

Subject Index

- 1980 Groundwater Management Act 7
- 1995 Farm Bill 193
- 319 National Monitoring Program 266
- abandoned fields: reclamation 177
- acid mine drainage 364
- acreage 361
- acreage enrollment 361
- action thresholds 224
- adaptation 162
- adoption 10, 311
- adoption insurance program 349
- advanced irrigation technologies 343
- advisory support 57
- aesthetic appreciation 374
- aesthetics 221
- afforestation 94, 117, 257
- AFOs 251
- age 18
- age effects 177
- agri environmental management 177
- agri environmental measures: farm income, subsidies 206
- agri environmental policy 301
- agri-environmental schemes 156
- agrichemical use 337
- agricultural chemicals 82, 213, 273, 281
- Agricultural chemicals---Environmental aspects---United States 22**
- Agricultural conservation---Australia---New South Wales 241**
- Agricultural conservation---Great Britain 211**
- Agricultural Conservation Program---North Dakota 192**
- Agricultural conservation---United States 58**
- agricultural drainage and pesticide transport model 121
- agricultural economics 251
- agricultural education 362, 372
- Agricultural & general applied entomology 218**
- agricultural households 26
- Agricultural innovations---Economic aspects---United States 133**
- Agricultural innovations---Government policy---United States 133**
- agricultural intensity 34
- agricultural land 36, 40, 50, 52, 87, 117, 128, 183, 234, 236, 257, 364
- agricultural landscape planning 365
- Agricultural pests---Integrated control---United States 14**
- Agricultural pests---Integrated control---United States---Technological innovations 17**
- Agricultural policy 26, 76, 130, 146, 157, 181, 199, 203, 267, 312, 318, 321, 349, 362, 363, 372**
- Agricultural pollution 53, 81, 109, 202, 213**
- Agricultural pollution---Economic aspects---United States 133**
- Agricultural pollution---Government policy---United States 133**
- Agricultural pollution---United States 113**
- agricultural practices 47, 53, 69, 88, 101, 159, 178, 205, 218, 253, 284, 357, 371**
- agricultural production 11, 23, 49, 60, 112, 116, 125, 130, 216, 240, 250, 307, 322**
- agricultural production practices 355**
- agricultural programs and projects 87**
- agricultural regions 50**
- agricultural research 85, 166, 320**
- agricultural resource management 249**
- Agricultural Runoff 24, 66, 69, 95, 234, 255**
- agricultural soils 198**
- Agricultural subsidies---United States 25**
- agricultural sustainability 56**
- agricultural technology: small holder adoption 340**
- agricultural wastes 330**
- agricultural water management 6**
- agricultural watershed: increasing forest cover 374**
- Agricultural Watersheds 109, 255, 315**
- agriculture 1, 29, 47, 53, 59, 62, 73, 79, 81, 96, 101, 102, 105, 109, 129, 147, 155, 160, 163, 175, 178, 193, 197, 201, 202, 213, 221, 228, 234, 284, 290, 295, 298, 303, 321, 353, 357, 365**
- Agriculture and state---United States 22, 25**
- Agriculture---Environmental aspects---United States 25**
- Agriculture---Florida---Everglades 187**
- agriculture: technology adoption 343**
- agro landscape values 221**
- agro rural watershed 220**
- agrochemicals 9, 53, 213**
- agroecosystems: agriculture society interface 206**
- agroforestry 237, 317**
- agroforestry adoption determinants 340**
- agroforestry adoption studies 340**
- agroforestry systems 237, 317**
- agronomy 110, 201, 222, 228, 298, 348**
- Agronomy (Agriculture) 20, 331**
- Alabama 36, 146**
- Alberta 275**
- alternative farming 106, 339**
- alternative techniques implementation 224**
- alternative versus conventional cropping systems 106**
- anaerobic digestion 27**
- Angiospermae (Angiospermae) 331, 337**

- angiosperms** 57, 97, 102, 108, 110, 114, 115, 124, 172, 196, 203, 224, 273, 282, 331, 335, 337, 347
- animal feeding operations** 251
- animal manure management** 251
- animal manures** 27, 251
- animal production** 219
- animal wastes** 242, 243, 270
- Animals** 23, 28, 32, 34, 37, 44, 57, 74, 79, 137, 141, 174, 175, 177, 185, 190, 224, 269, 273, 291, 328, 335, 355
- Appalachian States of USA** 131, 216, 302
- apples** 260
- application** 172
- application date** 349
- application rates** 50, 68, 97, 115, 120, 151, 153, 209, 272, 302, 345
- application to land** 231, 270
- Applied economics** 96
- appropriation** 33
- Aquatic birds** 47
- aquatic ecosystems** 127
- Aquatic environment** 127
- aquatic habitat** 364
- aquifers** 98, 244, 367
- Arid environments** 290
- arid zones** 111
- Arizona** 7, 168, 274
- Arkansas---Environmental policy** 352
- arthropod (Arthropoda Unspecified)** 190
- Arthropoda (Arthropoda Unspecified)** 190
- arthropods** 190, 224, 269, 273
- assessment** 148, 281, 311
- Assessments** 205
- atrazine** 256
- attitude** 44
- attitudes** 33, 39, 43, 64, 81, 141, 150, 159, 163, 177, 178, 204, 213, 229, 242, 255, 285, 288, 304, 358, 367, 371, 373
- Australia** 160, 171
- automatic irrigation systems** 176
- automation** 176
- Automobiles---Motors---Exhaust gas---
Environmental aspects---United States** 132
- Avena sativa [oat] (Gramineae): grain crop** 282
- Aves** 47
- Aves (Aves Unspecified)** 137
- bacterial pollution** 74
- band placement** 148, 149
- barriers to innovation adoption** 171
- Bayesian theory** 260
- Behavior** 44, 160, 201
- Behavior and fate characteristics** 213
- behavioral economics** 261
- behaviour** 115, 358
- Belgian agri environmental management** 157
- bench systems** 336
- beneficial use** 33
- Benefits** 101
- best management practices** 32, 46, 81, 88, 148, 155, 161, 178, 194, 197, 228, 242, 256, 266, 315, 357, 362, 364
- best nitrogen management plan** 349
- biobusiness** 102, 110, 190, 221, 348, 365
- biodiversity** 21, 43, 210, 332, 364
- biodiversity decline** 44
- biodiversity management** 199
- biogas** 27
- biological control** 190
- biological control agent** 190
- biophysical models** 116
- biotechnological advances** 343
- biotechnology** 77
- biotope diversity** 221
- bird (Aves)** 37
- bird conservation: behavioral intentions, farmer attitudes** 37
- birds** 23, 37, 47, 137
- BMPs** 266, 362, 364
- Breeding sites** 47
- British Isles** 63, 208, 215, 217, 229, 271, 358, 370
- brush control** 283, 290
- Buffers** 95
- businesses** 336
- CAFOs** 251
- California** 48, 61, 104, 135, 142, 164, 195, 198, 199, 230, 260
- Canada** 111, 128, 152, 160, 237, 257, 273, 308, 309, 341
- capsicum annum** 46
- carbon sequestration** 94
- case based reasoning methods** 356
- Case Studies** 24, 73, 74, 81, 103, 150, 162, 183, 204, 208, 217, 252, 287, 312, 364, 369
- Case study** 73, 204, 217
- Catchment area** 81, 109
- Catchment areas** 178, 248
- catchment hydrology** 243, 310
- catchment management** 350
- Catchments** 178
- cattle** 74
- cattle feeding** 75
- cattle manure** 75, 359, 372
- change** 148, 278
- Charges** 346
- chemical transport model** 120
- Chesapeake Bay** 251
- Chesapeake Farms** 53
- Chippewa River Watershed** 121
- chloride** 46
- chlorophyll** 272
- chlorophyll meter** 272
- choice** 228
- choice contingent valuation** 65
- Chordates** 23, 28, 32, 34, 37, 44, 57, 79, 137, 141, 174, 175, 177, 185, 291, 328, 335, 355
- citizen participation** 24, 364

- citrus** 230
- classification** 164
- clay soils** 152
- Clean Water Act** 193, 251, 364
- climate** 60
- climatic change** 257
- climatic factors** 166
- coastal areas** 39
- coastal plains** 70
- Coastal zone management** 95
- Coastal Zone Management Act** 193
- color** 272
- Colorado** 244, 367
- Columbia Basin area of USA** 169
- commodity programs** 312
- Common Agricultural Policy [CAP]** 57
- common property** 210
- common property resources** 307
- communication** 43, 81
- Communications** 81
- community education** 350
- community involvement** 5, 304, 366
- community participation** 177
- Comparative studies** 346
- Comparison Studies** 159, 346
- comparisons** 77, 106, 165, 278
- Compliance** 81, 255, 371
- composting** 330
- computer applications** 284
- computer simulation** 121
- concentrated animal feeding operations** 251
- conceptual models** 42
- confidence intervals** 65
- conservation** 1, 20, 44, 47, 49, 50, 56, 59, 69, 101, 123, 146, 147, 156, 175, 200, 205, 221, 222, 229, 247, 253, 273, 301, 318, 331, 332, 334, 337, 342, 358, 365
- conservation areas** 64
- conservation attitudes** 34
- conservation behavior** 141
- Conservation easements---United States** 294
- Conservation in agricultural use** 88, 101, 163, 205, 207, 288, 334, 346
- Conservation of natural resources---Citizen participation** 239
- Conservation of natural resources---Florida** 264
- conservation policies** 129
- conservation policy** 174
- conservation practices** 9, 201, 351
- conservation program** 247
- conservation programs** 87
- Conservation Reserve Enhancement Program** 31, 93, 236, 277, 333
- Conservation Reserve Program** 1, 30, 67, 72, 123, 158, 265, 299, 361
- Conservation Reserve Program---United States** 58, 192
- conservation tillage** 60, 61, 86, 107, 110, 111, 125, 129, 134, 152, 232, 246, 296
- conservation tillage adoption decision** 222
- conservation tillage system** 348
- Conservation, wildlife management and recreation** 47, 73
- constraints** 43, 112, 136, 148, 152, 269, 308
- construction** 373
- contingent valuation** 65, 228
- Continuous CRP** 299
- continuous replacement** 20
- contour hedgerows** 340
- contracts** 162, 301
- control** 111, 136, 269, 273
- controversial practice adoption** 20
- conventional farming** 175, 339
- conventional tillage system** 348
- conversion** 373
- coolwater stream** 121
- cooperation** 39
- Corn** 66
- Corn Belt** 371
- Corn Belt States of USA** 131, 145, 252, 262, 281, 292, 296, 312, 325, 329, 338, 339
- corn (Gramineae)** 114
- corn production** 125, 222
- cost** 62
- Cost allocation, cost sharing, pricing** 143, 346
- cost analysis** 69, 90, 95, 144, 161, 207, 283, 284
- cost benefit analysis** 101, 107, 111, 143, 167, 189, 254, 290, 336
- Cost effectiveness** 58, 143
- cost share** 155
- Cost Sharing** 161
- costs** 101, 109, 172, 173, 209, 227, 263, 284, 303, 307, 353
- cotton** 7
- cover crops** 71, 246
- cows** 27
- crop (Angiospermae)** 102, 110
- crop enterprises** 90, 323, 368
- crop management** 12, 16, 46, 50, 166, 179, 272, 286, 319, 368
- crop mixtures** 312
- crop production** 12, 70, 77, 144, 216, 219, 230, 234, 271, 288, 316, 336, 360, 368
- crop residues** 111
- crop residues maintenance** 177
- crop rotation** 331
- crop yield** 9, 16, 46, 70, 102, 250, 316, 323
- cropland** 1, 114, 123, 371
- croplands** 23
- cropping system risk** 347
- cropping systems** 16, 106, 124, 216, 302, 368
- Crops** 198, 234, 269
- cucurbit (Cucurbitaceae): vegetable crop** 224
- cucurbit growers** 224
- cultivars** 16, 272
- Cultivated Lands** 234
- cultivation** 216
- cultivation type** 174

cultural behavior 165
cultural contexts 328
cultural control 269
cultural factors 341
cultural methods 269, 360
current practices 224
current recommended practices 350
Dairy cattle---Manure---Handling---New York State 89
dairy farming 74, 201, 359, 372
dairy farms 75, 176, 359, 372
Darby Creek 205
Darwinian evolution 42
data analysis 289, 316
data collection 15, 76, 287
data collection method 28
databases 76
decision 201
decision analysis 349
Decision Making 5, 8, 13, 30, 49, 50, 74, 77, 82, 90, 112, 117, 142, 144, 146, 148, 149, 150, 159, 164, 178, 179, 181, 182, 183, 196, 198, 214, 217, 230, 234, 235, 236, 259, 260, 262, 267, 270, 271, 272, 273, 276, 278, 280, 283, 286, 289, 295, 304, 308, 312, 313, 314, 322, 323, 329, 336, 341, 349, 351, 361, 366, 369
decision making behavior 156
Decision making---Environmental aspects 126
Decision making---Ethics 126
Decision making---Moral and ethical aspects 78
decision making processes 141
decision support systems 24
Decision theory 178, 217
deficiency payments 312
deficit irrigation 46
Degradation 101
Delaware 87
demand 144, 227
demography 5, 38, 64
demonstration farms 311
Denmark 183, 304
desert riparian landscapes: change, values 80
determination 179
developing countries 307
development 325
diagnostic techniques 272
dicots 108, 114, 224, 282, 347
diffusion of information 40, 165, 182, 208, 275, 287, 289, 320
discrete choice models 230
discrete continuous choice model 361
diseases 269
disincentives 280
diversification 201, 312
diversification activities 34
double cropping 368
drainage 164, 166, 274
drainage water 104
drinking water 172, 213
Drip Irrigation 288
drought 166, 204
Droughts 204
dry farming 144, 219
durum wheat (Gramineae) 110
dwarf cultivars 16
dynamic models 90, 259, 276
easements 1, 123
ebb and flow systems 336
eco coherence 221
ecological balance 322
Ecological impact of water development 234
ecological integration 219
ecological restoration 364
ecology 290, 303
econometric models 9, 87, 361
economic 224
economic analysis 9, 94, 96, 106, 109, 117, 200, 246, 257, 317, 349, 362, 368
economic aspects 96, 101, 109, 123, 161, 290, 315, 346, 357
economic attitudes 23
economic compensation 177
economic evaluation 27, 111, 306, 316
economic factors 102
economic framework 32, 340
economic impact 8, 50, 90, 171, 203, 204, 252, 307, 319, 329
economic incentives 116
economic integration 219
economic losses 129
economic motivations 374
economic policy 199
economics 27, 53, 69, 73, 96, 98, 101, 110, 196, 204, 225, 228, 233, 248, 253, 271, 284, 295, 298, 321, 337, 346, 348
ecosystem disturbance 1, 213, 284
Ecosystem management 47, 83
ecosystem recovery 223
ecosystems 4, 39, 303, 306, 317
ecotoxicology 129
education 18, 32, 44, 49, 56, 61, 88, 127, 129, 134, 159, 160, 190, 273, 274, 338
Education extramural 88
educational meetings 224
educational programs 165
effects 10
efficiency 97, 201, 263, 342
elasticities 230
electricity 27
endangered species 21
energy 207
energy sources 27
enforcement 371
enforcement capabilities 32
England 229, 358
environment 130, 136, 358
Environment management 53, 109, 160, 234, 290, 357

- environment protection** 374
Environmental action 1, 53, 66, 73, 81, 101, 160, 163, 213, 234, 284, 290, 357
Environmental Advocacy, Education and Awareness 127
environmental assessment 128
environmental attitudes 57, 175
environmental awareness 185
environmental degradation 35, 129, 220, 273, 303, 359
Environmental economics 66, 234, 290
environmental education 362
Environmental effects 73, 109, 202, 207
Environmental engineering 126
environmental factors 172, 271, 322
environmental impact 1, 35, 50, 53, 60, 106, 109, 116, 125, 144, 183, 196, 199, 202, 213, 243, 271, 281, 308, 329
environmental impact assessment 147
environmental implications 129
Environmental information 163
Environmental legislation 48, 73, 129
environmental management 4, 39, 49, 124, 130, 200, 229, 267, 297, 308, 336
environmental management change 201
environmental monitoring 266
environmental perception 29
environmental performance change 201
environmental performance measures 34
Environmental Policy 12, 24, 49, 66, 69, 73, 75, 86, 130, 131, 134, 136, 146, 181, 217, 234, 236, 263, 267, 269, 293, 296, 301, 315, 318, 372
environmental protection 21, 26, 43, 47, 49, 51, 53, 81, 101, 120, 121, 122, 148, 162, 165, 171, 188, 200, 210, 213, 270, 284, 293, 304, 318, 359, 363, 364, 372
Environmental Protection Agency 24
Environmental protection---United States 132
Environmental protection---United States---Management 132
Environmental quality 66, 157, 213
environmental restoration 284
Environmentally Sensitive Area 34
environmentally sensitive areas program 301
environmentally sensitive areas scheme 156
EPA 24
epic pst crop growth 120
epistemology of validation process 365
EQIP 228
equations 70, 144, 349
Equilibrium---Economics 133
equipment 173
erosion 18, 36, 50, 100, 111, 124, 181, 247, 295, 332, 353
erosion control 29, 71, 95, 109, 117, 135, 255, 364
ERS 251
ESA Management Agreement [Environmentally Sensitive Area Management Agreement] 34
ESA scheme 156
estuaries 364, 366
ethical accounting 3
ethical matrix 3
ethics 43, 44, 221, 304
ethnic groups 135
ethnicity 36, 135, 165
Europe 63, 171, 173, 183, 186, 200, 208, 215, 229, 271, 304, 358, 370
eutrophication 178, 250, 258
evaluation 35, 106, 134, 138, 287, 320, 375
Evaluation process 73, 96, 159, 204, 213, 255, 284
Evolution 160
expected value variance analysis 349
extension 49, 71, 122, 153, 171, 208, 246, 338
extension education 335
extension programs 190
external costs 144
externalities 48, 121
factor analysis 176, 248, 341
family factors 159
Farm*A*Syst 160
farm comparisons 164, 342
farm environmental improvement 34
farm income 16, 119, 121, 130, 252, 267, 283, 296, 318, 323
farm inputs 16, 144, 164, 307, 360
farm machinery 276
farm management 7, 13, 15, 26, 50, 51, 70, 74, 88, 90, 116, 121, 144, 146, 148, 153, 162, 164, 182, 194, 200, 209, 235, 259, 260, 270, 278, 287, 312, 314, 318, 332, 341, 345, 358, 363
Farm management---Australia---New South Wales 241
farm results 349
farm size 34, 71, 77, 152, 323, 339
farm strategies 201
farm structure 12, 68, 165, 339
farm structures 177
farm surveys 13, 15, 26, 51, 77, 82, 86, 154, 167, 275, 283, 301, 342, 359, 361, 372
farmer 175
farmer adoption 228
farmer characteristics 201
farmer participation 156, 157
farmer's participation associated influences 157
farmer surveys 9
farmers 18, 51, 63, 79, 85, 100, 112, 124, 130, 135, 136, 138, 149, 165, 169, 172, 182, 196, 203, 227, 271, 278, 289, 300, 304, 305, 311, 313, 317, 320, 329, 358, 369
farmers' associations 169

- farmers' attitudes** 8, 12, 13, 18, 26, 30, 38, 40, 46, 49, 63, 67, 71, 82, 86, 97, 98, 100, 112, 115, 128, 131, 135, 137, 138, 145, 146, 148, 151, 152, 153, 154, 165, 166, 167, 168, 169, 171, 172, 173, 176, 179, 183, 184, 186, 194, 195, 209, 213, 215, 226, 229, 231, 237, 240, 244, 250, 263, 269, 270, 273, 274, 276, 280, 281, 287, 289, 301, 302, 308, 309, 317, 318, 321, 322, 325, 330, 332, 338, 339, 342, 345, 353, 358, 359, 360, 370, 372, 375
- Farmers---United States---Attitudes** 54, 55
- farming** 159, 220, 290, 304, 322, 327, 334, 339
- farming attitudes** 175
- farming practices: environmental impact** 185
- farming systems** 10, 26, 38, 116, 162, 165, 166, 186, 214, 219, 278, 312, 317, 322, 323, 324, 351
- farmland** 235
- farmland loss** 87
- farmland management** 174
- farmland preservation** 87
- Farms** 1, 66, 71, 101, 109, 123, 163, 213, 217, 234, 285, 288, 315
- Farms and farming** 217
- Federal Agriculture Improvement and Reform Act of 1996 [FAIR of 1996]** 92
- federal government** 118
- federal programs** 30, 64, 67, 119, 209, 236, 312, 318, 361
- fertilization** 125
- fertilizer application** 91
- fertilizer requirement determination** 97, 151, 272
- fertilizers** 11, 16, 68, 97, 107, 115, 136, 151, 202, 250, 269, 302, 329, 345, 357, 360
- field crops** 46, 104, 116
- field operations** 360
- field size** 198
- filter strip program** 361
- finance** 215, 262, 346
- financial assistance** 129
- financial subsidies** 177
- Fish and Wildlife Service** 24
- fisheries** 121
- flood benches** 336
- flood control** 186
- flood floor systems** 336
- flooding** 166
- floodplain management** 364
- floods** 186
- Florida** 261
- follow the technology approach [FTT approach]** 42
- food production** 191, 240
- food safety** 281
- food security** 240
- Forest conservation---Economic aspects---Washington State** 45
- Forest conservation---United States---Arkansas** 352
- forest fires** 65
- Forest landowners---Washington State** 45
- forest landscape** 65
- forest management** 39, 94, 103, 150, 292
- forest management practice acceptability** 3
- forest plantations** 257
- forest policy** 215
- Forest policy---Washington State** 45
- forest recreation** 103
- forest soils** 94
- forestry technology: small holder adoption** 340
- forests** 36, 39, 94, 103, 150, 184
- forming** 205
- framework for the evaluation of sustainable land management** 105
- France** 173, 186
- Franklin Parish, Louisiana** 119
- Freshwater** 284, 290
- Freshwater pollution** 69, 178, 202
- fuel consumption** 173
- furrow irrigation** 46
- game animals** 283
- General Environmental Engineering** 127, 217, 290
- genetic engineering** 77
- geographical information systems** 287
- geographical variation** 5
- Georgia** 70
- global climate change** 191
- global food demand** 147
- Glycine ()** 124, 172, 196
- glycine max** 77, 172, 353
- Glycine max [soybean] (Leguminosae): oil crop** 108
- goals** 201
- government** 130
- government agencies** 24
- Government and Law** 20
- government organizations** 118
- Government policies** 66, 284
- Government policy** 127, 234, 253, 284, 296
- governmental interrelations** 123
- governmental programs and projects** 24, 87, 266, 364
- Governments** 127
- grassland** 223
- grasslands** 36, 153
- grazing** 189, 229
- Great Plains States of USA** 97, 124, 173, 244
- green manures** 246
- green revolution** 16
- greenhouse culture** 336
- greenhouses** 57
- ground water conservation** 343
- ground water leaching** 114
- groundwater** 73, 124, 145, 172, 244, 252, 281, 304, 344, 363, 367
- groundwater contamination** 202

- Groundwater---Illinois---Central Region---Quality**
139
- Groundwater Irrigation** 73
- groundwater management** 33, 73, 367
- groundwater pollution** 1, 46, 202, 324
- Groundwater---Pollution---Economic aspects---
United States** 22
- groundwater quality goals** 297
- groundwater recharge** 1, 123
- group process** 266
- growers** 195, 360
- growing season** 349
- growth** 303
- Grus canadensis tabida [greater sandhill crane]
(Gruiformes)** 23
- guidelines** 63
- guiding model** 365
- Gulf of Mexico** 15
- Gum Creek Watershed** 70
- Habitat** 47
- Habitat changes** 47
- habitat destruction** 174
- habitat restoration** 174
- habitats** 21, 188
- hands off management approach** 374
- hard red spring** 110
- hard science** 42
- harvesting** 71, 188, 360
- hazardous analysis and critical control points
techniques** 197
- health** 281
- health hazards** 82
- hedgerow** 174
- hedges** 141
- herbicide** 102
- herbicide residues** 256
- herbicide: treatment recommendations** 297
- herbicides** 11, 148, 196
- herbicides: herbicide** 185
- high yielding varieties** 16
- hillside regions** 327
- Historical account** 73
- history** 223
- Home*A*Syst** 160
- Hominidae (Hominidae)** 137, 335
- Hordeum vulgare [barley] (Gramineae): grain
crop** 282
- horticultural crops** 46
- household surveys** 26
- HUA** 266
- human ecology** 175
- Human Ecology (Anthropology)** 44
- Human ecology---Moral and ethical aspects** 126
- Human factors** 163
- human (Hominidae)** 44, 79, 175
- human (Hominidae): farm household members**
34
- human (Hominidae): farmer** 23, 28, 57, 141, 185,
291, 328
- human (Hominidae): farmer, hunter, manager,
public functionary** 177
- human (Hominidae): farmers** 174, 355
- human (Hominidae): rangeland managers,
rangeland scientists** 32
- human wildlife conflicts** 23
- humane development** 221
- Humans** 23, 28, 32, 34, 44, 57, 79, 137, 141, 174,
175, 177, 185, 291, 328, 335, 355
- hunting** 283
- hunting permits** 177
- Hydrologic Unit Area** 266
- Hydrology** 234
- hypoxia** 15
- Idaho** 64
- Illinois** 194, 314, 329, 361
- impacts** 65
- improvement** 274
- incentive payments** 228
- incentives** 21, 39, 48, 70, 103, 104, 116, 118, 120,
124, 130, 131, 150, 181, 188, 194, 200, 203,
209, 210, 215, 252, 257, 267, 280, 292, 293,
296, 301, 362, 375
- Incentives in soil conservation** 212
- income** 115, 117, 130, 172, 307
- Indiana** 262, 292, 314
- indicators** 35, 303
- INE, USA, California, Elkhorn Slough** 95
- infiltration** 46, 138
- information** 65, 215, 273, 308
- Information exchange** 163, 213
- information needs** 71, 289
- information services** 208, 214, 289
- information systems** 35, 163, 213
- information technology** 76, 287, 316
- initial soil properties: alternative management
practice yield response, susceptibility to
degradation, yield sensitivity** 91
- inland water environment** 1
- innovation adoption** 7, 8, 9, 12, 13, 15, 16, 18,
26, 38, 46, 49, 50, 70, 77, 90, 97, 100, 112,
135, 142, 148, 149, 151, 152, 153, 162, 164,
165, 166, 167, 171, 173, 176, 179, 194, 198,
209, 214, 216, 225, 227, 230, 232, 246, 254,
259, 260, 261, 263, 266, 269, 270, 275, 276,
278, 280, 286, 287, 301, 303, 307, 309, 314,
316, 319, 322, 323, 325, 329, 330, 336, 339,
341, 342, 344, 349, 351, 363
- insect (Insecta Unspecified)** 190
- Insecta (Insecta Unspecified)** 190
- Insects** 190, 224
- Institutional Constraints** 73, 248
- institutional framework** 32
- institutions** 4, 257, 304
- Insurance** 357
- insurance premiums** 349
- integrated control** 218
- integrated natural resource management [INRM]**
42

integrated pest management 4, 11, 107, 190,
 209, 225, 260, 286, 360
integrated pest management [IPM]:
 implementation, perceptions 57
integrated systems 219
integration 219
intensive agricultural areas 177
intensive livestock farming 270
interactions 274
Interagency Cooperation 160
interdisciplinary approach 221
interdisciplinary research 35
international board for soil research and
 management 105
interviews 287
invertebrate (Invertebrata Unspecified) 190
invertebrates 190, 224, 269, 273
investment 90, 215, 259
Iowa 15, 38, 82, 100, 131, 289, 314, 325, 338, 349,
 357
Iowa MAX Program 348
irrigated farming 7, 90, 104, 164, 169, 199, 259,
 275
irrigated pastures 176
irrigation 33, 46, 73, 98, 118, 166, 169, 202, 226,
 244, 260, 274, 275, 305, 309, 344, 346, 360,
 367
irrigation depth 104
irrigation efficiency 46, 207, 346
irrigation equipment 104
Irrigation Practices 288
irrigation requirements 104
irrigation scheduling 104, 168, 169, 226, 244
irrigation systems 120, 142, 143, 198, 230, 274
irrigation technology 90
irrigation water 46, 73, 90, 96, 120, 142, 143, 169,
 198, 202, 207, 259, 300, 363
issues and policy 364
Italy 173
Kansas 124, 144, 244, 367
Kentucky 216
knowledge 138, 246
labor 164, 368
labor costs 353
lactuca sativa 46
Lakes 81
land 344
land application 251
land banks 36
land degradation 44, 240
land diversion 30, 117, 119, 121, 122, 146, 236,
 257, 301, 312
land evaluation 230
land husbandry 327
land management 35, 43, 52, 86, 122, 128, 130,
 135, 146, 150, 183, 200, 208, 258, 301, 369
land ownership 39, 43, 52, 262
land productivity 92, 129, 181, 322
land quality 344
land reclamation 284
land resources 52, 230, 262
land retirement 129
land types 236, 285
land use 36, 47, 64, 66, 79, 94, 117, 121, 128,
 146, 189, 215, 234, 236, 237, 249, 257, 262,
 284, 373
Land use---Planning---Environmental aspects---
 United States 132
land use policy 32
land use practices 220
land use type 34
Land utilization---Tax aspects 352
landholder management 350
landowner motivations 374
landowners 12, 18, 21, 43, 52, 64, 76, 103, 122,
 150, 188, 203, 235, 236, 257, 262, 292, 373
landscape 39, 65, 183, 185
landscape architecture: education, research 80,
 245
landscape conservation 65, 370
landscape development 221
landscape management 141
landscape planning 249
Landscape protection---Great Britain 211
laser leveling 7
Law, policy, economics and social sciences
 101
laws and regulations 76
leaching 46, 172, 196
learning 4, 112, 338
learning ability 276
learning curves 276
learning selection 42
leases 283
leaves 272
legal framework 32
legal rights 76
legislation 1, 7, 163, 193, 209, 244, 253, 285
legume crediting 209
legumes 209
leitbild 365
linear programming 117
Linum usitatissimum [flax] (Linaceae): fiber crop
 282
Linum usitatissimum [flax] (Linaceae): oil crop
 347
LISREL analysis 201
Literature Review 248
literature reviews 4, 5, 16, 35, 166, 225, 272, 303,
 317, 353
livestock 243
livestock breeding 177
livestock farming 250
livestock (Mammalia) 328
livestock (Mammalia): commercial species 177
livestock production 83
livestock waste 251
loans 104

- local decision makers** 79
local government 24
locus of control 367
losses 181
losses from soil 349
low agricultural income: effects mitigation 34
low input agriculture 149, 171, 256, 339, 349
low input production 337
low interest loans 104
low pressure technology adoption 230
low volume irrigation 198
Lumber industry---Environmental aspects 352
maize 90, 97, 115, 124, 172, 196, 276, 285, 323
Mammals 23, 28, 32, 34, 44, 57, 79, 137, 141, 174, 175, 177, 185, 291, 328, 335, 355
management 69, 79, 111, 189, 242, 243, 244, 270, 305
management attitudes 374
Management Planning 204
management systems evaluation area 256
Management Systems Evaluation Areas 266
manure hauling 251
manure management 251
manure testing 209
manures 27, 86, 131, 209, 250, 345
marginal land 117
Marine pollution 95
marketing 48, 339
markets 70, 300
Maryland 31, 52, 87, 172, 227
Massachusetts 150
mathematical model 59
mathematical models 30, 103, 120, 209, 227, 230, 236, 261, 312, 342, 344
mathematical programming model 120
mathematics 284, 349
measurement 35, 316
Mechanical and natural changes 1
Meta analysis 340
meters 272
methane 27
methane production 27
methodology 148, 274, 320
Mexico 169
Michigan 184, 260, 276, 361
microeconomics 64
Midwest 255
mine spoil 295
mineral waters 162
minimum tillage 331
mining 364
Minnesota 15, 82, 86, 121, 134, 289, 325, 369
Mississippi 117
Missouri 30, 235
mixed grass prairies 47
Model Studies 288, 346
Modeling 284
models 15, 51, 95, 201, 215, 227, 233, 267, 284, 308, 313, 368
monitoring 35, 138, 255, 263, 320
monitoring capacity 32
monitoring programs 32
monocots 108, 110, 114, 282, 335, 347
Montana 67
Montreal Process Criterion 7 32
moral hazard 298
motivation 128, 184, 262, 304, 362
MSEAs 266
mulch till system 348
multinomial probit 228
multinomial probit model 260
multiple indicator multiple cause model mimic 30
multiple objective decision support system 13
multivariate analysis 82, 142, 260
municipal refuse disposal 330
Narragansett Bay, Rhode Island 366
National Marine Fisheries Service 24
National Oceanic and Atmospheric Administration 24
natural area preservation 79
natural capital 327
natural resource management 9
natural resource management: policy research 191
natural resource management technologies [NRM technologies] 42
natural resource policy 76
natural resources 23, 35, 105, 127, 162, 210, 223, 303, 313
Natural resources---Management---Decision making 78
natural selection 42
nature conservation 18, 21, 36, 47, 53, 101, 122, 200, 229, 267, 370
nature conservation education 185
nature reserves 36
Nearctic region 61
Nebraska 50, 97, 138, 173, 363
neoclassical economics 261
Netherlands 200
Nevada 300
New England 103, 150
New Jersey 87, 231
New Mexico 46
new practices 20
new products 179
New South Wales 153
New York 71, 87, 172, 260, 359, 372
New Zealand 332
nitrate 120, 194
nitrate nitrogen 46
Nitrates 66, 202
nitrification inhibitors 11
nitrogen 63, 68, 97, 114, 138, 161, 166, 179, 250, 251, 272, 345, 349, 357, 363
nitrogen content 272

nitrogen fertilizers 50, 63, 70, 97, 120, 144, 209, 252, 302, 314, 349
no till system 348
no-tillage 173, 216, 246, 276, 339, 353, 368
NOAA 24
non industrial private forests 374
non market service reward development 157
non productive habitats 174
non renewable resources 307
Nonhuman Mammals 177, 328
Nonhuman Vertebrates 23, 37, 137, 177, 328
Nonpoint pollution 66, 81, 160
Nonpoint Pollution Sources 66, 81, 161, 178, 234
nonpoint source pollution 24, 155, 193, 266, 355, 362, 364
Nonpoint source pollution---United States 113
nontarget effects 281
normal flex acres 312
North America 21, 39, 49, 51, 52, 61, 85, 86, 97, 103, 106, 111, 115, 117, 124, 128, 130, 131, 134, 136, 145, 146, 150, 151, 152, 160, 168, 172, 173, 181, 184, 188, 189, 195, 196, 203, 208, 216, 227, 231, 232, 237, 244, 250, 257, 262, 269, 271, 273, 274, 281, 292, 296, 300, 302, 305, 308, 309, 325, 329, 338, 345, 359, 369, 372, 375
North America Carolina 131
North America Central States of USA 86, 97, 124, 131, 134, 145, 173, 181, 184, 244, 262, 281, 292, 296, 325, 329, 338, 369
North America, Great Lakes 101
North Carolina 242, 260, 270
Northeastern States of USA 103, 150, 172, 231, 250, 271, 359, 372
Northern Plains States of USA 97, 124, 173, 244
novelty generation 42
nutrient availability 138, 179, 272
nutrient balance 166, 250
nutrient content 250
nutrient depletion 91
nutrient management 9, 179, 360
nutrient transport 250
nutrients 15, 69, 91, 178, 251, 271, 359
objectives 48
objectivity 365
Occupational safety 213
Oceania 208, 332
off farm employment 34
Ohio 13, 15, 40, 82, 131, 145, 165, 167, 205, 281, 287, 289, 296, 324, 325, 351, 373
on farm conservation 275
on farm pilot project 282
Ontario 128, 152, 237
opinions 67, 173, 179, 231, 270, 322
opportunity costs 306, 361
optimization methods 307
optimum productivity goal 20
Oregon 93, 260, 277
organic amendments 195, 231
organic carbon 94
organic farming 138, 175, 304
organic wastes 330
organization of work 164
organizations 86, 143, 169, 248
original land surveys 223
oryza sativa 16, 166, 272
Oryza sativa (Gramineae) 335
other gainful activities [OGAs] 34
outreach 32
outsourcing 177
overall farm management implications 91
Pacific Northwest 96
Pacific Northwest States of USA 85, 188, 219
Pacific States of USA 85, 188, 195
Pakistan 169
Papilionoidea 115, 124, 172, 196
participation 9, 67, 85, 122, 128, 136, 146, 169, 203, 215, 235, 267, 278, 280, 292, 293, 300, 304, 305, 308, 312, 320, 373
participatory landscape ecology: acceptance, implementation 279
pastures 153, 229
payment levels 177
Pennsylvania 69, 87, 116, 172, 250, 260, 271
perception 167, 213, 229, 290
perceptions 23, 224
percolation 202
permeability 198
pest 102, 190
pest control 246, 269, 273
pest control method 190
pest management 9, 102, 190, 269
pesticide application 222
pesticide applications 125
pesticide free crop production: organic production transition, weeds, yield 282
pesticide residues 136
pesticide use 59
pesticides 136, 149, 172, 213, 235, 269, 281, 339
pesticides: pesticide 185
Pests Control---United States 17
Pests---Integrated control---United States 14
Pests---Integrated control---United States---Technological innovations 17
Philippines 105, 169
philosophy and ethics 44, 221
phosphorus 68, 134, 138, 250, 251
phosphorus fertilizers 86, 134, 153
phosphorus: loss mitigation 258
pig manure 131
Pisum sativum [field pea] (Leguminosae): vegetable crop 347
planning 39, 73, 366
Planning and development 234
plant breeding 42
plant disease control 246, 269
plant diseases 246

- plant nutrition** 360
- plant pathology** 269
- plant pests** 246
- plant (Plantae): crop** 42
- plant (Plantae): fruit crop, game crop** 177
- plant (Plantae Unspecified)** 102, 105, 110, 337
- plant protection** 269
- Plantae (Plantae Unspecified)** 102, 105, 110, 137
- planting** 360
- plants** 42, 57, 97, 102, 105, 108, 110, 114, 115, 124, 137, 172, 177, 196, 203, 224, 273, 282, 331, 335, 337, 340, 347
- plausible promise** 42
- plowing** 348
- Policies** 73, 127
- policy** 131, 172, 295, 305
- policy analysis** 9
- policy factors** 60
- Policy Making** 20, 217
- political contexts** 328
- polluted water** 268
- pollution** 53, 70, 86, 147, 302
- Pollution Assessment Control and Management** 44
- pollution control** 46, 53, 66, 69, 75, 81, 95, 101, 109, 131, 134, 193, 194, 242, 243, 256, 266, 296, 310, 345, 349, 364
- Pollution Control and Prevention** 95
- Pollution (Nonpoint sources)** 178
- Pollution prevention** 160
- polychotomous choice selectivity model** 50
- population pressure** 322
- potassium** 68
- potatoes** 273, 342
- practice** 351
- prairie demise** 223
- prairie reconstruction** 223
- prairie restoration** 223
- prediction** 18, 163, 289, 351
- preferences** 65, 329
- preplanting treatment** 349
- Prevention and control** 53, 69, 81, 95, 109, 202
- price policy** 104
- prices** 102, 104, 117, 118, 124, 368
- Primates** 23, 28, 32, 34, 44, 57, 79, 137, 141, 174, 175, 177, 185, 291, 328, 335, 355
- principle of subsidiary regulations** 365
- private forestry** 39, 150, 188, 292
- private land use** 23
- private lands** 76
- private ownership** 12, 39, 43
- probabilistic models** 50, 77, 119, 142, 198, 260
- probability** 142, 230, 323
- probit analysis** 167, 209, 260, 314
- production costs** 8, 75, 110
- production functions** 342
- productivity** 240, 368
- profit functions** 259
- profitability** 38, 106, 124, 317, 324, 348, 368
- profits** 100, 209, 252, 276, 368
- program effectiveness** 40
- program evaluation** 24, 70
- program participants** 30, 64, 119, 194, 301, 318, 361
- programs** 40, 280
- project evaluation** 327
- promulgation** 42
- property rights** 1, 32, 39, 123, 150
- property tax** 87
- protection** 172
- Protective measures and control** 53, 127, 207, 284
- Public concern** 213, 290
- public finance** 24
- public health** 172
- public opinion** 5, 248, 255, 308, 334
- Public Participation** 32, 81, 160, 161, 178, 205, 334
- Public Policy** 248
- publicly provided information** 297
- quality** 295
- quality protection practices** 228
- Quebec** 273, 342
- questionnaires** 138
- rain** 153, 166
- rainfall** 222
- ranching** 283
- range management** 283
- rangeland management** 356
- rangeland pastoralism: ecological aspects, economical aspects** 328
- rangeland sustainability** 32
- Real property and taxation---United States** 294
- realtors** 79
- reclamation** 284, 285
- reduced till system** 348
- reduced tillage technology** 102
- refuse** 330
- refuse compost** 330
- Regional Analysis** 163
- Regional conservation programs** 265
- regional economics** 9
- Regional planning** 73, 290
- regional surveys** 40, 64, 67, 149
- regionally adapted solutions** 365
- regression analysis** 7, 15, 38, 68, 82, 288, 371
- regulations** 74, 116, 120, 255, 330, 371
- regulatory induced change** 197
- rehabilitation** 310
- religion** 165
- Remedies** 248
- remnant wildlife habitat** 156
- renewable resources** 307, 341
- rent** 94, 235
- replacement** 276
- reporting programs** 32
- Reproduction and development** 47
- requirements** 63

research 5, 10, 32, 61, 246, 280, 320
research and development 129
Research programs 53
reserved areas 122
residues 136, 196
resistance to change 46, 270, 280, 286, 339
resource allocation 230
resource conservation 43, 52, 53, 122, 165, 183, 184
resource efficiency 221
resource endowments 340
resource management 51, 53, 60, 73, 103, 127, 157, 162, 189, 200, 234, 313, 320, 369
resource managers 79
resource utilization 164, 306, 307, 341, 344
resources management 29
returns 70, 100, 119, 124, 144, 181, 203, 262, 349
reviews 27, 107, 111, 208, 246, 316, 320
Rhode Island 366
rice 203
Richland Parish, Louisiana 119
ridge till system 348
ridging 339
Rights 96
riparian buffer zones 217
riparian buffers 236, 364
Riparian ecosystems 189
riparian forests 184
Riparian Land 217
riparian vegetation 101, 332
risk 70, 82, 100, 106, 107, 112, 115, 144, 160, 186, 263, 276, 281, 308, 329
risk assessment 18, 186
river 220
River basin management 73
River basins 69, 73
river corridor: local perceptions, values 245
River valleys 73
riverbank protection 189
rivers 134, 184
rotation 100
rotational tillage 331
rotations 11, 50, 107, 246, 360
runoff 202, 336, 353
runoff water 336
rural areas 43, 183, 255
rural community 220
rural conditions 221
rural development 320
rural development policy 247
rural landscape 374
rural landscape planning 245
rural landscapes: ecological framework 291
rural livelihoods 327
Rural Nonpoint Source Control Water Quality Evaluation and Technical Assistance Project 140
rural sociology 165
rural technology 42
safety 172, 196
Safford 79
Saline intrusion 73
Saline Water Intrusion 73
salinization 98
San Joaquin Valley 142
San Joaquin Valley, California 164
Saskatchewan 26, 309
savanna 223
savings 8
scenic beauty estimates 65
seasons 349
sediment erosion 69
Sediment Load 234
sediment transport 129
sediment transport: estuary degradation, lake degradation, stream degradation 92
semiarid prairie 110
semiarid zones 254
Senegal 169
sequestration 257
set aside land: conservation based management, farmer participation 28
set aside lands 177
settlement 223
sewage sludge 231
silviculture 117, 197
simulated maximum likelihood estimation 228
simulated multivariate normal 228
simulation 70, 120, 228, 236
simulation models 16, 63, 116, 121, 203, 263
site preparation 360
site specific crop management 8, 18, 77, 167, 214, 287, 314, 316
size 336
slope 198
small farms 119
social adaptation 42
social aspects 101, 159
social attitudes 23
social barriers 330
social benefit 362
social benefits 121, 171, 189
social capital 327
Social Change 73
social costs 129
social differentiation 165
Social Impact 204
social learning 4, 355
social negotiation 42
Social Participation 40, 217, 357, 366
social pressure 141
social psychology 141
social sciences 280, 320
social values 317
social welfare 263
societal contexts 328
society pastoralist interactions: historical course 328

- socio economics** 177
Socioeconomic aspects 290
socioeconomic status 323
socioeconomics 15, 79, 101, 188, 303, 321, 322, 325
sociological analysis 286
Sociological aspects 53, 73, 81, 204, 213
sociology 73, 154, 172, 204, 235, 244, 302, 305, 309, 321
Sociology & Anthropology 65
soft science 42
soil 172, 185, 196
soil biology 246
soil chemistry 303
soil color 138
soil compaction 138, 166
soil conservation 10, 11, 12, 29, 30, 40, 67, 88, 100, 101, 122, 123, 135, 154, 163, 181, 205, 227, 232, 247, 255, 280, 289, 296, 307, 321, 325, 327, 340, 341, 351, 361, 371
Soil conservation---Government policy---Congresses 326
soil conservation policies 92
Soil conservation projects---Illinois---Central Region 139
Soil conservation projects---North Dakota 192
soil degradation 166, 181, 307, 341
soil degradation: optimal management response 91
soil depth 92
soil depth: reduction 129
soil erosion 29, 44, 60, 91, 101, 109, 125, 129
soil erosion dynamics: off farm impacts, on farm impacts 92
Soil erosion---United States 25
soil fertility 16, 138, 166, 271, 303, 314, 329
soil management 9, 10, 16, 166, 181, 232
soil organic matter 71
soil physical properties 303
soil pollution 329
soil productivity 91
soil profile depth depletion 91
soil profiles 88
soil properties 88, 142
soil protection 355
soil quality 195
soil science 44, 59, 61, 102, 110, 331
soil testing 50, 97, 179, 314, 363
soil texture 110, 138
soil type 60
soil types 90, 94, 100
soil variability 319
soil water 209
Solanum tuberosum 273
solar radiation 166
sorghum 90
Sources and fate of pollution 202
South Australia 153
South Carolina 39
south east England 301
Southeastern States of USA 39, 146
Southeastern United States 265
southern plains states of USA 120
sowing 173
soybean (Leguminosae) 114
soybeans 276
spatial variation 52, 166, 316
species diversity 199
spermatophytes 57, 102, 108, 110, 114, 224, 282, 331, 335, 337, 340, 347
spring 179
spring crop 224
Sri Lanka 169
stability 106
stakeholder participation 220
stakeholders 42
standards 116
stands 65
State conservation programs 72, 93, 277, 333
state government 7
stated environmental intentions 34
Statistical Analysis 26, 103, 217
statistical data 64
statistics 10, 56
stochastic models 329
stochastic processes 100
stocking rate 153
strategic management 201
streams 121, 188
stress 166
structural change 339
structure 10, 313
subsidies 329, 346
subsurface irrigation 336
summer resident birds 137
support measures 130, 200, 203
Supporting Science 19, 41
surface irrigation 176
surface runoff 202
surface water pollution 258
Survey 155, 204, 217
survey method 28
Surveys 1, 9, 33, 36, 49, 52, 71, 88, 103, 122, 128, 148, 151, 153, 154, 184, 204, 213, 217, 227, 237, 269, 270, 288, 329, 334, 336, 353, 358, 360, 367, 371
Susquehanna River 69
sustainability 12, 35, 38, 43, 85, 106, 171, 195, 219, 254, 274, 303, 306, 312, 313, 317, 321, 322, 330, 332, 338, 339, 360, 365
sustainable agriculture 53, 185, 247, 331
sustainable conservation 247
Sustainable development 53
sustainable farming 53
sustainable farming practices 328
Sweden 178
system integration 221
systems approach 306

Tasmania 153
Tax expenditures---United States---Arkansas 352
taxes 116, 120, 129, 134, 252, 293
technical assistance 129
technical factors 341
technical progress 7, 112, 165, 179, 322, 342
technical support 57
techniques 138
technology 26, 62, 112, 142, 207, 227, 246, 259, 260, 261, 305, 309, 319, 322, 323, 329, 342, 344
technology adoption 191
technology adoption factor categories:
 biophysical factors, market incentives, preferences, resource endowments, risk and uncertainty 340
technology bundles 260
technology change: catalyzation, evaluation 42
technology transfer 16, 46, 71, 138, 165, 166, 190, 272, 278, 287, 303, 316, 317, 360
temporal variation 166
tenants 119
tenure systems 203, 232, 235
terrestrial ecology 356
tests 65, 179
Texas 72, 283, 318
Theoretical Analysis 248, 346
Theory of Planned Behavior 141
Thin Black Chernozem: prairie soil 347
tiered water pricing 104
tillage 11, 50, 59, 71, 353, 360, 368
tillage method 61
tillage practices 222
tillage systems 348
tillage timing 331
tolerance 166
Tomato industry---Florida 264
Tomatoes---Irrigation 264
topsoil 307
tracers 46
trade 48
Tragedy of the Commons 210
transaction costs 257
Treaties 96
tree (Spermatophyta) 340
trends 235
Triticum 124
triticum aestivum 353
Triticum aestivum (Gramineae) 110
Triticum aestivum [wheat] (Gramineae): grain crop 282
Triticum aestivum [winter wheat] (Gramineae): grain crop 347
triticum durum 353
Triticum turgidum (Gramineae) 110
tropical areas 340
trough 336
two limit Tobit model 77
U.S. Bureau of Reclamation 118
UK 63, 208, 215, 229, 271, 358, 370
uncertainty 70, 78, 107, 112, 152, 259, 329
Underground Services and Water Use 143, 346
United States 8, 9, 21, 24, 39, 49, 51, 52, 61, 64, 69, 75, 85, 86, 88, 92, 97, 103, 111, 115, 117, 118, 124, 127, 130, 131, 134, 136, 145, 146, 149, 150, 151, 158, 160, 168, 171, 172, 173, 181, 184, 188, 189, 195, 196, 203, 205, 207, 213, 216, 227, 231, 232, 235, 244, 250, 253, 262, 263, 266, 269, 271, 274, 281, 284, 292, 296, 299, 300, 302, 305, 325, 329, 336, 338, 339, 341, 345, 353, 357, 359, 362, 364, 369, 372, 375
United States Army Corps of Engineers 24
United States, California 95
United States, California, Salinas River 73
United States, California, Salinas River Valley 73
United States, Colorado, Greeley 202
United States Geological Survey 24
United States, Great Plains 47
United States, High Plains, Ogallala Region 33
United States, Illinois 109, 159, 234, 315
United States, Illinois, Cache River 234
United States, Maryland 53
United States, Maryland, Chestertown, Chesapeake Farms 53
United States, Mid Atlantic states 213
United States, Midwest 1, 123, 204
United States, New Mexico 288
United States, New York 66
United States, New York, Skaneateles Lake 81
United States, North Carolina, Neuse River 161
United States, Pacific Northwest 96
United States---Tax policy 352
United States, Tennessee 163
United States, Texas 290
United States, Texas, Edwards Plateau 290
Upper Gila River 79
urban development 364
Urban runoff---United States 132
Urban runoff---United States---Management 132
urban rural interface 249
urbanization 284
USA 334, 371
USACE 24
USDA 24, 209, 268
USDA Area Studies Project 9
use efficiency 16, 97, 166, 272
Use of water of impaired quality 202
user costs 307
USGS 24
Utah 74, 360
utility functions 361
utilization 179
values 32, 43, 183
variable rate application 8, 287, 314

- vascular plants** 57, 102, 108, 110, 114, 224, 282, 331, 335, 337, 340, 347
vegetable crops (Angiospermae) 57
vegetables 71, 104, 360
vegetation 137
Vegetation cover 95
Vertebrates 23, 28, 32, 34, 37, 44, 57, 79, 137, 141, 174, 175, 177, 185, 291, 328, 335, 355
Victoria 153, 176
vineyards 230
Virginia 87, 260, 302
volume 104
voluntary services 40
volunteers 205
warmwater stream 121
Washington 260
waste disposal 74
waste management 74, 231, 359
waste utilization 131, 231, 270, 330, 359
water 136, 196
water allocation 98, 104, 118, 169, 300
water conservation 7, 10, 11, 12, 15, 33, 40, 96, 118, 202, 205, 207, 227, 247, 261, 268, 275, 280, 289, 321, 325, 327, 340, 344, 346, 351
Water conservation---Economic aspects 264
Water conservation---Government policy---Congresses 326
water costs 7, 48, 104, 118, 142, 198, 230, 344, 346
water demand 207
water disposal 197
water harvesting 254
Water law and institutions 33, 248
Water management 9, 51, 73, 81, 107, 109, 184, 202, 204, 207, 217, 226, 248, 250, 268, 274, 290, 313, 345, 346, 367, 375
water policy 48, 96, 118, 120, 169, 248, 300, 334, 375
water pollution 24, 44, 68, 74, 75, 120, 134, 136, 145, 149, 193, 220, 231, 256, 268, 296, 364
Water Pollution Control 66, 69, 160, 161, 357
Water Pollution---Economic aspects---United States 113
Water Pollution: Monitoring, Control & Remediation 161, 178
Water Pollution Prevention 81, 160
water protection 355
water quality 1, 15, 18, 51, 70, 74, 86, 90, 96, 101, 104, 107, 116, 120, 121, 134, 136, 148, 149, 163, 178, 182, 185, 193, 196, 202, 207, 209, 213, 220, 228, 233, 235, 243, 250, 251, 252, 266, 268, 270, 281, 295, 296, 298, 302, 303, 345, 353, 363, 364, 366, 375
Water quality control 66, 69, 81, 95, 101, 160, 161, 178, 217, 357
Water Quality Demonstration Project Areas 362
Water quality---Economic aspects---United States 22
Water quality---Florida---Everglades 187
Water Quality Management 178
Water quality management---Florida---Everglades 187
Water quality management---Illinois---Central Region 139
Water quality management---United States 54, 55, 132, 140
water quality standards 202
Water quality---United States 25, 113, 140
water related diseases 147
water resources 73, 148, 204, 207, 244, 268, 290, 300, 313
Water Resources and Supplies 73, 96, 204, 217, 248
Water resources development---Illinois---Central Region 139
Water Resources Management 207, 248
Water Rights 33, 96
water runoff 125
Water supply 73, 81, 290
water use 73, 96, 118, 120, 207, 230, 244, 274
water use efficiency 33, 46
Water Users 143
water users' associations 169
Water & Wastewater Treatment 73, 346
water yield 283, 290
water yield improvement 290
waterlogging 98
watershed management 5, 12, 15, 24, 81, 109, 161, 184, 217, 234, 248, 250, 266, 268, 283, 315, 324, 364
Watershed management---Illinois---Central Region 139
Watershed protection 1, 29, 109, 123, 163, 255, 315, 371
watersheds 5, 9, 10, 11, 18, 40, 49, 70, 81, 82, 109, 121, 151, 163, 184, 205, 234, 243, 250, 268, 289, 296, 313, 325, 355, 369
weather 70, 329
Weather Forecasting 204
weed control 11, 196, 246, 269, 338
weeds 11, 166, 246
weeds (Tracheophyta) 102
Wells Creek Watershed 121
West Carroll, Louisiana 119
Western States of USA 85, 168, 169, 188, 189, 195, 244, 274, 300
Wetland conservation---Economic aspects---United States 294
Wetland conservation---Law and legislation---United States 170
Wetland Reserve Program 1, 123
wetlands 1, 47, 123, 199, 229, 284, 285, 293, 334, 373
wetlands: conservation 185
Wetlands---Law and legislation---United States 170
Wetlands Reserve Program 334
Wetlands Reserve Program U.S 170

wheat 90, 124
wheat (Gramineae) 110
whitefly (Homoptera): pest 224
Wildlife 200, 213
wildlife (Animalia) 177
wildlife conservation 370
wildlife damage 177
wildlife habitat improvement actions [WHIAs]
177
wildlife habitats 101, 364
wildlife management 47, 141, 283
wildlife preservation 79
willingness to accept 209
willingness to participate 119
Wisconsin 88, 314
**woodlots: environmental benefits, farm
population owners, non farm population
owners** 374
world 240
WTA 228
yield 110
yields 97, 124
zea mays 77, 97, 115, 124, 144, 172, 196, 252,
353
Zea mays [corn] (Gramineae): grain crop 108
zone tillage 331