 9.5 | 9.6 | 9.9 | 12.1 | 12.9 | 14.8 | 17.5 | 22.7 | 25.2 |
| | | 236 | 374 | 15.0 | 15.3 | 16.0 | 16.4 | 16.2 | 15.6 | 16.5 | 17.3 | 18.5 | 20.4 | 23.4 | 26.0 |
| | | 338 | 452 | 4.5 | 4.2 | 4.1 | 4.1 | 3.6 | 3.2 | 3.2 | 3.4 | 3.7 | 4.1 | 5.2 | 6.0 |
| | | 339 | 395 | 5.0 | 5.1 | 5.0 | 4.8 | 4.2 | 3.5 | 3.7 | 3.8 | 3.9 | 4.1 | 4.7 | 5.3 |
| | | Total | 1726 | 9.5 | 9.5 | 9.8 | 9.5 | 9.2 | 8.7 | 9.2 | 9.5 | 10.1 | 10.9 | 12.8 | 14.3 |

Table 8. (cont.)

| DMU | DMSU | PA | Area mi ² | Pre-fawning density | | | | | | | | | | | |
|--------------------------|------------------------|-------|-------------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| BIG WOODS | | | | | | | | | | | | | | | |
| <i>Southeast (cont.)</i> | | 341 | 611 | 7.6 | 7.9 | 8.3 | 8.5 | 8.5 | 8.4 | 8.2 | 8.1 | 7.5 | 8.1 | 8.8 | 9.3 |
| | | 342 | 352 | 10.3 | 10.3 | 10.4 | 9.6 | 9.6 | 10.3 | 10.2 | 10.1 | 9.4 | 9.9 | 11.2 | 11.9 |
| | | 343 | 663 | 7.1 | 7.2 | 7.4 | 7.6 | 7.8 | 7.2 | 7.3 | 7.5 | 7.3 | 8.0 | 9.2 | 10.2 |
| | | 344 | 189 | 18.0 | 17.3 | 16.9 | 16.3 | 14.8 | 13.4 | 12.3 | 11.9 | 11.8 | 12.5 | 14.2 | 15.3 |
| | | 345 | 326 | 11.2 | 10.7 | 10.6 | 10.3 | 10.4 | 10.4 | 10.3 | 9.8 | 8.7 | 8.5 | 9.1 | 9.7 |
| | | 346 | 319 | 17.2 | 16.5 | 16.5 | 17.0 | 17.5 | 16.9 | 17.0 | 17.3 | 16.9 | 17.3 | 18.9 | 19.4 |
| | | 347 | 434 | 9.1 | 9.3 | 9.2 | 9.4 | 9.4 | 9.0 | 8.8 | 8.9 | 8.5 | 9.2 | 9.8 | 10.2 |
| | | 348 | 332 | 15.6 | 15.7 | 16.1 | 16.7 | 17.0 | 17.1 | 16.5 | 16.2 | 15.1 | 15.0 | 16.1 | 16.5 |
| | | 349 | 492 | 11.3 | 11.5 | 11.8 | 12.3 | 12.7 | 13.4 | 13.7 | 13.9 | 12.8 | 12.9 | 13.9 | 14.0 |
| | | Total | 3718 | 10.8 | 10.8 | 10.9 | 11.0 | 11.1 | 11.0 | 10.9 | 10.9 | 10.3 | 10.7 | 11.7 | 12.3 |
| | <u>Big Woods Total</u> | 15340 | 11.4 | 11.6 | 12.1 | 12.1 | 11.8 | 11.7 | 12.1 | 12.6 | 12.8 | 13.3 | 14.3 | 14.7 | |
| PRAIRIE | | | | | | | | | | | | | | | |
| <i>North</i> | | 420 | 651 | 4.2 | 3.9 | 3.8 | 3.7 | 3.2 | 3.0 | 3.4 | 3.7 | 3.8 | 3.6 | 3.9 | 3.8 |
| | | 421 | 749 | 3.5 | 3.3 | 3.2 | 3.0 | 2.5 | 2.3 | 2.4 | 2.4 | 2.5 | 2.3 | 2.6 | 2.7 |
| | | 422 | 634 | 2.9 | 2.6 | 2.5 | 2.4 | 2.0 | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 | 2.5 | 2.7 |
| | | 423 | 531 | 4.3 | 4.1 | 4.1 | 4.1 | 3.7 | 3.4 | 3.3 | 3.2 | 3.4 | 3.1 | 3.5 | 3.7 |
| | | 424 | 766 | 6.0 | 6.0 | 6.0 | 6.5 | 5.2 | 4.3 | 4.0 | 3.6 | 3.4 | 3.2 | 3.4 | 3.9 |
| | | 425 | 779 | 2.4 | 2.3 | 2.2 | 1.9 | 1.3 | 1.0 | 0.9 | 0.9 | 1.0 | 1.0 | 1.2 | 1.5 |
| | | 426 | 614 | 4.0 | 3.9 | 3.7 | 3.2 | 2.9 | 2.7 | 2.8 | 2.9 | 3.2 | 3.3 | 3.8 | 4.1 |
| | | 427 | 837 | 2.4 | 2.3 | 2.2 | 1.8 | 1.5 | 1.3 | 1.4 | 1.5 | 1.6 | 1.8 | 2.1 | 2.4 |
| | | 428 | 550 | 4.2 | 4.0 | 4.1 | 4.0 | 3.6 | 3.4 | 3.6 | 3.6 | 3.9 | 4.1 | 4.8 | 5.5 |
| | | Total | 6111 | 3.7 | 3.6 | 3.5 | 3.4 | 2.8 | 2.6 | 2.6 | 2.6 | 2.7 | 2.6 | 3.0 | 3.2 |
| <i>River</i> | | 431 | 360 | 63.8 | 7.0 | 6.9 | 7.7 | 6.8 | 6.1 | 5.7 | 5.0 | 4.6 | 4.4 | 4.5 | 4.8 |
| | | 433 | 397 | 9.5 | 9.9 | 10.3 | 10.4 | 9.3 | 8.8 | 8.3 | 8.2 | 7.9 | 7.7 | 8.9 | 9.1 |
| | | 435 | 575 | 5.9 | 5.7 | 5.8 | 6.0 | 5.2 | 4.9 | 4.7 | 4.6 | 4.5 | 4.4 | 4.9 | 5.4 |

Table 8 (cont.)

| DMU | DMSU | PA | Area mi ² | Pre-fawning density | | | | | | | | | | | |
|----------------------|-------|------|-------------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| PRAIRIE | | | | | | | | | | | | | | | |
| <i>River (cont.)</i> | 440 | 662 | 4.3 | 4.4 | 4.5 | 4.5 | 4.1 | 3.9 | 3.9 | 3.8 | 3.7 | 3.5 | 3.8 | 4.0 | |
| | 442 | 806 | 4.5 | 4.5 | 4.7 | 4.5 | 3.9 | 3.8 | 4.0 | 4.2 | 4.3 | 4.3 | 4.9 | 5.5 | |
| | 443 | 386 | 6.0 | 6.4 | 6.7 | 6.7 | 6.0 | 5.5 | 5.2 | 4.9 | 4.6 | 4.5 | 4.7 | 4.8 | |
| | Total | 3186 | 5.8 | 5.9 | 6.0 | 6.1 | 5.4 | 5.1 | 5.0 | 4.9 | 4.7 | 4.6 | 5.1 | 5.4 | |
| <i>Southwest</i> | | | | | | | | | | | | | | | |
| | 446 | 345 | 5.8 | 6.0 | 6.5 | 6.8 | 6.5 | 6.1 | 6.1 | 5.9 | 5.7 | 5.4 | 5.4 | 5.3 | |
| | 447 | 675 | 2.7 | 2.6 | 2.7 | 2.6 | 2.2 | 2.1 | 2.0 | 2.1 | 2.0 | 2.0 | 2.4 | 2.6 | |
| | 448 | 447 | 3.7 | 3.5 | 3.1 | 3.0 | 2.5 | 2.2 | 2.2 | 2.8 | 3.6 | 3.8 | 4.4 | 5.0 | |
| | 449 | 625 | 3.9 | 3.8 | 3.7 | 3.4 | 2.8 | 2.5 | 2.4 | 2.9 | 3.8 | 4.1 | 5.0 | 5.8 | |
| | 450 | 816 | 1.9 | 2.0 | 2.0 | 1.8 | 1.5 | 1.4 | 1.5 | 1.4 | 1.4 | 1.3 | 1.6 | 1.7 | |
| | 451 | 687 | 2.7 | 2.7 | 2.7 | 3.1 | 2.7 | 2.5 | 2.5 | 2.5 | 2.6 | 2.8 | 3.3 | 3.8 | |
| | 452 | 637 | 2.6 | 2.7 | 3.0 | 3.3 | 3.2 | 3.2 | 3.3 | 3.5 | 3.5 | 3.6 | 4.1 | 4.5 | |
| | 453 | 729 | 1.9 | 2.0 | 2.0 | 2.0 | 1.7 | 1.6 | 1.8 | 2.0 | 2.2 | 2.4 | 3.1 | 3.6 | |
| | 454 | 840 | 3.5 | 3.5 | 3.6 | 3.6 | 3.2 | 3.0 | 3.1 | 3.3 | 3.4 | 3.4 | 3.9 | 4.4 | |
| | 455 | 95 | 4.6 | 4.8 | 4.6 | 4.8 | 4.4 | 4.4 | 4.4 | 4.1 | 3.9 | 3.9 | 4.4 | 4.4 | |
| | 456 | 712 | 3.2 | 3.3 | 3.5 | 3.6 | 3.3 | 3.2 | 3.3 | 3.3 | 3.5 | 3.7 | 4.4 | 5.2 | |
| | 457 | 666 | 2.6 | 2.6 | 2.5 | 2.7 | 2.4 | 2.3 | 2.5 | 2.6 | 2.7 | 2.6 | 2.9 | 3.1 | |
| | 458 | 715 | 2.5 | 2.8 | 2.8 | 2.9 | 2.6 | 2.4 | 2.3 | 2.4 | 2.4 | 2.4 | 2.7 | 2.9 | |
| | 459 | 974 | 2.8 | 3.1 | 3.3 | 3.4 | 3.2 | 2.7 | 2.7 | 2.8 | 2.7 | 2.8 | 3.2 | 3.5 | |
| | Total | 8963 | 2.9 | 3.0 | 3.1 | 3.1 | 2.8 | 2.6 | 2.6 | 2.8 | 2.9 | 3.0 | 3.4 | 3.8 | |
| <i>Southeast</i> | | | | | | | | | | | | | | | |
| | 461 | 481 | 7.5 | 8.1 | 8.6 | 8.8 | 8.8 | 8.0 | 7.8 | 7.5 | 7.2 | 7.1 | 7.6 | 7.4 | |
| | 462 | 506 | 7.0 | 7.7 | 8.3 | 8.4 | 8.4 | 8.1 | 8.3 | 7.8 | 7.5 | 7.2 | 7.8 | 8.0 | |
| | 463 | 453 | 3.4 | 3.5 | 3.6 | 3.3 | 3.3 | 2.9 | 3.0 | 3.0 | 3.0 | 2.9 | 3.1 | 3.2 | |
| | 464 | 377 | 4.1 | 4.4 | 4.6 | 4.5 | 4.0 | 3.5 | 3.3 | 3.3 | 3.3 | 3.4 | 3.8 | 4.0 | |
| | 465 | 385 | 4.3 | 4.7 | 5.1 | 4.9 | 4.9 | 4.3 | 4.5 | 4.1 | 4.1 | 4.2 | 4.7 | 4.8 | |
| | 466 | 931 | 3.3 | 3.6 | 3.8 | 4.0 | 4.0 | 3.6 | 3.8 | 3.6 | 3.3 | 3.4 | 3.9 | 4.1 | |
| | 467 | 774 | 2.9 | 3.3 | 3.4 | 3.4 | 3.5 | 3.3 | 3.3 | 3.4 | 3.4 | 3.3 | 3.6 | 3.3 | |
| | Total | 3907 | 4.4 | 4.8 | 5.1 | 5.1 | 5.1 | 4.7 | 4.7 | 4.5 | 4.4 | 4.4 | 4.8 | 4.8 | |

Table 8 (cont.)

| DMU | DMSU | PA | Area mi ² | Pre-fawning density | | | | | | | | | | | |
|--------------------------------|------|----|-------------------------|---------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 |
| <u>Prairie Totals</u> | | | 22167 | 3.8 | 3.9 | 4.0 | 4.0 | 3.6 | 3.3 | 3.3 | 3.3 | 3.4 | 3.4 | 3.8 | 4.1 |
| <u>Farmland Zone Total</u> | | | 46832 | 6.9 | 7.0 | 7.3 | 7.1 | 6.7 | 6.6 | 6.9 | 7.2 | 7.3 | 7.5 | 8.2 | 8.4 |

^a Density estimates are subject to change as new data are incorporated or the model is revised.

^b Excluding permit areas 228 & 337, which are not modeled.

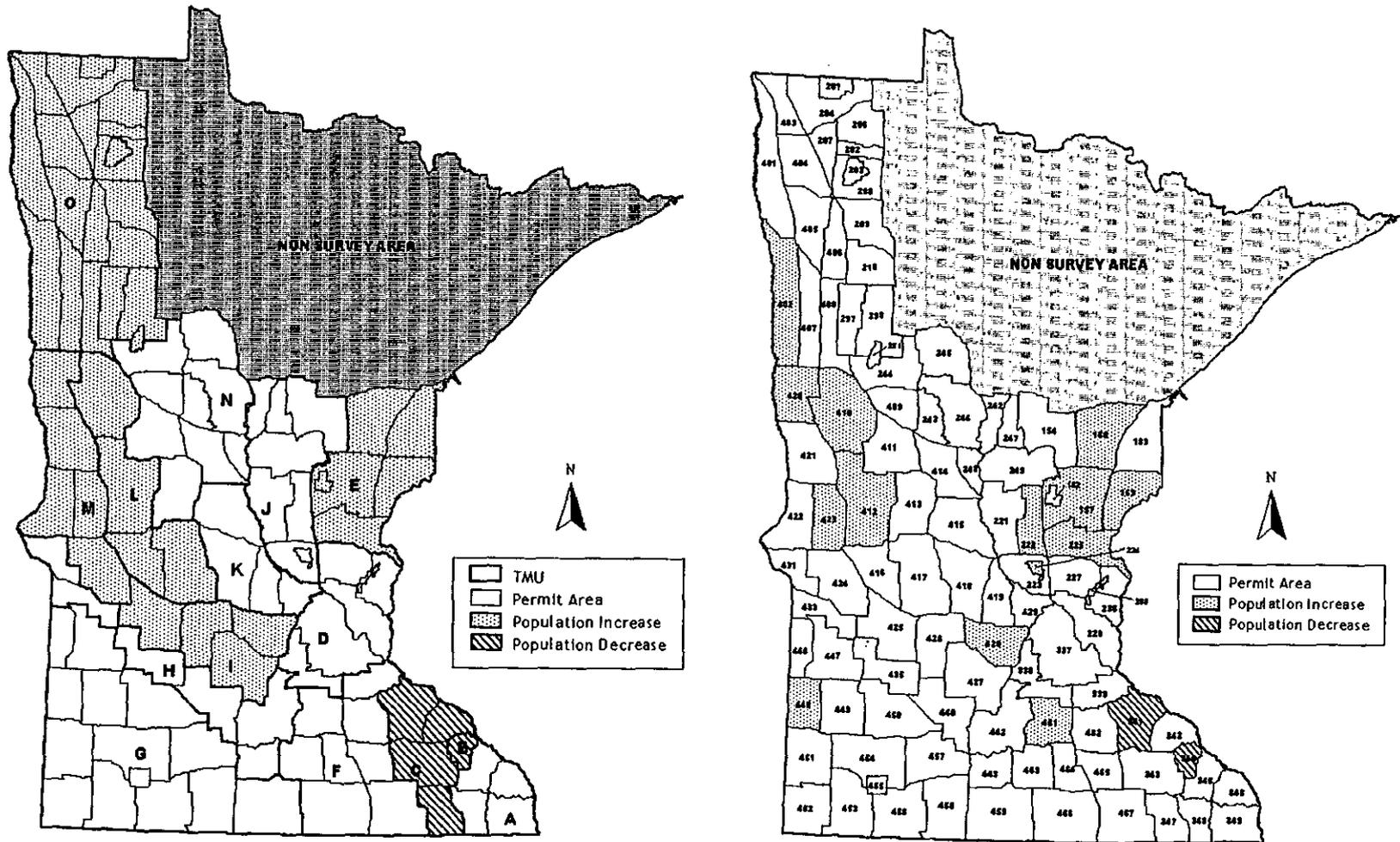


Figure 13. (a) Location of turkey management units (TMUs) and (b) antlerless deer permit areas for the wild turkey survey, Minnesota, Fall, 2002. Shaded areas had a significant increase, and barred areas had a significant decrease in hunters observing wild turkeys (HOWT population index).

Table 9. Percent of antlerless deer hunters observing wild turkeys (HOWT) in Minnesota. By turkey management unit (TMU), 1992-2002. *Note: No survey conducted in 1995, 1996, 1998, 2000, and 2001.*

| TMU | Year | Respondents (n) | HOWT | 99% CI on HOWT |
|-----|------|--------------------|-------------------|-------------------|
| A | 1992 | 629 | 62.8 | 7.0 |
| | 1993 | 637 | 64.8 | 7.0 |
| | 1994 | 618 | 61.2 | 7.0 |
| | 1997 | 571 | 64.1 | 7.2 |
| | 1999 | 591 | 72.8 ^a | 7.0 |
| | 2002 | 511 | 71.0 | 7.0 |
| B | 1992 | 473 | 62.4 | 13.0 |
| | 1993 | 467 | 53.1 ^b | 8.3 |
| | 1994 | 421 | 59.6 | 8.6 |
| | 1997 | 386 | 58.8 | 8.9 |
| | 1999 | 409 | 77.0 ^a | 8.4 |
| | 2002 | 314 | 62.7 ^b | 8.8 |
| C | 1992 | 632 | 52.4 | 7.6 |
| | 1993 | 637 | 57.6 | 7.2 |
| | 1994 | 615 | 55.0 | 7.2 |
| | 1997 | 556 | 64.9 ^a | 7.3 |
| | 1999 | 571 | 75.1 ^a | 7.0 |
| | 2002 | 525 | 65.3 ^b | 7.1 |
| D | 1992 | 563 | 17.1 | 5.9 |
| | 1993 | 633 | 17.4 | 5.6 |
| | 1994 | 633 | 19.3 | 5.6 |
| | 1997 | 576 | 38.0 ^a | 6.6 |
| | 1999 | 598 | 39.8 | 7.3 |
| | 2002 | 538 | 46.7 | 7.6 |
| E | 1992 | 581 | 3.4 | 2.8 |
| | 1993 | 647 | 7.1 ^a | 3.3 |
| | 1994 | 638 | 4.7 | 3.4 |
| | 1997 | 608 | 14.1 ^a | 4.2 |
| | 1999 | 609 | 11.8 | 5.0 |
| | 2002 | 532 | 18.8 ^a | 5.5 |

Table 9 (continued).

| TMU | Year | Respondents (<i>n</i>) | HOWT | 99% CI on HOWT |
|------|------|-----------------------------|-------------------|-------------------|
| F | 1992 | 583 | 19.0 ^a | 5.3 |
| | 1993 | 594 | 24.8 | 6.2 |
| | 1994 | 652 | 27.6 | 6.4 |
| | 1997 | 614 | 36.3 ^a | 6.7 |
| | 1999 | 612 | 46.1 ^a | 7.2 |
| | 2002 | 551 | 48.3 | 7.6 |
| | G | 1992 | 625 | 3.7 |
| 1993 | | 644 | 5.3 | 3.0 |
| 1994 | | 616 | 7.6 | 3.6 |
| 1997 | | 595 | 14.8 ^a | 4.7 |
| 1999 | | 617 | 21.1 ^a | 5.7 |
| 2002 | | 544 | 26.8 | 6.5 |
| H | | 1992 | 598 | 16.4 |
| | 1993 | 655 | 16.0 | 5.4 |
| | 1994 | 636 | 17.1 | 5.3 |
| | 1997 | 626 | 31.8 ^a | 6.1 |
| | 1999 | 615 | 45.0 ^a | 7.0 |
| | 2002 | 554 | 48.7 | 7.5 |
| | I | 1992 | 596 | 4.5 |
| 1993 | | 569 | 3.9 | 3.0 |
| 1994 | | 562 | 2.7 | 2.7 |
| 1997 | | 525 | 9.7 ^a | 3.8 |
| 1999 | | 471 | 18.3 ^a | 5.7 |
| 2002 | | 445 | 26.7 ^a | 7.1 |
| J | | 1992 | 560 | 2.1 |
| | 1993 | 609 | 1.6 | 2.1 |
| | 1994 | 539 | 4.6 ^a | 2.7 |
| | 1997 | 559 | 15.0 ^a | 4.5 |
| | 1999 | 589 | 14.6 | 5.4 |
| | 2002 | 543 | 16.6 | 5.6 |

Table 9 (continued).

| TMU | Year | Respondents (<i>n</i>) | HOWT | 99% CI on HOWT |
|-----|------|-----------------------------|------|-------------------|
| K | 1992 | 600 | 6.0 | 3.9 |
| | 1993 | 624 | 5.6 | 3.4 |
| | 1994 | 614 | 8.5 | 3.7 |
| | 1997 | 578 | 16.6 | ^a 4.9 |
| | 1999 | 612 | 26.5 | ^a 6.1 |
| | 2002 | 534 | 32.4 | 7.0 |
| L | 1992 | 653 | 1.7 | 2.0 |
| | 1993 | 687 | 2.5 | 2.0 |
| | 1994 | 667 | 4.2 | 2.5 |
| | 1997 | 675 | 10.1 | ^a 3.6 |
| | 1999 | 615 | 16.8 | ^a 4.9 |
| | 2002 | 589 | 29.2 | ^a 6.2 |
| M | 1992 | 578 | 2.9 | ^b 3.7 |
| | 1993 | 597 | 3.4 | 2.6 |
| | 1994 | 613 | 3.1 | 2.6 |
| | 1997 | 540 | 4.8 | 3.0 |
| | 1999 | 557 | 5.8 | 3.5 |
| | 2002 | 501 | 12.8 | ^a 4.6 |
| N | 1992 | 663 | 2.1 | 2.0 |
| | 1993 | 710 | 1.7 | 1.9 |
| | 1994 | 657 | 2.3 | 2.0 |
| | 1997 | 607 | 4.6 | 2.7 |
| | 1999 | 614 | 8.8 | ^a 3.7 |
| | 2002 | 578 | 13.0 | 4.7 |
| O | 1992 | 576 | 3.8 | 2.9 |
| | 1993 | 626 | 1.9 | 2.5 |
| | 1994 | 620 | 2.6 | 2.2 |
| | 1997 | 553 | 1.3 | 2.0 |
| | 1999 | 637 | 3.5 | 2.2 |
| | 2002 | 570 | 8.8 | ^a 3.6 |

^a Significant increase in HOWT from previous survey.

^b Significant decrease from previous survey.

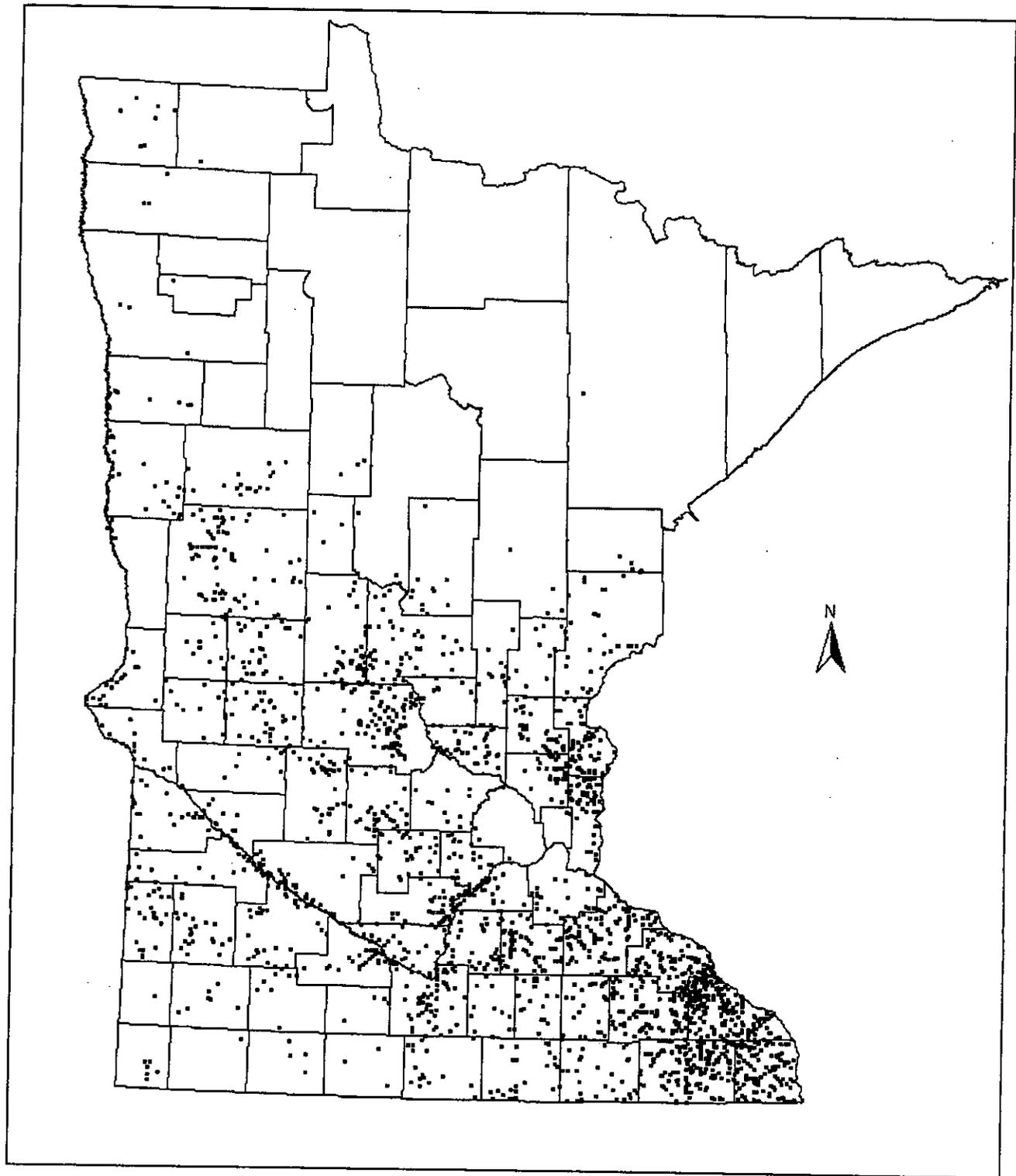


Figure 14. Distribution of wild turkey sightings based on a survey of antlerless deer hunters in Minnesota, fall 2002.

WILDLIFE DAMAGE COMPLAINTS

NOTE: Wildlife damage complaint information is collected statewide from wildlife managers. The data is compiled and summarized at the Farmland Wildlife Research Station, Route 1 Box 181, Madelia MN 56062.

Wildlife Complaints 1993-2003

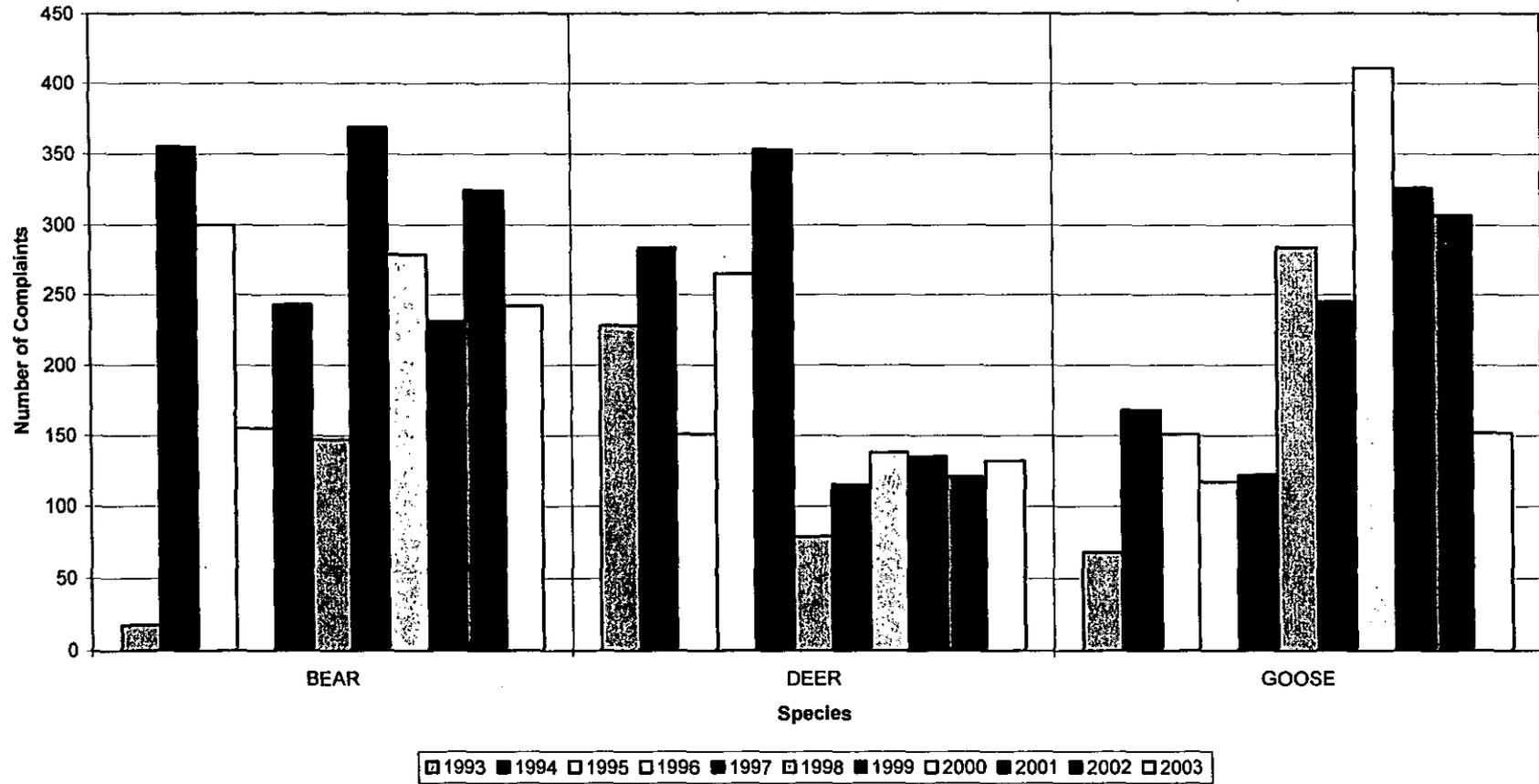


Figure 15. Number of wildlife complaints recorded by species from 1993-2003, in Minnesota.

Bear Complaints 1993-2003

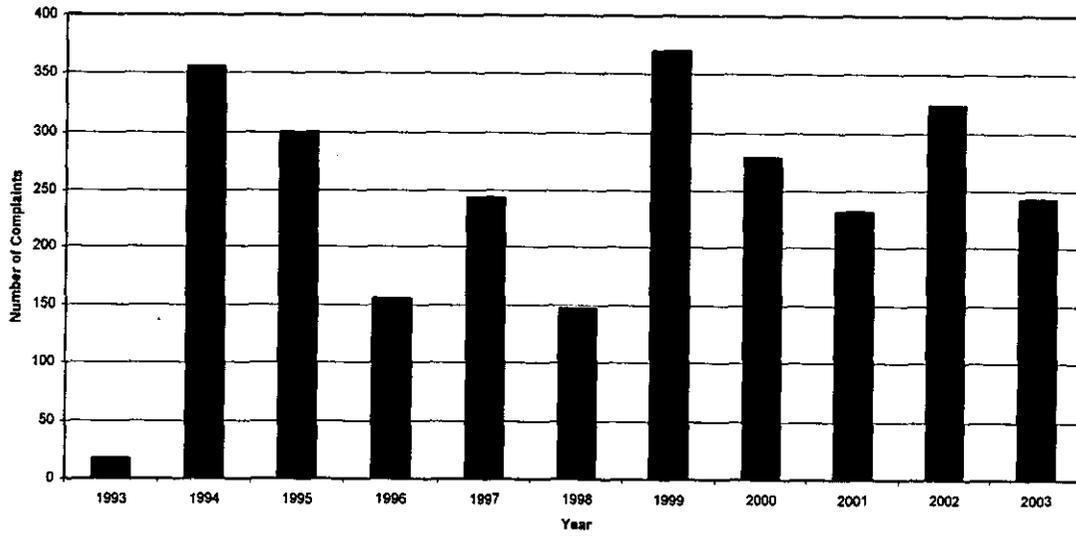


Figure 16. Number of bear complaints from 1993-2003, in Minnesota.

Deer Complaints 1993-2003

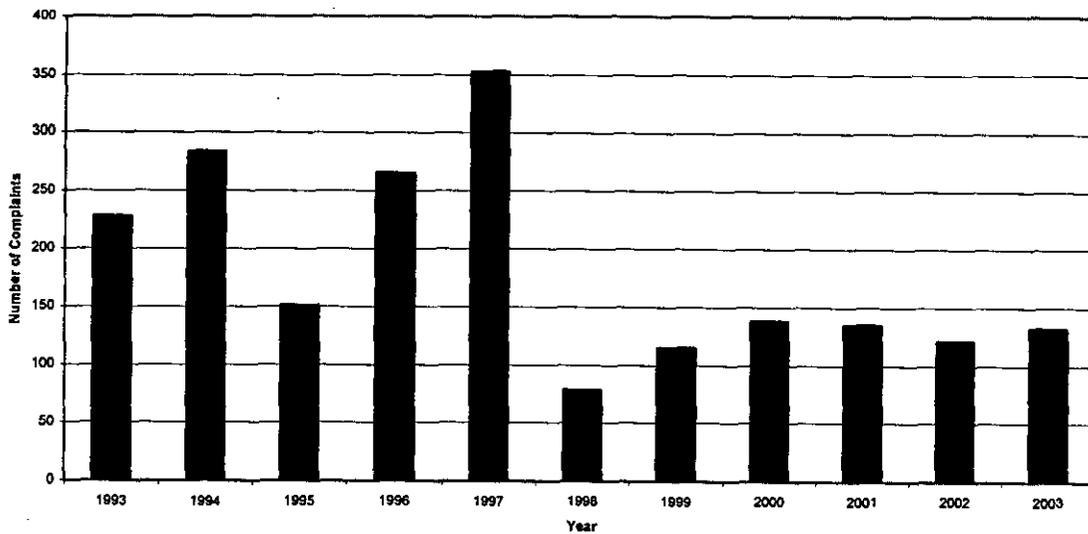


Figure 17. Number of deer complaints from 1993-2003, in Minnesota.

Goose Complaints 1993-2003

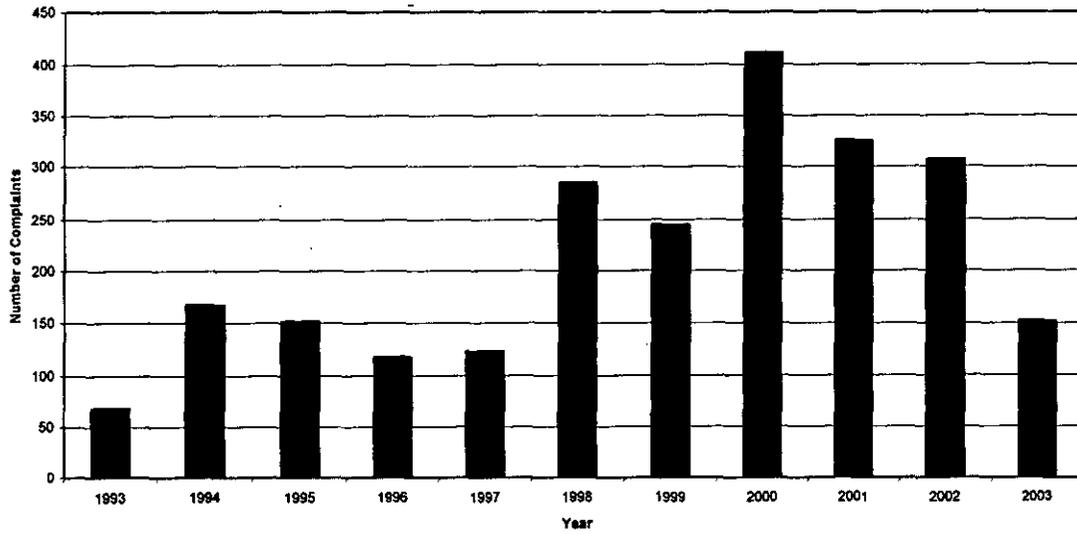


Figure 18. Number of goose complaints from 1993-2003, in Minnesota.

Turkey Complaints 1993-2003

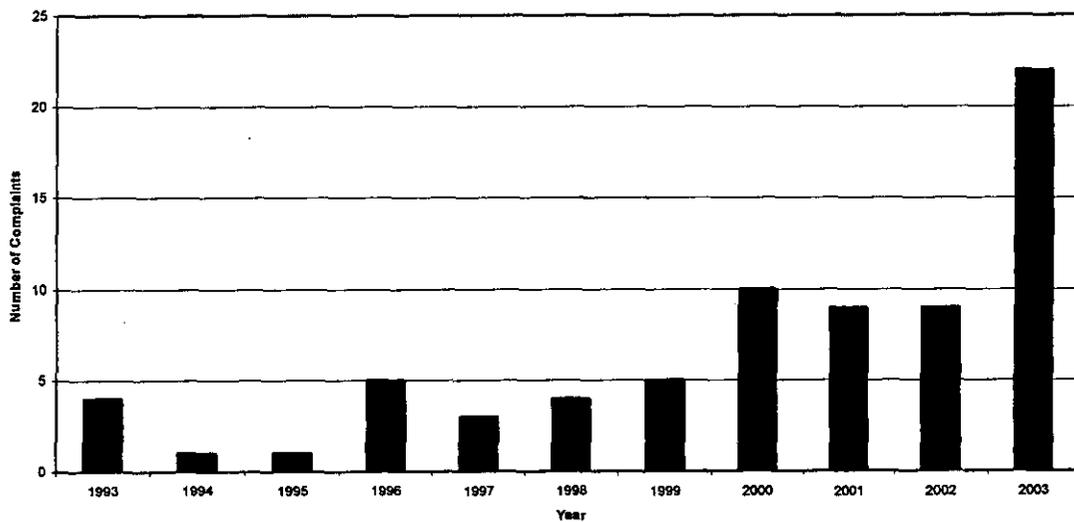
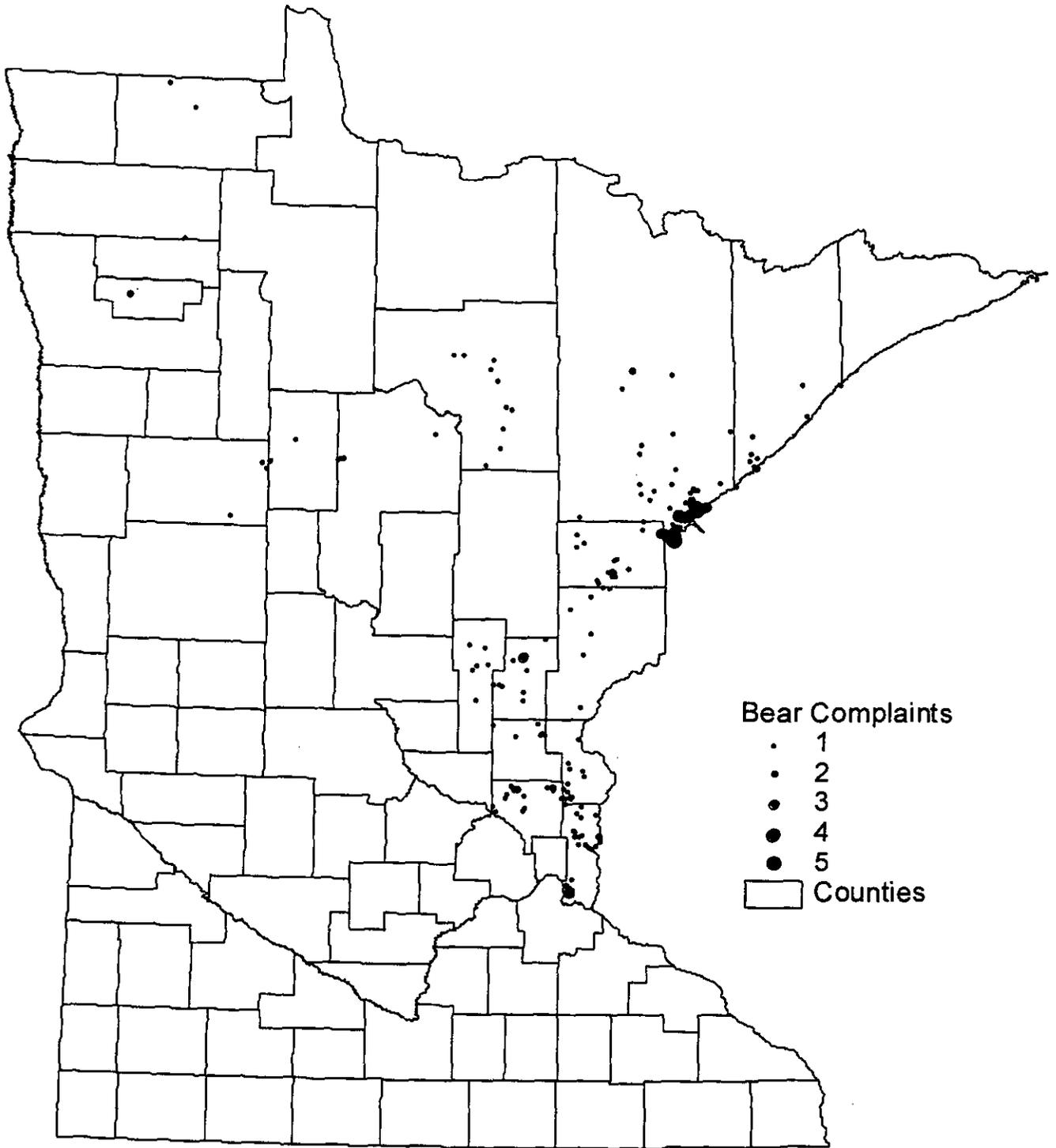
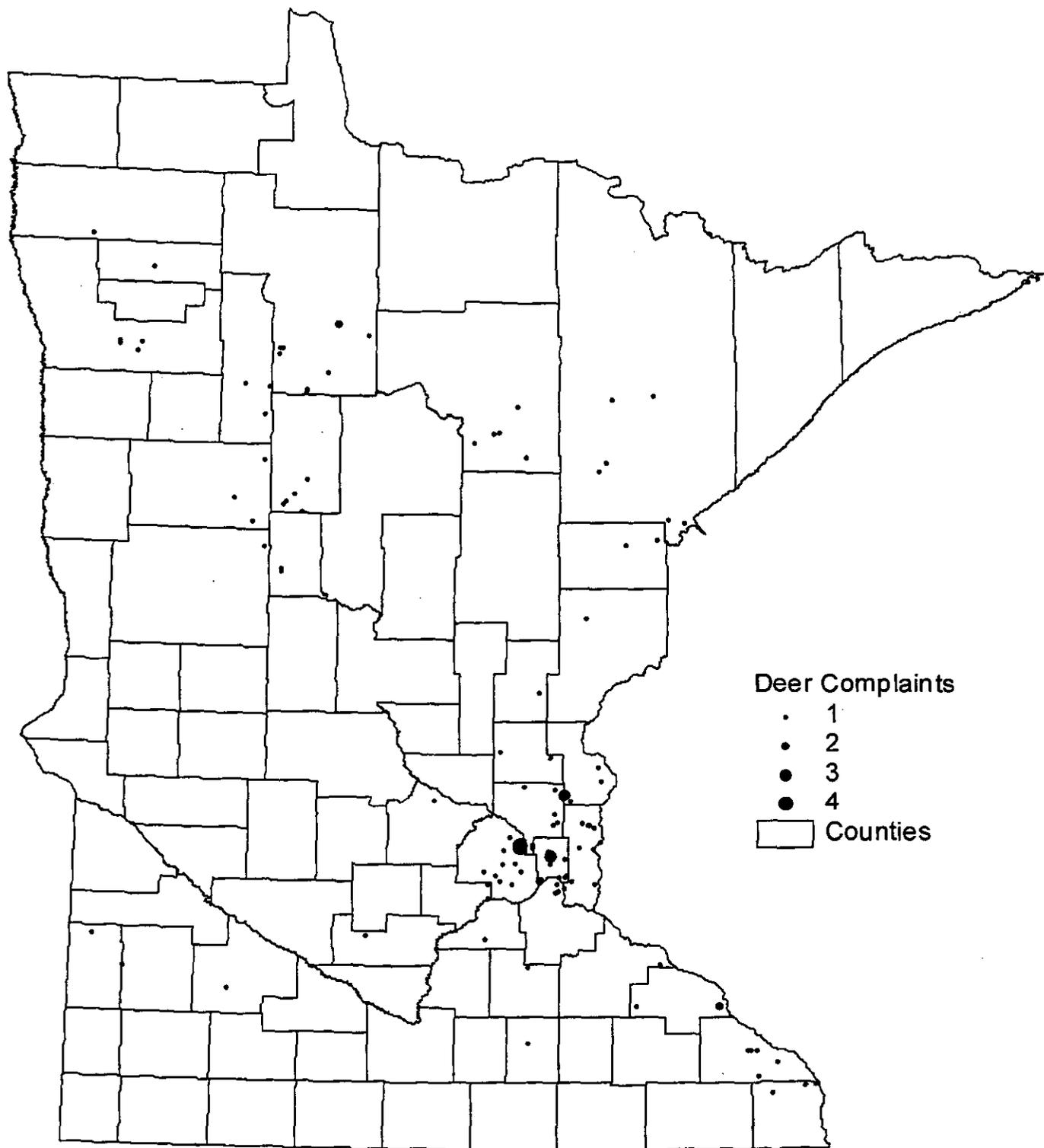


Figure 19. Number of wild turkey complaints from 1993-2003, in Minnesota.



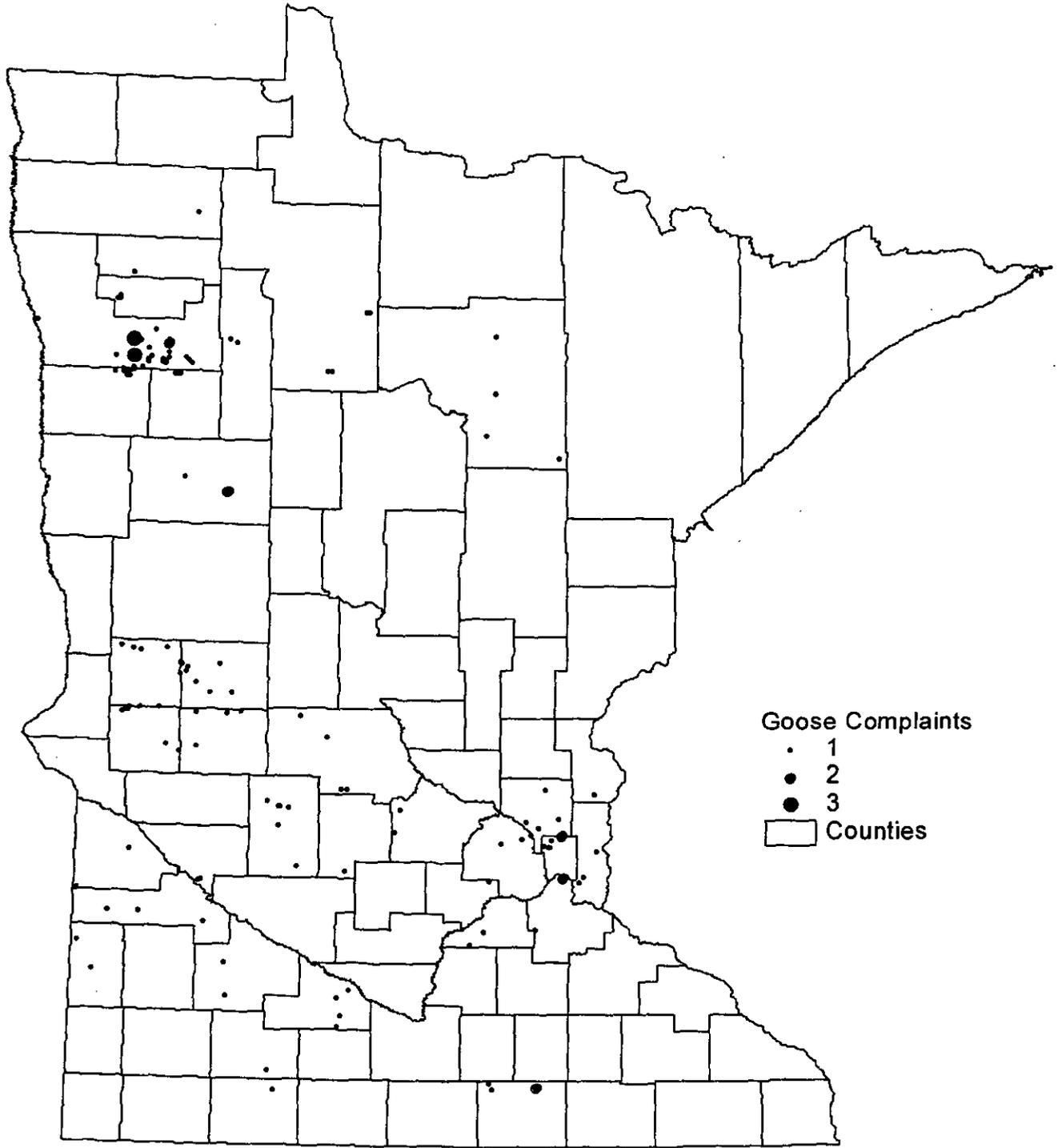
Location of bear damage complaints recorded in 2003 (n = 227)

Figure 20. Location of bear damage complaints recorded in 2003. (n= 227)



Location of deer damage complaints recorded in 2003 (n = 121)

Figure 21. Location of deer damage complaints recorded in 2003. (n= 121)



Location of goose damage complaints recorded in 2003 (n = 145)

Figure 22. Location of goose damage complaints recorded in 2003. (n= 145)

PREDATOR SCENT POST SURVEY

AND

WINTER TRACK INDICES

NOTE: This survey is organized and coordinated by the Forest Wildlife Populations and Research Group, 1201 E. Hwy 2, Grand Rapids, MN 55744. Results are presented at this location in the book because of the statewide nature of the data.

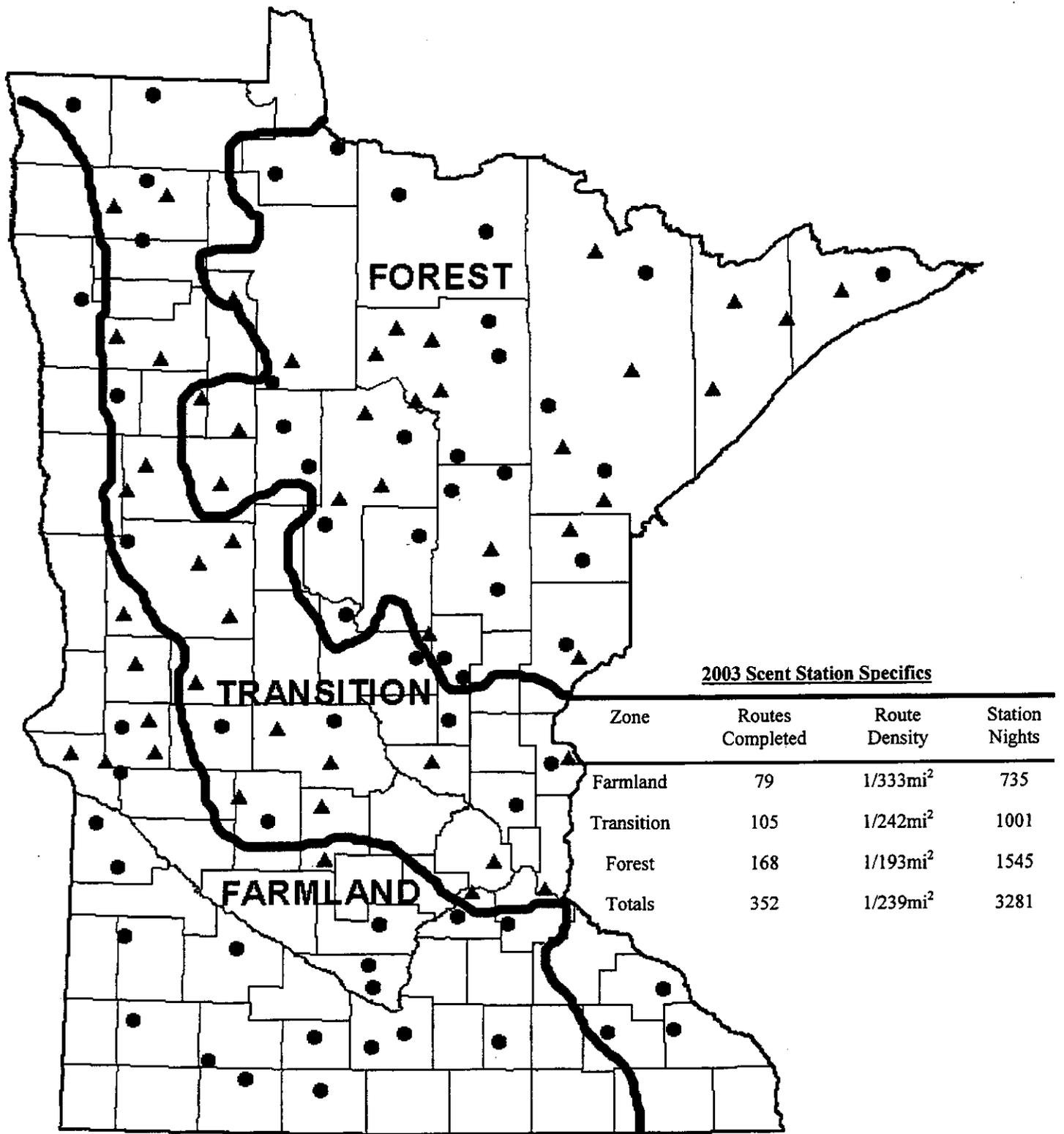


Figure 23. Approximate locations of scent station routes conducted by DNR Division of Wildlife (●) and interagency cooperators (▲), 2003. Each marked location may represent from 1-6 actual routes. Inset shows 2003 route specifics

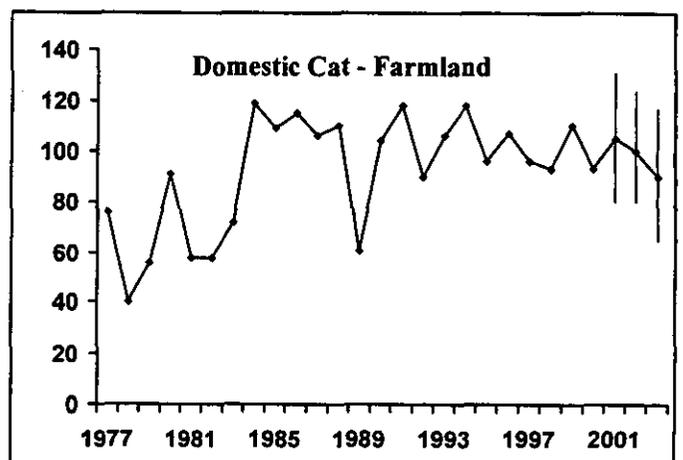
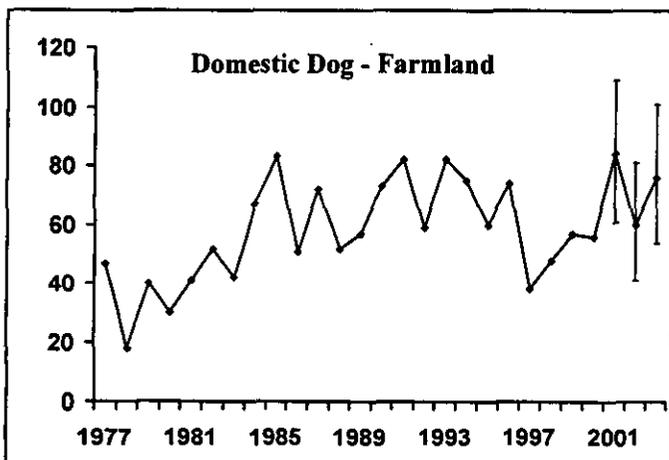
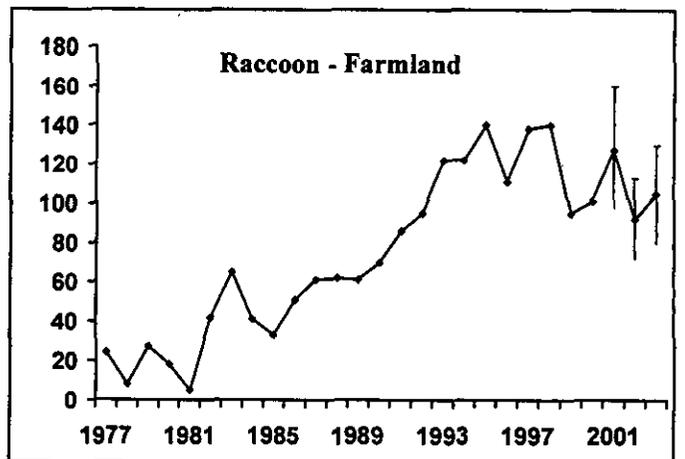
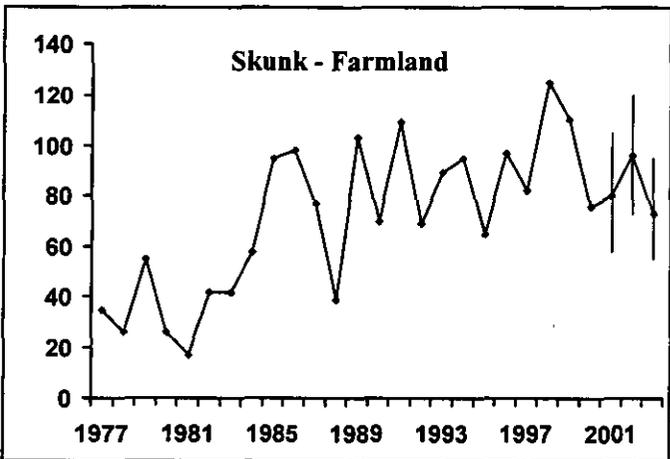
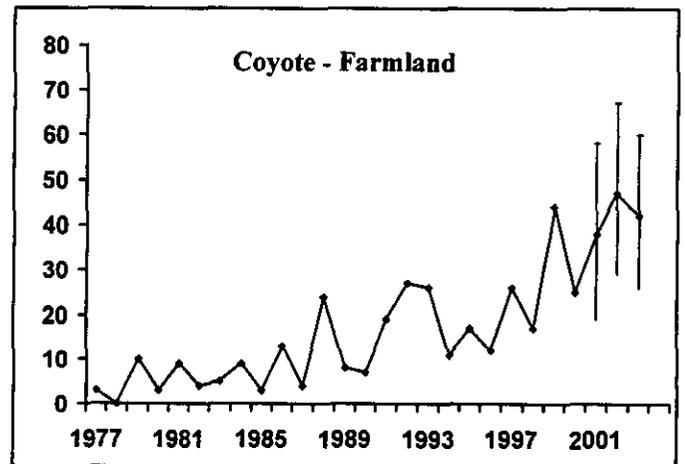
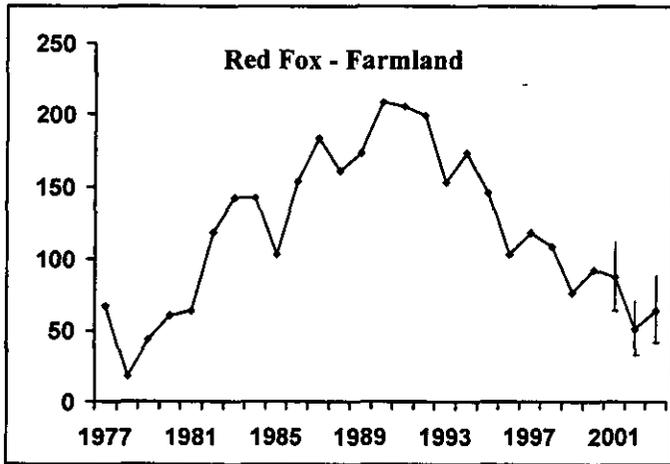


Figure 24. Scent station indices for selected species in the Farmland Zone of Minnesota, 1977-2003. Vertical bars indicate 95% confidence intervals.

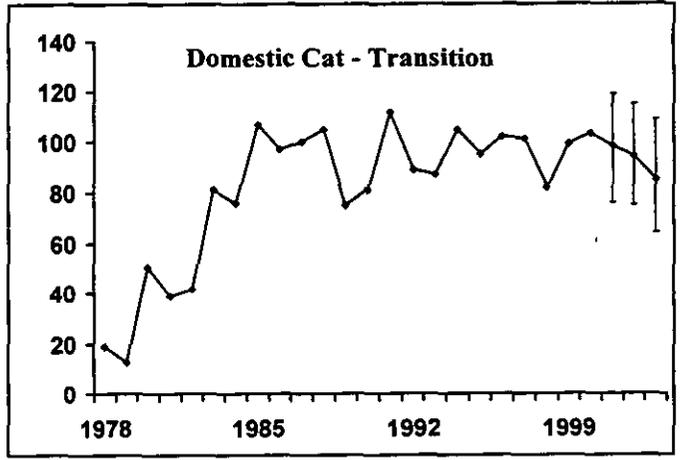
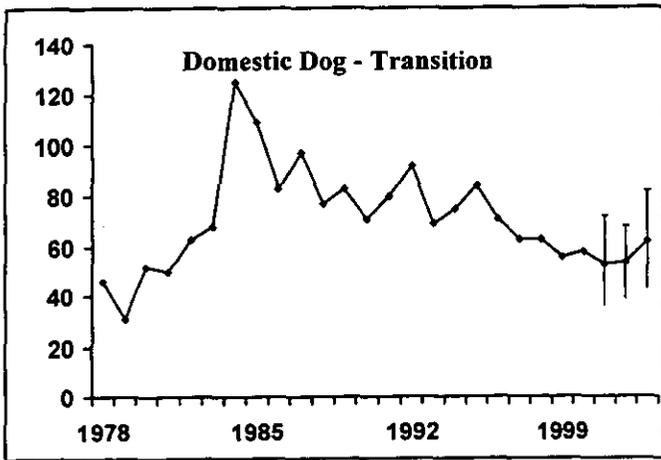
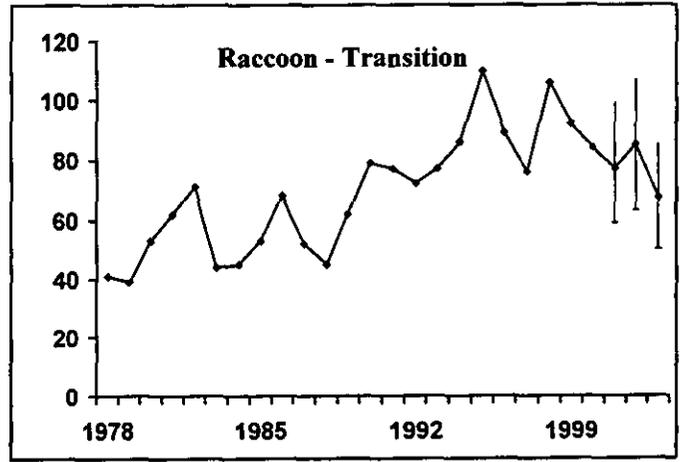
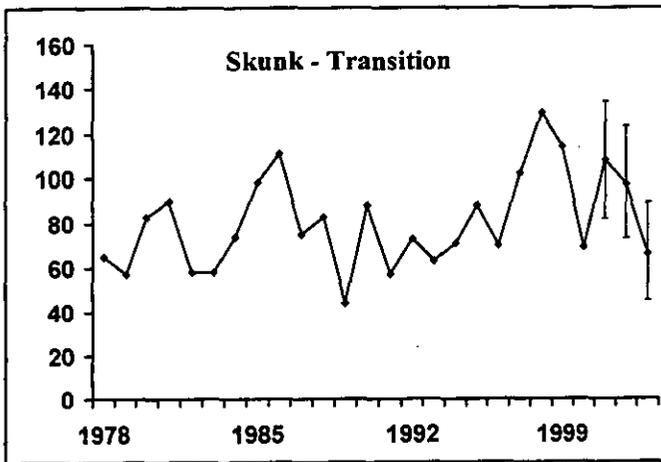
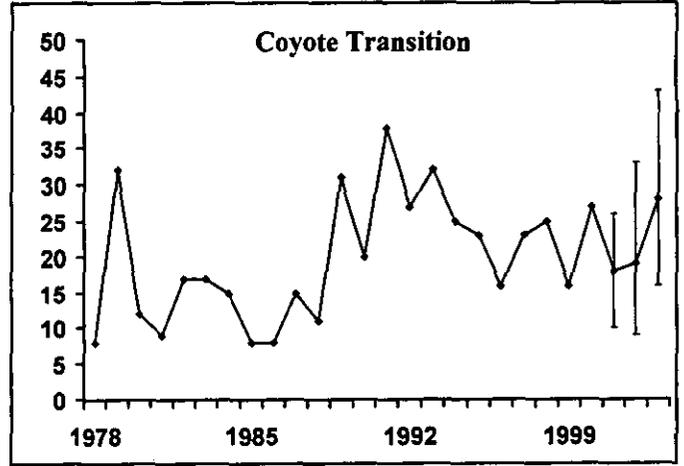
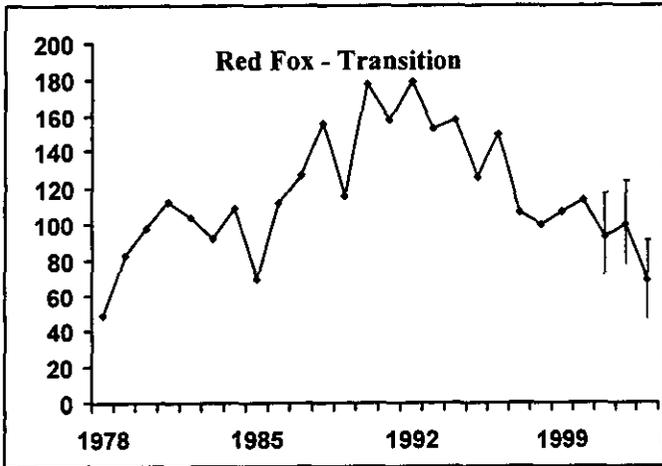


Figure 25. Scent station indices for selected species in the Transition Zone of Minnesota, 1978-2003. Vertical bars indicate 95% confidence intervals.

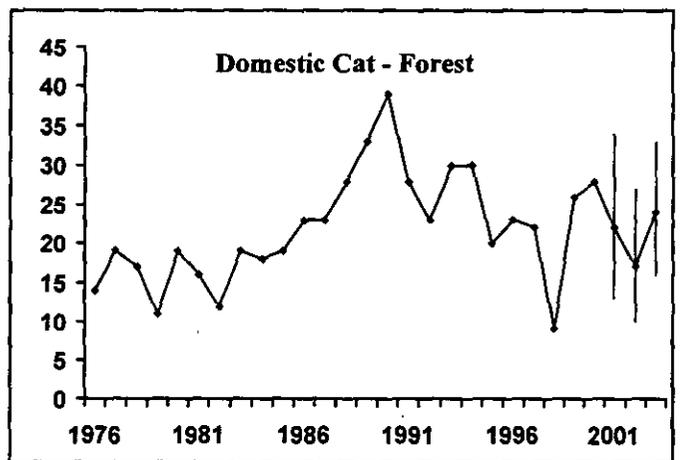
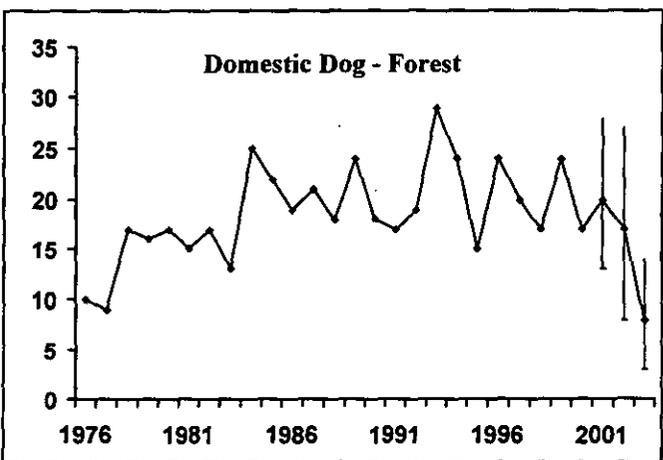
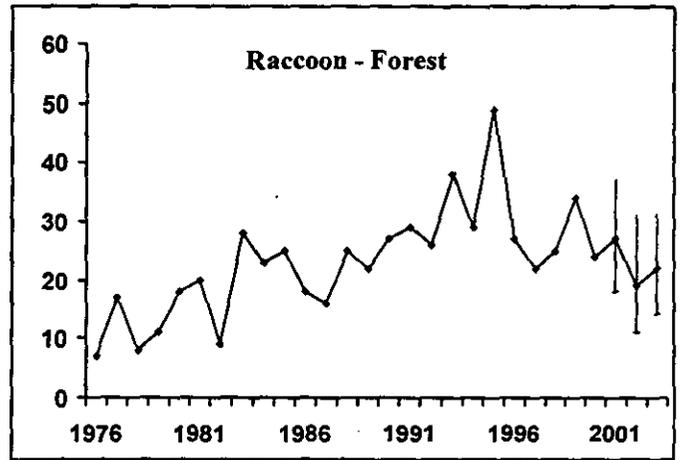
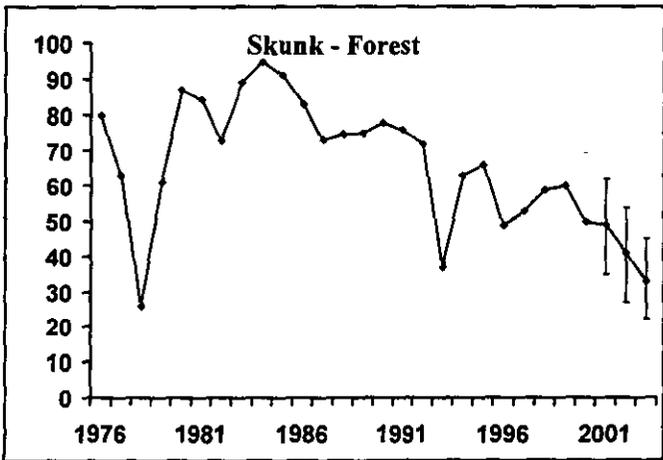
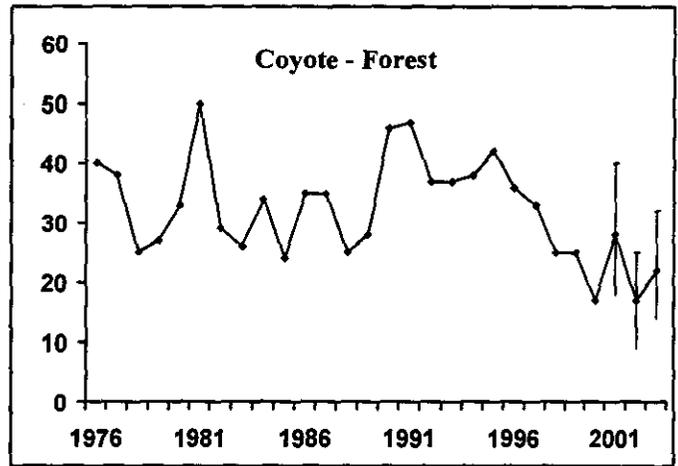
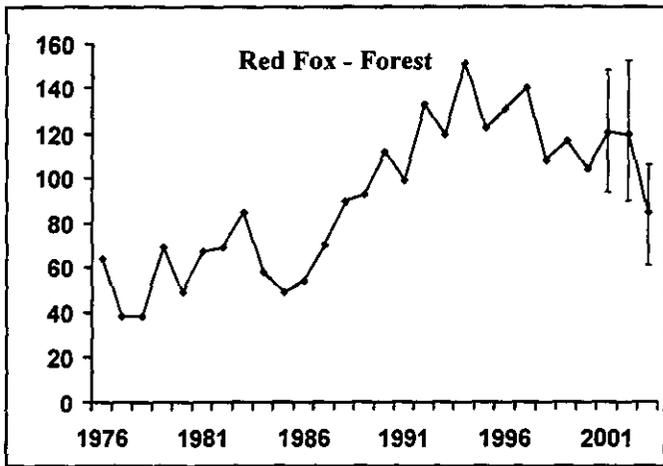


Figure 26. Scent station indices for selected species in the Forest Zone of Minnesota, 1976-2003. Vertical bars indicate 95% confidence intervals.

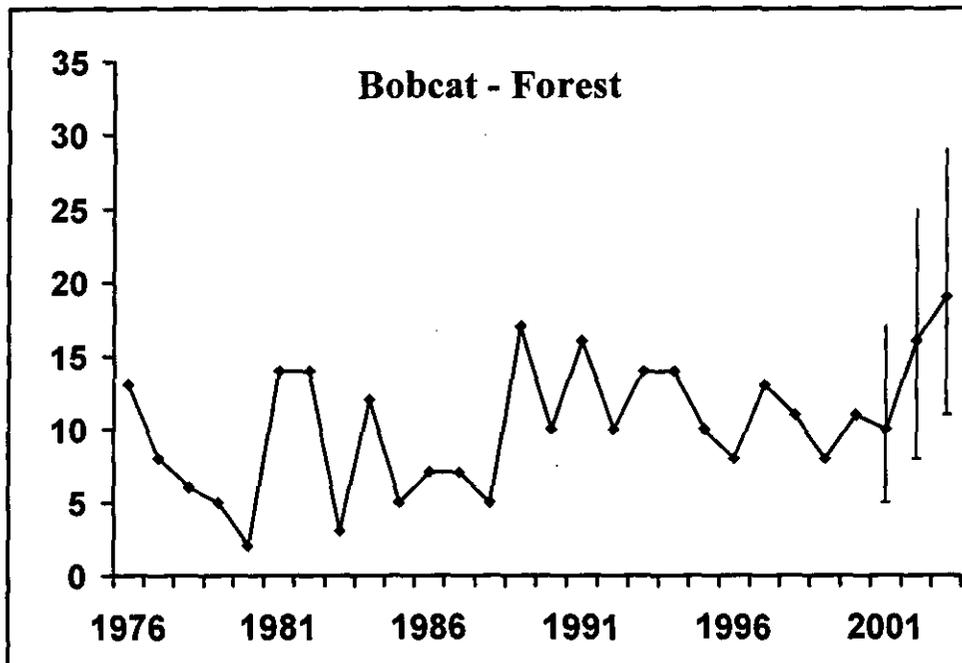
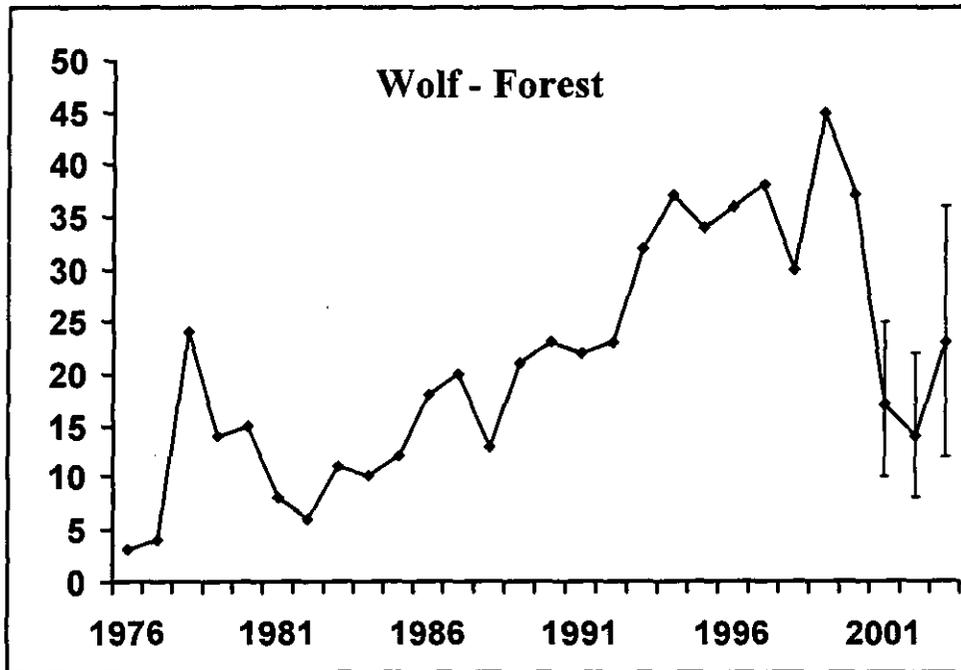


Figure 27. Scent station indices for wolf and bobcat in the Forest Zone of Minnesota, 1976-2003. Vertical bars indicate 95% confidence intervals.

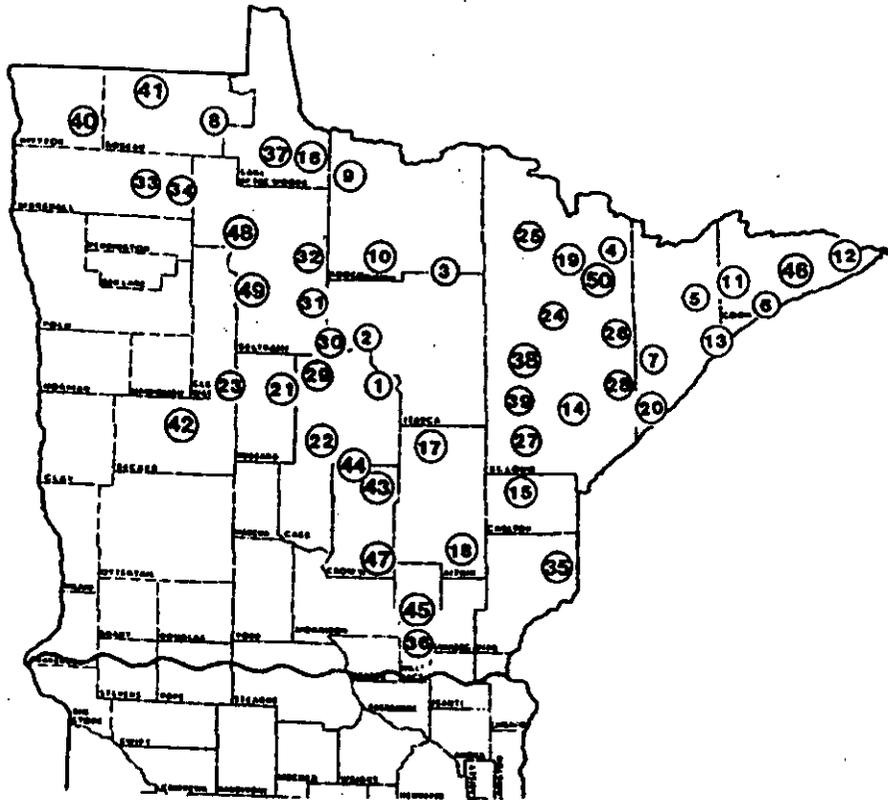


Figure 28. General locations of winter track routes, 2003.

Winter Track Survey Routes, 1991-2003

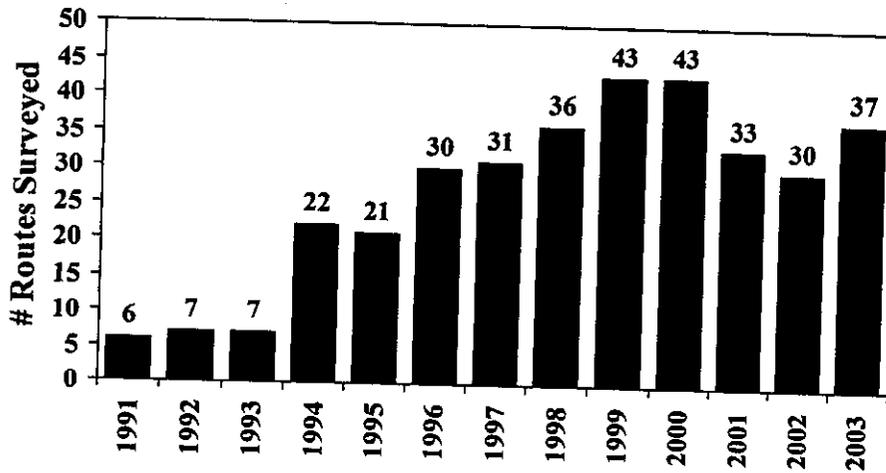


Fig. 29 Number of winter track routes surveyed, 1991-2003.

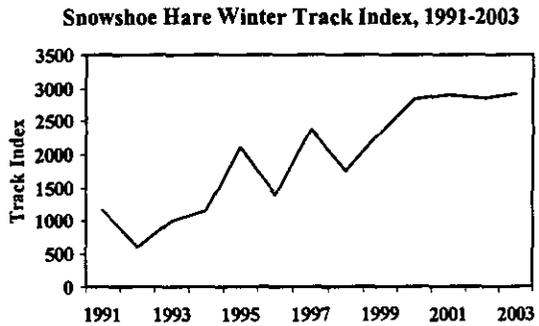
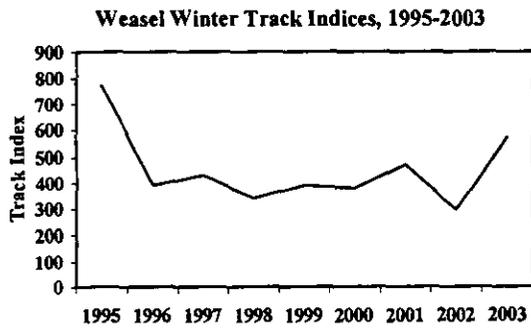
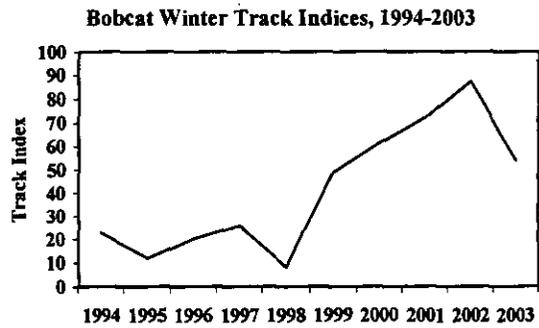
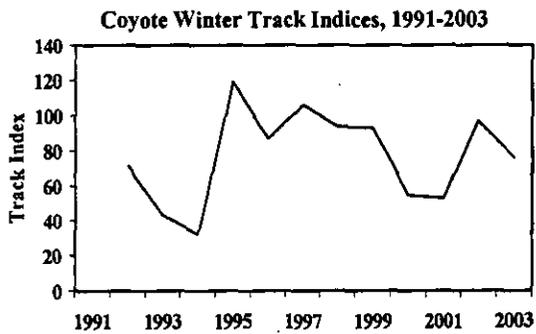
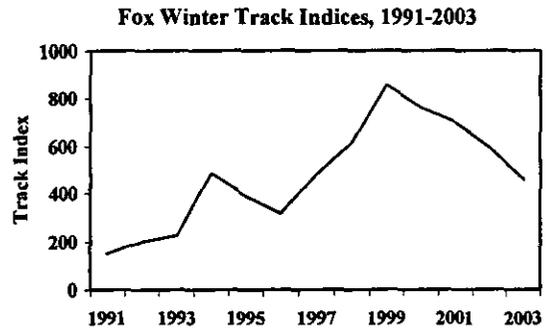
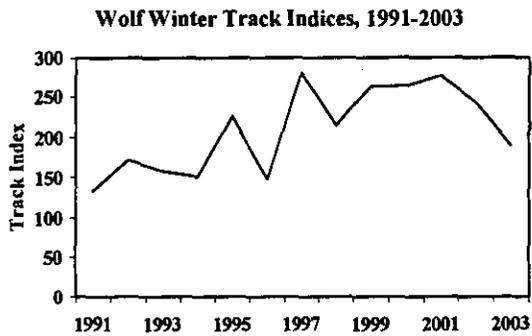
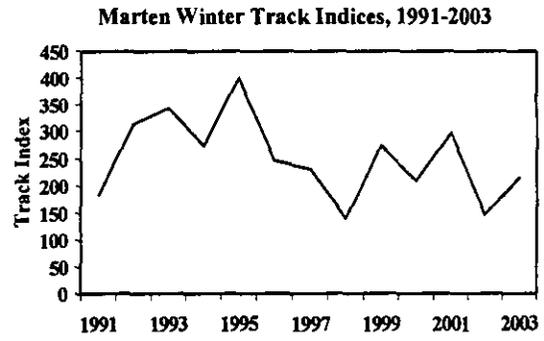
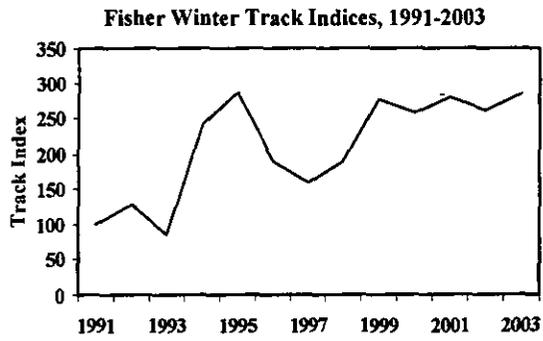


Figure 30. Winter track indices for selected species in Minnesota, 1991-2003.

FOREST WILDLIFE POPULATIONS
1201 E. Hwy 2
Grand Rapids, MN 55744
(218) 327-4432

Table 10. Mean number of ruffed grouse drums per stop by census zone, 1961-2004.

| Year | Census Zone | | | | | Rangewide mean |
|------|-------------|---------------|-----------|-------------------|-----------|----------------|
| | Northwest | North Central | Northeast | Central Hardwoods | Southeast | |
| 1961 | 1.4 | 2.2 | 0.9 | 1.0 | 1.0 | 1.4 |
| 1962 | 3.0 | 2.1 | 0.5 | 1.2 | 1.6 | 1.6 |
| 1963 | 0.4 | 0.6 | 0.5 | 0.4 | 1.1 | 0.6 |
| 1964 | 0.4 | 0.7 | 0.9 | 0.3 | 0.6 | 0.6 |
| 1965 | 1.5 | 1.3 | 0.7 | 0.6 | 1.4 | 1.0 |
| 1966 | 1.6 | 1.2 | 0.6 | 0.7 | 1.9 | 1.0 |
| 1967 | 2.8 | 1.9 | 1.3 | 1.0 | 2.2 | 1.6 |
| 1968 | 3.8 | 2.3 | 1.6 | 1.0 | 2.4 | 2.0 |
| 1969 | 3.3 | 2.7 | 1.4 | 1.4 | 2.3 | 2.2 |
| 1970 | 2.1 | 3.2 | 0.9 | 1.6 | 2.1 | 2.2 |
| 1971 | 1.4 | 3.6 | 1.0 | 1.7 | 3.7 | 2.4 |
| 1972 | 2.1 | 3.7 | 1.0 | 2.1 | 3.1 | 2.7 |
| 1973 | 0.5 | 1.5 | 0.6 | 0.9 | 3.7 | 1.1 |
| 1974 | 0.7 | 1.1 | 0.8 | 0.7 | 3.0 | 1.0 |
| 1975 | 1.2 | 1.4 | 0.8 | 0.8 | 2.6 | 1.3 |
| 1976 | 0.8 | 1.5 | 0.4 | 0.9 | 1.8 | 1.1 |
| 1977 | 0.9 | 1.6 | 0.7 | 0.9 | 2.5 | 1.2 |
| 1978 | 2.1 | 2.4 | 0.8 | 1.4 | 2.3 | 1.7 |
| 1979 | 1.7 | 2.2 | 0.7 | 1.3 | 2.2 | 1.6 |
| 1980 | 1.9 | 2.1 | 0.7 | 1.9 | 2.7 | 1.7 |
| 1981 | 1.2 | 1.7 | 0.8 | 1.8 | 2.4 | 1.4 |
| 1982 | 0.9 | 1.1 | 0.3 | 0.9 | 1.1 | 0.8 |
| 1983 | 0.6 | 1.1 | 0.6 | 0.8 | 1.5 | 0.9 |
| 1984 | 1.0 | 1.1 | 0.6 | 0.5 | 1.4 | 0.8 |
| 1985 | 0.7 | 1.2 | 0.6 | 0.6 | 1.5 | 0.9 |
| 1986 | 1.7 | 1.1 | 0.4 | 0.6 | 2.5 | 1.0 |
| 1987 | 1.6 | 1.6 | 0.7 | 0.8 | 1.2 | 1.2 |
| 1988 | 1.3 | 2.0 | 1.0 | 1.0 | 1.1 | 1.4 |
| 1989 | 2.2 | 2.6 | 1.5 | 1.2 | 1.2 | 1.9 |
| 1990 | 0.8 | 2.5 | 0.9 | 1.1 | 1.2 | 1.6 |
| 1991 | 1.0 | 1.7 | 0.8 | 0.7 | 0.7 | 1.2 |
| 1992 | 1.0 | 1.0 | 0.5 | 0.6 | 0.6 | 0.8 |
| 1993 | 0.9 | 0.8 | 0.5 | 0.6 | 0.5 | 0.7 |
| 1994 | 1.7 | 1.0 | 0.5 | 0.5 | 0.4 | 0.9 |
| 1995 | 2.1 | 1.5 | 0.6 | 0.9 | 0.5 | 1.2 |
| 1996 | 2.4 | 1.8 | 0.7 | 0.8 | 0.5 | 1.4 |
| 1997 | 2.0 | 2.3 | 1.5 | 0.9 | 0.4 | 1.7 |
| 1998 | 1.7 | 2.7 | 1.2 | 1.2 | 0.5 | 1.8 |
| 1999 | 2.3 | 2.1 | 1.2 | 1.3 | 0.5 | 1.7 |
| 2000 | 1.5 | 1.9 | 1.1 | 1.3 | 0.4 | 1.5 |
| 2001 | 1.3 | 1.1 | 0.6 | 0.7 | 0.4 | 0.9 |
| 2002 | 1.2 | 1.0 | 0.6 | 0.6 | 0.4 | 0.8 |
| 2003 | 1.2 | 1.0 | 0.6 | 0.8 | 0.6 | 0.9 |
| 2004 | 1.1 | 0.9 | 0.5 | 0.8 | 0.7 | 0.8 |

RUFFED GROUSE 2003-2004

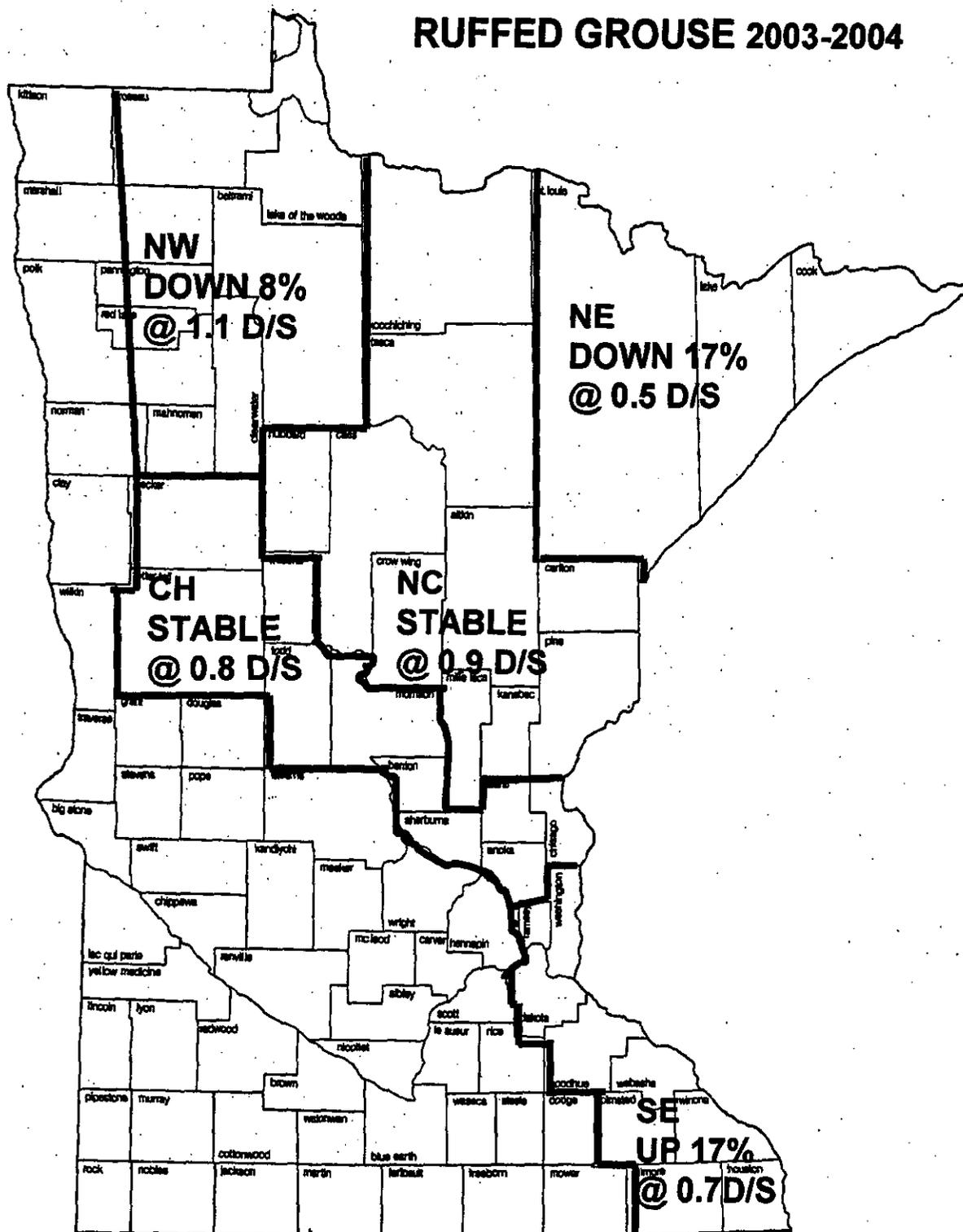


Figure 31. Changes in average numbers of ruffed grouse drums per stop on roadside counts, 2003-2004.

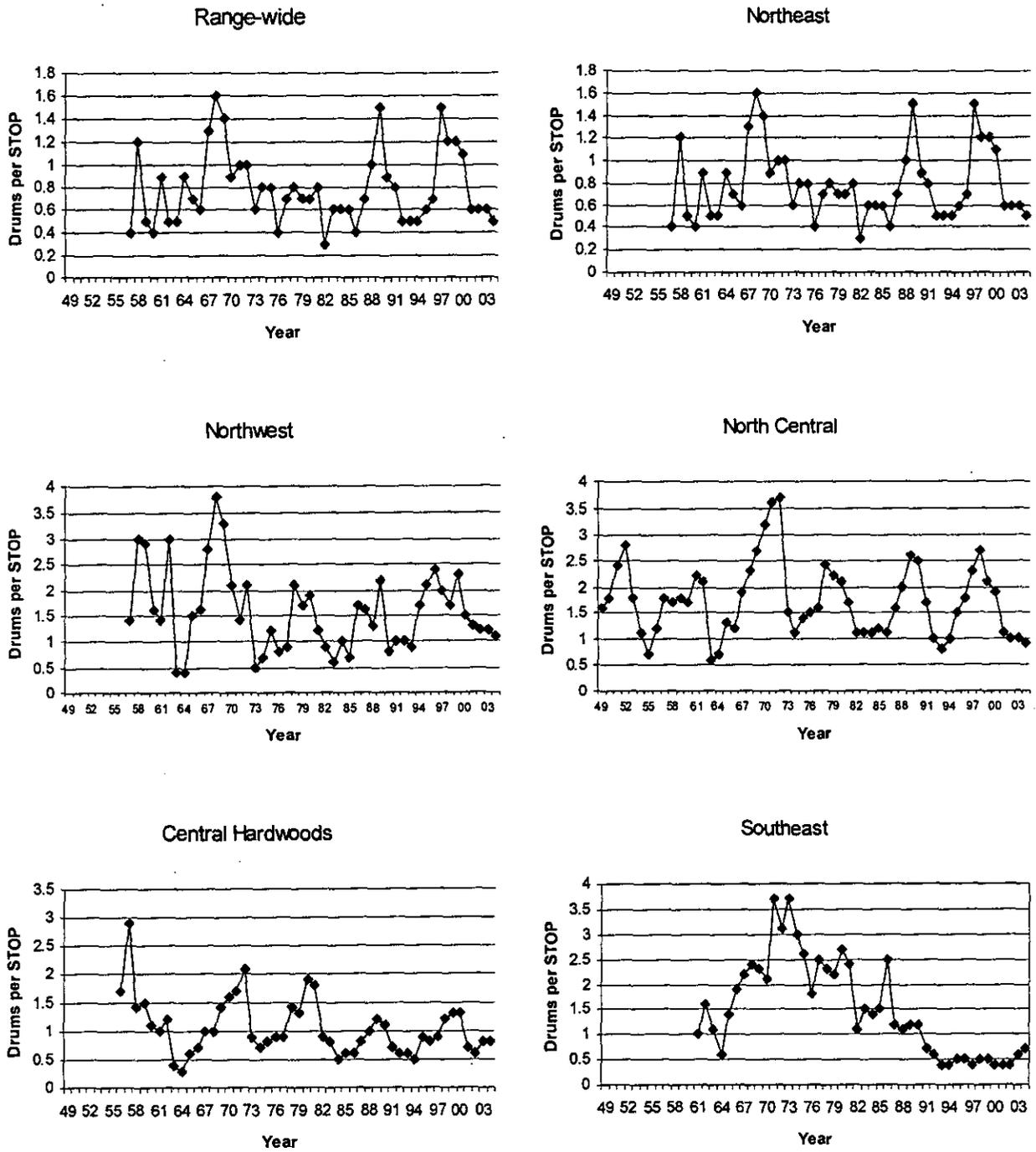


Figure 32. Summary of ruffed grouse drumming trends range-wide and in each of five survey zones, 1949-2004.

SHARP-TAILED GROUSE 2003-2004

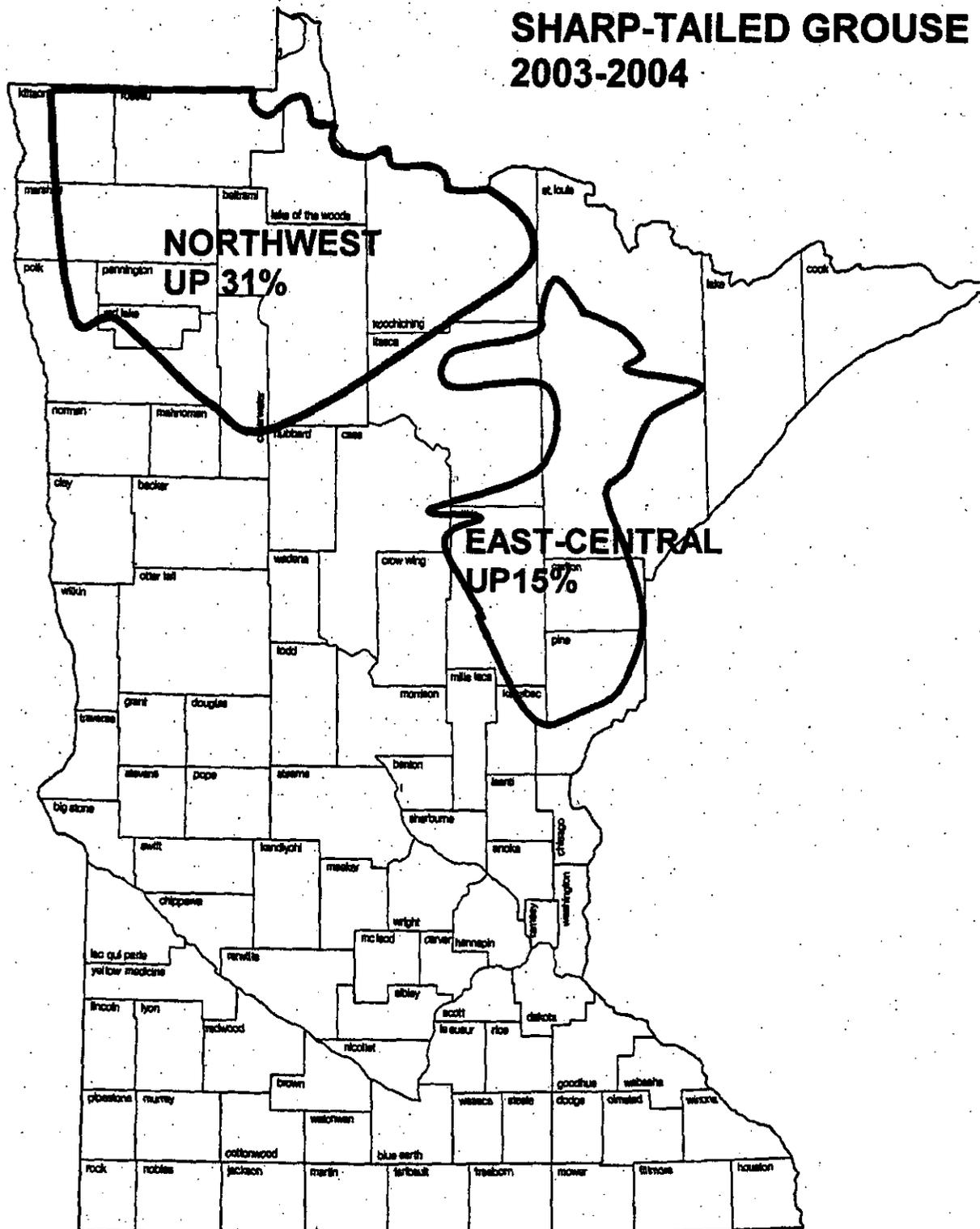


Figure 33. Changes in male sharp-tailed grouse counted on comparable dancing grounds in the Northwest and East-central ranges, 2003-2004.

Table 11. Number of snowshoe hares seen per 100 km of ruffed grouse drumming routes in the North, Northwest, and Northeast survey zones, 1974-2004.

| Year | Hares seen per 100 km |
|------|-----------------------|
| 1974 | 0.45 |
| 1975 | 0.00 |
| 1976 | 2.04 |
| 1977 | 2.76 |
| 1978 | 8.98 |
| 1979 | 8.77 |
| 1980 | 14.06 |
| 1981 | 9.81 |
| 1982 | 1.83 |
| 1983 | 0.70 |
| 1984 | 0.16 |
| 1985 | 0.38 |
| 1986 | 0.17 |
| 1987 | 0.51 |
| 1988 | 0.90 |
| 1989 | 2.69 |
| 1990 | 2.30 |
| 1991 | 1.16 |
| 1992 | 1.36 |
| 1993 | 0.46 |
| 1994 | 0.20 |
| 1995 | 0.46 |
| 1996 | 0.78 |
| 1997 | 0.57 |
| 1998 | 0.42 |
| 1999 | 1.08 |
| 2000 | 0.90 |
| 2001 | 1.68 |
| 2002 | 0.75 |
| 2003 | 1.80 |
| 2004 | 1.20 |

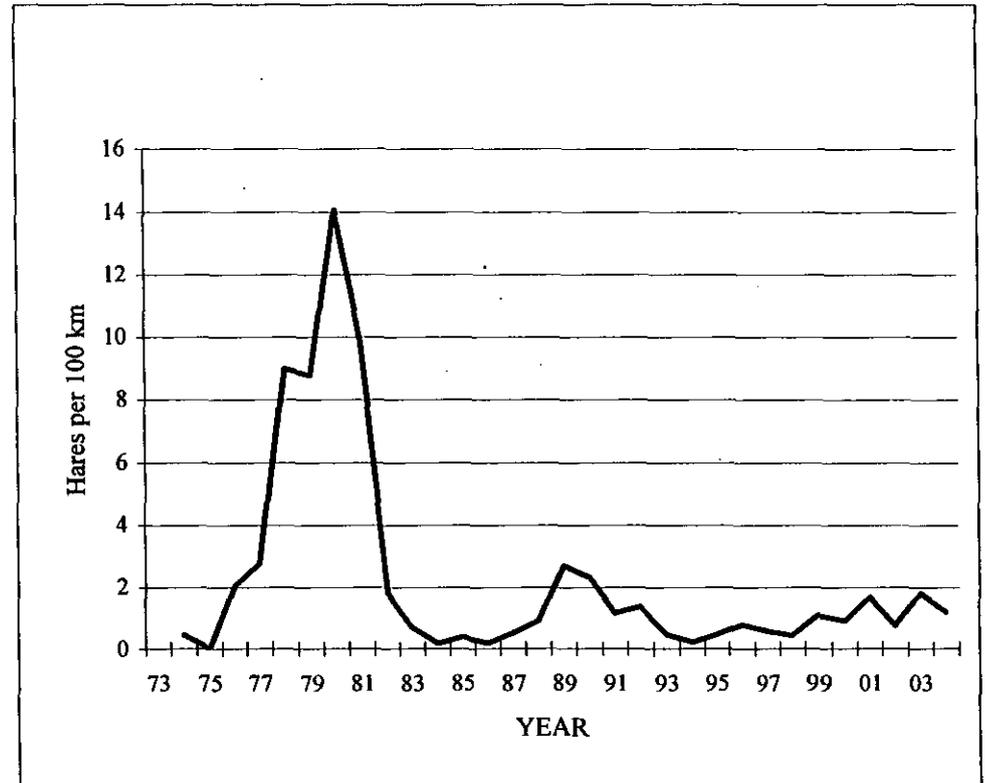


Figure 34. Snowshoe hare index (hares/100 km) based on hares seen on northern ruffed grouse drumming routes in Minnesota, 1974-2004.

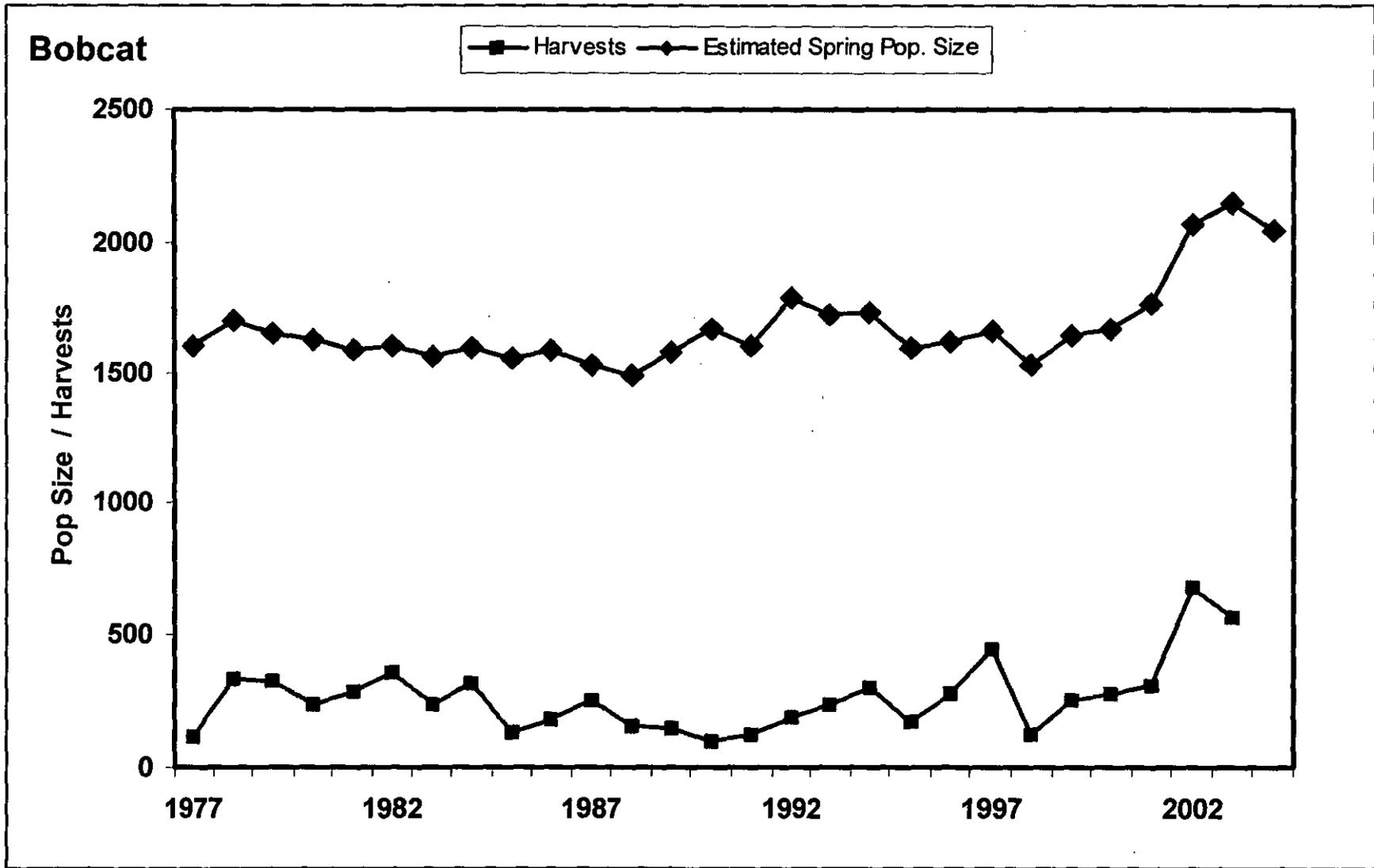


Figure 35. Population modeling for bobcat in Minnesota, 2004. Simulated harvest based on the previous 3-year average.



Table 12. Bobcat harvest, age structure, and population index data in Minnesota, 1987 to 2003.

| | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
|-------------------------------------|---------------|---------------|--------------|--------------|---------------|---------------|--------------|--------------|--------------|---------------|---------------|-----------------|--------------|--------------|---------------|---------------|---------------|
| Season | 11/28- 1/3 | 11/26- 1/1 | 12/2- 1/7 | 12/1- 1/6 | 11/30- 1/5 | 11/28- 1/3 | 12/4- 1/9 | 12/3- 1/8 | 12/2- 1/7 | 11/30- 1/5 | 11/29- 1/4 | 11/28- 12/13 | 12/4- 1/9 | 12/2- 1/7 | 11/24- 1/6 | 11/30- 1/5 | 11/29- 1/4 |
| Limit | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| Registered take | 214 | 140 | 129 | 84 | 106 | 167 | 201 | 238 | 134 | 223 | 364 | 103 | 206 | 231 | 259 | 544 | 483 |
| % autumn pop. taken ¹ | 11 | 8 | 6 | 5 | 6 | 9 | 11 | 14 | 9 | 13 | 20 | 6 | 12 | 13 | 13 | 31 | 18 |
| Carcasses examined | 163 | 114 | 119 | 62 | 93 | 151 | 161 | 187 | 96 | 164 | 270 | 77 | 163 | 183 | 213 | 475 | 425 |
| % juveniles | 33 | 49 | 39 | 20 | 35 | 28 | 32 | 26 | 31 | 35 | 35 | 29 | 18 | 31 | 30 | 27 | 25 |
| % 1.7 yrs. old | 16 | 18 | 17 | 34 | 33 | 22 | 20 | 16 | 15 | 20 | 16 | 26 | 24 | 26 | 21 | 25 | 13 |
| % ≥ 2.7 yrs. old | 51 | 42 | 44 | 46 | 32 | 50 | 48 | 58 | 54 | 45 | 49 | 45 | 58 | 43 | 49 | 48 | 62 |
| Juv. : ≥2.7 yr. females | 1.4 | 1.7 | 2.0 | 0.8 | 3.6 | 1.2 | 1.4 | 0.8 | 2.7 | 1.5 | 1.2 | 1.6 | 0.8 | 1.5:1 | 1.3 | 1.0 | 0.9 |
| % male juveniles | 44 | 58 | 49 | 58 | 59 | 55 | 51 | 64 | 57 | 51 | 60 | 59 | 55 | 54 | 52 | 66 | 61 |
| % male 1.7 yrs. | 52 | 62 | 53 | 80 | 55 | 45 | 45 | 43 | 71 | 30 | 37 | 60 | 59 | 59 | 51 | 49 | 46 |
| % male ≥ 2.7 yrs. | 48 | 46 | 56 | 44 | 70 | 53 | 52 | 45 | 79 | 49 | 43 | 60 | 62 | 50 | 53 | 46 | 53 |
| Overall % males | 48 | 54 | 53 | 59 | 61 | 53 | 50 | 50 | 71 | 46 | 48 | 60 | 60 | 53 | 52 | 52 | 54 |
| Mean pelt price | \$101 | \$68 | \$48 | \$43 | \$37 | \$28 | \$43 | \$36 | \$34 | \$33 | \$30 | \$28 | \$24 | \$33 | \$46 | \$72 | \$96 |
| Scent post index ² | 7 | 5 | 17 | 10 | 16 | 10 | 14 | 14 | 10 | 9 | 8 | 11 | 8 | 11 | 10 | 16 | 19 |
| Winter track index ³ | | | | | | | | 23 | 12 | 20 | 26 | 8 | 49 | 61 | 72 | 87 | 54 |

¹ estimated from population model, includes accidental harvests of 10% 1977-1999

² index for autumn prior to harvest season

³ index for winter during / after harvest season.

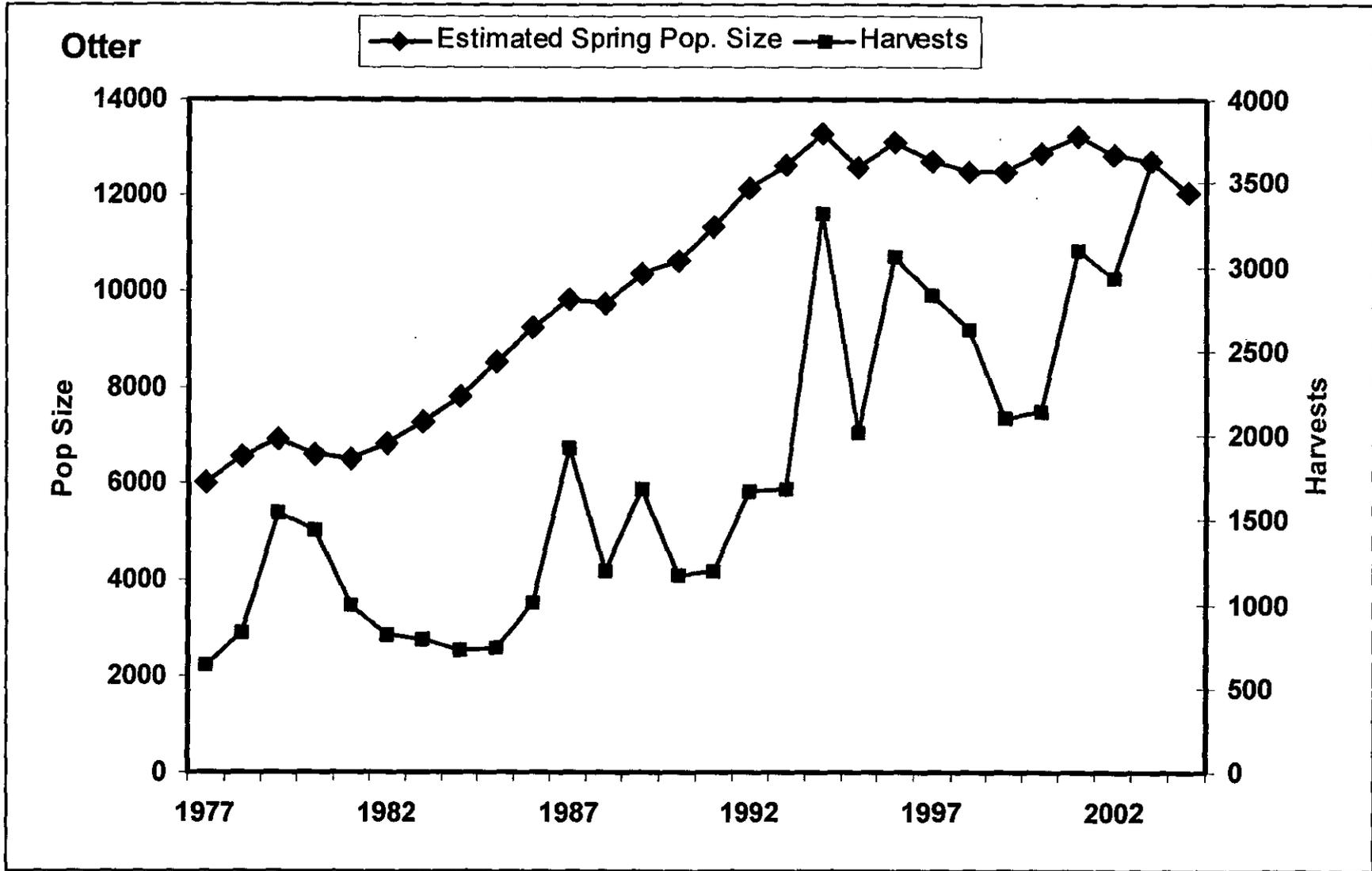


Figure 36. Population modeling summary for otter in Minnesota 2004. Simulated harvests are based on the previous 3-year average.



Table 13. Otter harvest, and pelt price data in Minnesota, 1987-2003.

| | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
|---|-----------------|-----------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Season dates | 10/24- 11/29 | 10/29- 11/27 | 10/28- 12/17 | 10/27- 1/6 | 10/26- 1/5 | 10/24- 1/3 | 10/23- 1/9 | 10/29- 1/8 | 10/28- 1/7 | 10/26- 1/5 | 10/28- 1/4 | 10/24- 1/3 | 10/23- 1/9 | 10/28- 1/7 | 10/27- 1/6 | 10/26- 1/5 | 10/25- 1/4 |
| Limit | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Registered harvest | 1,386 | 922 | 1,294 | 903 | 855 | 1,365 | 1,454 | 2,445 | 1,435 | 2,219 | 2,145 | 1,946 | 1635 | 1578 | 2314 | 2145 | 2766 |
| % of autumn pop. harvested ^a | 20 | 12 | 17 | 13 | 13 | 17 | 18 | 22 | 14 | 21 | 16 | 16 | 13 | 12 | 17 | 17 | 21 |
| Mean pelt prices: | | | | | | | | | | | | | | | | | |
| Otter | \$23 | \$22 | \$22 | \$24 | \$25 | \$29 | \$43 | \$48 | \$38 | \$39 | \$40 | \$34 | \$41 | \$51 | \$46 | \$61 | \$85 |
| Beaver (fall) | \$17 | \$14 | \$12 | \$9 | \$9 | \$7 | \$11 | \$14 | \$13 | \$19 | \$16 | \$11 | \$12 | \$15 | \$13 | \$10 | \$13 |

^a From population modeling; includes additional accidental harvests of 30% to 1991, and 22% after 1991.

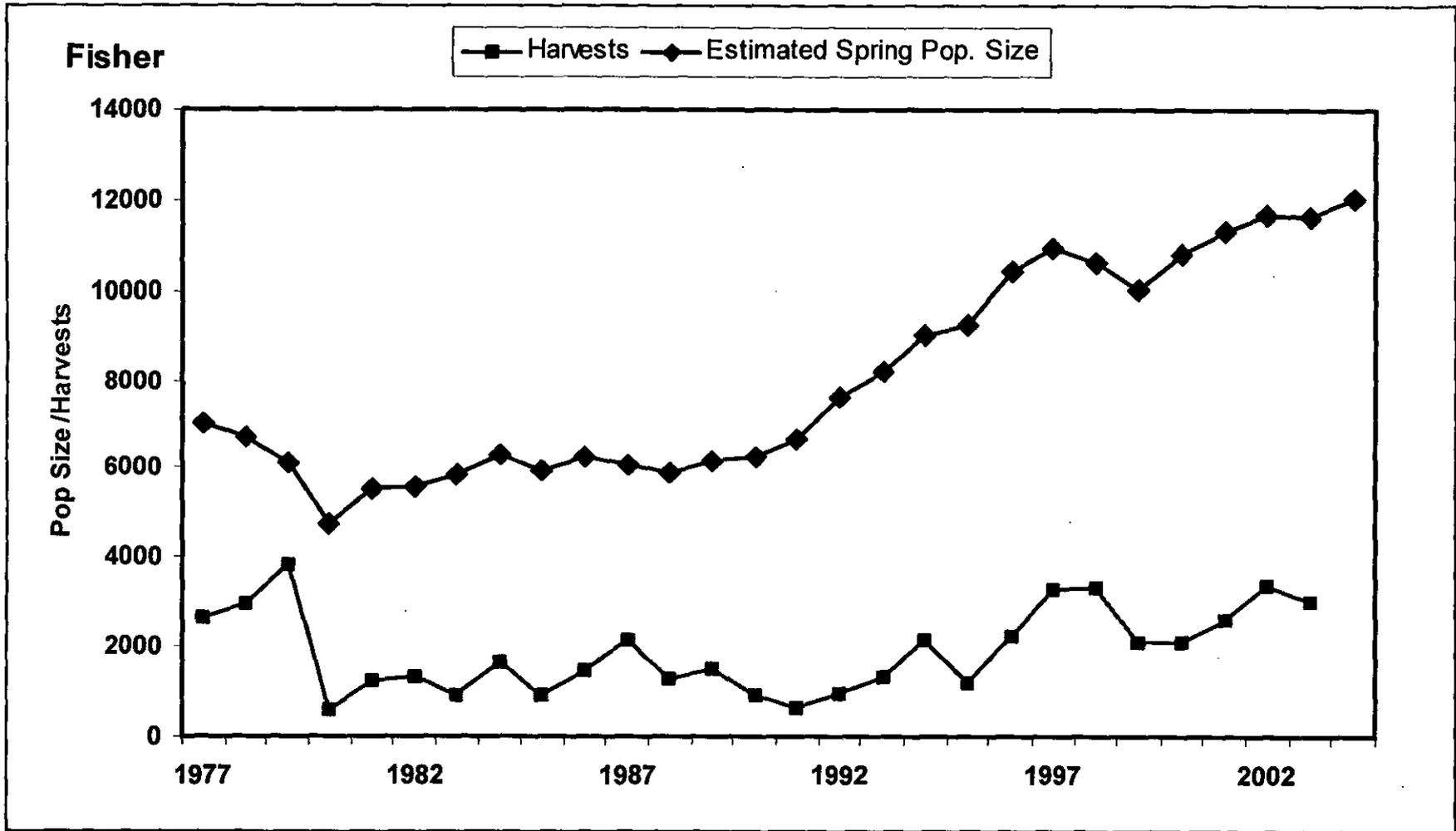


Figure 37. Population modeling summary for fisher in Minnesota, 2004. Simulated harvests are based on the previous 3-year average.

Table 14. Fisher harvest, carcass collection, and pelt price data in Minnesota, 1986-2003. Carcass collection ended in 1994.

| | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
|---|----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-----------------|-----------------|
| Season | 11/23- 12/4 | 11/28- 12/13 | 11/26- 12/11 | 12/2- 12/17 | 12/1- 12/16 | 11/30- 12/15 | 11/28- 12/13 | 12/4- 12/19 | 12/3- 12/18 | 12/2- 12/17 | 11/30- 12/15 | 11/29- 12/14 | 11/28- 12/13 | 12/4- 12/19 | 12/2- 12/17 | 11/24- 12/9 | 11/30- 12/15 | 11/29- 12/14 |
| Limit | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 ⁴ | 4 ⁴ | 5 ⁵ | 5 ⁵ |
| Registered Harvest | 1,068 | 1642 | 1,025 | 1,243 | 746 | 528 | 777 | 1,158 | 1,771 | 942 | 1,773 | 2,761 | 2,695 | 1,725 | 1,674 | 2,145 | 2,660 | 2,517 |
| % of available fall population harvested ¹ | 17 | 24 | 16 | 15 | 11 | 7 | 10 | 12 | 18 | 10 | 18 | 26 | 25 | 13 | 13 | 16 | 20 | 18 |
| No. carcasses examined ² | 1186 | 1534 | 805 | 1024 | 592 | 410 | 629 | 937 | 1360 | --- | --- | --- | --- | -- | -- | -- | -- | -- |
| % juveniles | 59 | 53 | 70 | 64 | 65 | 66 | 54 | 59 | 56 | --- | --- | --- | --- | -- | -- | -- | -- | -- |
| % 1.7 yrs. | 24 | 15 | 15 | 19 | 14 | 21 | 25 | 22 | 18 | --- | --- | --- | --- | -- | -- | -- | -- | -- |
| % ≥ 2.7 yrs. | 18 | 22 | 15 | 17 | 21 | 13 | 21 | 19 | 26 | --- | --- | --- | --- | -- | -- | -- | -- | -- |
| Juv.:adult female ratio | 5.3:1 | 4.7:1 | 6.8:1 | 5.8:1 | 4.5:1 | 7.8:1 | 4.9:1 | 5.3:1 | 4.0:1 | --- | --- | --- | --- | -- | -- | -- | -- | -- |
| % male juveniles | 48 | 46 | 48 | 47 | 44 | 50 | 42 | 47 | 47 | --- | --- | --- | --- | -- | -- | -- | -- | -- |
| % male 1.7 yrs. | 50 | 40 | 45 | 47 | 55 | 52 | 55 | 37 | 54 | --- | --- | --- | --- | -- | -- | -- | -- | -- |
| % male ≥ 2.7 yrs. | 37 | 37 | 33 | 36 | 30 | 35 | 45 | 42 | 44 | --- | --- | --- | --- | -- | -- | -- | -- | -- |
| % males overall | 46 | 43 | 45 | 45 | 43 | 48 | 46 | 44 | 48 | --- | --- | --- | --- | -- | -- | -- | -- | -- |
| Pelt price: males | \$84 | \$84 | \$54 | \$26 | \$35 | \$21 | \$16 | \$14 | \$19 | \$16 | \$25 | \$31 | \$19 | \$19 | \$20 | \$23 | \$27 | \$27 |
| females | \$162 | \$170 | \$100 | \$53 | \$46 | \$48 | \$29 | \$28 | \$30 | \$25 | \$34 | \$34 | \$22 | \$20 | \$19 | \$23 | \$25 | \$26 |
| Winter track index ³ | | | | | | 100 | 128 | 86 | 241 | 286 | 190 | 159 | 189 | 277 | 257 | 280 | 260 | 284 |

¹ estimated from population model, includes accidental harvests of 22% 1977-1992, and 11% 1993-1999

² may exceed registration totals due to accidental catches, Indian Reservation season framework, etc.

³ index for winter during / after harvest season.

⁴ combined limit in 2000 of any combination of marten and fisher totaling 4.

⁵ combined limit of any combination of marten and fisher totaling 5.

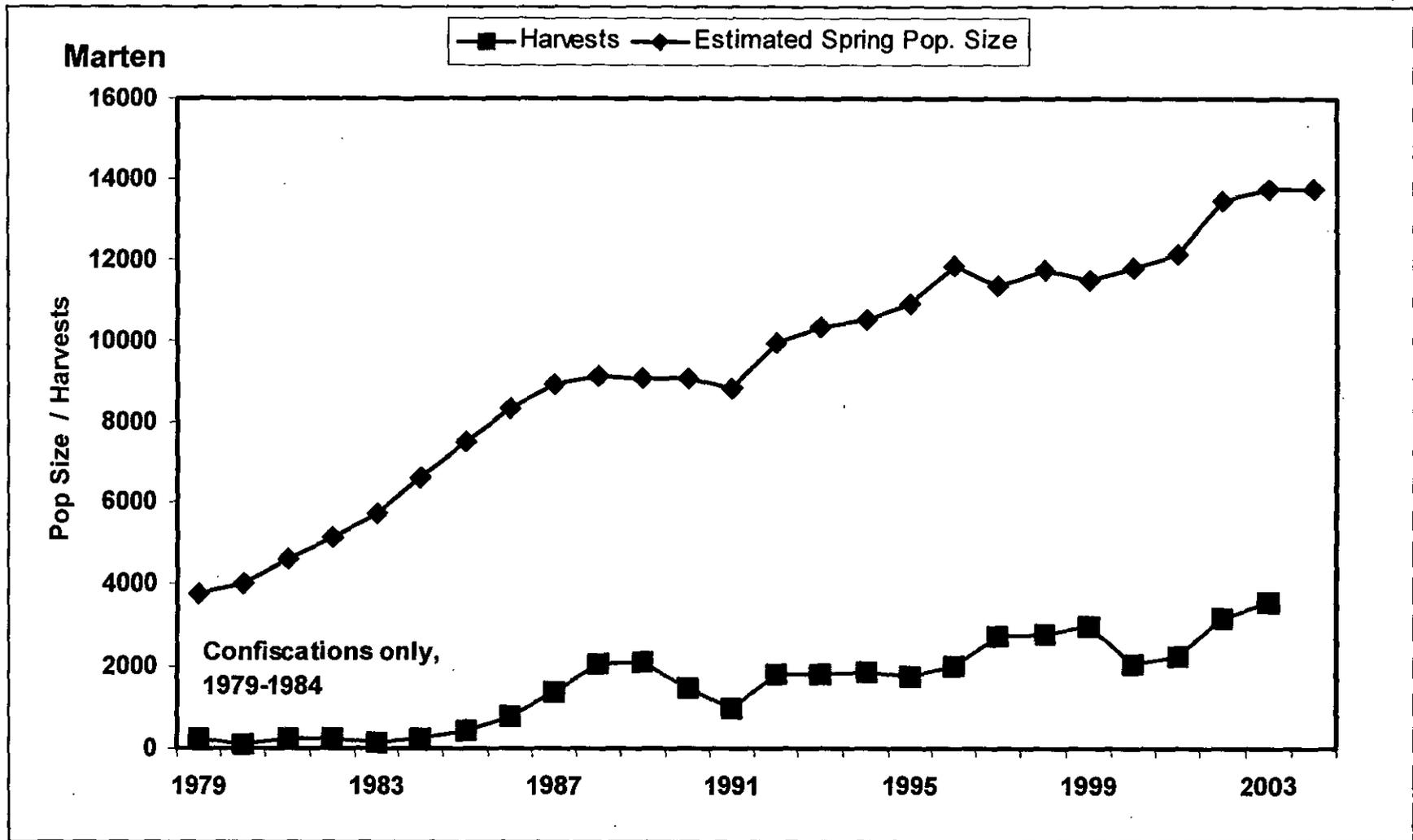


Figure 38. Population modeling summary for pine marten in Minnesota, 2004. Simulated harvests are based on the previous 3-year average.

Table 15. Pine marten harvest, carcass collection, and pelt price data in Minnesota, 1988-2003.

| | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-----------------|-----------------|
| Season | 11/26- 12/11 | 12/ 2- 12/17 | 12/ 1- 12/16 | 11/30- 12/15 | 11/28- 12/13 | 12/ 4- 12/19 | 12/3- 12/18 | 12/2- 12/17 | 11/30- 12/15 | 11/29- 12/14 | 11/28- 12/13 | 12/4- 12/19 | 12/2- 12/17 | 11/24- 12/9 | 11/30- 12/15 | 11/29- 12/14 |
| Limit | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 ³ | 4 ⁴ | 4 ⁴ | 5 ⁵ | 5 ⁵ |
| Registered take | 2,072 | 2,119 | 1,349 | 656 | 1,601 | 1,436 | 1,527 | 1,500 | 1,625 | 2,261 | 2,299 | 2,423 | 1629 | 1940 | 2839 | 3214 |
| % of available fall population harvested ¹ | 19 | 20 | 15 | 11 | 15 | 15 | 15 | 13 | 16 | 21 | 20 | 18 | 14 | 17 | 19 | 20 |
| No. carcasses examined ² | 1,977 | 1,014 | 1,375 | 716 | 1,661 | 1,396 | 1,452 | 1,393 | 1,372 | 2,238 | 1,577 | 2,013 | 1598 | 1895 | 2451 | 2391 |
| % juveniles | 66 | 68 | 48 | 74 | 65 | 57 | 58 | 60 | 48 | 61 | 57 | 67 | 56 | 62 | 39 | 48 |
| % 1.7 yrs. | 11 | 12 | 18 | 9 | 18 | 20 | 15 | 18 | 22 | 13 | 18 | 12 | 25 | 15 | 30 | 17 |
| % ≥ 2.7 yrs. | 23 | 20 | 34 | 17 | 17 | 23 | 27 | 22 | 30 | 26 | 25 | 21 | 19 | 23 | 31 | 35 |
| juv.:adult female ratio | 8.6:1 | 9.7:1 | 3.6:1 | 16.1:1 | 15.1:1 | 7.5:1 | 6.4:1 | 8.2:1 | 4.8:1 | 6.2:1 | 6.6:1 | 9.8:1 | 8.9:1 | 11:1 | 3.1:1 | 4.0:1 |
| % male juveniles | 58 | 57 | 59 | 69 | 63 | 61 | 62 | 63 | 62 | 60 | 62 | 65 | 62 | 66 | 57 | 57 |
| % male 1.7 yrs. | 50 | 63 | 54 | 71 | 70 | 71 | 76 | 68 | 69 | 60 | 66 | 66 | 69 | 73 | 63 | 65 |
| % male ≥ 2.7 yrs. | 66 | 65 | 61 | 72 | 75 | 67 | 67 | 66 | 67 | 63 | 65 | 67 | 66 | 75 | 61 | 66 |
| % males overall | 59 | 59 | 59 | 70 | 66 | 64 | 66 | 65 | 65 | 61 | 63 | 66 | 64 | 69 | 60 | 62 |
| Pelt price: male | \$50 | \$48 | \$44 | \$40 | \$28 | \$36 | \$34 | \$28 | \$34 | \$28 | \$20 | \$25 | \$28 | \$24 | \$28 | \$30 |
| female | \$43 | \$47 | \$41 | \$27 | \$25 | \$30 | \$28 | \$21 | \$29 | \$22 | \$16 | \$21 | \$21 | \$23 | \$27 | \$27 |
| Winter track index ⁶ | | | | 183 | 314 | 343 | 273 | 400 | 247 | 231 | 139 | 274 | 210 | 296 | 147 | 216 |

¹ estimated from population model, includes accidental harvests of 40% 1985-1987 and 1991, of 20% 1988-1990 and 1992-1998, and of 15% in 1999 to present.

² may exceed registration totals due to harvests by Indians, accidental catches, etc.

³ "combined" limit in 1999 of 4 marten, not to include more than 2 fisher (limit could be all marten)

⁴ combined limit in 2000 of any combination of marten and fisher totaling 4

⁵ combined limit of any combination of marten and fisher totaling 5.

⁶ population index for winter during/after harvest season.

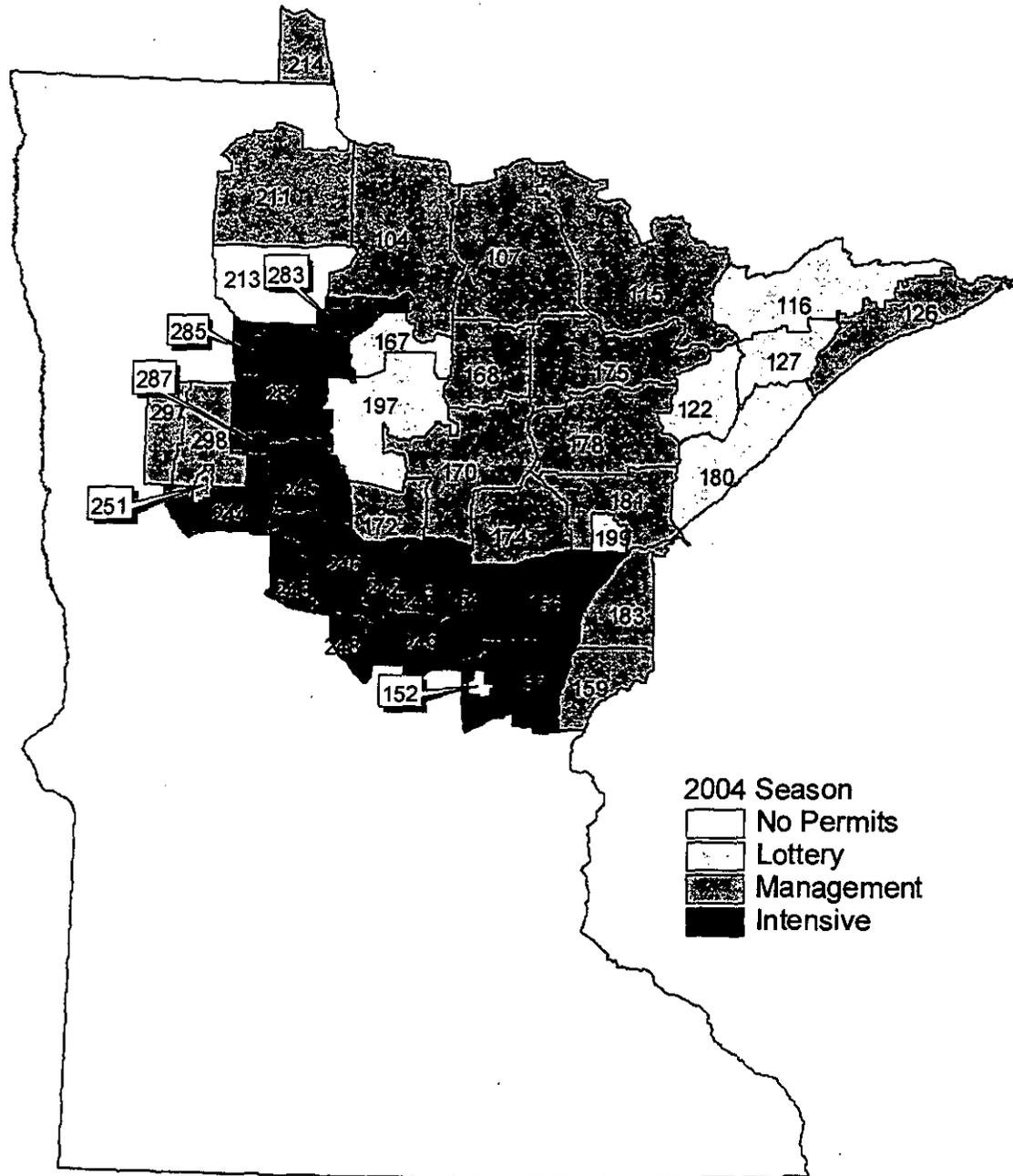


Figure 39. Either sex deer permit areas in the Forested zone, 2004. Permit areas 283 and 285 were combined with 284 for modeling purposes. Permit areas 213, 214, and 287 were not modeled.

Table 16. Spring (pre-fawning) white-tailed deer density as simulated from modeling in each permit area in Minnesota's Forested zone, 1995-2004.

| Permit Area | Area (sq. mi.) | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | Change |
|-------------|----------------|------|------|------|------|------|------|------|------|------|------|--------|
| 104 | 2078 | 8 | 5 | 4 | 5 | 5 | 6 | 6 | 7 | 8 | 7 | -9% |
| 107 | 1895 | 10 | 8 | 7 | 8 | 10 | 12 | 12 | 13 | 14 | 13 | -6% |
| 110 | 198 | 23 | 15 | 11 | 15 | 16 | 17 | 18 | 19 | 19 | 17 | -9% |
| 115 | 1872 | 19 | 14 | 13 | 15 | 17 | 19 | 18 | 20 | 21 | 18 | -14% |
| 116 | 1158 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0% |
| 122 | 620 | 5 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 4 | -10% |
| 126 | 940 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | -14% |
| 127 | 562 | 5 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 4 | -10% |
| 152 | 61 | 16 | 13 | 11 | 13 | 13 | 13 | 13 | 14 | 15 | 17 | 10% |
| 154 | 761 | 15 | 13 | 13 | 15 | 17 | 19 | 18 | 19 | 18 | 16 | -9% |
| 156 | 826 | 12 | 11 | 10 | 11 | 13 | 14 | 14 | 15 | 16 | 16 | -3% |
| 157 | 890 | 20 | 19 | 18 | 21 | 23 | 25 | 25 | 27 | 27 | 27 | -3% |
| 159 | 568 | 23 | 21 | 21 | 24 | 26 | 28 | 26 | 27 | 30 | 30 | 3% |
| 167 | 440 | 23 | 15 | 11 | 15 | 16 | 17 | 18 | 19 | 19 | 17 | -9% |
| 168 | 724 | 12 | 9 | 9 | 11 | 14 | 15 | 14 | 16 | 16 | 17 | 3% |
| 170 | 1315 | 11 | 9 | 9 | 11 | 13 | 15 | 14 | 15 | 16 | 14 | -13% |
| 172 | 451 | 21 | 19 | 18 | 22 | 27 | 31 | 30 | 32 | 34 | 31 | -7% |
| 174 | 835 | 10 | 8 | 8 | 10 | 11 | 12 | 12 | 13 | 14 | 13 | -5% |
| 174 | 835 | 10 | 8 | 8 | 10 | 11 | 12 | 12 | 13 | 14 | 13 | -5% |
| 175 | 1266 | 11 | 8 | 7 | 9 | 10 | 11 | 11 | 12 | 12 | 12 | -6% |
| 178 | 1264 | 11 | 7 | 7 | 8 | 10 | 11 | 11 | 12 | 12 | 12 | -6% |
| 180 | 1059 | 8 | 6 | 5 | 6 | 7 | 8 | 8 | 9 | 10 | 10 | -2% |
| 180 | 1059 | 8 | 6 | 5 | 6 | 7 | 8 | 8 | 9 | 10 | 10 | -2% |
| 181 | 1009 | 14 | 10 | 10 | 11 | 13 | 14 | 14 | 14 | 15 | 14 | -7% |
| 181 | 1009 | 14 | 10 | 10 | 11 | 13 | 14 | 14 | 14 | 15 | 13 | -14% |
| 183 | 707 | 16 | 12 | 11 | 13 | 15 | 16 | 15 | 15 | 15 | 11 | 0% |
| 197 | 960 | 12 | 8 | 7 | 8 | 9 | 10 | 10 | 11 | 11 | 11 | 0% |
| 197 | 960 | 12 | 8 | 7 | 8 | 9 | 10 | 10 | 11 | 11 | 7 | -7% |
| 211 | 1831 | 7 | 4 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 7 | -7% |
| 242 | 209 | 21 | 19 | 18 | 22 | 27 | 31 | 30 | 32 | 34 | 31 | -7% |
| 242 | 209 | 21 | 19 | 18 | 22 | 27 | 31 | 30 | 32 | 34 | 31 | -7% |
| 243 | 314 | 33 | 30 | 27 | 31 | 35 | 39 | 38 | 40 | 41 | 39 | -5% |
| 243 | 314 | 33 | 30 | 27 | 31 | 35 | 39 | 38 | 40 | 41 | 39 | -5% |
| 244 | 586 | 34 | 25 | 23 | 27 | 31 | 36 | 38 | 41 | 43 | 43 | -2% |
| 244 | 586 | 34 | 25 | 23 | 27 | 31 | 36 | 38 | 41 | 43 | 43 | -2% |
| 245 | 583 | 26 | 20 | 19 | 23 | 28 | 32 | 32 | 35 | 36 | 32 | -9% |
| 245 | 583 | 26 | 20 | 19 | 23 | 28 | 32 | 32 | 35 | 36 | 32 | -9% |
| 246 | 758 | 26 | 24 | 21 | 24 | 26 | 29 | 27 | 28 | 29 | 28 | -5% |
| 246 | 758 | 26 | 24 | 21 | 24 | 26 | 29 | 27 | 28 | 29 | 28 | -5% |
| 247 | 229 | 21 | 19 | 18 | 22 | 27 | 31 | 30 | 32 | 34 | 31 | -7% |
| 247 | 229 | 21 | 19 | 18 | 22 | 27 | 31 | 30 | 32 | 34 | 31 | -7% |
| 248 | 213 | 19 | 17 | 15 | 19 | 20 | 22 | 21 | 23 | 24 | 24 | -1% |
| 248 | 213 | 19 | 17 | 15 | 19 | 20 | 22 | 21 | 23 | 24 | 24 | -1% |
| 248 | 213 | 19 | 17 | 15 | 19 | 20 | 22 | 21 | 23 | 24 | 24 | -1% |
| 249 | 502 | 15 | 14 | 12 | 15 | 17 | 19 | 18 | 19 | 20 | 19 | -5% |
| 249 | 502 | 15 | 14 | 12 | 15 | 17 | 19 | 18 | 19 | 20 | 19 | -5% |
| 249 | 502 | 15 | 14 | 12 | 15 | 17 | 19 | 18 | 19 | 20 | 19 | -5% |
| 251 | 56 | 26 | 19 | 17 | 19 | 21 | 24 | 24 | 27 | 30 | 29 | -3% |
| 251 | 56 | 26 | 19 | 17 | 19 | 21 | 24 | 24 | 27 | 30 | 29 | -3% |
| 251 | 56 | 26 | 19 | 17 | 19 | 21 | 24 | 24 | 27 | 30 | 29 | -3% |
| 284 | 1531 | 20 | 13 | 11 | 14 | 17 | 19 | 20 | 22 | 23 | 21 | -8% |
| 284 | 1531 | 20 | 13 | 11 | 14 | 17 | 19 | 20 | 22 | 23 | 21 | -8% |
| 284 | 1531 | 20 | 13 | 11 | 14 | 17 | 19 | 20 | 22 | 23 | 21 | -8% |
| 297 | 439 | 4 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 6 | 6% |
| 297 | 439 | 4 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 6 | 6% |
| 297 | 439 | 4 | 3 | 3 | 3 | 4 | 4 | 5 | 5 | 5 | 6 | 6% |
| 298 | 620 | 12 | 9 | 7 | 9 | 10 | 11 | 11 | 13 | 15 | 14 | -3% |
| 298 | 620 | 12 | 9 | 7 | 9 | 10 | 11 | 11 | 13 | 15 | 14 | -3% |
| 298 | 620 | 12 | 9 | 7 | 9 | 10 | 11 | 11 | 13 | 15 | 14 | -3% |

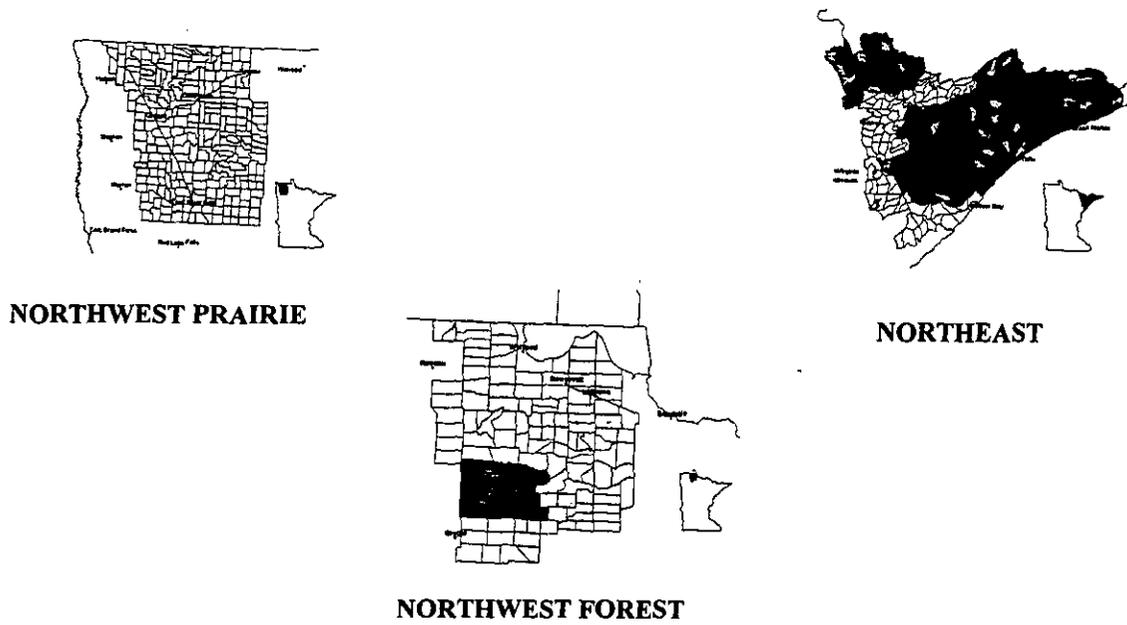


Figure 40. Aerial moose survey area boundaries.

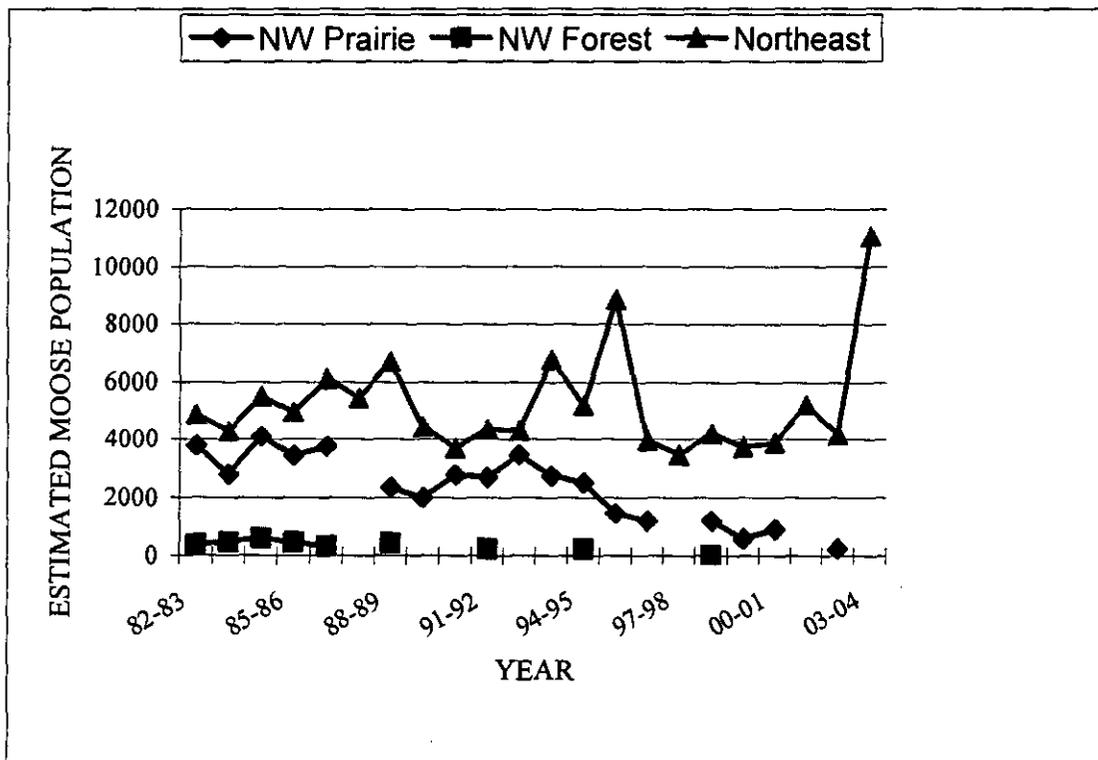


Figure 41. Moose population trends by survey area in northern Minnesota. Trend lines are broken where survey information was not collected.

Table 17. Moose population estimates from aerial moose survey in Minnesota, 1982-83 to 2003-04.

| Year | Population Estimate by Survey Area (+90% CI) | | |
|-----------------------------|--|---------------------|-----------------------|
| | Northwest Prairie | Northwest Forest | Northeast |
| 1982-83 | 3772 (\pm 930) | 370 (\pm 124) | 4877 (\pm 999) |
| 1983-84 | 2784 (\pm 567) | 446 (\pm 139) | 4274 (\pm 925) |
| 1984-85 | 4086 (\pm 518) | 578 (\pm 148) | 4451 (\pm 774) |
| 1985-86 | 3415 (\pm 412) | 433 (\pm 100) | 4918 (\pm 1029) |
| 1986-87 | 3740 (\pm 747) | 307 (\pm 83) | 5994 (\pm 1438) |
| 1987-88 | no survey | no survey | 5492 (\pm 1090) |
| 1988-89 | 2328 (\pm 474) | 419 (\pm 153) | 6938 (\pm 2502) |
| 1989-90 | 1985 (\pm 435) | no survey | 4492 (\pm 1227) |
| 1990-91 | 2771 (\pm 817) | no survey | 3572 (\pm 1670) |
| 1991-92 | 2678 (\pm 629) | 223 (\pm 65) | 4362 (\pm 1323) |
| 1992-93 | 3452 (\pm 640) | no survey | 4292 (\pm 1371) |
| 1993-94 | 2735 (\pm 491) | no survey | 6768 (\pm 1807) |
| 1994-95 | 2497 (\pm 674) | 229 (\pm 88) | 5193 (\pm 1516) |
| 1995-96 | 1436 (\pm 474) | no survey | 8854 (\pm 9513) |
| 1996-97 | 1170 (\pm 359) [†] | no survey | 3960 (\pm 1416) |
| 1997-98 | no survey | no survey | 3464 (\pm 1247) |
| 1998-99 | 1,160 (\pm 384) | 11 (\pm 8) | 4186 (\pm 1423) |
| 1999-00 | 560 (\pm 233) | no survey | 3733 (\pm 942) |
| 2000-01 | 883 (\pm 253) | no survey | 3879 (\pm 1094) |
| 2001-02 | no survey | no survey | 5214 (\pm 1199) |
| 2002-03 | 237 (\pm 173) | no survey | 4161 (\pm 1540) |
| 2003-04 | no survey | no survey | 11,059 (\pm 3649)* |
| change since last survey | | | + 166 % |

* The aerial survey protocol was changed and the survey was conducted using a helicopter rather than a fixed wing aircraft. Increased estimate reflects these changes, not an increase in moose numbers.

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Wetland Wildlife Populations and Research
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Table 18. Estimates of Minnesota mallard breeding populations, 1975-2004.

| Species | Year | Unadjusted population index | Visibility factor | Adjusted population estimate (thousands) |
|---------|------|-----------------------------|-------------------|--|
| Mallard | 1975 | 55,093 | 3.19 | 176 |
| | 1976 | 69,844 | 1.69 | 118 |
| | 1977 | 60,617 | 2.21 | 134 |
| | 1978 | 56,152 | 2.61 | 147 |
| | 1979 | 61,743 | 2.57 | 159 |
| | 1980 | 83,775 | 2.05 | 172 |
| | 1981 | 79,562 | 1.95 | 155 |
| | 1982 | 51,655 | 2.33 | 121 |
| | 1983 | 73,424 | 2.12 | 156 |
| | 1984 | 94,514 | 1.99 | 188 |
| | 1985 | 96,045 | 2.26 | 217 |
| | 1986 | 108,328 | 2.16 | 234 |
| | 1987 | 165,881 | 1.16 | 192 |
| | 1988 | 155,453 | 1.75 | 272 |
| | 1989 | 124,362 | 2.19 | 273 |
| | 1990 | 140,879 | 1.65 | 232 |
| | 1991 | 128,315 | 1.75 | 225 |
| | 1992 | 144,126 | 2.50 | 360 |
| | 1993 | 123,771 | 2.47 | 306 |
| | 1994 | 138,481 | 3.08 | 426 |
| | 1995 | 142,556 | 2.24 | 319 |
| | 1996 | 153,473 | 2.05 | 315 |
| | 1997 | 160,628 | 2.54 | 407 |
| | 1998 | 188,972 | 1.95 | 368 |
| | 1999 | 169,213 | 1.87 | 316 |
| | 2000 | 157,853 | 2.02 | 318 |
| | 2001 | 146,034 | 2.20 | 321 |
| | 2002 | 145,191 | 2.53 | 367 |
| | 2003 | 115,974 | 2.42 | 280 |
| | 2004 | 158,416 | 2.37 | 375 |

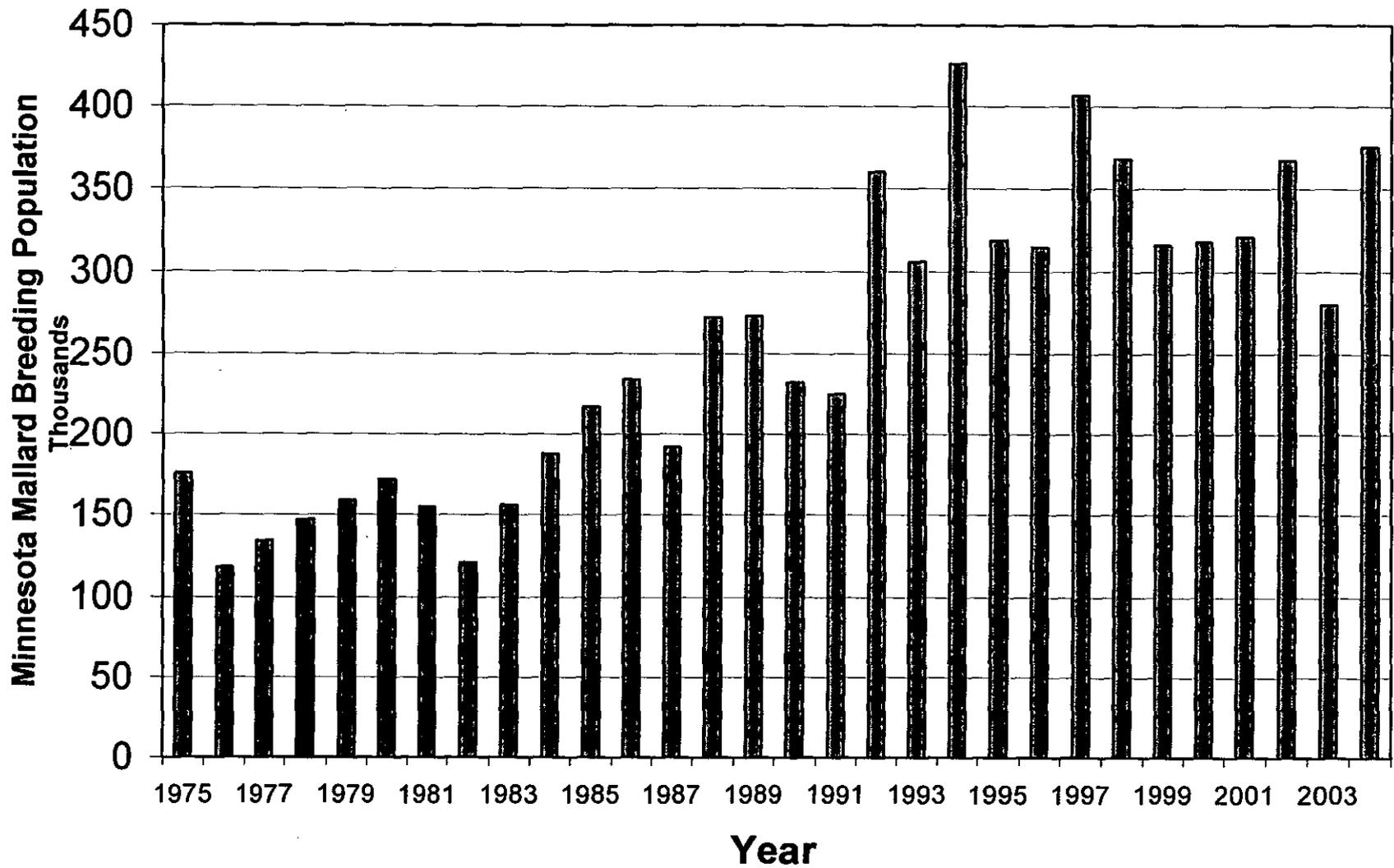


Figure 42. Minnesota mallard Breeding populations, 1975-2004



Table 19. Estimates of Minnesota Blue-winged teal breeding populations, 1975-2004.

| Species | Year | Unadjusted population index | Visibility factor | Adjusted population estimate (thousands) |
|------------------|--------|-----------------------------|-------------------|--|
| Blue-winged teal | 1975 | 45,948 | 3.95 | 181 |
| | 1976 | 89,370 | 4.87 | 436 |
| | 1977 | 37,391 | 3.86 | 144 |
| | 1978 | 28,491 | 8.53 | 243 |
| | 1979 | 46,708 | 5.21 | 243 |
| | 1980 | 50,966 | 6.49 | 331 |
| | 1981 | 64,546 | 2.59 | 167 |
| | 1982 | 42,772 | 4.75 | 203 |
| | 1983 | 42,728 | 2.81 | 120 |
| | 1984 | 89,896 | 2.82 | 254 |
| | 1985 | 90,453 | 2.91 | 264 |
| | 1986 | 68,235 | 2.69 | 183 |
| | 1987 | 102,480 | 1.99 | 204 |
| | 1988 | 101,135 | 2.38 | 240 |
| | 1989 | 90,300 | 3.16 | 286 |
| | 1990 | 107,183 | 3.09 | 331 |
| | 1991 | 91,495 | 2.90 | 265 |
| | 1992 | 93,107 | 3.83 | 357 |
| | 1993 | 64,670 | 4.02 | 260 |
| | 1994 | 70,324 | 5.48 | 385 |
| 1995 | 47,737 | 4.40 | 210 | |
| 1996 | 57,196 | 5.05 | 289 | |
| 1997 | 45,496 | 5.57 | 253 | |
| 1998 | 47,788 | 3.66 | 175 | |
| 1999 | 36,106 | 4.53 | 163 | |
| 2000 | 60,288 | 2.97 | 179 | |
| 2001 | 37,706 | 3.60 | 136 | |
| 2002 | 91,982 | 4.67 | 430 | |
| 2003 | 46,759 | 4.13 | 193 | |
| 2004 | 94,152 | 3.75 | 353 | |

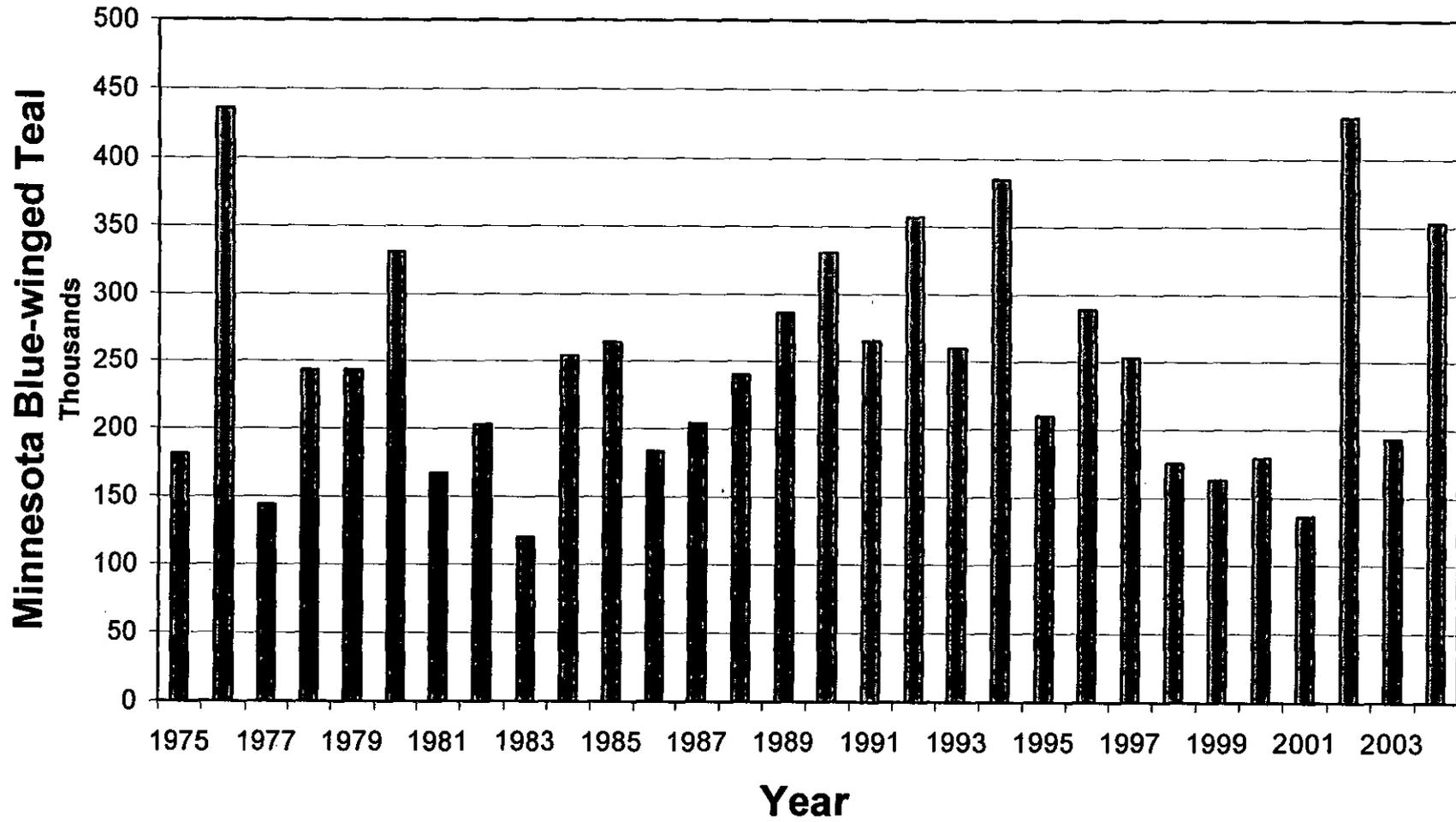


Figure 43. Minnesota blue-winged teal breeding populations, 1975-2004.

Table 20. Canada goose population indices (in thousands) of the eastern prairie flock, 1971-2004 (taken from: U.S. Fish and Wildlife Service/Canadian Wildlife Service, 2004. Waterfowl population status, 2004. July 2004. 53pp).

| Year | Population ^{a,b} |
|---------|---------------------------|
| 1971-72 | 125,000 |
| 1972-73 | 138,000 |
| 1973-74 | 120,000 |
| 1974-75 | 144,000 |
| 1975-76 | 216,000 |
| 1976-77 | 164,000 |
| 1977-78 | 180,000 |
| 1978-79 | 99,000 |
| 1979-80 | n.a. |
| 1980-81 | 125,000 |
| 1981-82 | 132,000 |
| 1982-83 | 155,000 |
| 1983-84 | 136,000 |
| 1984-85 | 158,000 |
| 1985-86 | 195,000 |
| 1986-87 | 203,000 |
| 1987-88 | 209,000 |
| 1988-89 | 210,000 |
| 1989-90 | 232,000 |
| 1990-91 | 212,000 |
| 1991-92 | 202,000 |
| 1992-93 | 157,000 |
| 1993-94 | 211,000 |
| 1994-95 | 205,000 |
| 1995-96 | 190,000 |
| 1996-97 | 199,000 |
| 1997-98 | 126,000 |
| 1998-99 | 207,000 |
| 1999-00 | 275,000 |
| 2000-01 | 215,000 |
| 2001-02 | 216,000 |
| 2002-03 | 229,000 |
| 2003-04 | 291,000 |

^a Surveys conducted in Spring.

^b Indirect or preliminary estimate.

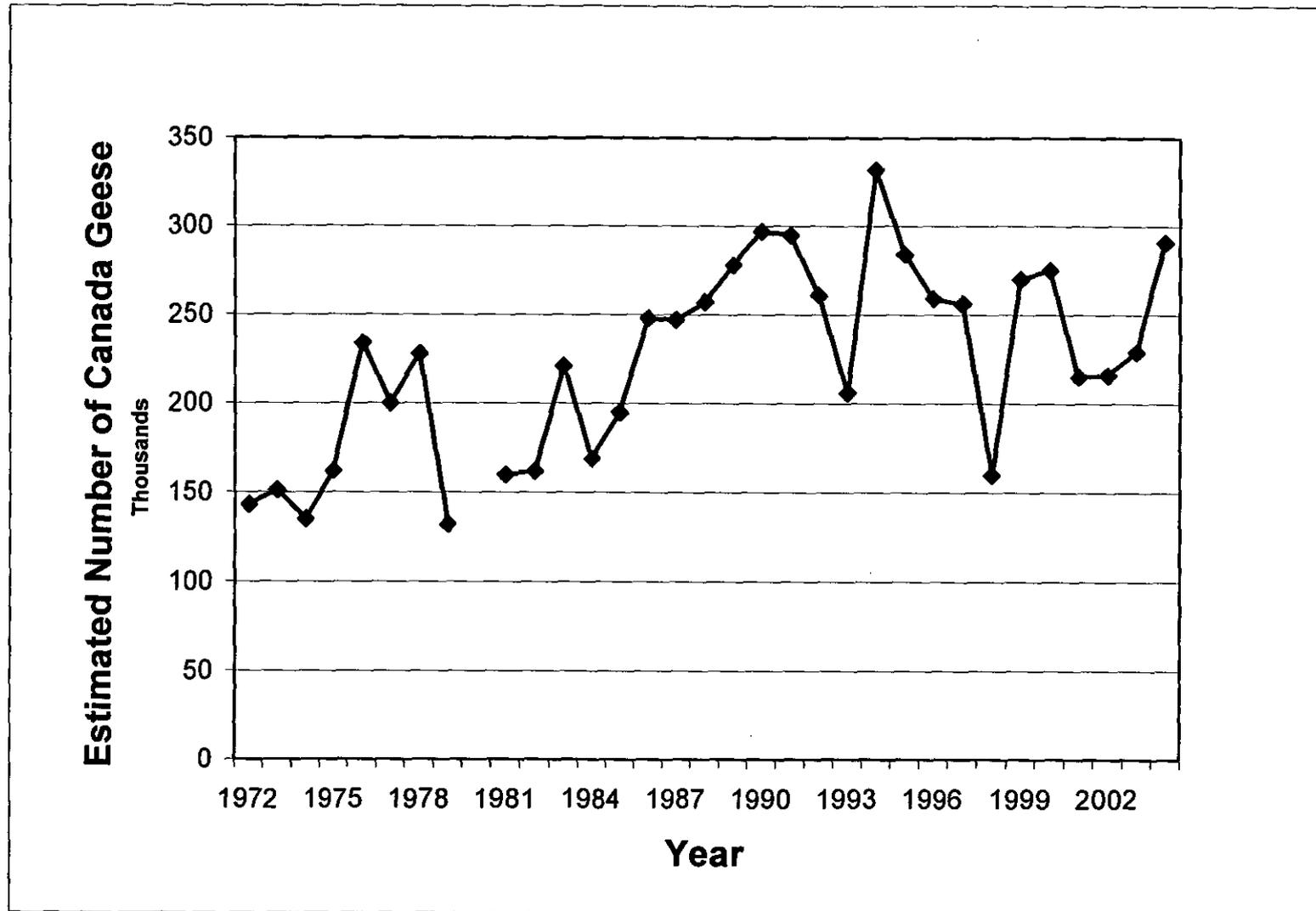


Figure 44. Breeding ground survey estimates of the Eastern Prairie Population of Canada geese, 1972-2004. (from: U.S. Fish and Wildlife Service/Canadian Wildlife Service reports 2004. Waterfowl population status, 2004. July 2004. 53 pp). Surveys conducted in spring. Indirect or preliminary estimates. Data not available for 1980.

Table 21. Estimates for EPP components and the population, 1973-2004. Estimates for geese represented by singles (excluding singles with nests) and pairs are "x 2" and are corrected for visibility (x 1.4). "Productive" geese are singles, pairs with nests or broods, and geese initially seen as a single (assumed to be a goose from a nest) and joined by another goose (assumed to be the gander). The estimate of grouped geese does not include groups larger than 15 birds from interior strata (assumed to be comprised largely of molting giant Canada geese).

| YEAR | Singles (x2) | | Pairs (x2) | | Geese in groups | | Singles + Pairs | | Total EPP* | | Productive | |
|------|--------------|-----------------------------|------------|--------|-----------------|--------|-----------------|--------|------------|--------|------------|--------|
| | Estimate | 95% CI | Estimate | 95% CI | Estimate | 95% CI | Estimate | 95% CI | Estimate | 95% CI | Estimate | 95% CI |
| 73 | 47952 | 8596 | 68630 | 14380 | 21063 | 7073 | 116581 | 18573 | 137644 | 18185 | | |
| 74 | 35597 | 6608 | 61062 | 12716 | 23213 | 6859 | 96659 | 17136 | 119871 | 15887 | | |
| 75 | 63995 | 11549 | 57542 | 9623 | 22815 | 8902 | 121536 | 18313 | 144353 | 17471 | | |
| 76 | 70596 | 13556 | 97791 | 15596 | 48153 | 14684 | 168388 | 22089 | 216541 | 25350 | | |
| 77 | 45459 | 9648 | 65348 | 12810 | 52961 | 14159 | 110808 | 19518 | 163769 | 21393 | | |
| 78 | 27286 | 7131 | 83911 | 12659 | 68529 | 18475 | 111197 | 16696 | 179725 | 23504 | | |
| 79 | 26850 | 6348 | 45989 | 9497 | 26537 | 9808 | 72839 | 12640 | 99377 | 15056 | | |
| 80 | | No survey conducted in 1980 | | | | | | | | | | |
| 81 | 31331 | 6787 | 47534 | 10109 | 46614 | 15183 | 78865 | 14480 | 125479 | 19462 | | |
| 82 | 43020 | 8137 | 53407 | 8762 | 35375 | 12044 | 96427 | 13538 | 131802 | 16971 | | |
| 83 | 27010 | 5836 | 65806 | 10061 | 62324 | 13944 | 92817 | 12215 | 155140 | 18159 | | |
| 84 | 48636 | 8483 | 63369 | 9747 | 23500 | 8539 | 112004 | 14661 | 135505 | 15488 | 60309 | 9722 |
| 85 | 42983 | 9345 | 62613 | 10204 | 52846 | 14754 | 105595 | 16347 | 158442 | 20226 | 62419 | 11276 |
| 86 | 57014 | 10227 | 69365 | 12235 | 68395 | 15997 | 126379 | 18534 | 194773 | 22588 | 63848 | 11466 |
| 87 | 50297 | 9421 | 95557 | 14904 | 57332 | 15707 | 145854 | 19726 | 203186 | 23614 | 59710 | 10864 |
| 88 | 57739 | 8843 | 79245 | 11977 | 72199 | 21870 | 136984 | 17619 | 209183 | 26456 | 65079 | 9942 |
| 89 | 62557 | 9722 | 69545 | 11590 | 78067 | 17802 | 132103 | 16710 | 210169 | 23362 | 66416 | 10085 |
| 90 | 66729 | 10550 | 96669 | 12977 | 68439 | 15962 | 163398 | 18391 | 231836 | 23120 | 79555 | 11652 |
| 91 | 66190 | 12847 | 101237 | 15160 | 44381 | 15107 | 167427 | 23004 | 211809 | 24962 | 80607 | 15048 |
| 92 | 61950 | 9722 | 96456 | 14145 | 44139 | 11414 | 158406 | 19859 | 202545 | 20612 | 73739 | 11445 |
| 93 | 71553 | 10344 | 64690 | 11126 | 21229 | 7739 | 136242 | 16391 | 157473 | 17049 | 82761 | 11339 |
| 94 | 67681 | 11212 | 68556 | 11424 | 74545 | 18790 | 136237 | 17107 | 210782 | 24683 | 77668 | 11816 |
| 95 | 51117 | 8843 | 87859 | 12621 | 65603 | 21468 | 138976 | 17386 | 204578 | 26426 | 58452 | 9869 |
| 96 | 55304 | 9573 | 85671 | 13801 | 49388 | 15283 | 140975 | 19653 | 190363 | 22709 | 66679 | 10952 |
| 97 | 55536 | 9031 | 74578 | 11897 | 68795 | 20295 | 130539 | 18049 | 199336 | 25199 | 72347 | 11673 |
| 98 | 57161 | 10413 | 42137 | 8341 | 26606 | 11056 | 99298 | 15643 | 125904 | 17327 | 64269 | 11507 |
| 99 | 65242 | 10273 | 74250 | 12391 | 67256 | 13132 | 139492 | 18586 | 206748 | 20773 | 76585 | 11590 |
| 2000 | 32800 | 6927 | 97238 | 15795 | 145089 | 34685 | 130038 | 19345 | 275127 | 38736 | 40813 | 7898 |
| 2001 | 38656 | 8762 | 83570 | 13324 | 93135 | 23506 | 122237 | 17247 | 215361 | 28405 | 51899 | 9548 |
| 2002 | 66807 | 10731 | 84866 | 13142 | 64630 | 20161 | 151964 | 19095 | 216303 | 26351 | 81715 | 11997 |
| 2003 | 64806 | 10731 | 57565 | 11169 | 106815 | 29682 | 122382 | 18062 | 229187 | 33480 | 70708 | 11382 |
| 2004 | 41897 | 7265 | 103596 | 16244 | 145160 | 32258 | 145493 | 19835 | 290653 | 36840 | 48088 | 7898 |

*The total EPP estimate and estimate of singles+pairs are derived separately from the estimates of individual components, minor rounding error results.

MN Canada Goose Breeding Population

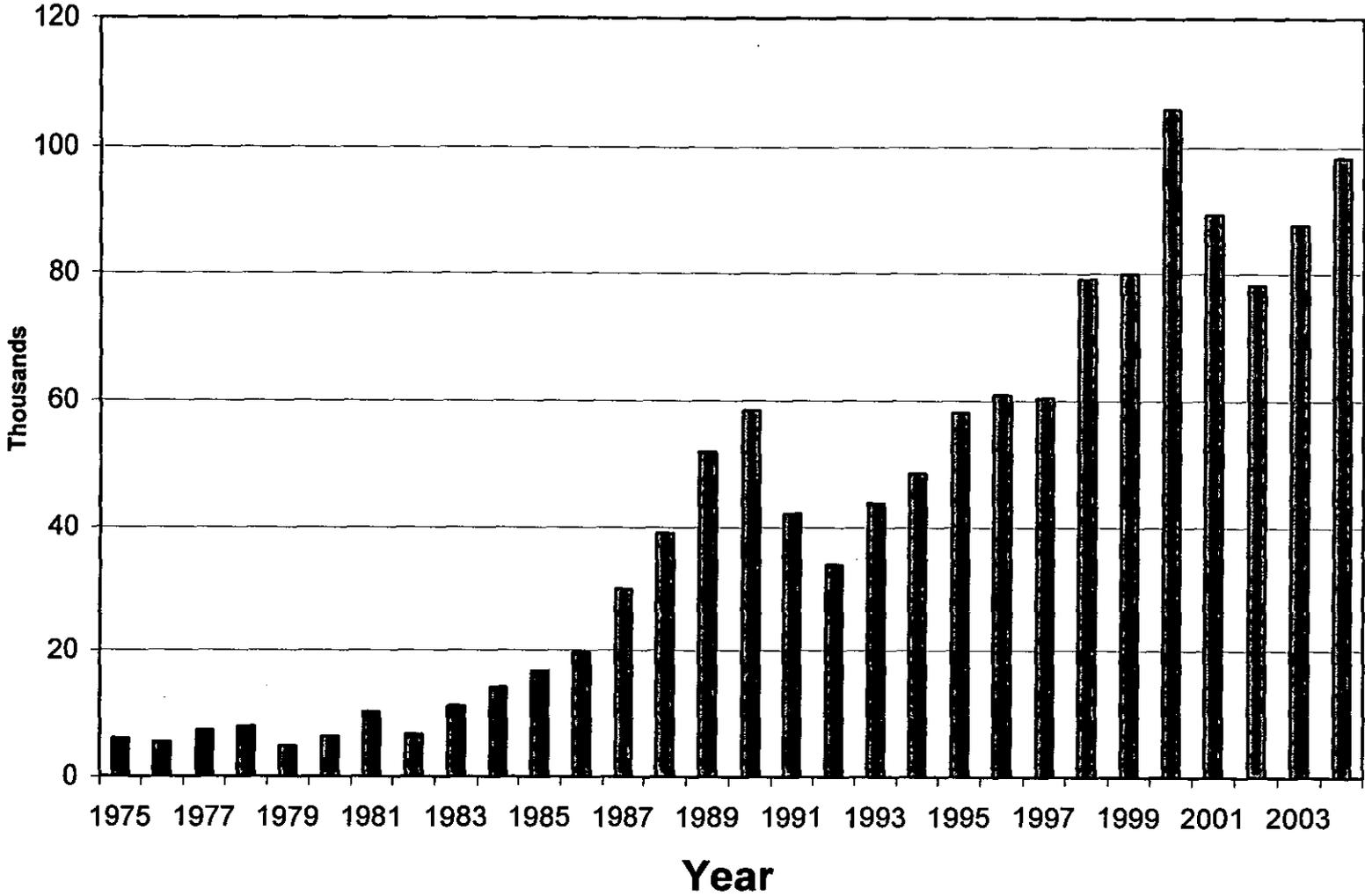


Figure 45. Minnesota Canada goose breeding population, 1975-2004 (from: Cordts, S. 2004 waterfowl breeding population survey for Minnesota. Minnesota Department of Natural Resources and U.S. Fish and Wildlife Service. Unpublished report. 17 pp.)

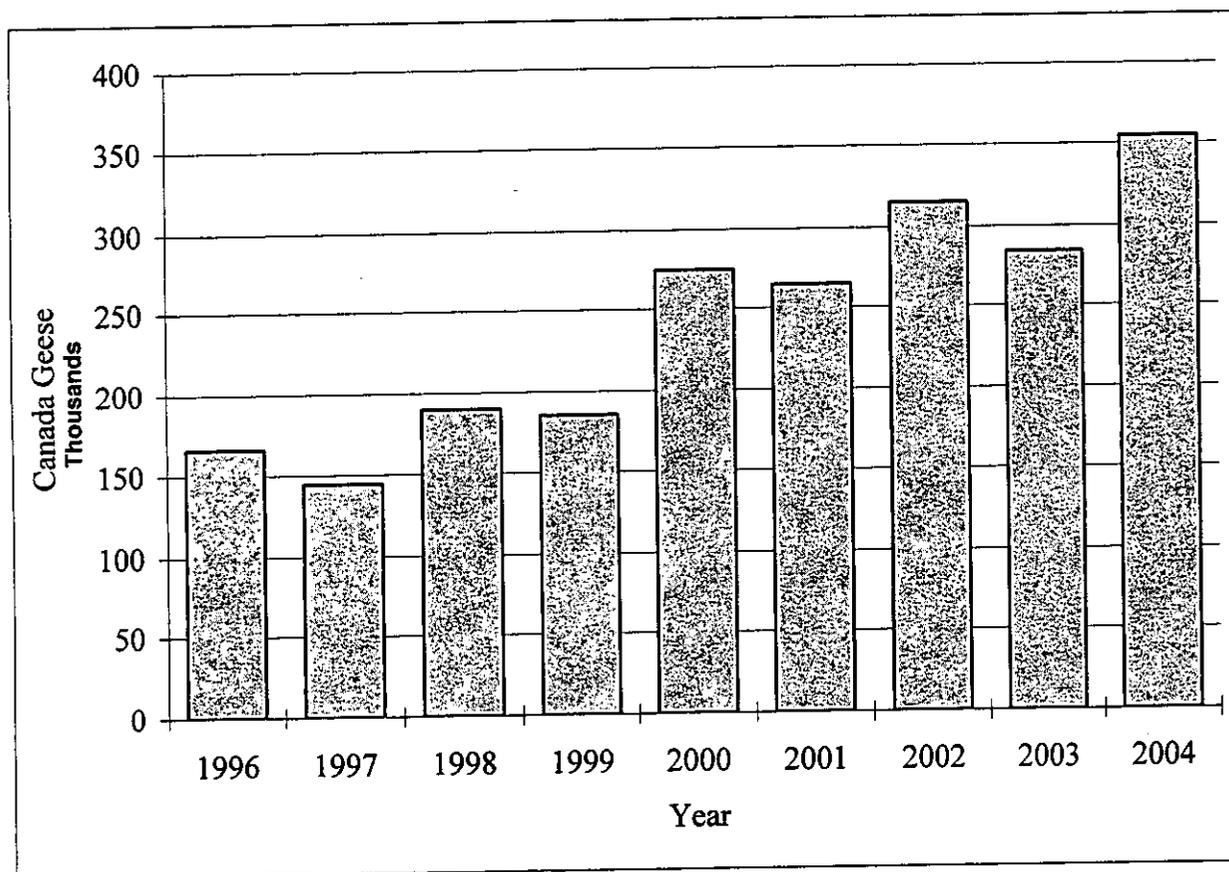


Figure 46. Estimated number of Canada geese in 9 goose management blocks (GMB) 1996-2004. Surveys were from a fixed wing aerial survey during May in Minnesota, 1996-2000. Does not include Metro or Northeast GMBs. 2001- 2004 data are from a helicopter survey during April in Minnesota. Does not include Metro GMB or Lake and Cook counties in the Northeast.

Table 22. Estimated number of May ponds (adjusted for visibility) in Prairie Canada (portions of Alberta, Saskatchewan and Manitoba) 1961-2004 and north-central U.S. (North Dakota, South Dakota and Montana) 1974-2004. (from: U.S. Fish and Wildlife Service/Canadian Wildlife Service, 2004. Waterfowl population status, 2004. July 2004. 53pp).

| Year | Ponds (thousands) | |
|------------------------|-------------------|---------------------------------|
| | Prairie Canada | North Central U.S. ^a |
| 1961 | 1,977 | -- |
| 1962 | 2,369 | -- |
| 1963 | 2,482 | -- |
| 1964 | 3,371 | -- |
| 1965 | 4,379 | -- |
| 1966 | 4,555 | -- |
| 1967 | 4,691 | -- |
| 1968 | 1,986 | -- |
| 1969 | 3,548 | -- |
| 1970 | 4,875 | -- |
| 1971 | 4,053 | -- |
| 1972 | 4,009 | -- |
| 1973 | 2,950 | -- |
| 1974 | 6,390 | 1,841 |
| 1975 | 5,320 | 1,911 |
| 1976 | 4,599 | 1,392 |
| 1977 | 2,278 | 771 |
| 1978 | 3,622 | 1,590 |
| 1979 | 4,859 | 1,522 |
| 1980 | 2,141 | 761 |
| 1981 | 1,443 | 683 |
| 1982 | 3,185 | 1,458 |
| 1983 | 3,906 | 1,259 |
| 1984 | 2,473 | 1,766 |
| 1985 | 4,283 | 1,327 |
| 1986 | 4,025 | 1,735 |
| 1987 | 2,524 | 1,348 |
| 1988 | 2,110 | 791 |
| 1989 | 1,693 | 1,290 |
| 1990 | 2,817 | 691 |
| 1991 | 2,494 | 706 |
| 1992 | 2,784 | 825 |
| 1993 | 2,261 | 1,351 |
| 1994 | 3,769 | 2,216 |
| 1995 | 3,893 | 2,443 |
| 1996 | 5,003 | 2,480 |
| 1997 | 5,061 | 2,397 |
| 1998 | 2,522 | 2,065 |
| 1999 | 3,862 | 2,842 |
| 2000 | 2,422 | 1,524 |
| 2001 | 2,747 | 1,893 |
| 2002 | 1,439 | 1,281 |
| 2003 | 3,522 | 1,668 |
| 2004 | 2,513 | 1,407 |
| Average | 3,368 | 1,524 |
| 2004 | 2,513 | 1,407 |
| % Change in 2004 from: | | |
| 2003 | - 29 | - 16 |
| Long term Average | - 25 | - 8 |

^a No comparable survey data available for the north-central U.S. during 1961-73.

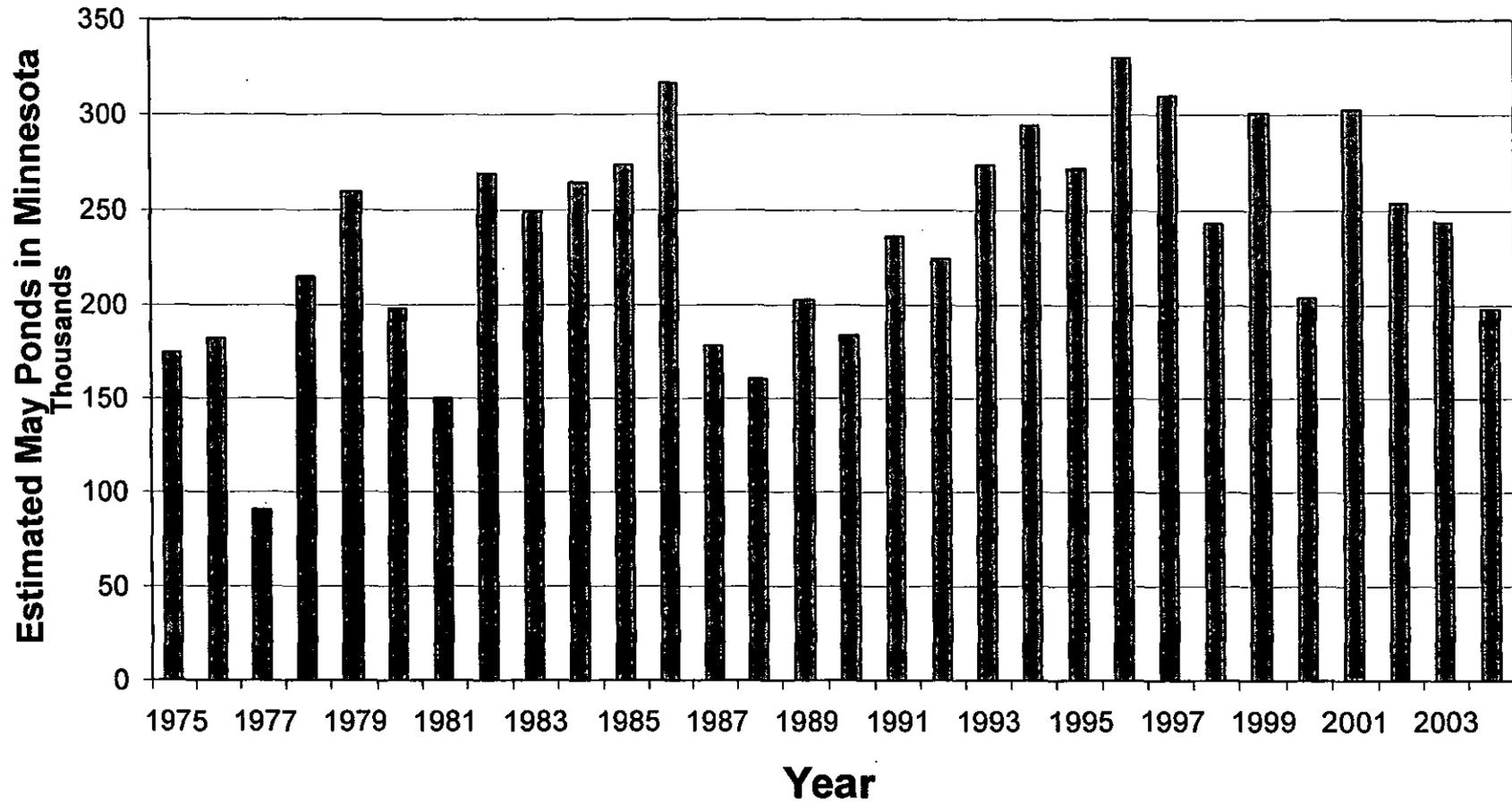


Figure 47. Estimated number of May ponds for Minnesota, 1975-2004.

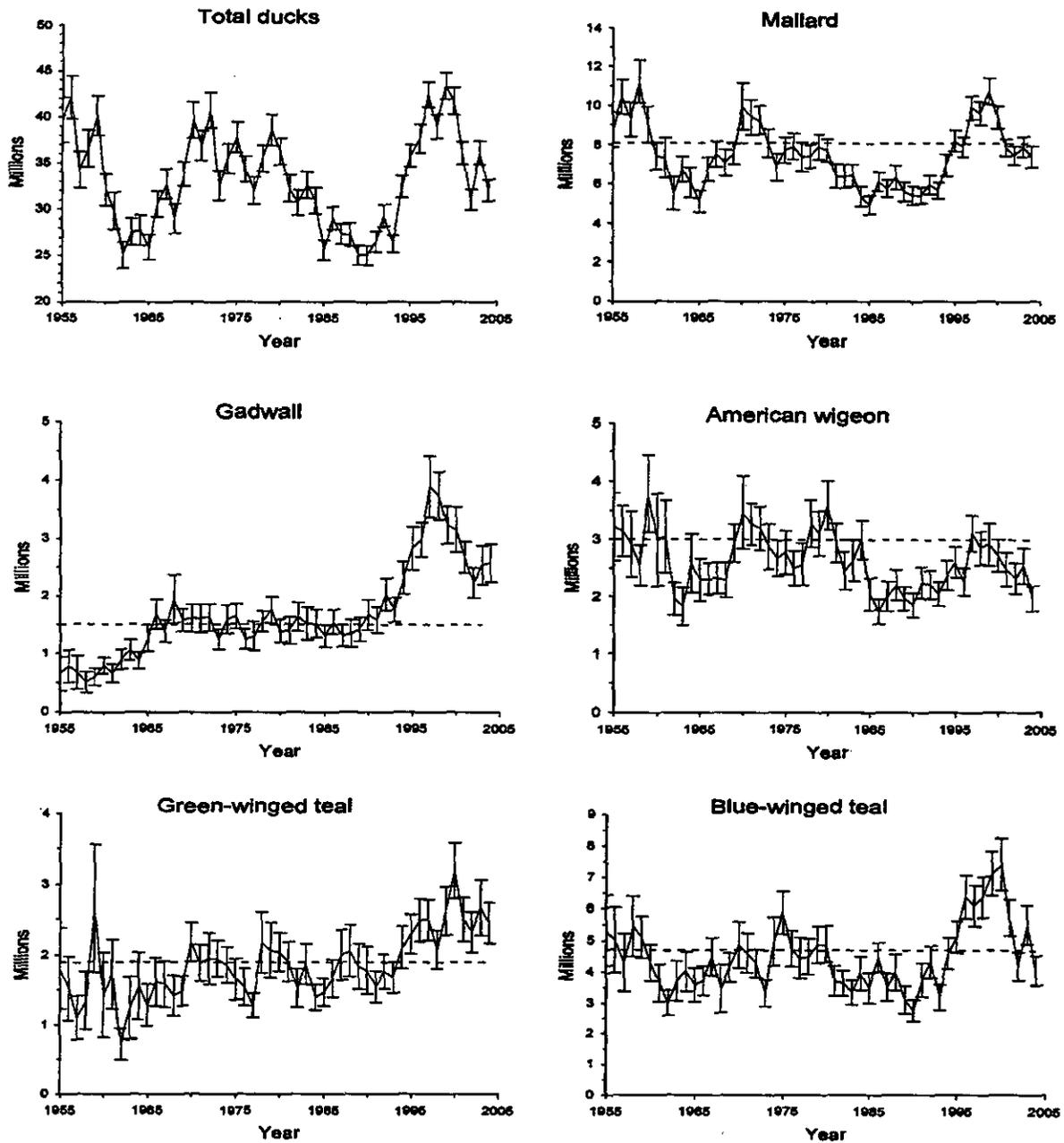


Figure 48. Estimates of North American breeding populations of selected ducks and number of water areas in May in Prairie Canada and Northcentral U.S. (from: U.S. Fish and Wildlife Service/Canadian Wildlife Service 2004. Waterfowl population status, 2004 July 2004. 53 pp).

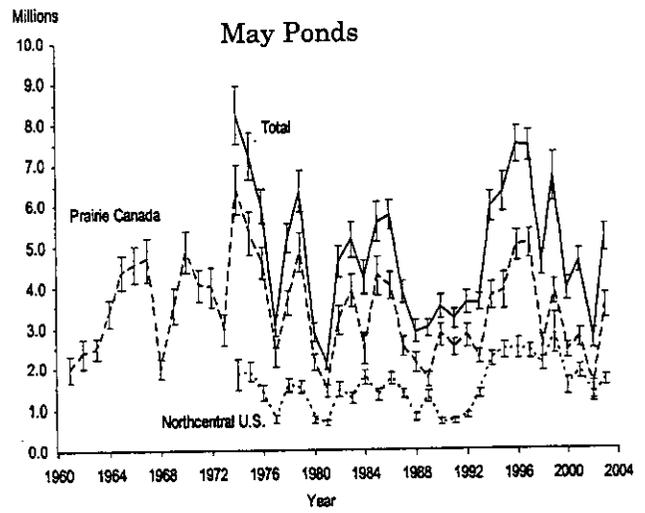
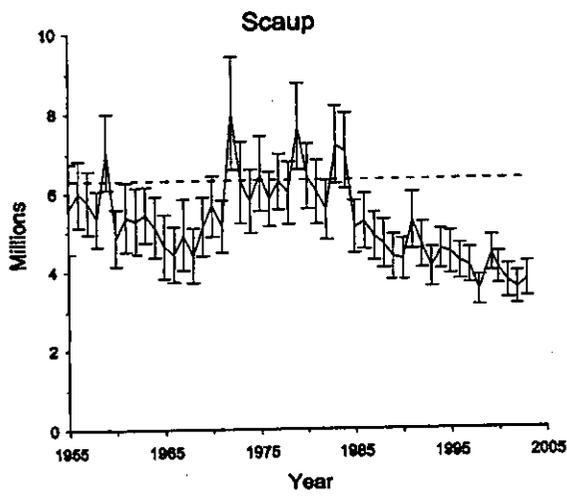
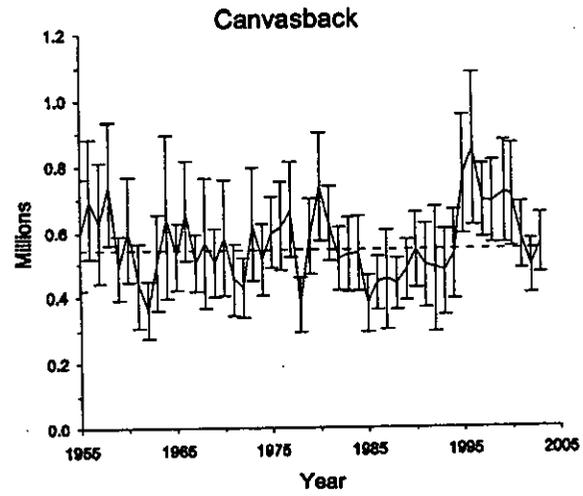
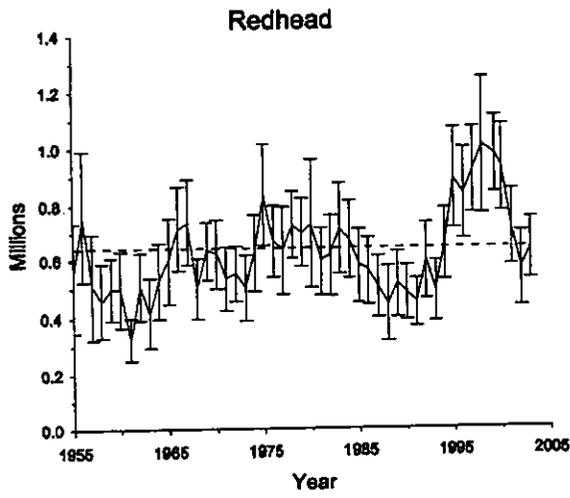
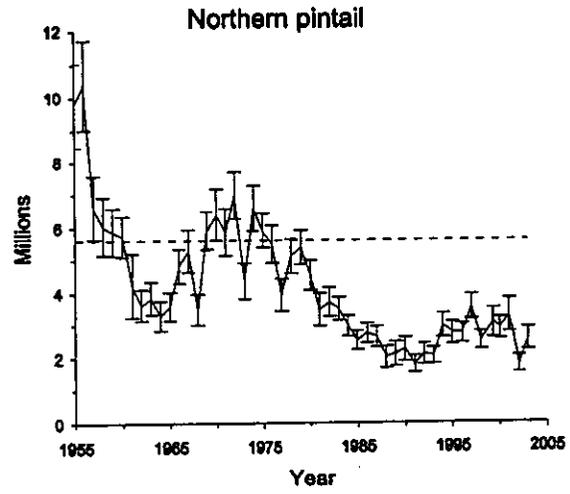
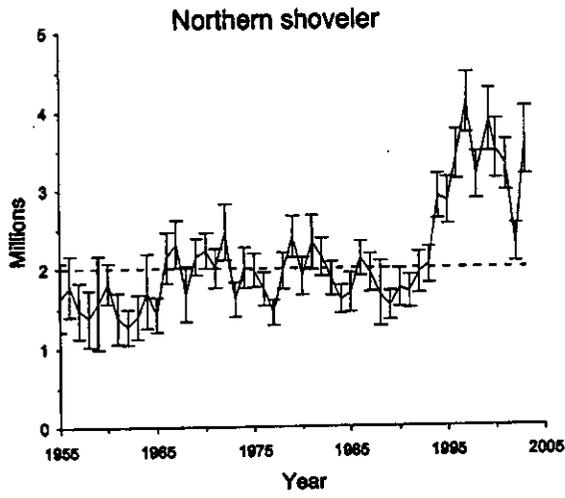


Figure 48. (continued)

Table 23. North American breeding population estimates for 10 species of ducks, 1855-2004. (from: U.S. Fish and Wildlife Service/ Canadian Wildlife Service, 2004. Waterfowl Population Status, 2004. July 2004. 53 pp). In thousands. All duck indices adjusted for visibility bias.

| Year | Mallard | | Gadwall | | American Widgeon | | Green-winged Teal | | Blue-winged Teal | | Northern Shoveler | | Northern Pintail | | Redhead | | Canvasback | | Scaup | | |
|------------------------|---------|-------|---------|-------|------------------|-------|-------------------|-------|------------------|-------|-------------------|-------|------------------|-------|---------|-------|------------|-------|--------|-------|--|
| | N | SE | N | SE | N | SE | N | SE | N | SE | N | SE | N | SE | N | SE | N | SE | N | SE | |
| 1955 | 8777.3 | 457.1 | 651.5 | 149.5 | 3216.8 | 297.8 | 1807.2 | 291.5 | 5305.2 | 567.6 | 1642.8 | 218.7 | 9775.1 | 656.1 | 539.9 | 98.9 | 589.3 | 87.8 | 5620.1 | 582.1 | |
| 1956 | 10452.7 | 461.8 | 772.6 | 142.4 | 3145.0 | 227.8 | 1525.3 | 236.2 | 4997.6 | 527.6 | 1781.4 | 196.4 | 10372.8 | 694.4 | 757.3 | 119.3 | 898.5 | 93.3 | 5994.1 | 434.0 | |
| 1957 | 9298.9 | 443.5 | 666.8 | 148.2 | 2919.8 | 291.5 | 1102.9 | 161.2 | 4299.5 | 467.3 | 1476.1 | 181.8 | 6606.9 | 493.4 | 509.1 | 95.7 | 626.1 | 94.7 | 5766.9 | 411.7 | |
| 1958 | 11234.2 | 555.6 | 502.0 | 89.6 | 2551.7 | 177.9 | 1347.4 | 212.2 | 5456.6 | 483.7 | 1383.8 | 185.1 | 5037.9 | 447.9 | 457.1 | 66.2 | 746.8 | 96.1 | 5350.4 | 355.1 | |
| 1959 | 9024.3 | 466.6 | 590.0 | 72.7 | 3787.7 | 339.2 | 2653.4 | 459.3 | 5099.3 | 332.7 | 1577.6 | 301.1 | 5872.7 | 371.6 | 498.8 | 55.5 | 488.7 | 50.6 | 7037.6 | 492.3 | |
| 1960 | 7371.7 | 354.1 | 784.1 | 68.4 | 2987.6 | 407.0 | 1426.9 | 311.0 | 4293.0 | 294.3 | 1824.5 | 130.1 | 5722.2 | 323.2 | 497.8 | 67.0 | 605.7 | 82.4 | 4868.6 | 362.5 | |
| 1961 | 7330.0 | 510.5 | 654.8 | 77.5 | 3048.3 | 319.9 | 1729.3 | 251.5 | 3655.3 | 398.7 | 1383.0 | 166.5 | 4218.2 | 496.2 | 323.3 | 38.8 | 435.3 | 65.7 | 5380.0 | 442.2 | |
| 1962 | 5535.9 | 426.9 | 905.1 | 87.0 | 1958.7 | 145.4 | 722.9 | 117.6 | 3011.1 | 209.8 | 1269.0 | 113.9 | 3623.5 | 243.1 | 507.5 | 60.0 | 360.2 | 43.8 | 5286.1 | 426.4 | |
| 1963 | 6748.8 | 326.8 | 1055.3 | 89.5 | 1830.8 | 169.9 | 1242.3 | 226.9 | 3723.6 | 323.0 | 1398.4 | 143.8 | 3846.0 | 255.6 | 413.4 | 61.9 | 506.2 | 74.9 | 5438.4 | 357.9 | |
| 1964 | 6063.9 | 385.3 | 873.4 | 73.7 | 2589.6 | 259.7 | 1561.3 | 244.7 | 4020.6 | 320.4 | 1718.3 | 240.3 | 3291.2 | 239.4 | 528.1 | 67.3 | 643.8 | 126.9 | 5131.8 | 386.1 | |
| 1965 | 5131.7 | 274.8 | 1260.3 | 114.8 | 2301.1 | 189.4 | 1282.0 | 151.0 | 3594.5 | 270.4 | 1423.7 | 114.1 | 2591.9 | 221.9 | 599.3 | 77.7 | 522.1 | 52.8 | 4840.0 | 411.2 | |
| 1966 | 6731.9 | 311.4 | 1680.4 | 132.4 | 2318.4 | 139.2 | 1617.3 | 173.8 | 3733.2 | 233.6 | 2147.0 | 163.9 | 4811.9 | 265.6 | 713.1 | 77.6 | 663.1 | 78.0 | 4439.2 | 356.2 | |
| 1967 | 7509.5 | 338.2 | 1384.6 | 97.8 | 3235.5 | 136.2 | 1593.7 | 165.7 | 4491.5 | 305.7 | 2314.7 | 154.6 | 5277.7 | 341.9 | 735.7 | 79.0 | 502.6 | 45.4 | 4927.7 | 456.1 | |
| 1968 | 7089.2 | 340.8 | 1949.0 | 213.9 | 2298.6 | 156.1 | 1430.9 | 146.6 | 3462.5 | 389.1 | 1684.5 | 176.8 | 3489.4 | 244.8 | 499.4 | 53.6 | 563.7 | 101.3 | 4412.7 | 351.8 | |
| 1969 | 7531.6 | 280.2 | 1573.4 | 100.2 | 2941.4 | 168.6 | 1491.0 | 103.5 | 4138.8 | 239.5 | 2158.8 | 117.2 | 5903.9 | 296.2 | 633.2 | 53.6 | 503.5 | 53.7 | 5139.8 | 378.5 | |
| 1970 | 9985.9 | 617.2 | 1608.1 | 123.5 | 3469.9 | 318.5 | 2182.5 | 137.7 | 4861.8 | 372.3 | 2230.4 | 117.4 | 6392.0 | 396.7 | 622.3 | 84.3 | 580.1 | 90.4 | 5662.5 | 391.4 | |
| 1971 | 9416.4 | 459.5 | 1605.6 | 123.0 | 3272.9 | 186.2 | 1889.3 | 132.9 | 4610.2 | 322.8 | 2011.4 | 122.7 | 5847.2 | 368.1 | 534.4 | 57.0 | 450.7 | 55.2 | 5143.3 | 333.8 | |
| 1972 | 9265.5 | 363.9 | 1622.9 | 120.1 | 3200.1 | 194.1 | 1948.2 | 185.8 | 4278.5 | 230.5 | 2468.5 | 182.8 | 6979.0 | 364.5 | 550.9 | 49.4 | 425.9 | 48.0 | 7997.0 | 718.0 | |
| 1973 | 8079.2 | 377.5 | 1245.6 | 90.3 | 2877.9 | 197.4 | 1949.2 | 131.9 | 3332.5 | 220.3 | 1619.0 | 112.2 | 4356.2 | 267.0 | 500.8 | 57.7 | 620.5 | 89.1 | 6257.4 | 523.1 | |
| 1974 | 6880.2 | 351.8 | 1592.4 | 128.2 | 2672.0 | 158.3 | 1664.5 | 131.2 | 4978.2 | 394.6 | 2011.3 | 129.9 | 6598.2 | 345.8 | 626.3 | 70.8 | 512.8 | 56.8 | 5780.5 | 409.8 | |
| 1975 | 7726.9 | 344.1 | 1643.9 | 109.0 | 2778.3 | 192.0 | 1664.8 | 148.1 | 5885.4 | 337.4 | 1980.8 | 106.7 | 5900.4 | 267.3 | 831.9 | 93.5 | 595.1 | 56.1 | 6460.0 | 486.0 | |
| 1976 | 7933.6 | 337.4 | 1244.8 | 85.7 | 2505.2 | 162.7 | 1547.5 | 134.0 | 4744.7 | 294.5 | 1746.1 | 106.9 | 5475.6 | 299.2 | 665.9 | 66.3 | 614.4 | 70.1 | 5818.7 | 348.7 | |
| 1977 | 7397.1 | 381.8 | 1299.0 | 126.4 | 2575.1 | 185.9 | 1285.8 | 87.9 | 4462.8 | 328.4 | 1451.8 | 82.1 | 3926.1 | 246.8 | 634.0 | 79.9 | 664.0 | 74.9 | 6260.2 | 362.8 | |
| 1978 | 7425.0 | 307.0 | 1558.0 | 92.2 | 3282.4 | 208.0 | 2174.2 | 219.1 | 4498.6 | 293.3 | 1975.3 | 116.6 | 5108.2 | 267.8 | 724.6 | 62.2 | 373.2 | 41.5 | 5984.4 | 403.0 | |
| 1979 | 7883.4 | 327.0 | 1757.9 | 121.0 | 3106.6 | 198.2 | 2071.7 | 198.5 | 4875.9 | 297.6 | 2406.5 | 135.6 | 5376.1 | 274.4 | 697.5 | 63.8 | 582.0 | 59.8 | 7857.9 | 548.6 | |
| 1980 | 7706.5 | 307.2 | 1392.9 | 98.8 | 3595.5 | 213.2 | 2049.9 | 140.7 | 4895.1 | 295.6 | 1908.2 | 119.9 | 4508.1 | 228.6 | 728.4 | 116.7 | 734.6 | 83.8 | 6381.7 | 421.2 | |
| 1981 | 6409.7 | 308.4 | 1395.4 | 120.0 | 2946.0 | 173.0 | 1910.5 | 141.7 | 3720.6 | 242.1 | 2333.6 | 177.4 | 3479.5 | 260.5 | 594.9 | 62.0 | 620.8 | 59.1 | 5990.9 | 414.2 | |
| 1982 | 6408.5 | 302.2 | 1633.8 | 126.2 | 2458.7 | 167.3 | 1535.7 | 140.2 | 3657.6 | 203.7 | 2147.6 | 121.7 | 3708.8 | 226.6 | 616.9 | 74.2 | 513.3 | 50.9 | 5532.0 | 380.9 | |
| 1983 | 6456.0 | 286.9 | 1519.2 | 144.3 | 2638.2 | 181.4 | 1875.0 | 148.0 | 3366.5 | 197.2 | 1875.7 | 105.3 | 3510.6 | 178.1 | 711.9 | 83.3 | 526.6 | 58.9 | 7173.8 | 494.9 | |
| 1984 | 5415.3 | 258.4 | 1515.0 | 125.0 | 3002.2 | 174.2 | 1408.2 | 91.5 | 3979.3 | 267.6 | 1618.2 | 91.9 | 2964.8 | 186.8 | 671.3 | 72.0 | 530.1 | 60.1 | 7024.3 | 484.7 | |
| 1985 | 4960.9 | 234.7 | 1303.0 | 98.2 | 2050.7 | 143.7 | 1475.4 | 100.3 | 3502.4 | 246.3 | 1702.1 | 125.7 | 2515.5 | 143.0 | 578.2 | 67.1 | 375.9 | 42.9 | 5098.0 | 333.1 | |
| 1986 | 6124.2 | 241.6 | 1547.1 | 107.5 | 1736.5 | 109.9 | 1674.9 | 136.1 | 4476.8 | 237.1 | 2128.2 | 112.0 | 2739.7 | 152.1 | 559.6 | 60.5 | 438.3 | 41.5 | 5235.3 | 355.5 | |
| 1987 | 5789.9 | 217.9 | 1305.6 | 97.1 | 2012.5 | 134.3 | 2006.2 | 180.4 | 3528.7 | 220.2 | 1950.2 | 118.4 | 2628.3 | 159.4 | 502.4 | 54.9 | 450.1 | 77.9 | 4862.7 | 303.8 | |
| 1988 | 6369.3 | 310.3 | 1349.9 | 121.1 | 2211.1 | 139.1 | 2060.8 | 188.3 | 4011.1 | 290.4 | 1680.9 | 210.4 | 2005.5 | 164.0 | 441.9 | 66.2 | 435.0 | 40.2 | 4671.4 | 309.5 | |
| 1989 | 5645.4 | 244.1 | 1414.6 | 106.6 | 1972.9 | 106.0 | 1841.7 | 166.4 | 3125.3 | 229.8 | 1538.3 | 95.9 | 2111.9 | 181.3 | 510.7 | 58.5 | 477.4 | 48.4 | 4342.1 | 291.3 | |
| 1990 | 5452.1 | 238.6 | 1872.1 | 135.8 | 1860.1 | 108.3 | 1789.5 | 172.7 | 2776.4 | 178.7 | 1759.3 | 118.6 | 2258.6 | 183.3 | 480.9 | 48.2 | 539.3 | 60.3 | 4293.1 | 264.9 | |
| 1991 | 5444.6 | 205.6 | 1583.7 | 111.8 | 2254.0 | 139.5 | 1557.8 | 111.3 | 3763.7 | 270.8 | 1716.2 | 104.6 | 1803.4 | 131.3 | 445.6 | 42.1 | 491.2 | 66.4 | 5254.9 | 364.9 | |
| 1992 | 5976.1 | 241.0 | 2032.8 | 143.4 | 2208.4 | 131.9 | 1773.1 | 123.7 | 4333.1 | 263.2 | 1954.4 | 132.1 | 2098.1 | 161.0 | 695.6 | 69.7 | 481.5 | 97.3 | 4639.2 | 291.9 | |
| 1993 | 5708.3 | 208.9 | 1755.2 | 107.9 | 2053.0 | 109.3 | 1694.5 | 112.7 | 3192.9 | 205.6 | 2046.5 | 114.3 | 2053.4 | 124.2 | 485.4 | 53.1 | 472.1 | 67.6 | 4080.1 | 249.4 | |
| 1994 | 6980.1 | 282.8 | 2318.3 | 145.2 | 2382.3 | 130.3 | 2108.4 | 152.2 | 4616.2 | 259.2 | 2912.0 | 141.4 | 2972.3 | 188.0 | 653.5 | 66.7 | 525.6 | 71.1 | 4529.0 | 253.6 | |
| 1995 | 8269.4 | 287.5 | 2835.7 | 187.5 | 2614.5 | 136.3 | 2300.6 | 140.3 | 5140.0 | 253.3 | 2854.9 | 150.3 | 2757.9 | 177.6 | 888.5 | 90.6 | 770.6 | 92.2 | 4446.4 | 277.6 | |
| 1996 | 7941.3 | 262.9 | 2984.0 | 152.5 | 2271.7 | 125.4 | 2499.5 | 153.4 | 6407.4 | 353.9 | 3449.0 | 165.7 | 2735.9 | 147.5 | 834.2 | 83.1 | 848.5 | 118.3 | 4217.4 | 234.5 | |
| 1997 | 9939.7 | 308.5 | 3897.2 | 264.9 | 3117.6 | 161.6 | 2506.6 | 142.5 | 6124.3 | 330.7 | 4120.4 | 194.0 | 3558.0 | 194.2 | 918.3 | 77.2 | 688.8 | 57.2 | 4112.3 | 224.2 | |
| 1998 | 9640.4 | 301.6 | 3742.2 | 205.6 | 2857.7 | 145.3 | 2087.3 | 138.9 | 6398.8 | 332.3 | 3183.2 | 156.5 | 2520.6 | 136.8 | 1005.1 | 122.9 | 685.9 | 63.8 | 3471.9 | 191.2 | |
| 1999 | 10805.7 | 344.5 | 3235.5 | 163.8 | 2920.1 | 185.5 | 2631.0 | 174.6 | 7149.5 | 364.5 | 3889.5 | 202.1 | 3057.9 | 230.5 | 973.4 | 69.5 | 716.0 | 79.1 | 4411.7 | 227.9 | |
| 2000 | 9470.2 | 290.2 | 3158.4 | 200.7 | 2733.1 | 138.8 | 3193.5 | 200.1 | 7431.4 | 425.0 | 3520.7 | 197.9 | 2907.6 | 170.5 | 926.3 | 78.1 | 706.8 | 81.0 | 4026.3 | 205.3 | |
| 2001 | 7904.0 | 226.9 | 2679.2 | 136.1 | 2493.5 | 149.6 | 2508.7 | 156.4 | 5087.0 | 288.8 | 3313.5 | 166.8 | 3296.0 | 266.6 | 712.0 | 70.2 | 579.8 | 52.7 | 3694.0 | 214.9 | |
| 2002 | 7503.7 | 246.5 | 2235.4 | 135.4 | 2334.4 | 137.9 | 2333.5 | 143.8 | 4206.5 | 227.9 | 2318.2 | 125.6 | 1789.7 | 125.2 | 564.8 | 69.0 | 486.6 | 43.8 | 3524.1 | 210.3 | |
| 2003 | 7849.7 | 267.3 | 2549.0 | 169.9 | 2551.4 | 158.9 | 2678.5 | 199.7 | 5518.2 | 312.7 | 3619.6 | 221.4 | 2558.2 | 174.8 | 636.8 | 56.6 | 557.6 | 48.0 | 3734.4 | 225.5 | |
| 2004 | 7425.3 | 282.0 | 2589.6 | 165.6 | 1981.3 | 114.9 | 2460.8 | 145.2 | 4073.0 | 238.0 | 2810.4 | 163.9 | 2164.6 | 155.2 | 605.3 | 51.5 | 617.2 | 64.6 | 3087.2 | 202.3 | |
| 1955-03 Avg. | 7512.1 | | 1664.0 | | 2637.5 | | 1849.2 | | 4507.9 | | 2135.2 | | 4141.6 | | 625.3 | | 561.8 | | 5249.0 | | |
| % change in 2004 from: | | | | | | | | | | | | | | | | | | | | | |
| 2003 | -6.6 | | 1.6 | | -22.3 | | -8.1 | | -26.2 | | -22.4 | | -14.6 | | -4.9 | | 10.7 | | -17.3 | | |
| 1955-03 Avg. | -1.2 | | 36 | | -33 | | 25 | | -11 | | 24 | | -90 | | -3 | | 9 | | -70 | | |

86

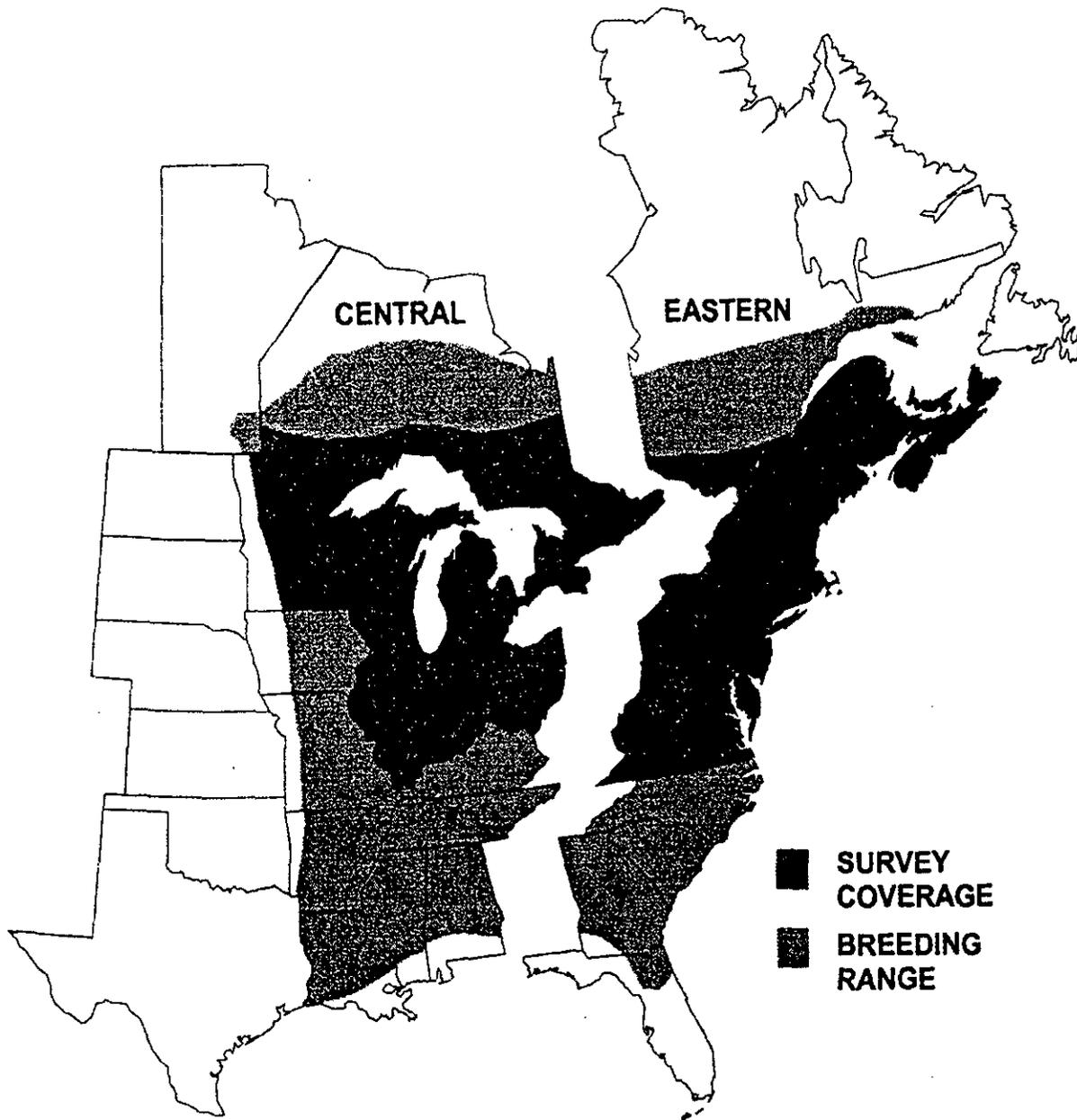


Figure 49. Woodcock management regions, breeding range, singing-ground survey coverage, (from: Kelley, J.R., Jr., 2004. American woodcock population status, 2004. U.S. Fish and Wildlife Service, Laurel, MD. 15pp.)

Table 24. Trends (% change per year ^a) in number of American woodcock heard in singing-ground survey as determined by the estimating equations technique (Link and Sauer, 1994) (from: Kelley, J.R., Jr., 2004. American woodcock population status, 2004. U.S. Fish and Wildlife Service, Office of Migratory Bird Management, Laurel, MD. 15pp).

| Management Unit/State | 2 year N ^c | (2003-04) % Change | Routes Run ^b | 9 year N | (1995-04) % Change | 36 year N | (1968-04) % Change |
|-----------------------|-----------------------|-----------------------|-------------------------|----------|--------------------|-----------|--------------------|
| CENTRAL | 190 | 4.8 | 329 | 397 | -0.3 | 618 | -1.8*** |
| IL | 4 | -11.9*** ^d | 17 | 6 | 14.2 | 24 | 25.1 |
| IN | 0 | | 10 | 6 | -3.9 | 38 | -7.0** |
| MB ^e | 9 | -6.0 | 15 | 21 | -3.7 | 21 | -3.5** |
| MI | 55 | -4.2 | 89 | 109 | -1.0 | 144 | -1.7*** |
| MN | 54 | 1.2 | 72 | 76 | 0.1 | 100 | -1.1** |
| OH | 12 | 133.6* | 21 | 25 | -5.1* | 55 | -6.3*** |
| ON | 9 | 15.9 | 40 | 81 | 1.5 | 136 | -1.8*** |
| WI | 46 | 15.2 | 65 | 73 | -0.2 | 100 | -1.9*** |

^a Mean of weighted route trends within each State, Province, or Region. To estimate the total percent change over several years, use: $100(\% \text{ change}/100+1)^y-100$ where y is the number of years.

Note: extrapolating the estimated trend statistic (% change per year) over time (e.g., 30 years) may exaggerate the total change over the period.

^b Total number of routes surveyed in 2004 for which data were received by 1 June.

^c Number of comparable routes (2003 versus 2004) with at least 2 non-zero counts.

^d Indicates slope is significantly different from zero: * $P \leq 0.10$; ** $P \leq 0.05$; *** $P \leq 0.01$; significance levels are approximate for states where $N < 10$.

^e Manitoba began participating in the Singing-ground survey in 1990.

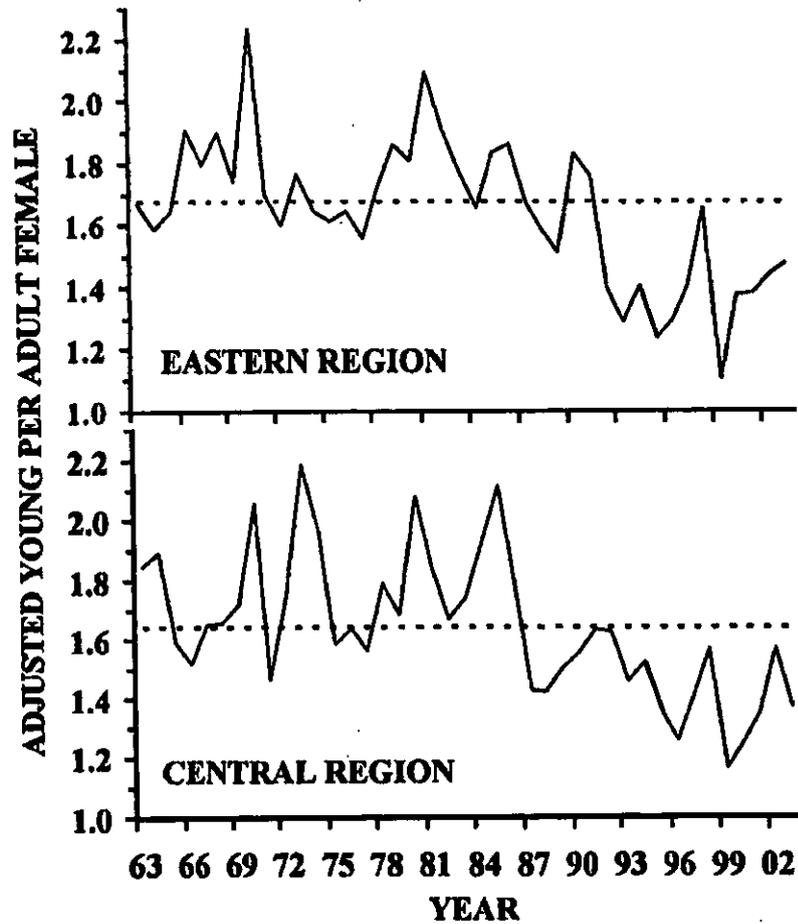


Figure 50. Adjusted index of American woodcock recruitment, 1963-2003. Dashed line is the index based on all 1963-2002 average. (from: Kelley, J.R., Jr. 2004. American woodcock population status, 2004. U.S. Fish and Wildlife Service, Laurel, MD. 15pp).

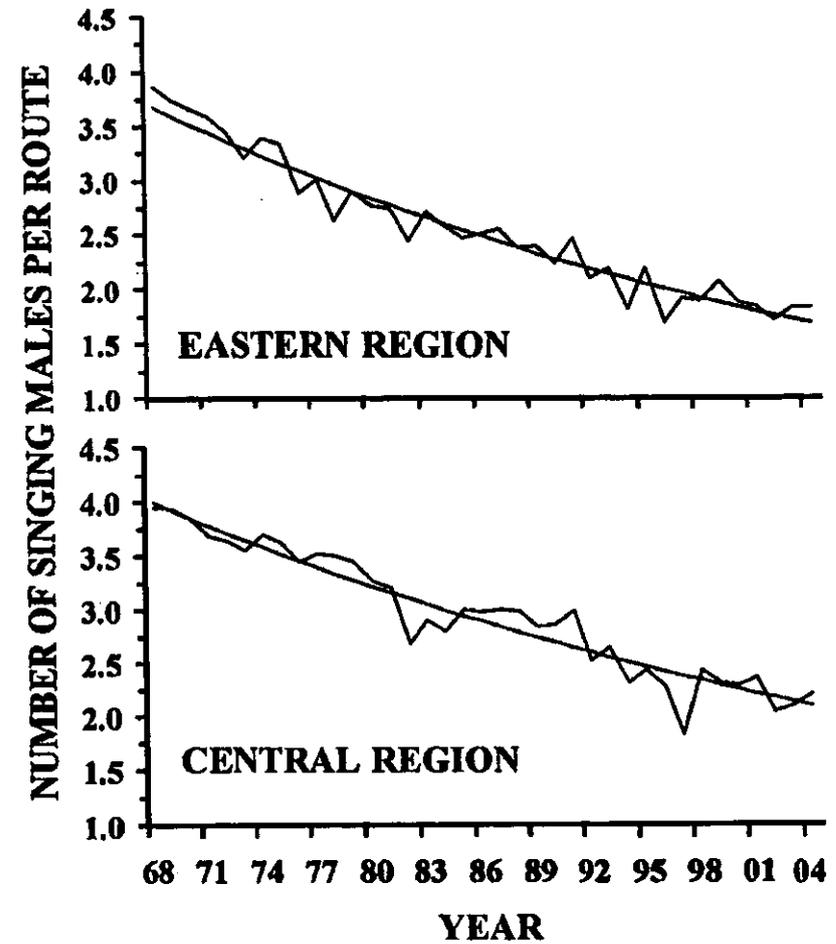


Figure 51. American woodcock singing ground survey long term trends and annual indices, 1968-04. (from: Kelley, J.R., Jr. 2004. American woodcock population status, 2004. U.S. Fish and Wildlife Service, Laurel, MD. 15pp)

Table 25. Preliminary estimates of woodcock hunter numbers, days afield, and harvest for selected states, from the 2002-03 and 2003-04 Harvest Information Program surveys. (from: Kelley, J.R., Jr. 2004. American woodcock population status, 2004. U.S. Fish and Wildlife Service, Laurel, MD. 17pp).

| Management Unit / State | Active woodcock hunters | | Days afield | | Harvest | |
|-------------------------|-------------------------|--------------|---------------|---------------|---------------|---------------|
| | 2002-03 | 2003-04 | 2002-03 | 2003-04 | 2002-03 | 2003-04 |
| Central Region | n.a. ^a | n.a. | 428,200 ± 26% | 369,900 ± 16% | 187,500 ± 24% | 213,500 ± 23% |
| IL | 3,000 ± 90% | 2,400 ± 79% | 6,400 ± 88% | 12,200 ± 112% | 9,000 ± 110% | 2,200 ± 90% |
| IN | 1,700 ± 114% | 700 ± 97% | 24,200 ± 172% | 6,000 ± 134% | 6,900 ± 161% | 1,800 ± 31% |
| MI | 25,200 ± 18% | 35,100 ± 14% | 135,400 ± 23% | 159,000 ± 18% | 78,300 ± 26% | 121,500 ± 30% |
| MN | 8,200 ± 66% | 14,300 ± 38% | 49,300 ± 92% | 48,700 ± 43% | 9,200 ± 31% | 29,900 ± 84% |
| OH | 5,200 ± 108% | 3,400 ± 88% | 23,200 ± 138% | 10,300 ± 86% | 3,100 ± 45% | 2,500 ± 78% |
| WI | 17,600 ± 30% | 16,100 ± 30% | 58,900 ± 26% | 65,600 ± 33% | 33,900 ± 34% | 30,300 ± 35% |

^a Regional estimates of hunter numbers cannot be obtained due to the occurrence of individual hunters being registered in the Harvest Information Program in more than one state.

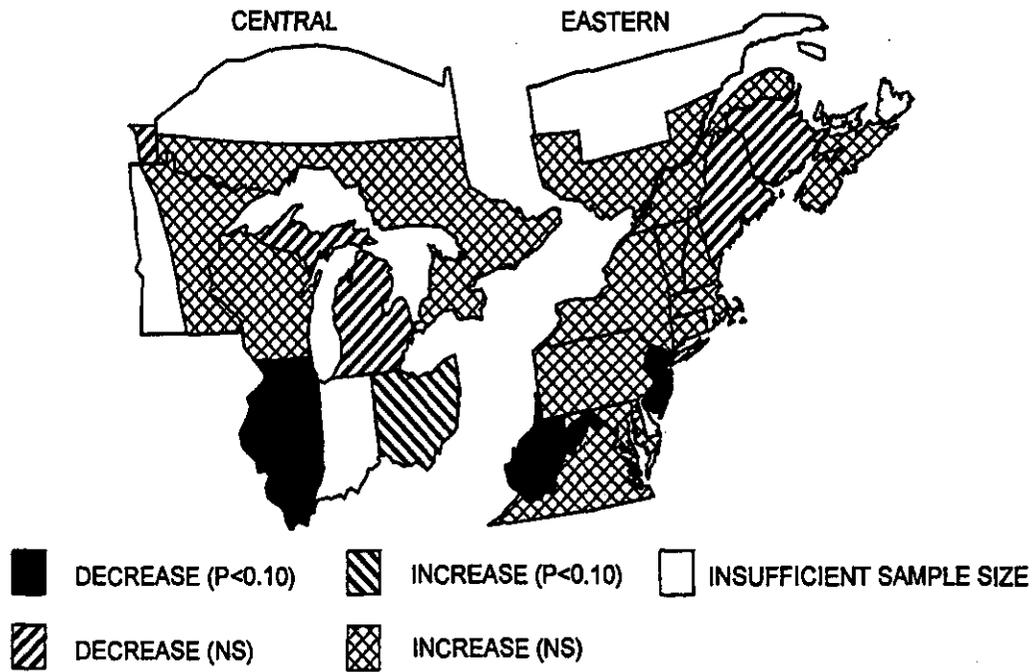


Figure 52. Short-term trends in number of American woodcock heard on the Singing-ground Survey; 2003-04. (from: Kelley, J.R., Jr. 2004. American woodcock population status, 2004. U.S. Fish and Wildlife Service, Laurel, MD. 15pp)

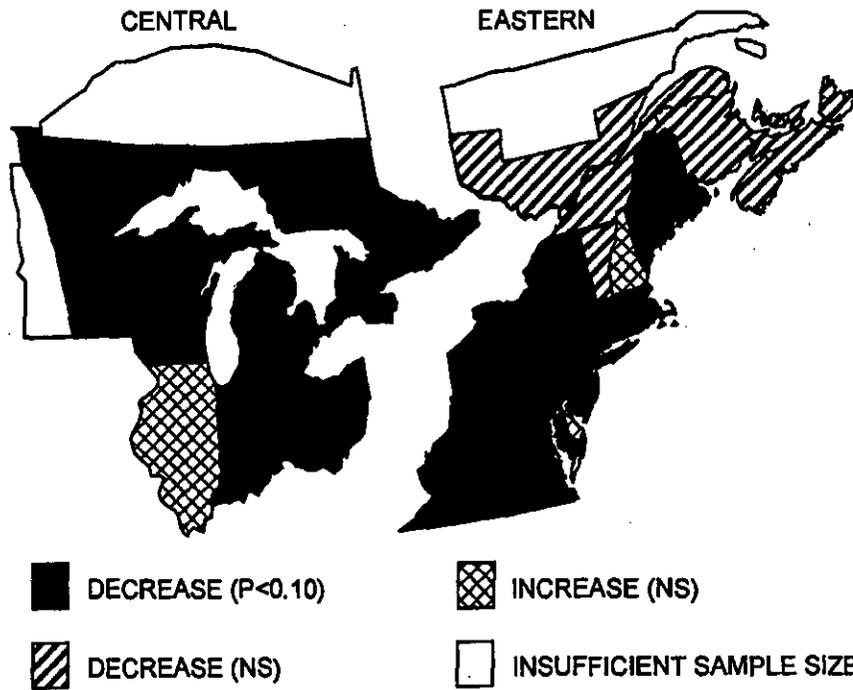


Figure 53. Long-term trends in number of American woodcock heard on the Singing-ground Survey; 1968-04. (from: Kelley, J.R., Jr. 2004. American woodcock population status, 2004. U.S. Fish and Wildlife Service, Laurel, MD. 15pp)

A HISTORY OF MINNESOTA WATERFOWL REGULATIONS,
1915-2004

Wetland Wildlife Populations and Research

102 23rd Street
Bemidji, MN 56601
(218) 755-2973

Table 26. Minnesota Waterfowl Hunting Regulations 1915-2004.

| DUCK SEASON | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|--------|------|--------|--------|----------------|---------------|---------------|--------------------|--------------|-------|-------|------------|----------------------|-----|------|-----|--------|--------|--------|------------|--------------|----------------------|------------------------|-------|
| Dates | | | | | Shooting Hours | | | | Bag Limits | | | | | | | | | | | Mergansers | | Cool Daily Bag | | |
| Year | Open | Day | Close | Length | Open | Start | End | Last Day 4 P.M. | Acqu Fowl | Ducks | | | Species Restrictions | | | | | | | | Daily Bag | | inc. no more hooded | |
| | | | | | | | | | | Daily | Pass. | Bonus | MAL | M&F | BLK | PIN | WDK | CAN | RED | RUD | BUF | SCAUP | | |
| 1915 | 07-Sep | Tues | 01-Dec | 86 | | sunrise | sunset | | 10+15duck | 15 | 45 | | | | | | closed | | | | | | | |
| 1916 | 07-Sep | Thur | 01-Dec | 86 | | sunrise | sunset | | 10+15duck | 15 | 45 | | | | | | closed | | | | | | | |
| 1917 | 16-Sep | Sun | 01-Dec | 77 | | sunrise | sunset | | 10+15duck | 15 | 45 | | | | | | closed | | | | | | | |
| 1918 | 07-Sep | Sat | 01-Dec | 86 | | sunrise | sunset | | 10+15duck | 15 | 45 | | | | | | closed | | | | | | | |
| 1919 | 16-Sep | Tues | 31-Dec | 107 | | sunrise | sunset | | | 15 | 15 | 45 | | | | | closed | | | | | | | 15 |
| 1920 | 16-Sep | Thur | 31-Dec | 107 | | sunrise | sunset | | | 15 | 15 | 45 | | | | | closed | | | | | | | 15 |
| 1921 | 16-Sep | Fri | 31-Dec | 107 | | sunrise | sunset | | | 15 | 15 | 45 | | | | | closed | | | | | | | 15 |
| 1922 | 16-Sep | Sat | 31-Dec | 107 | | sunrise | sunset | | | 15 | 15 | 45 | | | | | closed | | | | | | | 15 |
| 1923 | 16-Sep | Sun | 31-Dec | 107 | | 1/2 hr before | sunset | | | 15 | 15 | 45 | | | | | closed | | | | | | | 15 |
| 1924 | 16-Sep | Tues | 31-Dec | 107 | | 1/2 hr before | sunset | | | 15 | 15 | 45 | | | | | closed | | | | | | | 15 |
| 1925 | 16-Sep | Wed | 31-Dec | 107 | | 1/2 hr before | sunset | | | 12 | 36 | | | | | | closed | | | | | | | 12 |
| 1926 | 16-Sep | Thur | 31-Dec | 107 | | 1/2 hr before | sunset | | | 12 | 36 | | | | | | closed | | | | | | | 12 |
| 1927 | 16-Sep | Fri | 31-Dec | 107 | | 1/2 hr before | sunset | | | 12 | 36 | | | | | | closed | | | | | | | 12 |
| 1928 | 16-Sep | Sun | 31-Dec | 107 | | 1/2 hr before | sunset | | | 12 | 36 | | | | | | closed | | | | | | | 12 |
| 1929 | 16-Sep | Mon | 31-Dec | 107 | | 1/2 hr before | sunset | | | 12 | 36 | | | | | | closed | | | | | | | 12 |
| 1930 | 16-Sep | Tues | 31-Dec | 107 | | 1/2 hr before | sunset | | | 12 | 30 | | | | | | closed | | | | | | | 12 |
| 1931 | 01-Oct | Thur | 31-Dec | 92 | noon | 1/2 hr before | sunset | | | 12 | 30 | | | | | | closed | 10 | 10 | closed | closed | | | 12 |
| 1932 | 01-Oct | Sat | 30-Nov | 61 | noon | 1/2 hr before | sunset | | | 12 | 30 | | | | | | closed | 8 | 8 | closed | closed | | | 12 |
| 1933 | 01-Oct | Sun | 30-Nov | 61 | noon | 1/2 hr before | sunset | | | 12 | 24 | | | | | | closed | 5 | 5 | closed | closed | | | 12 |
| 1934 | 03-Oct | Wed | 11-Nov | 40 | noon | sunrise | sunset | | | 12 | 24 | | | | | | closed | | | closed | closed | | | 10 |
| 1935 | 21-Oct | Mon | 19-Nov | 30 | noon | 7 am | 4 pm | | | 10 | 10 | | | | | | closed | closed | closed | closed | closed | | | 10 |
| 1936 | 10-Oct | Sat | 08-Nov | 30 | noon | 7 am | 4 pm | | | 10 | 10 | | | | | | closed | closed | closed | closed | closed | | | 10 |
| 1937 | 09-Oct | Sat | 07-Nov | 30 | | 7 am | 4 pm | | | 10 | 10 | | | | | | closed | closed | closed | closed | closed | | | 12 |
| 1938 | 01-Oct | Sat | 14-Nov | 45 | | 7 am | 4 pm | | | 10 | 20 | | | | | | closed | 3 | 3 | | | | | 12 |
| 1939 | 01-Oct | Sun | 14-Nov | 45 | | 7 am | 4 pm | | | 10 | 20 | | | | | | closed | 3 | 3 | | | | | 15 |
| 1940 | 01-Oct | Tues | 29-Nov | 60 | | sunrise | 4 pm | | | 10 | 20 | | | | | | closed | 3 | 3 | | | | | 15 |
| 1941 | 01-Oct | Wed | 29-Nov | 60 | | sunrise | 4 pm | | | 10 | 20 | | | | | | closed | | 3 | | | | | 25 |
| 1942 | 26-Sep | Sat | 04-Dec | 70 | | sunrise | sunset | | | 10 | 20 | | | | | | 1 | | 3 | | | | | 25 |
| 1943 | 25-Sep | Sat | 03-Dec | 70 | | 1/2 hr before | sunset | | | 10 | 20 | | | | | | 1 | | 3 | | | | | 25 |
| 1944 | 20-Sep | Wed | 08-Dec | 80 | | 1/2 hr before | sunset | | | 10 | 20 | | | | | | 1 | | | | | | | 25 |
| 1945 | 20-Sep | Thur | 08-Dec | 80 | | sunrise | sunset | | | 10 | 20 | | | | | | 1 | | | | | | 25 | 25 |
| 1946 | 05-Oct | Sat | 18-Nov | 45 | | 1/2 hr before | 1/2 hr before | | | 7 | 14 | | | | | | 1 | | | | | | 25 | 25 |
| 1947 | 07-Oct | Tues | 05-Nov | 30 | noon | sunrise | 1 hr before | | | 4 | 8 | | | | | | 1 | | | | | | 25 | 25 |
| 1948 | 08-Oct | Fri | 06-Nov | 30 | noon | 1/2 hr before | 1 hr before | | | 4 | 8 | | | | | | 1 | | | | | | 25 | 15 |
| 1949 | 07-Oct | Fri | 15-Nov | 40 | noon | 1/2 hr before | 1 hr before | | | 4 | 8 | | | | | | 1 | | | | | | 25 | 10 |
| 1950 | 06-Oct | Fri | 09-Nov | 35 | noon | 1/2 hr before | 1 hr before | | | 4 | 8 | | | | | | 1 | | | | | | 25 | 10 |
| 1951 | 05-Oct | Fri | 18-Nov | 45 | noon | 1/2 hr before | 1 hr before | | | 4 | 8 | | | | | | 1 | | | | | | 25 | 10 |
| 1952 | 01-Oct | Wed | 24-Nov | 55 | noon | 1/2 hr before | 1 hr before | | | 4 | 8 | | | | | | 1 | | | | | | 25 | 10 |
| 1953 | 03-Oct | Sat | 28-Nov | 55 | noon | 1/2 hr before | sunset | | | 4 | 8 | | | | | | closed | | | | | | 1 | 10 |
| 1954 | 02-Oct | Sat | 25-Nov | 55 | noon | 1/2 hr before | sunset | | | 4 | 8 | | | | | | closed | | | | | | 1 | 10 |
| 1955 | 08-Oct | Sat | 18-Dec | 70 | noon | 1/2 hr before | 1/2 hr before | | | 4 | 8 | | | | | | closed | | | | | | 1 | 10 |
| 1956 | 06-Oct | Sat | 29-Nov | 55 | noon | 1/2 hr before | 1/2 hr before | | | 5 | 10 | | | | | | closed | | | | | | 1 | 10 |
| 1957 | 05-Oct | Sat | 13-Dec | 70 | noon | 1/2 hr before | sunset | | | 4 | 8 | | | | | | closed | | | | | | 5 | 10 |
| 1958 | 04-Oct | Sat | 12-Dec | 70 | noon | 1/2 hr before | sunset | | | 4 | 8 | | | | | | closed | | | | | | 5 | 10 |
| 1959 | 07-Oct | Wed | 25-Nov | 50 | noon | sunrise | sunset | | | 3 | 6 | | | | | | 1 | or 1 | or 1 | | | | 5 | 3 |
| 1960 | 08-Oct | Sat | 16-Nov | 40 | noon | 1/2 hr before | sunset | | | 4 | 8 | | | | | | 1 | closed | closed | | | | 5 | 6 |
| 1961 | 14-Oct | Sat | 12-Nov | 30 | noon | sunrise | sunset | | | 2 | 4 | | | | | | 1 | closed | closed | | | | 5 | 6 |
| 1962 | 13-Oct | Sat | 06-Nov | 25 | noon | sunrise | sunset | | | 2 | 4 | 2/4 ls | 1 | | or 1 | | 2 | closed | closed | | | | 5 | 6/6 |
| 1963 | 05-Oct | Sat | 08-Nov | 35 | noon | sunrise | sunset | | | 3 | 6 | | | | | | 2 | closed | closed | | | | 5 | 8/16 |
| 1964 | 03-Oct | Sat | 11-Nov | 40 | noon | sunrise | sunset | | | 4 | 8 | | | | | | 2/2 | 2/2 | or 2/2 | | | | 5/10 | 10/20 |
| 1965 | 09-Oct | Sat | 17-Nov | 40 | noon | sunrise | sunset | | | 4 | 8 | early test | 1/2 | | | 1/2 | 2/2 | 2/2 | or 2/2 | | | | 5/10 | 10/20 |

Table 26. (Continued)

| DUCK SEASON | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|--------|------|--------|--------|---|---------------|--------|--------|--------------------|-------|-------|-------|-----------|-------|-----|------------|-------|-----|--------|--------|-----|-------|--------------|-------------------------|------|----------------------|-------|--|--|--|--|--|--|--|--|--|
| Year | Dates | | | | Shooting Hours | | | | Last Day 4 P.M. | Aque | | Ducks | | | | Bag limits | | | | | | | | Mergansers | | Coop Daily Bag | | | | | | | | | | |
| | Open | Day | Close | Length | Open | Start | End | Fowl | | Daily | Poss. | Bonus | MAL | Mat F | BLR | PIN | WDX | CAN | RED | RUD | BUF | SCAUP | Daily Bag | Inc. no more roosted | | | | | | | | | | | | |
| 1966 | 08-Oct | Sat | 21-Nov | 45 | noon | 1/2 hr before | sunset | | | | 4 | 8 | 2/4 m,ls | 2/4 | | | | 2/4 | 2/2 | | | | | 5/10 | 1/2 | 10/20 | | | | | | | | | | |
| 1967 | 07-Oct | Sat | 15-Nov | 40 | noon | 1/2 hr before | sunset | | | | 4 | 8 | | 2/4 | | | | 1/2 | 1/1 | | | | | 5/10 | 1/2 | 10/20 | | | | | | | | | | |
| 1968 | 05-Oct | Sat | 13-Oct | 9 | noon | 1/2 hr before | sunset | | | | 4 | 6 | | 1/2 | | 2/2 | | 2/4 | 1/1 | or 1/1 | | | | 5/10 | 1/2 | 10/20 | | | | | | | | | | |
| 1969 | 04-Oct | Sat | 12-Nov | 40 | noon | sunrise | sunset | | | | 4 | 8 | 2/4 bt,ls | 1/2 | | | | 2/4 | 1/1 | or 1/1 | | | | 5/10 | 1/2 | 10/20 | | | | | | | | | | |
| 1970 | 03-Oct | Sat | 18-Nov | 45 | noon | 1/2 hr before | sunset | | | | 4 | 8 | 2/4 bt,ls | | | | | 2/4 | 1/1 | or 1/1 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1971 | 02-Oct | Sat | 20-Nov | 50 | noon | 1/2 hr before | sunset | | | | 4 | 8 | 2/4 bt,ls | | | | | 2/4 | 1/1 | or 1/1 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1972 | 01-Oct | Sat | 19-Nov | 50 | noon | 1/2 hr before | sunset | | | | 4 | 8 | 2/4 bt,ls | | | | | 2/4 | closed | closed | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1973 | 01-Oct | Mon | 10-Oct | 10 | noon | 1/2 hr before | 4 pm | | | | 4 | 8 | | | 1/2 | | | 2/4 | closed | closed | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1974 | 02-Oct | Wed | 15-Nov | 45 | noon | 1/2 hr before | 4 pm | | | | 4 | 8 | | 2/4 | | or 2/2 | | 2/4 | 1/1 | or 1/1 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1975 | 01-Oct | Wed | 19-Nov | 50 | noon | 1/2 hr before | 4 pm | | | | 4 | 8 | | 2/4 | | or 2/2 | | 2/4 | 1/1 | or 1/1 | | | | 4/8 | 1/2 | 15/30 | | | | | | | | | | |
| 1976 | 02-Oct | Sat | 20-Nov | 50 | noon | 1/2 hr before | 4 pm | | | | 5 | 10 | | 3/6 | 1/2 | inc 2/4 | | 2/4 | 1/1 | or 1/1 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| | 23-Oct | Sat | 11-Dec | 50 | NORTHERN 40 COUNTIES DELAYED DUE TO FIRE DANGER | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1977 | 01-Oct | Sat | 14-Nov | 45 | noon | 1/2 hr before | sunset | 29-Oct | | | 5 | 10 | | 2/4 | | or 2/4 | | 2/4 | 1/1 | or 1/1 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1978 | 01-Oct | Sun | 19-Nov | 50 | 9 am | 1/2 hr before | sunset | 20-Oct | | | 5 | 10 | | 2/4 | | or 2/4 | | 2/4 | 1/1 | or 1/1 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1979 | 28-Sep | Sat | 17-Nov | 50 | noon | 1/2 hr before | sunset | 19-Oct | | | 5 | 10 | | 3/6 | 2/2 | 1/2 | | 2/4 | 1/1 | or 1/1 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1980 | 04-Oct | Sat | 22-Nov | 50 | noon | 1/2 hr before | sunset | 17-Oct | | | 5 | 10 | | 3/6 | 2/2 | 1/2 | | 2/4 | 1/2 | 1/2 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1981 | 03-Oct | Sat | 21-Nov | 50 | noon | 1/2 hr before | sunset | 18-Oct | | | 5 | 10 | | 3/6 | 2/2 | 1/2 | | 2/4 | 1/2 | 1/2 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1982 | 02-Oct | Sat | 20-Nov | 50 | noon | 1/2 hr before | sunset | 22-Oct | | | 5 | 10 | | 3/6 | 2/2 | 1/2 | | 2/4 | 1/2 | 1/2 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1983 | 01-Oct | Sat | 19-Nov | 50 | noon | 1/2 hr before | sunset | 21-Oct | | | 5 | 10 | | 3/6 | 2/2 | 1/2 | | 2/4 | 1/2 | 1/2 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1984 | 29-Sep | Sat | 17-Nov | 50 | noon | 1/2 hr before | sunset | 19-Oct | | | 5 | 10 | | 3/6 | 2/2 | 1/2 | | 2/4 | 1/2 | 1/2 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1985 | 05-Oct | Sat | 13-Nov | 40 | noon | 1/2 hr before | sunset | 18-Oct | | | 4 | 8 | | 2/4 | 1/2 | 1/2 | 2/4 | 2/4 | 1/2 | 1/2 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1986 | 04-Oct | Sat | 12-Nov | 40 | noon | 1/2 hr before | sunset | 17-Oct | | | 4 | 8 | | 2/4 | 1/2 | 1/2 | 2/4 | 2/4 | closed | 1/2 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1987 | 03-Oct | Sat | 11-Nov | 40 | noon | 1/2 hr before | sunset | 16-Oct | | | 4 | 8 | | 2/4 | 1/2 | 1/2 | 2/4 | 2/4 | closed | 1/2 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1988 | 08-Oct | Sat | 06-Nov | 30 | noon | sunrise | sunset | 21-Oct | | | 3 | 6 | | 2/4 | 1/2 | 1/2 | 1/2 | 2/4 | closed | 1/2 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1989 | 07-Oct | Sat | 05-Nov | 30 | noon | sunrise | sunset | 20-Oct | | | 3 | 6 | | 2/4 | 1/2 | 1/2 | 1/2 | 2/4 | closed | 1/2 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1990 | 06-Oct | Sat | 04-Nov | 30 | noon | sunrise | sunset | 19-Oct | | | 3 | 6 | | 2/4 | 1/2 | 1/2 | 1/2 | 2/4 | closed | 1/2 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1991 | 05-Oct | Sat | 13-Oct | 30 | noon | 1/2 hr before | sunset | 18-Oct | | | 3 | 6 | | 2/4 | 1/2 | 1/2 | 1/2 | 2/4 | closed | 1/2 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| | 17-Oct | Thur | 03-Nov | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 08-Nov | Fri | 10-Nov | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1992 | 03-Oct | Sat | 11-Oct | 30 | noon | 1/2 hr before | sunset | 16-Oct | | | 3 | 6 | | 2/4 | 1/2 | 1/2 | 1/2 | 2/4 | closed | 1/2 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| | 15-Oct | Thur | 01-Nov | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 08-Nov | Fri | 08-Nov | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1993 | 02-Oct | Sat | 10-Oct | 30 | noon | 1/2 hr before | sunset | 22-Oct | | | 3 | 6 | | 2/4 | 1/2 | 1/2 | 1/2 | 2/4 | closed | 1/2 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| | 14-Oct | Thur | 31-Oct | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 05-Nov | Fri | 07-Nov | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1994 | 01-Oct | Sat | 09-Nov | 40 | noon | 1/2 hr before | sunset | 21-Oct | | | 3 | 6 | | 2/4 | 1/2 | 1/2 | 1/2 | 2/4 | 1/2 | 1/2 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1995 | 30-Sep | Sat | 18-Nov | 50 | noon | 1/2 hr before | sunset | 20-Oct | | | 5 | 10 | | 4/8 | 1/2 | 1/2 | 1/2 | 2/4 | 1/2 | 1/2 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1996 | 28-Sep | Sat | 16-Nov | 50 | noon | 1/2 hr before | sunset | 18-Oct | | | 5 | 10 | | 4/8 | 1/2 | 1/2 | 1/2 | 2/4 | 1/2 | 2/4 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1997 | 04-Oct | Sat | 2-Dec | 60 | noon | 1/2 hr before | sunset | 11-Oct | | | 6 | 12 | | 4/8 | 2/4 | 1/2 | 3/6 | 2/4 | 1/2 | 2/4 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1998 | 03-Oct | Sat | 01-Dec | 60 | noon | 1/2 hr before | sunset | 10-Oct | | | 6 | 12 | | 4/8 | 2/4 | 1/2 | 1/2 | 2/4 | 1/2 | 2/4 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 1999 | 02-Oct | Sat | 30-Nov | 60 | noon | 1/2 hr before | sunset | 9-Oct | | | 6 | 12 | | 4/8 | 2/4 | 1/2 | 1/2 | 2/4 | 1/2 | 2/4 | | | | 5/10 | 1/2 | 15/30 | | | | | | | | | | |
| 2000 | 30-Sep | Sat | 28-Nov | 60 | noon | 1/2 hr before | sunset | 7-Oct | | | 6 | 12 | | 4/8 | 2/4 | 1/2 | 1/2 | 2/4 | 1/2 | 2/4 | | | | 3/6 | 5/10 | 1/2 | 15/30 | | | | | | | | | |
| 2001 | 29-Sep | Sat | 27-Nov | 60 | noon | 1/2 hr before | sunset | 6-Oct | | | 6 | 12 | | 4/8 | 2/4 | 1/2 | 1/2 | 2/4 | 1/2/c | 2/4 | | | | 3/6 | 5/10 | 1/2 | 15/30 | | | | | | | | | |
| 2002 | 28-Sep | Sat | 26-Nov | 60 | noon | 1/2 hr before | sunset | 5-Oct | | | 6 | 12 | | 4/8 | 2/4 | 1/2 | 1/2/c | 2/4 | closed | 2/4 | | | | 3/6 | 5/10 | 1/2 | 15/30 | | | | | | | | | |
| 2003 | 27-Sep | Sat | 25-Nov | 60 | noon | 1/2 hr before | sunset | 11-Oct | | | 6 | 12 | | 4/8 | 2/4 | 1/2 | 1/2/c | 2/4 | 1/2/c | 2/4 | | | | 3/6 | 5/10 | 1/2 | 15/30 | | | | | | | | | |
| 2004 | 25-Sep | Sat | 23-Nov | 60 | 9 am | 1/2 hr before | sunset | 9-Oct | | | 6 | 12 | | 4/8 | 2/4 | 1/2 | 1/2/c | 2/4 | 1/2/c | 2/4 | | | | 3/6 | 5/10 | 1/2 | 15/30 | | | | | | | | | |

Table 26. (Continued)

| Year | Goose Season | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|--------|--------|-------------------|--------|-------------------|-----|--------|--------|----------------|------|------|-----------------------|--------|------|-------|----------------|------|-------|------|---------------|-------|--------|--------|---------------|--------------------|-------|-------|-------------|----|
| | Statewide Regulations (excluding special zones) | | | | | | | | | Southeast Zone | | | West & Northwest Zone | | | | WC or LQP Zone | | | | Lac qui Parle | | | | | | | | | |
| | Overall | | | Snow & Blue Goose | | Bag Limit / Poss. | | | Open | Close | Days | Open | Close | Days | Open | Close | Days | Open | Close | Days | Open | Close | Days | Quota | Harvest Index | Date Quota Reached | Days | | | |
| 1958 | 04-Oct | 12-Dec | 70 | | | 5/5 | 2 | or 2 | | | | | | | | | | | | | | | | | | | | | | |
| 1959 | 07-Oct | 15-Dec | 70 | | | 5/5 | 2 | or 2 | | | | | | | | | | | | | | | | | | | | | | |
| 1960 | 08-Oct | 16-Dec | 70 | | | 5/5 | 2 | or 2 | | | | | | | | | | | | | | | | | | | | | | |
| 1961 | 01-Oct | 29-Nov | 60 | | | 5/5 | 2 | or 2 | | | | | | | | | | | | | | | | | | | | | | |
| 1962 | 06-Oct | 04-Dec | 60 | | | 5/5 | 2 | or 2 | | | | | | | | | | | | | | | | | | | | | | |
| 1963 | 05-Oct | 13-Dec | 70 | | | 5/5 | 2 | or 2 | | | | | | | | | | | | | | | | | | | | | | |
| 1964 | 03-Oct | 11-Dec | 70 | | | 5/5 | 2 | or 2 | | | | | | | | | | | | | | | | | | | | | | |
| 1965 | 02-Oct | 10-Dec | 70 | | | 5/5 | 2 | or 2 | | | | | | | | | | | | | | | | | | | | | | |
| 1966 | 01-Oct | 09-Dec | 70 | | | 5/5 | 2 | or 2 | | | | | | | | | | | | | | | | | | | | | | |
| 1967 | 30-Sep | 08-Dec | 70 | | | 5/5 | 2 | or 2 | | | | | | | | | | | | | | | | | | | | | | |
| 1968 | 28-Sep | 06-Dec | 70 | | | 5/5 | 2 | or 2 | | | | | | | | | | | | | | | | | | | | | | |
| 1969 | 04-Oct | 12-Dec | 70 | | | 5/5 | 2 | or 2 | | | | | | | | | | | | | | | | | | | | | | |
| 1970 | 03-Oct | 16-Nov | 45 | | | 5/5 | 1 | or 2 | | | | | | | | | | | | | | | | | | | | | | |
| 1971 | 02-Oct | 10-Oct | 9 | | | 5/5 | 1 | or 2 | 02-Oct | 10-Dec | 70 | 1 | | | | | | | | | | | | | | | | | | |
| 1972 | 01-Oct | 12-Oct | 12 | 01-Oct | 09-Dec | 5/5 | 1/1 | or 2/2 | 01-Oct | 09-Dec | 70 | 1 | | | | | | | | | | | | | | | | | | |
| 1973 | 01-Oct | 21-Oct | 21 | 01-Oct | 18-Nov | 5/5 | 1/1 | or 2/2 | 01-Oct | 09-Dec | 70 | 1 | | | | | | | | | | | | | | | | | | |
| 1974 | 02-Oct | 31-Oct | 30 | 02-Oct | 15-Nov | 5/5 | 1/2 | or 2/2 | 02-Oct | 10-Dec | 70 | 1 | | | | | | | | | | | | | | | | | | |
| 1975 | 01-Oct | 14-Nov | 45 | | | 5/5 | 1/2 | or 2/2 | 01-Oct | 04-Dec | 65 | 1 | | | | | | | | | | | 4000 | | | | | | | |
| 1976 | 02-Oct | 15-Nov | 45 | | | 5/5 | 1/2 | or 2/2 | 02-Oct | 10-Dec | 70 | 1 | | | | | | | | | | | 8000 | 7813 | not reached | 45 | | | | |
| | | 23-Oct | 06-Dec | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1977 | 01-Oct | 14-Nov | 45 | | | 5/5 | 1/2 | or 2/2 | 01-Oct | 09-Dec | 70 | 1 | | | | | | | | | | | 5000 | 5799 | 02-Nov | 33 | | | | |
| 1978 | 01-Oct | 14-Nov | 45 | | | 5/5 | 2/4 | or 2/2 | 01-Oct | 09-Dec | 70 | 2/4 | | | | | | | | | | | 1/4 | 7000 | 6238 | not reached | 45 | | | |
| 1979 | 29-Sep | 17-Nov | 50 | | | 5/5 | 2/4 | or 2/2 | 29-Sep | 07-Dec | 70 | 2/4 | | | | | | | | | | | 1/4 | 7000 | 4988 | not reached | 50 | | | |
| 1980 | 04-Oct | 22-Nov | 50 | | | 5/10 | 2/4 | 2/4 | 04-Oct | 12-Dec | 70 | 2/4 | | | | | | | | | | | 1/4 | 5500 | 5700 | 22-Nov | 50 | | | |
| 1981 | 03-Oct | 21-Nov | 50 | | | 5/10 | 2/4 | 2/4 | 03-Oct | 11-Dec | 70 | 2/4 | | | | | | | | | | | 1/4 | 5500 | 5560 | 09-Nov | 37 | | | |
| 1982 | 02-Oct | 20-Nov | 50 | | | 5/10 | 2/4 | 2/4 | 02-Oct | 10-Dec | 70 | 2/4 | | | | | | | | | | | 1/4 | 5500 | 5479 | not reached | 50 | | | |
| 1983 | 01-Oct | 19-Nov | 50 | | | 5/10 | 1/2 | 2/4 | 01-Oct | 09-Dec | 70 | 2/4 | | | | | | | | | | | 01-Oct | 19-Nov | 50 | 1/2 | 4500 | 2392 | not reached | 50 |
| 1984 | 29-Sep | 17-Nov | 50 | | | 5/10 | 1/2 | 2/4 | 29-Sep | 07-Dec | 70 | 2/4 | | | | | | | | | | | 29-Sep | 17-Nov | 50 | 1/2 | 4500 | 4628 | 06-Nov | 39 |
| 1985 | 28-Sep | 16-Nov | 50 | | | 5/10 | 1/2 | 2/4 | 28-Sep | 06-Dec | 70 | 2/4 | | | | | | | | | | | 28-Sep | 16-Nov | 50 | 1/2 | 4500 | 4592 | 07-Nov | 41 |
| 1986 | 04-Oct | 22-Nov | 50 | | | 5/10 | 1/2 | 2/4 | 04-Oct | 12-Dec | 70 | 2/4 | | | | | | | | | | | 04-Oct | 22-Nov | 50 | 1/2 | 4500 | 4598 | 09-Nov | 37 |
| 1987 | 03-Oct | 11-Nov | 40 | | | 5/10 | 1/2 | 2/4 | 03-Oct | 11-Dec | 70 | 2/4 | | | | | | | | | | | 03-Oct | 01-Nov | 30 | 1/2 | 4000 | 3910 | not reached | 30 |
| 1988 | 01-Oct | 09-Nov | 40 | | | 5/10 | 1/2 | 2/4 | 01-Oct | 09-Dec | 70 | 2/4 | | | | | | | | | | | 08-Oct | 06-Nov | 30 | 1/2 | 4000 | 4959 | 23-Oct | 16 |
| 1989 | 30-Sep | 08-Nov | 40 | 30-Sep | 16-Dec | 7/14 | 1/2 | 2/4 | 30-Sep | 08-Dec | 70 | 2/4 | | | | | | | | | | | 30-Sep | 29-Oct | 30 | 1/2 | 4000 | 4303 | 19-Oct | 20 |
| 1990 | 29-Sep | 17-Nov | 50 | 29-Sep | 17-Dec | 7/14 | 2/4 | 2/4 | 29-Sep | 07-Dec | 70 | 2/4 | | | | | | | | | | | 29-Sep | 07-Nov | 40 | 1/2 | 6000 | 4832 | not reached | 40 |
| 1991 | 28-Sep | 16-Nov | 50 | 28-Sep | 16-Dec | 7/14 | 2/4 | 2/4 | 28-Sep | 06-Dec | 70 | 2/4 | | | | | | | | | | | 28-Sep | 06-Nov | 40 | 1/2 | 6000 | 4799 | not reached | 40 |
| 1992 | 03-Oct | 21-Nov | 50 | 03-Oct | 21-Dec | 7/14 | 2/4 | 2/4 | 03-Oct | 11-Dec | 70 | 2/4 | | | | | | | | | | | 03-Oct | 11-Nov | 40 | 1/2 | 6000 | 3558 | not reached | 40 |
| 1993 | 02-Oct | 20-Nov | 50 | 02-Oct | 20-Dec | 7/14 | 2/4 | 2/4 | 02-Oct | 10-Dec | 70 | 2/4 | 02-Oct | 10-Nov | 40 | 1/2 | | | | | | | 02-Oct | 10-Oct | 9 | 1/2 | 1750 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | 16-Oct | 05-Nov | 21 | | 4000 | 3832 | not reached | 30 |
| 1994 | 01-Oct | 19-Nov | 50 | 01-Oct | 19-Dec | 7/14 | 2/4 | 2/4 | 01-Oct | 09-Dec | 70 | 2/4 | 01-Oct | 09-Nov | 40 | 1/2 | | | | | | | 01-Oct | 09-Oct | 9 | 1/2 | 1750 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | 15-Oct | 04-Nov | 21 | | 4000 | 2876 | not reached | 30 |
| 1995 | 30-Sep | 18-Nov | 50 | 30-Sep | 18-Dec | 7/14 | 2/4 | 2/4 | 30-Sep | 08-Dec | 70 | 2/4 | 30-Sep | 08-Nov | 40 | 1/2 | | | | | | | 30-Sep | 08-Oct | 9 | 1/2 | 7000 | | | |
| | | | | | | | | | | | | | | | | | | | | | | | 14-Oct | 03-Nov | 21 | | 16000 | 12513 | not reached | 30 |

Table 26. (Continued)

| Goose Season | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--------|--------|------|-----------|--------------------|--------|------|-----|--------------------------------------|--------|------|-----|-----------------------------|--------|--------|------|-----------------|--------|--------|------|------------------------------|---------------------------|---------|-------------|------|
| White Geese | | | | | Canada Geese | | | | | | | | | | | | | | | | | | | | |
| Year | Open | Close | Days | Bag Poss. | Remainder of State | | | | Northwest Zone | | | | West Zone & Northwest Zones | | | | WC and LQP Zone | | | | Lad. qu. Parle Harvest Index | | | | |
| | | | | | Open | Close | Days | Bag | Open | Close | Days | Bag | Zone | Open | Close | Days | Bag | Open | Close | Days | Bag | Index | Harvest | Date close | Days |
| 1996 | 28-Sep | 16-Dec | 80 | 7/14 | 28-Sep | 06-Dec | 70 | 2/4 | est. in 1998 | | | | Both | 28-Sep | 06-Nov | 40 | 1/2 | 5-Oct | 13-Oct | 9 | 1/2 | 7000 for the first 9 days | | | |
| | | | | | | | | | | | | | | | | | | 17-Oct | 06-Nov | 21 | | 16000 | 9768 | not reached | 30 |
| 1997 | 04-Oct | 22-Dec | 80 | 10/20 | 04-Oct | 12-Dec | 70 | 2/4 | | | | | Both | 04-Oct | 12-Nov | 40 | 1/2 | 11-Oct | 9-Nov | 30 | 1/2 | 16000 | 7716 | not reached | 30 |
| 1998 | 03-Oct | 21-Dec | 80 | 10/20 | 03-Oct | 01-Nov | 30 | 1/2 | 03-Oct | 11-Dec | 70 | 2/4 | NW | 03-Oct | 22-Oct | 20 | 1/2 | 15-Oct | 3-Nov | 20 | 1/2 | 10000 | 7188 | not reached | 20 |
| | | | | | | | | | | | | | W | 03-Oct | 27-Oct | 25 | 1/2 | | | | | | | | |
| 1999 | 02-Oct | 20-Dec | 80 | 10/20 | 02-Oct | 10-Dec | 70 | 2/4 | incorporated into remainder of state | | | | Both | 02-Oct | 10-Nov | 40 | 1/2 | 9-Oct | 7-Nov | 30 | 1/2 | 16000 | 10336 | not reached | 30 |
| 2000 | 30-Sep | 24-Dec | 86 | 20/40 | 30-Sep | 08-Dec | 70 | 2/4 | | | | | Both | 30-Sep | 08-Nov | 40 | 1/2 | 7-Oct | 5-Nov | 30 | 1/2 | 16000 | 2684 | not reached | 30 |
| 2001 | 29-Sep | 23-Dec | 86 | 20/40 | 29-Sep | 07-Dec | 70 | 2/4 | | | | | Both | 29-Sep | 07-Nov | 40 | 1/2 | 6-Oct | 14-Nov | 40 | 1/2 | 12000 | 7469 | not reached | 40 |
| 2002 | 28-Sep | 22-Dec | 86 | 20/40 | 28-Sep | 06-Dec | 70 | 2/4 | | | | | Both | 28-Sep | 06-Nov | 40 | 1/2 | 5-Oct | 13-Nov | 40 | 1/2 | LQP Zone/Index dropped | | | |
| 2003 | 27-Sep | 21-Dec | 86 | 20/40 | 27-Sep | 05-Dec | 70 | 2/4 | | | | | Both | 27-Sep | 05-Nov | 40 | 1/2 | 11-Oct | 19-Nov | 40 | 1/2 | | | | |
| 2004 | 25-Sep | 19-Dec | 86 | 20/40 | 25-Sep | 23-Nov | 60 | 2/4 | | | | | NW | 25-Sep | 03-Nov | 40 | 1/2 | 21-Oct | 14-Nov | 25 | 1/2 | | | | |
| | | | | | 25-Sep | 23-Nov | 60 | 2/4 | | | | | W | 25-Sep | 29-Oct | 35 | 1/2 | | | | | | | | |

Table 26. (Continued)

| Year | Other Regulations |
|----------|---|
| pre-1915 | No possession past 5 days after close of season. |
| 1915 | Ducks separated from other aquatic fowl limits, only use shotgun discharged from shoulder, law prohibited hunting aquatic fowl on open water. No possession past 5 days after season. Only geese could be taken by rifle. Poss = 50. |
| 1916 | No change from 1915. |
| 1917 | The 1915 law was amended so that wounded aquatic fowl could be pursued and killed on open water. |
| 1918 | Migratory Bird Treaty Act became law July 3, giving primary responsibility for the management of waterfowl to the fed. government. In Nov. the fed. government issued first annual pamphlet on waterfowl regulations for the country. |
| 1919 | Dates set by fed. reg. Gun limit to ten gauge to take waterfowl. Aid of a dog and decoys allowed. Limit inc. ducks, coots, rails, gallinules, snipe, yellowlegs. |
| 1920 | No change. |
| 1921 | No change. |
| 1922 | No change. |
| 1923 | Season limit of 135 ducks. |
| 1924 | No change. |
| 1925 | Not over 12 game birds (inc. waterfowl) were allowed in one day. Possession limit: 36 aquatic fowl. Season limit: 120 ducks. State law limited to 6 the number of decoys which could be used at any one blind. |
| 1926 | No change. |
| 1927 | No change. |
| 1928 | No change. |
| 1929 | Congress passed the Migratory Bird Conservation Act. |
| 1930 | Season limit for ducks 120. |
| 1931 | No change. |
| 1932 | Daily limit not >12 in aggregate of MAL, PIN, WIG, MERG, COOT, and >10 of in aggregate of SCP, GWT, BWT, Cin. Teal, CAN, RED, RNK, SHO, and GAD. Season limit of 120 ducks. |
| 1933 | Daily limit 15 mig. game birds of which not more than 12 can be a mixed bag of ducks and coots, and not > 8 in aggregate of SCP, GWT, BWT, Cin. Teal, CAN, RED, RNK, SHO, OR GAD. season limit 120 ducks. |
| 1934 | No hunting on Mon. and Thur. of each week. Fed. duck stamp required. Not >5 CAN, RHD, SCP, RED, BWT, Cin. teal, SHO, GAD. |
| 1935 | Daily and possession limit of 10 is for all migratory game birds and includes 4 geese. Baiting and the use of live decoys were outlawed in 1935. Not over 15 game birds of all kinds may be taken in any one day. |
| 1936 | Daily and possession limit not over 10 migratory birds in aggregate of all kinds, of which not more than 4 can be geese. Not over 15 birds of all kinds may be taken in any one day. |
| 1937 | Daily limit of mig. birds 15 in aggregate of all kinds of which not more than 10 shall be ducks; 4 geese; 12 Coots; 12 Jacksnipe; 12 Rails and Gallinules. |
| 1938 | Season limit of 120 ducks. Daily limit-15 mig. game birds. |
| 1939 | Daily limit-15 mig. game birds. |
| 1940 | Daily limit-15 mig. game birds. |
| 1941 | Same as 1940 except no restrictions on Ruddy Duck and Canvasback. |
| 1942 | Only 3 of any one or 3 combined of RED and BUF. Four Blue Geese allowed in addition to the 2 geese of regular daily bag. Daily and possession limit of Blue Geese only is 6. |
| 1943 | Only 3 of any one or 3 combined of RED and BUF. Four Blue Geese allowed in addition to the 2 geese of regular daily bag. Daily and possession limit of Blue Geese only is 6. |
| 1944 | Daily duck limit 15 provided 5 are MAL, PIN, WIG (poss. limit 30). Daily snow/blue goose limit of 4 is in addition to 2 other goose limit. |
| 1945 | Daily snow/blue goose limit of 4 in addition to 2 other goose limit. 1st year Merg limit different than duck. |
| 1946 | Two snow/blue geese in addition to 2 of some other kind. |
| 1947 | White-Fronted goose bags combined with Canada Goose bag. |
| 1948 | Management by Flyways was commenced in 1948. |
| 1949 | No change. |
| 1950 | No change. |
| 1951 | No change. |
| 1952 | No change. |
| 1953 | No change. |
| 1954 | Mergs included in duck bag. |
| 1955 | Minnesota delayed opening date by 1 week to protect local breeding ducks. |
| 1956 | Minnesota delayed opening date, Commissioner negotiated 1 extra duck in the bag for a 1 week delay in opening and 15 days off the season length. |
| 1957 | Red-breasted and Common Merganser, 5 daily and, 10 possession which must be included in limit with other ducks. Goose limit may include 2 Canada, 2 W-F, or 1 of each. |
| 1958 | Mergs no longer included in duck bag. |
| 1959 | No change. |
| 1960 | No change. |
| 1961 | Shooting hours noon for both duck (14 Oct) and goose (1 Oct) openers. |
| 1962 | Shooting hours begin at noon on both duck (13 Oct) and goose (8 Oct) openers. Bonus scaup from Oct. 20 to Nov. 6, inclusive. |
| 1963 | No change. |
| 1964 | Shooting hours for geese sunrise to noon in Olmstead, Nobles, Cottonwood, Jackson and Murray counties. No goose hunting permitted in these areas Oct. 3. 2 Redheads or Canvasbacks or 1 of each. |
| 1965 | Teal: 11-13 SEP. Geese hours: sunrise to noon (noon to sunset on opening) in above mentioned counties and portions of Big Stone, Murray, and Nobles. 1st time Home included in mer limit. Coot season 9-Oct-17 Nov. |

Table 26. (Continued)

| Year | Other Regulations |
|------|--|
| 1966 | Geese hours 1/2 hour before to noon (closed Oct. 8) in counties noted in 1965 comment. Bonus Rndu & Scaup from 1-21 Nov. |
| 1967 | Shooting hours 1/2 hour before sunrise to noon for geese in Cottonwood, Jackson, Traverse and portions of Murray and Nobles counties. Coots combined with Moorhens (gallinules). |
| 1968 | Shooting hours 1/2 hour before sunrise to noon for geese in Cottonwood, Jackson, and Traverse counties and portions of Murray and Nobles counties. Coot season 28-Oct to 12-Nov. |
| 1969 | Shooting hours 1/2 hour before sunrise to noon for geese in Jackson, Traverse, and portions of Cottonwood, Murray and Nobles counties. BONUS DUCKS: 2 BWT (4-12 Oct), 2 SCP (1-12 Nov). |
| 1970 | Shooting hours 1/2 hour before sunrise to noon for geese in Jackson and Traverse counties. BONUS DUCKS: 2 BWT (3-11 Oct), 2 SCP (31 Oct-16 Nov). |
| 1971 | Shooting hours 1/2 hour before sunrise to noon for geese in Jackson and Traverse counties. BONUS DUCKS: 2 BWT (2-10 Oct), 2 SCP (1-20 Nov). |
| 1972 | BONUS DUCKS: 2 BWT (1-19 Oct), 2 SCP (1-19 Nov). |
| 1973 | First hen MAL restriction. Season for all geese in SE Zone extends until 9 Dec. |
| 1974 | Closed areas for CAN and RED in effect. |
| 1975 | Closed areas for CAN and RED in effect. |
| 1976 | Closed areas for CAN and RED in effect. |
| | NORTHERN SEASON CHANGED DUE TO FIRE DANGER: in northern 2/3 of state (40 cos.) began 23 Oct, duck end 11 Dec, goose end 6 Dec., LQP quota inc. to 8,000. |
| 1977 | Closed areas for CAN and RED in effect. Steel shot required on WPA, NWR, & WMA. |
| 1978 | Closed areas for CAN and RED in effect. |
| 1979 | Closed areas for CAN and RED in effect. |
| 1980 | Closed areas for CAN and RED in effect. White-fronted goose bag separated from Canada goose bag. |
| 1981 | Closed areas for CAN and RED in effect. |
| 1982 | Closed areas for CAN and RED in effect. |
| 1983 | Closed SE area for CANV in effect. |
| 1984 | Closed SE area for CANV in effect. |
| 1985 | Closed SE area for CANV in effect. Noon shooting hours on both goose and duck opener. Pintail restrictions initiated. |
| 1986 | CANV season closed statewide |
| 1987 | STEEL SHOT REQUIRED STATEWIDE. Special Canada goose hunts: 1-10 Sept in TCGZ (no hunting within 100 yards of surface water); 18-27 Dec in TCGZ and OCGZ. |
| 1988 | WCGZ established. Special Canada goose hunts: 1-10 Sep in TCGZ, 16-25 Dec in TCGZ and OCGZ. |
| 1989 | Special Canada Goose Hunts: 1-10 Sep in TCGZ, FFGZ, and SWBGZ; 15-24 Dec in TCGZ and OCGZ. |
| 1990 | Special Canada Goose Hunts: 1-10 Sep in TCGZ, FFGZ, and SWBGZ; 15-24 Dec in TCGZ and OCGZ; West Central (inc. LQP) Goose Permit required. |
| 1991 | Special Canada Goose Hunts: 1-10 Sep in TCGZ, FFGZ, and SWBGZ; 14-23 Dec in TCGZ and OCGZ. |
| 1992 | Special Canada Goose Hunts: 1-10 Sep in TCGZ, FFGZ, and SWBGZ; 15-24 Dec in TCGZ and OCGZ. |
| 1993 | Waterfowl must be transported with wing and head; orange requirement dropped for waterfowl hunters; NW & W Goose Zones added; SCGH: 4-13 Sep in TC, FF, & SW; 15-24 Dec in TC & OC, 11-20 Dec in FFGZ. |
| 1994 | Canvasback season opened except for Heron Lk complex & Lk Christina. SCGH: 3-12 Sep in TC, FF, & SW; 15-24 Dec in TC & OC, 10-19 Dec in FFGZ. |
| 1995 | Lake Christina open to Canv hunting; Bismuth-Tin shot approved; WC goose permit dropped. SCGH: 2-11 Sep in TC, FF, & SW; 15-24 Dec in TC & OC, 9-18 Dec in FFGZ. LQP harvest index adjusted. |
| 1996 | Youth waterfowl hunt 21 Sep. (youth 15 & under accompanied by nonhunting adult, ducks, merg., coots, & moorhens), Special Canada goose hunt 7-15 Sep. statewide except N.W., bag limit 5 Metro, 4 SW, & 2 in remainder Late CG Dec 14-23 in TCGZ, FFGZ, OCGZ, 2 daily bag. White goose (Snow/Blue & Ross) limits separated from other geese. WF & brant seasons same as CG, 2 each/day, W zone boundary changed. SE goose zone dropped. |
| 1997 | Youth waterfowl hunting day 20 Sep. Special Canada goose hunt 6-15 Sep. statewide except NW, bag 5 in Metro & SW, 2 in remainder, Late CG Dec 13-22 in TCGZ, FF/AGZ, OCGZ, bag 2. 4 P.M. shooting hour period reduced to first 8 days by legislature; Heron Lake complex open to canvasback hunting; Geese may be transported with wing only instead of head and wing. |
| 1998 | Youth waterfowl hunting day 19 Sep. (1 goose added to bag); Special Canada goose hunt 5-15 Sep. statewide except NW, Bag limit 5 except 2 E of I-35 & S. of TCGZ, Over water hunting in W goose zone (inc. WC & LQP) beginning 2nd Saturday of Sept. season; Late CG Dec 12-21 in TCGZ, FF/AGZ, OCGZ, bag limit 2. Reductions in regular goose season due to EPP status, New NE Goose Zone |
| 1999 | Youth waterfowl hunt 18 Sep inc. 1 CGoose except 5 CG in W Zone (inc LQP and WCZ); Sept. Canada goose hunt extended, 4-22 Sep. statewide except NW; first NW season = Sept. 4-15, bag limit 2 CG; Late CG season expanded statewide except LQP & WC, daily bag 5 except new SE Zone limit 2. NE Goose Zone dropped. WF & brant season lengthed to 80 days, brant limit 1. Scaup restrictions initiated. |
| 2000 | Youth waterfowl hunting day 18 Sep inc. 1 CGoose except 5 CG in W Zone (inc LQP and WCZ); Sept. Canada goose hunt 2-22 Sep. statewide except NW Sept. 2-15, bag limit 5 CG except 2 in NW & SE Late CG season statewide (Dec. 9-18, SE=Dec 15-24) except LQP and WC, daily limit 5 except SE Zone limit 2. WF & brant season lengthed to 86 days, brant limit 1. |
| 2001 | Youth waterfowl hunting day 15 Sep inc. 1 CGoose except 5 CG in W Zone (inc LQP and WCZ); Sept. Canada goose hunt 1-22 Sep. statewide except NW Sept. 1-15, bag limit 5 CG except 2 in NW & SE 20-day canvasback season (Oct. 13-Nov.1); Longer season in LQP/WC goose zones, lower quota in LQP; Late CG season statewide (Dec. 8-17, SE=Dec 14-23) except LQP/WC, limit 5 except SE limit 2. |
| 2002 | Youth waterfowl hunting day 14 Sep inc. 1 CGoose except 5 CG in W Zone (inc LQP and WCZ); Sept. Canada goose hunt 1-22 Sep. statewide except NW Sept. 1-15, bag limit 5 CG except 2 in NW & SE Closed canvasback season; 30-day pintail season (Sept. 28-Oct. 27); Late CG season statewide (Dec. 7-16, SE=Dec 13-22) except LQP/WC, daily limit 5 except SE limit 2. Motorized decoy use prohibited to take waterfowl, except geese, on public waters on Youth hunting day and from the opening day through Oct. 5. |
| 2003 | Youth waterfowl hunting day 20 Sep inc. 5 CGoose except 1 CG in NW, TC Metro, and SE zones, Carlos Avery WMA, and Swan Lake area; Sept. Canada goose hunt 8-22 Sep. statewide except NW Sept. 6-15, bag limit 5 CG except 2 in NW & SE; 30-day canvasback season (Oct. 11-Nov 9); 30-day pintail season (Sept. 27-Oct. 26); Late CG season statewide (Dec. 6-15, SE=Dec 12-21) except WC, daily limit 5 except SE limit 2. Motorized decoy use prohibited to take waterfowl, except geese, on public waters on Youth hunting day and from the opening day through Oct. 11., LQP Goose Zone and Harvest Index dropped. |
| 2004 | Youth waterfowl hunting day 18 Sep inc. 5 CGoose except 1 CG in NW, TC Metro, and SE zones, Carlos Avery WMA, and Swan Lake area; Sept. Canada goose hunt 4-22 Sep. statewide except NW Sept. 4-15, bag limit 5 CG except 2 in NW & SE; 30-day canvasback season (Oct. 9-Nov 7); 30-day pintail season (Sept. 25-Oct. 24); Late CG season statewide Dec. 4-13; Southeast Dec 10-19 except WC, daily limit 5 except SE limit 2. Motorized decoy use prohibited to take waterfowl, except geese, on public waters on Youth hunting day and from the opening day through Oct. 9. |

HUNTING HARVEST STATISTICS

Division of Wildlife
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Saint Paul, MN 55155 - 4007
(651) 296-3344

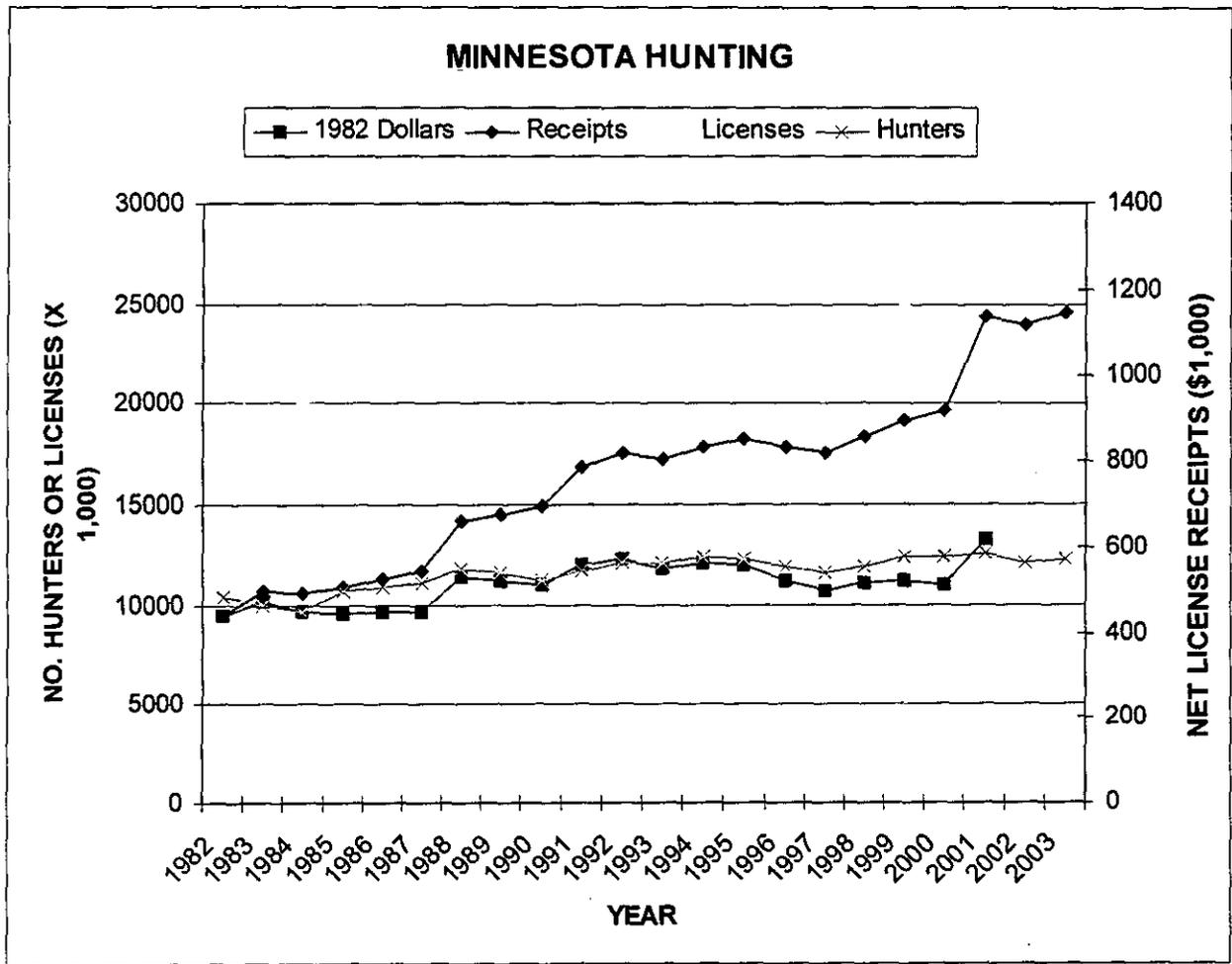


Figure 54. Minnesota hunting trends, 1982-2003.

YEAR = license year (March -February)

● HUNTERS are paid license holders. A hunter is one individual regardless of the number of licenses purchased. Source: USFWS Division of Federal Aid.

○ LICENSES are the totals of hunting licenses, stamps and permits sold through the License Bureau, including duplicates but excluding trapping licenses and special goose hunt permits. Source: License Bureau.

▲ RECEIPTS to the Game and Fish Fund are for all LICENSES except that bear, moose and turkey lottery licenses are also excluded because there is no good financial record for them over the entire period starting in 1982. Portion of receipts considered hunting licenses is 52.6% for individual sportsmen and 41.1% for combination sportsmen. Source: License Bureau.

▼ 1982 DOLLARS are RECEIPTS expressed in constant 1982 dollars, which were calculated with Gross Domestic Product chain-weighted price indexes of state and local government purchases. Sources: *Survey of Current Business, January/February 1996, August 1996, July 1998, February 2000, 2001, 2002, and 2003* U.S. Dept. of Commerce. Tables for gross domestic product chain-weighted price indexes to convert receipts into 1982 dollars are no longer available due to revisions in base year data.

Table 27. Small game hunter response to mail surveys, 1979 - 80 through 2003 - 04.

| Year | Number mailed | Number not delivered | Delivered questionnaires completed and returned | |
|------------------------|---------------|----------------------|---|---------|
| | | | Number | Percent |
| 1979 - 80 | 5,696 | 443 | 4,504 | 85.7 |
| 1980 - 81 | 6,434 | 385 | 4,963 | 82.0 |
| 1981 - 82 | 6,656 | 399 | 5,419 | 86.6 |
| 1982 - 83 | 5,963 | 266 | 4,792 | 84.1 |
| 1983 - 84 | 4,551 | 269 | 3,325 | 77.7 |
| 1984 - 85 | 4,096 | 127 | 3,280 | 82.6 |
| 1985 - 86 | 3,370 | 157 | 2,574 | 80.1 |
| 1986 - 87 | 4,668 | 208 | 3,623 | 81.2 |
| 1987 - 88 | 5,513 | 248 | 4,191 | 79.6 |
| 1988 - 89 | 15,388 | 857 | 11,431 | 78.7 |
| 1989 - 90 ^a | 10,893 | 735 | 7,790 | 76.7 |
| 1990 - 91 ^a | 5,000 | 394 | 3,467 | 75.3 |
| 1991 - 92 ^a | 5,050 | 387 | 3,541 | 75.9 |
| 1992 - 93 ^a | 5,000 | 288 | 3,625 | 76.9 |
| 1993 - 94 ^a | 5,011 | 282 | 3,320 | 70.2 |
| 1994 - 95 ^a | 5,000 | 387 | 3,353 | 72.7 |
| 1995 - 96 ^a | 5,000 | 321 | 3,293 | 70.4 |
| 1996 - 97 ^a | 5,000 | 170 | 3,334 | 69.0 |
| 1997 - 98 ^a | 5,000 | 198 | 3,234 | 67.3 |
| 1998 - 99 ^a | 5,000 | 200 | 3,153 | 65.7 |
| 1999 - 00 ^a | 5,001 | 180 | 3,349 | 69.5 |
| 2000 - 01 ^a | 5,000 | 184 | 3,001 | 62.3 |
| 2001 - 02 ^a | 6,000 | 225 | 3,667 | 64.0 |
| 2002 - 03 ^a | 6,000 | 363 | 3,862 | 68.5 |
| 2003 - 04 ^a | 6,400 | 381 | 3,972 | 66.0 |

^a Includes resident and non-resident licenses, and excludes duplicate licenses.

Table 28. Use of small game hunter licenses, 1993-94 through 2003-2004.

| | | Returns from mail survey | Projections from license sales |
|---------|--------------|-----------------------------|-----------------------------------|
| 1993-94 | Hunted | 2,787 (84.0%) | 232,365 |
| | Did not hunt | <u>533 (16.0%)</u> | <u>44,260</u> |
| | | 3,320 (100.0%) | 276,625 |
| 1994-95 | Hunted | 2,826 (84.6%) | 244,654 |
| | Did not hunt | <u>516 (15.4%)</u> | <u>44,535</u> |
| | | 3,342 (100.0%) | 289,189 |
| 1995-96 | Hunted | 2,714 (84.6%) | 252,775 |
| | Did not hunt | <u>494 (15.4%)</u> | <u>46,014</u> |
| | | 3,208 (100.0%) | 298,789 |
| 1996-97 | Hunted | 2,631 (79.6%) | 237,476 |
| | Did not hunt | <u>674 (20.4%)</u> | <u>60,861</u> |
| | | 3,305(100.0%) | 298,337 |
| 1997-98 | Hunted | 2,604 (80.7%) | 246,285 |
| | Did not hunt | <u>622 (19.3%)</u> | <u>58,901</u> |
| | | 3,226 (100.0%) | 305,186 |
| 1998-99 | Hunted | 2,612 (82.8%) | 265,215 |
| | Did not hunt | <u>541 (17.2%)</u> | <u>55,093</u> |
| | | 3,153 (100.0%) | 320,308 |
| 1999-00 | Hunted | 2,689 (80.7%) | 264,237 |
| | Did not hunt | <u>644 (19.3%)</u> | <u>63,194</u> |
| | | 3,333 (100.0%) | 327,431 |
| 2000-01 | Hunted | 2,254 (78.7%) | 252,518 |
| | Did not hunt | <u>610 (21.3%)</u> | <u>68,344</u> |
| | | 2,864 (100.0%) | 320,862 |
| 2001-02 | Hunted | 2,849 (77.7%) | 231,589 |
| | Did not hunt | <u>610 (21.3%)</u> | <u>66,466</u> |
| | | 3,665 (100.0%) | 298,055 |
| 2002-03 | Hunted | 2,962 (76.7%) | 221,455 |
| | Did not hunt | <u>900 (23.3%)</u> | <u>67,274</u> |
| | | 3,862 (100.0%) | 288,729 |
| 2003-04 | Hunted | 3,085 (78.2%) | 232,206 |
| | Did not hunt | <u>862 (21.8%)</u> | <u>64,733</u> |
| | | 3,947 (100.0%) | 296,939 |

Includes resident and non-resident information. Excludes duplicates.

Table 29. Estimated number of hunters (thousands) for various species, 1991-92 through 2003-04.

| | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 | 1999-00 | 2000-01 | 2001-02 | 2002-03 | 2003-04 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Ducks | 100 | 107 | 109 | 118 | 119 | 114 | 122 | 117 | 122 | 109 | 109 | 112 | 101 |
| Canada goose | 56 | 61 | 62 | 70 | 73 | 75 | 79 | 77 | 80 | 77 | 76 | 79 | 75 |
| Other geese | 6 | 6 | 9 | 7 | 10 | 6 | 5 | 6 | 5 | 7 | 7 | 6 | 7 |
| American coot | 5 | 5 | 6 | 7 | 9 | 6 | 7 | 5 | 6 | 4 | 4 | 4 | 4 |
| Common snipe | 4 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 |
| Rails / gallinules | <1 | <1 | 1 | 1 | 1 | <1 | <1 | <1 | <1 | <1 | <1 | 1 | <1 |
| Crow | 12 | 11 | 10 | 12 | 15 | 13 | 11 | 11 | 14 | 14 | 11 | 13 | 12 |
| American woodcock | 27 | 21 | 17 | 21 | 21 | 18 | 17 | 19 | 19 | 16 | 11 | 12 | 13 |
| Ring-necked pheasant | 122 | 105 | 88 | 92 | 96 | 88 | 80 | 88 | 93 | 100 | 85 | 91 | 105 |
| Ruffed grouse | 146 | 124 | 102 | 107 | 116 | 118 | 127 | 142 | 139 | 121 | 101 | 91 | 94 |
| Spruce grouse | 16 | 13 | 11 | 12 | 14 | 11 | 11 | 11 | 11 | 9 | 9 | 7 | 9 |
| Sharp-tailed grouse | 14 | 10 | 8 | 7 | 8 | 7 | 8 | 8 | 8 | 10 | 8 | 6 | 7 |
| Gray partridge | 27 | 17 | 15 | 14 | 12 | 11 | 8 | 10 | 10 | 8 | 7 | 7 | 8 |
| Gray squirrel | 36 | 32 | 32 | 35 | 35 | 33 | 27 | 30 | 31 | 27 | 26 | 25 | 29 |
| Fox squirrel | 23 | 22 | 23 | 24 | 23 | 20 | 16 | 18 | 20 | 17 | 15 | 15 | 20 |
| Eastern cottontail | 31 | 24 | 21 | 21 | 23 | 19 | 14 | 19 | 18 | 20 | 17 | 16 | 21 |
| White-tailed jackrabbit | 6 | 5 | 4 | 4 | 5 | 4 | 3 | 3 | 3 | 2 | 3 | 2 | 3 |
| Snowshoe hare | 12 | 8 | 5 | 6 | 5 | 4 | 4 | 7 | 7 | 5 | 6 | 6 | 6 |
| Raccoon (Sept 03 - Feb 04) | 10 | 9 | 9 | 10 | 10 | 10 | 9 | 9 | 6 | 6 | 6 | 6 | 6 |
| Raccoon [†] (March 03-Aug 03) | | | | 3 | 5 | 4 | 3 | 4 | 3 | 5 | 4 | 4 | 5 |
| Red fox (Sept 03-Feb 04) | 22 | 19 | 16 | 15 | 15 | 11 | 9 | 9 | 8 | 10 | 6 | 7 | 7 |
| Red fox [†] (March 03-Aug 03) | | | | 3 | 4 | 3 | 2 | 3 | 2 | 2 | 3 | 2 | 2 |
| Gray fox | 4 | 3 | 3 | 2 | 3 | n.a. | 2 | 2 | 2 | 1 | 1 | 1 | 2 |
| Coyote | 13 | 14 | 14 | 11 | 15 | 13 | 10 | 11 | 11 | 16 | 11 | 12 | 15 |
| Badger | <1 | 1 | 1 | 1 | <1 | 1 | 1 | <1 | <1 | 1 | <1 | 1 | <1 |

Crow season added in 1989.

[†] Raccoon and red fox season changed to year round beginning May 1994.

Table 30. Estimated take per hunter, for respondents reporting that they hunted a particular species, 1990-91 through 2003-04.

| | Estimated take per hunter | | | | | | | | | | | | | |
|--|---------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 | 1999-00 | 2000-01 | 2001-02 | 2002-03 | 2003-04 |
| Ducks | 7.0 | 8.0 | 8.1 | 7.6 | 8.1 | 9.7 | 9.6 | 9.9 | 9.5 | 8.4 | 8.9 | 9.1 | 9.2 | 9.0 |
| Canada geese | 2.3 | 2.6 | 2.5 | 2.5 | 2.4 | 2.5 | 3.2 | 2.9 | 2.8 | 3.5 | 3.9 | 4.0 | 3.3 | 3.9 |
| Other geese | 1.2 | 1.0 | 0.9 | 1.1 | 0.8 | 0.9 | 1.4 | 2.3 | 1.0 | 1.2 | 2.2 | 1.2 | 1.9 | 1.7 |
| American coot | 3.6 | 2.7 | 4.7 | 2.7 | 3.2 | 3.1 | 3.8 | 4.1 | 4.7 | 4.0 | 2.7 | 4.5 | 4.6 | 2.8 |
| Common snipe | 3.0 | 3.7 | 2.9 | 1.9 | 1.3 | 1.6 | 2.8 | 2.6 | 2.9 | 1.6 | 1.3 | 1.3 | 1.5 | 1.8 |
| Rails/gallinules | 1.0 | 7.6 | 1.7 | 1.5 | 1.3 | 2.3 | 1.0 | 0.7 | 0.5 | 0.2 | 3.7 | 0.6 | 2.6 | 0.5 |
| Crow * | 5.5 | 7.6 | 6.2 | 5.0 | 9.4 | 8.5 | 7.3 | 6.6 | 9.3 | 4.4 | 6.9 | 7.7 | 5.6 | 6.7 |
| American woodcock | 3.9 | 3.5 | 4.7 | 4.0 | 3.5 | 3.9 | 3.2 | 3.4 | 3.3 | 2.8 | 2.8 | 2.3 | 2.4 | 2.4 |
| Ring-necked pheasant | 4.6 | 4.6 | 3.9 | 3.8 | 3.5 | 4.2 | 3.9 | 3.1 | 3.5 | 3.7 | 3.7 | 3.2 | 3.9 | 4.9 |
| Ruffed grouse | 7.1 | 6.6 | 4.4 | 2.8 | 3.5 | 3.9 | 4.5 | 5.2 | 6.7 | 4.9 | 5.1 | 3.3 | 2.8 | 3.8 |
| Spruce grouse | 2.4 | 2.0 | 1.7 | 1.2 | 1.9 | 1.8 | 1.4 | 2.3 | 2.4 | 1.8 | 2.5 | 1.1 | 1.6 | 2.1 |
| Sharp-tailed grouse | 2.4 | 2.4 | 2.0 | 1.4 | 1.2 | 1.3 | 1.2 | 1.7 | 2.6 | 1.6 | 1.6 | 1.2 | 1.3 | 1.7 |
| Gray partridge | 3.7 | 3.8 | 2.9 | 2.4 | 1.8 | 2.2 | 2.2 | 1.9 | 2.5 | 1.9 | 2.1 | 1.5 | 1.7 | 2.8 |
| Gray squirrel | 5.8 | 4.9 | 4.6 | 5.5 | 5.4 | 4.9 | 4.9 | 4.9 | 5.0 | 4.3 | 5.3 | 5.6 | 5.2 | 6.0 |
| Fox squirrel | 5.1 | 4.6 | 4.2 | 4.5 | 4.2 | 4.6 | 3.8 | 4.4 | 3.3 | 3.5 | 3.9 | 4.1 | 4.5 | 4.2 |
| Eastern cottontail | 4.3 | 4.1 | 3.1 | 3.6 | 3.6 | 4.3 | 3.4 | 4.5 | 4.6 | 3.2 | 3.9 | 3.6 | 3.3 | 4.3 |
| White-tailed jackrabbit | 1.3 | 1.7 | 2.1 | 2.4 | 1.5 | 1.5 | 2.6 | 1.6 | 2.5 | 1.9 | 2.8 | 2.6 | 1.6 | 2.4 |
| Snowshoe hare | 4.6 | 5.9 | 3.2 | 3.2 | 3.2 | 2.0 | 2.3 | 2.0 | 3.5 | 3.1 | 5.2 | 3.3 | 1.9 | 2.2 |
| Raccoon (Sept 03 - Feb 04) | 9.6 | 7.5 | 8.6 | 8.9 | 15.9 | 14.7 | 21.3 | 13.8 | 16.6 | 10.9 | 7.6 | 9.4 | 10.0 | 8.5 |
| Raccoon [†] (March 03-Aug 03) | | | | | 8.0 | 11.3 | 24.4 | 5.1 | 5.8 | 6.4 | 7.8 | 4.4 | 5.4 | 4.7 |
| Red fox (Sept 03-Feb 04) | 3.4 | 3.6 | 3.3 | 3.6 | 2.8 | 3.1 | 3.0 | 1.4 | 1.3 | 1.2 | 1.9 | 1.2 | 1.5 | 1.8 |
| Red fox [†] (March 03-Aug 03) | | | | | 1.4 | 1.5 | 1.3 | 0.8 | 1.2 | 0.6 | 0.9 | 1.5 | 1.7 | 0.6 |
| Gray fox | 1.4 | 1.0 | 1.3 | 0.8 | 0.6 | 1.0 | n.a. | 1.3 | 0.9 | 0.9 | 0.7 | 0.4 | 0.4 | 0.4 |
| Coyote | 1.6 | 2.1 | 1.5 | 1.3 | 1.1 | 1.8 | 2.3 | 1.6 | 1.3 | 1.3 | 1.8 | 1.1 | 1.2 | 1.3 |
| Badger | 1.4 | 2.2 | 0.9 | 0.7 | 1.4 | 1.4 | 2.1 | 0.9 | 4.3 | 1.1 | 0.8 | 0.6 | 1.7 | 0.7 |

* Crow season added in 1989.

† Raccoon and red fox season changed to year round beginning May 1994.

Table 31. Mean Harvest for successful hunters and hunter success rates (%), 1993 - 94 through 2003 - 04.

| | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 | 1999-00 | 2000-01 | 2001-02 | 2002-03 | 2003-04 |
|--|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Ducks | 8.7 (87.3) | 9.2 (88.5) | 11.0 (88.2) | 10.7 (90.2) | 11.1 (88.4) | 10.8 (87.8) | 9.7 (86.2) | 10.2 (84.9) | 10.6 (85.6) | 10.6 (86.7) | 10.4 (86.7) |
| Canada geese | 3.4 (74.3) | 3.3 (71.9) | 3.4 (72.2) | 4.3 (75.1) | 4.1 (71.2) | 4.0 (70.9) | 4.7 (74.7) | 5.3 (74.2) | 5.3 (76.3) | 4.6 (72.0) | 5.1 (76.0) |
| Other geese | 2.1 (50.0) | 2.3 (32.1) | 2.4 (39.0) | 2.6 (52.2) | 4.8 (47.2) | 2.3 (44.6) | 2.8 (38.2) | 4.0 (54.1) | 2.8 (43.8) | 4.4 (42.5) | 2.7 (65.3) |
| American coot | 3.8 (71.6) | 4.1 (77.5) | 4.4 (69.4) | 5.1 (75.0) | 4.6 (89.2) | 6.0 (78.8) | 5.5 (73.0) | 4.2 (64.7) | 7.5 (60.4) | 6.4 (71.2) | 3.7 (76.9) |
| Common snipe | 2.9 (65.2) | 2.2 (61.9) | 2.5 (65.2) | 3.2 (89.5) | 3.1 (83.3) | 3.5 (83.3) | 2.3 (66.7) | 1.5 (85.0) | 2.4 (52.9) | 2.6 (60.0) | 2.3 (78.9) |
| Rails / gallinules | 2.4 (62.5) | 2.2 (60.0) | 4.7 (50.0) | 2.0 (50.0) | 2.0 (33.3) | 1.0 (50.0) | 1.0 (20.0) | 3.7 (100.0) | 1.5 (40.0) | 3.8 (66.7) | 1.0 (50.0) |
| Crow | 5.7 (87.1) | 10.5 (89.4) | 9.0 (93.9) | 7.9 (91.8) | 7.1 (93.2) | 10.6 (87.6) | 5.2 (85.5) | 8.2 (84.0) | 8.6 (89.4) | 6.3 (89.0) | 7.9 (85.3) |
| American woodcock | 5.4 (73.9) | 4.7 (74.5) | 5.0 (76.8) | 4.3 (73.5) | 4.6 (73.5) | 3.7 (87.3) | 3.8 (74.6) | 3.6 (80.3) | 3.4 (68.3) | 3.6 (65.6) | 3.3 (71.8) |
| Ring-necked pheasant | 5.3 (70.6) | 5.0 (68.9) | 5.7 (73.6) | 5.4 (71.2) | 4.5 (68.6) | 5.0 (70.9) | 5.2 (69.8) | 5.2 (71.9) | 4.7 (66.4) | 5.5 (71.7) | 6.3 (77.2) |
| Ruffed grouse | 4.3 (64.7) | 4.9 (70.9) | 5.3 (74.0) | 6.0 (75.4) | 6.6 (77.9) | 8.0 (82.9) | 6.3 (78.9) | 6.4 (80.7) | 4.8 (68.5) | 4.3 (63.8) | 5.1 (73.5) |
| Spruce grouse | 2.4 (48.4) | 3.3 (56.6) | 3.2 (57.0) | 2.4 (59.1) | 3.4 (67.8) | 3.4 (68.8) | 2.9 (62.7) | 4.1 (60.7) | 2.3 (47.2) | 3.4 (48.0) | 3.3 (62.9) |
| Sharp-tailed grouse | 3.0 (46.7) | 3.5 (34.5) | 2.7 (47.1) | 3.1 (39.7) | 3.5 (48.2) | 4.4 (60.2) | 3.4 (48.2) | 3.1 (52.9) | 2.4 (49.5) | 3.5 (38.8) | 3.3 (52.2) |
| Gray partridge | 4.0 (59.7) | 3.2 (54.8) | 3.4 (62.9) | 3.3 (66.7) | 3.3 (57.5) | 3.8 (64.2) | 3.1 (62.4) | 3.7 (58.6) | 2.5 (58.3) | 2.8 (59.1) | 4.1 (68.9) |
| Gray squirrel | 6.4 (86.9) | 6.2 (87.1) | 5.6 (87.9) | 5.8 (84.3) | 5.8 (84.0) | 5.8 (86.9) | 5.1 (84.7) | 6.7 (84.9) | 6.6 (84.4) | 6.1 (86.2) | 7.0 (85.3) |
| Fox squirrel | 5.1 (88.5) | 5.1 (82.6) | 5.5 (83.8) | 4.7 (80.1) | 5.3 (82.9) | 3.9 (82.7) | 4.5 (79.0) | 4.8 (80.5) | 5.3 (77.7) | 5.9 (76.4) | 5.1 (82.6) |
| Eastern cottontail | 4.5 (79.9) | 4.5 (79.1) | 5.2 (83.5) | 4.3 (79.9) | 5.7 (80.0) | 5.6 (83.1) | 4.0 (80.0) | 4.8 (82.5) | 4.7 (77.7) | 4.7 (70.5) | 5.2 (84.2) |
| White-tailed jackrabbit | 3.9 (62.8) | 2.4 (61.5) | 2.5 (59.3) | 4.0 (65.1) | 2.5 (65.5) | 3.2 (78.6) | 2.6 (72.7) | 4.1 (68.2) | 5.2 (50.0) | 2.7 (60.6) | 3.3 (72.5) |
| Snowshoe hare | 4.4 (73.8) | 5.4 (59.7) | 3.4 (59.3) | 3.7 (60.4) | 2.8 (70.5) | 4.7 (75.4) | 3.9 (79.4) | 6.3 (82.6) | 4.4 (75.0) | 2.9 (67.1) | 3.5 (60.8) |
| Raccoon (Sept 03-Feb 04) | 9.3 (95.3) | 16.3 (97.5) | 16.0 (92.0) | 22.5 (94.4) | 14.8 (92.6) | 18.1 (91.8) | 11.4 (95.1) | 8.0 (94.8) | 10.0 (93.6) | 11.6 (86.3) | 9.6 (88.5) |
| Raccoon [†] (March 03-Aug 03) | | 9.1 (88.6) | 12.2 (92.5) | 29.6 (82.2) | 6.3 (80.0) | 6.2 (92.5) | 6.6 (96.2) | 8.2 (95.1) | 4.9 (90.2) | 5.9 (91.7) | 5.6 (85.2) |
| Red fox (Sept 03-Feb 04) | 5.4 (67.5) | 4.4 (64.7) | 4.8 (64.5) | 5.3 (57.1) | 2.4 (59.8) | 2.6 (52.7) | 2.4 (51.9) | 3.4 (56.7) | 2.7 (44.9) | 3.1 (49.0) | 3.5 (51.0) |
| Red fox [†] (March 03-Aug 03) | | 3.0 (46.9) | 2.3 (65.1) | 2.4 (51.6) | 1.6 (52.2) | 1.8 (65.4) | 1.3 (47.4) | 1.9 (47.1) | 2.8 (54.5) | 3.6 (46.7) | 1.1 (51.7) |
| Gray fox | 3.1 (26.7) | 2.5 (23.1) | 1.8 (58.1) | n.a. | 2.0 (62.5) | 1.6 (53.3) | 2.3 (40.0) | 2.0 (33.3) | 1.4 (26.3) | 1.8 (23.5) | 1.3 (30.0) |
| Coyote | 2.3 (57.1) | 2.4 (48.1) | 2.9 (61.1) | 4.1 (55.9) | 2.8 (57.0) | 2.9 (45.0) | 2.5 (49.1) | 3.4 (53.9) | 2.4 (47.3) | 3.2 (36.6) | 2.7 (48.8) |
| Badger | 1.0 (71.4) | 1.7 (85.7) | 1.8 (80.0) | 2.1 (100.0) | 1.0 (85.7) | 6.5 (66.7) | 1.3 (87.5) | 1.0 (83.3) | 1.0 (60.0) | 2.8 (60.0) | 1.0 (66.7) |

[†] Raccoon and red fox season changed to year round beginning May 1994.

Small Game

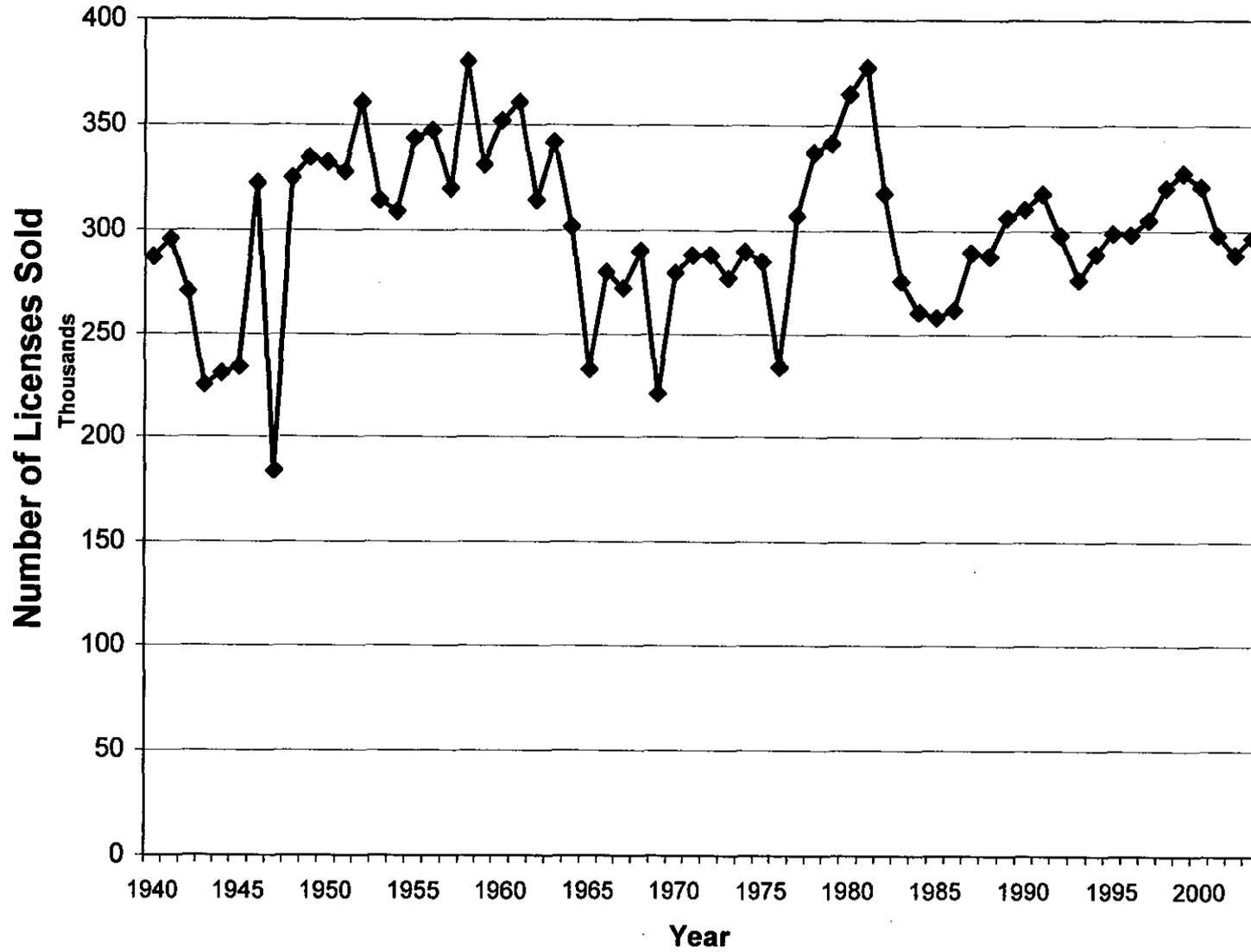


Figure 55. Numbers of Minnesota small game licenses sold, 1940 – 2003

Table 33. Mail survey results of nonresident small game hunters, 1991-92 through 2003-04.

| | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 | 1999-00 | 2000-01 | 2001-02 | 2002-03 | 2003-04 |
|--|------------|--------------------|------------|----------------------|------------|------------|------------|--------------------|------------|------------|------------|------------|------------|
| Nonresident licenses issued^a | 4,852 | 4,718 | 3,809 | 4,435 | 4,993 | 5,488 | 6,361 | 7,155 | 7,572 | 7,001 | 5,843 | 5,852 | 6,291 |
| Questionnaires: | | | | | | | | | | | | | |
| Number mailed | 114 | 170 | 229 | 182 | 205 | 51 | 269 | 200 | 199 | 98 | 124 | 130 | 123 |
| Number not delivered | 8 | 8 | 21 | 7 | 14 | 4 | 18 | 17 | 16 | 6 | 9 | 9 | 17 |
| Number (percent) returned | 89 (83) | 32 (82) | 149 (72) | 128 (73) | 140 (73) | 32 (68) | 183 (73) | 117 (64) | 136 (74) | 56 (61) | 77 (67) | 75 (66) | 68 (64) |
| Estimated nonresidents and (percent) of all nonresidents hunting: | | | | | | | | | | | | | |
| Ducks | 1,308 (27) | 1,751 (37) | 1,789 (47) | 1,975 (45) | 2,354 (47) | 1,209 (19) | 2,331 (37) | 2,874 (40) | 2,505 (33) | 2,375 (34) | 2,727 (47) | 2,263 (39) | 2,498 (40) |
| Canada goose | 491 (10) | 1,101 (21) | 792 (21) | 1,005 (23) | 1,248 (25) | 686 (13) | 1,113 (17) | 1,468 (20) | 1,225 (16) | 1,500 (21) | 1,169 (20) | 1,092 (19) | 1,388 (24) |
| Ruffed grouse | 2,017 (42) | 1,465 (31) | 895 (24) | 1,421 (32) | 1,534 (31) | 2,744 (50) | 2,157 (34) | 3,608 (50) | 3,508 (46) | 3,000 (43) | 1,169 (20) | 2,029 (35) | 2,313 (40) |
| Ring-necked pheasant | 1,743 (36) | 894 (19) | 741 (20) | 832 (19) | 820 (16) | 515 (9) | 731 (11) | 612 (8) | 947 (13) | 625 (9) | 935 (16) | 1,404 (24) | 2,128 (36) |
| Raccoon ^b | 55 (1) | 0 (0) ^c | 26 (1) | 0 (0) ^c * | 107 (2) * | 172 (3) | 35 (1) | 0 (0) ^c | 56 (1) | 250 (4) | 0 (0) | 0 (0) | 0 (0) |
| Estimated nonresident take: | | | | | | | | | | | | | |
| Ducks | 11,340 | 17,442 | 13,574 | 15,696 | 26,713 | 6,346 | 15,967 | 26,663 | 26,391 | 18,253 | 42,225 | 17,556 | 17,855 |
| Canada goose | 1,363 | 3,610 | 2,122 | 2,287 | 4,173 | 1,544 | 4,905 | 4,587 | 6,960 | 5,001 | 13,400 | 5,852 | 5,736 |
| Ruffed grouse | 18,100 | 10,758 | 4,985 | 7,242 | 9,415 | 23,153 | 16,072 | 27,886 | 23,384 | 24,003 | 6,622 | 9,207 | 9,437 |
| Ring-necked pheasant | 6,324 | 4,110 | 3,042 | 4,366 | 3,638 | 1,887 | 2,505 | 1,712 | 4,844 | 4,001 | 3,740 | 7,647 | 9,344 |
| Raccoon | 327 | 0 | 26 | 0 | 3,638 | 8,061 | 70 | 0 | 724 | 3,375 | 0 | 0 | 0 |

^a Excludes duplicate licenses and nonresident shooting preserve licenses.

^b Nonresident raccoon hunters were required to purchase a nonresident raccoon hunting license for the first time in 1979 in addition to the nonresident small game license. The initial season bag limit of 8 was increased to 12 in 1983 and to 20 in 1985.

^c In 1990, 1992, 1994, 1998, 2001, 2002 and 2003 small game hunter survey no non-residents reported hunting/harvesting raccoons. * Non-resident raccoon hunting license was not required for 1994 and 1995.

Raccoon take per hunter

| | <u>Resident</u> | <u>Nonresident</u> | <u>Number of nonresident raccoon licenses</u> |
|-------------------|-----------------|--------------------|---|
| 1992 ^c | 9 | 0 | 20 |
| 1993 | 9 | 1 | 24 |
| 1994 ^c | 16 | 0 | * |
| 1995 | 12 | 34 | * |
| 1996 | 23 | 47 | 52 |
| 1997 | 15 | 2 | 58 |
| 1998 ^c | 18 | 0 | 56 |
| 1999 | 11 | 13 | 48 |
| 2000 | 8 | 13 | 51 |
| 2001 | 10 | 0 | 48 |
| 2002 | 11 | 0 | 46 |
| 2003 | 10 | 0 | 44 |

Table 34. Species composition of the Minnesota waterfowl harvest, 2002 and 2003 (from: Harvest Information Program. Preliminary estimates of waterfowl harvest and hunter activity in the United States during the 2003 hunting season. U.S. Fish and Wildlife Service Adm. Rep., Office of Migratory Bird Management, Laurel, Maryland. July 2004. 33 pp.). Note: All hunter activity and harvest estimates are preliminary, pending final counts of the number of migratory bird hunters in each state and complete audits of all survey response data.

| Species | Minnesota Harvest | | | | | Mississippi Flyway Harvest | | |
|-------------------------------------|-------------------|--------------|------------------|--------------|---------------------------------|----------------------------|-------------------|------------------------------|
| | 2002 | % of Harvest | 2003 | % of Harvest | Percent change in Harvest 02-03 | 2002 | 2003 | Percent change Harvest 02-03 |
| Mallard | 278,399 | 29.47 | 303,995 | 34.37 | + 9 | 2,423,134 | 2,571,468 | + 6 |
| Domestic mallard | 0 | 0 | 1,666 | 0.19 | | 7,123 | 6,018 | - 15 |
| American black duck | 1,862 | 0.20 | 833 | 0.09 | - 55 | 47,465 | 33,971 | - 28 |
| Black x mallard | 0 | 0 | 416 | 0.05 | | 5,646 | 5,316 | - 6 |
| Gadwall | 47,486 | 5.03 | 47,057 | 5.32 | - 1 | 673,853 | 858,504 | + 27 |
| American wigeon | 22,812 | 2.41 | 15,408 | 1.74 | - 32 | 147,440 | 124,228 | - 16 |
| Green-winged teal | 79,144 | 8.38 | 100,776 | 11.39 | + 27 | 548,398 | 724,851 | + 32 |
| Blue-winged /cinnamon teal | 130,820 | 13.85 | 92,448 | 10.45 | - 29 | 451,246 | 611,188 | + 35 |
| Northern shoveler | 11,173 | 1.18 | 18,323 | 2.07 | + 64 | 128,638 | 209,872 | + 63 |
| Northern pintail | 18,622 | 1.97 | 18,323 | 2.07 | - 2 | 102,481 | 123,318 | + 20 |
| Wood duck | 135,010 | 14.29 | 129,926 | 14.68 | - 4 | 720,392 | 779,488 | + 8 |
| Redhead | 13,967 | 1.48 | 11,660 | 1.32 | - 16 | 28,995 | 37,828 | + 30 |
| Canvasback | 466 | 0.05 | 2,915 | 0.33 | +525 | 604 | 11,259 | +1764 |
| Greater scaup | 5,587 | 0.59 | 416 | 0.05 | - 93 | 30,216 | 14,469 | - 52 |
| Lesser scaup | 49,814 | 5.27 | 34,147 | 3.86 | - 31 | 185,381 | 153,617 | - 17 |
| Ring-necked duck | 94,972 | 10.05 | 72,459 | 8.19 | - 24 | 250,330 | 239,855 | - 4 |
| Goldeneye | 16,294 | 1.72 | 9,578 | 1.08 | - 41 | 37,405 | 32,612 | - 13 |
| Bufflehead | 19,553 | 2.07 | 10,411 | 1.18 | - 47 | 81,526 | 89,254 | + 9 |
| Ruddy duck | 2,328 | 0.25 | 833 | 0.09 | - 64 | 4,715 | 13,202 | + 180 |
| Scoters | 0 | 0 | 833 | 0.09 | | 2,611 | 5,033 | + 93 |
| Hooded merganser | 12,570 | 1.33 | 9,578 | 1.08 | - 24 | 60,048 | 55,608 | - 7 |
| Other mergansers | 3,724 | 0.39 | 2,499 | .028 | | 11,335 | 9,844 | - 13 |
| Total Duck Harvest (retrieved kill) | 944,600 ± 9% | 100 | 884,500 ± 10% | | - 6 | 5,974,100 ± 5% | 6,759,100 ± 9% | + 13 |

^a Sum of all species does not equal total because of rounding error.

^b No percentage change.

Table 35. Top 10 states in number of **adult duck hunters**, 2003, and number of hunter-days and retrieved duck kill, in each (from: Martin, E.M., and P.I. Padding. 2004. Harvest Information Program: Preliminary estimates of waterfowl harvest and hunter activity during the 2002 and 2003 hunting seasons. U.S. Fish and Wildlife Service Adm. Rep., Division of Migratory Bird Management, Harvest Surveys Section, Laurel, Maryland. July 2004. 33 pp). **Note:** All hunter activity and harvest estimates are preliminary, pending final counts of the number of migratory bird hunters in each state, and complete audits of all survey response data.

| State | Number of active duck hunters | Duck hunter days afield | Total duck harvest | Seasonal duck harvest per hunter |
|--------------------|-------------------------------|-------------------------|--------------------|----------------------------------|
| Minnesota | 87,900 | 548,300 | 884,500 | 10.1 |
| Arkansas | 72,300 | 595,500 | 1,129,800 | 15.6 |
| Wisconsin | 69,600 | 468,200 | 677,400 | 9.7 |
| Louisiana | 65,800 | 581,300 | 1,344,300 | 20.4 |
| Texas | 61,100 | 379,200 | 815,800 | 13.4 |
| Michigan | 50,900 | 292,000 | 367,100 | 7.2 |
| California | 43,100 | 406,900 | 1,013,100 | 23.5 |
| North Dakota | 37,100 | 197,700 | 496,800 | 13.4 |
| Illinois | 33,400 | 330,100 | 471,000 | 14.1 |
| Missouri | 33,000 | 238,900 | 472,600 | 14.4 |
| Mississippi Flyway | | 4,033,400 ± 4% | 6,759,100 ± 9% | |
| United States | | 7,444,000 ± 4% | 13,402,300 ± 6% | |

Table 36. Top 10 states in number of **adult goose hunters**, 2003, and number of hunter-days and retrieved goose kill, in each (from: Martin, E.M., and P.I. Padding. 2004. Harvest Information Program: Preliminary estimates of waterfowl harvest and hunter activity during the 2002 and 2003 hunting seasons. U.S. Fish and Wildlife Service Adm. Rep., Division of Migratory Bird Management, Harvest Surveys Section, Laurel, Maryland. July 2004. 33 pp). **Note:** All hunter activity and harvest estimates are preliminary, pending final counts of the number of migratory bird hunters in each state, and complete audits of all survey response data.

| State | Number of active goose hunters | Goose hunter days afield | Total goose harvest | Seasonal goose harvest per hunter |
|--------------------|-----------------------------------|--------------------------|---------------------|--------------------------------------|
| Minnesota | 70,000 | 431,700 | 286,800 | 4.1 |
| Wisconsin | 65,700 | 425,500 | 151,200 | 2.3 |
| Texas | 47,000 | 149,700 | 299,400 | 6.4 |
| Michigan | 45,800 | 247,700 | 191,700 | 4.2 |
| Pennsylvania | 41,300 | 260,900 | 194,000 | 4.7 |
| California | 38,000 | 241,400 | 118,300 | 3.1 |
| Illinois | 28,600 | 234,000 | 139,000 | 4.9 |
| North Dakota | 27,600 | 128,900 | 149,800 | 5.4 |
| Ohio | 25,500 | 159,000 | 88,200 | 3.5 |
| Maryland | 23,400 | 149,000 | 138,400 | 5.9 |
| Mississippi Flyway | | 2,360,700 ± 9% | 1,528,800 ± 7% | |
| United States | | 4,720,100 ± 5% | 3,828,100 ± 5% | |

Table 37. Ranking of the Six Most Numerically Important Species in Minnesota regular season duck harvest, 1961 – 2003.
From the Federal Parts Collection survey data.

| Year | Rank Position / % of Harvest | | | | | | | | | | | | Combined % of Total Harvest |
|------|------------------------------|-------|----------|-------|----------|-------|----------|-------|----------|-------|------------|------|--------------------------------|
| | 1 | % | 2 | % | 3 | % | 4 | % | 5 | % | 6 | % | |
| 1961 | Mallard | 46.31 | L. Scaup | 13.57 | GW Teal | 11.16 | Ringneck | 7.55 | Wigeon | 5.56 | Wood Duck | 4.40 | 88.55 |
| 1962 | Mallard | 39.50 | Ringneck | 18.23 | L. Scaup | 8.03 | BW Teal | 7.90 | Wood Dk | 6.61 | GW Teal | 5.91 | 86.18 |
| 1963 | Mallard | 39.87 | BW Teal | 13.59 | Wood Dk | 12.58 | Ringneck | 10.72 | GW Teal | 6.43 | Wigeon | 4.66 | 87.85 |
| 1964 | Mallard | 30.53 | Ringneck | 18.48 | BW Teal | 9.50 | GW Teal | 7.91 | Wood Dk | 7.79 | Wigeon | 6.62 | 80.83 |
| 1965 | Mallard | 25.30 | Ringneck | 23.95 | L. Scaup | 11.99 | Wood Dk | 8.16 | BW Teal | 5.64 | Wigeon | 5.29 | 80.33 |
| 1966 | Mallard | 30.25 | Ringneck | 16.68 | Wood Dk | 9.44 | BW Teal | 7.79 | L. Scaup | 7.73 | GW Teal | 7.23 | 79.12 |
| 1967 | Mallard | 33.69 | BW Teal | 11.82 | GW Teal | 10.95 | Ringneck | 10.18 | Wood Dk | 7.89 | L. Scaup | 5.82 | 80.35 |
| 1968 | Mallard | 27.42 | Ringneck | 14.68 | Wood Dk | 11.94 | GW Teal | 11.53 | BW Teal | 8.13 | Wigeon | 6.32 | 80.02 |
| 1969 | Mallard | 20.71 | L. Scaup | 15.76 | Ringneck | 12.82 | BW Teal | 12.40 | Wood Dk | 10.36 | GW Teal | 7.18 | 79.23 |
| 1970 | Mallard | 31.43 | Ringneck | 11.39 | BW Teal | 10.63 | Wood Dk | 10.54 | L. Scaup | 9.86 | GW Teal | 7.50 | 81.35 |
| 1971 | Mallard | 26.32 | BW Teal | 16.93 | Ringneck | 13.92 | L. Scaup | 11.49 | Wood Dk | 7.19 | GW Teal | 6.15 | 82.00 |
| 1972 | Mallard | 36.92 | L. Scaup | 16.82 | Ringneck | 9.56 | Wood Dk | 8.94 | BW Teal | 7.41 | GW Teal | 5.69 | 85.34 |
| 1973 | Mallard | 27.75 | BW Teal | 15.18 | Ringneck | 14.63 | Wood Dk | 10.55 | L. Scaup | 9.26 | GW Teal | 7.85 | 85.22 |
| 1974 | Mallard | 33.12 | Wood Dk | 14.99 | Ringneck | 13.26 | BW Teal | 9.89 | L. Scaup | 7.72 | GW Teal | 7.53 | 86.51 |
| 1975 | Mallard | 28.13 | Ringneck | 16.07 | BW Teal | 15.76 | Wood Dk | 15.46 | GW Teal | 6.80 | L. Scaup | 5.37 | 87.59 |
| 1976 | Mallard | 27.73 | Wood Dk | 13.78 | GW Teal | 11.32 | Ringneck | 10.51 | L. Scaup | 10.48 | BW Teal | 8.20 | 82.02 |
| 1977 | Mallard | 29.04 | Ringneck | 12.91 | Wood Dk | 12.87 | BW Teal | 11.93 | GW Teal | 10.45 | Wigeon | 6.77 | 83.97 |
| 1978 | Mallard | 30.04 | Ringneck | 13.57 | Wood Dk | 12.23 | BW Teal | 11.25 | GW Teal | 6.86 | Wigeon | 5.61 | 79.56 |
| 1979 | Mallard | 31.35 | Wood Dk | 15.12 | BW Teal | 14.93 | Ringneck | 11.25 | Wigeon | 4.80 | GW Teal | 4.70 | 82.15 |
| 1980 | Mallard | 31.79 | Ringneck | 15.65 | Wood Dk | 15.49 | GW Teal | 6.02 | L. Scaup | 5.84 | Wigeon | 5.67 | 80.46 |
| 1981 | Mallard | 31.37 | Wood Dk | 13.34 | L. Scaup | 10.67 | Ringneck | 9.99 | BW Teal | 8.00 | GW Teal | 7.14 | 80.51 |
| 1982 | Mallard | 30.54 | Wood Dk | 14.76 | BW Teal | 14.36 | Ringneck | 8.83 | L. Scaup | 6.38 | GW Teal | 5.94 | 80.81 |
| 1983 | Mallard | 29.22 | Wood Dk | 17.06 | BW Teal | 13.28 | Ringneck | 11.60 | GW Teal | 6.74 | L. Scaup | 5.12 | 83.02 |
| 1984 | Mallard | 29.44 | Wood Dk | 18.00 | BW Teal | 11.90 | Ringneck | 9.95 | GW Teal | 8.23 | L. Scaup | 7.34 | 84.86 |
| 1985 | Mallard | 27.98 | Ringneck | 18.90 | Wood Dk | 12.78 | L. Scaup | 10.94 | GW Teal | 6.78 | BW Teal | 4.12 | 81.50 |
| 1986 | Mallard | 29.73 | Wood Dk | 17.18 | Ringneck | 16.52 | L. Scaup | 9.57 | BW Teal | 7.67 | GW Teal | 5.50 | 86.17 |
| 1987 | Mallard | 31.71 | Wood Dk | 18.73 | Ringneck | 14.47 | GW Teal | 10.28 | L. Scaup | 4.95 | BW Teal | 4.34 | 84.48 |
| 1988 | Mallard | 31.76 | Wood Dk | 14.56 | L. Scaup | 14.03 | GW Teal | 11.55 | Ringneck | 8.23 | BW Teal | 3.95 | 84.08 |
| 1989 | Mallard | 38.62 | Wood Dk | 15.72 | GW Teal | 11.48 | Ringneck | 8.67 | L. Scaup | 6.08 | BW Teal | 4.63 | 85.20 |
| 1990 | Mallard | 29.91 | Wood Dk | 17.16 | Ringneck | 11.51 | GW Teal | 11.23 | BW Teal | 7.16 | L. Scaup | 6.79 | 83.76 |
| 1991 | Mallard | 35.73 | Wood Dk | 19.47 | Ringneck | 9.75 | GW Teal | 6.73 | L. Scaup | 6.13 | Wigeon | 4.38 | 82.19 |
| 1992 | Mallard | 35.30 | Wood Dk | 17.28 | Ringneck | 12.95 | L. Scaup | 7.93 | GW Teal | 5.92 | Wigeon | 4.48 | 83.86 |
| 1993 | Mallard | 30.94 | Ringneck | 22.18 | Wood Dk | 18.77 | L. Scaup | 5.56 | GW Teal | 3.88 | BW Teal | 3.10 | 84.43 |
| 1994 | Mallard | 26.59 | Wood Dk | 21.51 | Ringneck | 14.68 | L. Scaup | 6.57 | BW Teal | 6.43 | GW Teal | 6.08 | 81.86 |
| 1995 | Mallard | 26.76 | Wood Dk | 20.90 | BW Teal | 12.45 | Ringneck | 11.27 | L. Scaup | 6.89 | GW Teal | 4.43 | 82.70 |
| 1996 | Mallard | 31.53 | Wood Dk | 19.35 | BW Teal | 14.06 | GW Teal | 7.03 | Ringneck | 6.56 | L. Scaup | 4.72 | 83.25 |
| 1997 | Mallard | 28.12 | Ringneck | 13.37 | Wood Dk | 13.05 | BW Teal | 8.90 | GW Teal | 8.42 | L. Scaup | 6.90 | 78.76 |
| 1998 | Mallard | 34.07 | Wood Dk | 17.20 | Ringneck | 12.21 | GW Teal | 8.90 | BW Teal | 7.53 | L. Scaup | 2.84 | 82.75 |
| 1999 | Mallard | 30.38 | Wood Dk | 18.89 | Ringneck | 10.89 | GW Teal | 9.15 | BW Teal | 9.09 | Bufflehead | 4.62 | 83.02 |

Table 37. (continued)

| Year | Rank Position / % of Harvest | | | | | | | | | | | | Combined % of Total Harvest | |
|---|------------------------------|---------------|---------|---------------|---------|---------------|----------|---------------|----------|---------------|----------|-----------|--------------------------------|------|
| | 1 | % | 2 | % | 3 | % | 4 | % | 5 | % | 6 | % | | |
| 2000 | Mallard | 32.82 | Wood Dk | 15.57 | BW Teal | 13.71 | Ringneck | 12.27 | GW Teal | 7.54 | Gadwall | 3.25 | 85.16 | |
| 2001 | Mallard | 38.96 | BW Teal | 15.13 | Wood Dk | 12.20 | Ringneck | 10.02 | GW Teal | 5.96 | L. Scaup | 4.53 | 86.80 | |
| 2002 | Mallard | 29.47 | Wood Dk | 14.29 | BW Teal | 13.85 | Ringneck | 10.05 | GW Teal | 8.38 | L. Scaup | 5.27 | 81.31 | |
| 2003 | Mallard | 34.37 | Wood Dk | 14.69 | GW Teal | 11.39 | BW Teal | 10.45 | Ringneck | 8.19 | Gadwall | 5.32 | 84.41 | |
| Avg. % of Harvest | | 31.5 | | 16.4 | | 12.7 | | 9.8 | | 7.3 | | 5.6 | | 83.1 |
| Range | | 20.71-46.31 | | 11.39-23.95 | | 8.03-18.77 | | 5.56-15.46 | | 3.88-10.48 | | 2.84-8.20 | | |
| Number of years that species was ranked number: | | | | | | | | | | | | | | |
| <u>Rank 1</u> | | <u>Rank 2</u> | | <u>Rank 3</u> | | <u>Rank 4</u> | | <u>Rank 5</u> | | <u>6</u> | | | | |
| Mallard-43 | | Wood Dk-22 | | Ringneck-13 | | Ringneck-14 | | GW Teal-13 | | GW Teal-14 | | | | |
| | | Ringneck-13 | | BW Teal- 11 | | GW Teal- 10 | | L. Scaup-11 | | Wigeon -9 | | | | |
| | | BW Teal- 5 | | Wood Dk- 10 | | BW Teal- 8 | | BW Teal- 9 | | L. Scaup- 10 | | | | |
| | | L. Scaup- 3 | | GW Teal- 5 | | L. Scaup- 6 | | Wood Dk- 5 | | BW Teal- 6 | | | | |
| | | | | L. Scaup- 4 | | Wood Dk- 5 | | Wigeon - 2 | | Wood Dk- 1 | | | | |
| | | | | | | | | Ringneck- 3 | | Bufflehead- 1 | | | | |
| | | | | | | | | | | Gadwall- 2 | | | | |

Table 38. Spring turkey hunting summary, 1978-04.

| Year | Area of open hunt zone (mi ²) | Number of permit applicants | Number of permits available | Odds of drawing a permit ^a | Number of permits given | Number of persons hunting ^b | Registered turkey harvest | % success ^c |
|-------------------|---|-----------------------------|-----------------------------|---------------------------------------|-------------------------|--|---------------------------|------------------------|
| 1978 | 389 | 10,740 | 420 | 25.6:1 | 411 | 398 | 94 | 23.6 |
| 1979 | 673 | 11,116 | 840 | 13.2:1 | 827 | 794 | 116 | 14.6 |
| 1980 | 858 | 9,613 | 1,200 | 8.0:1 | 1,191 | 1,072 | 98 | 9.1 |
| 1981 | 1,242 | 8,398 | 1,500 | 5.6:1 | 1,437 | 1,292 | 113 | 8.7 |
| 1982 | 1,490 | 7,223 | 2,000 | 3.6:1 | 1,992 | 1,625 | 106 | 6.5 |
| 1983 | 1,807 | 8,153 | 2,100 | 3.9:1 | 2,079 | 1,663 | 116 | 7.0 |
| 1984 | 2,061 | 7,123 | 3,000 | 2.4:1 | 2,837 | 2,270 | 178 | 7.8 |
| 1985 | 2,118 | 5,662 | 2,750 | 2.1:1 | 2,449 | 1,959 | 323 | 16.5 |
| 1986 | 1,897 | 5,715 | 2,500 | 2.3:1 | 2,251 | 1,801 | 333 | 18.5 |
| 1987 | 1,747 | 6,361 | 2,700 | 2.4:1 | 2,520 | 2,016 | 520 | 25.8 |
| 1988 | 1,781 | 8,402 | 3,000 | 2.8:1 | 2,994 | 2,395 | 674 | 28.1 |
| 1989 | 2,341 | 13,007 | 4,000 | 3.3:1 | 3,821 | 3,057 | 930 | 30.4 |
| 1990 | 3,819 | 14,326 | 6,600 | 2.2:1 | 6,126 | 5,513 | 1,709 | 31.0 |
| 1991 | 4,300 | 15,918 | 9,170 | ** | 8,607 | 7,747 | 1,724 | 22.0 |
| 1992 ^d | 4,381 | 15,896 | 9,310 | ** | 9,051 | 8,146 | 1,691 | 21.0 |
| 1993 | 4,921 | 17,224 | 9,625 | ** | 9,265 | 8,339 | 2,082 | 25.0 |
| 1994 | 5,881 | 19,424 | 9,940 | ** | 9,479 | 8,531 | 1,975 | 23.0 |
| 1995 | 7,740 | 20,849 | 9,975 | ** | 9,550 | 8,600 | 2,339 | 27.0 |
| 1996 | 17,004 [‡] | 23,757 | 12,131 | ** | 10,983 | 9,885 | 2,841 | 28.7 |
| 1997 | 20,118 | 25,958 | 12,530 | ** | 11,610 | 10,449 | 3,302 | 31.6 |
| 1998 | 21,013 | 29,727 | 14,035 | ** | 13,229 | 11,906 | 4,361 | 36.6 |
| 1999 | 25,119 | 35,957 | 18,360 | ** | 16,387 | 14,748 | 5,132 | 34.8 |
| 2000 | 27,824 | 42,022 | 20,160 | ** | 18,661 | 17,728 | 6,154 | 34.7 |
| 2001 | 29,876 | 41,048 | 22,936 | ** | 21,404 | 20,334 | 6,383 | 31.4 |
| 2002 | 7,123 [‡] | 42,415 | 24,136 | ** | 22,607 | 21,477 | 6,516 | 30.3 |
| 2003 | 7,364 [‡] | 44,415 | 25,016 | ** | 22,770 | 21,632 | 7,650 | 33.6 |
| 2004 | 8,098 [‡] | 48,059 | 27,600 | ** | 25,261 | 23,998 | 8,434 | 33.4 |

^a Calculated with total permits available to be given, and not adjusting for undersubscribed zones and time periods.

^b For 1978-82, based on a post-hunt mail survey. Number actually hunting in 1983-89 was estimated at 80% (from last year survey results were tabulated). Beginning in 1991, number actually hunting was estimated at 90% (from preliminary results of 1991 survey), this was increased to 95% for 2000.

^c Registered turkey harvest divided by number actually hunting, expressed as %.

^d Legislation allows NON-RESIDENT hunters.

** Computerized preference drawing began Spring 1990.

‡ Open hunt zone area now calculated using deer permit zones.

❖ Total estimated huntable square miles (forest cover buffered by 50 meters with non-huntable areas removed).

Table 39. Spring Wild Turkey harvest in Minnesota, by permit area, 2004.

| Permit Area | Harvest | | | Unknown | Percent (%) Juveniles | Total | Hunter Success (%) ^a |
|-------------|--------------------------|------------------|---------------------|---------|-----------------------|-------|---------------------------------|
| | Number of Permits Issued | Number of Adults | Number of Juveniles | | | | |
| 157 | 33 | 7 | 3 | 0 | 30.0 | 10 | 30.3 |
| 159 | 37 | 4 | 3 | 0 | 42.9 | 7 | 18.9 |
| 221 | 116 | 50 | 6 | 0 | 10.7 | 56 | 48.3 |
| 223 | 441 | 137 | 24 | 0 | 14.9 | 161 | 36.5 |
| 225 | 654 | 139 | 38 | 0 | 21.5 | 177 | 27.1 |
| 227 | 372 | 106 | 29 | 0 | 21.5 | 135 | 36.3 |
| 228 | 289 | 98 | 16 | 0 | 14.0 | 114 | 39.4 |
| 235 | 104 | 23 | 8 | 0 | 25.8 | 31 | 29.8 |
| 236 | 568 | 186 | 36 | 0 | 16.2 | 222 | 39.1 |
| 244 | 111 | 32 | 4 | 0 | 11.1 | 36 | 32.4 |
| 248 | 34 | 11 | 1 | 0 | 8.3 | 12 | 35.3 |
| 249 | 73 | 14 | 2 | 0 | 12.5 | 16 | 21.9 |
| 337 | 390 | 105 | 32 | 0 | 23.4 | 137 | 35.1 |
| 338 | 501 | 136 | 41 | 0 | 23.2 | 177 | 35.3 |
| 339 | 500 | 131 | 46 | 0 | 26.0 | 177 | 35.4 |
| 341 | 1,442 | 435 | 102 | 0 | 19.0 | 537 | 37.2 |
| 342 | 1,480 | 321 | 86 | 0 | 21.1 | 407 | 27.5 |
| 343 | 1,115 | 432 | 63 | 0 | 12.7 | 495 | 44.4 |
| 344 | 775 | 163 | 48 | 0 | 22.7 | 211 | 27.2 |
| 345 | 1,378 | 232 | 67 | 0 | 22.4 | 299 | 21.7 |
| 346 | 2,021 | 409 | 129 | 0 | 24.0 | 538 | 26.6 |
| 347 | 1,136 | 284 | 57 | 0 | 16.7 | 341 | 30.0 |
| 348 | 1,270 | 254 | 78 | 0 | 23.5 | 332 | 26.1 |
| 349 | 2,620 | 621 | 159 | 0 | 20.4 | 780 | 29.8 |
| 410 | 223 | 93 | 12 | 0 | 11.4 | 105 | 47.1 |
| 411 | 224 | 68 | 29 | 0 | 29.9 | 97 | 43.3 |
| 412 | 255 | 97 | 18 | 0 | 15.7 | 115 | 45.1 |
| 414 | 75 | 33 | 1 | 0 | 2.9 | 34 | 45.3 |
| 415 | 409 | 130 | 25 | 0 | 16.1 | 155 | 37.9 |
| 416 | 78 | 25 | 6 | 0 | 19.4 | 31 | 39.7 |
| 417 | 223 | 76 | 13 | 0 | 14.6 | 89 | 39.9 |
| 418 | 365 | 135 | 29 | 0 | 17.7 | 164 | 44.9 |

Table 39. (Continued)

| Permit Area | Harvest | | | | | | Hunter Success (%) |
|----------------------|--------------------------|------------------|---------------------|---------|-----------------------|-------|--------------------|
| | Number of Permits Issued | Number of Adults | Number of Juveniles | Unknown | Percent (%) Juveniles | Total | |
| 419 | 228 | 48 | 17 | 0 | 26.2 | 65 | 28.5 |
| 420 | 35 | 15 | 1 | 0 | 6.3 | 16 | 45.7 |
| 422 | 33 | 7 | 0 | 0 | 0.0 | 7 | 21.2 |
| 425/435 ^b | 365 | 149 | 21 | 0 | 12.4 | 170 | 46.6 |
| 426 | 35 | 7 | 1 | 0 | 12.5 | 8 | 22.9 |
| 427 | 77 | 22 | 4 | 0 | 15.4 | 26 | 33.8 |
| 428 | 104 | 31 | 6 | 0 | 16.2 | 37 | 35.6 |
| 429 | 140 | 24 | 4 | 0 | 14.3 | 28 | 20.0 |
| 431 | 36 | 10 | 10 | 0 | 50.0 | 20 | 55.6 |
| 433 | 41 | 18 | 2 | 0 | 10.0 | 20 | 48.8 |
| 440 | 457 | 111 | 38 | 0 | 25.5 | 149 | 32.6 |
| 442 | 1,190 | 367 | 103 | 0 | 21.9 | 470 | 39.5 |
| 443 | 536 | 125 | 40 | 0 | 24.2 | 165 | 30.8 |
| 446/447 | 35 | 18 | 1 | 0 | 5.3 | 19 | 54.3 |
| 448 | 41 | 26 | 3 | 1 | 10.0 | 30 | 73.2 |
| 449 | 36 | 21 | 1 | 0 | 4.5 | 22 | 61.1 |
| 450 | 40 | 7 | 0 | 0 | 0.0 | 7 | 17.5 |
| 451/452/453 | 46 | 24 | 5 | 0 | 17.2 | 29 | 63.0 |
| 454/455/456/458 | 79 | 20 | 5 | 0 | 20.0 | 25 | 31.6 |
| 457 | 37 | 6 | 1 | 0 | 14.3 | 7 | 18.9 |
| 459 | 106 | 34 | 7 | 0 | 17.1 | 41 | 38.7 |
| 461 | 587 | 169 | 58 | 0 | 25.6 | 227 | 38.7 |
| 462 | 580 | 156 | 43 | 18 | 19.8 | 217 | 37.4 |
| 463 | 154 | 39 | 21 | 0 | 35.0 | 60 | 39.0 |
| 464 | 183 | 44 | 12 | 0 | 21.4 | 56 | 30.6 |
| 465 | 213 | 51 | 19 | 0 | 27.1 | 70 | 32.9 |
| 466 | 255 | 84 | 9 | 0 | 9.7 | 93 | 36.5 |
| 467 | 280 | 80 | 16 | 0 | 16.7 | 96 | 34.3 |
| Unknown | | 48 | 8 | 0 | 14.3 | 56 | |
| Total | 25,261 | 6,748 | 1,667 | 19 | 19.8 | 8,434 | 33.4 |

^a Success rate not adjusted for non-participants.

^b Includes only a small portion of permit area 425.

2004 Spring Wild Turkey Permit Areas

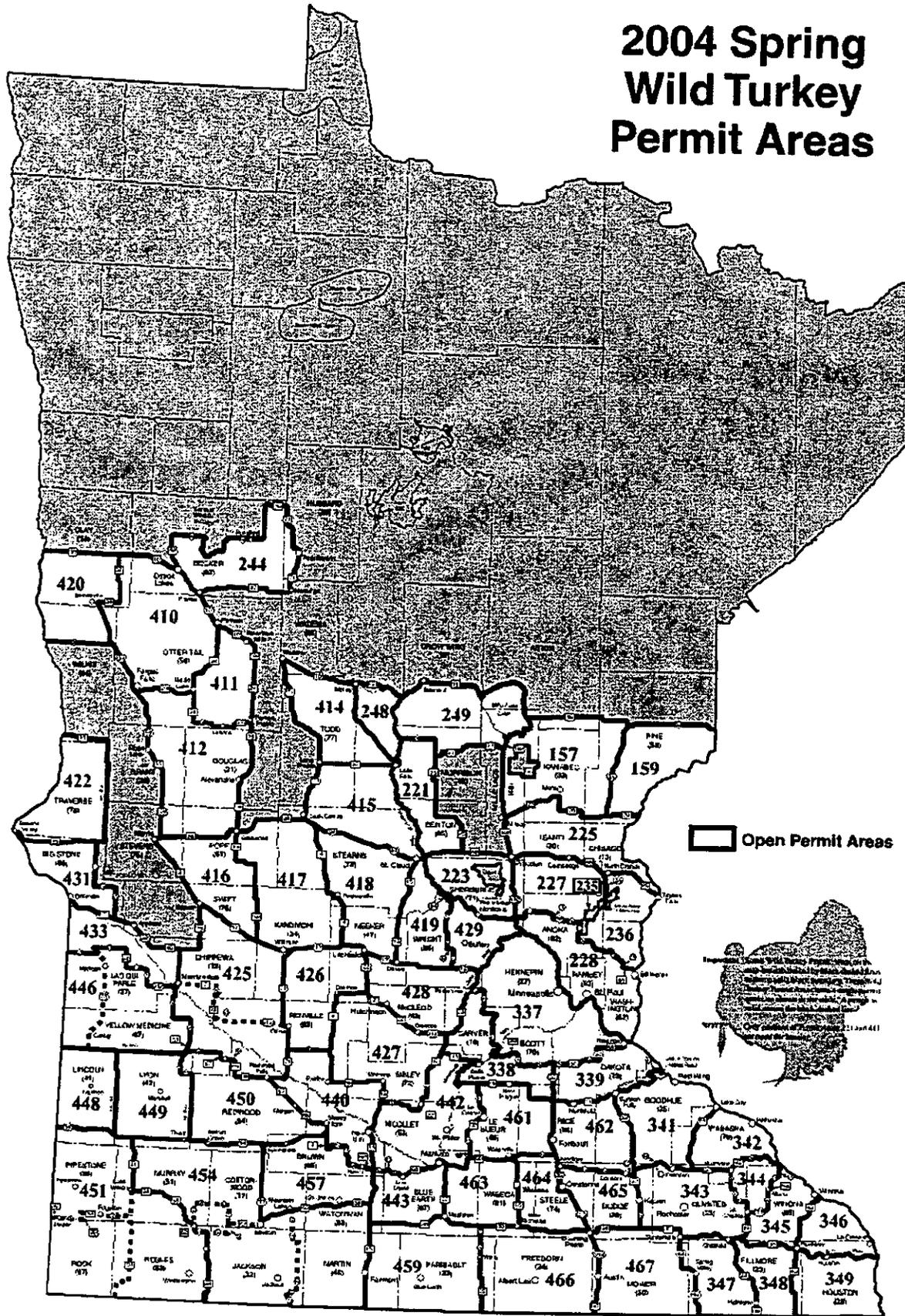


Figure 56. Spring wild turkey hunt permit areas, 2004.

Table 40. Fall turkey hunting summary, 1990-2003.

| Year | Area of open hunt zone (mi ²) | Number of permit applicants | Number of permits available | Number of permits issued | Number of persons hunting ^a | Registered turkey harvest | % Success ^b |
|------|---|-----------------------------|-----------------------------|--------------------------|--|---------------------------|------------------------|
| 1990 | | 4,522 | 1,000 | 951 | 856 | 326 | 38 |
| 1991 | | 2,990 | 2,200 | 2,020 | 1,818 | 552 | 30 |
| 1992 | | 2,750 | 2,200 | 2,028 | 1,825 | 588 | 32 |
| 1993 | | 3,162 | 2,400 | 2,094 | 1,885 | 605 | 32 |
| 1994 | | 3,124 | 2,500 | 2,106 | 1,895 | 601 | 32 |
| 1995 | | 3,590 | 2,500 | 2,125 | 1,913 | 648 | 34 |
| 1996 | 7,241 ^c | 4,366 | 2,500 | 2,289 | 2,060 | 685 | 33 |
| 1997 | 7,241 | 4,574 | 2,580 | 2,378 | 2,140 | 698 | 33 |
| 1998 | 7,241 | 4,526 | 2,710 | 2,483 | 2,235 | 828 | 37 |
| 1999 | 9,286 | 5,354 | 2,890 | 2,644 | 2,380 | 865 | 36 |
| 2000 | 9,286 | 5,263 | 3,090 | 2,484 | 2,236 | 735 | 33 |
| 2001 | 7,566 | 4,501 | 2,870 | 2,262 | 2,036 | 629 | 31 |
| 2002 | 11,168 | 5,180 | 3,790 | 2,945 | 2,651 | 594 | 22 |
| 2003 | 2,871 ^d | 5,264 | 3,870 | 2,977 | 2,679 | 861 | 32 |

^a Number hunting estimated at 90% of permits issued based on survey results.

^b Registered turkey harvest divided by number actually hunting, expressed as %.

^c Total area of open hunt zone calculated from Deer Permit Zone information of area/miles².

^d Total area of open hunt zone calculation based on Total Hunttable Habitat (square miles). Hunttable habitat is forest cover buffered by 50 meters, with non-hunttable areas (e.g. lakes, cities) removed.

Table 41. Fall wild turkey harvest by permit area, 2003.

| Permit Area | Male | | | Female | | | Unknown Age/Sex | Total |
|-------------|----------|-------|---------|----------|-------|---------|-----------------|-------|
| | Juvenile | Adult | Unknown | Juvenile | Adult | Unknown | | |
| 228 | 0 | 3 | | 3 | 5 | | | 11 |
| 236 | 5 | 7 | | 0 | 7 | | | 19 |
| 337 | 3 | 9 | | 4 | 5 | | | 21 |
| 338 | 3 | 11 | | 4 | 6 | | | 24 |
| 339 | 4 | 10 | | 1 | 2 | | | 17 |
| 341 | 5 | 33 | | 13 | 30 | | 12 | 93 |
| 342 | 5 | 18 | | 22 | 40 | | 5 | 90 |
| 343 | 1 | 8 | | 5 | 16 | | 1 | 31 |
| 344 | 3 | 3 | | 5 | 30 | | 1 | 42 |
| 345 | 3 | 6 | | 5 | 8 | | | 22 |
| 346 | 11 | 19 | | 13 | 31 | | | 74 |
| 347 | 10 | 11 | | 0 | 20 | | | 41 |
| 348 | 7 | 8 | | 10 | 38 | | | 63 |
| 349 | 21 | 27 | | 42 | 49 | | | 139 |
| 442 | 14 | 22 | | 15 | 16 | | | 67 |
| 443 | 5 | 6 | | 3 | 2 | | | 16 |
| 448 | 0 | 1 | | 0 | 1 | | | 2 |
| 461 | 6 | 17 | | 6 | 9 | | | 38 |
| 462 | 1 | 3 | | 4 | 8 | | | 16 |
| 464 | 0 | 2 | | 0 | 2 | | | 4 |
| 465 | 0 | 0 | | 1 | 0 | | | 1 |
| 466 | 3 | 4 | | 2 | 7 | 1 | | 17 |
| 467 | 1 | 1 | | 4 | 4 | | | 10 |
| Unknown | 0 | 2 | | 1 | 0 | | | 3 |
| Total | 111 | 231 | 0 | 163 | 336 | 1 | 19 | 861 |

**2003 FALL WILD TURKEY
PERMIT AREA QUOTAS**

| WILD TURKEY PERMIT AREA NUMBER | TIME PERIOD AND DATE | |
|---|-------------------------|-----------------------|
| | A October 15-19 | B October 22-26 |
| 228 | 25 | 25 |
| 236 | 35 | 35 |
| 337 | 40 | 40 |
| 338 | 60 | 60 |
| 339 | 50 | 50 |
| 341 | 200 | 200 |
| 342 | 200 | 200 |
| 343 | 60 | 60 |
| 344 | 100 | 100 |
| 345 | 125 | 125 |
| 346 | 185 | 185 |
| 347 | 75 | 75 |
| 348 | 150 | 150 |
| 349 | 280 | 280 |
| 442 | 100 | 100 |
| 443 | 35 | 35 |
| 448 | 5 | 5 |
| 461 | 50 | 50 |
| 462 | 50 | 50 |
| 464 | 20 | 20 |
| 465 | 20 | 20 |
| 466 | 30 | 30 |
| 467 | 30 | 30 |
| TOTAL | 1,935 | 1,935 |

Carlos Avery W.M.A. Closed to Fall Hunting

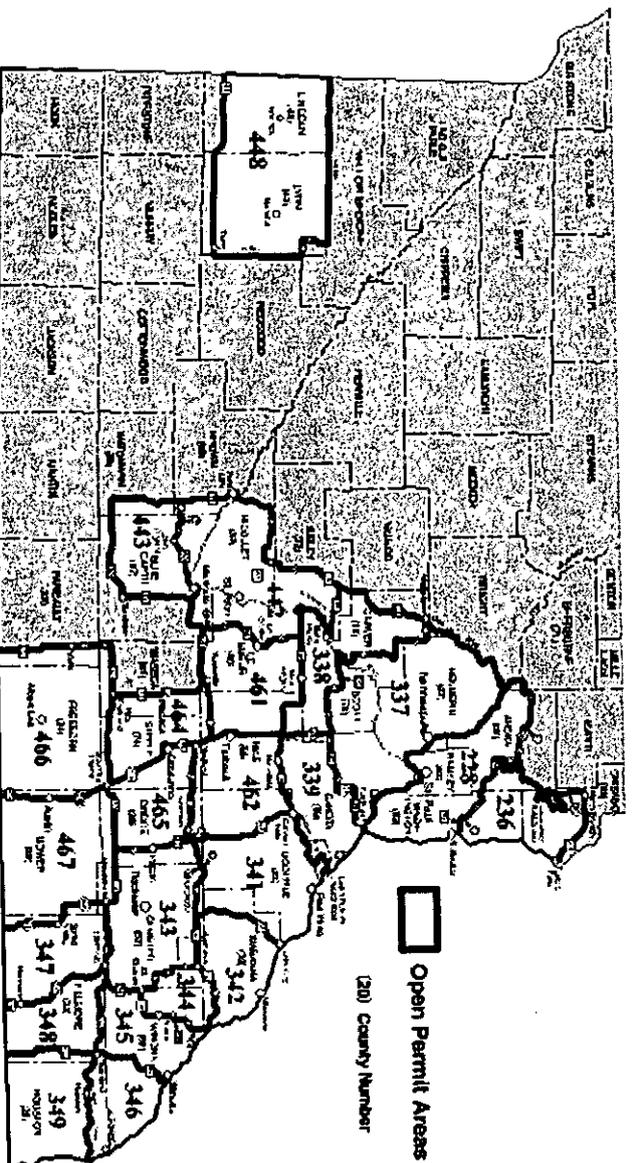


Figure 57. Fall wild turkey hunt zones, 2003.

Table 42. Applicants, permits available, permits issued and harvest by permit area for the Minnesota prairie chicken season, October 2003.

| Permit Area | # Applicants (Landowner) | # Permits Available (Landowner) | #Permits Issued ^a (Landowner) | # Prairie Chickens Registered via ELS | # Prairie Chickens Reported Harvested via Survey | Average # birds per hunter | |
|--------------|--------------------------|---------------------------------|--|---------------------------------------|--|----------------------------|------------|
| | | | | | | ELS | Survey |
| 405A | 120 (2) | 12 (3) | 13 (1) | 23 | 25 | 1.8 | 1.9 |
| 407A | 109 (3) | 13 (3) | 14 (2) | 10 | 12 | 0.7 | 0.9 |
| 407B | 97 (0) | 15 (3) | 13 (0) | 8 | 8 | 0.6 | 0.6 |
| 407C | 80 (2) | 13 (3) | 14 (2) | 20 | 20 | 1.4 | 1.4 |
| 420A | 116 (6) | 14 (3) | 10 (3) | 14 | 15 | 1.4 | 1.5 |
| 420B | 203 (2) | 18 (4) | 17 (2) | 24 | 31 | 1.4 | 1.8 |
| 421A | 128 (3) | 15 (3) | 12 (3) | 16 | 18 | 1.3 | 1.5 |
| Total | 853 (18) | 100 (22) | 93 (13) | 115 | 129 | 1.2 | 1.4 |

Table 43. Hunter success by permit area for the Minnesota prairie chicken season, October 2003.

| Permit Area | Hunters that Harvested 0 Birds | Hunters that Harvested 1 Bird | Hunters that Harvested 2 Birds | Hunters that Harvested at least 1 bird (%) |
|--------------|--------------------------------|-------------------------------|--------------------------------|--|
| 405A | 1 | 1 | 11 | 92.3 |
| 407A | 8 | 2 | 4 | 42.9 |
| 407B | 8 | 2 | 3 | 38.5 |
| 407C | 3 | 2 | 9 | 78.6 |
| 420A | 3 | 0 | 7 | 70.0 |
| 420B | 4 | 2 | 11 | 76.5 |
| 421A | 3 | 2 | 7 | 75.0 |
| Total | 30 | 11 | 52 | 67.7 |

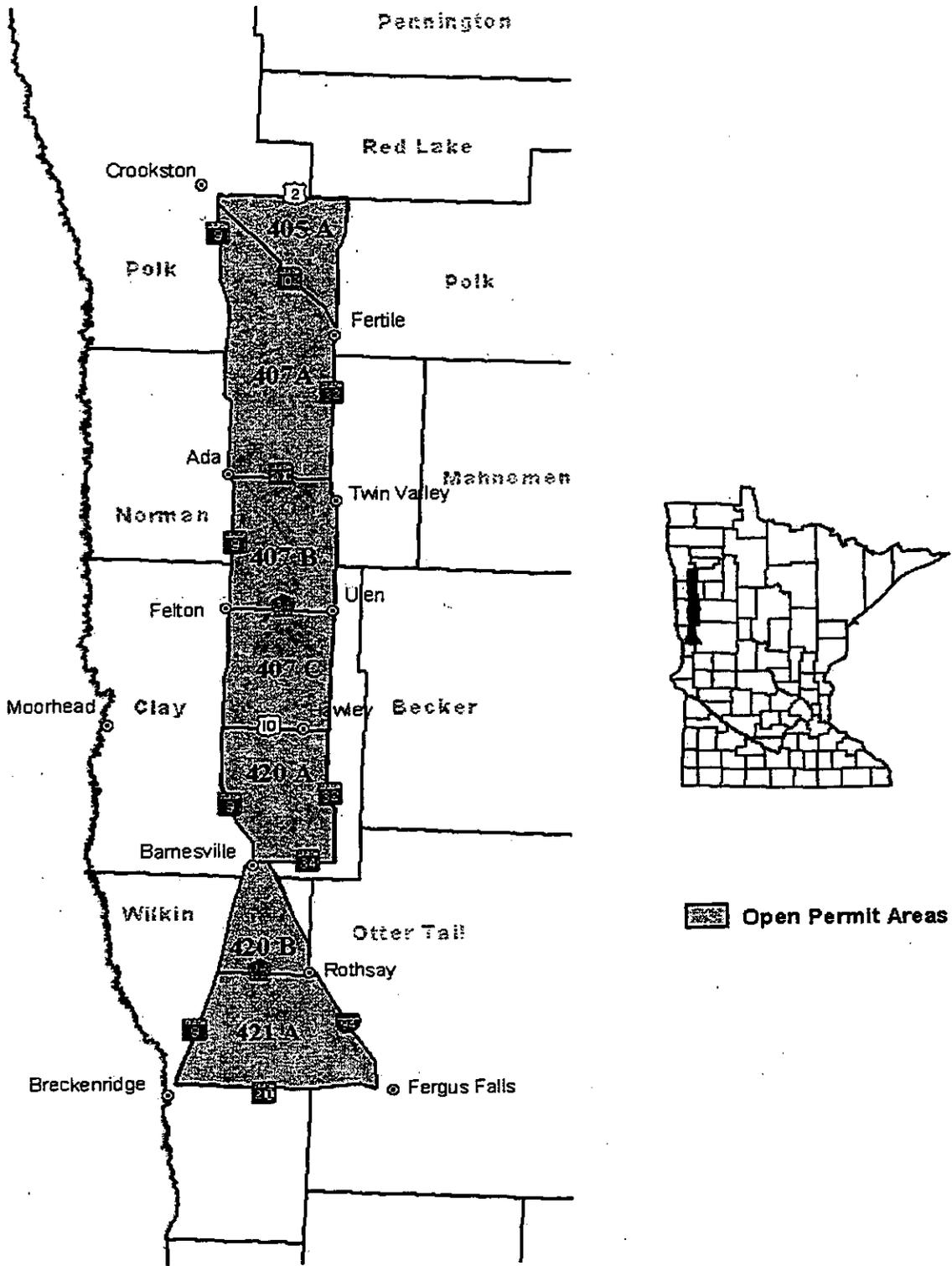


Figure 58. Location of hunting permit areas for the Minnesota prairie chicken season, October 2003.

Table 44. Deer hunting license sales, 1957-2003^a.

| Year | Firearms License Sales | | | Archery License Sales | | | Grand Total |
|-------------------|------------------------|--------------|---------|-----------------------|--------------|--------|-------------|
| | Resident | Non-resident | Total | Resident | Non-resident | Total | |
| 1957 | 180,028 | 488 | 180,516 | 10,033 | 119 | 10,152 | 190,668 |
| 1958 | 203,430 | 552 | 203,982 | 10,968 | 118 | 11,086 | 215,068 |
| 1959 | 200,102 | 530 | 200,632 | 11,768 | 101 | 11,869 | 212,501 |
| 1960 | 233,593 | 621 | 234,214 | 11,834 | 122 | 11,956 | 246,170 |
| 1961 | 250,031 | 632 | 250,663 | 13,229 | 141 | 13,370 | 264,033 |
| 1962 | 244,166 | 676 | 244,842 | 11,776 | 150 | 11,926 | 256,768 |
| 1963 | 257,333 | 771 | 258,104 | 11,724 | 165 | 11,889 | 269,993 |
| 1964 | 278,032 | 1,021 | 279,053 | 13,472 | 193 | 13,665 | 292,718 |
| 1965 | 289,918 | 1,128 | 291,046 | 15,628 | 265 | 15,893 | 306,939 |
| 1966 | 284,195 | 1,287 | 285,482 | 17,203 | 277 | 17,480 | 302,962 |
| 1967 | 305,717 | 1,311 | 307,028 | 18,405 | 289 | 18,694 | 325,722 |
| 1968 | 302,216 | 1,442 | 303,658 | 20,188 | 292 | 20,480 | 324,138 |
| 1969 | 253,891 | 1,168 | 255,059 | 15,658 | 256 | 15,914 | 270,973 |
| 1970 | 188,166 | 334 | 188,500 | 12,277 | 220 | 12,497 | 200,997 |
| 1971 | no firearms season | | | 17,360 | 111 | 17,471 | 17,471 |
| 1972 | 257,998 | 959 | 258,957 | 21,985 | 326 | 22,311 | 281,268 |
| 1973 | 294,349 | 1,342 | 295,691 | 29,169 | 545 | 29,714 | 325,405 |
| 1974 | 296,248 | 1,747 | 297,995 | 30,701 | 644 | 31,345 | 329,340 |
| 1975 | 327,596 | 1,921 | 329,517 | 31,836 | 804 | 32,640 | 362,157 |
| 1976 | 263,868 | 1,029 | 264,897 | 21,773 | 263 | 22,036 | 286,933 |
| 1977 | 287,271 | 1,430 | 288,701 | 29,404 | 402 | 29,806 | 318,507 |
| 1978 | 307,910 | 1,776 | 309,686 | 32,546 | 476 | 33,022 | 342,708 |
| 1979 | 312,754 | 1,910 | 314,664 | 35,657 | 447 | 36,104 | 350,768 |
| 1980 | 344,516 | 2,378 | 346,894 | 41,328 | 634 | 41,962 | 388,856 |
| 1981 | 369,425 | 2,973 | 372,398 | 50,063 | 906 | 50,969 | 423,367 |
| 1982 | 369,018 | 3,038 | 372,056 | 54,084 | 848 | 54,932 | 426,988 |
| 1983 | 391,099 | 3,611 | 394,710 | 55,822 | 478 | 56,300 | 451,010 |
| 1984 | 396,074 | 4,307 | 400,381 | 61,576 | 583 | 62,159 | 462,540 |
| 1985 | 416,474 | 4,983 | 421,457 | 66,687 | 589 | 67,276 | 488,733 |
| 1986 | 413,542 | 4,476 | 418,018 | 68,689 | 547 | 69,236 | 487,254 |
| 1987 | 414,426 | 4,931 | 419,357 | 70,195 | 604 | 70,799 | 490,156 |
| 1988 ^b | 06,733 | 5,616 | 412,349 | 67,182 | 717 | 67,899 | 480,248 |
| 1989 | 405,469 | 6,141 | 411,610 | 66,992 | 714 | 67,706 | 479,316 |
| 1990 | 413,282 | 6,461 | 419,743 | 67,034 | 742 | 67,783 | 427,526 |
| 1991 | 424,576 | 6,854 | 431,430 | 71,168 | 800 | 71,968 | 503,398 |
| 1992 | 448,716 | 8,033 | 456,749 | 71,946 | 914 | 72,860 | 529,609 |
| 1993 | 443,931 | 8,521 | 452,452 | 70,053 | 1,142 | 71,195 | 523,647 |
| 1994 | 452,344 | 9,227 | 461,571 | 71,409 | 1,156 | 72,565 | 534,136 |
| 1995 | 451,164 | 9,401 | 460,565 | 72,477 | 1,180 | 72,477 | 533,042 |
| 1996 | 431,163 | 8,596 | 439,759 | 66,732 | 1,098 | 67,830 | 507,589 |
| 1997 | 369,190 | 7,830 | 377,020 | 63,499 | 980 | 64,479 | 441,499 |
| 1998 | 378,734 | 8,852 | 387,586 | 63,908 | 1,029 | 64,937 | 452,523 |
| 1999 | 399,008 | 9,894 | 408,902 | 66,733 | 1,084 | 67,817 | 476,719 |
| 2000 | 449,112 | 10,767 | 459,879 | 68,947 | 1,271 | 70,218 | 530,097 |
| 2001 | 450,649 | 11,137 | 461,786 | 69,732 | 1,288 | 71,020 | 532,806 |
| 2002 ^c | 429,143 | 11,006 | 440,149 | 57,532 | 1,275 | 58,807 | 498,956 |
| 2003 | 443,265 | 11,334 | 454,599 | 59,339 | 1,428 | 60,767 | 515,366 |

^a Duplicate licenses not included. Leech Lake licenses are included during years they were issued.

^b Bonus licenses not included beginning 1988.

^c Lifetime license sales included 2002.

Table 45. Registered deer harvest and hunter success rates, 1974-2003.

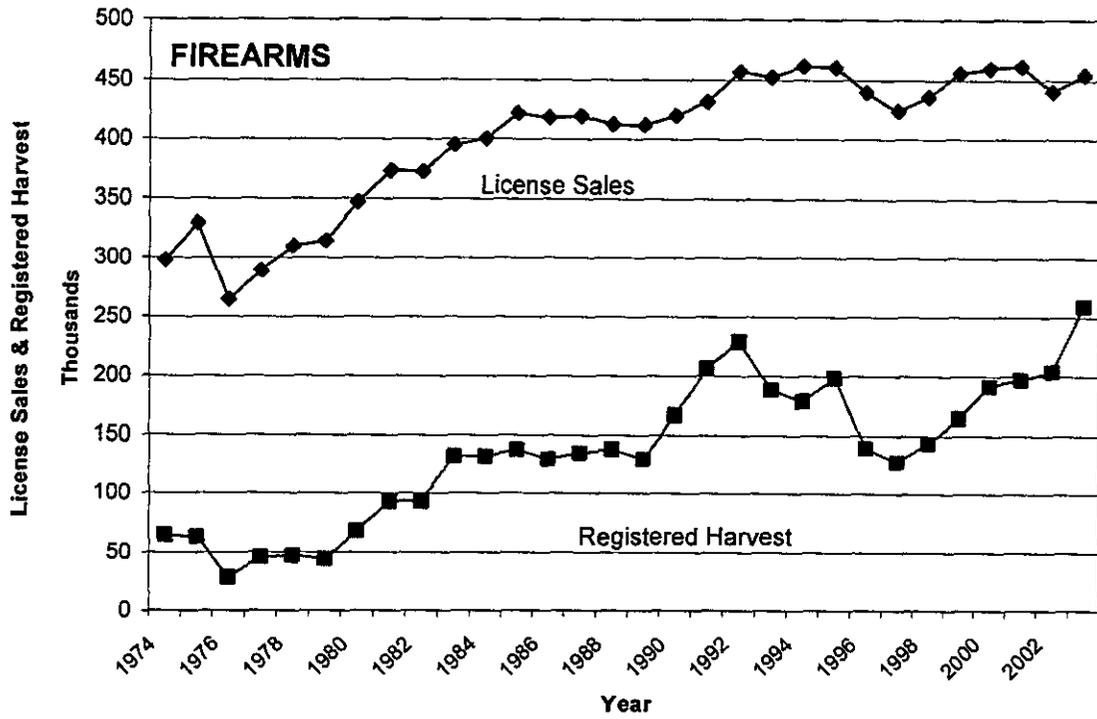
| | Registered Harvest | | | | Percent Success | |
|------|----------------------|---------|--|---------|---|---------|
| | Regular firearms | Archery | Special Muzzleloader season ^a | Total | Regular firearms and special muzzleloader seasons | Archery |
| 1974 | 64,997 | 2,176 | - | 67,173 | 21.8 | 6.9 |
| 1975 | 63,604 | 2,265 | - | 65,869 | 19.3 | 6.9 |
| 1976 | 28,613 | 1,167 | - | 29,780 | 10.8 | 5.3 |
| 1977 | 45,918 | 2,609 | 32 | 48,559 | 15.9 | 8.8 |
| 1978 | 47,372 | 2,608 | 346 | 50,326 | 15.4 | 7.9 |
| 1979 | 44,340 | 2,577 | 318 | 47,235 | 14.2 | 7.1 |
| 1980 | 68,539 | 3,641 | 294 | 72,474 | 19.8 | 8.7 |
| 1981 | 93,027 | 5,535 | 385 | 98,947 | 25.1 | 10.9 |
| 1982 | 93,045 | 5,566 | 441 | 99,052 | 25.1 | 10.1 |
| 1983 | 132,457 | 5,977 | 652 | 139,086 | 33.6 | 10.6 |
| 1984 | 132,042 | 6,390 | 532 | 138,941 | 33.0 | 10.3 |
| 1985 | 138,065 | 7,575 | 563 | 146,203 | 33.4 | 11.3 |
| 1986 | 129,770 | 7,610 | 593 | 137,923 | 31.2 | 11.1 |
| 1987 | 135,003 | 7,535 | 535 | 143,073 | 32.4 | 10.9 |
| 1988 | 138,946 | 8,262 | 686 | 147,894 | 33.6 | 12.0 |
| 1989 | 129,551 | 9,307 | 622 | 139,480 | 31.4 | 13.5 |
| 1990 | 166,589 | 11,106 | 730 | 178,425 | 39.4 | 16.1 |
| 1991 | 206,275 | 12,964 | 961 | 220,200 | 46.9 | 17.5 |
| 1992 | 229,236 | 13,004 | 828 | 243,068 | 46.1 | 14.9 |
| 1993 | 188,109 | 13,722 | 1,097 | 202,928 | 40.0 | 16.1 |
| 1994 | 178,283 | 13,818 | 1,725 | 193,826 | 37.1 | 16.1 |
| 1995 | 198,193 | 14,521 | 2,452 | 215,166 | 40.1 | 16.8 |
| 1996 | 139,348 | 14,338 | 3,367 | 157,053 | 29.8 | 17.1 |
| 1997 | 126,905 | 13,258 | 3,164 | 143,327 | 27.8 | 16.2 |
| 1998 | 143,396 | 12,306 | 3,152 | 158,854 | 31.4 | 15.2 |
| 1999 | 164,265 | 13,376 | 2,928 | 180,569 | 34.8 | 15.8 |
| 2000 | 191,453 | 15,776 | 4,548 | 211,777 | 38.6 | 17.4 |
| 2001 | 197,063 | 15,884 | 4,494 | 217,441 | 37.9 | 17.1 |
| 2002 | 203,793 | 14,752 | 3,505 | 222,050 | 37.4 | 19.2 |
| 2003 | 259,339 ^b | 21,720 | 9,466 ^c | 288,962 | 40.6 | 35.7 |

^a No special muzzleloader seasons were held before 1977.

^b includes landowner harvest (290,525).

^c includes All Season harvest (4,371)

a)



b)

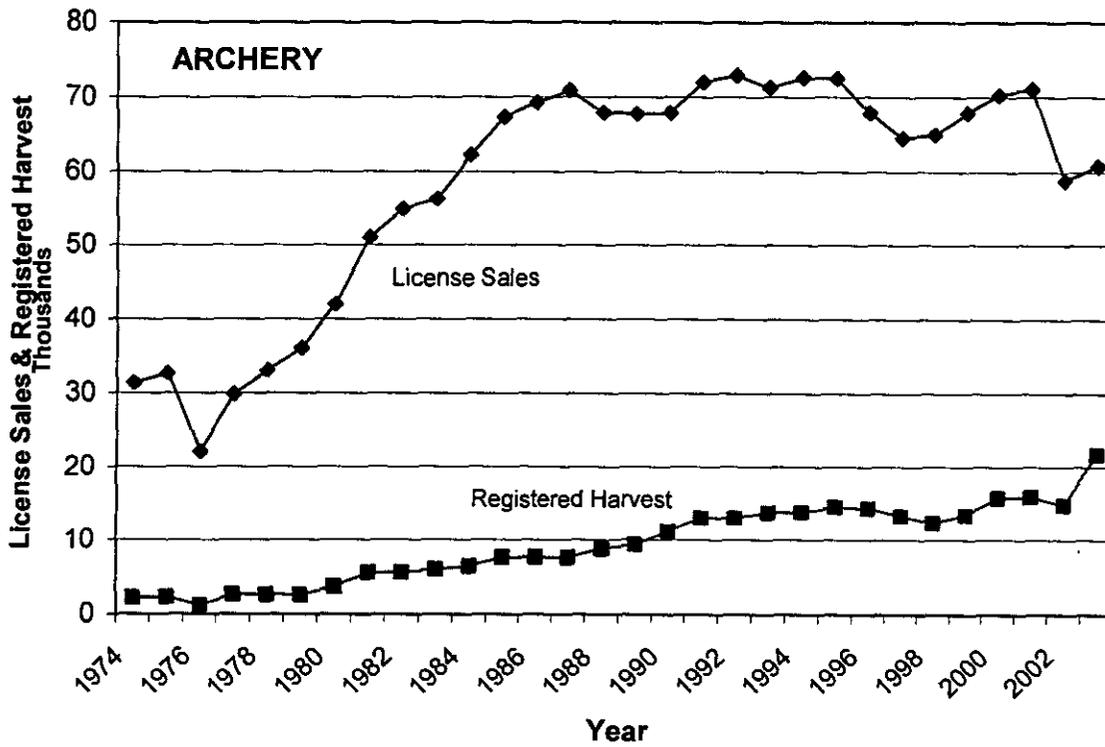


Figure 59. Numbers of Minnesota deer hunting licenses sold and registered harvest by a) firearm and b) archery hunters, 1974 – 2003.

Table 46. White-tailed deer harvest by Sub-DMU and permit area, 2003^a.

| Sub-DMU | Permit Area | Antlerless Registered | Bucks Registered | Total Registered Harvest |
|---------------------|-------------|-----------------------|------------------|--------------------------|
| Red River West | 401A(B) | 77 (65) | 133 (101) | 210 (166) |
| | 402A(B) | 218 (147) | 340 (165) | 558 (312) |
| | Total A(B) | 295 (212) | 473 (266) | 768 (478) |
| Red River East | 403 A(B) | 123 (190) | 149 (179) | 272 (369) |
| | 404 A(B) | 247 (313) | 389 (360) | 636 (673) |
| | 405 A(B) | 274 (256) | 368 (265) | 642 (521) |
| | 406 A(B) | 209 (219) | 342 (234) | 551 (453) |
| | 407 A(B) | 253 (242) | 377 (240) | 630 (482) |
| | 408 A(B) | 245 (183) | 354 (195) | 599 (378) |
| | Total A(B) | 1,351 (1,403) | 1,979 (1,473) | 3,330 (2,876) |
| Aggasiz | 201 | 79 | 123 | 202 |
| | 202 | 261 | 444 | 705 |
| | 203 | 93 | 164 | 257 |
| | 204 | 659 | 1,066 | 1,725 |
| | 205 | 1,307 | 1,997 | 3,304 |
| | 206 | 623 | 920 | 1,543 |
| | 207 | 418 | 639 | 1,057 |
| | 208 | 335 | 474 | 809 |
| | 209 | 436 | 778 | 1,214 |
| | 210 | 564 | 1,152 | 1,716 |
| | Total | 4,775 | 7,757 | 12,532 |
| Rainy River West | 211 | 1,025 | 1,707 | 2,732 |
| | 213 | 0 | 0 | 0 |
| | 214 | 27 | 55 | 82 |
| | Total | 1,052 | 1,762 | 2,814 |
| Rainy River Central | 104 | 1,229 | 1,986 | 3,215 |
| | 110 | 528 | 771 | 1,299 |
| | Total | 1,757 | 2,757 | 4,514 |
| Rainy River East | 107 | 1,770 | 3,134 | 4,904 |
| Superior Wilderness | 115 | 1,636 | 3,396 | 5,032 |
| | 116 | 19 | 231 | 250 |
| | Total | 1,655 | 3,627 | 5,282 |
| Superior Central | 122 | 138 | 503 | 641 |
| Superior East | 126 | 83 | 537 | 620 |
| | 127 | 13 | 117 | 130 |
| | Total | 96 | 654 | 750 |
| Itasca North West | 167 | 484 | 937 | 1,421 |
| | 168 | 944 | 1,969 | 2,913 |
| | 283 | 317 | 397 | 714 |
| | Total | 1,745 | 3,303 | 5,048 |
| Itasca North East | 175 | 1,690 | 3,092 | 4,782 |
| | 178 | 1,791 | 3,394 | 5,185 |
| | Total | 3,481 | 6,486 | 9,967 |

Table 46 (con't.)

| Sub-DMU | Permit Area | Antlerless Registered | Bucks Registered | Total Registered Harvest |
|--------------------|-------------|-----------------------|------------------|--------------------------|
| Itasca South East | 180 | 878 | 2,048 | 2,926 |
| | 181 | 1,233 | 2,674 | 3,907 |
| | 183 | 1,563 | 2,356 | 3,919 |
| | 199 | 22 | 113 | 135 |
| | Total | 3,696 | 7,191 | 10,887 |
| Itasca South West | 170 | 2,754 | 5,032 | 7,786 |
| | 172 | 2,787 | 3,649 | 6,436 |
| | 174 | 1,423 | 2,130 | 3,553 |
| | Total | 6,964 | 10,811 | 17,775 |
| Leech Lake I.R. | 197 | 374 | 1,074 | 1,448 |
| Bemidji | 284 | 4,319 | 6,735 | 11,054 |
| | 285 | 461 | 797 | 1,258 |
| | 287 | 183 | 327 | 510 |
| | Total | 4,963 | 7,859 | 12,822 |
| Mille Lacs West | 244 | 2,359 | 4,085 | 6,444 |
| | 245 | 2,837 | 4,382 | 7,219 |
| | 251 | 140 | 281 | 421 |
| | Total | 5,336 | 8,748 | 14,084 |
| Mille Lacs Central | 242 | 830 | 1,261 | 2,091 |
| | 243 | 1,414 | 2,112 | 3,526 |
| | 246 | 2,655 | 4,091 | 6,746 |
| | 247 | 843 | 1,532 | 2,375 |
| | 248 | 481 | 736 | 1,217 |
| | 249 | 1,488 | 2,272 | 3,760 |
| | Total | 7,711 | 12,004 | 19,715 |
| Mille Lacs East | 152 | 65 | 126 | 191 |
| | 154 | 2,174 | 3,103 | 5,277 |
| | 156 | 1,850 | 2,727 | 4,577 |
| | 157 | 3,125 | 4,890 | 8,015 |
| | 159 | 1,925 | 2,611 | 4,536 |
| | Total | 9,139 | 13,457 | 22,596 |
| White Earth I.R. | 297 | 42 | 239 | 281 |
| | 298 | 593 | 1,230 | 1,823 |
| | Total | 635 | 1,469 | 2,104 |
| Big Woods North | 409 A(B) | 836 (443) | 1,451 (462) | 2,287 (905) |
| | 410 A(B) | 1,233 (398) | 1,998 (545) | 3,231 (943) |
| | 411 A(B) | 1,223 (477) | 1,929 (493) | 3,152 (970) |
| | 412 A(B) | 864 (243) | 1,381 (336) | 2,245 (579) |
| | 413 A(B) | 889 (393) | 1,392 (456) | 2,281 (849) |
| | 414 A(B) | 1,110 (413) | 1,679 (481) | 2,789 (894) |
| | 415 A(B) | 677 (244) | 1,004 (326) | 1,681 (570) |
| | 416 A(B) | 374 (167) | 585 (215) | 959 (382) |
| | 417 A(B) | 825 (283) | 1,075 (393) | 1,900 (676) |
| | 418 A(B) | 514 (158) | 896 (264) | 1,410 (422) |
| | 419 A(B) | 223 (110) | 464 (135) | 687 (245) |
| | 429 A(B) | 107 (59) | 162 (68) | 269 (127) |
| | Total A(B) | 8,875 (3,388) | 14,016 (4,174) | 22,891 (7,562) |

Table 46 (con't.)

| Sub-DMU | Permit Area | Antlerless Registered | Bucks Registered | Total Registered Harvest |
|-----------------------|-------------|-----------------------|------------------|--------------------------|
| Big Woods Central | 221 | 960 | 1,749 | 2,709 |
| | 222 | 853 | 1,553 | 2,406 |
| | 223 | 468 | 876 | 1,344 |
| | 224 | 142 | 262 | 404 |
| | 225 | 1,307 | 2,424 | 3,731 |
| | Total | 3,730 | 6,864 | 10,594 |
| Big Woods Metro North | 227 | 662 | 1,381 | 2,043 |
| | 228 | 147 | 315 | 462 |
| | 235 | 76 | 154 | 230 |
| | 236 | 617 | 1,129 | 1,746 |
| | Total | 1,502 | 2,979 | 4,481 |
| Big Woods Metro South | 337 A(B) | 104 (75) | 260 (104) | 364 (179) |
| | 338 A(B) | 35 (173) | 178 (209) | 213 (382) |
| | 339 A(B) | 26 (130) | 170 (174) | 196 (304) |
| | Total A(B) | 165 (378) | 608 (487) | 773 (865) |
| Big Woods Southeast | 341 A(B) | 63 (562) | 568 (654) | 631 (1,216) |
| | 342 A(B) | 62 (468) | 417 (503) | 479 (971) |
| | 343 A(B) | 41 (485) | 573 (608) | 614 (1,093) |
| | 344 A(B) | 59 (314) | 370 (293) | 429 (607) |
| | 345 A(B) | 30 (344) | 352 (397) | 382 (741) |
| | 346 A(B) | 49 (642) | 675 (735) | 724 (1,377) |
| | 347 A(B) | 38 (462) | 467 (504) | 505 (966) |
| | 348 A(B) | 69 (579) | 555 (598) | 624 (1,177) |
| | 349 A(B) | 64 (880) | 880 (966) | 944 (1,846) |
| | Total A(B) | 475 (4,736) | 4,857 (5,258) | 5,332 (9,994) |
| Prairie North | 420 A(B) | 156 (99) | 275 (151) | 431 (250) |
| | 421 A(B) | 120 (56) | 221 (97) | 341 (153) |
| | 422 A(B) | 116 (47) | 198 (84) | 314 (131) |
| | 423 A(B) | 141 (73) | 226 (94) | 367 (167) |
| | 424 A(B) | 95 (49) | 177 (78) | 272 (127) |
| | 425 A(B) | 43 (22) | 83 (47) | 126 (69) |
| | 426 A(B) | 64 (136) | 177 (122) | 241 (258) |
| | 427 A(B) | 49 (35) | 172 (53) | 221 (88) |
| | 428 A(B) | 111 (75) | 189 (83) | 300 (158) |
| | Total A(B) | 895 (592) | 1,718 (809) | 2,613 (1,401) |
| Prairie River | 431 A(B) | 47 (23) | 140 (53) | 187 (76) |
| | 433 A(B) | 149 (109) | 378 (134) | 527 (243) |
| | 435 A(B) | 152 (78) | 292 (100) | 444 (178) |
| | 440 A(B) | 195 (58) | 289 (54) | 484 (112) |
| | 442 A(B) | 149 (89) | 365 (114) | 514 (203) |
| | 443 A(B) | 77 (61) | 174 (80) | 251 (141) |
| | Total A(B) | 769 (418) | 1,638 (535) | 2,407 (953) |

Table 46 (con't.)

| Sub-DMU | Permit Area | Antlerless Registered | Bucks Registered | Total Registered Harvest |
|----------------------|-------------|-----------------------|------------------|--------------------------|
| Prairie Southwest | 446 A(B) | 92 (79) | 166 (80) | 258 (159) |
| | 447 A(B) | 86 (40) | 196 (42) | 282 (82) |
| | 448 A(B) | 128 (44) | 239 (69) | 367 (113) |
| | 449 A(B) | 166 (61) | 284 (76) | 450 (137) |
| | 450 A(B) | 63 (34) | 133 (52) | 196 (86) |
| | 451 A(B) | 78 (62) | 212 (139) | 290 (201) |
| | 452 A(B) | 86 (93) | 142 (158) | 228 (251) |
| | 453 A(B) | 77 (50) | 211 (88) | 288 (138) |
| | 454 A(B) | 169 (96) | 282 (126) | 451 (222) |
| | 455 A(B) | 13 (16) | 31 (28) | 44 (44) |
| | 456 A(B) | 107 (81) | 199 (118) | 306 (199) |
| | 457 A(B) | 109 (65) | 183 (79) | 292 (144) |
| | 458 A(B) | 95 (62) | 195 (97) | 290 (159) |
| | 459 A(B) | 141 (97) | 278 (132) | 419 (229) |
| | Total A(B) | 1,410 (880) | 2,751 (1,284) | 4,161 (2,164) |
| Prairie Southeast | 461 A(B) | 135 (155) | 262 (191) | 397 (346) |
| | 462 A(B) | 130 (145) | 303 (160) | 433 (305) |
| | 463 A(B) | 85 (42) | 146 (62) | 231 (104) |
| | 464 A(B) | 58 (83) | 122 (106) | 180 (189) |
| | 465 A(B) | 22 (93) | 71 (111) | 93 (204) |
| | 466 A(B) | 82 (179) | 184 (231) | 266 (410) |
| | 467 A(B) | 140 (176) | 292 (196) | 432 (372) |
| | Total A(B) | 652 (873) | 1,380 (1,057) | 2,032 (1,930) |
| Special Hunt Totals* | -- | 296 | 340 | 636 |
| GRAND TOTALS | | 88,582 | 147,542 | 236,124 |

* includes MEA youth firearms hunt and 3B firearms hunts.

Table 47. Archery deer harvest by Sub-DMU and permit areas, 1995-2003.

| Sub-DMU | Permit Area | 1995* | 1996* | 1997* | 1998* | 1999* | 2000* | 2001* | 2002* | 2003* |
|---------------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Red River West | 401 | 159 | 131 | 103 | 63 | 30 | 54 | 98 | 59 | 74 |
| | 402 | 94 | 83 | 74 | 71 | 37 | 88 | 120 | 82 | 110 |
| Red River East | 403 | 121 | 49 | 46 | 43 | 17 | 64 | 59 | 54 | 63 |
| | 404 | 91 | 59 | 42 | 56 | 31 | 45 | 70 | 52 | 71 |
| | 405 | 20 | 18 | 28 | 32 | 5 | 33 | 51 | 34 | 44 |
| | 406 | 14 | 29 | 29 | 40 | 15 | 50 | 70 | 44 | 48 |
| | 407 | 98 | 53 | 82 | 27 | 8 | 44 | 86 | 86 | 69 |
| | 408 | 35 | 13 | 22 | 44 | 1 | 20 | 32 | 37 | 28 |
| Agassiz | 201 | 9 | 6 | 2 | 0 | 2 | 3 | 10 | 4 | 4 |
| | 202 | 21 | 17 | 6 | 2 | 12 | 14 | 35 | 34 | 34 |
| | 203 | 2 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| | 204 | 66 | 49 | 29 | 16 | 31 | 65 | 69 | 45 | 52 |
| | 205 | 183 | 79 | 58 | 56 | 52 | 101 | 58 | 106 | 178 |
| | 206 | 84 | 73 | 42 | 14 | 25 | 50 | 59 | 90 | 111 |
| | 207 | 23 | 13 | 16 | 6 | 8 | 20 | 29 | 15 | 28 |
| | 208 | 32 | 15 | 6 | 2 | 5 | 10 | 18 | 14 | 19 |
| | 209 | 44 | 37 | 44 | 49 | 32 | 36 | 37 | 27 | 45 |
| | 210 | 29 | 17 | 31 | 15 | 18 | 33 | 39 | 39 | 38 |
| Rainy River West | 211 | 116 | 70 | 18 | 4 | 4 | 77 | 70 | 68 | 51 |
| | 213 | 1 | 1 | 1 | 0 | 0 | 0 | 13 | 7 | 0 |
| | 214 | 2 | 9 | 6 | 2 | 2 | 7 | 10 | 8 | 7 |
| Rainy River Central | 104 | 10 | 1 | 0 | 2 | 19 | 24 | 14 | 16 | 42 |
| | 110 | 17 | 4 | 1 | 2 | 10 | 12 | 15 | 20 | 21 |
| Rainy River East | 107 | 20 | 4 | 2 | 2 | 34 | 21 | 38 | 43 | 68 |
| Superior Wilderness | 115 | 0 | 0 | 0 | 1 | 15 | 12 | 28 | 30 | 63 |
| | 116 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 8 |
| Superior Central | 122 | 12 | 4 | 1 | 1 | 1 | 14 | 10 | 9 | 6 |
| Superior East | 126 | 20 | 7 | 3 | 2 | 3 | 14 | 15 | 12 | 16 |
| | 127 | 1 | 0 | 0 | 1 | 4 | 0 | 2 | 1 | 3 |
| Itasca North West | 167 | 13 | 5 | 2 | 3 | 20 | 23 | 21 | 24 | 13 |
| | 168 | 32 | 2 | 5 | 4 | 71 | 57 | 63 | 48 | 43 |
| | 283 | | | | | 7 | 9 | 11 | 12 | 21 |
| Itasca North East | 175 | 50 | 9 | 8 | 10 | 58 | 25 | 67 | 39 | 82 |
| | 178 | 12 | 5 | 2 | 5 | 70 | 34 | 62 | 79 | 121 |
| Itasca South West | 170 | 60 | 15 | 29 | 26 | 139 | 149 | 143 | 92 | 172 |
| | 172 | 47 | 14 | 14 | 28 | 69 | 90 | 64 | 100 | 139 |
| | 174 | 24 | 8 | 8 | 12 | 49 | 63 | 54 | 47 | 75 |
| Itasca South East | 180 | 86 | 3 | 36 | 45 | 39 | 93 | 103 | 63 | 150 |
| | 181 | 32 | 12 | 4 | 10 | 119 | 112 | 154 | 154 | 260 |
| | 183 | 42 | 13 | 17 | 25 | 86 | 94 | 93 | 81 | 126 |
| | 199 | 2 | 3 | 2 | 2 | 6 | 2 | 5 | 1 | 2 |
| Leech Lake I.R. | 197 | 13 | 9 | 2 | 11 | 12 | 39 | 24 | 16 | 25 |
| Bemidji | 284 | 113 | 99 | 46 | 72 | 300 | 377 | 296 | 367 | 836 |
| | 285 | 30 | 15 | 8 | 7 | 6 | 16 | 10 | 17 | 29 |
| | 287 | 10 | 1 | 0 | 0 | 3 | 0 | 3 | 0 | 1 |

Table 47 (cont.)

| Sub-DMU | Permit Area | 1995* | 1996* | 1997* | 1998* | 1999* | 2000* | 2001* | 2002* | 2003* |
|-----------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Mille Lacs West | 244 | 54 | 15 | 56 | 85 | 54 | 151 | 89 | 134 | 455 |
| | 245 | 64 | 10 | 43 | 37 | 114 | 164 | 41 | 50 | 411 |
| | 251 | 7 | 1 | 2 | 4 | 1 | 3 | 1 | 1 | 4 |
| Mille Lacs Central | 242 | | | | | | | | 456 | 484 |
| | 243 | | | | | 93 | 86 | 177 | 106 | 258 |
| | 246 | 129 | 80 | 142 | 160 | 85 | 160 | 177 | 113 | 324 |
| | 247 | 186 | 253 | 222 | 300 | 252 | 340 | 596 | 217 | 208 |
| | 248 | 49 | 56 | 41 | 49 | 69 | 155 | 50 | 91 | 73 |
| | 249 | 74 | 85 | 71 | 97 | 128 | 82 | 103 | 169 | 188 |
| Mille Lacs East | 152 | 3 | 6 | 5 | 5 | 10 | 6 | 5 | 4 | 8 |
| | 154 | 21 | 28 | 33 | 52 | 122 | 137 | 107 | 209 | 189 |
| | 156 | 50 | 67 | 53 | 78 | 82 | 120 | 96 | 89 | 140 |
| | 157 | 62 | 66 | 68 | 69 | 231 | 429 | 375 | 462 | 523 |
| | 159 | 122 | 147 | 131 | 162 | 157 | 323 | 310 | 234 | 273 |
| White Earth I.R. | 297 | 7 | 0 | 4 | 0 | 0 | 5 | 1 | 1 | 5 |
| | 298 | 2 | 1 | 0 | 1 | 3 | 11 | 7 | 2 | 21 |
| Big Woods North | 409 | 185 | 252 | 274 | 217 | 160 | 381 | 290 | 139 | 226 |
| | 410 | 242 | 175 | 169 | 84 | 39 | 228 | 251 | 271 | 256 |
| | 411 | 202 | 181 | 164 | 163 | 118 | 232 | 338 | 256 | 306 |
| | 412 | 269 | 288 | 189 | 111 | 226 | 241 | 242 | 208 | 207 |
| | 413 | 288 | 293 | 224 | 266 | 173 | 275 | 239 | 331 | 339 |
| | 414 | 234 | 123 | 204 | 210 | 241 | 303 | 289 | 195 | 277 |
| | 415 | 205 | 218 | 215 | 243 | 276 | 174 | 335 | 242 | 231 |
| | 416 | 84 | 161 | 116 | 157 | 188 | 164 | 141 | 42 | 89 |
| | 417 | 256 | 275 | 339 | 180 | 258 | 207 | 189 | 119 | 186 |
| | 418 | 252 | 248 | 286 | 188 | 207 | 169 | 163 | 220 | 240 |
| | 419 | 246 | 280 | 242 | 227 | 220 | 223 | 252 | 159 | 178 |
| | 429 | 76 | 118 | 142 | 121 | 122 | 106 | 125 | 140 | 153 |
| | Big Woods Central | 221 | 77 | 126 | 95 | 115 | 112 | 261 | 145 | 207 |
| 222 | | 57 | 48 | 35 | 63 | 53 | 100 | 147 | 146 | 195 |
| 223 | | 293 | 342 | 265 | 260 | 250 | 287 | 246 | 313 | 449 |
| 224 | | 10 | 17 | 21 | 13 | 10 | 22 | 15 | 24 | 29 |
| 225 | | 77 | 154 | 129 | 120 | 351 | 334 | 424 | 304 | 444 |
| Big Woods Metro North | 227 | 353 | 382 | 343 | 325 | 396 | 376 | 488 | 418 | 615 |
| | 228 | 711 | 828 | 734 | 756 | 768 | 772 | 790 | 551 | 821 |
| | 235 | 44 | 41 | 68 | 29 | 38 | 29 | 37 | 22 | 48 |
| | 236 | 623 | 611 | 572 | 550 | 583 | 524 | 618 | 705 | 902 |
| Big Woods Metro South | 337 | 953 | 901 | 821 | 681 | 817 | 820 | 747 | 567 | 764 |
| | 338 | 215 | 158 | 127 | 147 | 82 | 104 | 109 | 65 | 107 |
| | 339 | 245 | 244 | 239 | 220 | 226 | 165 | 226 | 209 | 175 |
| Big Woods Southeast | 341 | 223 | 279 | 286 | 317 | 363 | 353 | 352 | 353 | 349 |
| | 342 | 129 | 133 | 119 | 120 | 128 | 194 | 181 | 143 | 165 |
| | 343 | 391 | 467 | 615 | 476 | 573 | 524 | 590 | 551 | 522 |
| | 344 | 88 | 105 | 91 | 48 | 70 | 68 | 41 | 57 | 79 |
| | 345 | 197 | 154 | 174 | 159 | 145 | 214 | 142 | 193 | 137 |
| | 346 | 105 | 190 | 270 | 167 | 168 | 216 | 194 | 203 | 424 |
| | 347 | 195 | 197 | 201 | 151 | 184 | 198 | 196 | 198 | 179 |
| | 348 | 70 | 163 | 156 | 195 | 171 | 250 | 186 | 198 | 173 |
| | 349 | 84 | 150 | 173 | 181 | 182 | 274 | 258 | 269 | 400 |

Table 47 (cont.)

| Sub-DMU | Permit Area | 1995* | 1996* | 1997* | 1998* | 1999* | 2000* | 2001* | 2002* | 2003* |
|-------------------|-------------|-----------------|------------------|--------------------|------------------|------------------|--------------------|--------------------|--------------------|---------------------|
| Prairie North | 420 | 94 | 128 | 72 | 0 | 24 | 71 | 83 | 74 | 63 |
| | 421 | 81 | 83 | 75 | 29 | 30 | 61 | 82 | 50 | 50 |
| | 422 | 52 | 64 | 46 | 38 | 43 | 28 | 38 | 23 | 25 |
| | 423 | 46 | 35 | 21 | 38 | 23 | 23 | 33 | 23 | 23 |
| | 424 | 65 | 118 | 57 | 23 | 35 | 37 | 28 | 15 | 19 |
| | 425 | 102 | 90 | 26 | 19 | 46 | 25 | 20 | 18 | 18 |
| | 426 | 101 | 52 | 39 | 38 | 82 | 38 | 53 | 27 | 47 |
| | 427 | 51 | 45 | 44 | 43 | 37 | 35 | 48 | 30 | 22 |
| | 428 | 89 | 96 | 82 | 80 | 81 | 82 | 106 | 51 | 55 |
| Prairie River | 431 | 38 | 91 | 56 | 76 | 80 | 33 | 16 | 13 | 12 |
| | 433 | 122 | 137 | 151 | 78 | 121 | 114 | 94 | 56 | 61 |
| | 435 | 71 | 91 | 99 | 52 | 61 | 64 | 65 | 24 | 31 |
| | 440 | 112 | 122 | 130 | 97 | 96 | 121 | 91 | 75 | 50 |
| | 442 | 222 | 203 | 191 | 169 | 145 | 221 | 219 | 156 | 184 |
| | 443 | 76 | 97 | 72 | 81 | 58 | 87 | 84 | 59 | 55 |
| Prairie Southwest | 446 | 23 | 31 | 15 | 28 | 16 | 43 | 24 | 12 | 28 |
| | 447 | 38 | 45 | 24 | 42 | 24 | 48 | 21 | 10 | 19 |
| | 448 | 40 | 41 | 26 | 26 | 20 | 18 | 36 | 22 | 26 |
| | 449 | 100 | 113 | 79 | 78 | 36 | 49 | 83 | 44 | 64 |
| | 450 | 44 | 32 | 35 | 28 | 33 | 23 | 27 | 19 | 25 |
| | 451 | 57 | 79 | 48 | 39 | 35 | 39 | 40 | 31 | 37 |
| | 452 | 37 | 83 | 45 | 72 | 53 | 68 | 37 | 36 | 69 |
| | 453 | 43 | 57 | 38 | 29 | 39 | 37 | 19 | 27 | 36 |
| | 454 | 77 | 156 | 81 | 77 | 85 | 87 | 79 | 60 | 55 |
| | 455 | 18 | 11 | 10 | 17 | 16 | 19 | 18 | 10 | 11 |
| | 456 | 77 | 80 | 96 | 71 | 93 | 82 | 61 | 46 | 41 |
| | 457 | 33 | 78 | 44 | 40 | 58 | 66 | 44 | 36 | 39 |
| | 458 | 60 | 83 | 59 | 52 | 54 | 61 | 41 | 38 | 42 |
| 459 | 84 | 106 | 123 | 73 | 91 | 84 | 59 | 46 | 74 | |
| Prairie Southeast | 461 | 131 | 108 | 132 | 163 | 125 | 152 | 74 | 62 | 89 |
| | 462 | 234 | 275 | 206 | 218 | 265 | 206 | 240 | 238 | 184 |
| | 463 | 47 | 44 | 26 | 52 | 34 | 37 | 51 | 27 | 22 |
| | 464 | 64 | 125 | 77 | 92 | 50 | 48 | 48 | 50 | 50 |
| | 465 | 171 | 172 | 143 | 135 | 159 | 94 | 68 | 75 | 124 |
| | 466 | 113 | 164 | 133 | 163 | 223 | 221 | 98 | 95 | 112 |
| | 467 | 173 | 162 | 204 | 235 | 130 | 200 | 218 | 195 | 232 |
| Unknown | UNK | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Camp Ripley | | 247 | 160 | 142 | 175 | 203 | 375 | 350 | 337 | 440 |
| TOTAL | | 4,013 (527)† | 14,338 (765)† | 13,258 (1,009)† | 12,306 (448)† | 13,376 (581)† | 16,151 (1,167)† | 16,245 (1,639)† | 14,752 (2,638)† | 19,335 (10,032)† |

* Includes Regular licenses, Management permits, Intensive harvest permits, and Special permit areas.

† Harvest in () shows Intensive Harvest Permit harvest.

Table 48. Muzzleloader Season harvest by block, 2003 (Includes Special Permit Areas)

| Permit Area | Adult Male | Fawn Male | Adult Female | Fawn Female | Total |
|-------------|------------|-----------|--------------|-------------|-------|
| 104 | 3 | 1 | 8 | 2 | 14 |
| 107 | 1 | 0 | 4 | 2 | 7 |
| 110 | 1 | 2 | 2 | 0 | 5 |
| 115 | 4 | 3 | 8 | 0 | 15 |
| 122 | 0 | 0 | 1 | 0 | 1 |
| 152 | 1 | 0 | 5 | 4 | 10 |
| 154 | 2 | 5 | 14 | 4 | 25 |
| 156 | 3 | 2 | 18 | 5 | 28 |
| 157 | 10 | 24 | 55 | 15 | 104 |
| 159 | 8 | 12 | 25 | 2 | 47 |
| 167 | 4 | 0 | 1 | 0 | 5 |
| 168 | 1 | 0 | 6 | 0 | 7 |
| 170 | 5 | 5 | 36 | 7 | 53 |
| 172 | 4 | 11 | 30 | 1 | 46 |
| 174 | 1 | 2 | 9 | 1 | 13 |
| 175 | 5 | 1 | 4 | 0 | 10 |
| 178 | 9 | 0 | 3 | 0 | 12 |
| 180 | 5 | 0 | 8 | 1 | 14 |
| 181 | 2 | 1 | 10 | 0 | 13 |
| 183 | 2 | 2 | 6 | 2 | 12 |
| 197 | 2 | 1 | 1 | 0 | 4 |
| 201 | 1 | 1 | 1 | 1 | 4 |
| 202 | 1 | 1 | 2 | 0 | 4 |
| 204 | 4 | 5 | 16 | 3 | 28 |
| 205 | 17 | 11 | 44 | 12 | 84 |
| 206 | 5 | 6 | 24 | 2 | 37 |
| 207 | 4 | 5 | 11 | 4 | 24 |
| 208 | 1 | 3 | 4 | 1 | 9 |
| 209 | 3 | 1 | 8 | 0 | 12 |
| 210 | 1 | 1 | 5 | 2 | 9 |
| 211 | 8 | 4 | 38 | 2 | 52 |
| 221 | 4 | 3 | 10 | 3 | 20 |
| 222 | 4 | 13 | 13 | 6 | 36 |
| 223 | 3 | 9 | 29 | 5 | 46 |
| 225 | 4 | 16 | 26 | 13 | 59 |
| 227 | 10 | 14 | 35 | 10 | 69 |
| 228 | 5 | 4 | 8 | 4 | 21 |
| 235 | 3 | 2 | 4 | 0 | 9 |
| 236 | 7 | 8 | 37 | 6 | 58 |

| Permit Area | Adult Male | Fawn Male | Adult Female | Fawn Female | Total |
|-------------|------------|-----------|--------------|-------------|-------|
| 248 | 7 | 5 | 28 | 10 | 50 |
| 249 | 5 | 4 | 23 | 5 | 37 |
| 251 | 0 | 1 | 1 | 0 | 2 |
| 283 | 1 | 0 | 15 | 1 | 17 |
| 284 | 14 | 24 | 58 | 23 | 119 |
| 285 | 4 | 8 | 4 | 4 | 20 |
| 297 | 0 | 1 | 1 | 0 | 2 |
| 298 | 0 | 2 | 4 | 2 | 8 |
| 337 | 17 | 10 | 21 | 4 | 52 |
| 338 | 6 | 3 | 18 | 1 | 28 |
| 339 | 4 | 3 | 10 | 0 | 17 |
| 341 | 11 | 8 | 26 | 6 | 51 |
| 342 | 19 | 6 | 26 | 6 | 57 |
| 343 | 11 | 9 | 46 | 5 | 71 |
| 344 | 4 | 4 | 12 | 2 | 22 |
| 345 | 3 | 4 | 8 | 0 | 15 |
| 346 | 4 | 11 | 31 | 6 | 52 |
| 347 | 12 | 5 | 31 | 4 | 52 |
| 348 | 13 | 12 | 30 | 6 | 61 |
| 349 | 9 | 15 | 58 | 8 | 90 |
| 401 | 24 | 7 | 25 | 8 | 64 |
| 402 | 8 | 13 | 36 | 15 | 72 |
| 403 | 13 | 7 | 37 | 11 | 68 |
| 404 | 6 | 4 | 23 | 8 | 41 |
| 405 | 9 | 5 | 13 | 4 | 31 |
| 406 | 5 | 4 | 9 | 1 | 19 |
| 407 | 11 | 13 | 31 | 12 | 67 |
| 408 | 5 | 4 | 13 | 5 | 27 |
| 409 | 3 | 21 | 45 | 15 | 84 |
| 410 | 9 | 25 | 62 | 22 | 118 |
| 411 | 1 | 4 | 14 | 4 | 23 |
| 412 | 5 | 9 | 22 | 6 | 42 |
| 413 | 7 | 21 | 56 | 8 | 92 |
| 414 | 4 | 21 | 51 | 16 | 92 |
| 415 | 8 | 7 | 18 | 13 | 46 |
| 416 | 4 | 8 | 19 | 4 | 35 |
| 417 | 9 | 7 | 53 | 8 | 77 |
| 418 | 6 | 7 | 22 | 8 | 43 |
| 419 | 7 | 16 | 49 | 6 | 78 |

Table 48. (cont.)

| Permit Area | Adult Male | Fawn Male | Adult Female | Fawn Female | Total |
|-------------|------------|-----------|--------------|-------------|-------|
| 242 | 11 | 13 | 46 | 10 | 80 |
| 243 | 5 | 9 | 40 | 9 | 63 |
| 244 | 7 | 23 | 50 | 13 | 93 |
| 245 | 22 | 29 | 100 | 23 | 174 |
| 246 | 7 | 17 | 51 | 11 | 86 |
| 247 | 5 | 3 | 13 | 5 | 26 |
| 426 | 5 | 2 | 18 | 0 | 25 |
| 427 | 5 | 2 | 5 | 1 | 13 |
| 428 | 7 | 3 | 6 | 1 | 17 |
| 429 | 3 | 13 | 34 | 4 | 54 |
| 431 | 6 | 3 | 14 | 3 | 26 |
| 433 | 23 | 11 | 55 | 11 | 100 |
| 435 | 6 | 0 | 9 | 0 | 15 |
| 440 | 5 | 1 | 15 | 1 | 22 |
| 442 | 15 | 5 | 31 | 5 | 56 |
| 443 | 7 | 4 | 24 | 2 | 37 |
| 446 | 10 | 6 | 11 | 1 | 28 |
| 447 | 7 | 4 | 14 | 3 | 28 |
| 448 | 11 | 3 | 18 | 2 | 34 |
| 449 | 14 | 6 | 26 | 5 | 51 |
| 450 | 4 | 0 | 9 | 0 | 13 |
| 451 | 16 | 6 | 11 | 4 | 37 |
| 452 | 15 | 3 | 32 | 5 | 55 |
| 453 | 20 | 2 | 15 | 3 | 40 |
| 454 | 16 | 1 | 32 | 7 | 56 |
| 455 | 3 | 0 | 4 | 0 | 7 |

| Permit Area | Adult Male | Fawn Male | Adult Female | Fawn Female | Total |
|--------------|------------|------------|--------------|-------------|--------------|
| 420 | 8 | 5 | 14 | 1 | 28 |
| 421 | 8 | 1 | 4 | 1 | 14 |
| 422 | 1 | 4 | 4 | 0 | 9 |
| 423 | 5 | 3 | 4 | 1 | 13 |
| 424 | 12 | 4 | 20 | 7 | 43 |
| 425 | 6 | 1 | 4 | 0 | 11 |
| 456 | 17 | 5 | 18 | 1 | 41 |
| 457 | 5 | 3 | 18 | 2 | 28 |
| 458 | 9 | 8 | 17 | 1 | 35 |
| 459 | 20 | 4 | 27 | 9 | 60 |
| 461 | 10 | 9 | 34 | 5 | 58 |
| 462 | 13 | 11 | 38 | 8 | 70 |
| 463 | 5 | 1 | 2 | 0 | 8 |
| 464 | 3 | 2 | 2 | 0 | 7 |
| 465 | 9 | 6 | 16 | 3 | 34 |
| 466 | 28 | 11 | 52 | 19 | 110 |
| 467 | 20 | 13 | 75 | 11 | 119 |
| 931 | 1 | 7 | 31 | 14 | 53 |
| 932 | 7 | 6 | 20 | 11 | 44 |
| 933 | 4 | 3 | 5 | 2 | 14 |
| 935 | 13 | 13 | 20 | 6 | 52 |
| 936 | 0 | 5 | 14 | 1 | 20 |
| 937 | 0 | 7 | 11 | 2 | 20 |
| TOTAL | 905 | 818 | 2,751 | 621 | 5,095 |

Table 49. Muzzleloader Special Permit Area Data, 2003.

| Area | Dates | Permits Issued | Harvest | | | | Total |
|--|---------------|----------------|------------|-----------|--------------|-------------|-------|
| | | | Adult Male | Fawn Male | Adult Female | Fawn Female | |
| 931 - Jay Cooke SP ¹ | 11/29 - 12/3 | 90* | 3 | 11 | 38 | 16 | 68 |
| 932 - Crow Wing SP ¹ | 12/5 - 12/7 | 40** | 8 | 6 | 23 | 11 | 48 |
| 933 - Afton SP ¹ | 12/3 - 12/4 | 40** | 4 | 3 | 7 | 2 | 16 |
| 934 - Lake Shetek SP | 12/6 - 12/9 | 15*** | 0 | 0 | 0 | 0 | 0 |
| 935 - Nerstrand Woods SP/Prairie Creek SNA ¹ | 11/29-12/1 | 50** | 14 | 13 | 21 | 7 | 55 |
| | 12/5 - 12/7 | | | | | | |
| 936 - Rice Lake SP ¹ | 11/29-12/1 | 15*** | 0 | 5 | 14 | 1 | 20 |
| | 12/5 - 12/7 | | | | | | |
| 937 - Myre-Big Island SP | 11/29-12/1 | 40*** | 0 | 7 | 11 | 2 | 20 |
| | 12/13 - 12/14 | | | | | | |
| TOTAL | | | 29 | 45 | 114 | 39 | 227 |

¹ Intensive harvest permits available

*Either Sex opening day only

**Either Sex

***Antlerless Only

Table 50. All -season Deer Harvest by Permit Area, 2003

| Zone 1 | | | | | |
|---------------------|--------------|------------|--------------|-------------|--------------|
| Permit Area | Adult Male | Fawn Male | Adult Female | Fawn Female | Total |
| 104 | 51 | 5 | 28 | 5 | 89 |
| 107 | 94 | 16 | 52 | 6 | 168 |
| 110 | 13 | 4 | 16 | 5 | 38 |
| 115 | 111 | 8 | 41 | 5 | 165 |
| 116 | 5 | 0 | 0 | 0 | 5 |
| 122 | 18 | 3 | 5 | 0 | 26 |
| 126 | 29 | 0 | 3 | 0 | 32 |
| 127 | 10 | 0 | 1 | 0 | 11 |
| 152 | 5 | 2 | 4 | 1 | 12 |
| 154 | 75 | 13 | 37 | 13 | 138 |
| 156 | 63 | 6 | 45 | 7 | 121 |
| 157 | 97 | 12 | 65 | 18 | 192 |
| 159 | 56 | 14 | 42 | 5 | 117 |
| 167 | 46 | 8 | 36 | 3 | 93 |
| 168 | 79 | 13 | 63 | 18 | 173 |
| 170 | 168 | 24 | 98 | 13 | 303 |
| 172 | 138 | 22 | 86 | 16 | 262 |
| 174 | 47 | 5 | 37 | 8 | 97 |
| 175 | 69 | 5 | 29 | 3 | 106 |
| 178 | 76 | 7 | 21 | 5 | 109 |
| 180 | 71 | 11 | 25 | 3 | 110 |
| 181 | 76 | 11 | 25 | 4 | 116 |
| 183 | 65 | 7 | 36 | 8 | 116 |
| 197 | 65 | 4 | 34 | 3 | 106 |
| 199 | 1 | 1 | 1 | 0 | 3 |
| Zone 1 Total | 1,528 | 201 | 830 | 149 | 2,708 |

| Zone 2 | | | | | |
|---------------------|--------------|------------|--------------|-------------|--------------|
| Permit Area | Adult Male | Fawn Male | Adult Female | Fawn Female | Total |
| 201 | 9 | 0 | 5 | 0 | 14 |
| 202 | 14 | 0 | 5 | 3 | 22 |
| 203 | 12 | 0 | 8 | 0 | 20 |
| 204 | 32 | 5 | 35 | 8 | 80 |
| 205 | 50 | 15 | 29 | 4 | 98 |
| 206 | 35 | 6 | 28 | 3 | 72 |
| 207 | 31 | 2 | 10 | 4 | 47 |
| 208 | 15 | 0 | 14 | 1 | 30 |
| 209 | 18 | 2 | 6 | 3 | 29 |
| 210 | 39 | 5 | 25 | 6 | 75 |
| 211 | 70 | 6 | 38 | 4 | 118 |
| 214 | 2 | 0 | 0 | 0 | 2 |
| 221 | 39 | 9 | 26 | 2 | 76 |
| 222 | 37 | 7 | 29 | 2 | 75 |
| 223 | 30 | 4 | 12 | 4 | 50 |
| 224 | 11 | 2 | 3 | 2 | 18 |
| 225 | 48 | 15 | 33 | 9 | 105 |
| 227 | 45 | 5 | 33 | 6 | 89 |
| 228 | 15 | 0 | 5 | 1 | 21 |
| 235 | 2 | 0 | 1 | 0 | 3 |
| 236 | 43 | 1 | 12 | 2 | 58 |
| 242 | 29 | 3 | 16 | 8 | 56 |
| 243 | 69 | 12 | 48 | 13 | 142 |
| 244 | 99 | 24 | 85 | 24 | 232 |
| 245 | 118 | 31 | 74 | 18 | 241 |
| 246 | 111 | 21 | 76 | 20 | 228 |
| 247 | 42 | 4 | 27 | 7 | 80 |
| 248 | 31 | 10 | 24 | 5 | 70 |
| 249 | 51 | 10 | 42 | 9 | 112 |
| 251 | 13 | 3 | 9 | 6 | 31 |
| 283 | 15 | 5 | 13 | 0 | 33 |
| 284 | 175 | 36 | 131 | 32 | 374 |
| 285 | 20 | 2 | 9 | 2 | 33 |
| 287 | 7 | 1 | 4 | 1 | 13 |
| 297 | 16 | 0 | 2 | 0 | 18 |
| 298 | 51 | 7 | 18 | 8 | 84 |
| Zone 2 Total | 1,444 | 253 | 935 | 217 | 2,849 |

| Zone 3 | | | | | |
|---------------------|------------|-----------|--------------|-------------|------------|
| Permit Area | Adult Male | Fawn Male | Adult Female | Fawn Female | Total |
| 337 | 20 | 1 | 5 | 0 | 26 |
| 338 | 18 | 0 | 5 | 0 | 23 |
| 339 | 7 | 0 | 3 | 0 | 10 |
| 341 | 22 | 1 | 5 | 1 | 29 |
| 342 | 21 | 3 | 6 | 0 | 30 |
| 343 | 17 | 2 | 11 | 1 | 31 |
| 344 | 12 | 1 | 2 | 1 | 16 |
| 345 | 15 | 3 | 2 | 0 | 20 |
| 346 | 22 | 3 | 9 | 1 | 35 |
| 347 | 29 | 4 | 6 | 2 | 41 |
| 348 | 19 | 5 | 7 | 1 | 32 |
| 349 | 41 | 6 | 11 | 0 | 58 |
| Zone 3 Total | 243 | 29 | 72 | 7 | 351 |

Table 50. (cont.)

| Zone 4 | | | | | | | | | | | |
|-------------|------------|-----------|--------------|-------------|-------|----------------------------|-------------------|------------------|---------------------|--------------------|--------------|
| Permit Area | Adult Male | Fawn Male | Adult Female | Fawn Female | Total | Permit Area | Adult Male | Fawn Male | Adult Female | Fawn Female | Total |
| 401 | 11 | 1 | 7 | 2 | 21 | 446 | 28 | 3 | 10 | 1 | 42 |
| 402 | 25 | 1 | 24 | 1 | 51 | 447 | 20 | 4 | 12 | 1 | 37 |
| 403 | 32 | 2 | 14 | 3 | 51 | 448 | 23 | 3 | 13 | 0 | 39 |
| 404 | 42 | 5 | 28 | 2 | 77 | 449 | 68 | 5 | 17 | 0 | 90 |
| 405 | 22 | 3 | 18 | 2 | 45 | 450 | 9 | 2 | 5 | 0 | 16 |
| 406 | 34 | 3 | 31 | 1 | 69 | 451 | 42 | 1 | 9 | 3 | 55 |
| 407 | 49 | 7 | 42 | 9 | 107 | 452 | 30 | 2 | 10 | 5 | 47 |
| 408 | 39 | 6 | 26 | 7 | 78 | 453 | 48 | 0 | 12 | 1 | 61 |
| 409 | 129 | 31 | 123 | 36 | 319 | 454 | 59 | 6 | 28 | 1 | 94 |
| 410 | 154 | 28 | 89 | 26 | 297 | 455 | 16 | 0 | 9 | 0 | 25 |
| 411 | 128 | 31 | 125 | 21 | 305 | 456 | 57 | 6 | 22 | 2 | 87 |
| 412 | 165 | 26 | 105 | 26 | 322 | 457 | 29 | 6 | 19 | 0 | 54 |
| 413 | 74 | 27 | 59 | 19 | 179 | 458 | 35 | 1 | 12 | 5 | 53 |
| 414 | 134 | 40 | 92 | 33 | 299 | 459 | 87 | 7 | 29 | 3 | 126 |
| 415 | 134 | 36 | 95 | 20 | 285 | 461 | 69 | 10 | 43 | 13 | 135 |
| 416 | 88 | 15 | 58 | 3 | 164 | 462 | 60 | 9 | 24 | 10 | 103 |
| 417 | 195 | 34 | 135 | 30 | 394 | 463 | 35 | 5 | 13 | 4 | 57 |
| 418 | 132 | 27 | 59 | 27 | 245 | 464 | 35 | 6 | 18 | 3 | 62 |
| 419 | 90 | 11 | 33 | 21 | 155 | 465 | 37 | 4 | 16 | 1 | 58 |
| 420 | 37 | 6 | 19 | 6 | 68 | 466 | 92 | 9 | 45 | 5 | 151 |
| 421 | 25 | 2 | 15 | 3 | 45 | 467 | 47 | 2 | 31 | 4 | 84 |
| 422 | 39 | 9 | 15 | 5 | 68 | Zone 4 Total | 3,223 | 500 | 1,831 | 396 | 5,950 |
| 423 | 33 | 4 | 12 | 2 | 51 | Special Hunts | | | | | |
| 424 | 42 | 6 | 22 | 5 | 75 | Permit Area | Adult Male | Fawn Male | Adult Female | Fawn Female | Total |
| 425 | 12 | 2 | 4 | 0 | 18 | 901 | 0 | 1 | 0 | 0 | 1 |
| 426 | 64 | 9 | 31 | 1 | 105 | 902 | 7 | 1 | 0 | 0 | 8 |
| 427 | 26 | 4 | 8 | 0 | 38 | 904 | 1 | 0 | 0 | 0 | 1 |
| 428 | 59 | 6 | 30 | 5 | 100 | 905 | 1 | 0 | 0 | 0 | 1 |
| 429 | 37 | 2 | 12 | 6 | 57 | 906 | 0 | 0 | 1 | 0 | 1 |
| 431 | 30 | 2 | 9 | 0 | 41 | 909 | 0 | 1 | 0 | 0 | 1 |
| 433 | 53 | 9 | 35 | 3 | 100 | 910 | 3 | 0 | 2 | 1 | 6 |
| 435 | 35 | 5 | 9 | 4 | 53 | 911 | 0 | 1 | 1 | 0 | 2 |
| 440 | 12 | 1 | 6 | 2 | 21 | 919 | 4 | 1 | 3 | 0 | 8 |
| 442 | 70 | 7 | 28 | 0 | 105 | Special Hunts Total | 16 | 5 | 7 | 1 | 29 |
| 443 | 46 | 1 | 16 | 3 | 66 | GRAND TOTAL | | | | | |
| | | | | | | 6,454 | 988 | 3,675 | 770 | 11,887 | |

Table 51. Black bear registered harvest and hunter success, 1994 - 2003.

| Quota Area | Harvest (success rate) | | | | | | | | | |
|------------|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
| 12 | 130(34%) | 229(49%) | 114(23%) | 163(34%) | 170(30%) | 142(24%) | 186(32%) | 263(44%) | 104 (22%) | 174 (35%) |
| 13 | 108(34%) | 258(59%) | 96(22%) | 125(35%) | 216(31%) | 134(17%) | 211(26%) | 241(31%) | 116 (19%) | 185 (31%) |
| 22 | 33(16%) | 29(14%) | 5(2%) | 21(16%) | 8(6%) | 10(8%) | 4(3%) | 6 (7%) | 7 (8%) | 3 (4%) |
| 24 | 176(26%) | 288(32%) | 93(10%) | 251(29%) | 274(26%) | 257(24%) | 168(15%) | 273(28%) | 101 (15%) | 163 (25%) |
| 25 | 199(27%) | 489(40%) | 149(12%) | 357(35%) | 419(27%) | 443(24%) | 387(19%) | 584(34%) | 328 (23%) | 510 (34%) |
| 26 | 260(30%) | 513(59%) | 131(15%) | 311(38%) | 373(38%) | 371(32%) | 284(23%) | 397(32%) | 171 (17%) | 303 (29%) |
| 31 | 260(27%) | 636(47%) | 188(13%) | 402(38%) | 544(28%) | 483(23%) | 413(19%) | 697(34%) | 301 (17%) | 436 (25%) |
| 41 | 92(31%) | 148(50%) | 38(13%) | 88(32%) | 120(25%) | 92(14%) | 171(34%) | 201(40%) | 51 (14%) | 100 (29%) |
| 44 | 294(24%) | 643(43%) | 231(16%) | 357(24%) | 563(25%) | 435(18%) | 556(22%) | 553(23%) | 183 (9%) | 444 (26%) |
| 45 | 91(14%) | 173(24%) | 106(13%) | 143(18%) | 170(15%) | 153(10%) | 150(9%) | 178(13%) | 36 (4%) | 143 (13%) |
| 51 | 432(23%) | 872(37%) | 431(18%) | 605(25%) | 812(19%) | 739(18%) | 795(19%) | 895(24%) | 300 (9%) | 667 (21%) |
| No Quota | 254(17%) | 678(35%) | 292(16%) | 389(22%) | 441(25%) | 361(20%) | 573(25%) | 648(23%) | 217 (10%) | 470 (21%) |
| Total | 2,329 (26%) | 4,956 (43%) | 1,874 (16%) | 3,212 (31%) | 4,110 (28%) | 3,620 (23%) | 3,898 (23%) | 4,936 (27%) | 1,915 (13%) | 3,598 (25%) |

Table 52. Minnesota bear permits, licenses, hunters, harvests, and success rates during 1992-2003.

| | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 |
|--|--------|--------|--------|-----------------|-----------------|--------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Permit applications | 26,428 | 27,365 | 30,127 | 29,922 | 30,405 | 27,353 | 30,245 | 29,384 | 29,275 | 26,824 | 21,886 | 16,431 |
| Permits available | 7,920 | 8,630 | 9,400 | 11,950 | 12,030 | 11,370 | 18,210 | 20,840 | 20,710 | 20,710 | 20,610 | 20,110 |
| Licenses purchased: | | | | | | | | | | | | |
| Quota area | 6,845 | 7,528 | 8,125 | 10,304 | 10,592 | 9,655 | 14,941 | 16,563 | 17,021 | 13,867 | 12,559 | 12,387 |
| No-quota area | 1,640 | 1,696 | 1,701 | 2,144 | 1,822 | 1,785 | 1,796 | 1,792 | 2,283 | 2,643 | 2,080 | 2,022 |
| | | | | | | | | | | | | |
| % Permit-holders buying license ^a | 86.4 | 87.2 | 86.4 | 86.2 | 88.0 | 84.9 | 82.0 ^a | 79.5 ^a | 82.2 ^a | 67.0 ^a | 60.9 ^a | 61.6 ^a |
| Estimated number of hunters ^b | 7,900 | 8,600 | 9,100 | 11,600 | 11,500 | 10,300 | 14,500 | 15,900 | 16,800 | 15,500 | 13,700 | 13,500 |
| Harvest | 3,175 | 3,003 | 2,329 | 4,956 | 1,874 | 3,212 | 4,110 | 3,620 | 3,898 | 4,936 | 1,915 | 3,598 |
| % Success rate ^c | 40 | 35 | 26 | 43 ^c | 16 ^d | 31 | 28 | 23 | 23 | 29 ^c | 14 ^c | 26 ^c |

^a Licenses bought / permits available. The low rate in later years was due to undersubscription of permits in some areas. Based on just the number of permit-holders (rather than the number of permits available), 84.8% (1998), 82.7% (1999), 83.9% (2000), 69.8% (2001), 66.3 % (2002), and 65.7 % (2003) of hunters that were drawn bought licenses in these years.

^b Number of licensed hunters x percent of license-holders hunting. Percent hunting based on data from bear hunter surveys in 1981-91 and 1998 (86.8%) and 2001 (93.9%). Decline in percent hunting follows decline in percent of permit-holders buying a license.

^c Highest hunting success ever, due to poor natural food.

^d Lowest hunting success since initiation of the permit system, due to exceptionally abundant food.

^e Success rates in 2001 - 2003 were calculated using the number of successful hunters/total hunters, rather than the total number of bears killed/total hunters, because hunters could take 2 bears (2001 statewide, 4936 bears taken by 4456 successful hunters; in the quota area, 3859 hunters were successful; 2002: statewide 1915 bears were taken by 1900 successful hunters; all 15 second bears taken in the no-quota area; 2003: statewide, 3598 bears taken by 3556 successful hunters; all 42 second bears taken in the no-quota area).

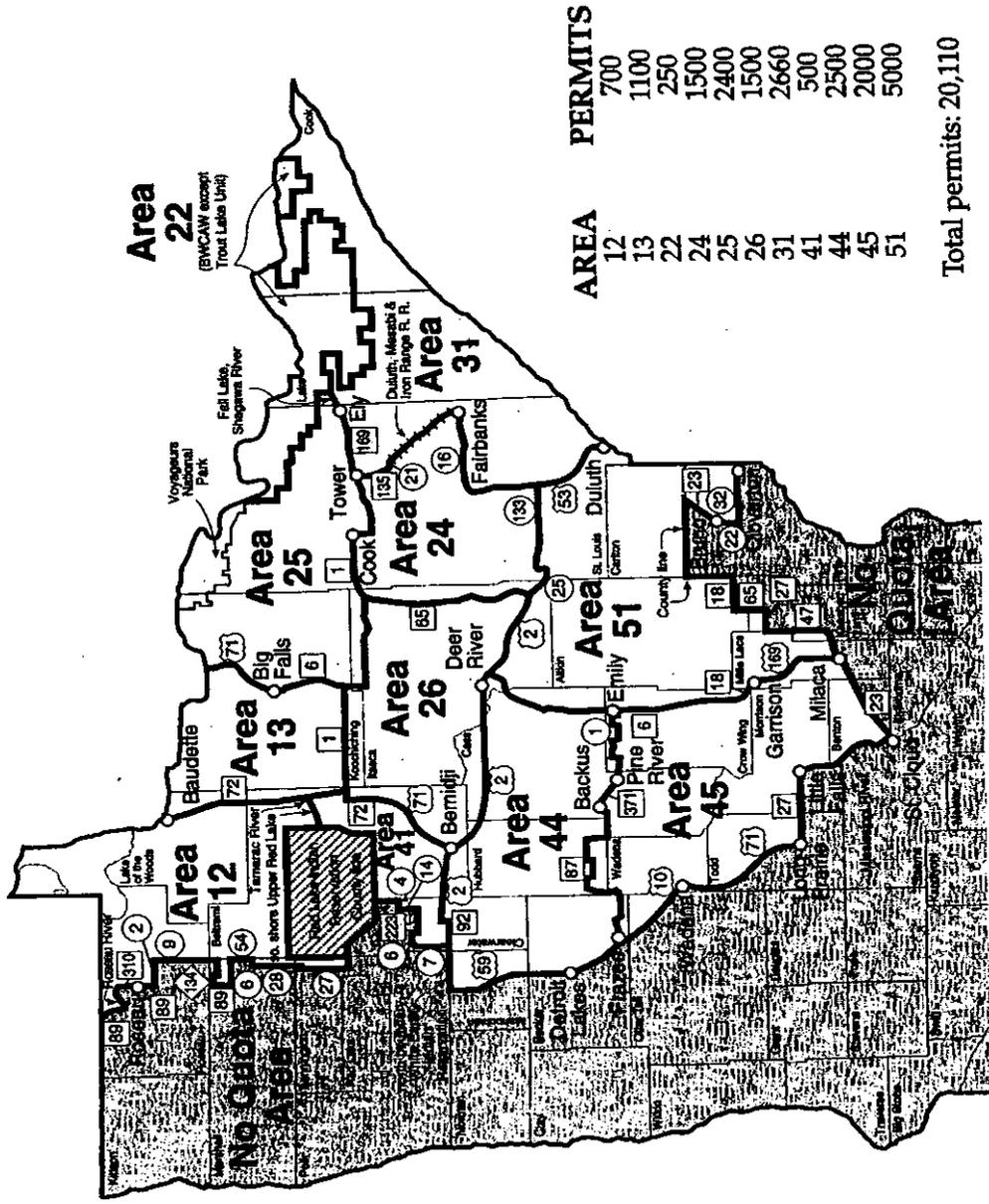


Figure 60. Black bear permit areas, 2003.

Table 53. Moose hunt quota and harvest statistics, 1987-2003.

| Year | Area | Number of 2, 3, or 4-person licenses issued | Number of 2, 3, or 4-person license applications | Chances for permit | Harvest | Party success (%) | Sex of Moose | |
|------|------|---|--|--------------------|-----------|-------------------|--------------|-----------|
| | | | | | | | Male | Female |
| 1987 | NW | 772 | 14,234 | 1:11 | 727 | 94 | 505 (69%) | 222 (31%) |
| | NE | 528 | | | | | 292 (67%) | 144 (33%) |
| 1989 | NW | 449 | 15,381 | 1:15 | 438 | 98 | 291 (66%) | 147 (34%) |
| | NE | 545 | | | | | 285 (64%) | 159 (36%) |
| 1991 | NW | 365 | 5,665 | 1:16 | 359 | 98 | 258 (72%) | 101 (28%) |
| | NE | 0 | | | | | - | - |
| 1993 | NW | 446 | 9,925 | 1:13 | 419 | 94 | 317 (76%) | 102 (24%) |
| | NE | 315 | | | | | 200 (76%) | 64 (24%) |
| 1994 | NW | 262 | 11,351 | 1:25 | 245 | 93 | 166 (65%) | 77 (32%) |
| | NE | 189 | | | | | 115 (74%) | 40 (26%) |
| 1995 | NW | 191 | 10,753 | 1:28 | 172 | 90 | 112 (65%) | 60 (35%) |
| | NE | 188 | | | | | 129 (83%) | 27 (17%) |
| 1996 | NW | 39 | 6,550 | 1:27 | 38 | 97 | 31 (82%) | 7 (18%) |
| | NE | 207 | | | | | 123 (79%) | 33 (21%) |
| 1997 | NW | 0 | 3,958 | 1:20 | 152 | 77 | - | - |
| | NE | 198 | | | | | 124 (82%) | 28 (28%) |
| 1998 | NW | 0 | 4,157 | 1:23 | 125 | 69 | - | - |
| | NE | 182 | | | | | 90 (72%) | 36 (28%) |
| 1999 | NW | 0 | 3,919 | 1:21 | 136 | 72 | - | - |
| | NE | 189 | | | | | 101 (74%) | 35 (26%) |
| 2000 | NW | Cancelled | Cancelled | Cancelled | Cancelled | Cancelled | Cancelled | Cancelled |
| | NE | Cancelled | | | | | Cancelled | |
| 2001 | NW | 0 | 3,164 | 1:18 | 125 | 69 | - | - |
| | NE | 176 | | | | | 108 (86%) | 17 (14%) |
| 2002 | NW | 0 | 4,327 | 1:21 | 141 | 68 | - | - |
| | NE | 208 | | | | | 118 (84%) | 23 (16%) |
| 2003 | NW | 0 | 5,204 | 1:23 | 144 | 64 | - | - |
| | NE | 224 | | | | | 127 (88%) | 17 (12%) |

TRAPPING HARVEST STATISTICS
Division of Wildlife
500 Lafayette Road, Box 7
Saint Paul, MN 55155-4007
(651) 296-3344

Table 54. Trapper response to mail surveys, 1979-80 through 2003-04.

| Year | Number mailed | Number not delivered | Delivered questionnaires completed and returned | |
|---------|---------------|----------------------|---|---------|
| | | | Number | Percent |
| 1979-80 | 1,011 | 29 | 888 | 90.4 |
| 1980-81 | 1,345 | 110 | 1,072 | 86.8 |
| 1981-82 | 1,345 | 36 | 1,167 | 89.2 |
| 1982-83 | 925 | 28 | 794 | 88.5 |
| 1983-84 | 770 | 10 | 663 | 87.2 |
| 1984-85 | 556 | 9 | 495 | 90.5 |
| 1985-86 | 581 | 13 | 506 | 89.1 |
| 1986-87 | 582 | 8 | 514 | 89.5 |
| 1987-88 | 721 | 11 | 607 | 85.5 |
| 1988-89 | 852 | 25 | 727 | 87.9 |
| 1989-90 | 3,302 | 120 | 2,804 | 88.1 |
| 1990-91 | 2,294 | 102 | 1,875 | 85.5 |
| 1991-92 | 2,643 | 149 | 2,062 | 82.7 |
| 1992-93 | 2,080 | 76 | 1,681 | 83.9 |
| 1993-94 | 2,828 | 100 | 2,194 | 80.4 |
| 1994-95 | 2,382 | 76 | 1,876 | 81.5 |
| 1995-96 | 3,244 | 118 | 2,467 | 80.3 |
| 1996-97 | 4,071 | 132 | 3,017 | 76.6 |
| 1997-98 | 3,500 | 96 | 2,629 | 77.2 |
| 1998-99 | 3,900 | 117 | 2,878 | 76.4 |
| 1999-00 | 3,110 | 74 | 2,313 | 76.2 |
| 2000-01 | 5,262 | 146 | 3,941 | 77.0 |
| 2001-02 | 5,482 | 127 | 4,132 | 78.6 |
| 2002-03 | 5,655 | 210 | 4,148 | 76.0 |
| 2003-04 | 5,812 | 197 | 4,234 | 75.4 |

Table 55. Use of trapper licenses, 1991-92 through 2003-04.

| | | Return from mail survey | Projections from license sales |
|---------|--------------|----------------------------|-----------------------------------|
| 1991-92 | Trapped | 1,639 (79.5%) | 4,150 |
| | Did not trap | <u>423 (20.5%)</u> | <u>1,070</u> |
| | | 2,062 (100.0%) | 5,220 ^a |
| 1992-93 | Trapped | 1,438 (85.5%) | 4,927 |
| | Did not trap | <u>243 (14.5%)</u> | <u>836</u> |
| | | 1,681 (100.0%) | 5,763 ^a |
| 1993-94 | Trapped | 1,904 (85.5%) | 4,862 |
| | Did not trap | <u>290 (13.2%)</u> | <u>739</u> |
| | | 2,194 (100.0%) | 5,601 ^a |
| 1994-95 | Trapped | 1,647 (87.8%) | 6,054 |
| | Did not trap | <u>228 (12.2%)</u> | <u>841</u> |
| | | 1,875 (100.0%) | 6,895 ^a |
| 1995-96 | Trapped | 2,053 (83.2%) | 4,684 |
| | Did not trap | <u>414 (16.8%)</u> | <u>946</u> |
| | | 2,467 (100.0%) | 5,630 ^a |
| 1996-97 | Trapped | 2,505 (84.8%) | 5,660 |
| | Did not trap | <u>450 (15.2%)</u> | <u>1,015</u> |
| | | 2,955 (100.0%) | 6,675 ^a |
| 1997-98 | Trapped | 2,310 (88.6%) | 6,198 |
| | Did not trap | <u>296 (11.4%)</u> | <u>798</u> |
| | | 2606 (100.0%) | 6,996 ^a |
| 1998-99 | Trapped | 2,398 (88.6%) | 5,541 |
| | Did not trap | <u>480 (16.7%)</u> | <u>1,111</u> |
| | | 2,878 (100.0%) | 6,652 ^a |
| 1999-00 | Trapped | 1,927 (83.5%) | 4,122 |
| | Did not trap | <u>381 (16.5%)</u> | <u>814</u> |
| | | 2,308 (100.0%) | 4,936 ^a |
| 2000-01 | Trapped | 2,897 (75.9%) | 4,051 |
| | Did not trap | <u>920 (24.1%)</u> | <u>1,286</u> |
| | | 3,817 (100.0%) | 5,337 ^a |
| 2001-02 | Trapped | 3,332 (81.5%) | 4,510 |
| | Did not trap | <u>754 (18.5%)</u> | <u>1,024</u> |
| | | 4,086 (100.0%) | 5,534 ^a |
| 2002-03 | Trapped | 3,344 (80.6%) | 4,615 |
| | Did not trap | <u>804 (19.4%)</u> | <u>1,111</u> |
| | | 4,148 (100.0%) | 5,726 ^a |
| 2003-04 | Trapped | 3,412 (81.1%) | 4,737 |
| | Did not trap | <u>793 (18.9%)</u> | <u>1,104</u> |
| | | 4,205 (100.0%) | 5,841 ^a |

^a excludes duplicates.

Table 56. Estimated number of trappers of various furbearers, 1989-90 through 2003-04.

| Estimated number of trappers (thousands) | | | | | | | | | | | | | | | |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 | 1999-00 | 2000-01 | 2001-02 | 2002-03 | 2003-04 |
| Muskrat | 4 | 2 | 2 | 3 | 3 | 4 | 3 | 4 | 4 | 3 | 2 | 2 | 2 | 2 | 2 |
| Mink | 5 | 3 | 2 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 |
| Short-tailed weasel | <1 | <1 | <1 | <1 | <1 | 1 | <1 | <1 | 1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Long-tailed weasel | 1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Raccoon (Sept 03-Feb 04) | 4 | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 |
| Raccoon (Mar 03-Aug 03) ^a | | | | | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Striped skunk | 2 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Eastern spotted skunk | <1 | <1 | <1 | <1 | <1 | <1 | <1 | Closed |
| Badger | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Opossum | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | <1 | <1 | 1 | 1 | 1 |
| Red fox (Sept 03-Feb 04) | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |
| Red fox (Mar 03-Aug 03) ^a | | | | | | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Gray fox | 1 | <1 | <1 | <1 | <1 | <1 | <1 | n.a. | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Coyote | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | <1 | 1 | 1 | 1 |
| Beaver (Oct 03- Feb 04) | 3 | 2 | 2 | 2 | 2 | 3 | 2 | 2 | 3 | 3 | 2 | 2 | 2 | 2 | 2 |
| Beaver (Mar 03- Apr 03) | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 |

^a Raccoon and red fox season changed to year round beginning May, 1994.

Table 57. Estimated take per trapper of various furbearers, 1989-90 through 2003-2004.

| | Estimated take per successful trapper reporting that species | | | | | | | | | | | | | | |
|--------------------------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1989-90 | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 | 1999-00 | 2000-01 | 2001-02 | 2002-03 | 2003-04 |
| Muskrat | 27 | 24 | 20 | 36 | 64 | 90 | 70 | 55 | 58 | 42 | 46 | 42 | 42 | 35 | 33 |
| Mink | 9 | 10 | 8 | 12 | 12 | 12 | 11 | 11 | 11 | 13 | 14 | 12 | 14 | 10 | 9 |
| Short-tailed weasel | 5 | 3 | 4 | 5 | 6 | 12 | 10 | 9 | 10 | 7 | 5 | 8 | 10 | 7 | 7 |
| Long-tailed weasel | 5 | 3 | 5 | 4 | 4 | 6 | 5 | 5 | 5 | 5 | 5 | 5 | 7 | 4 | 5 |
| Raccoon (Sept 03-Feb 04) | 12 | 16 | 14 | 16 | 5 | 20 | 23 | 23 | 24 | 23 | 20 | 20 | 27 | 25 | 22 |
| Raccoon (Mar 03-Aug 03) ^a | | | | | | 15 | 15 | 13 | 14 | 15 | 14 | 11 | 19 | 12 | 15 |
| Striped skunk | 10 | 12 | 9 | 8 | 9 | 8 | 8 | 10 | 10 | 9 | 8 | 8 | 8 | 8 | 8 |
| Eastern spotted skunk | 5 | 7 | 3 | 2 | 6 | 4 | 5 | Closed |
| Badger | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Opossum | 9 | 11 | 9 | 10 | 8 | 9 | 9 | 9 | 9 | 11 | 13 | 11 | 8 | 11 | 12 |
| Red fox (Sept 03-Feb 04) | 10 | 18 | 14 | 11 | 11 | 11 | 9 | 7 | 7 | 5 | 6 | 6 | 6 | 6 | 5 |
| Red fox (Mar 03-Aug 03) ^a | | | | | | 9 | 5 | 4 | 4 | 3 | 4 | 4 | 5 | 5 | 6 |
| Gray fox | 3 | 3 | 2 | 4 | 3 | 2 | 2 | n.a. | 3 | 3 | 2 | 2 | 2 | 2 | 2 |
| Coyote | 4 | 3 | 4 | 5 | 5 | 4 | 5 | 4 | 3 | 3 | 4 | 4 | 4 | 4 | 5 |
| Beaver (Oct 03-Feb 04) | 15 | 13 | 15 | 13 | 16 | 18 | 14 | 16 | 16 | 16 | 16 | 15 | 18 | 13 | 12 |
| Beaver (Mar 03 - Apr 03) | 20 | 19 | 27 | 29 | 29 | 37 | 29 | 31 | 32 | 29 | 27 | 26 | 31 | 26 | 21 |

^a Raccoon and red fox season changed to year round beginning May, 1994.

Table 58. Minnesota trapper license sales and estimated annual harvest, 1990-91 through 2003-2004^a

| | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 | 1999-00 | 2000-01 | 2001-02 | 2002-03 | 2003-04 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Trapper license sales ^b | 6,163 | 5,220 | 5,763 | 5,601 | 6,895 | 5,630 | 6,675 | 6,996 | 6,652 | 4,936 | 5,337 | 5,534 | 5,725 | 5,841 |
| Estimated harvest ^c (thousands) | | | | | | | | | | | | | | |
| Muskrat | 55 | 45 | 92 | 202 | 355 | 195 | 202 | 194 | 131 | 97 | 86 | 101 | 75 | 69 |
| Mink | 25 | 21 | 32 | 33 | 40 | 26 | 35 | 34 | 36 | 27 | 23 | 29 | 20 | 17 |
| Short-tailed weasel | 1 | 1 | 1 | 2 | 6 | 4 | 4 | 4 | 2 | 2 | 3 | 4 | 3 | 4 |
| Long-tailed weasel | 1 | 1 | 1 | 1 | 3 | 2 | 2 | 2 | 2 | 2 | 1 | 2 | 1 | 2 |
| Raccoon (Sept 03- Feb 04) | 34 | 31 | 34 | 56 | 58 | 53 | 69 | 66 | 64 | 37 | 32 | 60 | 61 | 54 |
| Raccoon (Mar 03-Aug 03) ^f | | | | | 1 | 5 | 5 | 5 | 7 | 4 | 4 | 6 | 4 | 5 |
| Striped skunk | 15 | 10 | 7 | 9 | 9 | 8 | 11 | 11 | 9 | 5 | 5 | 7 | 8 | 8 |
| Eastern spotted skunk ^g | <1 | <1 | <1 | <1 | <1 | <1 | Closed |
| Badger | 1 | 1 | 1 | 1 | 1 | <1 | 1 | 1 | <1 | <1 | <1 | <1 | <1 | 1 |
| Opossum | 6 | 5 | 6 | 5 | 5 | 6 | 6 | 6 | 7 | 6 | 5 | 5 | 8 | 11 |
| Red fox (Sept 03- Feb 04) | 33 | 25 | 23 | 22 | 24 | 14 | 13 | 12 | 6 | 7 | 6 | 7 | 8 | 7 |
| Red fox (Mar 03-Aug 03) ^f | | | | | 1 | 1 | 1 | 1 | <1 | <1 | <1 | <1 | 1 | 1 |
| Gray fox | 1 | 1 | 1 | 1 | 1 | 1 | n.a. | 1 | 1 | 1 | <1 | 1 | 1 | 1 |
| Coyote | 3 | 3 | 4 | 4 | 5 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 4 | 4 |
| Beaver (Oct 03- Feb 04) | 24 | 25 | 22 | 29 | 49 | 25 | 38 | 36 | 39 | 31 | 25 | 36 | 24 | 23 |
| Beaver (Mar 03-Apr 03) | 20 | 26 | 34 | 32 | 64 | 41 | 48 | 47 | 55 | 36 | 37 | 42 | 34 | 26 |
| Registered harvest | | | | | | | | | | | | | | |
| Otter | 88 | 855 | 1,368 | 1,459 | 2,445 | 1,435 | 2,219 | 2,145 | 1,946 | 1,635 | 1,578 | 2,301 | 2,145 | 2,766 |
| Lynx ^h | Closed |
| Bobcat ^e | 84 | 106 | 168 | 201 | 238 | 134 | 223 | 359 | 103 | 206 | 231 | 250 | 544 | 483 |
| Fisher | 746 | 528 | 778 | 1,159 | 1,771 | 942 | 1,773 | 2,761 | 2,695 | 1,725 | 1,674 | 2,119 | 2,660 | 2,517 |
| Marten | 1,349 | 656 | 1,602 | 1,438 | 1,527 | 1,500 | 1,625 | 2,261 | 2,299 | 2,423 | 1,629 | 1,928 | 2,839 | 3,214 |

^a Includes data for all seasons from October through April of years indicated.

^b Separate licenses were issued for juveniles (13-17 years old) and adults (18 and older), beginning in 1982. As of March 3, 2004 5,841 trapping licenses were sold in 2003 650 (11.1%) were juvenile licenses and 5,191 (88.9%) were adult licenses. Duplicate licenses excluded.

^c Based upon trappers' responses to mail surveys.

^d 1 is any number which rounds to 1. <1 is any number which is <0.5.

^e Registered harvest for bobcat includes animals taken by hunting.

^f Raccoon and red fox seasons changed to year round beginning May 1994.

^g Lynx (1984) and Eastern spotted skunk (1996) listed as Special Concern and threatened species (respectively) and are fully protected.

Table 59. Average price per pelt paid to hunters and trappers in Minnesota, 1990-91 through 2003-04.

| Species | Average pelt prices paid hunters and trappers in Minnesota (dollars) | | | | | | | | | | | | | |
|----------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | 1990-91 | 1991-92 | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 | 1999-00 | 2000-01 | 2001-02 | 2002-03 | 2003-04 |
| Muskrat | 0.75 | 1.55 | 1.35 | 1.35 | 1.61 | 1.53 | 3.49 | 2.24 | 1.11 | 1.57 | 1.83 | 2.32 | 2.11 | 2.05 |
| Mink (male) | 23.06 | 27.30 | 24.74 | 21.89 | 14.90 | 11.75 | 20.82 | 13.52 | 9.83 | 11.61 | 11.15 | 9.34 | 9.55 | 11.41 |
| Mink (female) | 14.73 | 17.36 | 15.02 | 12.18 | 11.43 | 8.56 | 13.71 | 9.65 | 6.11 | 8.22 | 7.70 | 6.76 | 6.52 | 7.23 |
| S.T. Weasel | 1.55 | 0.77 | 1.31 | 1.72 | 1.73 | 1.84 | 2.32 | 2.33 | 1.72 | 2.16 | 2.30 | 2.41 | 2.63 | 2.53 |
| L.T. Weasel | 0.58 | 1.21 | 1.06 | 1.05 | 2.05 | 1.24 | 3.33 | 2.67 | 2.05 | 2.34 | 1.80 | 2.98 | 1.94 | 3.34 |
| Raccoon | 4.19 | 8.57 | 7.29 | 8.26 | 9.02 | 9.40 | 15.16 | 13.92 | 7.25 | 5.09 | 8.86 | 9.53 | 10.33 | 11.45 |
| Striped Skunk | 1.84 | 1.47 | 2.69 | 3.70 | 3.52 | 3.21 | 2.11 | 3.18 | 4.72 | 4.40 | 4.79 | 3.91 | 5.81 | 4.66 |
| Badger | 4.33 | 3.51 | 4.20 | 4.62 | 6.12 | 6.33 | 8.49 | 6.53 | 6.30 | 7.30 | 10.15 | 9.39 | 13.18 | 14.23 |
| Opossum | 3.51 | 0.96 | 0.78 | 0.89 | 0.98 | 0.97 | 1.04 | 1.10 | 0.58 | 0.96 | 0.97 | 1.19 | 1.22 | 1.23 |
| Red Fox | 7.17 | 10.81 | 8.88 | 10.59 | 13.42 | 14.21 | 14.81 | 11.23 | 8.04 | 11.82 | 14.45 | 17.07 | 22.08 | 20.02 |
| Gray Fox | 5.16 | 5.22 | 6.73 | 6.55 | 9.69 | 7.49 | 9.00 | 7.69 | 5.63 | 7.06 | 7.52 | 8.36 | 9.05 | 13.64 |
| Coyote | 8.95 | 14.85 | 15.55 | 14.68 | 13.55 | 10.89 | 12.25 | 10.12 | 5.57 | 9.42 | 12.40 | 13.37 | 16.12 | 18.37 |
| Lynx | -----No Open Season----- | | | | | | | | | | | | | |
| Bobcat | 42.50 | 37.44 | 28.18 | 43.42 | 36.36 | 31.81 | 32.82 | 30.39 | 27.66 | 24.23 | 33.09 | 46.00 | 71.54 | 95.90 |
| Beaver (fall-winter) | 9.44 | 9.00 | 7.10 | 11.24 | 13.80 | 12.56 | 19.24 | 16.48 | 11.40 | 11.51 | 14.66 | 12.74 | 10.05 | 12.57 |
| Beaver (spring) | 9.66 | 9.25 | 7.89 | 9.41 | 14.48 | 10.96 | 19.14 | 17.39 | 14.06 | 11.02 | 12.80 | 12.47 | 9.99 | 11.09 |
| Otter | 24.21 | 24.74 | 29.90 | 43.14 | 47.50 | 38.76 | 38.75 | 39.81 | 34.03 | 41.41 | 50.52 | 46.19 | 61.16 | 85.33 |
| Fisher (male) | 34.85 | 21.46 | 15.73 | 14.17 | 19.06 | 16.17 | 25.48 | 31.09 | 18.92 | 19.45 | 20.14 | 23.18 | 26.70 | 27.15 |
| Fisher (female) | 46.25 | 47.93 | 28.79 | 28.40 | 29.93 | 24.90 | 34.47 | 33.65 | 21.76 | 19.91 | 19.01 | 22.86 | 25.44 | 25.71 |
| Marten (male) | 43.89 | 39.59 | 27.87 | 35.86 | 34.07 | 28.30 | 34.47 | 27.82 | 19.70 | 24.89 | 27.56 | 24.10 | 28.00 | 30.09 |
| Marten (female) | 40.84 | 27.24 | 24.96 | 29.58 | 28.34 | 21.42 | 29.26 | 21.79 | 16.12 | 21.27 | 21.25 | 22.52 | 27.30 | 26.70 |

REGISTERED FURBEARER HARVEST STATISTICS
Forest Wildlife Populations and Research Group
1201 E. Hwy 2
Grand Rapids, MN 55744
(218) 327-4432

Table 60. Registered furbearer harvests and total permits issued, 1985-2003^a.

| Year | Bobcat | | Fisher | | Marten | | Otter | |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Permits | Harvest | Permits | Harvest | Permits | Harvest | Permits | Harvest |
| 1985 | -- | 119 | -- | 678 | 746 | 430 | -- | 559 |
| 1986 | -- | 160 | 3,302 | 1,607 | 2,171 | 798 | 3,198 | 777 |
| 1987 | -- | 214 | 4,952 | 1,642 | 3,025 | 1,363 | 4,708 | 1,386 |
| 1988 | -- | 140 | 4,419 | 1,025 | 3,369 | 2,072 | 4,070 | 922 |
| 1989 | -- | 129 | 3,712 | 1,243 | 3,074 | 2,119 | 3,549 | 1,294 |
| 1990 | -- | 84 | 2,385 | 746 | 2,090 | 1,349 | 2,199 | 888 |
| 1991 ^b | -- | 106 | 2,360 | 528 | 2,020 | 686 | 2,282 | 855 |
| 1992 ^b | -- | 168 | 2,420 | 778 | 2,050 | 1,602 | 3,440 | 1,368 |
| 1993 ^b | -- | 201 | 2,299 | 1,159 | 1,925 | 1,438 | 2,254 | 1,459 |
| 1994 ^b | -- | 238 | 2,186 | 1,771 | 2,477 | 1,527 | 2,964 | 2,445 |
| 1995 ^b | -- | 134 | 2,520 | 942 | 2,268 | 1,500 | 2,579 | 1,435 |
| 1996 ^b | -- | 223 | 1,557 | 1,773 | 1,392 | 1,625 | 1,623 | 2,219 |
| 1997 ^b | -- | 359 | 2,517 | 2,761 | 2,517 | 2,261 | 2,543 | 2,145 |
| 1998 ^b | -- | 103 | 2,808 | 2,695 | 2,808 | 2,299 | 2,749 | 1,946 |
| 1999 ^b | -- | 206 | 1,984 | 1,725 | 1,984 | 2,423 | 1,918 | 1,635 |
| 2000 ^b | -- | 231 | 3,226 | 1,674 | 3,226 | 1,629 | 3,116 | 1,578 |
| 2001 ^c | -- | 250 | -- | 2,119 | -- | 1,928 | -- | 2,301 |
| 2002 ^c | -- | 544 | -- | 2,660 | -- | 2,839 | -- | 2,145 |
| 2003 | -- | 483 | -- | 2,517 | -- | 3,214 | -- | 2,766 |

^a Prior request tags and permits were required beginning in 1985 for marten and in 1986 for fisher and otter.

No possession tags or permits are required for bobcat.

^b Confiscation and 1854 Authority removed.

^c Prior request tags and permits were not required for fisher, marten, or otter starting in 2001-02.

BOBCAT 2003-2004

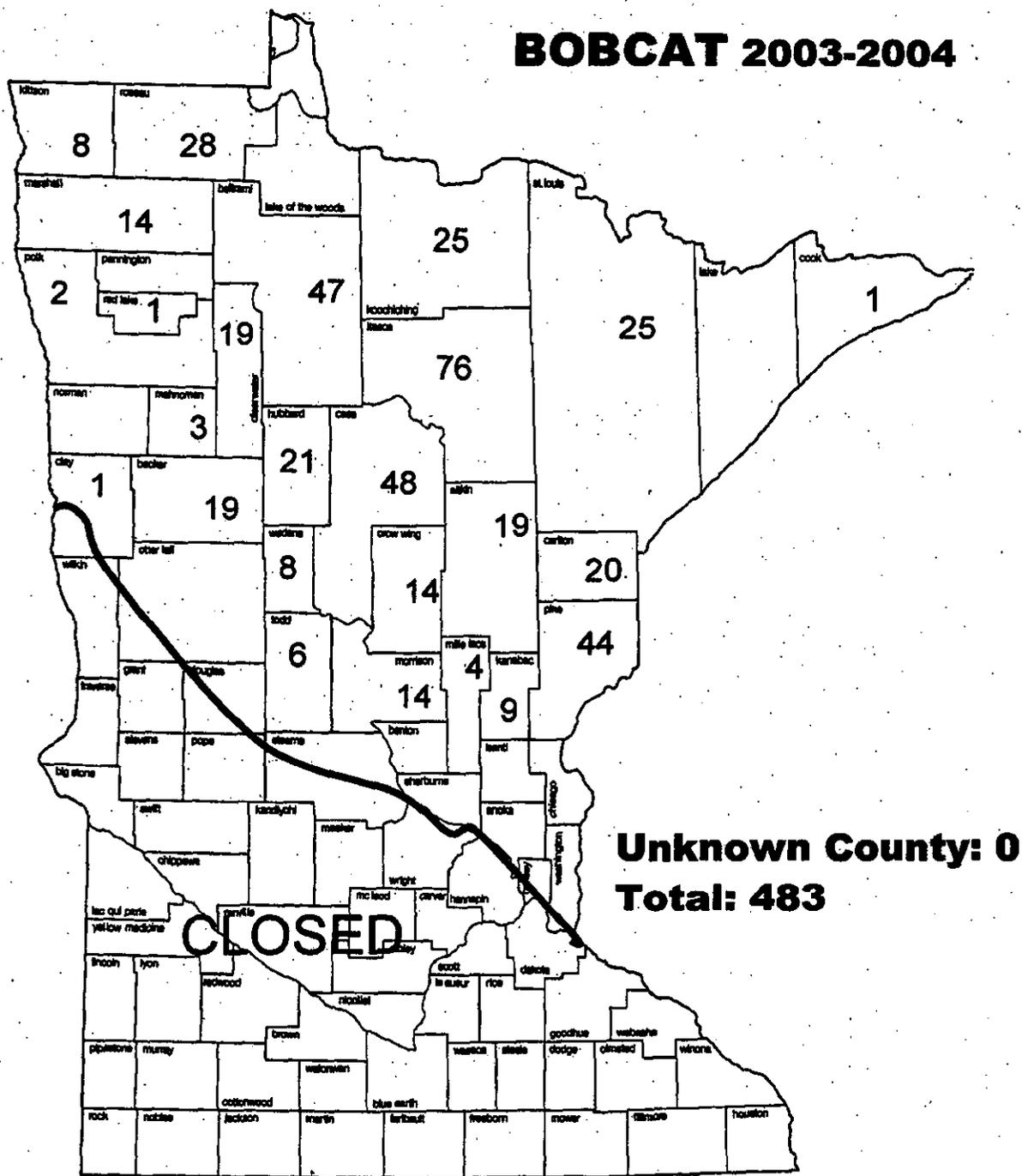


Figure 56. Bobcat harvest by county, 2003-2004.

Table 61. Time distribution of bobcat harvest by 5-day increments, 2003-2004 season.

| | Sex* | | | Total | % of Total | Cumulative % |
|--------------------|------|--------|---------|-------|------------|--------------|
| | Male | Female | Unknown | | | |
| Nov. 29 – Dec 3 | 44 | 47 | 0 | 91 | 18.8 | 18.8 |
| Dec. 4 – 8 | 31 | 48 | 1 | 80 | 16.6 | 35.4 |
| Dec. 9 - 13 | 41 | 32 | 1 | 74 | 15.3 | 50.7 |
| Dec. 14 - 18 | 20 | 25 | 1 | 46 | 9.5 | 60.2 |
| Dec. 19 - 23 | 33 | 42 | 0 | 75 | 15.5 | 75.8 |
| Dec. 24 - 28 | 21 | 22 | 0 | 43 | 8.9 | 84.7 |
| Dec. 29 – Jan. 4** | 35 | 27 | 0 | 62 | 12.8 | 97.5 |
| Unknown | 6 | 6 | 0 | 12 | 2.5 | 100.0 |
| Total | 231 | 249 | 3 | 483 | 100 | |

* Trapper/hunter reported sex ratios are NOT adjusted according to results from DNR carcass analyses

Table 62. Distribution of bobcat harvest* among takers, 1984-85 thru 2003-04.

| Number of Takers | Number Taken (%) | | | | | Total |
|------------------|------------------|-----------|----------|---------|---------|-------|
| | 1 | 2 | 3 | 4 | 5 | |
| 1984-85 | 116 (65.2) | 39 (21.9) | 13 (7.3) | 9 (5.1) | 1 (0.5) | 178 |
| 1985-86 | 70 (78.7) | 11 (12.4) | 6 (6.7) | 1 (1.1) | 1 (1.1) | 89 |
| 1986-87 | 92 (76.7) | 18 (15.0) | 9 (7.5) | 0 (0.0) | 1 (0.8) | 120 |
| 1987-88 | 104 (71.7) | 23 (15.9) | 10 (6.9) | 6 (4.1) | 2 (1.4) | 145 |
| 1988-89 | 88 (81.5) | 11 (10.2) | 7 (6.5) | 1 (0.9) | 1 (0.9) | 108 |
| 1989-90 | 56 (69.1) | 13 (16.0) | 5 (6.2) | 3 (3.7) | 4 (4.9) | 81 |
| 1990-91 | 47 (77.0) | 9 (14.7) | 1 (1.6) | 4 (6.5) | 0 (0.0) | 61 |
| 1991-92 | 42 (63.6) | 15 (22.7) | 4 (6.1) | 3 (4.5) | 2 (3.0) | 66 |
| 1992-93 | 69 (64) | 21 (20) | 9 (9) | 5 (5) | 2 (2) | 106 |
| 1993-94 | 90 (70) | 17 (13) | 13 (10) | 7 (5) | 2 (2) | 201 |
| 1994-95 | 103 (68) | 25 (17) | 12 (8) | 6 (4) | 5 (3) | 151 |
| 1995-96 | 67 (74) | 13 (14) | 5 (6) | 4 (4) | 2 (2) | 91 |
| 1996-97 | 115 (73) | 28 (18) | 85 (5) | 2 (1) | 4 (3) | 157 |
| 1997-98 | 129 (61) | 43 (20) | 17 (8) | 12 (6) | 9 (5) | 210 |
| 1998-99 | 59 (77) | 11 (14) | 2 (3) | 3 (4) | 1 (2) | 76 |
| 1999-00 | 113 (76) | 21 (14) | 10 (6) | 4 (3) | 1(1) | 149 |
| 2000-01 | 99(69) | 23 (16) | 7 (5) | 5 (4) | 9 (6) | 143 |
| 2001-02 | 101 (71) | 23 (16) | 12 (8) | 1 (1) | 5 (4) | 142 |
| 2002-03 | 185 (60) | 64 (21) | 33 (10) | 15 (5) | 12 (4) | 309 |
| 2003-04 | 171 (64) | 40 (15) | 25 (10) | 20 (7) | 11 (4) | 267 |

* Product of categories above may not equal total harvest due to some unknown name / license numbers

Table 63. Bobcat harvest by method of take, 1982-83 to 2003-2004.

| Year | Total Harvest ^a | Trapping | | | | Hunting | | | |
|---------|----------------------------|----------|------------|-----------------------|------------------------|---------|------------|-----------------------|------------------------|
| | | Harvest | % of Total | # Takers ^b | Ave. Take ^b | Harvest | % of Total | # Takers ^b | Ave. Take ^b |
| 1982-83 | 274 | 239 | 87 | 147 | 1.6 | 35 | 13 | 23 | 1.5 |
| 1983-84 | 208 | 168 | 81 | 118 | 1.4 | 40 | 19 | 32 | 1.3 |
| 1984-85 | 280 | 252 | 90 | 156 | 1.6 | 28 | 10 | 22 | 1.3 |
| 1985-86 | 119 | 83 | 70 | 62 | 1.3 | 36 | 30 | 27 | 1.3 |
| 1986-87 | 160 | 119 | 74 | 89 | 1.3 | 41 | 26 | 31 | 1.3 |
| 1987-88 | 214 | 177 | 83 | 118 | 1.5 | 37 | 17 | 26 | 1.4 |
| 1988-89 | 140 | 94 | 67 | 76 | 1.2 | 46 | 33 | 32 | 1.4 |
| 1989-90 | 129 | 90 | 70 | 49 | 1.8 | 39 | 31 | 28 | 1.4 |
| 1990-91 | 84 | 61 | 73 | 43 | 1.4 | 22 | 26 | 17 | 1.3 |
| 1991-92 | 106 | 59 | 56 | 31 | 1.9 | 43 | 41 | 33 | 1.3 |
| 1992-93 | 168 | 133 | 80 | 85 | 1.6 | 35 | 20 | 23 | 1.5 |
| 1993-94 | 201 | 147 | 73 | 88 | 1.7 | 54 | 27 | 41 | 1.3 |
| 1994-95 | 238 | 189 | 80 | 120 | 1.6 | 49 | 21 | 31 | 1.6 |
| 1995-96 | 134 | 73 | 55 | 53 | 1.4 | 61 | 46 | 38 | 1.6 |
| 1996-97 | 223 | 133 | 60 | 91 | 1.5 | 70 | 31 | 53 | 1.3 |
| 1997-98 | 359 | 313 | 87 | 176 | 1.8 | 44 | 13 | 34 | 1.3 |
| 1998-99 | 103 | 95 | 92 | 67 | 1.4 | 8 | 8 | 8 | 1 |
| 1999-00 | 206 | 155 | 75 | 114 | 1.4 | 51 | 25 | 36 | 1.4 |
| 2000-01 | 231 | 140 | 61 | 85 | 1.6 | 91 | 39 | 58 | 1.6 |
| 2001-02 | 250 | 208 | 83 | 116 | 1.8 | 42 | 17 | 27 | 1.3 |
| 2002-03 | 544 | 500 | 92 | 279 | 1.8 | 44 | 8 | 32 | 1.4 |
| 2003-04 | 483 | 415 | 86 | 230 | 1.8 | 68 | 14 | 40 | 1.7 |

^a Sum of trapping and hunting harvest may not be equal to total harvest due to incomplete method-of-take data.

^b Multiplying # takers and average take may not match total harvest due to some incomplete name/license #'s

Table 64. Comparison of bobcat harvest by county, 1993-94 through 2003-04.

| County | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 | 1999-00 | 2000-01 | 2001-02 | 2002-03 | 2003-04 |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Aitkin | 28 | 14 | 12 | 20 | 19 | 6 | 25 | 32 | 20 | 35 | 19 |
| Becker | 1 | 7 | 5 | 4 | 10 | 1 | 8 | 6 | 28 | 26 | 19 |
| Beltrami | 15 | 23 | 6 | 20 | 37 | 7 | 13 | 16 | 26 | 63 | 47 |
| Benton | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Carlton | 5 | 8 | 5 | 14 | 18 | 4 | 10 | 12 | 14 | 11 | 20 |
| Cass | 16 | 31 | 10 | 22 | 64 | 16 | 24 | 11 | 17 | 59 | 48 |
| Chisago | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Clearwater | 2 | 7 | 6 | 3 | 14 | 1 | 4 | 0 | 6 | 24 | 19 |
| Clay | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Cook | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Crow Wing | 3 | 8 | 5 | 5 | 8 | 15 | 21 | 13 | 4 | 20 | 15 |
| Hubbard | 2 | 4 | 2 | 4 | 19 | 1 | 7 | 4 | 10 | 31 | 21 |
| Isanti | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| Itasca | 39 | 51 | 20 | 51 | 45 | 10 | 23 | 40 | 33 | 74 | 76 |
| Kanabec | 7 | 3 | 1 | 6 | 13 | 3 | 4 | 11 | 8 | 10 | 9 |
| Kittson | 1 | 3 | 3 | 1 | 0 | 0 | 7 | 6 | 7 | 5 | 8 |
| Kooch | 3 | 6 | 1 | 23 | 14 | 2 | 8 | 11 | 12 | 23 | 25 |
| Lake | 1 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 |
| LOW | 0 | 2 | 0 | 2 | 0 | 2 | 2 | 3 | 0 | 6 | 4 |
| Mahnomen | - | - | 1 | 0 | 2 | 0 | 1 | 1 | 1 | 0 | 3 |
| Marshall | 6 | 4 | 2 | 5 | 28 | 4 | 10 | 2 | 4 | 24 | 14 |
| Mille Lacs | 1 | 5 | 3 | 0 | 0 | 0 | 1 | 2 | 0 | 10 | 4 |
| Morrison | 14 | 5 | 6 | 5 | 1 | 2 | 6 | 8 | 4 | 6 | 14 |
| Ottertail | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 0 |
| Pennington | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 1 | 1 | 1 | 0 |
| Pine | 29 | 26 | 23 | 20 | 23 | 12 | 15 | 21 | 23 | 49 | 44 |
| Polk | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 2 | 2 |
| Red Lake | - | - | - | - | - | - | - | 2 | 0 | 1 | 1 |
| Roseau | 5 | 9 | 1 | 5 | 15 | 3 | 7 | 12 | 18 | 22 | 28 |
| St. Louis | 10 | 15 | 7 | 7 | 14 | 10 | 5 | 9 | 7 | 30 | 25 |
| Todd | - | - | - | - | - | 2 | 1 | 0 | 1 | 3 | 6 |
| Wadena | 2 | 0 | 2 | 1 | 5 | 1 | 2 | 0 | 5 | 7 | 8 |
| Unknown | 8 | 7 | 8 | 2 | 4 | 0 | 0 | 4 | 0 | 0 | 0 |
| Total | 201 | 238 | 134 | 223 | 357 | 103 | 206 | 231 | 250 | 544 | 483 |

FISHER 2003-2004

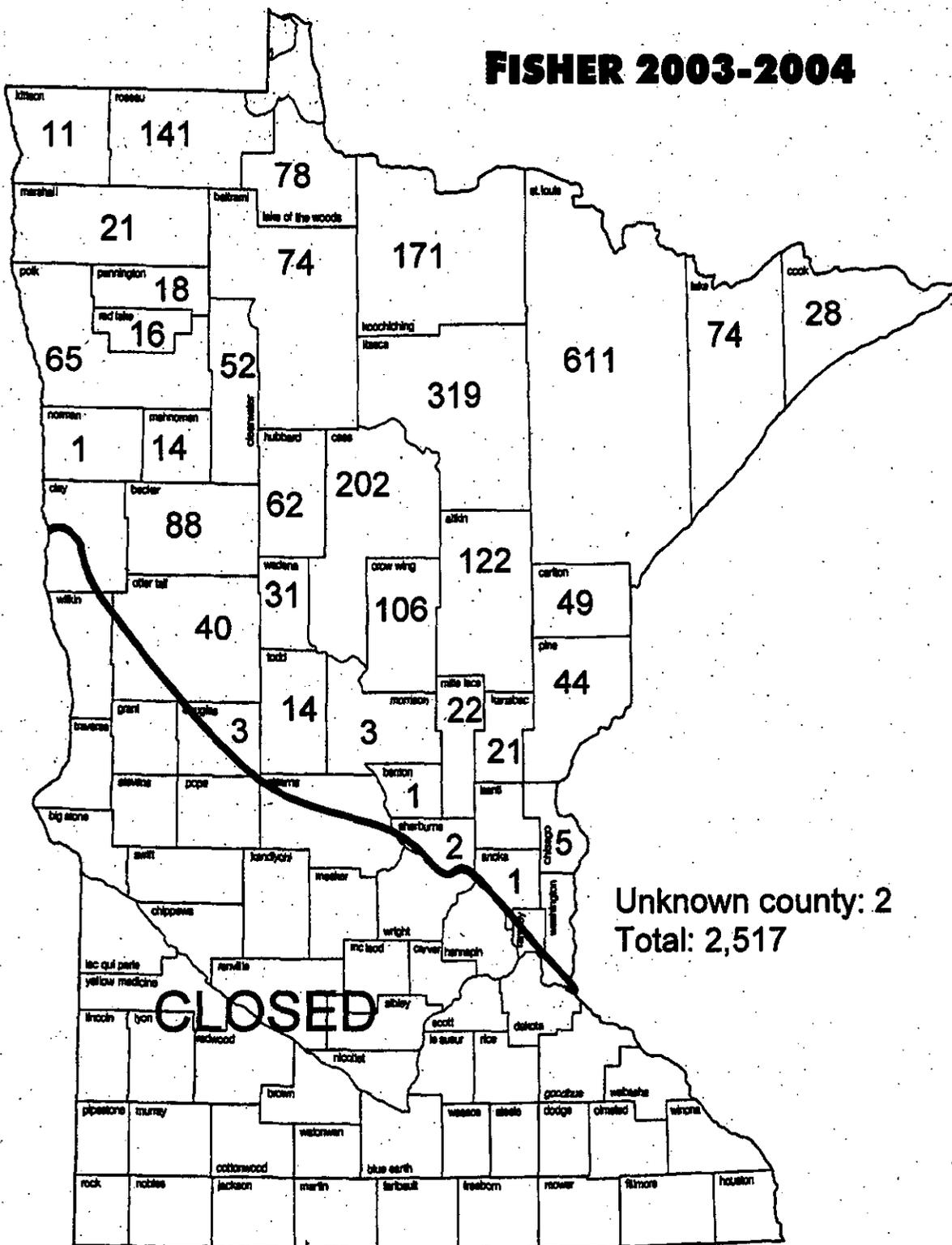


Figure 57. Fisher harvest by county, 2003-2004.

Table 65. Fisher harvest by date and sex, 2003-04 season, in Minnesota.

| Date | Sex | | | Total | % of Known Total | Cumulative % |
|---------|------|--------|---------|-------|---------------------|-----------------|
| | Male | Female | Unknown | | | |
| Nov. 29 | 1 | 3 | 0 | 4 | 0.2 | 0.2 |
| Nov. 30 | 61 | 30 | 0 | 91 | 3.6 | 3.8 |
| Dec. 1 | 138 | 109 | 0 | 247 | 9.8 | 13.6 |
| Dec. 2 | 101 | 82 | 0 | 183 | 7.3 | 20.9 |
| Dec. 3 | 123 | 91 | 0 | 214 | 8.5 | 29.4 |
| Dec. 4 | 88 | 87 | 0 | 175 | 7.0 | 36.4 |
| Dec. 5 | 83 | 84 | 0 | 167 | 6.6 | 43.0 |
| Dec. 6 | 110 | 97 | 0 | 207 | 8.2 | 51.2 |
| Dec. 7 | 89 | 76 | 0 | 165 | 6.6 | 57.8 |
| Dec. 8 | 72 | 57 | 1 | 130 | 5.2 | 62.9 |
| Dec. 9 | 63 | 51 | 0 | 114 | 4.5 | 67.5 |
| Dec. 10 | 77 | 66 | 4 | 147 | 5.8 | 73.3 |
| Dec. 11 | 55 | 43 | 0 | 98 | 3.9 | 77.2 |
| Dec. 12 | 58 | 51 | 0 | 109 | 4.3 | 81.5 |
| Dec. 13 | 68 | 70 | 0 | 138 | 5.5 | 87.0 |
| Dec. 14 | 74 | 61 | 0 | 135 | 5.4 | 92.4 |
| Unknown | 92 | 97 | 4 | 193 | 7.7 | 100.0 |
| Total | 1353 | 1155 | 9 | 2517 | 100 | |

Table 66. Fisher harvest by county and sex, 2003-04 season, in Minnesota.

| County | Sex | | | Total |
|-------------|------|--------|---------|-------|
| | Male | Female | Unknown | |
| Aitkin | 78 | 46 | 0 | 124 |
| Anoka | 1 | 0 | 0 | 1 |
| Becker | 43 | 44 | 1 | 88 |
| Beltrami | 41 | 33 | 0 | 74 |
| Benton | 0 | 1 | 0 | 1 |
| Carlton | 23 | 19 | 0 | 42 |
| Cass | 121 | 81 | 0 | 202 |
| Chisago | 2 | 3 | 0 | 5 |
| Clearwater | 28 | 24 | 0 | 52 |
| Cook | 15 | 13 | 0 | 28 |
| Crow Wing | 51 | 55 | 0 | 106 |
| Douglas | 1 | 2 | 0 | 3 |
| Hubbard | 41 | 20 | 1 | 62 |
| Itasca | 172 | 147 | 0 | 319 |
| Kanabec | 14 | 7 | 0 | 21 |
| Kittson | 9 | 2 | 0 | 11 |
| Koochiching | 81 | 90 | 0 | 171 |
| Lake | 34 | 40 | 0 | 74 |
| LOW | 38 | 40 | 0 | 78 |
| Mahnomen | 8 | 6 | 0 | 14 |
| Marshall | 14 | 7 | 0 | 21 |
| Mille Lacs | 15 | 7 | 0 | 22 |
| Morrison | 1 | 2 | 0 | 3 |
| Norman | 0 | 1 | 0 | 1 |
| Ottertail | 29 | 11 | 0 | 40 |
| Pennington | 10 | 8 | 0 | 18 |
| Pine | 33 | 21 | 0 | 54 |
| Polk | 33 | 32 | 0 | 65 |
| Red Lake | 9 | 7 | 0 | 16 |
| Roseau | 81 | 60 | 0 | 141 |
| St. Louis | 298 | 306 | 7 | 611 |
| Sherburne | 0 | 2 | 0 | 2 |
| Todd | 9 | 5 | 0 | 14 |
| Wadena | 19 | 12 | 0 | 31 |
| Unknown | 1 | 1 | 0 | 2 |
| Total | 1353 | 1155 | 9 | 2517 |

Table 67. Comparison of fisher harvest by county, 1992-93 through 2003-04.

| County | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 | 1999-00 | 2000-01 | 2001-02 | 2002-03 | 2003-04 |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Aitkin | 15 | 17 | 23 | 26 | 58 | 86 | 105 | 84 | 68 | 103 | 122 | 124 |
| Anoka | | | | | | | | | | | | 1 |
| Becker | 6 | 4 | 22 | 17 | 15 | 25 | 15 | 32 | 42 | 46 | 96 | 88 |
| Beltrami | 34 | 44 | 103 | 27 | 84 | 140 | 105 | 70 | 60 | 73 | 117 | 74 |
| Benton | | | | | | | | | | | | 1 |
| Carlton | 8 | 12 | 14 | 14 | 10 | 45 | 25 | 23 | 27 | 37 | 48 | 42 |
| Cass | 33 | 57 | 100 | 58 | 142 | 212 | 133 | 123 | 122 | 134 | 225 | 202 |
| Chisago | | | | | | | 1 | 0 | 3 | 2 | 6 | 5 |
| Clearwater | 3 | 3 | 13 | 0 | 6 | 31 | 18 | 13 | 15 | 45 | 45 | 52 |
| Cook | 17 | 17 | 16 | 12 | 12 | 24 | 26 | 19 | 19 | 33 | 27 | 28 |
| Crow Wing | 18 | 23 | 30 | 24 | 32 | 65 | 75 | 53 | 71 | 82 | 106 | 106 |
| Douglas | | | | | | | | | 1 | 0 | 0 | 3 |
| Hubbard | 7 | 6 | 8 | 15 | 30 | 66 | 38 | 34 | 34 | 64 | 59 | 62 |
| Itasca | 76 | 177 | 299 | 116 | 291 | 477 | 441 | 248 | 288 | 298 | 354 | 319 |
| Kanabec | 2 | 0 | 1 | 0 | 6 | 7 | 3 | 11 | 4 | 4 | 19 | 21 |
| Kittson | 0 | 1 | 1 | 0 | 0 | 7 | 3 | 3 | 3 | 7 | 3 | 11 |
| Koochiching | 97 | 148 | 250 | 92 | 232 | 386 | 369 | 150 | 159 | 156 | 178 | 171 |
| Lake | 57 | 82 | 99 | 43 | 60 | 123 | 84 | 46 | 62 | 54 | 72 | 74 |
| LOW | 26 | 8 | 43 | 4 | 30 | 59 | 99 | 83 | 71 | 48 | 115 | 78 |
| Mahnomen | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 12 | 16 | 14 |
| Marshall | 3 | 7 | 9 | 2 | 4 | 21 | 7 | 10 | 27 | 19 | 18 | 21 |
| Mille Lacs | | | | | 6 | 0 | 3 | 0 | 4 | 3 | 16 | 22 |
| Morrison | | | | | | | | 2 | 0 | 1 | 6 | 3 |
| Norman | | | | | | | 0 | 6 | 0 | 0 | 1 | 1 |
| Ottertail | | | | | | | 1 | 0 | 0 | 1 | 12 | 40 |
| Pennington | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 2 | 4 | 4 | 10 | 18 |
| Pine | 3 | 17 | 23 | 20 | 24 | 34 | 55 | 36 | 37 | 29 | 44 | 54 |
| Polk | 0 | 1 | 2 | 3 | 3 | 6 | 5 | 6 | 8 | 24 | 46 | 65 |
| Red Lake | 0 | 1 | 0 | 0 | 2 | 5 | 0 | 2 | 18 | 16 | 15 | 16 |
| Roseau | 32 | 68 | 93 | 26 | 89 | 134 | 171 | 111 | 157 | 180 | 106 | 141 |
| St. Louis | 229 | 463 | 616 | 153 | 604 | 783 | 880 | 546 | 369 | 608 | 734 | 611 |
| Sherburne | | | | | | | | | | | | 2 |
| Todd | | | | | | 2 | 0 | 0 | 0 | 2 | 5 | 14 |
| Wadena | | | | 1 | 2 | 10 | 5 | 8 | 0 | 31 | 39 | 31 |
| Unknown | 112 | 2 | 5 | 289 | 30 | 12 | 28 | 2 | 1 | 1 | 0 | 2 |
| Total | 778 | 1,159 | 1,771 | 942 | 1,773 | 2,761 | 2,695 | 1,725 | 1,674 | 2,119 | 2,660 | 2,517 |

Table 68. Marten harvest by date and sex, 2003-04 season, in Minnesota.

| Date | Sex | | | Total | % of Known Total | Cumulative % |
|---------|------|--------|---------|-------|---------------------|-----------------|
| | Male | Female | Unknown | | | |
| Nov. 29 | 5 | 2 | 0 | 7 | 0.2 | 0.2 |
| Nov. 30 | 151 | 81 | 0 | 232 | 7.2 | 7.4 |
| Dec. 1 | 206 | 95 | 0 | 301 | 9.4 | 16.8 |
| Dec. 2 | 174 | 99 | 0 | 273 | 8.5 | 25.3 |
| Dec. 3 | 151 | 82 | 0 | 233 | 7.2 | 32.5 |
| Dec. 4 | 138 | 79 | 1 | 218 | 6.8 | 39.3 |
| Dec. 5 | 138 | 62 | 0 | 200 | 6.2 | 45.5 |
| Dec. 6 | 171 | 88 | 0 | 259 | 8.1 | 53.6 |
| Dec. 7 | 115 | 49 | 0 | 164 | 5.1 | 58.7 |
| Dec. 8 | 81 | 47 | 2 | 130 | 4.0 | 62.7 |
| Dec. 9 | 65 | 34 | 0 | 99 | 3.1 | 65.8 |
| Dec. 10 | 95 | 43 | 1 | 139 | 4.3 | 70.1 |
| Dec. 11 | 38 | 44 | 0 | 82 | 2.6 | 72.7 |
| Dec. 12 | 66 | 45 | 1 | 112 | 3.5 | 76.2 |
| Dec. 13 | 85 | 57 | 1 | 143 | 4.4 | 80.6 |
| Dec. 14 | 65 | 52 | 1 | 118 | 3.7 | 84.3 |
| Unknown | 303 | 200 | 1 | 504 | 15.7 | 100.0 |
| Total | 2047 | 1159 | 8 | 3214 | 100 | |

Table 69. Marten harvest by county and sex, 2003-04 season, in Minnesota.

| County | Sex | | | Total |
|-------------------|------|--------|---------|-------|
| | Male | Female | Unknown | |
| Aitkin | 3 | 3 | 0 | 6 |
| Beltrami | 22 | 16 | 0 | 38 |
| Carlton | 8 | 3 | 0 | 11 |
| Cass | 2 | 0 | 0 | 2 |
| Clearwater | 1 | 0 | 0 | 1 |
| Cook | 266 | 144 | 1 | 411 |
| Crow Wing | 0 | 0 | 0 | 0 |
| Itasca | 89 | 52 | 0 | 141 |
| Koochiching | 363 | 170 | 1 | 534 |
| Lake | 342 | 199 | 0 | 541 |
| Lake of the Woods | 48 | 23 | 0 | 71 |
| Marshall | 1 | 0 | 0 | 1 |
| Pennington | 0 | 0 | 0 | 0 |
| Pine | 0 | 1 | 0 | 1 |
| Red Lake | 0 | 0 | 0 | 0 |
| Roseau | 58 | 46 | 0 | 104 |
| St. Louis | 844 | 502 | 6 | 1352 |
| Unknown | 0 | 0 | 0 | 0 |
| Total | 2047 | 1159 | 8 | 3214 |

Table 70. Comparison of marten harvest by county in Minnesota, 1992-93 through 2003-04.

| County | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 | 1999-00 | 2000-01 | 2001-02 | 2002-03 | 2003-04 |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Aitkin | | | | | | | 1 | 2 | 2 | 3 | 5 | 6 |
| Beltrami | 1 | 0 | 1 | 0 | 2 | 12 | 12 | 37 | 2 | 24 | 30 | 38 |
| Carlton | | | | | | | 3 | 6 | 5 | 11 | 4 | 11 |
| Cass | | | | | | | 1 | 2 | 3 | 1 | 3 | 2 |
| Clearwater | | | | | | | | | | | | 1 |
| Cook | 180 | 133 | 164 | 156 | 116 | 195 | 208 | 240 | 190 | 164 | 228 | 411 |
| Crow Wing | | | | | | | | 3 | 0 | 0 | 0 | 0 |
| Itasca | 28 | 43 | 41 | 26 | 83 | 164 | 155 | 114 | 82 | 102 | 147 | 141 |
| Koochiching | 206 | 232 | 313 | 251 | 382 | 597 | 517 | 492 | 306 | 327 | 525 | 534 |
| Lake | 357 | 252 | 299 | 252 | 234 | 287 | 284 | 284 | 323 | 243 | 492 | 541 |
| Lake of the Woods | 0 | 1 | 2 | 0 | 0 | 12 | 26 | 58 | 15 | 13 | 104 | 71 |
| Marshall | | | | | | | | 1 | 1 | 1 | 1 | 1 |
| Pennington | | | | | | | | | 2 | 0 | 0 | 0 |
| Pine | | | | | | | | | | | | 1 |
| Red Lake | | | | | | | | | 3 | 0 | 0 | 0 |
| Roseau | | | | | | | 41 | 51 | 98 | 48 | 116 | 104 |
| St. Louis | 666 | 771 | 707 | 396 | 797 | 980 | 1,020 | 1,131 | 596 | 991 | 1,184 | 1,352 |
| Unknown | 164 | 6 | 0 | 419 | 11 | 14 | 31 | 2 | 1 | 0 | 0 | 0 |
| Total | 1,602 | 1,438 | 1,527 | 1,500 | 1,625 | 2,261 | 2,299 | 2,423 | 1,629 | 1,928 | 2,839 | 3,214 |

Table 71. Otter harvest by 5-day interval and sex, 2003-04 season.

| Interval | Sex | | | Total Harvest | % of Known Total | Cumulative % |
|------------------|------|--------|---------|---------------|------------------|--------------|
| | Male | Female | Unknown | | | |
| Oct. 25-29 | 71 | 41 | 0 | 112 | 4.0 | 4.0 |
| Oct. 30 - Nov. 3 | 181 | 158 | 0 | 339 | 12.3 | 16.3 |
| Nov. 4-8 | 184 | 140 | 1 | 325 | 11.7 | 28.0 |
| Nov. 9-13 | 126 | 84 | 0 | 210 | 7.6 | 35.6 |
| Nov. 14-18 | 99 | 94 | 0 | 193 | 7.0 | 42.6 |
| Nov. 19-23 | 107 | 81 | 0 | 188 | 6.8 | 49.4 |
| Nov. 24-28 | 105 | 96 | 0 | 201 | 7.3 | 56.6 |
| Nov. 29 - Dec. 3 | 163 | 110 | 0 | 273 | 9.9 | 66.5 |
| Dec. 4-8 | 139 | 84 | 0 | 223 | 8.1 | 74.6 |
| Dec. 9-13 | 96 | 66 | 0 | 162 | 5.9 | 80.4 |
| Dec. 14-18 | 52 | 39 | 0 | 91 | 3.3 | 83.7 |
| Dec. 19-23 | 56 | 40 | 0 | 96 | 3.5 | 87.2 |
| Dec. 24-28 | 54 | 34 | 0 | 88 | 3.2 | 90.4 |
| Dec. 29-Jan. 4* | 47 | 52 | 0 | 99 | 3.6 | 93.9 |
| Unknown | 91 | 75 | 0 | 166 | 6.0 | 100.0 |
| Total | 1571 | 1194 | 1 | 2766 | 100 | |

* 7-day interval.

Table 72. Otter harvest by county and sex, 2003-04 season.

| County | Sex | | | Total |
|-------------------|------|--------|---------|-------|
| | Male | Female | Unknown | |
| Aitkin | 47 | 40 | 0 | 87 |
| Anoka | 7 | 6 | 0 | 13 |
| Becker | 63 | 42 | 0 | 105 |
| Beltrami | 88 | 85 | 0 | 173 |
| Benton | 4 | 3 | 0 | 7 |
| Carlton | 21 | 17 | 0 | 38 |
| Cass | 118 | 80 | 0 | 198 |
| Chisago | 11 | 11 | 0 | 22 |
| Clay | 5 | 2 | 0 | 7 |
| Clearwater | 26 | 26 | 0 | 52 |
| Cook | 25 | 16 | 0 | 41 |
| Crow Wing | 62 | 57 | 0 | 119 |
| Douglas | 6 | 6 | 0 | 12 |
| Hubbard | 42 | 28 | 0 | 70 |
| Isanti | 16 | 11 | 0 | 27 |
| Itasca | 218 | 163 | 1 | 382 |
| Kanabec | 19 | 19 | 0 | 38 |
| Kittson | 3 | 0 | 0 | 3 |
| Koochiching | 91 | 73 | 0 | 164 |
| Lake | 39 | 42 | 0 | 81 |
| Lake of the Woods | 24 | 18 | 0 | 42 |
| Mahnomen | 11 | 12 | 0 | 23 |
| Marshall | 25 | 9 | 0 | 34 |
| Mille Lacs | 21 | 12 | 0 | 33 |
| Morrison | 26 | 20 | 0 | 46 |
| Norman | 0 | 1 | 0 | 1 |
| Ottertail | 24 | 21 | 0 | 45 |
| Pennington | 10 | 6 | 0 | 16 |
| Pine | 43 | 35 | 0 | 78 |
| Polk | 48 | 24 | 0 | 72 |
| Red Lake | 12 | 23 | 0 | 35 |
| Roseau | 41 | 31 | 0 | 72 |
| St. Louis | 291 | 192 | 0 | 483 |
| Sherburne | 12 | 12 | 0 | 24 |
| Stearns | 9 | 4 | 0 | 13 |
| Todd | 28 | 21 | 0 | 49 |
| Wadena | 19 | 16 | 0 | 35 |
| Washington | 5 | 5 | 0 | 10 |
| Wright | 2 | 0 | 0 | 2 |
| Unknown | 9 | 5 | 0 | 14 |
| Total | 1571 | 1194 | 1 | 2766 |

Table 73. Comparison of otter harvest by county, 1992-93 to 2003-04.

| County | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 | 1999-00 | 2000-01 | 2001-02 | 2002-03 | 2003-04 |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Aitkin | 78 | 70 | 83 | 57 | 78 | 95 | 87 | 103 | 82 | 100 | 78 | 87 |
| Anoka | 14 | 18 | 20 | 13 | 13 | 21 | 23 | 25 | 14 | 17 | 17 | 13 |
| Becker | 36 | 38 | 62 | 64 | 54 | 85 | 30 | 64 | 45 | 125 | 104 | 105 |
| Beltrami | 97 | 91 | 166 | 59 | 133 | 133 | 81 | 103 | 74 | 108 | 127 | 173 |
| Benton | 0 | 4 | 5 | 0 | 1 | 4 | 6 | 2 | 7 | 10 | 6 | 7 |
| Carlton | 39 | 38 | 40 | 17 | 33 | 43 | 39 | 45 | 29 | 33 | 40 | 38 |
| Cass | 107 | 114 | 184 | 124 | 184 | 189 | 149 | 109 | 107 | 197 | 189 | 198 |
| Chisago | 9 | 17 | 26 | 9 | 13 | 20 | 20 | 13 | 12 | 26 | 18 | 22 |
| Clay | | | | | 2 | 7 | 0 | 7 | 3 | 1 | 7 | 7 |
| Clearwater | 14 | 27 | 52 | 13 | 57 | 25 | 18 | 29 | 25 | 47 | 61 | 52 |
| Cook | 28 | 44 | 53 | 37 | 28 | 29 | 48 | 30 | 26 | 26 | 31 | 41 |
| Crow Wing | 83 | 75 | 111 | 59 | 73 | 84 | 81 | 77 | 76 | 96 | 108 | 119 |
| Douglas | | | | 2 | 5 | 7 | 7 | 1 | 1 | 1 | 0 | 12 |
| Hubbard | 44 | 30 | 43 | 48 | 89 | 95 | 28 | 23 | 19 | 61 | 64 | 70 |
| Isanti | 10 | 19 | 20 | 10 | 17 | 29 | 26 | 20 | 28 | 33 | 33 | 27 |
| Itasca | 193 | 259 | 432 | 245 | 383 | 371 | 339 | 220 | 296 | 337 | 310 | 382 |
| Kanabec | 24 | 32 | 57 | 13 | 20 | 43 | 24 | 29 | 32 | 56 | 40 | 38 |
| Kittson | 1 | 0 | 1 | 1 | 0 | 2 | 1 | 0 | 0 | 1 | 2 | 3 |
| Koochiching | 52 | 65 | 147 | 68 | 139 | 109 | 126 | 63 | 107 | 118 | 96 | 164 |
| Lake | 91 | 44 | 76 | 33 | 62 | 57 | 77 | 44 | 70 | 57 | 57 | 81 |
| LOW | 15 | 1 | 20 | 9 | 16 | 24 | 32 | 36 | 18 | 17 | 21 | 42 |
| Mahnomen | 0 | 2 | 21 | 18 | 11 | 6 | 9 | 10 | 10 | 17 | 7 | 23 |
| Marshall | 6 | 7 | 13 | 3 | 14 | 14 | 5 | 8 | 16 | 13 | 35 | 34 |
| Mille Lacs | 5 | 16 | 40 | 7 | 27 | 18 | 17 | 15 | 12 | 20 | 22 | 33 |
| Morrison | 16 | 13 | 34 | 12 | 20 | 25 | 18 | 30 | 17 | 45 | 36 | 46 |
| Norman | 0 | 0 | 0 | 4 | 3 | 1 | 0 | 2 | 4 | 3 | 4 | 1 |

Table 73. (Cont.)

| County | 1992-93 | 1993-94 | 1994-95 | 1995-96 | 1996-97 | 1997-98 | 1998-99 | 1999-00 | 2000-01 | 2001-02 | 2002-03 | 2003-04 |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Ottertail | 5 | 10 | 10 | 19 | 14 | 41 | 29 | 20 | 14 | 51 | 32 | 45 |
| Pennington | 0 | 0 | 0 | 0 | 5 | 6 | 2 | 10 | 2 | 6 | 12 | 16 |
| Pine | 76 | 52 | 92 | 59 | 72 | 73 | 62 | 21 | 35 | 42 | 61 | 78 |
| Polk | 14 | 28 | 33 | 36 | 45 | 35 | 23 | 21 | 34 | 60 | 63 | 72 |
| Red Lake | 2 | 5 | 8 | 1 | 9 | 9 | 7 | 8 | 22 | 18 | 27 | 35 |
| Roseau | 14 | 11 | 29 | 3 | 24 | 41 | 40 | 37 | 40 | 36 | 27 | 72 |
| St. Louis | 187 | 286 | 507 | 148 | 473 | 332 | 421 | 353 | 255 | 453 | 316 | 483 |
| Sherburne | 8 | 7 | 11 | 10 | 12 | 15 | 13 | 14 | 10 | 11 | 11 | 24 |
| Stearns | | | | 3 | 15 | 15 | 11 | 7 | 5 | 5 | 17 | 13 |
| Todd | 0 | 1 | 1 | 19 | 22 | 22 | 23 | 16 | 22 | 24 | 30 | 49 |
| Wadena | 2 | 4 | 3 | 9 | 14 | 8 | 6 | 13 | 3 | 23 | 23 | 35 |
| Washington | 3 | 0 | 1 | 0 | 7 | 4 | 6 | 4 | 4 | 4 | 12 | 10 |
| Wright | | | | | | | | | | | 1 | 2 |
| Unknown | 91 | 31 | 44 | 203 | 32 | 8 | 12 | 3 | 2 | 3 | 0 | 14 |
| Totals | 1368 | 1459 | 2445 | 1435 | 2219 | 2145 | 1946 | 1635 | 1578 | 2301 | 2145 | 2766 |