

Prairie Naturalist

Keyword Indexes for Volumes 23 through 38, 1991-2006

1991

Volume 23

Keyword Index	Page
Aerial marking	117
Aerial photography	153
<i>Agelaius phoeniceus</i>	117
Agricultural land use	1
<i>Anas cyanoptera</i>	229
<i>Anas platyrhynchos</i>	49, 85
Antipredator behavior	109
Artificial nest structure	85
<i>Aythya valisineria</i>	223
Balloon photography	153
Behavior	229
Bighorn sheep	193
Bird population	25
Blackbird	117
Breeding	229
Breeding-site fidelity	209
Broods	73, 213, 223
Bruchid beetles	108
<i>Bruchophagus caraganae</i>	107
Butterfly	145
California	229
Canada goose	85
Canvasback	223
<i>Caragana aborescens</i>	107
Cattail marshes	117
<i>Charadrius melodus</i>	209
<i>Charadrius montanus</i>	109
Chemical cues	69
Cinnamon teal	229
Clutch	49
Colorado	1, 165
Collisions	177
Community	61
Control	181
Courtship	41
Crayfish	205
<i>Crotalus viridis</i>	69
Custer State Park	193
Dens	131
Diet	131
Discord goldenweed	101
Dispersal	117, 127
Distribution	11

Drought	209
Dry wetlands	209
Egg parasite	108
Eggs	41
Fangs	69
Fish	41, 61
Fishing tournaments	201
<i>Fundulus sciaticus</i>	41
Gear efficiency	53
Geographic affinity	25
<i>Geomys bursarius</i>	35
Gill nets	139
Grasslands	25
<i>Grus canadensis</i>	11, 17, 177
Habitat	73
Habitat use	213, 223
<i>Haplopappus macronema</i>	101
Home range	131
Hooking mortality	201
Implantation technique	35
Incubation	49, 229
Inventory	165
<i>Juniperus scopulorum</i>	25
kansas	127
Kentucky bluegrass	181
Land use	1
Larval drift	61
Late spring burn	181
Lead poisoning	21
Lead shot	21
Mallard	49, 85, 213
Manitoba	223
Marbled godwit	21
Mark-recapture	145
Mesh-size efficiency	139
<i>Micropterus dolomieu</i>	53, 201
Mixed-grass prairie	193
Montana	21
Mountain plover	109
Mourning dove	1
Movements	73, 223
Nebraska	11, 17, 41, 177
Nest predation	85
Nesting	1
Nests	49, 93
Nocturnal behavior	17
North Dakota	213
North Platte River	11
Northern Great Plains	209
Northern Plains	73
Oak savanna	153
Oak woodland	153

<i>Ovis canadensis</i>	193
<i>Perca flavescens</i>	139
Piping plover	209
Plains cottonwood	165
Plains topminnow	41
Platte River	17, 177
<i>Poa pratensis</i>	181
Pocket gopher	35
Population size	145
<i>Populus sargentii</i>	165
Predation	69, 93
Prescribed burning	193
Radio telemetry	131
Radio transmitters	35
Red fox	93
Red-winged blackbird	117
Refuges	205
Regal fritillary	145
Remote sensing	153
Reproduction	61
Reservoir	61
Riparian	165
River	61
Riverine	213
Rocky Mountain juniper	25
Roosting	17
Sandhill crane	11, 17, 177
Sensitive species	101
Shorebird chicks	109
Siberian pea tree	107
Smallmouth bass	53, 201
Soil moisture	181
South Dakota	53
Striped skink	93
Strike-induced chemosensory searching	69
Sunflower	117
Survival	213
Swift fox	131
Transmission lines	177
Turbidity	205
<i>Uscana semifumipennis</i>	108
<i>Vulpes velox</i>	131
Wasp	107
Waterfowl	93
Wild turkeys	73
Wildlife habitat	165
Winter range	193
Woodlands	25
<i>Zapus hudsonius</i>	127
<i>Zenaida macroura</i>	1

1992
Volume 24
Keyword Index

American bittern	241
Amylase	273, 280
Angler-catch data	89
Asteraceae: Heliantheae	159
Avian cholera	31
Barn owl	121
Bedding	97
Bird count, Christmas	85
Black-billed magpie	285
Blowout penstemon	133
Bluegrill	225
Body mass	191
<i>Botaurus lentiginosus</i>	241
<i>Branta canadensis</i>	21
Breeding birds	175
Brook silverside	281
<i>Buteo regalis</i>	43
Canada geese	21
<i>Charadrius melodus</i>	285
Clutch size	67
Colorado	191, 197
Columbian sharp-tailed grouse	191
Community	41
Composites	159
Corn	31
Costs/benefits	39
Coyote prey	205
Dispersal	65
Egg predation	285
Electrofishing	89
Endangered plant	133
<i>Eragrostis minor</i>	279
<i>Euphorbia falcate</i>	41
Feeding	97, 185
Ferruginous hawk	43
Flight energetics	21
Flood control project	241
Food habits	251, 283
Food plots	185
Foods	185
Fox squirrels	283
Geese	31
Genetic variation	280
Gill nets	231
Grassland birds	67
Gray partridge	44
Great plains region	31
Greater prairie-chicken	197

Growth	225
Habitat	67
Habitat changes	149
Habitat use	97
<i>Haplopappus fremontii</i>	143
Hispid cotton rat	123
Honey bees	159
Identification	273
Iowa	109, 273, 280
Kansas	65, 125, 205
<i>Labidesthes sicculus</i>	281
Land use	67
Largemouth bass	89
Least tern	1
<i>Lepomis macrochirus</i>	225
Loess Hills	41
<i>Macrhybopsis gelida</i>	281
Man-made structures	43
<i>Marmota monax</i>	65
Meadow vole	205, 280
<i>Micropterus salmoides</i>	89
<i>Microtus pennsylvanicus</i>	205, 280
Military disturbance	143
Minnesota	241
Montana	121
Mourning doves	251
Movements	197
Mule deer	97
Mycorrhizae	133
Mycotoxins	31
Native bees	159
Nebraska	149, 281
Nest record	121
Nest reuse	39
Nest success	67
Nests	67
Nesting	43
Nesting date	44
Nesting habitat	1
Non-passerine birds	67
North Dakota	57, 85, 97, 217
North Platte River	149
Northern oriole	39
Observability bias	97
<i>Odocoileus hemionus</i>	97
<i>Penstemon haydenii</i>	133
<i>Perca flavescens</i>	225
<i>Perdix perdix</i>	44
<i>Peromyscus</i>	273
<i>Phasianus colchicus</i>	185
Pheasants	185
Phenology	57

<i>Pica pica</i>	285
Piping plover	1, 285
Piscivory	283
Plants	57, 217
Platte River	1, 281
Precipitation	57
Pygmy shrew	257
Rare plant	143
Rare species	217
Rathbun Wildlife Area	109
Rayless goldenweed	143
Refuge	21
Reproduction	197, 261
Restored wetland	241
Sampling data	231
<i>Sciurus niger</i>	283
Seasonal variation	231
Seed bank	41
Shelterbelts	175
<i>Sigmodon hispidus</i>	123
Simultaneous capture	123
Small mammals	109
Social traveling	123
<i>Sorex hoyi</i>	257
South Dakota	89, 251, 257, 279
South Platte River	149
Southern bog lemming	205
<i>Spermophilus elegans</i>	261
Spurge	41
<i>Stizostedion canadense</i>	231
<i>Stizostedion vitreum</i>	231
Sturgeon chub	281
Swift fox	125
<i>Synaptomys cooperi</i>	205
Syrphid flies	159
Tall-grass prairie	159
Temperature	57
Transplant	197
<i>Tympanuchus cupido</i>	197
<i>Tympanuchus phasianellus columbianus</i>	191
<i>Tyto alba</i>	121
Vascular flora	217
<i>Vulpes velox</i>	125
Walleye	231
Warm-season grasses	109
Water projects	149
Weight	191
Western kingbird	39
Wildlife	175
Windbreaks	175
Winter	21
Winter habitat	185

Woodchuck	65
Wyoming	43
Wyoming ground squirrel	261
Yellow perch	225
<i>Zenaida macroura</i>	251

1993

Volume 25

Keyword Index

Accidents	281
<i>Agelaius phoeniceus</i>	127, 276
Aggression	77
<i>Antilocapra americana</i>	289
<i>Apolone spinifera</i>	355
Arctiidae	341
Ash	305
<i>Astragalus canadensis</i>	65
<i>Aythya affinis</i>	227
Bale	149
Basket	149
Biologically dry days	263
Bird count	135, 309
Birds	1
Black tern	213
Blackbird	127
Blue grama	345
<i>Bouteloua gracilis</i>	345
<i>Bromus japonicus</i>	185
Brood amalgamation	227
Broods	243
Brown-headed cowbirds	276
Canada milk-vetch	65
<i>Canis latrans</i>	295
<i>Carex formosa</i>	197
Channel catfish	85
<i>Charadrius melodus</i>	77, 139
<i>Charadrius montanus</i>	219
Chinook salmon	261
<i>Chlidonius niger</i>	213
Christmas bird count	135, 309
Clam shrimp	55
Climbing behavior	249
Colonization	161, 213
Colorado	237, 355
Columbian sharp-tailed grouse	237
Condition	93
Conductivity	109
Coyotes	295
Cyperaceae	197
Dabbling ducks	13, 43
Deer mice	295

Distribution	237
Drawdown	13
Drought	263
Drought stress index	263
Duckling survival	227
Ducks	19
Eared grebe	119
Earthworms	199
Eastern woodrats	27
Ecology	55
Electrophoresis	255
<i>Estigmene acrea</i>	341
Fish distribution	51
Fishes	317
Floristic inventory	173
Food cache	39
Food choice	305
Food habits	43, 325, 331
Foraging	249
Foraging habitat	243
Geographic variation	127
Grazing	139
Growth	85
<i>Grus canadensis</i>	199
Habitat management	243
Habitat selection	219
Habitat use	33
Hecla sandhills	73
Hispid cotton rats	249, 305
<i>Holosteum umbellatum</i>	358
Host plants	341
Hybridization	255
<i>Ictalurus punctatus</i>	85
Illumination effects	249
Indiana	39
Island biogeography	1
Jagged chickweed	358
Japanese brome	185
Jumping spiders	275
Kansas	27, 185, 275, 317
Konza prairie	27
Laevicaudata	55
Lake oahe	331
Lepidoptera	341
Lesser prairie chicken	243
Lesser scaup	227
Life history	55
Long-tailed weasel	39
<i>Lysimachia quadriflora</i>	73
Marsh	13
Maximum depth	109
Meadow jumping mice	33

Merriam's shrew	291
Mink	43
<i>Molothrus ater</i>	276
Montana	23
Mountain plover	23, 219
Movements	33
<i>Mustela frenata</i>	39
<i>Mustela vison</i>	43
Mycorrhizae	161
Native grasslands	199
<i>Neotoma floridana</i>	27
Nebraska	51, 77, 276, 291
<i>Nephelopsis obscura</i>	109
Nest parasitism	276
Nesting	139, 275
Nesting success	19, 149
New Mexico	243
Non-hunting mortality	281
North Dakota	81, 119, 135, 197, 263, 289, 309
North Dakota plants	173
<i>Notropis topeka</i>	51
Observations	23
<i>Odocoileus virginianus</i>	281
Ombrothermograph	263
<i>Oncorhynchus tshawytscha</i>	261
Over-water nests	19
Paddlefish	93
Parental care	227
Perennation	65
<i>Peromyscus leucopus</i>	27
<i>Peromyscus maniculatus</i>	295, 305
Piping plover	77, 139
Plant colonizing	345
Plant phenolics	341
Plants	173
Plastic marker flags	275
<i>Platanthera praeclara</i>	81
Platte River	199
<i>Podiceps nigricollis</i>	119
Pollination	65
<i>Polyodon spathula</i>	93
Population	237
Population structure	93
Prairie deer mice	305
Prairie dog	173
Prairie fires	305
Prairie wetlands	1, 109
Predation	39, 43, 295
Predator management	139
Prescribed burning	139
Primulaceae	73
Pronghorn	289

Range	23
Range distribution	289
Range seeding	345
Reclamation	161, 219
Red fox	43
Red-winged blackbird	127, 276
Relative weight	93
Reservoir	85
Restoration	1, 213
Ribbon leech	109
Riparian locations	276
Rivers	317
Sand Hills fauna	51
Sandhill crane	199
Sauger	255
Saugeye	255
Scarab beetles	199
Seed weight	65
Seed yield	65
Selenium	119
Shallow limestone	185
Shallow limy	185
<i>Sigmodon hispidus</i>	249, 305
Small mammals	27
Smartweed	13
<i>Sorex merriami</i>	291
South Dakota	19, 73, 281, 325, 331, 358
Spinicaudata	55
Spiny softshell turtle	355
Stem-cutting behavior	249
<i>Stethobaris commixta</i>	81
Stewart Lake NWR	119
<i>Stizostedion canadense</i>	255
<i>Stizostedion vitreum</i>	255, 325, 331
Stock density indices	261
Stolon formation	345
Stripmining	161
Structure use	149
Sunflower	127
Tall-grass prairie	81
Tannins	341
Topeka shiner	51
Turtle	355
<i>Tympanuchus pallidicinctus</i>	243
<i>Tympanuchus phasianellus columbianus</i>	237
Vegetation	173
Vehicles	281
Vesicular-arbuscular mycorrhizae	161
<i>Vulpes vulpes</i>	43
Walleye	255, 325, 331
Waterfowl	43
Waterfowl production	149

Weevil	81
Western prairie fringed orchid	81
Wetlands	13, 19, 213
White-footed mice	27
White-tailed deer	281
Whorled loosestrife	73
Wooded habitats	27
Wyoming	85, 219
Xerothermic value	263
<i>Zapus hudsonius</i>	33

1994

Volume 26

Keyword Index

<i>Acremonium ceonophialum</i>	53
<i>Agelaius phoeniceus</i>	273
<i>Aix sponsa</i>	137
Annual cycle	117
Ants	155
<i>Asclepias syriaca</i>	301
Attitudes	201
Badger	171
Big bluestem	241
Bird count	149
Birth (elk)	131
Black walnuts	312
Breeding pair distribution	137
<i>Bromus inermis</i>	157
Broods	263
Burning	241
<i>Buteo jamaicensis</i>	313
Canada geese	187
<i>Canis latrans</i>	287
Capture technique	125
Catch rates	1
<i>Cervus elaphus</i>	125, 131
<i>Chelydra serpentina</i>	33
Christmas bird count	149
Colorado	175
Common grackle	273
Common milkweed	301
Cottontail rabbit	53
Coyote	287
Coyote prey	93
Deer	287
Deer mice	209
Dispersal	293
Distribution (fish)	307
Distribution (prairie-chicken)	175
Duck survey	137
Eastern meadowlark	195

Ecogeography	283
Elk	125, 131
<i>Esox lucius</i>	11
Farm operator	201
Fescue, tall	53
Fescue prairie	157
<i>Festuca allaica</i>	157
<i>Festuca arundinacea</i>	53
Fish	1, 307
Fish nets	1
Flooding	309
Foliage	61
Food	53
Food habits	273, 287, 312
Foraging	171
Forster's tern	33
Fruit set	301
<i>Fundulus sciadicus</i>	307
<i>Geomys bursarius</i>	312
Germination ecology	157
Gill nets	11
Grass	53
Grassland	107, 229
Grazing	229
Growth	117, 217
Habitat	45, 263
Habitat selection	107
Hantavirus	209
Harvest regulations	15
Herbicide	155
Hispid Cotton rat	93
Home range	183
Iowa	117, 143
<i>Juglans niger</i>	312
Kansas	93, 117, 209, 283, 307
Kentucky bluegrass	241
Laramie River	1
Largemouth bass	15
Leaf binding	301
Length distribution	11
Lesser prairie-chicken	175, 183
Litter	241
Mallards	18
Meadow vole	283
Merriam's shrew	173
Microenvironment	155
<i>Microtus pennsylvanicus</i>	283
Michigan	117
<i>Micropterus salmoides</i>	15
Migration	293
<i>Mimulus glabratus</i> var <i>fremontii</i>	309
Montana	187

Mortality	131, 143
Movements	183, 293
Muerto Canyon virus	209
Natural lakes	221
Nesting	263, 311
Nesting structures	187
New Mexico	183
Niches	45
Nitrogen	61
Nitrogen uptake	229
North Dakota	171, 187, 273, 287
North Dakota Natural Science Society	89
Northern pike	11
<i>Odocoileus virginianus</i>	201, 293
<i>Opheodrys vernalis</i>	155
<i>Orobanche uniflora</i>	172
Patchy habitat	107
Perch use	195
<i>Peromyscus maniculatus</i>	209
<i>Phasianus colchicus</i>	143,263
Plains harvest mouse	311
Plains pocket gopher	312
Plains topminnow	307
Plant immigration	67
Population	175
Prairie	37, 155
Prairie cordgrass	301
Prairie pothole region	187
Prairie vole	93
Predation	33, 313
Productivity	229
<i>Quiscalus quiscula</i>	273
Radio telemetry	143
Red-tailed hawk	313
Red-winged blackbirds	273
<i>Reithrodontomys montanus</i>	311
Reproduction	131
Ring-necked pheasant	143,263
Rodents	107
Roundleaf monkeyflower	309
Saugeye	221
Seedbed ecology	157
Slot length limit	15
Small mammal community	37
Small mammals	45, 107
Smooth brome	241
Smooth green snake	155
Snapping turtle	33
<i>Sorex merriami</i>	173
South Dakota	11,125,137,172,173,187,201,217,293,307
Southern bog lemming	93, 283
<i>Spartina pectinata</i>	301

Species association	45
Species diversity	37
<i>Spermophilus tridecemlineatus</i>	117
<i>Sternaforsteri</i>	33
<i>Stizostedion vitreum</i>	217, 221
<i>Stizostedion vitreum x S canadense</i>	221
<i>Sturnella magna</i>	195
<i>Sturnella neglecta</i>	195
Succession	241
Sunflower	273
Supplemental feeding	131
Survey	201
Survival	143
<i>Sylvilagus floridanus</i>	53
<i>Synaptomys cooperi</i>	93, 283
Tag returns	293
Tallgrass prairie	61, 067, 093, 107
<i>Taxidea taxus</i>	171
Thirteen-lined ground squirrel	117
Transplanted sod	67
Trapping	125
<i>Tympanuchus pallidicinctus</i>	175, 183
Vegetation structure	37
Vocal behavior	195
Walleye	217, 221
Water stress	157
Western meadowlark	195
White-tailed deer	201, 293
Wood duck	137
Woodland	107
Wyoming	1
<i>Xanthocephalus xanthocephalus</i>	273
Yellow-headed blackbird	273

1995

Volume 27

Keyword Index

age determination	41
<i>Aix sponsa</i>	27
American tree sparrow	17
American woodcock	172
<i>Ammodramus leconteii</i>	89
<i>Aplodinotus grunniens</i>	51
<i>Artemisia spp1</i> autumn fire	158
avicides	11
biogeography	147
birds	11, 95, 147
Black Hills	115
Blackbirds	11
<i>Blarina hylophaga</i>	158
blue grosbeak	203

Bowdoin Nat'l Wildlife Refuge	125
brood parasitism	193
brown-headed cowbird	193
<i>Calamospiza</i>	213
<i>Caprimulgus vociferous</i>	23
<i>Centrocercus urophasianus</i>	1
<i>Chen caerulescens</i>	209
Christmas bird count	95
citizen attitudes	221
clay-colored sparrow	193
Colorado	1, 147
condition	51
Conservation Reserve Program	17, 89
<i>Cryptotis parva</i>	63
<i>Cypripedium candidum</i>	123
Oalea leporina (Ait) Bullock	167
density	33
distribution	89, 203
divergent selection	167
dwarf shrew	63
Elliot's short-tailed shrew	158
Forbs	17
foxtail dalea	167
freshwater drum	51
grassland birds	17
great horned owls	127
<i>Guiraca caerulea</i>	203
habitat use	17
habitat loss	1
habitat fragmentation	1
herbicide	129
home range	33
hunters	221
Kansas	17, 185
Konza Prairie	33
landscape ecology	147
Le Conte's sparrow	89
least shrew	63
leisure sports	221
lesser snow goose	209
longevity	209
mail survey	221
mammalian distribution	185
<i>Microtus ochrogaster</i>	33, 185
<i>Microtus pennsylvanicus</i>	185
<i>Molothrus ater</i>	193
Montana	27, 125
<i>Myotis septentrionalis</i>	185
nest success	193
nest boxes	172
nesting	23
North Dakota	193, 203

Northern Great Plains	89
<i>Nycticeius humeralis</i>	185
oil pit	81
otoliths	41
outdoor recreation	221
<i>Pipistrellus subflavus</i>	185
population distribution	27
prairie vole	33
prescribed fire	129
pygmy shrew	63
relative weight	51
reservoirs	101
rodents	158
sage grouse	1
sagebrush steppe	129
sagebrush	1
sandhill crane	125
seed mass	167
short-grass plains	213
silver-haired bat	127
small mammals	158
small white lady's slipper	123
songbirds	129
<i>Sorex hoyi</i>	63
<i>Sorex nanus</i>	63
South Dakota	23, 115, 221
<i>Spiza</i>	213
<i>Spizella arborea</i>	17
<i>Spizella pallida</i>	193
spring migration	11
<i>Stizostedion vitreum</i>	41, 101
Sunflower	11
tallgrass prairie	33, 147, 158, 213
vascular flora	115
walleye	41, 101
water consumption	213
waterfowl	209
Whip-poor-will	23
wildlife mortality	81
wildlife deterrents	81
wood duck	27
Wyoming	41, 101, 115

1996

Volume 28

Keyword Index

<i>Accipiter cooperii</i>	51
Aggression	23
<i>Ammodramus savannarum</i>	107
<i>Anas strepera</i>	23
Anatidae	23

aspen regeneration	199
atrazine	13
avian abundance	1
avian assemblages	1
avian species richness	1
Badlands National Park	115
bats	115
big bluestem	13
birds	1, 51, 59
Black Hills	199
black-footed ferret	163
<i>Botrychium campestre</i>	77
breeding system	91
<i>Bubo virginianus</i>	51
<i>Buteo jamaicensis</i>	51
<i>Buteo swainsoni</i>	51
<i>Canis lupus</i>	169
<i>Carex</i>	27
Chiroptera	115
Christmas Bird Count	59
<i>Circus cyaneus</i>	51
clearcuts	199
Conservation Reserve Program	1, 107
Cyperaceae	27
<i>Cyperus</i>	27
Diet	125
dispersal	21, 169
Distribution	169
<i>Echinacea angustifolia</i>	91
edge effect	107
eggs	51
<i>Eptesicus</i>	115
<i>Eudocimus albus</i>	141
<i>Felis concolor</i>	143
Females	125
fern	77
food habits	125
forbs	1
gadwalls	23
glades	77
grass	13
grasshopper sparrow	107
grassland birds	107
gray wolf	169
grazing	199
habitats suitability	169
hens	175
invertebrates	1
Iowa	77
Kansas	1, 21
<i>Lasiurus</i>	115
Logging	199

long-term effects	199
<i>Marmota monax</i>	21
Meadowlark	25
<i>Meleagris gallopavo merriami</i>	175
Merriam's turkey	175
Microchips	163
microhabitats	175
Montana	163
mountain lion	143
mowing	13
<i>Mustela nigripes</i>	163
<i>Myotis</i>	115
Nebraska	27, 107, 143
Nesting chronology	51
North Dakota	51, 59, 141, 169
<i>Odocoileus virginianus</i>	125
Oklahoma	125
<i>Perca flavescens</i>	65
periphyton	65
<i>Phasianus colchicus</i>	189
<i>Plecotus</i>	115
pollination	91
poults	175
prairie restoration	13
predation	189
prescribed fire	13
purple coneflower	91
radio telemetry	189
range	21, 169
rare species ecology	77
recruitment	65
remote identification	163
reproduction	91, 189
reproductive chronology	189
ring-necked pheasant	189
roosts	115
<i>Scirpus</i>	27
lash	199
smooth brome	13
sod-seeding	13
South Dakota	65, 115, 175, 189, 199
spawning	65
<i>Sturnella neglecta</i>	25
survival	189
waterfowl	23
western meadowlark	25
white ibis	141
white-tailed deer	125
wolf	169
woodchuck	21
yellow perch	65

1997
Volume 29
Keyword Index

Abundance	25
<i>Anas platyrhynchos</i>	49
bald eagle	275
bats	39
biogeography	1
birds	77
birds	81
black crappie	229
Black Hills	93
Bluegill	229
breeding birds	81
breeding biology	257
butterflies	219
<i>Canis latrans</i>	99
carcass survival	7
<i>Carex stricta</i>	15
catch card surveys	139
<i>Cervus elaphus</i>	237
<i>Charadrius melodus</i>	257
Chiroptera	39
<i>Circus cyaneus</i>	39
Coleoptera	273
Coleoptera	51
Colorado	25
common moorhen	53
conservation status	151
correction factors	99
coyote	99
creel surveys	139
diet	99, 171
diets	119
distribution	1
eastern woodrat	171
Eastern woodrat	249
Elk	237
endangered species	179
endangered species	275
<i>Esox americanus vermiculatus</i>	277
estimating bird mortality	7
European starling	274
fathead minnow	119
Fawn	93
fecal analysis	237
fish distribution	151
Flint Hills	263
food preference	249
food cache	249
food habits	99

<i>Gallinula chloropus</i>	53
glaciated till plains	151
grass pickerel	277
Great Plains	1, 257
Growth, 111	111, 119, 229
<i>Haliaeetus leucocephalus</i>	275
Hemiptera	50
Hibemaculum	39
interspecific competition	,49
Jewel Cave National Monument	39
johnny darter	119
Kansas River	257
Kansas	129, 139, 219, 257, 263
Konza Prairie	263
largemouth bass	229
least weasel	1
length-at-age estimates	229
mallard	49
mammals	171
mammals	263
management	219
<i>Micropeplus cribratus</i>	273
Migration	93
Minnesota	81
Missouri	151
<i>Morone chrysops</i>	111
<i>Mustela nivalis</i>	1
Nebraska	171, 275
<i>Neotoma floridana bailey</i>	171
<i>Neotoma floridana</i> ,	249
<i>Nepa apiculata</i> Uhler	50
nesting	49, 257, 275
North Dakota	77, 237
northern harrier	49
<i>Odocoileus virginianus dacotensis</i>	93
<i>Oncorhynchus mykiss</i>	139
<i>Pactopus homi</i> LeConte	51
<i>Peromyscus leucopus</i>	249
pesticides	7
populations	25
prairie streams	151
prairie	219
prey	99
rainbow trout	139
range extension	277
rare species	179
red fox	129
relict population	171
restoration	219
rumen analysis	237
saugeye	119
scale	229

scavengers	7
sedge	15
sensitive species	179
sex allocation	15
sexual reproduction	15
shorebirds	257
shortgrass prairie	25
South Dakota	39,51,53,93,111,119,179,229,273,277
South Dakota Natural Heritage Database	179
species richness	81, 219
<i>Spermophilus tridecemlineatus</i>	25
<i>Staphylinidae</i>	273
<i>Sterna antillarum</i>	257
<i>Sterna vulgaris</i>	274
tallgrass prairie	263
telephone surveys	139
thirteen-lined ground squirrel	25
threatened species	179
Throscidae	51
<i>Trixagus chevrolati</i> (Bonvouloir)	51
<i>Trixagus sericeus</i> (LeConte)	51
tussock sedge	15
<i>Vulpes vulpes</i>	129
walleye	229
Waterfowl Production Areas	81
waterscorpion	50
white bass	111
white-footed mouse	249
white-tailed deer	93

1998

Volume 30

Keyword Index

Acrididae	37
age	143
<i>Alliaria petiolata</i>	52
American coot	189
<i>Anas discors</i>	189
<i>Anemone cylindrical</i>	235
<i>Antrozous pallidus</i>	169
<i>Aphthona nigriscutis</i>	23
aquatic plants	51
attractancy	101
autogamy	169
bats	181, 193
beetles	23
Big Sioux River	199
biological control	23
bird counts	123
birds	53, 54, 123
birds of prey	53

blue-winged teal	235
bluestem	29
bog lemming	129
<i>Bonasa umbellus</i>	91
<i>Bos bison</i>	29
Brassicaceae	52
buffalo	29
Canada	85
candle anemone	169
capture technique	235
Carabidae	157
cattail management	243
Cattails	243
<i>Cecidomyiidae</i>	225
census	243
<i>Chordeiles minor</i>	85
clutch size	225
Coleoptera	23
Colorado	101, 157, 181
common nighthawk	85
conservation	191, 193, 194, 196
<i>Craniobia tuba</i>	225
cranes	191
<i>Cyclotrachelus substriatus</i>	157
decoy trap	235
drought	71
ducks	183,235
Eastern woodrat	187
ecology	55, 194, 196
electrofishing	9
<i>Eleodes obsoleta</i>	101
energetic contents	37
<i>Eptesicus fuscus</i>	181
<i>Euphorbia esula</i>	23
Eurasian water milfoil	51
feeding	1
fish	9, 151, 199
fish community	199
fish distributions	9
fish surveys	9
flea beetles	23
forbs	29
garlic mustard	52
gill net	151
glyphosate	243
grasses	29
grasshoppers	37
grassland restoration	56
grasslands	71
grazing	29
great blue heron	189
Great Plains	194

growth	143
hunting	49
impoundment	143
intraspecific competition	225
invertebrate biomass	37
Iowa	169
Kansas	91 129
Konza Prairie	37
Lake Oahe	151
<i>Laionyxteris noctivagans</i>	181
leafy spurge	23
macrohabitat	157
mammals	129
Manitoba	235
mating system	169
microhabitat	157
<i>Micropterus punctulatus</i>	143
migratory waterfowl habitat	1
mined land	71
Missouri River drainage	9
Montana	63
<i>Myotis ciliolabrum</i>	181
<i>Myriophyllum spicatum</i>	51
nest predators	183
<i>Neotoma floridana</i>	187
Nebraska	187
nest success	63
North Dakota	71, 123
null models	55
nutrient contents	37
<i>Osmerus mordax</i>	151
paraitoids	225
<i>Perca flavescens</i>	111
persistence	199
pheromone	101
pitfall trap	101
plant diversity	71
pollination	169
population	111
population density	157
<i>Potamogeton pectinatus</i>	1
prairie streams	199
prairie falcon	53
prairies	56
predation	63
rainbow smelt	151
reproductive biology	169
restoration	91
roads	85
ruffed grouse	91
sago pondweed	1
Saskatchewan	85

savanna	56
scale	157
sedges	29
seining	9
sharp-tailed grouse	63
shortgrass prairie	101, 157
shot, lead	49
shot, spent	49
shot, steel	49
size selection	151
skunk	183
South Dakota	52, 111, 151, 199
spotted bass	143
streams	143
<i>Synaptomys cooperi</i>	129
tallgrass prairie	56
Tenebrionidae	101
Tettigoniidae	37
trees	54
<i>Tympanuchus phasianellu</i>	63
<i>Typha</i>	243
water quality	199
water milfoil	51
waterfowl	1, 243
wetlands	49, 243
wild rice	1
woodlands	56
Wyoming fishes	9
yellow perch	111
<i>Zizania palustris</i>	1
zooplankton indices	111

1999

Volume 31

Keyword Index

abundance	65, 145
age	43
American woodcock	141
animal damage	9
<i>Aphthona nigriscutis</i>	165
Arctrididae	173
artificial nests	215, 243
bats	245, 249
biological control	165
bite force	43
<i>Blarina</i>	43
body size	43
breeding birds	145
breeding habitat	119
breeding range	119
bufflehead brood	119

Carabidae	75, 173
Coleoptera	75
community structure	221
condition	65, 193
conservation	221
deer mice	129
dispersal	65, 193
distribution	33
early successional habitats	115, 193
eastern Colorado	145
edge effect	141
energy content	215
entomofauna	173
<i>Euphorbia esula</i>	165
fidelity	243
fire	75
fire lane	215
fish	193
fish assemblages	87
<i>Formica subsericea</i>	21
fragmentation	215
grassland bird	215
Great Plains	141, 249
Great Plains streams	87
growth	65
Gryllidae	173
Hantavirus	129
hoary bat	249
home range	33
invertebrates	173
Kansas River	65
Konza Prairie	173
leafy spurge	165
<i>Lasiurus cinereus</i>	249
<i>Lasionycteris noctivagans</i>	245
Little Missouri River drainage	87
longitudinal distribution	87
mallard	243
masticatory muscles	43
meadow voles	129
<i>Meleagris gallopavo</i>	33
<i>Microtus pennsylvanicus</i>	129
Montana fishes	87
mound-building ants	21
<i>Myotis septentrionalis</i>	245
nest depredation	215
nest site characteristic	1
North Dakota	129
northern pocket gopher	9
nutrient content	173
<i>Nycticeius humeralis</i>	245
<i>Peromyscus maniculatus</i>	129

<i>Phasianus colchicus</i>	1
pitfall traps	75
prairie	215, 221
prairie restoration	21
Prospect Hill Virus	129
pygmy shrew	115
radiotelemetry	9
relative abundance	193
reproduction	245, 249
ring-necked pheasant	1
river	193
sample size estimation	65
<i>Scaphirhynchus platyrhynchus</i>	65
<i>Scolopax minor</i>	141
seasonal record	249
shovelnose sturgeon	65
Sin Nombre Virus	129
size structure	65
<i>Sorex</i>	43
South Dakota	1, 115, 119, 145, 193
species richness	145
surgical implant	9
survivorship	33
tallgrass prairie	75
<i>Thomomys talpoides</i>	9
translocation	33
transmitter	9

2000

Volume 32

Keyword Index

alkali lakes	233
<i>Ammodramus henslowii</i>	219
aquaculture	17
Arkansas darter	103
Arkansas River Basin	103
artificial nests	29
behavioral cue	201
Black bass	69
canonical discriminant analysis	43
catch rate	69
<i>Charadrius melodus</i>	233
Cimarron River Basin	103
Colorado	137
common loons	17
conservation	157, 177
distribution	169, 177, 169
double-crested cormorants	17
ecology	77
electrofishing	69
endangered species	233

<i>Etheostoma cragini</i>	103
fire	219
<i>Fraxinus pennylvanica</i> Marsh	77
frequency of occurrence	43
freshwater mussels	1
grassland bird	201
grazing	219
Great Plains	233
Green ash	77
ground-nesting birds	29
habitat	137, 177
Henslow's sparrow	219
Illinois	29
Kansas	169
Kansas fishes	103
Kansas River Basin	1
Kansas mussels	1
largemouth bass	69
lesser prairie-chicken	137, 149, 157, 169, 177, 189
<i>Micropterus</i> spp	69
<i>Microtus</i>	209
mowed trails	29
Nebraska	209
nest depredation	29
nest habitat	149
nest search	201
nest success	219
New Mexico	149, 157
North Dakota	77
Oklahoma	189
Oklahoma fishes	103
<i>Onychomys</i>	209
owl pellets	209
<i>Peromyscus</i>	209
<i>Phalacrocorax auritus</i>	17
piping plover	233
piscivorous birds	17
population	169, 177
population dynamics	233
population surveys	189
red-necked grebes	17
reproductive success	233
Sandhills	43
savannah sparrow	201
status	137, 157, 177
steam fishes	103
<i>Synaptomys</i>	209
tallgrass prairie	219
topography	43
tower blind	201
<i>Tympanuchus pallidicinctus</i>	137, 149, 157, 189
Unionidae	1

vegetation patterns 43

2001

Volume 33

Keyword Index

aerial thermography	93
alopecia	221
amphibians	227
ants	153
anurans	227
Asilidae	65
avian surveys	249
bird vocalizations	249
bitternut hickory	197
black walnut	197
body composition	183
breeding habitat	209
cached food	197
calling surveys	227
<i>Charadrius melodus</i>	209
climate	135
cotton rat	129
cover crops	1
deer mice	183
<i>Demodex</i> sp.	221
<i>Demodex odocoilei</i>	221
Diptera	65
diurnal and nocturnal seed use	153
drought	209
<i>Dryocopus pileatus</i>	163
erythmatous	221
fish sampling	21
fish abundance	21
food plot	31
fox squirrel	197
frogs	227
grassland bird	1
<i>Grus canadensis</i>	93
home range	31
human disturbance	249
index of biological integrity	135
intensive agriculture	1
invertebrate biomass	1
invertebrates	153
Kansas	65
laboratory fattening	183
LISA	1
Missouri River	209
mite	221
Nebraska	93
North Dakota	163, 227

<i>Odocoileus virginianus</i>	221
open-water bottom trawling	21
<i>Peromyscus maniculatus</i>	183
<i>Phasianus colchicus</i>	31
pileated woodpecker	163
piping plover	209
Platte River	93
point counts	249
pollution	135
population	129
prairie	65
range expansion	163
reproduction	129
ring-necked pheasant	31
robber flies	65
rodents	153
roosting site	93
sandhill cranes	93
<i>Sciurus niger</i>	197
<i>Sigmodon hispidus</i>	129
South Dakota	21, 31, 221
South Dakota river	135
survival	31
sustainable agriculture	1
tallgrass prairie	153
toads	227
vertebrates	153
wetlands	209
white-tailed deer	221

2002

Volume 34

Keyword Index

adaptive kernel	21
aerial photography	86
behavior	31
bighorn sheep	31
Bowman-Haley Reservoir	13
<i>Canis latrans</i>	75
<i>Carpiodes carpio</i>	13
common carp	13
Conservation Reserve Program	21
coyote	75
CRP	21
<i>Cyprinus carpio</i>	13
eastern cottontail	75
food habits	75
Grand River	47
grazing	116
Great Plains	1
habitat selection	86

home range	1, 21
homing	13
human disturbance	31
<i>Ictalurus punctatus</i>	47
Kansas	75, 107
life stage	47
minimum convex polygon	21
Missouri	47
movement	1
Nebraska	86
nesting	86
North Dakota	31
<i>Odocoileus virginianus</i>	1, 75
<i>Ovis canadensis</i>	31
patchiness	86
<i>Phasianus colchicus</i>	21
Preble's meadow jumping mouse	116
predation	75
recreational impacts	116
<i>Reithrodontomys megalotis</i>	107
reproduction	107
ring-necked pheasant	21
river carpsucker	13
river basin	47
sharp-tailed grouse	86
site fidelity	1
small mammal	116
South Dakota	1
spatial scale	86
streams	47
<i>Sylvilagus floridanus</i>	75
trail impacts	116
<i>Tympanuchus phasianellus</i>	86
western harvest mice	107
white-tailed deer	1, 75

2003

Volume 35

Keyword Index

American avocet	95
<i>Ammodramus henslowii</i>	81
<i>Anas platyrhynchos</i>	65
<i>Aythya americana</i>	65
banding	19
bats	247
bobolink	197
<i>Branta canadensis maxima</i>	19
brood parasitism	145
brown-headed cowbird	145
Canada goose	19
checklist	257

Chiroptera	247
clay-colored sparrow	197
constructed island	65, 95
<i>Cryptotis parva</i>	213
distribution	187
eastern wild turkey	231
evening bat	247
farmstead	231
feeding	9
freshwater mussel	187
grasshoppers	9
grassland	145
grassland birds	197
Henslow's sparrow	81
home range	231
Illinois	33
impaling	1
Iowa	187
<i>Lanius ludovicianus</i>	1
least shrews	213
<i>Ligumia subrostrata</i>	187
loggerhead shrike	1
mallard	65
management	145
<i>Melanoplus confuses</i>	9
<i>Melanoplus sanguinipes</i>	9
methods	197
Minnesota streams	187
Missouri River	247
Missouri River drainage	187
<i>Molothrus ater</i>	145
nest	95
nest parasitism	65
nest records	81
nest-searching	197
nest success	65
North Dakota	65, 81, 95, 257
Palouse prairie	9
patch residence time	213
phenology	9
prey caching	1
radiotelemetry	231
rare bird committee	257
<i>Recurvirostra americana</i>	95
redhead	65
response to prey odors	213
restoration	33
Rio Grande wild turkey	231
sand prairies	33
Savannah sparrow	197
sedge meadow	33
shorebird	95

South Dakota	19, 187, 231 247
status	81, 257
tallgrass prairie	197
Unionidae	187

2004

Volume 36

Keyword Index

active lek	213
age estimation	75
ambient temperature	103
American bittern	33
<i>Anas</i>	1
<i>Anas platyrhynchos</i>	143
Anatidae	83
ANPP	23
<i>Apocynum</i>	231
behavior	103
bison	103
blue-winged teal	1
<i>Botaurus lentiginosus</i>	33
<i>Bouteloua curtipendula</i>	11
breeding birds	203
<i>Centrocercus urophasianus</i>	213
<i>Chrysochus</i>	231
clutch size	33
Cottonwood Lake Study Area	43
dispersal	231
diurnal	103
dogbane	231
duck nesting success	1
eastern wild turkey	161
flora	43
floristic quality	43
foot length	95
gadwall	1
greater sage-grouse	213
habitat conservation	83
habitat fragmentation	231
habitat selection	161
habitat use	143
hoof growth	75
Indian hemp dogbane	231
interwetland movements	143
Kansas	95
lesser prairie-chicken	95
mallard	1
mallards	143
management	33
mark-recapture	231
<i>Meleagris gallopavo silvestris</i>	161

microtine rodents	23
mixed-grass	43
mixed-grass prairie	83
monitoring	203
neonates	75
nesting	83
nest initiation	33
nest sites	161
nest success	33
nocturnal	103
North Dakota	83, 213
northeastern South Dakota	161
Northern Great Plains	75
<i>Odocoileus virginianus</i>	75
overwater nesting structures	143
patch juxtaposition	1
Pennsylvania	11
point counts	203
prairie	43
Prairie Peninsula	11
Prairie Pothole Region	1, 83
predator-prey	23
rangelands	83
raptor	23
relative abundance	203
Ridge and Valley	11
right-of-ways	1
roadside bias	203
rotational grazing	83
season	103
South Dakota	143, 213
species richness	203
tallgrass prairie	11, 23, 103
tarsometatarsus length	95
<i>Tympanuchus pallidicinctus</i>	95
wetlands	43
white-tailed deer	75
wing-chord length	95
xeric limestone prairie	11

2005

Volume 37

Keyword Index

<i>Ammodramus savannarum</i>	21
avian abundance	183
avian communities	183
avian populations	183
<i>Bembicinus</i>	61
<i>Bembix</i>	61
biocontrol insects	85
biodiversity	225

biogeography	101
biological control	61
bird checklist	205
Black Hills	151
Canada thistle	85
<i>Canis</i>	225
carnivore	225
cecal worms	143
<i>Cerceris</i>	61
<i>Cervus elaphus</i>	151
Cestoda	143
<i>Choanotaenia infundibulum</i>	143
<i>Chondestes grammacus</i>	21
<i>Cirsium arvense</i>	85
Cladocera	11
conservation planning	127
corn fields	1
<i>Daphnia lumholtzi</i>	11
distribution	225
elk	151
eyeworms	143
faunal survey	101
first account	11
foraging	1
Fort Leavenworth	101
germination	85
golf course construction	183
grasshopper sparrow	21
grassland bird	127
grassland grasshoppers	61
grasslands	73
grazing	73
greater prairie-chicken	127
Harlan County Reservoir	11
helminthic parasites	143
Kansas	1, 101, 143, 183
Lacreek National Wildlife Refuge	85
landscape ecology	127
lark sparrow	21
lesser prairie-chicken	1
<i>Lontra</i>	225
<i>Lynx</i>	225
mammals	101
microclimate	21
migration	151
naturalistic golf course construction	183
Nebraska	11, 225
Nematoda	143
nest architecture	61
nesting behavior	61
nest placement strategies	21
non-indigenous	11

North Dakota	205
<i>Oxybelus</i>	61
<i>Oxyspirura petrowi</i>	143
parasites	61
<i>Peromyscus leucopus</i>	29
persistence	29
<i>Phasianus colchicus</i>	143
<i>Philanthus</i>	61
<i>Plenoculus</i>	61
prey record	61
<i>Puma</i>	225
Rare Bird Committee	205
ring-necked pheasant	143
root biomass	73
seasonal ranges	151
seed production	85
sex-biased predation	61
soil organic matter	73
South Dakota	85, 151
<i>Sphecidae</i>	61
<i>Subulura</i> sp	143
<i>Subulura suctoria</i>	143
survival	29
<i>Tachysphex</i>	61
tallgrass prairie	183
tapeworms	143
<i>Tympanuchus pallidicinctus</i>	1
<i>Ursus</i>	225
white-footed mouse	29
Wyoming	151
zooplankton	11

2006

Volume 38

Keyword Index

age	167
age at maturity	113
agriculture	73
amphibians	207
<i>Antilocapra americana</i>	155, 239
artificial burrow	145
bats	13
biological diversity	207
blackbirds	73, 183
blue sucker	167
body condition	213
<i>Bromus intermis</i>	1
brood break-up	85
cattail	183
Conservation Reserve Program	25
corn fields	73

cover structure	223
<i>Cycleptus elongatus</i>	167
deer mouse	145
diet composition	239
dispersal	85
ducks	25
emergents	183
<i>Eptesicus fuscus</i>	13
fecal samples	239
fecundity	113
feeding sites	73
food habits	239
genetics	155
grassland birds	39
grassland management	1
grassland passerines	1
Great Plains	207
growth	167
GSI	101
habitat enhancement	223
habitat selection	73
habitat use	223
heterozygosity	155
human-made forest	13
inbreeding	155
Kansas	85, 145, 223
<i>Lasionycteris noctivagans</i>	13
<i>Lasiurus borealis</i>	13
<i>Lasiurus cinereus</i>	13
larval fish	167
<i>Lepomis gibbosus</i>	101
lesser prairie-chicken	85
<i>Macrhybopsis meeki</i>	113
<i>Micropterus punctulatus</i>	223
microsatellite DNA	155
Milk River	167
Missouri River	113, 167
Mixed-Grass prairie	145, 207
morphometrics	213
<i>Myotis ciliolabrum</i>	13
national grassland	39
Nebraska	13
nest success	25
North Dakota	1, 25, 39, 207
northern mixed-grass prairie	1
organosomatic indices	101
<i>Peromyscus maniculatus</i>	145
population estimates	39
Prairie Pothole Region	25
predator	25
prescribed fire	1
pronghorn	155, 239

pumpkinseed	101
reproduction	113, 167
reptiles	207
roost-site selection	183
shelter belt	73
sicklefin chub	113
size at maturity	113
South Dakota	73, 155, 183, 213, 239
spotted bass	223
spring migration	73, 183
turtle	213
<i>Tympanuchus pallidicinctus</i>	85
von Bertalanffy	167
Waterfowl Production Area	25
wetlands	183
wildlife refuges	207
Wind Cave National Park	155, 239
Yellowstone River	113