

Index

A

- AAS. *See* Agroforestry Accounting System (AAS)
- Accipiter cooperii*, 215
- Acorn
- dispersal, 167
 - flour, 28
 - forage, 277
 - gathering, 27, 42
 - harvesting, 27
 - predation, 168
 - size, 183, 194
 - trade-offs, 195
- Acorn crop, 140, 202–204, 486
- climatic influence, 185
 - comparison, 184
 - factors, 184
 - quantifying, 192
 - recruitment, 140
 - size, 183, 184
- Acorn production, 18, 19, 183, 184, 186, 253, 278, 279
- asynchrony, 199
 - biotic factors, 188
 - communities, 199
 - comparison, 182, 185
 - components, 191
 - environmental factors, 185
 - estimation methods, 201
 - management and habitat factors, 190
 - pollen limitation, 196
 - spatial synchrony, 197, 198
 - trade-offs, 195
- Aaptive traits, 165
- Adenostoma fasciculatum*, 337
- Aegyptius monachus*, 232
- Afforestation, 137, 138, 259, 260, 281, 362, 377, 466, 490
- Afordor*, 292
- Age determination, 128
- Agricultural extension, 35
- Agro-environmental schemes, 376
- Agroforestry Accounting System (AAS), 20, 363, 391–393, 419, 421
- Air Resources Board (ARB)
- Alcornocal*, 8
- Alectoris rufa*, 227, 313–315
- Alternative management, 254
- Ambystoma californiense*, 219, 375
- Amenity value, 262, 380, 419
- Ammotragus lervia*, 314, 343
- Andalucía, 8, 10, 11, 13, 14, 19, 40, 99, 137, 247, 313, 333, 334, 336, 337, 362, 365, 397, 413
- Annual grasses, 10, 108, 111, 132, 135, 146, 152, 166, 275, 276, 297, 435
- Antlerless harvest, 332
- Aphelocoma californica*, 199, 223
- Apodemus sylvaticus*, 234
- Aquila*
- adalberti*, 227, 344
 - chrysaetos*, 215, 218
- Arab, 6, 15, 41
- ARB. *See* Air Resources Board (ARB)
- Arboreal predators, 189
- Arbutus spp.*, 337
- Arctostaphylos spp.*, 337
- Area shape index (ASI), 434
- Arthropod herbivores
- borer insects, 189
- Athene cunicularia*, 375
- Autonomous regions, 10, 11

- Avena*, 147
fatua, 53
 spp., 297
- B**
- Baccharis* spp., 337
Baeolophus inornatus, 221
 Bag limits, 332
Batrachoceps stebbinsi, 215
 Big conservation, 36
 Bioclimatic
 analysis, 65
 modeling, 66, 72, 73
 Biodiversity, 19, 214, 224, 225, 233, 235, 360,
 470, 472, 488
 biological diversity patterns, 214, 229
 breeding bird diversity, 220
 hotspots, 214
 threatened, 483
 Bioenergy Interagency Working Group
 (BIWG)
 BIWG. *See* Bioenergy Interagency Working
 Group (BIWG)
 Boars (wild), 40, 326, 329, 343, 344, 473, 495.
 See also *Sus scrofa*, pig
 Boletín Oficial del Estado (BOE)
 Bottom-up management practices, 329, 336
 Bovine tuberculosis, 286
Brenneria, 189
Bromus, 147
 Burning
 early Spain, 39
 native Californians, 127
 prescribed, 224, 338
- C**
- Cabrillo, Juan Rodríguez, 26
 Cáceres, 39
 Arroyo de la Luz, 400, 417
 CalFire, 434
 California Chapter, American Society of Farm
 Managers and Rural Appraisers
 (CASFMRA)
 California Department of Fish and Game, 332
 California Department of Forestry and Fire
 Protection—Fire and Resource Assess-
 ment Program, CalFire (CDF-FRAP)
 California Interagency Wildlife Task Group
 (CIWTG)
 California Land Conservation Act of 1965. *See*
 Williamson Act
- California Legislative Analyst's Office
 (CALAO)
 California Oak Woodland Conservation
 Working Group (CA-OWCW)
 California Rangeland Trust, The, 477
Californios, 29
 California's Global Warming Solutions Act,
 267
Callipepla
 californica, 313, 315
 spp., 314
Canis
 lupus signatus, 336
 lupus, 232, 344
 Canopy effects, 147, 149, 153, 155, 156, 168,
 217, 277
 wildlife, 229
 CA-OWCW. *See* California Oak Woodland
 Conservation Working Group
 Capital, 392, 393, 412, 467, 471, 483
 depreciation, 328
 fixed, 256, 394, 414
 gains, 395, 396, 416
 immobilized, 397
 income, 254, 257, 395, 397
 income gains/losses, 257
 indicators, 407, 410, 419
 manufactured, 395, 414, 419
 natural, 20, 382, 419
 operating, 470
 reevaluation, 396, 413
Capra pyrenaica, 314, 344
Capreolus capreolus, 314
 Carbon markets, 369
 Carbon sequestration, 267, 268, 362, 369, 375,
 381, 476
 Carbon sink, 288
 Case studies, 410, 411
 comparative analysis, 410, 417
 dehesa, 397, 402, 404, 408, 412
 land use and vegetation, 398
 economic analysis, 407
 ranches, 399, 402, 405, 409, 410, 415
 CASFMRA. *See* California Chapter, American
 Society of Farm Managers and Rural
 Appraisers
 Castilla-La Mancha, 10, 11, 16, 79, 137, 247,
 283
 Castilla-León, 10, 11, 79, 392
Castizos, 279
 Catchment hydrology
 California, 112
 Spain, 102, 103

- Catholic Church, 29, 40, 42, 53
 Cattle, 285, 298, 487
 production, 299
 Cave art, 319
 CDF-FRAP. *See* California Department of Forestry and Fire Protection—Fire and Resource Assessment Program, CalFire
 CdV. *See* Equipo Pluridisciplinar de la Casa de Velázquez (CdV)
Ceanothus spp., 337
Centaurea solstitialis, 343
Cervus
 canadensis, 311, 321
 elaphus hispanicus, 313
 elaphus, 227
 Chicago Climate Exchange (CCX), 362, 369
Chondestes grammacus, 223
 CICES. *See* Common International Classification of Ecosystem Goods and Services (CICES)
Ciconia, 463
 nigra, 232
Cistus, 132, 147, 154, 337
 ladanifer, 132, 337
 CIWTG. *See* California Interagency Wildlife Task Group (CIWTG)
 Classification and regression tree, 72
 Climate, 17
 California, 63, 65
 climatic niche model, 65
 climatic requirements for California oak species, 65
 climatic zones, 77, 78, 82, 83, 85, 86
 forage production, 276
 parameters, California, 65
 parameters, Spain, 79
 Spain, 75, 80
 zones, 431
 Climate change, 73, 74, 82, 86, 103, 132, 140, 172, 493
Coccothraustes vespertinus, 224
 Cogeneration, 266
Columba
 oenas, 227
 palumbus, 227, 232
Columbidae spp., 316
 Commercial returns, 254
 Common International Classification of Ecosystem Goods and Services (CICES), 355
 Conservation, 171, 214, 267, 369
 California, 466
 challenges, 465
 policy, 487
 Spain, 467
 status, 215, 227, 228
 wildlife, 222
 Conservation banks, 477
Contopus sordidulus, 224
 Cork
 harvesting, 12, 43, 130
 production, 47
 stripping, 393
 wine, 373
Cotos, 315
Coturnix coturnix, 314
 Cowboy, 8
Curculio spp., 189
 Current value, 357
Cydia spp., 189
- D**
Dama dama, 313, 314
 Dehesa, 7, 8, 12, 13, 39, 41, 51
 consolidation, 42, 43
 conversion, 43, 125
 decay, 48
 improvement, 46
 privatization, 44
Dehesa boyal, 8, 42, 292
Delichon urbica, 232
 Dendrochronological studies, 82
 Diario Oficial de la Unión Europea (DOUE)
Dipodomys stephensi, 222, 375
 Distribution
 oak species, 66
 oak woodlands, 62
 predicting, 70
 Distribution factors, 85, 86
 Disturbance regime, 221
 fire, 224, 451
 Dogs, 330, 331
 Donkeys, 288
 DOUE. *See* Diario Oficial de la Unión Europea (DOUE)
 Drippy nut disease, 189
Dromaius novaehollandiae, 297
- E**
 Easements, 38
 conservation, 369, 371, 381, 472, 477, 492
 mitigation, 369, 477
 Ecohydrological equilibrium, 160

- Ecological comparison
 composition, 444
 conclusions, 453
 differences, 442
 landscape similarity, 447
 methods, 438, 439
 questions, 438
- Ecological functions, 214
- Economic
 analysis, 247
 sustainability, 225, 235
- Ecosystem productivity, 148
- Ecosystem services, vi, 10, 11, 20, 39, 43, 47, 54, 93, 95, 97, 99, 125, 126, 128, 135, 137, 153, 157, 247, 256, 282, 283, 286, 289, 303, 313, 336, 372, 389, 413, 432
- conservation, 365
- cultural, 355
- existence values, 360
- incentivizing management practices, 374
- landowner decisions, 377
- landscape scale, 360
- marketing, 371
- payment, 375
- payment for ecosystem services (PES), 366
- policies and programs, 366
- provisioning, 355
- regulating, 355
- trade-offs, 362, 365
- value, 356, 358
- Ecotone, 225
- Empidonax difficilis*, 224
- Encinar*, 8
- Ensatina eschscholtzii croceater*, 215
- Environmental Quality Incentives Program (EQIP), 366, 377, 387
- EQIP. *See* Environmental Quality Incentives Program (EQIP)
- Equipo Pluridisciplinar de la Casa de Velázquez (CdV)
- Erica*, 147, 337
- Erosion processes
 Spain, 97, 100
- Erosion rates
 California, 116
- Erythrolbanus*, 199
- Eucalyptus globulus*, 490
- Euphrydas editha bayensis*, 222
- European birds and habitats directives, 227
- European habitats directive, 224
- European regulations 2080/92 and 1257/99, 259
- European Union Common Agricultural Policy (CAP), 48, 50, 261, 367, 376, 414, 488
- Existence value, 357
- Expropriation, 34
- Extremadura, 10, 11, 39, 40, 43, 47, 54, 93–95, 98, 99, 125, 126, 128, 135, 137, 153, 157, 246, 247, 256, 283, 286, 289, 290, 303, 313, 336, 366, 372, 389, 413, 432
- F**
- Fagus sylvatica*, 76
- Falco tinnunculus*, 345
- Felis silvestris*, 345
- Festuca*, 147
- Fighting bulls, 287
- Fire, 224, 468
 impacts on regeneration, 130, 133
 suppression, 32, 132, 133
 wildfire, 445
- Firewood, 191, 224, 248, 251, 260, 262, 263, 266
- Forage production, 112, 127, 148, 154–156, 170, 191, 261, 275, 278, 375, 492
- Forage unit (FU), 249
- Forest Practice Act of 1974, 38
- Forest products, 16, 50, 363, 474
- Forest Reserve Act, 33
- Forestry, 46, 419. *See also* Silvopastoral management
 activities, 412, 415
- Fragmentation, 223, 341, 379, 382, 420, 467
- Franco, 47
- Fraxinus angustifolia*, 76, 431
- Fungi, 475
- FU. *See* Forage unit (FU)
- Future dynamics, 453
- G**
- Galerida cristata*, 232
- Game
 fencing, 317, 323, 333, 334, 341
 restocking and farming, 334
 small, 314
 species, 313, 315, 323, 466
 supplemental feeding, 336, 338
 water provisioning, 338
- Garrulus glandarius*, 199, 234
- General Disentitlement Act, 44
- Genetta genetta*, 345
- Geographic Information System (GIS), 22, 65, 73, 429, 439
- Global Warming Solutions Act, 369
- Goats, 284, 300
- Gold Rush, 21, 32, 128, 294, 321, 453

Gómez Mendoza, 40
 GPRC. *See* Great Plains Restoration Council (GRPC)
 Grassland Reserve Program (GRP), 377
 Grazing, 436
 behavior, 281
 exclusion, 249, 260
 leases, 296
 Great Plains Restoration Council (GPRC)
 Green revolution, 48
 Growth function
 holm oak, 248
 GRP. *See* Grassland Reserve Program (GRP)
Grus grus, 232
Gyps fulvus, 213

H

Habitat elements, 218, 221, 227
 Hedonic value, 263, 357, 362, 483
Hirundo
 daurica, 232
 rustica, 232
 History, 15
 California, 27, 429
 Spain, 38
 Homoclimate matching, 65
 Horses, 288, 300
 purebred spanish horse, 288
 supplemental feeding, 406
 Hounds. *See* dogs
 Hunters, 319, 320
 Hunting, 50, 52, 254, 262, 266, 285, 468, 473
 commercialization, 325
 costs, 326, 328, 337
 dehesa development, 47
 demographic shift, 318
 dogs, 321
 environmental effects, 339, 340
 harvest methods, 329
 historical Spain, 40
 history, 319
 lands, 313
 net profit, 327
 regulations, 333, 343
 revenue, 326, 345
 seasons, 316
 wildlife management, 227, 329
 Hunting Law of 1970 (Spain), 315, 317, 325, 488
 Hunting operations, 317, 327
 coto privado, 317
 coto social, 317
 day hunts, 318

 year-long leases, 318
 Hydrological cycle, 92

I

Icterus bullockii, 224
 IHRMP. *See* Integrated Hardwood Range Management Program (IHRMP)
 Immobilized capital (IMC), 397
 Income, 38, 49, 50, 137, 214, 225, 294, 325, 326, 345, 377, 380, 396, 399, 406, 419, 473, 474, 476, 488
 commercial operating, 396, 465, 471
 indicators, 407, 410, 419
 maximization, 378
 measurement, 421
 mixed, 414
 results, 412, 415
 total, 359, 363, 391–393, 395, 396, 416
 Infinite productivity, 35
 Insect herbivores, 188, 190
 acorn weevils, 189
 Integrated Hardwood Range Management Program (IHRMP), 37, 377, 378, 466, 492
 Integrated management, 37
 Intensive agriculture, 32, 33, 43, 48, 49, 54, 125, 222
 Interactions
 environmental, 169
 seedling-understory, 165
 shrub-seedling, 169
 shrub-tree, 162, 171
 tree-herb, 163
 tree-tree, 158
 Intergenerational equity, 493
 Introduced species, 147
 Invasive species, 343
 Irrigated pasture, 406
 Islamic conquest, 40

J

Jamón, 20, 273, 277, 289, 294, 301, 372
 de bellota, 289, 292, 293
 Judges of the Plains, 29
Juniperus
 oxycedrus, 76
 thurifera, 76, 79

K

Keystone
 dispersers, 234

- species, 225
- structures, 220
- Kyoto Protocol, 369

- L**
- Lacerta lepida*, 232
- Lama glama*, 297
- Land
 - contract, 490
 - grants, 31
 - ownership, 319, 466, 469
 - price, 247
 - trust, 370, 477
 - use, 444
 - use change, 304
- Landowner
 - characteristics, 13, 303
 - income, 225
- Landscape
 - ecology, 429, 430
 - heterogeneity, 216, 220, 225, 227, 337, 469, 488
 - patterns, 429
 - processes, 429
- Landscape-scale management, 470, 486
- Laterallus jamaicensis coturniculus*, 361
- Lepus*
 - californicus*, 314
 - granatensis*, 227, 314
- Light availability, 149
- Livestock
 - breeds, 280, 304, 406, 418
 - exclusion, 134, 136, 260
 - production, 20
- Livestock grazing, 222, 260
 - impacts on regeneration, 132
 - impacts on wildlife, 231, 232, 236
- Livestock production, 20, 146, 170, 182, 247, 262, 266, 274, 278, 294, 297, 367, 374, 379, 419, 492
 - comparison, 302
 - overview, 274
- Logistic regression, 66, 69, 72, 73
- Lupinus luteus*, 191
- Lynx*
 - pardina*, 232, 333
 - pardinus*, 229
 - rufus*, 335

- M**
- Madrid, 10, 11, 79, 289, 381, 392, 443, 456
- Management
 - objectives, 443
 - regime, 430, 432
- MARM. See Ministerio de Medio Ambiente Rural y Marino (MARM)
- Martes foina*, 345
- Masting, 183, 192, 197
- Matrix, 215
- Measure, 37, 368
- Melanaplus* spp., 136
- Melanerpes formicivorus*, 199–221
- Meleagris gallopavo*, 313, 315, 316
- Meles meles*, 345
- Melojal*, 8
- Merino, 43, 53, 282, 283, 389, 392, 400, 413
- Mesta*, 29, 40, 43, 44, 389, 413, 484
- Mexican–American War, 31
- Microclimate, 103, 168
- Microtus californicus*, 132, 135
- Miliaria calandra*, 232
- Millennium Ecosystem Assessment (MEA), 355, 358
- Mimus polyglottos*, 223
- Ministerio de Medio Ambiente Rural y Marino (MARM)
- Missions, 29, 30, 321
- Mitigation, 477
- Monitoring, 486
- Montado*, 10
- Montanera*, 50, 249, 254, 291, 401
- Montería*, 331, 343
- Montes*, 8, 320
- Mules, 288
- Municipios*, 40
- Murcia, 40, 291
- Mus*
 - domesticus*, 232
 - spretus*, 234
- Myrtus* spp., 337

- N**
- National forests, 296, 301
- National parks, 32, 33
- National Parks Law, 367
- Native Americans, 27, 28, 35, 215, 221, 321, 470, 484, 492
- Native Californians, 9, 16, 18, 27, 29, 32, 53, 85, 127, 133, 455
 - management, 27
- Natural Patrimony Law, 367
- Natural Resources Conservation Service (NRCS), 377
- Nature Conservancy, The, 138, 477
- Neolithic caves, 39

- Net operating margin, 328, 395, 397, 412, 415, 418, 419
- Net operating subsidies, 395
- Net Present Value (NPV), 256–259, 265
- Net value added, 396
- NFI. *See* Spanish National Forest Inventory (NFI)
- Non-market products, 472
- Non-target species, 344
- Normalized Difference Vegetation Index (NDVI), 185
- North American Model of Wildlife Conservation, 322
- Nurse plant effect, 168, 172
- Nutrient dynamics, 150
 - California, 106, 107, 114
 - Spain, 96

- O**
- Oak forest, 7, 160
- Oak life cycle, 131
- Oak removal, 111, 115, 127, 148, 161
- Oak savanna, 7, 63
- Oak woodland, 6, 431
- Oak woodland loss, 127
- Oak Woodlands Conservation and Environmental Quality Bill, 492
- Odocoileus hemionus*, 313, 315, 316
- Olea europaea*, 76
- Option value, 357, 483
- Oreortyx* spp., 314
- Organic Act, 33
- Organizations, 477
- Oryctolagus cuniculus*, 227, 229, 313, 314
- Output, 246, 254, 267, 355, 364, 392, 394, 397, 408, 409, 463, 471
 - final, 357
 - indicators, 401, 404, 405
 - intermediate, 357
 - market, 257
 - non-market, 258
 - valuation, 356
- Overgrazing, 222, 227, 340, 367
- Ovis*
 - musimon*, 314
 - orientalis musimon*, 313

- P**
- Parametric autoecological studies, 76
- Passer domesticus*, 232
- Patches, 215
 - properties, 216
- Pathogens, 188
 - bacterial, 189
- Perennial native grasses, 343
 - bunchgrasses, 132, 147, 152
- Perognathus inornatus*, 215
- PES. *See* ecosystem services
- Phainopepla nitens*, 224
- Phasianus colchicus*, 314
- Phoradendron villosum*, 223
- Phyllirea* spp., 337
- Phytophthora*
 - cinnamomii*, 82
 - ramorum*, 360
- Phytophthora ramorum*, 37, 266
- Pica pica*, 199, 335
- Picoides nuttallii*, 221
- Fig. 5, 20, 27, 43, 45, 46, 49, 50, 148, 205, 208, 255, 273, 289, 290, 292, 300, 303, 313, 332, 412, 468, 476, 488. *See also*
 - Sus scrofa*, boars (wild)
 - breeds, 289
 - production, 291
 - supplemental feeding, 401
- Pinchot, Gifford, 33, 35
- Pinus*
 - halepensis*, 490
 - nigra*, 490
 - pinaster*, 490
 - pinea*, 76
 - ponderosa*, 220
 - radiata*, 490
 - sabiana*, 401
 - sabiniana*, 159, 221
 - sylvestris*, 490
- Pistacia lentiscus*, 337
- Poaching, 40, 47, 319, 320, 333, 473
- Poecile rufescens*, 221
- Pollination, 196
- Post-war management, 37
- Predator control, 335, 344
- Private amenities, 254, 255, 259
 - benefits, 391
- Private Lands Management Program (PLM), 325
- Product diversification, 474
- Profitability, 247, 256, 317, 327, 391, 397, 407, 411, 417
 - measure, 413, 416
 - operating, 396, 413, 414
- Profitability rates. *See* profitability
- Progne subis arboricola*, 220
- Protobalanus*, 199
- Pruning, 43, 45, 125, 130, 191, 251, 279
 - studies, 191

Psaltriparus minimus, 221
Psammodromus hispanicus, 232
 Public partnerships, 477
Puma concolor, 335

Q

Quejigal, 8
Quejigos, 287
Quercus, 27, 199, 337
 agrifolia, 12, 64, 135, 147, 152, 185, 186, 190, 218, 266
 canariensis, 8, 147
 chrysolepis, 64, 185, 186, 435
 coccifera, 19, 39, 200
 douglasii, 7, 13, 64, 106, 127, 136, 139, 159, 185, 186, 198, 218, 266, 399, 435
 engelmannii, 12, 64, 128, 147, 190, 192, 435
 faginea, 8, 147, 200, 287, 431
 faginea broteroi, 76
 faginea faginea, 76
 garryana, 64, 75, 192, 435
 humilis, 185, 186
 ilex, 9, 13, 39, 76, 147, 185, 186, 203, 227, 246, 405, 431
 ilex ballota, 192, 278
 ilex ilex, 192
 kelloggii, 64, 185, 186, 220, 435
 lobata, 12, 64, 127, 185, 186, 197, 218, 220, 279, 434, 435
 pyrenaica, 8, 76, 147, 200, 392, 431
 robur, 189
 rotundifolia, 278
 rubra, 185
 suber, 7, 76, 147, 185, 186, 226, 278, 404, 405, 431, 488
 velutina, 185
 wislizenii, 12, 64, 147, 159, 192, 266, 435

R

Ranch, 7, 12, 13
 Ranchers, 294
 Ranching techniques, 295
Ranchos, 29, 31, 51
 Rangeland improvement, 37
 RE. *See* Rewilding Europe (RE)
 RECAMAN. *See* Valoración de la Renta y el Capital de los Montes de Andalucía (RECAMAN)
 Reconquest, 39
 Recruitment, 132, 492

failure, 130, 132, 138
 limitations, 131, 139, 165
 understory effects, 165, 167
 Regeneration, 18, 125, 128, 130, 132, 133, 135, 137, 138, 171, 234, 247, 256, 266, 466, 467, 469, 489
 trade-offs, 196
 Regeneration felling, 249
 Regulation, 477
Rehaleros, 321
 Remote Sensing (RS), 429–431
 Report on the Protection of the Dehesa Ecosystem, 490
 Reproductive stages, 130
Res nullius, 322
 Research approaches, 478
 archival, 483
 comparative, 485
 field research, 478
 interviews, 479
 surveys, 480
 Residual dry matter, 297
 Restoration, 134
Retama, 154
 Rewilding Europe (RE), 469
 Riparian habitat, 219
 Rock walls, 280
 Roman, 6, 15, 39, 54, 41, 470
 Root profiles, 162, 163
 RS. *See* Remote Sensing (RS)
Rupicabra rupicabra, 314
 Rural depopulation, 468

S

Sampson, 35
 Scientific range management, 35, 44
Sciurus griseus, 316
Scolopax rusticola, 314
Seca disease, 82
 SHARE. *See* Shared Habitat Alliance for Recreational Enhancement (SHARE)
 Shared Habitat Alliance for Recreational Enhancement (SHARE), 325
 Sheep, 282, 299
 production, 300
 products, 283
 Shoot defoliation, 189
 Shrub
 encroachment, 18, 39, 97, 125, 132, 160, 162, 167, 170, 171, 234, 236, 336, 468
 management, 337

- Sialia mexicana*, 223
- Silvopastoral
 management, 19, 246, 247, 261, 266
 model, 246, 249, 258, 265, 267
 system, 280, 433
- Simulated Exchange Value (SEV) method, 363
- SISPARES. *See* Spanish Rural Landscape Monitoring System (SISPARES)
- Soil, 17, 434
 California, 104, 105
 degradation, 97, 101
 dynamics comparison, 116
 effects on regeneration, 169
 erosion, 341
 properties, 92, 151
 properties, California, 104, 106, 107, 113
 properties, Spain, 94, 95
 Spain, 93, 95
 water dynamics, 103, 151
- Soil types
 Acrisol, 93
 Alfisol, 105
 California, 105, 109
 cambisol, 93
 inceptisol, 105
 leptosol, 93
 luvisol, 93
 mollisol, 105
 Spain, 93
- Spanish Civil War, 332
- Spanish Constitution, 44
- Spanish Ministry of Agriculture, 41
- Spanish National Forest Inventory (NFI), 77, 247
- Spanish Rural Landscape Monitoring System (SISPARES), 436
- Spanish War of Independence, 44, 53
- Spatial synchrony, 197
 Moran effect, 198
 pollen coupling, 198
- Species densities, 225, 226, 229, 231
- Species-environment interactions, 148
- Species richness, 215, 216, 225, 236
- State and transition models, 266
- State Board of Forestry, 492
- Stockponds, 219
- Streptopelia turtur*, 314
- Strix occidentalis caurina*, 361
- Struthio camelus*, 297
- Study of Critical Environmental Problems* (SCEP), 355
- Subsidies, 38, 254, 286, 366, 367, 394
 planting, 137
- Sudden Oak Death (SOD). *See* *Phytophthora ramorum*
- Sus scrofa*, 227, 313, 314, 316, 468. *See also* pig, boars (wild)
- Sustainability, 493
- Sylvilagus* spp., 316
- System of National Accounts (SNA), 256, 391, 392
- T**
- Thomomys* spp., 136
- Thryomanes bewickii*, 223
- Top-down population regulation, 329
- Topography, 451
- Toro de lidia*, 282
- Toros bravos*. *See* fighting bulls
- Total Economic Value (TEV), 357
- Transhumance, 32, 40, 46, 276, 280, 283, 296, 299, 381
- Translation, 6, 479
- Tree
 density, 158, 172, 253
 distribution, 161, 183, 184, 197, 279
 removal, 170
- Turdus*
merula, 232
 spp., 314
- TWINSPAN. *See* Two-Way Indicator Species Analysis (TWINSPAN)
- Two-Way Indicator Species Analysis (TWINSPAN), 439, 447, 449
- U**
- Ulex*, 147
- Understory, 153
 effects on wildlife, 231
 production, 149, 151, 155
 species composition, 148, 152
- United Nations University—International Human Dimensions Programme and United Nations Environment Programme (UNU-IHDP and UNEP)
- United States Forest Service, 32, 35, 223, 266, 301
- Urban development, 223, 467
- Urocyon cinereoargenteus*, 335
- Ursus arctos horribilis*, 344
- Useful Agricultural Land (UAL), 247

V

- Valoración de la Renta y el Capital de los Montes de Andalucía (RECAMAN), 13, 365, 396
- Vareador*, 292
- Vegetation conversion, 115, 116
- Vegetation patterns, 452
- Vegetation Type Map (VTM), 65, 67, 68, 70, 72, 73
- Vicugna pacos*, 297
- Vineyards, 222
- Vireo*
 - bellii pusillus*, 219
 - cassini*, 223
 - huttoni*, 224
- VTM. *See* Vegetation Type Map (VTM)
- Vulpes*
 - macrotis mutica*, 222
 - vulpes*, 335

W

- Water dynamics, 17, 92, 162, 163
 - California, 112
 - comparison, 116
 - Spain, 101
- Water quality, 341, 375
 - California, 114
- Water yield, 115, 478

Weed control, 135, 136, 165

WHIP. *See* Wildlife Habitat Incentives Program (WHIP)

Wildlife, 281, 466

- California oak woodland, 215
- conservation status, California, 217
- grazing, 260
- habitat, 375, 471
- impacts on regeneration, 278
- landscape effects, 232
- practices comparison, 322
- Spain, 224

Wildlife Habitat Incentives Program (WHIP), 377

Wildlife management

- animal densities, 340
- genetic impacts, 341
- population structure, 343
- scale, 217, 233, 234

Williamson Act, 38, 368, 492

Woodland conversion, 223

Working landscape, 10, 236, 380, 391

World Trade Organization (WTO), 491

World War II, 6, 32, 35, 36, 54, 470

Z

Zoning, 368, 467