

Subject Index

- 1985 Food Security Act 429
- 1985 Food Security Act [Farm Bill] 201
- 1992 National Resources Inventory 31
- 3 Decades Forest 17
- abandoned land 344, 368
- Abandonment 3
- aboveground vegetation 281
- abundance 124, 134, 143, 168, 170, 175, 197, 212, 227, 243, 245, 259, 263
- access 414
- Accumulation 3
- Accuracy 254
- Acid mine drainage 451
- acreage 297, 382
- acreage reduction 382
- Acrididae 198
- Adair County 175
- adaptive kernels 202
- Administration 399
- Administrative agencies 399
- aerial photography 125
- afforestation 4, 60, 80, 183, 309, 313, 321
- age 168
- Agelaius phoeniceus 146, 220
- Agelaius phoeniceus [red winged blackbird] (Passeriformes) 129
- aggregates 16
- agricultural and rural law 285
- agricultural chemicals 406
- agricultural conservation 171, 377
- Agricultural conservation---Government policy---Environmental aspects---United States 164
- Agricultural conservation---Government policy---United States 137
- agricultural conservation programs 120, 125, 210
- Agricultural conservation United States 275, 316, 318, 448, 452
- Agricultural conservation---Vermont 422
- Agricultural contracts---United States 316
- agricultural crises 285
- agricultural crops 209
- Agricultural ecology---United States 164, 347
- agricultural economics 81, 283, 382, 388, 427, 429, 434
- agricultural economics (general) 220, 272, 407
- agricultural ecosystems 136, 141
- agricultural environmental program 293
- Agricultural extension 380
- agricultural land 2, 35, 39, 47, 91, 103, 111, 181, 193, 220, 235, 256, 265, 309, 317, 332, 350, 357, 358, 375, 398, 409, 414, 423, 450
- Agricultural Land Management 19
- Agricultural lands 112
- Agricultural law and legislation---United States 137
- agricultural nonpoint source pollution 78
- agricultural policy 295, 362, 421, 436
- agricultural pollution 34, 96, 107
- Agricultural pollution---United States 59
- agricultural practices 7, 75, 102, 153, 156, 180, 220, 226, 243, 272, 301, 330, 424, 453
- agricultural prices 382
- agricultural production 35, 43, 240, 421
- agricultural programs 201
- agricultural regions 27
- Agricultural Resources Conservation Program 396
- agricultural runoff 71, 75, 76, 84, 91, 96, 97
- agricultural soils 2, 4, 23
- Agricultural subsidies---United States 315
- Agricultural Watersheds 34
- agriculture 30, 34, 41, 43, 50, 56, 66, 75, 85, 90, 96, 109, 115, 119, 156, 191, 203, 250, 254, 258, 261, 274, 306, 330, 378, 387, 395, 396, 409, 434, 437
- Agriculture and food 377, 405, 434
- Agriculture and food Agricultural economics 1, 356, 378, 388, 427, 429
- Agriculture and food Agricultural equipment facilities and operations 1, 87, 112, 152, 337, 396, 430
- Agriculture and state---Environmental aspects---United States 164
- Agriculture and state---United States 315, 348
- Agriculture---Economic aspects 335
- Agriculture---Economic aspects---North Dakota 286
- Agriculture---Economic aspects---United States 394
- Agriculture---Environmental aspects 11, 22, 335, 383, 415
- Agriculture, Forestry and Wildlife 171
- Agriculture, Forestry & Wildlife 180, 182, 210, 218
- agriculture (general) 242
- Agriculture---Social aspects---United States 346
- Agriculture---United States---Legislation 11
- agroecosystems 20
- agronomic characteristics 128
- Agronomy 30, 50, 165
- agropyron 53
- Aimophila cassinii 220
- air pollution 4
- Air pollution---United States 11
- Air quality 337, 437
- Alabama 13, 314
- alfalfa 182
- alternative farming 412
- alternative versus conventional farming systems 412
- Alternatives 405
- amaranthus 372, 373
- amaranthus rudis 372
- amenity and recreation areas 297, 414

- American Conservation Reserve Program** 293
American goldfinch 146
American goldfinch (Passeriformes) 122
American tree sparrow (Passeriformes) 122, 126
amino sugars 47
Ammodramus bairdii 424
Ammodramus henslowii 226
Ammodramus savannarum 146, 212, 220, 272
Ammodramus savannarum [grasshopper sparrow] (Passeriformes) 129
Ammodramus savannarum (Passeriformes) 126, 234
ammonia oxidizing bacteria 42
ammonium nitrate 398
amphibians 173
anas 172, 207
Anas acuta 244
anatidae 205, 233
andropogon gerardii 128, 320, 322, 372
angiosperms 2, 24, 29, 36, 80
angling 78
animal (Animalia) 249
animal (Animalia Unspecified) 234
animal manures 317, 450
animal populations 113
Animal Sciences 199
Animals 28, 119, 122, 126, 130, 149, 165, 202, 234, 249, 252, 255
anthonomus grandis 279, 340
antilocapra americana 111
ants 173, 301
Aphididae 355
application rates 344, 384, 398
Aquaculture 207
Aquatic birds 177, 233
aquatic plants 385
Aquatic Science 70, 131, 401
aquifers 39, 66
arable land 38, 384
arable soils 16, 18, 47, 384
Area 87, 94, 233
Area Sensitivity 134
arid land foxes 199
artemisa 154
Artemisia spp 154
arylamidase activity 30
assessment 23, 412
atmosphere 4
Atmospheric sciences Physical meteorology 1
attitudes 332, 414
availability 24
Aves 140, 153, 168, 177, 182, 194, 195, 228, 251, 265
Aves (Aves Unspecified) 130, 149, 252
avian abundance 135
Avian Communities 134
bacterial diseases 276
Baird's sparrow 424
band placement 372, 373
barley 54
Bartramia longicauda 272, 424
basic approaches, concepts, and theory 289, 418
Bays---Virginia---Richmond County 67
behavior 146, 154, 156, 174, 209, 236, 242, 272
behavior conservation 180
Benefit cost analysis 87, 437
benefits 88, 377
Best Management Practices 34, 56, 66
beta glucosaminidase activity 30
biocide 261
biodiversity 38, 112
biodiversity conservation 116
biodiversity protection 249
bioenergy 322
biogeochemical cycle 75
Biogeochemistry 75
Biogeography 248
biological activity in soil 100
biological diversity 402
Biological indicators 112
Biological productivity 94
Biology 131, 171, 185, 290, 401
Biology, Ecology 182
biomass 9, 23, 24, 47, 53, 55, 227, 245
Biomass Plantations 336
biomass production 92
Biotechnology & Applied Microbiology 227
bird (Aves Unspecified) 252
bird communities 125, 171
Bird eggs 177
Bird populations Effect of agricultural conservation on 132
birds 112, 119, 120, 122, 126, 130, 133, 140, 141, 143, 146, 149, 151, 152, 153, 154, 156, 158, 162, 165, 168, 169, 174, 175, 180, 194, 195, 196, 197, 202, 203, 209, 211, 212, 215, 220, 226, 227, 228, 232, 234, 236, 245, 251, 252, 253, 255, 259, 261, 263, 265, 272, 424
Birds---Habitat---Nebraska 127
blackbirds and cowbirds 263
bobolinks (Passeriformes) 126
bobwhite 150, 188, 250
Bobwhite quails 203
botanical composition 300, 323, 361, 372
Botany 203
bothriochloa 445
bothriochloa bladonii 350
bothriochloa ischaemum 45, 344, 345
bottomland forests 60, 80, 321
Brackish water 177
breeding 154, 209
breeding bird survey 229
Breeding Bird Surveys 143
Breeding Birds 124, 229
Breeding site 151
Breeding sites 177, 207
Breeding success 207, 233
Brewer's sparrow 154

- broadcasting** 372, 373
bromus inermis 100, 372, 449
brooding 156
brooding behavior 202
broods 156
broods and brooding 150, 156
Brookings County 242
brown headed cowbird 272, 424
brush control 247
budgets 297, 382
Bulk 19
bulk density 16, 53, 54, 57, 423
buried seeds 373
burning 261
burns 173
Business and economics 336, 405
California 63, 244
Canada 16
Canada goose (Anseriformes) 122
Canis latrans 424
canopy 423
capitalism 362
carabidae 350
carbofuran 309
carbon 1, 4, 10, 12, 18, 23, 24, 29, 43, 47, 48, 52, 53, 56, 57, 100
Carbon 13 natural abundance 20
carbon cycle 4, 13
Carbon dioxide 1
Carbon Dioxide (CO₂) 14
carbon emission 12
carbon nitrogen ratio 23, 47
carbon pools 4
carbon sequestration 4, 14, 16, 18, 19, 20, 43
carbon sinks 15
carbon: soil sequestration practices 6
Carbon Storage 17
Carduelis tristis 146
carrying capacity 327
Carya illinoensis 80
case studies 412
Cass County, Illinois 308
Cassin's sparrow 220
Catching methods 301
Catchment areas 34, 85
Catoptrophorus semipalmatus 424
cattle 103
census 156
censuses 37
Cephalosporium gramineum 341
change 423, 449
changes detrimental to wildlife 156, 261, 263
Characteristics, behavior and fate 91
chemical composition 47
chemicals runoff and erosion from agricultural management systems 90
chenopodium album 373
Chesapeake Bay---Md and Va 67
chiselling 100, 449
chloroform fumigation 30
Chordates 119, 122, 126, 130, 149, 151, 165, 195, 202, 211, 234, 252
chronosequence 281
Ciconiiformes 424
Cistothorus platensis 232
clavibacter Michiganensis subsp insidiosus 276
clay loam soils 32
climate 5, 75, 180
climatic change 16
Climatic changes 1, 15
clutches 220
Coal mining effects 451
Coleoptera 135, 301
Colinus virginianus 138, 141, 150, 183, 188, 189, 250, 258, 267
colletotrichum trifolii 276
colonization 361
Colorado 113, 283, 304
commodity markets 382
commodity programs 382
common pheasant 156, 194, 236, 261
common snipe 424
common yellowthroat 146
common yellowthroat (Passeriformes) 126
communities 133, 146, 175, 220, 227
Community composition 233, 385
Community development---United States 346
community ecology 42, 350
Community structure 135, 195
community vitality 299
Comparative studies 85
comparison 136
Comparison Studies 85
comparisons 128
compliance provisions 201
comprehensive effort 6
Comprehensive Zoology 211
computer simulation 49, 382
conductivity 50
Congressional reports 377
conservation 1, 10, 15, 25, 43, 44, 51, 73, 74, 75, 77, 94, 98, 109, 120, 125, 153, 156, 187, 195, 197, 203, 210, 211, 216, 218, 226, 232, 235, 248, 265, 272, 273, 274, 289, 295, 311, 312, 356, 357, 359, 362, 365, 378, 388, 393, 402, 406, 408, 409, 413, 414, 418
conservation areas 49, 128, 189, 205, 223, 242, 279, 298, 314, 327, 340, 350
Conservation biology 195
conservation buffer strips 6, 43
conservation buffers 187, 256
conservation compliance 68
conservation compliance provision 81
Conservation---Cropland 104
conservation implications 195
Conservation in agricultural use 104
conservation interests 249

conservation land acquisition 249
Conservation measures 151, 195, 211
Conservation of natural resources---Economic aspects---North Dakota 286
Conservation of natural resources---Government policy---United States 348
Conservation of natural resources---Nebraska 179
Conservation of natural resources---United States 287, 346, 392, 394
Conservation of resources---United States---North Dakota 447
conservation practices 180
conservation practices: evolution 6
conservation programs 115, 133, 142, 143, 146, 154, 165, 175, 191, 212, 220, 250, 259, 261, 263, 267, 292, 377
Conservation Reserve Enhancement Program 110, 308
Conservation Reserve Enhancement Program---United States 351
Conservation Reserve Program 3, 4, 6, 9, 15, 17, 20, 26, 31, 33, 39, 43, 46, 53, 55, 58, 65, 68, 78, 81, 87, 90, 93, 98, 99, 105, 106, 114, 116, 117, 118, 121, 122, 123, 124, 126, 128, 129, 130, 133, 134, 142, 143, 144, 146, 148, 154, 155, 156, 157, 160, 161, 163, 170, 173, 174, 176, 186, 189, 190, 196, 197, 200, 204, 207, 208, 209, 211, 212, 217, 220, 221, 227, 229, 230, 231, 234, 235, 237, 238, 239, 241, 245, 250, 253, 254, 257, 258, 260, 261, 262, 264, 265, 266, 269, 270, 272, 276, 279, 281, 297, 298, 299, 304, 310, 311, 314, 322, 324, 328, 329, 337, 338, 344, 345, 349, 356, 358, 360, 361, 374, 375, 384, 389, 390, 395, 396, 399, 400, 404, 405, 406, 407, 411, 412, 416, 417, 419, 424, 426, 427, 428, 429, 433, 434, 435, 436, 438, 441, 442, 443, 444, 449, 454
Conservation Reserve Program [CRP] 152, 183, 201, 202
Conservation Reserve Program---Evaluation 284
Conservation Reserve Program lands 48, 111
Conservation Reserve Program U.S 132, 315
Conservation Reserve Program---United States 127, 139, 282, 287, 316, 319, 348, 351, 367, 371, 392, 394
Conservation Reserve Programme 151, 379
Conservation Reserve Programme fields 151
Conservation Reserve Programs 100, 188, 219, 236, 242, 292
Conservation Resource Management 165
conservation tillage 13, 14, 18, 36, 43, 45, 344, 345, 398, 421, 445, 450
Conservation, wildlife management and recreation 74, 75, 177
consevation compliance program 406
consevation reserve program 445
constituent loads 72
constraints 362
constructed wetlands 271
consumer surplus 255
continuous cropping 29
contracts 374, 395, 396
control programs 61
conversion 4, 32, 382, 425, 445, 449
cool season 170
Cool season and warm season grass fields 195
Corn Belt of USA 81, 406
Corn Belt States of USA 21, 36
cost analysis 25, 382, 430
cost benefit analysis 8, 61, 104, 105, 308, 379, 381, 399, 400, 405
Cost effectiveness 87
cost effectiveness analysis 27, 308
Cost sharing 312
Costs 34, 388, 395, 451
cotton 2, 30, 328, 382
cotton yield 30
cover 115, 170, 191, 250, 263
cover crops 13, 100, 339
cover, nesting 143, 150
cover type 229
coverage 361, 423
coyote 424
crested wheatgrass 333
crop (Angiospermae) 48
crop damage 224
crop density 345, 364
crop establishment 303
crop fields 122
crop management 48, 345, 364
crop mixtures 276, 342
crop production 36, 37, 39, 41, 53, 64, 104, 322, 328, 332
crop residues 18, 364
crop rotations 20, 30
crop yield 38, 128, 345, 364, 372, 398, 450
Crop yields 396
cropland 10, 25, 31, 41, 46, 73, 88, 158, 399, 439
croplands 4, 16, 18
cropping systems 13, 18, 30, 54, 92
crops 7, 10, 41, 102, 120, 311
CRP 19, 88, 170, 258, 307, 405, 434
CRP enrollment 73
CRP fields 124, 135, 227, 245
crude protein 103, 128
cultivars 128, 276
cultivated farmland 115, 150, 156, 191, 242, 250, 259, 261, 263
cultivated grassland soils 20
Cultivated Lands 10, 46, 56, 112, 387, 399
cultivation 1, 3, 45, 51
Culture of other aquatic animals 207
cutting 263
cutting frequency 276
cycling 64
Cypress Creek 306
Dabbling ducks 207

Subject Index

- Dakota** 134
dark eyed junco (Passeriformes) 122
databases 39
deciduous forests 60
Decision making 8, 396, 421
Decision support systems 306
deer, white tailed 242
deficiency payments 295
degradation 58
demography 314
denitrification 2
density 158, 209, 220, 236
Department of Agriculture 451
descurainia pinnata 280
detecting change 72
diameter 294, 326
diapause 340
dickcissel 146, 174, 215, 272
dickcissels 158
dickcissels (Passeriformes) 126
digestibility 128
Diplopoda 301
Diptera 301
direct sowing 54
disc 50
discing 364
disease resistance 276, 341
dispersion 188, 194
Dissolved oxygen 75
distribution 154, 220
distribution of costs 27
disturbed land 361
Diuraphis noxia 355
diurnal variation 242
diversification 246
diversity 220
Dolichonyx oryzivorus (Passeriformes) 126
Domestic livestock 167
dove, mourning 191
drainage 101
Drainage Area 85
drought 80, 222, 398
dry farming 37
duck nests 158
ducks 143, 233, 244
dust 16
Duval County 173
dynamic computable general equilibrium models 43
Dynamics 3, 14
earthworms 28
East central region 242
eastern meadowlark 146
Ecological Effects 330, 333
Ecological impact of water development 113
ecological requirements 191, 261
ecological restoration 267
Ecology 20, 72, 135, 158, 169, 170, 171, 195, 203, 229, 234, 244, 246, 289, 302, 379, 396, 405, 413
economic analysis 138, 274, 322, 328, 336, 414, 417
economic aspects 395, 399, 439
Economic Efficiency 34
Economic Evaluation 34, 255
Economic Impact 21, 27, 85, 239, 240, 295, 299, 327, 332, 382, 412, 419, 420
Economic impacts 396
economic instruments 116
Economic model 1
economic models 81
economic sectors 43
Economics 25, 34, 64, 85, 109, 274, 296
Ecosystem Function 17
ecosystem management 75, 162, 385, 424
Ecosystem management---United States 347
ecosystem stability 402
ecosystem structure 281
ecosystem vulnerability 116
ecosystems 1, 16, 146, 154, 156, 174, 209, 212, 220, 261, 272, 405, 424
Ecosystems and energetics 75
edge habitat 174
edge relation 234
Education 165, 453
effects 29
Effects on water of human nonwater activities 77, 82, 330
efficacy 344
elateridae 358, 375
electrical conductivity 28, 57
emission 2, 16
Emissions 1
endangered species 112, 197, 222, 267
energy cost of production 322
energy crops 227, 245
Energy Fuels 336
Energy Policies regulations and studies 336
Energy Reserves 336
Energy Source Development 336
enhancement 165, 402
enrollment 428
entisols 425
Environmental & Natural Resource Development 409
Environment 20, 44, 72, 135, 158, 169, 170, 229, 244, 312
Environment management 71, 75, 177, 251, 385, 388, 409
Environment---United States 363
Environmental action 25, 34, 41, 75, 91, 96, 97, 107, 109, 274, 306
environmental benefits 297
environmental benefits index 400, 405
Environmental concerns 377
environmental condition 116

- environmental degradation** 21, 75, 98
- environmental disturbances** 165
- Environmental Effects** 25, 85, 233, 396
- environmental factors** 304, 323
- environmental impact** 25, 28, 37, 167, 177, 220, 255, 288, 295, 308, 337, 357, 393, 408, 412, 414, 431
- environmental impact statements** 416
- Environmental impacts** 430
- Environmental issues** 85
- Environmental law** 453
- Environmental law---United States** 302, 415
- environmental legislation** 74, 283, 362
- environmental management** 44, 71, 378, 408, 410, 413
- Environmental management and planning** 312
- Environmental monitoring** 409
- Environmental Policy** 85, 104, 310, 379, 381, 408, 414
- Environmental policy---United States** 164, 302
- Environmental pollution and control** 1, 337, 377
- Environmental pollution and control Air pollution and control** 1
- Environmental pollution and control Water pollution and control** 430
- environmental protection** 21, 74, 77, 96, 109, 118, 274, 293, 297, 362, 374, 378, 395, 400, 408, 414, 419, 438
- Environmental protection---Cost effectiveness** 335
- Environmental protection United States** 302, 452
- environmental quality** 297, 302, 306, 381, 405
- Environmental Quality Incentive Program [EQIP]** 201
- Environmental Quality Incentives Program** 187, 381
- Environmental restoration** 75, 140, 385, 451
- Environmental risk assessment---United States** 302, 392
- Environmental Science** 131, 290, 401
- Environmental Sciences** 218
- Environmental transport** 105
- enzyme activity** 23
- eragrostis curvula** 222, 279
- eroded soils** 16, 36, 277
- erodibility** 32, 49, 445, 449, 450
- erodible soils** 445
- erosion** 21, 27, 34, 35, 36, 44, 45, 96, 180, 273, 285, 295, 306, 311, 328, 357, 366, 403, 410, 411, 414, 417, 418, 419, 420, 431, 433, 445
- Erosion and sedimentation** 31, 58, 98
- erosion control** 25, 34, 36, 41, 46, 73, 74, 77, 84, 87, 96, 187, 200, 213, 238, 274, 277, 299, 309, 314, 329, 333, 349, 362, 370, 382, 391, 395, 399, 400, 405, 407, 411, 427, 429, 433, 437, 442, 445, 446, 449, 451, 453
- erosion rates** 31
- establishment** 305
- estimation** 49, 78
- euphorbia esula** 327
- European starling (Passeriformes)** 122
- eutrophic lakes** 76
- eutrophication** 76, 95
- Evaluation** 74, 212, 307, 388, 408, 414, 437
- Evaluation process** 85
- Evaluation, processing and publication** 88
- evapotranspiration** 391
- exotic species** 333
- Expenditures** 34
- extensive agriculture** 115
- Eye spot** 341
- Eyespot** 341
- fallow** 18, 39, 48, 54, 57
- fallow systems** 13
- fallow tillage systems** 20
- falling** 58
- Farm Bill** 68, 165, 381
- Farm Bill of 1990** 396
- farm costs and returns surveys** 155
- Farm crops** 1
- farm income** 155, 295, 382
- farm management** 1, 37, 396, 408, 427, 453
- farm sector** 382
- farm size** 299, 450
- farm surveys** 155
- farmer service reward system** 293
- farmers** 27, 152, 311, 379
- farmers' attitudes** 268, 295
- farming** 64, 104, 239, 299
- Farming and agriculture** 151
- farming systems** 37, 64, 187, 299, 412
- farmland** 4, 12, 118, 174, 183, 209, 223, 272, 342, 424, 434
- Farmlands** 105
- farms** 102, 115, 150, 203, 274, 311, 388, 393, 434, 450
- Farms---Economic aspects** 447
- Farms---Environmental aspects** 415
- Farms---Vermont** 422
- Fayette County** 96
- feasibility** 322
- fecundity** 146, 195, 355
- Federal assistance programs** 427
- Federal jurisdiction** 395, 399
- federal policies** 44
- federal programs** 4, 9, 12, 27, 43, 49, 81, 118, 138, 146, 172, 174, 181, 220, 261, 266, 272, 274, 276, 277, 278, 295, 296, 297, 310, 322, 345, 349, 353, 357, 358, 360, 361, 370, 375, 382, 386, 391, 393, 400, 406, 412, 417, 419, 423, 438, 445, 449
- feeding** 173
- Feeding behavior** 215
- feeding ecology** 244
- fertility** 236
- fertilizers** 18, 344
- field experimentation** 364, 372
- field sparrow** 146

- Fields** 19, 126, 134, 168, 229
finance 417, 434
Financing 312
fine sandy loam 20
fire ants 169
fire ecology 247
Fire hazards 337
fires 173
fisheries 109
Fisheries management---Political aspects 69
fishery resources 109
fledglings 156
flood control 77, 89
flood damage 74
flooding 74, 77, 80
floods 74, 89
fodder crops 64, 276
Food 388
food, agriculture, conservation and trade act of 1990 295, 349
food and security act of 1985 285
Food availability 207, 215
food crops 115, 261
Food Security Act 427, 453
Food Security Act 1985 413
food security act of 1985 27, 33, 81, 83, 94, 105, 200, 295, 324, 396, 427, 428
food supply 261
foods 173
forage 64, 128
Forage plants---United States 383
foraging 165
Ford County 156
forest fauna 218
Forest management 60, 82, 326
forest plantations 183, 326
forest soils 4
Forest thinning---United States 287
forestlands 4
Forestry 296, 312, 365
Forestry management 312
forests 12, 16, 38, 60, 136, 321, 326
formicidae 169, 301
fragmentation 158, 331
frequency distribution 361
Freshwater 177
Freshwater pollution 71, 73, 76, 91, 97, 107
Fringillidae 146, 154, 174, 212, 220, 424
fuel crops 322
Funding 377
fungal diseases 276, 309
fusarium oxysporum f sp medicaginis 276
Future planning Projected 396
Galliformes 156, 188, 236, 250, 255, 261
Gallinago gallinago 424
game management 153
GAO reports 378
Garvin Brook Rural Clean Water Program 61
General 341
General Environmental Engineering 75
General papers on resources 77
Geographic Information Systems 194, 254, 307
geographical distribution 193, 375
geographical information systems 39, 317, 358, 366, 384
Geography 180
Georgia 294, 309
Geoscience 70
Geothlypis trichas 146
Geothlypis trichas (Passeriformes) 126
Gini coefficient 297
GIS 194, 254
global carbon budget 4
Global Change 14
Glycine 36
glycine max 36, 92, 101, 364, 372
gossypium 2, 328
gossypium hirsutum 13, 344, 345
Government agencies Evaluation 380
Government finance 104
Government policies 94, 312, 427
government policy 55, 74, 84, 97, 107, 140, 153, 204, 226, 243, 402
government programs 25, 34, 41, 96, 434
Government regulations 306
Government Supports 25, 34, 41, 85, 439
Governmental interrelations 104
governmental programs and projects 66
Governments 34
grains 115
gramineae 279
grass management 32
grass prairies 120
grasses 24, 32, 40, 152, 253, 279, 283, 300, 304, 305, 340, 355, 360, 437
Grasses---Colorado---Growth 319
Grasses---Weed control---United States 371
grasshopper sparrow 146, 212, 220, 272
grasshopper sparrow (Passeriformes) 126, 234
grassland 19, 115, 124, 143, 146, 169, 175, 191, 195, 229, 245, 259, 263
grassland bird conservation 170
Grassland Birds 134, 197, 245
Grassland, cover quality 151
grassland improvement 320, 370
grassland management 344, 423
Grassland Soils 3, 4, 16, 23, 32, 47, 52, 425, 445
grasslands 2, 4, 16, 24, 39, 45, 46, 51, 54, 136, 140, 143, 146, 154, 159, 172, 204, 209, 220, 228, 232, 243, 246, 248, 251, 261, 272, 279, 300, 314, 325, 331, 339, 364, 398, 424, 449
Gratiot County 263
grazing 16, 103, 301, 327, 338, 350, 423
Grazing---Colorado 319
Grazing districts---United States 318, 448
Grazing Great Plains 367
grazing intensity 320

Grazing Lands and the Conservation Reserve Program 318, 448
Grazing lands---United States 383
grazing systems 338, 446
Great Plains 20, 117, 148, 254, 427
great plains grasslands 229
Great Plains Region United States 396
great plains states of USA 28, 29, 37, 47, 57, 64, 331, 374
Greater prairie chicken 214
greenhouse effect 4, 16
Greenhouse Gas 14
greenhouse gas mitigation 20
greenhouse gases 4
ground cover 39, 222
Ground water 105, 337, 430, 437
Groundwater 81, 82, 88, 366, 406
groundwater pollution 61
growth 294, 326
growth rate 326
growth stages 320
gymnosperms 80, 331
Habitat 124, 146, 149, 150, 170, 175, 188, 191, 195, 233, 242, 245, 250, 258
habitat alterations 156, 173, 424
habitat change 115, 261
habitat changes 212, 261
habitat classification 188, 250
habitat density 202
habitat destruction 159
habitat improvement 207, 274
Habitat improvement (physical) 177
Habitat management 142, 146, 156, 174, 188, 195, 209, 211, 212, 219, 220, 261, 263
habitat management for wildlife 115, 150, 191, 250, 261
habitat preference 358
habitat preservation 165
habitat relationships 146, 174, 212, 261
habitat selection 28, 111, 227, 242, 244
habitat surveys 250
habitat use 154, 173, 174, 199, 209, 242, 244, 272
habitat utilization 140, 265
habitats 28, 109, 118, 152, 155, 158, 159, 172, 189, 197, 200, 203, 204, 220, 222, 238, 266, 289, 297, 340, 356, 358, 378, 405, 407, 419, 430, 437
habits 209
harvesting 312, 425
harvesting date 320
hay 53, 64, 338, 450
haying 53
haymaking 183, 205, 300, 423
Hazards 451
herbage 338
herbicide application 280, 354, 368
herbicide mixtures 280
herbicide recommendations 368
herbicide residues 309
herbicides 339, 344, 370, 372
hibernation 120
high plains 239
highly erodable land 201
historic floods 74
history 87, 94, 263, 323, 324, 325, 396
home range 154, 199
home range size 202
Homoptera 355
horizons 39
horned lark (Passeriformes) 122
host plants 355
human activity 331
Human impact 228
hunting 138, 207, 240, 255, 314, 405, 414
hydraulic conductivity 50
hydraulic properties 50
hydrological regime 385
Hydrology 75, 82, 89, 385
hymenoptera 169, 301
hypoxia 95
idaho 97, 295
Illinois 36, 76, 96, 107, 115, 141, 150, 152, 156, 203, 215, 226, 228, 306, 308
Illinois: South and west central 211
impact 288
Implementation 396
implementation of research 431
Improvement 437
incentives 386, 408, 434
incidence 375
income 240, 388, 419
indexes 400
indexing 88
Indiana 65, 235
Indicator species 330
Indicators 38, 56, 409
infestation 361
infiltration 50, 425, 449
infiltrimeters 50
input output analysis 278, 285
insect communities 350
insect pests 309, 358, 375
Insecta 330
Insects 198, 330
integer programming 27, 295
integrated systems 37
intensive husbandry 103
introduced species 446
invasions 331
invertebrate biomass 252
invertebrates 28, 330
Iowa 26, 98, 115, 158, 161, 245, 358, 364, 372, 373, 375, 454
IPCC 20
IPCC Inventory 14
irrigated farming 39
Irrigation 18, 87, 104, 430
ischaemum 445

- IWEBP** 203
Jasper County 150
Joaquin kit foxes 199
juniper 229
Juniperus 331
Juniperus spp 125
juvenile 156
Kansas 39, 123, 128, 162, 174, 180, 191, 243, 247, 261, 272, 304, 339
Kansas Conservation Reserve Program 252
Kansas: Riley County 174
Kansas, Western 261
Kentucky 66, 303
Kingsbury County 242
Klamath Basin 93
Know County 175
Knox County 146, 195, 259
laboratories 57
Lake County 242
lakes 21, 107
Land 254, 359
Land and freshwater zones 195, 211
Land areas 203
land banks 39, 45, 47, 55, 100, 204, 205, 300, 344, 364, 372, 398
land capability 285
Land conservation 396
land cover 39
land degradation 331
Land Development, Land Reform, and Utilization (Macroeconomics) 146, 174, 220, 261, 272, 407
land diversion 12, 23, 52, 54, 200, 220, 240, 255, 266, 277, 297, 308, 324, 332, 349, 357, 360, 361, 374, 384, 386, 400, 403, 414, 419, 433, 442, 449
land improvement 15
Land Management 4, 13, 39, 52, 56, 58, 98, 102, 155, 235, 261, 297, 306, 310, 344, 345, 353, 364, 387, 414, 421, 423, 427
land management practice 130
Land ownership 396
land policy 328, 332, 353, 414
Land pollution 10, 44, 96
land, private 212, 242, 250, 261, 424
land productivity 445
land reclamation 105, 385, 451
land resources 359, 407, 418
Land retirement program 437
land retirement programs 201
land trusts 249
land types 38
land use 1, 2, 4, 9, 10, 23, 31, 32, 37, 38, 39, 45, 49, 52, 85, 87, 88, 94, 103, 105, 115, 141, 156, 191, 207, 212, 213, 214, 218, 220, 240, 249, 263, 272, 274, 306, 307, 308, 309, 325, 329, 330, 331, 332, 337, 342, 350, 353, 357, 364, 366, 374, 379, 387, 396, 399, 403, 414, 420, 421, 423, 425, 427, 438, 445, 449, 450
Land Use Change 14, 20
land use land cover maps 39
land use planning 39, 434
Land use, Rural---Government policy---United States 432
Land use---Rural---United States 316
Land utilization---Environmental aspects 447
landowners 171, 267, 314
Landscape 135, 329, 421
landscape conservation 35
landscape ecology 80, 331
Landscape Metrics 254
landscape structure 211
Landscapes 197
Landslides and erosion 44, 273
lapland longspur (Passeriformes) 122
LaPlatte River 71
Law 109
lawns and turf 280, 354
laws and regulations 68
leaching 81, 88, 384, 406
least weasel 193
legislation 33, 74, 94, 97, 109, 200, 285, 295, 306, 349, 397, 419, 420, 451
legumes 40, 152, 283, 300, 360
Legumes---Weed control---United States 371
Lek 214
Light traps 330
Limosa fedoa 424
Linn County 146, 175, 195, 259
literature reviews 204
litter plant 279, 364
livestock 173, 350
livestock farming 37
Livestock industry---United States 383
liveweight gain 103
Loblolly Pine 17
Local conservation programs 93
Logging 82
logistic regression 229
Long range Time 337
long term tillage 20
Longleaf Pine 17
Lorenz curve 297
loss of habitat 261
losses 240, 437
losses from soil 92, 384, 423, 445, 449
Lower Sangamon Watershed 308
Macon County 146, 175, 195, 259
macrotis 199
maize 2, 36, 38, 382, 406, 450
Mammalia 216, 233
mammals 233, 242, 424
Man induced effects 75
Management 19, 134, 141, 142, 146, 153, 156, 174, 188, 207, 209, 212, 214, 219, 220, 236, 242, 243, 248, 250, 251, 261, 272, 409, 424
manures 18
mapping 88

maps 39
marbled godwit 424
Marginal Agricultural Lands 17
marginal land 87, 294, 417
Marine environment 177
market prices 382
marketing 450
Maryland 16, 110
mathematical model 90
mathematical models 1, 43, 278, 308, 417
mating grounds 191
Matter 14
meadow vole 424
meadowlark 272
meadowlark (Passeriformes) 122
meadowlarks 126
meadowlarks, blackbirds and orioles 175
meadows 120, 210
medicago sativa 39, 53, 92, 100, 101, 276, 300, 449
Medicine and biology 203, 405
Medicine and biology Ecology 1, 197, 253, 337
Medicine and biology Zoology 253
Meetings 396, 427
melilotus officinalis 372
Mephitis 424
metapopulation viability 116
methodology 57, 302, 414
Michigan 168, 263
microbial biomass 24, 30
microorganisms 24
Microtus pennsylvanicus 424
Migratory Birds 124
mineralizable carbon 52
mineralizable nitrogen 52
mineralization 23, 45, 52, 53, 100
minimum convex polygons 202
minimum tillage 350, 425
Mining 451
Minnesota 26, 47, 61, 92, 101, 133, 157, 209, 276, 336, 360, 361
Minnesota, Southwestern 209
Minnesota, western 133
Mississippi 49, 57, 58, 63, 80
Missouri 121, 146, 175, 189, 195, 227, 250, 253, 258, 259, 412
Missouri, Northcentral 146
model 50
modeling 175, 188, 263
models 16, 78, 170, 197, 317, 358, 437
moldboards 100
mollisols 29, 32, 425
Molothrus ater 272, 424
monitoring 55, 436
Monocots 48
Montana 111, 190, 207, 285, 353
Monte Carlo method 400
mortality 156, 199, 309
mourning dove 191
mourning dove (Columbiformes) 122
movements 244
mowing 232, 320
Multidisciplinary 184
multiple land use 314
National conservation programs 65
national economy 293
National government 312
Natural resource conservation 405
natural resource management 203, 312, 405, 416, 434
Natural Resources 31, 146, 174, 203, 242, 261, 268, 272, 296, 378, 407, 437
Natural resources and earth sciences 203, 312, 337, 405, 434
Natural resources and earth sciences Hydrology and limnology 105, 430
Natural resources and earth sciences Natural resource management 94, 112, 152, 197, 253, 356, 378, 388, 396, 427, 429, 430
Natural resources and earth sciences Soil sciences 1, 87, 105, 388, 429, 437
Natural resources conservation 356, 434
natural resources land resources 220
Natural resources management 388
Natural Wetlands 134
nature conservation 45, 60, 103, 109, 159, 177, 222, 272, 279, 300, 326, 332, 364, 366, 379, 385
Nature conservation---United States---Legislation 415
nature reserves 45, 183, 205, 216, 326, 373
Nearctic region 195, 211
Nebraska 49, 57, 65, 87, 180, 304, 320, 364
neotropical migrant species 125
nest 191
nest density 220
nest parasitism 272
nest predation 129
Nest Success 143, 245
nesting 146, 172, 174, 177, 220, 222, 236, 272
nesting behavior 202
nesting sites 174, 220
Nesting Success 124, 129, 172, 195
nesting success and fecundity 195
nestling diet 135
nests 146, 159, 162, 174, 195, 204, 215, 220, 222, 228, 233, 236, 247, 251, 265, 272
nests and nesting 143, 146, 150, 175, 191, 259
New Mexico 219, 446
New York 317
NIPF 312
NIPF lands 312
nitrate 24, 101
nitrate nitrogen 28, 61, 92, 103
nitrites 61
nitrification 2
nitrogen 24, 29, 30, 45, 48, 52, 57, 100
nitrogen content 23, 47

Subject Index

- nitrogen cycle** 13
nitrogen fertilization 20
nitrogen fertilizers 322, 425, 450
nitrous oxide 2
no-tillage 2, 45, 53, 55, 100, 283, 344, 345, 350, 364, 372, 398, 425, 445, 449, 450
nongame wildlife 220
Nonhuman Vertebrates 119, 122, 126, 130, 149, 165, 202, 234, 252
Nonindustrial private forest 312
Nonpoint pollution 34, 91, 97, 107, 306
Nonpoint pollution sources 34, 75, 104, 306, 453
nonpoint source pollution 66
Nonpoint source pollution---United States 59
Nonpoint sources 91, 97, 105, 107
North America 2, 16, 18, 21, 24, 28, 29, 35, 36, 57, 64, 80, 115, 124, 133, 142, 143, 146, 150, 154, 156, 173, 174, 175, 177, 188, 195, 199, 209, 211, 212, 219, 220, 229, 236, 242, 248, 250, 255, 259, 261, 263, 272, 292, 317, 331, 359, 408, 414
North America Central States of USA 21, 28, 36, 57, 64
North America Dakota 28
North America, Erie L 34
North America: Great Plains 424
North American Breeding Bird Survey 149
North American grassland 135
North American Wetlands Conservation and Restoration Act of 1989 94
North Carolina 404
North central region 175
North Dakota 26, 53, 143, 145, 157, 190, 205, 207, 232, 245, 300, 327, 338, 423, 425
North Dakota---Economic conditions 447
North Dakota Enhancement Program 286
North Dakota---Environmental policy 447
North Dakota---Social conditions 447
Northcentral States 212
Northeastern States of USA 317
Northern Bobwhite 258
northern bobwhite (Galliformes) 122
Northern central region 259
Northern Great Plains 237
northern pintail 244
northern plains 143
Northern Plains States of USA 5, 28, 33, 57, 64, 238, 299, 323, 324, 325, 329, 442
NRCS 307
NRI 88
nutrient content 64
nutrient dynamics 4
nutrient management 187
nutrients 58, 64, 75
Nutrients (mineral) 75
odocoileus hemionus 111
odocoileus virginianus 111, 242
Odontophoridae 188, 250
offset schemes 116
offsite benefits 8
Ohio 21, 103, 265, 417
Oklahoma 29, 45, 128, 229, 331, 344, 345, 350, 426, 445
old fields 136, 162
onsite benefits 8
opportunity costs 240, 359
ORACBA 302
Oregon 292
Organic Carbon 7, 10, 14, 57
organic matter 1, 30, 40, 51, 98
Organic Matter Recovery 3, 19
Orthoptera 198
overwintering 279, 340
Panicum Virgatum 245, 320
Papilionoidea 36
participation 78, 428
Particle Size Analysis 19
partridge 194
Passerculus sandwichensis 232
Passeriformes 146, 154, 174, 209, 212, 220, 424
passerine (Passeriformes) 130
pastures 10, 38, 209, 272, 350
Patch Size 233, 254
Patches 233
Paternal behavior 215
Patterns 17, 111
Payment 378
Payments 377
Pennsylvania 65, 451
percolation 391
Perdix perdix 194
perennials 53, 101
Performance assessment 34
permanent grasslands 220, 360, 361
persistence 276, 360
pest management 358
pest scouting 358
pesticide leaching index 384
pesticide root zone model --- PRZM 81
pesticides 66, 81, 88, 261, 384, 406
pH 29
Phalaropus tricolor 424
Phasianidae 156, 236, 255, 261
Phasianidae: Galliformes, Aves 211
Phasianus colchicus 156, 170, 194, 236, 261
Phasianus colchicus (Galliformes) 119, 126
Phasianus colchicus (Phasianidae) 151
Phasianus colchicus [ring necked pheasant] (Galliformes): female, male 202
pheasant, ring necked 156, 261, 263
Pheasants 200, 245, 255
phleum pratense 276
phosphorus 28, 29, 136, 317, 360
phosphorus fertilizers 450
Phrynosoma cornutum 173
Physicochemical properties 75
physiographic features 39
physiology 156

phytophthora medicaginis 276
phytotoxicity 309
Pike County 76
pinus 326, 342
pinus 183, 417
pinus taeda 13, 294, 309
pisum sativum 53
Pittsfield City Lake 76
plains 125, 340
plant competition 294
Plant diseases 341
plant establishment 298
plant height 294, 320
plant parasitic nematodes 309
plant (Plantae) 249
Plant populations 75, 385
plant residues 18, 32
Plantae (Plantae Unspecified) 130
planting 183, 295, 312, 321, 437
planting stock 80
plants 2, 24, 29, 36, 48, 80, 130, 249, 331
Plants Botany 337
plateaus 340
plowing 100, 325, 364, 398, 449
Policies 112, 306
policies and programs 115, 143, 150, 242
policy 80, 109
policy making 25, 453
policymakers 436
pollutants 317
polluted water 317
pollution 66
pollution by agriculture 411, 441
pollution control 34, 61, 71, 91, 96, 97, 107, 274, 306
pollution legislation 97
pollution monitoring 91
Pollution monitoring and detection 91
Pollution (Nonpoint sources) 34
Poplars 336
Population 203, 253
Population decline 232
population density 111, 150, 172, 175, 181, 195, 198, 259, 261, 350, 373
population dynamics 146, 195, 261, 372
population ecology 212
population growth 204
population loss 261
population status 141, 226
Population Trends 135, 143, 229
populations 170, 204
Populations & general ecology 198, 301, 330
Populus 82
porosity 50
potassium 28, 360
pothole habitat 86
prairie 115, 158, 194
prairie marsh 86
Prairie Pothole region 99, 160, 190, 207, 233
prairie pothole wetlands 75
Prairie Wetlands 134
prairies 16, 24, 64, 75, 125, 159, 205, 210, 310, 330
precipitation 28, 42
predation 159, 228
Predator control 177
predators 180, 233
prediction 353
prescribed burning 222, 247, 320, 345, 398, 423, 446
Preservation 113, 203, 405
Prevention and control 34, 71, 76, 84, 91, 96, 97, 107, 306
prey density 165
price support 382
Prices 388
priorities 113
private farm management 293
private land 172, 312
private land management 201
private lands 116
private ownership 172
Problem solving information for state and local governments 312
Procyon lotor 424
production 115
production possibilities 314
productivity 35, 43, 46, 168, 174, 220, 236, 263, 272, 297, 312
profitability 295, 297
profits 27, 430
Program administration 405
program development 83, 436
program effectiveness 8
program evaluation 308, 428, 436
program participants 12, 27, 295, 314
Program participation 377
program transfer potential 293
programs 288, 298, 299, 329, 388, 442
projections 428
Protection 437
Protective measures and control 73, 274, 385
protein intake 103
Pseudocercospora herpotrichoides 341
public expenditure 8, 382
public loans 382
Public opinion 356, 420
public relations 272, 292
pyrolysis 322
quails 189
quality 9, 19, 23, 29, 445
quercus 80, 279
raccoon 424
rain 384
range extension 154
range management 446
Range management Great Plains 367
rangelands 16, 162, 198

Subject Index

- rates 199
- rating curves 72
- reclamation 40, 51, 385
- recreation 109, 396, 405, 414, 419
- recruitment 207, 236
- red fox 424
- red winged blackbird 146, 220
- Reduction 1
- refuse 95
- regeneration 51
- Regional conservation programs 26, 99, 148, 160, 176, 190, 237, 443
- regional surveys 314, 360, 361
- Regions 1
- regression analysis 357
- regrowth 344
- regulations 83, 94, 395, 408
- Relations to plants 355
- Remote Sensing 39, 254, 307
- remuneration 183
- rents 285
- replanting 33, 304, 305
- representative ecosystem examples 116
- reproduction 146, 172, 174, 175, 191, 195, 259
- Reproduction Biology 197, 253
- reproductive performance 205
- Reproductive productivity 195
- reproductive success 234
- reptiles 173
- research 18, 408, 453
- reserve 261
- reserved areas 332, 350, 391
- reserves 283, 396, 411
- residential areas 353
- residue management 30
- Resource conservation 33, 35, 83, 200, 238, 288, 299, 324, 325, 329, 396, 421, 442
- resource management 60, 407, 418, 419
- resource utilization 419
- Resources 14, 85
- Resources Management 85, 109
- respiration 23, 55, 57
- restoration 60, 75, 424
- restored grasslands 281
- retired acres 428
- return-to-crop production 53
- returns 406
- revegetation 80, 200, 238, 305, 325, 433, 442
- Revenue 312
- Revised Universal Soil Loss Equation 258
- revised universal soil loss equation (RUSLE) 49
- rice 2
- Right of property---United States 347
- Riley County 191, 272
- rill erosion 31
- ring necked pheasant 156, 170, 261
- ring necked pheasant (Galliformes) 122, 126
- riparian areas 63
- riparian floodplain 86
- risk 384
- Risk assessment 302, 392
- risk management 35
- risks 88
- river basins 73, 113
- rivers 73, 89, 95, 97
- Rock Creek 97
- rodents 361
- rolling plains 239
- rotational grazing 103, 423
- rotations 53, 101, 372, 373
- rowcrop field 129
- rowcrops 101
- runoff 58, 71, 74, 76, 81, 91, 317, 391, 421, 423, 445, 449
- runoff rates 98
- rural areas 240
- Rural Clean Water Program 97
- rural communities 299, 393
- rural development 353
- rural planning 277
- Rural population---Economic conditions 447
- RUSLE(C) 258
- sacramento valley 244
- Saline soils 104
- Salmo salar 267
- salsola iberica 280, 354
- sampling 259, 358, 375
- San Joaquin Valley 244
- satellite imagery 39
- Savannah sparrow 232
- schizachyrium scoparium 320
- Scolopacidae 424
- season 242
- season long grazing 423
- seasonal activities 242
- seasonal variation 111, 181, 242, 372, 373
- seasonality 126
- seasons 24, 242
- Sedge wren 232
- sediment 423
- Sediment control 451
- sediment load 73
- sediment pollution 441
- Sediment transport 306
- sedimentation 76
- seed banks 373
- seed output 373
- seedbed preparation 304
- seeding 150
- seedlings 80, 294, 309, 321
- seeds 38, 243
- selection criteria 266
- semiarid climate 344
- semiarid soils 52
- semiarid zones 45
- Sequestration 14, 17
- sheet erosion 31
- Shelby County 175

shorebirds 244
shrubs 238, 305
silt loam soil 29, 36
Silviculture 203, 326
simulated rainfall 58, 98
simulation models 49, 382, 391
Sink 3
Sinks 14
sisymbrium altissimum 280
Site selection 162, 228, 251
size 199
skunk 424
snow 120
snowfall 119
social benefits 8
social costs 27
Social effect 356
social impact 332, 412
social sciences 109
Socio Economic Factors 336
sociological aspects 274
Sodbuster 419
soil 9, 16, 23, 24, 29, 51, 64, 136, 366, 445, 449
soil amendments 450
soil and water conservation 283, 411, 428, 436
soil bacteria 42
Soil Bank program 284
soil biology 55
Soil Carbon 19
soil carbon pools 52
Soil Cations 17
Soil Change 17, 48
soil characteristics 281
soil chemical properties 28
soil chemistry 7, 53
soil compaction 423
Soil Conservation 7, 8, 9, 10, 21, 24, 25, 27, 31, 33, 35, 40, 41, 47, 49, 54, 56, 57, 58, 73, 74, 81, 87, 98, 100, 102, 105, 200, 213, 238, 268, 274, 299, 313, 324, 328, 329, 338, 380, 382, 391, 395, 397, 399, 402, 403, 410, 419, 420, 421, 423, 427, 429, 431, 433, 437, 439, 441, 442
Soil conservation---Economic aspects---United States 315
Soil conservation---Government policy---United States 139, 282
soil conservation: individual, site specific 6
Soil conservation---Law and legislation---United States 284
Soil conservation---Minnesota 351
Soil Conservation Service 451
Soil conservation---United States 22, 275, 383
Soil conservation---United States Legislation 11
soil degradation 57
soil enzymes 23
Soil Erosion 34, 46, 58, 73, 74, 84, 87, 98, 105, 107, 306, 307, 333, 337, 388, 395, 399, 405, 409, 427, 429, 430, 453
Soil erosion---Environmental aspects 11
Soil erosion---United States 22
soil fauna 23
soil fertility 13, 24, 29, 37, 45, 52, 53, 54, 55, 136, 360, 445
soil flora 9, 23, 42, 47, 100
soil management 2, 9, 18, 23, 25, 32, 41, 42, 50, 57, 406, 439
Soil Nitrogen 17
soil nitrogen pools 52
soil organic matter 10, 19, 23, 28, 29, 37, 39, 43, 45, 47, 52, 53, 54, 55, 57, 100
soil ph 23, 28, 54, 57, 360
Soil Phosphorus 17
soil physical 28
soil physical properties 46
soil pollution 90
Soil Properties 1, 56, 58, 98, 307, 445
soil quality 24, 38, 42, 58, 98, 317, 445
soil respiration 23
soil science 16
Soil stabilization 451
soil storage 48
soil structure 55, 449
soil surveys 39
soil technology 48
soil temperature 36
soil texture 39
soil types 16, 18, 36
soil water 53, 101
soil water content 358, 398
soils 44, 273, 413
Songbirds 124
sorghastrum nutans 322
sorghum bicolor 39, 364, 398
Sources and fate of pollution 75
South central Minnesota 151
south central states of USA 420, 441
South Dakota 49, 57, 64, 100, 143, 170, 172, 180, 186, 190, 205, 207, 230, 241, 242, 300, 449
South Dakota: Butte County 154
south eastern states of USA 342, 420, 441
South Platte River Basin 113
Southeast Nebraska 234
southeastern states of USA 183
southern plains states of USA 5, 29, 238, 299, 305, 323, 324, 325, 329, 331, 442
southwestern Saskatchewan 20
sowing 304
sown grasslands 446
soybeans 382, 406
sparrows 175, 212
spatial distribution 28, 113, 358
spatial variation 331
species 220, 222
species abundance 122, 126, 129, 174, 252, 350
species composition 122, 198, 216, 350
species diversity 113, 120, 146, 175, 181, 204, 209, 216, 220, 246, 259, 301, 327, 330, 333, 350, 373, 375

- Species interactions: general** 177
- species richness** 168, 246, 252, 330
- specific enzyme activities** 30
- Spermatophytes** 48
- Spiza americana** 146, 174, 215, 272
- Spiza americana [dickcissel] (Passeriformes)** 129
- Spiza americana (Passeriformes)** 126
- Spizella arborea (Passeriformes)** 126
- Spizella breweri** 154
- Spizella pusilla** 146
- stand characteristics** 276
- stand density** 294, 326
- stand establishment** 294
- Standards, laws, regulations and policy** 413
- State advisory committees** 377
- State conservation programs** 26, 65, 110, 121, 123, 145, 157, 161, 186, 190, 230, 241, 257, 269, 404, 426, 443, 454
- state government** 283, 312, 386, 411
- state policies** 107
- state programs** 365
- State technical committees** 377
- statistical analysis** 72, 76
- statistics** 143, 146, 156, 175, 259, 263
- status** 261, 272
- stewardship schemes** 116
- Stock assessment and management** 109
- stocking rate** 103, 320, 338
- Storage** 3, 19
- stormwater runoff** 74
- Streak** 341
- Stream erosion** 429
- Streamflow and runoff** 98
- streams** 73
- Strip mines** 451
- Stripe** 341
- Structural timber** 312
- Sturnella (Icteridae)** 151
- Sturnella magna** 146, 162, 272
- Sturnella neglecta** 220
- Sturnella spp. (Passeriformes)** 126
- subsidies** 35, 382, 453
- success** 158
- succession** 154, 216
- sulfometuron** 309
- summer** 261
- sunflowers** 30
- support measures** 403, 408
- surface layers** 39
- Surface Mining Control Act** 451
- surface roughness** 423
- surface water** 96, 297
- survey methods** 156
- surveys** 28, 224, 261, 332, 337, 356, 377, 378, 384
- survival** 28, 156, 191, 199, 233, 245, 251, 276, 279, 294, 321, 340, 355
- Susceptibility & virus multiplication** 341
- suspended sediment** 72
- suspended sediments** 73
- sustainability** 37, 55, 60, 412
- Swampbuster** 419
- Swamps** 94
- swift fox** 199
- Switchgrass** 19, 245
- switchgrass (Panicum virgatum)** 227
- Tables Data** 1, 152, 437
- tallgrass prairie** 281
- Tapesia yallundae** 341
- tax concessions** 116
- taxpayers mixed integer programming models** 27
- Technical assistance** 434
- techniques** 212
- Techniques of planning** 56
- telemetry** 242
- temporal support** 116
- temporal variation** 331
- terrestrial ecology** 252
- Terrestrial habitat** 195
- territory** 154
- Texas** 32, 87, 138, 153, 173, 180, 199, 216, 220, 222, 236, 239, 257, 279, 283, 328, 340, 345, 398
- Texas High Plains** 135
- Texas horned lizard** 173
- Texas, Northwestern** 236
- Texas, Southern** 220
- Theses** 203
- thickness** 39
- thinning** 326
- Thinopyrum intermedium** 341
- Thinopyrum ponticum** 341
- three forks, Montana** 353
- tillage** 2, 7, 13, 18, 30, 32, 36, 45, 50, 53, 54, 55, 57, 58, 98, 345, 364, 372, 373, 398, 406, 425
- tillage effects** 75
- tillering** 320
- timing** 73
- Toxicity** 451
- transect survey** 150, 156
- transect surveys** 156
- transport** 322
- travel distance** 202
- trees** 46, 238, 289, 365
- Trees Plants** 437
- trends** 1, 4, 37, 450
- tributaries** 34
- trifolium pratense** 303
- tripsacum dactyloides** 322
- Triticum** 2, 29
- triticum aestivum** 2, 13, 39, 45, 53, 198, 344, 345, 350, 398, 445
- Tulare Basin** 244
- Turnover** 17
- Twin Falls County** 97
- Tympanuchus cupido** 214
- Tympanuchus cupido pinnatus** 248

- U.S. Department of Agriculture** 405, 434
ultisols 13
uncertainty analysis 20
United States 1, 2, 8, 12, 16, 18, 21, 24, 25, 28, 29, 35, 36, 43, 55, 57, 64, 71, 75, 76, 80, 84, 93, 96, 97, 98, 106, 109, 113, 115, 133, 140, 141, 142, 143, 144, 146, 150, 153, 154, 155, 156, 162, 163, 168, 173, 174, 175, 188, 191, 194, 195, 198, 207, 209, 211, 212, 213, 215, 216, 217, 219, 220, 221, 223, 226, 228, 229, 231, 232, 236, 242, 243, 250, 255, 259, 261, 262, 263, 264, 265, 266, 272, 277, 283, 292, 306, 310, 311, 317, 322, 331, 341, 349, 357, 359, 362, 381, 384, 386, 389, 391, 393, 397, 400, 404, 408, 411, 414, 419, 421, 428, 435, 436, 443, 444
United States---Agricultural policy 383, 447
United States---Agricultural policy---Environmental aspects 22
United States---Agricultural policy---Legislation 11
United States agriculture: conservation practices 6
United States, Colorado 7, 51
United States Department of Agriculture 377
United States---Environmental policy 11, 22, 363
United States---Environmental policy---Legislation 415
United States, Erie L 34
United States---Federal---Agriculture Improvement and Reform Act of 1996 302
United States government 378
United States, Great Plains 333
United States, Illinois 107
United States, Illinois, Cache R. Basin 73
United States, Illinois, Cache River 73
United States, Illinois, Pittsfield Lake 107
United States, Iowa 385
United States, Kansas 56, 261
United States, Kansas, Finney County 307
United States, Maumee River 34
United States, Midwest 74
United States, Minnesota 82, 214, 233, 385
United States, Montana 251
United States, North Dakota 233, 330
United States, Ohio, Maumee River 34
United States, Ohio, Sandusky River 34
United States Soil conservation service 380
United States, South Dakota 233, 385
United States, Southeastern 142
United States, Vermont, LaPlatte River 91
United States, Wyoming 40
universal soil loss equation 49
unsaturated soils 50
Upland Nesting 143
upland sandpiper 272, 424
upland wildlife habitat 211
uplands 86
Urban and regional technology and development 312
Urban and regional technology and development Regional administration and planning 396
Urban & Regional Planning 182
Urbanization 77
USA 15, 31, 58, 274
USDA 66, 81, 329, 378, 382, 386, 419
USDA Forest Service 365
use efficiency 101
utilization 150, 242
valuation 255, 405, 414
Value 405
Vascular Plants 48
vegetation 64, 75, 115, 135, 150, 166, 170, 175, 191, 229, 245, 246, 250, 253, 259, 261, 263, 273, 300, 333, 385, 398, 423, 427
vegetation changes 15
vegetation composition 281
Vegetation cover 75
Vegetation Effects 82
Vegetation establishment 451
vegetation management 294
vegetation regrowth 73
vegetation structure 126
vegetation types 38, 323
vegetational structure 129
vegetative filter strips 90
Vermont 71
Vermont Farmland Conservation Program 422
vertebrate pests 224
Vertebrates 119, 122, 126, 130, 149, 151, 165, 195, 202, 211, 234, 252, 255
Virginia 188, 269
vocalization 154
volume 294
Vulnerability 94
Vulpes velox 199
Vulpes vulpes 424
warm season 170
Washington 23, 26, 27, 42, 65, 280, 341, 354
Waste capping 451
waste water treatment 95
Water and plants 385
water composition and quality 411, 428
Water conservation 34, 83, 430
water erosion 32, 49, 297, 391, 423, 429, 449
Water Erosion Prediction Project 90, 391
water erosion prediction project (WEPP) 49
Water law and institutions 109, 395, 453
Water levels 75
Water Management 77
water policy 78, 95, 104
water pollution 78, 90, 95, 317
Water pollution control 34, 274, 306, 453
Water Pollution: Monitoring, Control & Remediation 34
Water Pollution Sources 75

Subject Index

- water quality** 21, 34, 61, 66, 71, 72, 73, 75, 78, 79, 81, 84, 88, 95, 101, 105, 271, 297, 317, 378, 387, 388, 395, 406, 414, 418, 430, 437
- Water quality control** 34, 76, 88, 104, 306, 451, 453
- Water Quality Incentives Program (WQIP)** 66
- water quality management** 439
- Water quality management---Economic aspects---North Dakota** 286
- Water quality management---Economic aspects---United States** 394
- Water quality management---United States** 59
- Water relations** 82
- Water reservoirs** 77
- Water resources** 77
- Water Resources and Supplies** 85
- Water resources management** 104
- water stress** 398
- water use** 249
- water use efficiency** 101
- Water Yield** 82
- waterfowl** 143, 244, 260
- Waterfowl Production Areas** 143
- watershed** 227
- Watershed Management** 7, 72, 77, 82
- Watershed protection** 7, 10, 25, 34, 41, 46, 73, 74, 102, 274, 307, 333, 387, 395, 399, 439, 451, 453
- watersheds** 66, 71, 91, 107, 295, 308, 317, 430, 450
- waterways** 102
- weather** 2, 5, 119
- weather data** 128
- WEE** 391
- weed control** 327, 339, 364, 368, 370, 373
- weeds** 300, 361, 372, 373
- Weeds---Control---United States** 371
- WEPP** 391
- West** 29, 331
- Western** 25
- western Kansas** 199
- western meadowlark** 220
- western region** 261
- western states of USA** 47
- Wetland agriculture** 137
- Wetland conservation** 108
- Wetland conservation---Minnesota** 351
- wetland conservation provision** 83
- Wetland conservation---United States** 62, 275
- Wetland construction** 451
- Wetland mitigation banking---Minnesota** 351
- Wetland Reserve Program** 63, 68
- Wetland Reserve Program [WRP]** 201
- wetland restoration** 86
- wetland soils** 64
- wetlands** 63, 64, 75, 83, 96, 108, 109, 244, 260, 271, 311, 321, 330, 385, 419, 420, 436, 453
- Wetlands---Conservation---Legislation** 415
- Wetlands Reserve Program** 109, 249
- wheat** 2, 29, 54, 246, 382, 450
- Wheat germ** 341
- wheat (Gramineae)** 48
- wheat soils** 23, 52, 445
- Wheat streak mosaic virus** 341
- white tailed deer** 242
- Whitman County, Washington** 27
- wild animals** 111
- wild birds** 146, 174, 181, 204, 220, 222, 247, 272
- wildlife** 142, 146, 155, 156, 166, 174, 180, 188, 193, 200, 203, 204, 209, 212, 219, 220, 227, 235, 236, 238, 239, 242, 250, 258, 261, 266, 272, 289, 327, 337, 356, 378, 396, 402, 405, 407, 414, 419, 430, 437
- wildlife conservation** 80, 109, 112, 118, 146, 167, 174, 181, 201, 204, 223, 240, 274, 283, 416
- Wildlife conservation---Nebraska** 179
- Wildlife conservation---United States** 139
- Wildlife conservation---United States---North Dakota** 447
- wildlife density** 171
- wildlife distribution** 210
- wildlife enhancement bonus programs** 203
- Wildlife Habitat** 86, 254
- Wildlife habitat improvement---United States** 137, 287, 394
- Wildlife Habitat Incentives Program [WHIP]** 201, 267
- wildlife habitat relationships** 146, 156, 175
- wildlife habitats** 63, 68, 113, 114, 196, 208, 256, 260, 267, 270, 271, 416, 439, 453
- wildlife management** 109, 113, 114, 119, 126, 187, 196, 197, 207, 208, 213, 214, 234, 239, 260, 265, 267, 268, 270, 416, 446
- wildlife management: future needs, history, status** 201
- Wildlife management---Nebraska** 179
- wildlife refuges** 249
- wildlife responses** 201
- willet** 424
- Wilson's phalarope** 424
- wind erosion** 8, 31, 32, 297, 429
- Wind Erosion Equation** 391
- windbreaks** 223, 298
- winter** 122, 243, 261, 279
- winter wheat** 246, 445
- Wiregrass Savannas** 17
- Wisconsin** 19
- Wood Fuels** 336
- woodlands** 4
- woody plant invasion** 229
- woody plants** 223, 283
- Wyoming** 52, 304, 370
- Yield** 1
- zea mays** 2, 36, 39, 92, 101, 364, 372
- Zenaida macroura** 191
- Zoology** 203