# Subject Index, Volumes 77–81

**Accumulation**
- Accumulation of heavy metals in food plants and grasshoppers from the Taigetos Mountains, Greece, 78 (2000) 85

**Active organic C pool**
- The impact of land clearing and agricultural practices on soil organic C fractions and CO₂ efflux in the Northern Guam aquifer, 79 (2000) 17

**Adoption**
- Econometric analysis of the determinants of adoption of alley farming by farmers in the forest zone of southwest Cameroon, 80 (2000) 255

**Africa**
- Human population growth and the extinction of the tsetse fly, 77 (2000) 227

**Aggregate stability**
- The effect of dandelion or a cover crop on mycorrhiza inoculum potential, soil aggregation and yield of maize, 78 (2000) 167

**Agricultural fields**
- Water quality of seasonally flooded agricultural fields in Mississippi, USA, 81 (2000) 171

**Agricultural intensification**
- Factors affecting corn bunting *Miliaria calandra* abundance in a Portuguese agricultural landscape, 77 (2000) 219

**Agricultural land**
- Modelling populations of *Erigone atra* and *E. dentipalpis* (Araneae: Linyphiidae) across an agricultural gradient in Scotland, 80 (2000) 15

**Agricultural landscapes**
- Effect of woody borders on insect density and diversity in crop fields: a landscape-scale analysis, 78 (2000) 115
- Spatial dynamics of wood mouse (*Apodemus sylvaticus*) in an agricultural landscape under intensive use in the Mont Saint Michel Bay (France), 78 (2000) 159

**Agricultural systems**
- A generalized environmental sustainability index for agricultural systems, 79 (2000) 29

**Agricultural transport**
- Changing minor rural road networks in relation to landscape sustainability and farming practices in West Europe, 77 (2000) 95

**Agriculture**
- Estimation of the impact of fertilisation rate on nitrate leaching in Finland using a mathematical simulation model, 80 (2000) 1
- On crop production and the balance of available resources, 80 (2000) 71

**Agriculture and the environment**

**Agroecosystem characterisation**
- On crop production and the balance of available resources, 80 (2000) 71

**Agroecosystem performance indicators**
- An input/output methodology to evaluate farms as sustainable agroecosystems: an application of indicators to farms in central Italy, 77 (2000) 111

**Agroecosystems**
- Post-dispersal weed seed predation in Michigan crop fields as a function of agricultural landscape structure, 77 (2000) 193
- Increasing the efficiency of plant nutrient recycling within the agricultural system as a way of reducing the load to the environment — experience from Sweden and Finland, 80 (2000) 169

**Agroforestry**
- Shade effect on coffee production at the northern Tzeltal zone of the state of Chiapas, Mexico, 80 (2000) 61
- A general tree-environment-crop interaction equation for predictive understanding of agroforestry systems, 80 (2000) 87

**PII:** S0167-2689(00)00252-8
Productivity, microclimate and water use in *Grevillea robusta*-based agroforestry systems on hillslopes in semi-arid Kenya, 80 (2000) 121
Econometric analysis of the determinants of adoption of alley farming by farmers in the forest zone of southwest Cameroon, 80 (2000) 255

**Agronomic performance**

**Alfalfa**
Water quality implications of nitrate leaching from intensively grazed pasture swards in the northeast US, 77 (2000) 203

**Allelopathy**
Phytotoxic effects of red clover amended soils on wild mustard seedling growth, 78 (2000) 187

**Alley cropping**
Econometric analysis of the determinants of adoption of alley farming by farmers in the forest zone of southwest Cameroon, 80 (2000) 255

**Aluminium toxicity**
Uncertainties in the appraisal of water availability and consequences for simulated sugarcane yield potentials in São Paulo State, Brazil, 81 (2000) 43

**Andalucia region**
Assessment of soil erosion vulnerability in western Europe and potential impact on crop productivity due to loss of soil depth using the ImpelERO model, 81 (2000) 179

**Animal production**
Comparison of grassland management systems for beef cattle using self-contained farmlets: effects of contrasting nitrogen inputs and management strategies on nitrogen budgets, and herbage and animal production, 80 (2000) 243

**Apodemus sylvaticus**
Spatial dynamics of wood mouse (*Apodemus sylvaticus*) in an agricultural landscape under intensive use in the Mont Saint Michel Bay (France), 78 (2000) 159

**Arable field plants**
Species diversity as a task for organic agriculture in Europe, 77 (2000) 101

**Arable fields**
The effects of nitrogen and diaspore availability on the regeneration of weed communities following extensification, 77 (2000) 237

**Arable land**

**Arable plant communities**
Development of vegetation on set-aside land for up to nine years from a national perspective, 79 (2000) 159

**Arbuscular mycorrhiza**
The specificity of arbuscular mycorrhizal fungi in perennial ryegrass–white clover pasture, 77 (2000) 211

**Assimilates**
Effects of different ozone exposure regimes on photosynthesis, assimilates and thousand grain weight in spring wheat, 78 (2000) 49

**Asulam**

**Auchenorrhyncha**
Plant succession in perennial grass strips and effects on the diversity of leafhoppers (Homoptera, Auchenorrhyncha), 80 (2000) 101

**Available water capacity**
A spatial approach using imprecise soil data for modelling crop yields over vast areas, 81 (2000) 5

**Azolla application**
Influence of incorporation or dual cropping of *Azolla* on methane emission from a flooded alluvial soil planted to rice in eastern India, 79 (2000) 73

**Bacteria**
Water quality of seasonally flooded agricultural fields in Mississippi, USA, 81 (2000) 171

**Baltic Sea**
Increasing the efficiency of plant nutrient recycling within the agricultural system as a way of reducing the load to the environment — experience from Sweden and Finland, 80 (2000) 169

**Basal area**
An assessment of the spatial variability of basal area in a terrain covered by Mediterranean woodlands, 81 (2000) 17

**Beef cattle**
Comparison of grassland management systems for beef cattle using self-contained farmlets: effects of contrasting nitrogen inputs and management strategies on nitrogen budgets, and herbage and animal production, 80 (2000) 243

**Beneficial arthropods**
**Beta vulgaris L.**
Adjustment procedures of a crop model to the site specific characteristics of soil and crop using remote sensing data assimilation, 81 (2000) 57

**Bhutan**
Effects and possible causes of an unprecedented rice blast epidemic on the traditional farming system of Bhutan, 78 (2000) 237

**Bioaccumulation factors**
Accumulation of heavy metals in food plants and grasshoppers from the Taigetos Mountains, Greece, 78 (2000) 85

**Biodiversity**
Species diversity as a task for organic agriculture in Europe, 77 (2000) 101
Human population growth and the extinction of the tsetse fly, 77 (2000) 227
Effect of woody borders on insect density and diversity in crop fields: a landscape-scale analysis, 78 (2000) 115
Weedy fields and forests: interactions between land use and the composition of plant communities in the Peruvian Amazon, 78 (2000) 175
Grazing induced biodiversity in the highland ecozone of East Africa, 79 (2000) 43
Development of vegetation on set-aside land for up to nine years from a national perspective, 79 (2000) 159
Plant succession in perennial grass strips and effects on the diversity of leafhoppers (Homoptera, Auchenorrhyncha), 80 (2000) 101
Linear features and butterflies: the importance of green lanes, 80 (2000) 227

**Biomass energy**
Potential production and environmental effects of switchgrass and traditional crops under current and greenhouse-altered climate in the central United States: a simulation study, 78 (2000) 31

**Biomass partitioning**
Response of Chromolaena odorata to timber tree densities in an agrisilvicultural system in Cameroon: aboveground biomass, residue decomposition and nutrient release, 81 (2000) 191

**Biotope**
Species diversity as a task for organic agriculture in Europe, 77 (2000) 101

**Bird assemblage structure**
Bird assemblages of an Iberian cereal steppe, 78 (2000) 65

**Bombus**

**Botanical composition**
Botanical composition, soil and forage quality under different management regimes in Russian grasslands, 80 (2000) 213

**Bracken**
Drift control and buffer zones for helicopter spraying of bracken (Pteridium aquilinum), 79 (2000) 215

**Breeding abundance**
Factors affecting corn bunting Miliaria calandra abundance in a Portuguese agricultural landscape, 77 (2000) 219

**Buffer zones**
Drift control and buffer zones for helicopter spraying of bracken (Pteridium aquilinum), 79 (2000) 215

**Bumble bees**

**Butterfly abundance**
Linear features and butterflies: the importance of green lanes, 80 (2000) 227

**Calluna vulgaris**
Grazing alone is not enough to maintain landscape diversity in the Montseny Biosphere Reserve, 77 (2000) 267

**Cameroon**
Econometric analysis of the determinants of adoption of alley farming by farmers in the forest zone of southwest Cameroon, 80 (2000) 255
Response of Chromolaena odorata to timber tree densities in an agrisilvicultural system in Cameroon: aboveground biomass, residue decomposition and nutrient release, 81 (2000) 191

**Canada**
Effect of woody borders on insect density and diversity in crop fields: a landscape-scale analysis, 78 (2000) 115

**Carbohydrate**
Changes in carbohydrates, leaf pigments and yield in potatoes induced by different ozone exposure regimes, 78 (2000) 149

**Carrying capacity**
Evaluation of the livestock carrying capacity of land resources in the Hills of Nepal based on total digestive nutrient analysis, 78 (2000) 223

**Catchment**
Variation of phosphorus loss from a small Catchment in south Devon, UK, 79 (2000) 143

**Cd**
Accumulation of heavy metals in food plants and grasshoppers from the Taigetos Mountains, Greece, 78 (2000) 85

**CEDAPA**
Adaptation and use of a fuzzy expert system to assess the environmental effect of pesticides applied to field crops, 80 (2000) 143
Census of agriculture
Canadian agri-environmental indicators related to land quality: integrating census and biophysical data to estimate soil cover, wind erosion and soil salinity, 81 (2000) 113

Central US
Potential production and environmental effects of switchgrass and traditional crops under current and greenhouse-altered climate in the central United States: a simulation study, 78 (2000) 31

Cereal cultivation
Bird assemblages of an Iberian cereal steppe, 78 (2000) 65

Change point
Variation of phosphorus loss from a small Catchment in south Devon, UK, 79 (2000) 143

Checklist
The process of landscape evaluation. Introduction to the 2nd special AGEE issue of the concerted action: “The landscape and nature production capacity of organic/sustainable types of agriculture”, 77 (2000) 1

Landscape quality on organic farms in the Messara valley, Crete. Organic farms as components in the landscape, 77 (2000) 79

Chlorophyll
Elevated CO2 provides protection from O3 induced photosynthetic damage and chlorophyll loss in flag leaves of spring wheat (Triticum aestivum L., cv. ‘Minaret’), 80 (2000) 159

Chromolaena odorata
Response of Chromolaena odorata to timber tree densities in an agrisilvicultural system in Cameroon: aboveground biomass, residue decomposition and nutrient release, 81 (2000) 191

Climate
Standardized precipitation index and nitrogen rate effects on crop yields and risk distribution in maize, 80 (2000) 113

Climate change
Potential production and environmental effects of switchgrass and traditional crops under current and greenhouse-altered climate in the central United States: a simulation study, 78 (2000) 31

CO2 enrichment
Leaf nitrogen concentration of wheat subjected to elevated [CO2] and either water or N deficits, 79 (2000) 53

Coffee
Shade effect on coffee production at the northern Tzeltal zone of the state of Chiapas, Mexico, 80 (2000) 61

Compost

Comparison of conventional and alternative vegetable farming systems on the properties of a yellow earth in New South Wales, 80 (2000) 47

Compost amendment

Concepts
On crop production and the balance of available resources, 80 (2000) 71

Connectivity
Spatial dynamics of wood mouse (Apodemus sylvaticus) in an agricultural landscape under intensive use in the Mont Saint Michel Bay (France), 78 (2000) 159

Constraint satisfaction problem
A spatial approach using imprecise soil data for modelling crop yields over vast areas, 81 (2000) 5

Contour hedgerows
Farmer participatory research to minimize soil erosion on steepland vegetable systems in the Philippines, 79 (2000) 113

Conventional
The application of parameters designed to measure nature conservation and landscape development on Irish farms, 77 (2000) 65

Correspondence analysis
Floristic composition of established vegetation and the soil seed bank in pasture communities under different traditional management regimes, 78 (2000) 273

Cost-effective monitoring methods
Practical and cost-effective indicators and procedures for monitoring the impacts of rural development projects on land quality and sustainable land management, 81 (2000) 147

Cover
Shade effect on coffee production at the northern Tzeltal zone of the state of Chiapas, Mexico, 80 (2000) 61

Cowpea
Legumes for improving maize yields and income in semi-arid Kenya, 78 (2000) 123

Crete
Landscape quality on organic farms in the Messara valley, Crete. Organic farms as components in the landscape, 77 (2000) 79

Criteria system
Subject Index, Volumes 77–81

Critical levels
An international cooperative programme indicates the widespread occurrence of ozone injury on crops, 78 (2000) 19

Crop model
A spatial approach using imprecise soil data for modelling crop yields over vast areas, 81 (2000) 5

Crop modelling
Uncertainties in the appraisal of water availability and consequences for simulated sugarcane yield potentials in São Paulo State, Brazil, 81 (2000) 43

Crop production
A general tree-environment-crop interaction equation for predictive understanding of agroforestry systems, 80 (2000) 87

Crop productivity
Assessment of soil erosion vulnerability in western Europe and potential impact on crop productivity due to loss of soil depth using the ImpelERO model, 81 (2000) 179

Crop rotations
Standardized precipitation index and nitrogen rate effects on crop yields and risk distribution in maize, 80 (2000) 113

Cropland area
Deforestation of woodlands in communal areas of Zimbabwe: is it due to agricultural policies? 79 (2000) 9

Cropping sequences
Farmer participatory research to minimize soil erosion on steepland vegetable systems in the Philippines, 79 (2000) 113

Cropping systems
Methane efflux from rice-based cropping systems under humid tropical conditions of eastern India, 79 (2000) 85
Nitrogen mass balances in conventional, integrated and ecological cropping systems and the relationship between balance calculations and nitrogen runoff in an 8-year field experiment in Norway, 79 (2000) 199

Crops
An international cooperative programme indicates the widespread occurrence of ozone injury on crops, 78 (2000) 19

Cultivation
Land use effects on soil quality in a tropical forest ecosystem of Bangladesh, 79 (2000) 9

Dandelion (Taraxacum officinale Weber ex Wigg.)
The effect of dandelion or a cover crop on mycorrhiza inoculum potential, soil aggregation and yield of maize, 78 (2000) 167

Data quality requirement
Sensitivity and uncertainty analysis in spatial modelling based on GIS, 81 (2000) 71

Decision support
Adaptation and use of a fuzzy expert system to assess the environmental effect of pesticides applied to field crops, 80 (2000) 143

Decision support systems
Indicators for sustainable land management based on farmer surveys in Vietnam, Indonesia, and Thailand, 81 (2000) 137

Deforestation
Land use effects on soil quality in a tropical forest ecosystem of Bangladesh, 79 (2000) 9
Deforestation of woodlands in communal areas of Zimbabwe: is it due to agricultural policies? 79 (2000) 175

Denitrification rate
Influence of water table and nitrogen management on residual soil NO3− and denitrification rate under corn production in sandy loam soil in Quebec, 79 (2000) 187

Denmark
Estimating legume N2 fixation in grass-clover mixtures of a grazed organic cropping system using two 15N methods, 78 (2000) 139

Deterioration index
Land use effects on soil quality in a tropical forest ecosystem of Bangladesh, 79 (2000) 9

Dicyandiamide
Reducing nitrous oxide emission from an irrigated rice field of North India with nitrification inhibitors, 81 (2000) 163

Dinitrogen fixation
Estimating legume N2 fixation in grass-clover mixtures of a grazed organic cropping system using two 15N methods, 78 (2000) 139

Disease
Review of the factors affecting the decline of the European brown hare, Lepus europaeus (Pallas, 1778) and the use of wildlife incident data to evaluate the significance of paraquat, 79 (2000) 95

Dispersal
Effect of woody borders on insect density and diversity in crop fields: a landscape-scale analysis, 78 (2000) 115

Dissipation
Dissipation of herbicides in soil and grapes in a South Australian vineyard, 78 (2000) 283

Diversity
Effects of repeated sewage sludge application on plant community diversity and structure under agricultural field conditions on Podzolic soils in eastern Quebec, 81 (2000) 209
Diversity and coherence
A checklist approach to evaluate the contribution of organic farms to landscape quality, 77 (2000) 143

DNC
Benefits of rotational grazing and dense nesting cover for island-nesting waterfowl in southern Quebec, 78 (2000) 261

Dose–response relationship
Effects of different ozone exposure regimes on photosynthesis, assimilates and thousand grain weight in spring wheat, 78 (2000) 49

Drift
Drift control and buffer zones for helicopter spraying of bracken (Pteridium aquilinum), 79 (2000) 215

Dry season
Methane efflux from rice-based cropping systems under humid tropical conditions of eastern India, 79 (2000) 85

Ducks
Benefits of rotational grazing and dense nesting cover for island-nesting waterfowl in southern Quebec, 78 (2000) 261

E. dentipalpis
Modelling populations of Erigone atra and E. dentipalpis (Araneae: Linyphiidae) across an agricultural gradient in Scotland, 80 (2000) 15

East African Highlands
Diagnostic indicators of soil quality in productive and non-productive smallholders’ fields of Kenya’s Central Highlands, 79 (2000) 1

EBHS
Review of the factors affecting the decline of the European brown hare, Lepus europaeus (Pallas, 1778) and the use of wildlife incident data to evaluate the significance of paraquat, 79 (2000) 95

Ecological agriculture
The contribution of organic agriculture to landscape quality in the Sogn og Fjordane region of Western Norway, 77 (2000) 125

Ecological specificity
The specificity of arbuscular mycorrhizal fungi in perennial ryegrass–white clover pasture, 77 (2000) 211

Economics

Elevated CO₂
Elevated CO₂ provides protection from O₃ induced photosynthetic damage and chlorophyll loss in flag leaves of spring wheat (Triticum aestivum L., cv. ‘Minaret’), 80 (2000) 159

Elevated O₃
Elevated CO₂ provides protection from O₃ induced photosynthetic damage and chlorophyll loss in flag leaves of spring wheat (Triticum aestivum L., cv. ‘Minaret’), 80 (2000) 159

El-Niño effect
Yield decline of sweet potato in the humid lowlands of Papua New Guinea, 79 (2000) 259

Emissions
Influence of water table and nitrogen management on residual soil NO₃⁻ and denitrification rate under corn production in sandy loam soil in Quebec, 79 (2000) 187

Environment
Farm sustainability evaluation: methodology and practice, 77 (2000) 43

Environmental effect assessment
Adaptation and use of a fuzzy expert system to assess the environmental effect of pesticides applied to field crops, 80 (2000) 143

Environmental impacts
A generalized environmental sustainability index for agricultural systems, 79 (2000) 29

Environmental monitoring
Effects of repeated sewage sludge application on plant community diversity and structure under agricultural field conditions on Podzolic soils in eastern Quebec, 81 (2000) 209

Environmentally sensitive areas
DITCH: a model to simulate field conditions in response to ditch levels managed for environmental aims, 77 (2000) 179

EPIC
Potential production and environmental effects of switchgrass and traditional crops under current and greenhouse-altered climate in the central United States: a simulation study, 78 (2000) 31

EPIC model
Farmer participatory research to minimize soil erosion on steepland vegetable systems in the Philippines, 79 (2000) 113

Erica arborea
Grazing alone is not enough to maintain landscape diversity in the Montseny Biosphere Reserve, 77 (2000) 267
Erigone atra
Modelling populations of Erigone atra and E. dentipalpis (Araneae: Linyphiidae) across an agricultural gradient in Scotland, 80 (2000) 15

Erosion control
Water quality of seasonally flooded agricultural fields in Mississippi, USA, 81 (2000) 171

Erosion plots

Error analysis
Uncertainties in the appraisal of water availability and consequences for simulated sugarcane yield potentials in São Paulo State, Brazil, 81 (2000) 43

Error propagation
Adjustment procedures of a crop model to the site specific characteristics of soil and crop using remote sensing data assimilation, 81 (2000) 57

Essential oil
Integrated nutrient management and waste recycling for restoring soil fertility and productivity in Japanese mint and mustard sequence in Uttar Pradesh, India, 80 (2000) 267

Ethnobotany
Weedy fields and forests: interactions between land use and the composition of plant communities in the Peruvian Amazon, 78 (2000) 175

Europe
An international cooperative programme indicates the widespread occurrence of ozone injury on crops, 78 (2000) 19

Evaluation

Expert system
Adaptation and use of a fuzzy expert system to assess the environmental effect of pesticides applied to field crops, 80 (2000) 143
Assessment of soil erosion vulnerability in western Europe and potential impact on crop productivity due to loss of soil depth using the ImpelERO model, 81 (2000) 179

Extended FAST
Sensitivity and uncertainty analysis in spatial modelling based on GIS, 81 (2000) 71

Fallow
Factors affecting corn bunting Miliaria calandra abundance in a Portuguese agricultural landscape, 77 (2000) 219
Weedy fields and forests: interactions between land use and the composition of plant communities in the Peruvian Amazon, 78 (2000) 175

Fallow crop

Farm accountancy network
Farm sustainability evaluation: methodology and practice, 77 (2000) 43

Farm development
The process of landscape evaluation. Introduction to the 2nd special AGEE issue of the concerted action: “The landscape and nature production capacity of organic/sustainable types of agriculture”, 77 (2000) 1

Farm evaluation
Farm sustainability evaluation: methodology and practice, 77 (2000) 43

Farm surveys
Indicators for sustainable land management based on farmer surveys in Vietnam, Indonesia, and Thailand, 81 (2000) 137

Farmer participatory research
Farmer participatory research to minimize soil erosion on steepland vegetable systems in the Philippines, 79 (2000) 113

Farmers perceptions

Farming by soil
Assessment of soil erosion vulnerability in western Europe and potential impact on crop productivity due to loss of soil depth using the ImpelERO model, 81 (2000) 179

Farming systems
An input/output methodology to evaluate farms as sustainable agroecosystems: an application of indicators to farms in central Italy, 77 (2000) 111
Increasing the efficiency of plant nutrient recycling within the agricultural system as a way of reducing the load to the environment — experience from Sweden and Finland, 80 (2000) 169
Farmland birds
Local extinctions and changes in species richness of lowland farmland birds in England and Wales in relation to recent changes in agricultural land-use, 78 (2000) 1

Farmlets
Comparison of grassland management systems for beef cattle using self-contained farmlets: effects of contrasting nitrogen inputs and management strategies on nitrogen budgets, and herbage and animal production, 80 (2000) 243

Farmyard manure
Plant nutrient contents of cattle manures from small-scale farms and experimental stations in the Ethiopian highlands, 78 (2000) 57

Fen

Fencerows
Effect of woody borders on insect density and diversity in crop fields: a landscape-scale analysis, 78 (2000) 115

Fenland

Ferralsols
Uncertainties in the appraisal of water availability and consequences for simulated sugarcane yield potentials in São Paulo State, Brazil, 81 (2000) 43

Fertilisation
Estimation of the impact of fertilisation rate on nitrate leaching in Finland using a mathematical simulation model, 80 (2000) 1

Fertilizer recovery

Field CO₂ emission
Influence of land-use management on CO₂ emissions from a silt loam soil in New Zealand, 77 (2000) 257

Field margins
Linear features and butterflies: the importance of green lanes, 80 (2000) 227

Finland
Plant succession in perennial grass strips and effects on the diversity of leafhoppers (Homoptera, Auchenorrhyncha), 80 (2000) 101

Flooded rice
Methane efflux from rice-based cropping systems under humid tropical conditions of eastern India, 79 (2000) 85

Flooded soil
Influence of incorporation or dual cropping of Azolla on methane emission from a flooded alluvial soil planted to rice in eastern India, 79 (2000) 73

Flooding
DITCH: a model to simulate field conditions in response to ditch levels managed for environmental aims, 77 (2000) 179

Floristic composition
Floristic composition of established vegetation and the soil seed bank in pasture communities under different traditional management regimes, 78 (2000) 273

Forage quality
Leaf nitrogen concentration of wheat subjected to elevated [CO₂] and either water or N deficits, 79 (2000) 53
Botanical composition, soil and forage quality under different management regimes in Russian grasslands, 80 (2000) 213

France
Adaptation and use of a fuzzy expert system to assess the environmental effect of pesticides applied to field crops, 80 (2000) 143

Functional types
Development of vegetation on set-aside land for up to nine years from a national perspective, 79 (2000) 159

Fuzzy logic
Adaptation and use of a fuzzy expert system to assess the environmental effect of pesticides applied to field crops, 80 (2000) 143

Gas exchange
Elevated CO₂ provides protection from O₃ induced photosynthetic damage and chlorophyll loss in flag leaves of spring wheat (Triticum aestivum L., cv. ‘Minaret’), 80 (2000) 159

Geostatistics
Modelling, interpolation and stochastic simulation in space and time of global solar radiation, 81 (2000) 29

Germany
The effects of nitrogen and diaspore availability on the regeneration of weed communities following extensification, 77 (2000) 237
Effects of different ozone exposure regimes on photosynthesis, assimilates and thousand grain weight in spring wheat, 78 (2000) 49
Changes in carbohydrates, leaf pigments and yield in potatoes induced by different ozone exposure regimes, 78 (2000) 149
Germination chamber
Floristic composition of established vegetation and the soil seed bank in pasture communities under different traditional management regimes, 78 (2000) 273

GIS
Human population growth and the extinction of the tsetse fly, 77 (2000) 227
Spatial dynamics of wood mouse (Apodemus sylvaticus) in an agricultural landscape under intensive use in the Mont Saint Michel Bay (France), 78 (2000) 159
Pollution of surface waters with pesticides in Germany: modeling non-point source inputs, 80 (2000) 191
A spatial approach using imprecise soil data for modelling crop yields over vast areas, 81 (2000) 5

Gliricidia
Legumes for improving maize yields and income in semi-arid Kenya, 78 (2000) 123

Goat farming
The contribution of organic agriculture to landscape quality in the Sogn og Fjordane region of Western Norway, 77 (2000) 125

Grain yield
Influence of incorporation or dual cropping of Azolla on methane emission from a flooded alluvial soil planted to rice in eastern India, 79 (2000) 73

Grape
Dissipation of herbicides in soil and grapes in a South Australian vineyard, 78 (2000) 283

Grass strip
Plant succession in perennial grass strips and effects on the diversity of leafhoppers (Homoptera, Auchenorrhyncha), 80 (2000) 101

Grassshoppers
Accumulation of heavy metals in food plants and grasshoppers from the Taigetos Mountains, Greece, 78 (2000) 85

Grazing
Water quality implications of nitrate leaching from intensively grazed pasture swards in the northeast US, 77 (2000) 203
Can plant palatability trials be used to predict the effect of rabbit grazing on the flora of ex-arable land? 78 (2000) 249

Green manure
Phytotoxic effects of red clover amended soils on wild mustard seedling growth, 78 (2000) 187

Grevillea robusta
Productivity, microclimate and water use in Grevillea robusta-based agroforestry systems on hillslopes in semi-arid Kenya, 80 (2000) 121

Gross load

Habitat selection

Hare
Review of the factors affecting the decline of the European brown hare, Lepus europaeus (Pallas, 1778) and the use of wildlife incident data to evaluate the significance of paraquat, 79 (2000) 95

Heavy metals
Accumulation of heavy metals in food plants and grasshoppers from the Taigetos Mountains, Greece, 78 (2000) 85

Hedgerow intercropping
Legumes for improving maize yields and income in semi-arid Kenya, 78 (2000) 123

Helicopter spraying
Drift control and buffer zones for helicopter spraying of bracken (Pteridium aquilinum), 79 (2000) 215

Herbage production
Comparison of grassland management systems for beef cattle using self-contained farmlets: effects of contrasting nitrogen inputs and management strategies on nitrogen budgets, and herbage and animal production, 80 (2000) 243

Herbicides
Dissipation of herbicides in soil and grapes in a South Australian vineyard, 78 (2000) 283
Review of the factors affecting the decline of the European brown hare, Lepus europaeus (Pallas, 1778) and the use of wildlife incident data to evaluate the significance of paraquat, 79 (2000) 95

Herbivory
Can plant palatability trials be used to predict the effect of rabbit grazing on the flora of ex-arable land? 78 (2000) 249

Heterogeneity
Spatial dynamics of wood mouse (Apodemus sylvaticus) in an agricultural landscape under intensive use in the Mont Saint Michel Bay (France), 78 (2000) 159

Hg
Accumulation of heavy metals in food plants and grasshoppers from the Taigetos Mountains, Greece, 78 (2000) 85

Horticulture
Humic Nitisol
Diagnostic indicators of soil quality in productive and non-productive smallholders’ fields of Kenya’s Central Highlands, 79 (2000) 1

Humid tropics
Response of Chromolaena odorata to timber tree densities in an agrisilvicultural system in Cameroon: aboveground biomass, residue decomposition and nutrient release, 81 (2000) 191

Hydrologic model
Sensitivity and uncertainty analysis in spatial modelling based on GIS, 81 (2000) 71

Hydrology
DITCH: a model to simulate field conditions in response to ditch levels managed for environmental aims, 77 (2000) 179

Impact monitoring
Practical and cost-effective indicators and procedures for monitoring the impacts of rural development projects on land quality and sustainable land management, 81 (2000) 147

Impacts of agricultural changes
Bird assemblages of an Iberian cereal steppe, 78 (2000) 65

Implementation procedure

Imprecision
A spatial approach using imprecise soil data for modelling crop yields over vast areas, 81 (2000) 5

Incidents
Review of the factors affecting the decline of the European brown hare, Lepus europaeus (Pallas, 1778) and the use of wildlife incident data to evaluate the significance of paraquat, 79 (2000) 95

Increasing versus decreasing returns
Patterns of input–output relations in agro-ecosystems, 79 (2000) 233

Index number theory
A generalized environmental sustainability index for agricultural systems, 79 (2000) 29

Indicators
Canadian agri-environmental indicators related to land quality: integrating census and biophysical data to estimate soil cover, wind erosion and soil salinity, 81 (2000) 113
The development of land quality indicators for soil degradation by water erosion, 81 (2000) 125

Industrial versus natural resources
Patterns of input–output relations in agro-ecosystems, 79 (2000) 233

Injury
An international cooperative programme indicates the widespread occurrence of ozone injury on crops, 78 (2000) 19

Inorganic labile P
Use of a fractionation procedure to assess the potential for P movement in a soil profile after 14 years of liquid pig manure fertilization, 78 (2000) 77

Inorganic nitrogen fertilizer

Input use efficiency
Patterns of input–output relations in agro-ecosystems, 79 (2000) 233

Input/output model
An input/output methodology to evaluate farms as sustainable agroecosystems: an application of indicators to farms in central Italy, 77 (2000) 111

Insect density
Effect of woody borders on insect density and diversity in crop fields: a landscape-scale analysis, 78 (2000) 115

Insect diversity
Effect of woody borders on insect density and diversity in crop fields: a landscape-scale analysis, 78 (2000) 115

Integrated farming

Integrated nutrient management
Integrated nutrient management and waste recycling for restoring soil fertility and productivity in Japanese mint and mustard sequence in Uttar Pradesh, India, 80 (2000) 267

Interaction equation
A general tree-environment-crop interaction equation for predictive understanding of agroforestry systems, 80 (2000) 87

Ireland
Elevated CO2 provides protection from O3 induced photosynthetic damage and chlorophyll loss in flag leaves of spring wheat (Triticum aestivum L., cv. ‘Minaret’), 80 (2000) 159

Italy
Farm sustainability evaluation: methodology and practice, 77 (2000) 43

Japanese mint
Integrated nutrient management and waste recycling for restoring soil fertility and productivity in Japanese mint and mustard sequence in Uttar Pradesh, India, 80 (2000) 267
Kenya
Legumes for improving maize yields and income in semi-arid Kenya, 78 (2000) 123
Productivity, microclimate and water use in Grevillea robusta-based agroforestry systems on hillslopes in semi-arid Kenya, 80 (2000) 121

Land clearing
The impact of land clearing and agricultural practices on soil organic C fractions and CO$_2$ efflux in the Northern Guam aquifer, 79 (2000) 17

Land degradation
Evaluation of the livestock carrying capacity of land resources in the Hills of Nepal based on total digestive nutrient analysis, 78 (2000) 223
Assessing sustainable land management (SLM), 81 (2000) 83
Land quality indicators: research plan, 81 (2000) 93
The development of land quality indicators for soil degradation by water erosion, 81 (2000) 125

Land evaluation
Assessing sustainable land management (SLM), 81 (2000) 83

Land management
Land quality indicators: research plan, 81 (2000) 93

Land productivity

Land quality
Land quality indicators: research plan, 81 (2000) 93
Canadian agri-environmental indicators related to land quality: integrating census and biophysical data to estimate soil cover, wind erosion and soil salinity, 81 (2000) 113

Land quality indicator

Land resources
Evaluation of the livestock carrying capacity of land resources in the Hills of Nepal based on total digestive nutrient analysis, 78 (2000) 223

Land use
Human population growth and the extinction of the tsetse fly, 77 (2000) 227
Land quality indicators: research plan, 81 (2000) 93

Land use systems
Land use effects on soil organic matter properties of chromic luvisols in semi-arid northern Tanzania: carbon, nitrogen, lignin and carbohydrates, 78 (2000) 203

Landscape
The process of landscape evaluation. Introduction to the 2nd special AGEE issue of the concerted action: “The landscape and nature production capacity of organic/sustainable types of agriculture”, 77 (2000) 1
Background concepts for integrated landscape analysis, 77 (2000) 17
The application of parameters designed to measure nature conservation and landscape development on Irish farms, 77 (2000) 65
Species diversity as a task for organic agriculture in Europe, 77 (2000) 101
Bird assemblages of an Iberian cereal steppe, 78 (2000) 65

Landscape assessment
The contribution of organic agriculture to landscape quality in the Sogn og Fjordane region of Western Norway, 77 (2000) 125

Landscape coherence

Landscape development

Landscape ecology
Background concepts for integrated landscape analysis, 77 (2000) 17
Changing minor rural road networks in relation to landscape sustainability and farming practices in West Europe, 77 (2000) 95

Landscape planning
Changing minor rural road networks in relation to landscape sustainability and farming practices in West Europe, 77 (2000) 95

Landscape production
Farm sustainability evaluation: methodology and practice, 77 (2000) 43

Landscape quality
A checklist approach to evaluate the contribution of organic farms to landscape quality, 77 (2000) 143

Landscape quality: Organic agriculture
Landscape quality on organic farms in the Messara valley, Crete. Organic farms as components in the landscape, 77 (2000) 79
Landscape structure
Post-dispersal weed seed predation in Michigan crop fields as a function of agricultural landscape structure, 77 (2000) 193

Landscape values
The contribution of organic agriculture to landscape quality in the Sogn og Fjordane region of Western Norway, 77 (2000) 125

Leaching
Sulphate leaching in an organic crop rotation on sandy soil in Denmark, 78 (2000) 107
Nitrogen mass balances in conventional, integrated and ecological cropping systems and the relationship between balance calculations and nitrogen runoff in an 8-year field experiment in Norway, 79 (2000) 199

Leaf nitrogen
Leaf nitrogen concentration of wheat subjected to elevated [CO$_2$] and either water or N deficits, 79 (2000) 53

Legumes
Legumes for improving maize yields and income in semi-arid Kenya, 78 (2000) 123

Leitbild

Life-form
Grazing induced biodiversity in the highland ecozone of East Africa, 79 (2000) 43

Livestock
Evaluation of the livestock carrying capacity of land resources in the Hills of Nepal based on total digestive nutrient analysis, 78 (2000) 223
Grazing induced biodiversity in the highland ecozone of East Africa, 79 (2000) 43

Local calibration
Adjustment procedures of a crop model to the site specific characteristics of soil and crop using remote sensing data assimilation, 81 (2000) 57

Local extinction
Local extinctions and changes in species richness of lowland farmland birds in England and Wales in relation to recent changes in agricultural land-use, 78 (2000) 1

Long-term modeling

Low-input agriculture
Plant nutrient contents of cattle manures from small-scale farms and experimental stations in the Ethiopian highlands, 78 (2000) 57

Lowland
Local extinctions and changes in species richness of lowland farmland birds in England and Wales in relation to recent changes in agricultural land-use, 78 (2000) 1

Macronutrients
Plant nutrient contents of cattle manures from small-scale farms and experimental stations in the Ethiopian highlands, 78 (2000) 57

Magnaporthe grisea
Effects and possible causes of an unprecedented rice blast epidemic on the traditional farming system of Bhutan, 78 (2000) 237

Maize
Influence of land-use management on CO$_2$ emissions from a silt loam soil in New Zealand, 77 (2000) 257
Legumes for improving maize yields and income in semi-arid Kenya, 78 (2000) 123
Productivity, microclimate and water use in *Grevillea robusta*-based agroforestry systems on hillslopes in semi-arid Kenya, 80 (2000) 121

Manure
Land use effects on soil organic matter properties of chromic luvisols in semi-arid northern Tanzania: carbon, nitrogen, lignin and carbohydrates, 78 (2000) 203
Grazing induced biodiversity in the highland ecozone of East Africa, 79 (2000) 43
Estimation of the impact of fertilisation rate on nitrate leaching in Finland using a mathematical simulation model, 80 (2000) 1

Mediterranean rangeland
Grazing alone is not enough to maintain landscape diversity in the Montseny Biosphere Reserve, 77 (2000) 267

Mediterranean woodlands
An assessment of the spatial variability of basal area in a terrain covered by Mediterranean woodlands, 81 (2000) 17

Methane efflux
Influence of incorporation or dual cropping of *Azolla* on methane emission from a flooded alluvial soil planted to rice in eastern India, 79 (2000) 73
Methane efflux from rice-based cropping systems under humid tropical conditions of eastern India, 79 (2000) 85

Methiocarb
Effects of molluscicide baits on field populations of house mice, 80 (2000) 205

Methods
On crop production and the balance of available resources, 80 (2000) 71
A general tree-environment-crop interaction equation for predictive understanding of agroforestry systems, 80 (2000) 87
**Mexico**
Shade effect on coffee production at the northern Tzeltal zone of the state of Chiapas, Mexico, 80 (2000) 61

**MGR-fingerprinting**
Effects and possible causes of an unprecedented rice blast epidemic on the traditional farming system of Bhutan, 78 (2000) 237

**Microbiology**
A review of microbiology in swine manure odor control, 78 (2000) 93

**Microclimate**
Productivity, microclimate and water use in Grevillea robusta-based agroforestry systems on hillslopes in semi-arid Kenya, 80 (2000) 121

**Micronutrients**
Plant nutrient contents of cattle manures from small-scale farms and experimental stations in the Ethiopian highlands, 78 (2000) 57

**Minor rural road network**
Changing minor rural road networks in relation to landscape sustainability and farming practices in West Europe, 77 (2000) 95

**Mississippi**
Water quality of seasonally flooded agricultural fields in Mississippi, USA, 81 (2000) 171

**Model application**
Modelling, interpolation and stochastic simulation in space and time of global solar radiation, 81 (2000) 29

**Modelling**
Estimation of the impact of fertilisation rate on nitrate leaching in Finland using a mathematical simulation model, 80 (2000) 1
Modelling populations of Erigonae atra and E. dentipalpis (Araneae: Linyphiidae) across an agricultural gradient in Scotland, 80 (2000) 15

**Models**
Pollution of surface waters with pesticides in Germany: modeling non-point source inputs, 80 (2000) 191

**Molluscidecide**
Effects of molluscicide baits on field populations of house mice, 80 (2000) 205

**Monitoring**
Land quality indicators: research plan, 81 (2000) 93

**Montado**
Factors affecting corn bunting Miliaria calandra abundance in a Portuguese agricultural landscape, 77 (2000) 219

**Mulching**

**Multi-criterial analysis**
Farm sustainability evaluation: methodology and practice, 77 (2000) 43

**Mus domesticus**
Effects of molluscidecide baits on field populations of house mice, 80 (2000) 205

**N budget**

**15N immobilisation method**
Estimating legume N2 fixation in grass-clover mixtures of a grazed organic cropping system using two 15N methods, 78 (2000) 139

**15N isotope dilution**
Estimating legume N2 fixation in grass-clover mixtures of a grazed organic cropping system using two 15N methods, 78 (2000) 139

**N transfer**
The specificity of arbuscular mycorrhizal fungi in perennial ryegrass–white clover pasture, 77 (2000) 211

**National scale**
Pollution of surface waters with pesticides in Germany: modeling non-point source inputs, 80 (2000) 191

**Native grasslands**
Botanical composition, soil and forage quality under different management regimes in Russian grasslands, 80 (2000) 213

**Nature**
The application of parameters designed to measure nature conservation and landscape development on Irish farms, 77 (2000) 65

**Nature conservation**
Species diversity as a task for organic agriculture in Europe, 77 (2000) 101

**Nebraska USA**
Standardized precipitation index and nitrogen rate effects on crop yields and risk distribution in maize, 80 (2000) 113

**Nectar plants**
Linear features and butterflies: the importance of green lanes, 80 (2000) 227

**Neem coated urea**
Reducing nitrous oxide emission from an irrigated rice field of North India with nitrification inhibitors, 81 (2000) 163
Nematodes
Yield decline of sweet potato in the humid lowlands of Papua New Guinea, 79 (2000) 259

Nepal
Evaluation of the livestock carrying capacity of land resources in the Hills of Nepal based on total digestive nutrient analysis, 78 (2000) 223

Nesting density
Benefits of rotational grazing and dense nesting cover for island-nesting waterfowl in southern Quebec, 78 (2000) 261

Nesting success
Benefits of rotational grazing and dense nesting cover for island-nesting waterfowl in southern Quebec, 78 (2000) 261

Nest-seeking

Neural network
Assessment of soil erosion vulnerability in western Europe and potential impact on crop productivity due to loss of soil depth using the ImpelERO model, 81 (2000) 179

Neutral sugars
Land use effects on soil organic matter properties of chromic luvisols in semi-arid northern Tanzania: carbon, nitrogen, lignin and carbohydrates, 78 (2000) 203

N-fertilization
The effects of nitrogen and diaspore availability on the regeneration of weed communities following extensification, 77 (2000) 237

Nimino coated urea
Reducing nitrous oxide emission from an irrigated rice field of North India with nitrification inhibitors, 81 (2000) 163

Nitrate
Sulphate leaching in an organic crop rotation on sandy soil in Denmark, 78 (2000) 107
Influence of water table and nitrogen management on residual soil NO₃⁻ and denitrification rate under corn production in sandy loam soil in Quebec, 79 (2000) 187

Nitrogen
Estimation of the impact of fertilisation rate on nitrate leaching in Finland using a mathematical simulation model, 80 (2000) 1
Comparison of grassland management systems for beef cattle using self-contained farmlets: effects of contrasting nitrogen inputs and management strategies on nitrogen budgets, and herbage and animal production, 80 (2000) 243

Nitrogen balances
Nitrogen mass balances in conventional, integrated and ecological cropping systems and the relationship between balance calculations and nitrogen runoff in an 8-year field experiment in Norway, 79 (2000) 199

Nitrogen budgets
Comparison of grassland management systems for beef cattle using self-contained farmlets: effects of contrasting nitrogen inputs and management strategies on nitrogen budgets, and herbage and animal production, 80 (2000) 243

Nitrogen deficit
Leaf nitrogen concentration of wheat subjected to elevated [CO₂] and either water or N deficits, 79 (2000) 53

Nitrogen leaching

Nitrogen runoff
Nitrogen mass balances in conventional, integrated and ecological cropping systems and the relationship between balance calculations and nitrogen runoff in an 8-year field experiment in Norway, 79 (2000) 199

Nitrogen surplus
Increasing the efficiency of plant nutrient recycling within the agricultural system as a way of reducing the load to the environment — experience from Sweden and Finland, 80 (2000) 169

Nitrogen uptake

Nitrous oxide
Reducing nitrous oxide emission from an irrigated rice field of North India with nitrification inhibitors, 81 (2000) 163

Non-point sources
Pollution of surface waters with pesticides in Germany: modeling non-point source inputs, 80 (2000) 191

Northern Ireland
The specificity of arbuscular mycorrhizal fungi in perennial ryegrass–white clover pasture, 77 (2000) 211

Northern Italy
Modelling, interpolation and stochastic simulation in space and time of global solar radiation, 81 (2000) 29

No-till farming
No-tillage
Influence of land-use management on CO₂ emissions from a silt loam soil in New Zealand, 77 (2000) 257

Nutrient balance
Increasing the efficiency of plant nutrient recycling within the agricultural system as a way of reducing the load to the environment — experience from Sweden and Finland, 80 (2000) 169

Nutrient dynamics
Response of Chromolaena odorata to timber tree densities in an agrisilvicultural system in Cameroon: aboveground biomass, residue decomposition and nutrient release, 81 (2000) 191

Nutrient leaching
Increasing the efficiency of plant nutrient recycling within the agricultural system as a way of reducing the load to the environment — experience from Sweden and Finland, 80 (2000) 169

Nutrient recycling efficiency
Increasing the efficiency of plant nutrient recycling within the agricultural system as a way of reducing the load to the environment — experience from Sweden and Finland, 80 (2000) 169

Nutrients
Water quality of seasonally flooded agricultural fields in Mississippi, USA, 81 (2000) 171

NW China

Oats
Influence of land-use management on CO₂ emissions from a silt loam soil in New Zealand, 77 (2000) 257

Odor control
A review of microbiology in swine manure odor control, 78 (2000) 93

On-farm research
Shade effect on coffee production at the northern Tzeltal zone of the state of Chiapas, Mexico, 80 (2000) 61

Orchard management

Orchardgrass
Water quality implications of nitrate leaching from intensively grazed pasture swards in the northeast US, 77 (2000) 203

Organic agriculture
The process of landscape evaluation. Introduction to the 2nd special AGEE issue of the concerted action: “The landscape and nature production capacity of organic/sustainable types of agriculture”, 77 (2000) 1

Organic farming
The application of parameters designed to measure nature conservation and landscape development on Irish farms, 77 (2000) 65
Species diversity as a task for organic agriculture in Europe, 77 (2000) 101
 Sulphate leaching in an organic crop rotation on sandy soil in Denmark, 78 (2000) 107
Increasing the efficiency of plant nutrient recycling within the agricultural system as a way of reducing the load to the environment — experience from Sweden and Finland, 80 (2000) 169

Organic farms
A checklist approach to evaluate the contribution of organic farms to landscape quality, 77 (2000) 143

Organic fertilizer
Plant nutrient contents of cattle manures from small-scale farms and experimental stations in the Ethiopian highlands, 78 (2000) 57

Organic labile P
Use of a fractionation procedure to assess the potential for P movement in a soil profile after 14 years of liquid pig manure fertilization, 78 (2000) 77

Oryza sativa
Effects and possible causes of an unprecedented rice blast epidemic on the traditional farming system of Bhutan, 78 (2000) 237

Overwintering

Ozone
An international cooperative programme indicates the widespread occurrence of ozone injury on crops, 78 (2000) 19
Effects of different ozone exposure regimes on photosynthesis, assimilates and thousand grain weight in spring wheat, 78 (2000) 49
Changes in carbohydrates, leaf pigments and yield in potatoes induced by different ozone exposure regimes, 78 (2000) 149
P content
The effect of dandelion or a cover crop on mycorrhiza inoculum potential, soil aggregation and yield of maize, 78 (2000) 167

Palatability
Can plant palatability trials be used to predict the effect of rabbit grazing on the flora of ex-arable land? 78 (2000) 249

Papua New Guinea
Yield decline of sweet potato in the humid lowlands of Papua New Guinea, 79 (2000) 259

Parameter interpolation
Modelling, interpolation and stochastic simulation in space and time of global solar radiation, 81 (2000) 29

Parameters
The application of parameters designed to measure nature conservation and landscape development on Irish farms, 77 (2000) 65

Paraquat
Review of the factors affecting the decline of the European brown hare, *Lepus europaeus* (Pallas, 1778) and the use of wildlife incident data to evaluate the significance of paraquat, 79 (2000) 95

Particle size separates
Land use effects on soil organic matter properties of chromic luvisols in semi-arid northern Tanzania: carbon, nitrogen, lignin and carbohydrates, 78 (2000) 203

Pastoral systems
Local extinctions and changes in species richness of lowland farmland birds in England and Wales in relation to recent changes in agricultural land-use, 78 (2000) 1

Pastures
The specificity of arbuscular mycorrhizal fungi in perennial rye-grass–white clover pasture, 77 (2000) 211
Floristic composition of established vegetation and the soil seed bank in pasture communities under different traditional management regimes, 78 (2000) 273

Pb
Accumulation of heavy metals in food plants and grasshoppers from the Taigetos Mountains, Greece, 78 (2000) 85

Permanent pasture
Influence of land-use management on CO$_2$ emissions from a silt loam soil in New Zealand, 77 (2000) 257

Pesticides
Adaptation and use of a fuzzy expert system to assess the environmental effect of pesticides applied to field crops, 80 (2000) 143
Pollution of surface waters with pesticides in Germany: modeling non-point source inputs, 80 (2000) 191

Phosphorus
Comparison of conventional and alternative vegetable farming systems on the properties of a yellow earth in New South Wales, 80 (2000) 47

Phosphorus loss
Variation of phosphorus loss from a small Catchment in south Devon, UK, 79 (2000) 143

Photosynthesis
Effects of different ozone exposure regimes on photosynthesis, assimilates and thousand grain weight in spring wheat, 78 (2000) 49

Pig manure
Use of a fractionation procedure to assess the potential for P movement in a soil profile after 14 years of liquid pig manure fertilization, 78 (2000) 77

Pigeonpea
Legumes for improving maize yields and income in semi-arid Kenya, 78 (2000) 123

Pigments
Changes in carbohydrates, leaf pigments and yield in potatoes induced by different ozone exposure regimes, 78 (2000) 149

Planning
Background concepts for integrated landscape analysis, 77 (2000) 17

Plant re-establishment
The effects of nitrogen and diaspore availability on the regeneration of weed communities following extensification, 77 (2000) 237

Plow tillage
Influence of land-use management on CO$_2$ emissions from a silt loam soil in New Zealand, 77 (2000) 257

Policies
Deforestation of woodlands in communal areas of Zimbabwe: is it due to agricultural policies? 79 (2000) 175

Population
Review of the factors affecting the decline of the European brown hare, *Lepus europaeus* (Pallas, 1778) and the use of wildlife incident data to evaluate the significance of paraquat, 79 (2000) 95

Population dynamics
The effects of nitrogen and diaspore availability on the regeneration of weed communities following extensification, 77 (2000) 237

Portugal
Factors affecting corn bunting *Miliaria calandra* abundance in a Portuguese agricultural landscape, 77 (2000) 219
Possibility theory
A spatial approach using imprecise soil data for modelling crop yields over vast areas, 81 (2000) 5

Post-dispersal seed predation
Post-dispersal weed seed predation in Michigan crop fields as a function of agricultural landscape structure, 77 (2000) 193

Potato
Changes in carbohydrates, leaf pigments and yield in potatoes induced by different ozone exposure regimes, 78 (2000) 149

Practical indicators
Practical and cost-effective indicators and procedures for monitoring the impacts of rural development projects on land quality and sustainable land management, 81 (2000) 147

Prediction uncertainty
Sensitivity and uncertainty analysis in spatial modelling based on GIS, 81 (2000) 71

Predictor
Nitrogen mass balances in conventional, integrated and ecological cropping systems and the relationship between balance calculations and nitrogen runoff in an 8-year field experiment in Norway, 79 (2000) 199

Principal components analysis
Local extinctions and changes in species richness of lowland farmland birds in England and Wales in relation to recent changes in agricultural land-use, 78 (2000) 1

Production agriculture

Production ecology
On crop production and the balance of available resources, 80 (2000) 71

Production functions
Patterns of input–output relations in agro-ecosystems, 79 (2000) 233

Productivity
Productivity, microclimate and water use in *Grevillea robusta*-based agroforestry systems on hillslopes in semi-arid Kenya, 80 (2000) 121
Effects of repeated sewage sludge application on plant community diversity and structure under agricultural field conditions on Podzolic soils in eastern Quebec, 81 (2000) 209

*Pteridium aquilinum*

*Pyricularia grisea*
Effects and possible causes of an unprecedented rice blast epidemic on the traditional farming system of Bhutan, 78 (2000) 237

Quantifying soil loss
Assessment of soil erosion vulnerability in western Europe and potential impact on crop productivity due to loss of soil depth using the ImpelERO model, 81 (2000) 179

Quebec
Benefits of rotational grazing and dense nesting cover for island-nesting waterfowl in southern Quebec, 78 (2000) 261

*Quercus ilex*
Grazing alone is not enough to maintain landscape diversity in the Montseny Biosphere Reserve, 77 (2000) 267

Rabbits
Can plant palatability trials be used to predict the effect of rabbit grazing on the flora of ex-arable land? 78 (2000) 249

Rainfed cropping systems
Standardized precipitation index and nitrogen rate effects on crop yields and risk distribution in maize, 80 (2000) 113

Red clover
Phytotoxic effects of red clover amended soils on wild mustard seedling growth, 78 (2000) 187

Reflectance
Adjustment procedures of a crop model to the site specific characteristics of soil and crop using remote sensing data assimilation, 81 (2000) 57

Reforestation
Land use effects on soil quality in a tropical forest ecosystem of Bangladesh, 79 (2000) 9

Regional development
The process of landscape evaluation. Introduction to the 2nd special AGEE issue of the concerted action: “The landscape and nature production capacity of organic/sustainable types of agriculture”, 77 (2000) 1

Regional geography
Background concepts for integrated landscape analysis, 77 (2000) 17

Regional modelling
The development of land quality indicators for soil degradation by water erosion, 81 (2000) 125

Regional planning
The contribution of organic agriculture to landscape quality in the Sogn og Fjordane region of Western Norway, 77 (2000) 125
Regional scale
A spatial approach using imprecise soil data for modelling crop yields over vast areas, 81 (2000) 5

Regional-scale modelling
Modelling, interpolation and stochastic simulation in space and time of global solar radiation, 81 (2000) 29

Residue recycling
Integrated nutrient management and waste recycling for restoring soil fertility and productivity in Japanese mint and mustard sequence in Uttar Pradesh, India, 80 (2000) 267

Resource limitation
On crop production and the balance of available resources, 80 (2000) 71

Resource management domains

Rice
Reducing nitrous oxide emission from an irrigated rice field of North India with nitrification inhibitors, 81 (2000) 163

Rice plants
Influence of incorporation or dual cropping of Azolla on methane emission from a flooded alluvial soil planted to rice in eastern India, 79 (2000) 73

Risk analysis
Standardized precipitation index and nitrogen rate effects on crop yields and risk distribution in maize, 80 (2000) 113

Rodenticide
Effects of molluscicide baits on field populations of house mice, 80 (2000) 205

Root crops

Rotation system

Rotational grazing
Benefits of rotational grazing and dense nesting cover for island-nesting waterfowl in southern Quebec, 78 (2000) 261

Rumex acetosa
Drift control and buffer zones for helicopter spraying of bracken (Pteridium aquilinum), 79 (2000) 215

Rural landscapes

Russia
Botanical composition, soil and forage quality under different management regimes in Russian grasslands, 80 (2000) 213

Ryegrass
Water quality implications of nitrate leaching from intensively grazed pasture swards in the northeast US, 77 (2000) 203

Ryegrass-clover mixtures
Estimating legume N2 fixation in grass-clover mixtures of a grazed organic cropping system using two 15N methods, 78 (2000) 139

Scotland
Modelling populations of Erigone atra and E. dentipalpis (Araneae: Linyphiidae) across an agricultural gradient in Scotland, 80 (2000) 15

Seasonal flooding
Water quality of seasonally flooded agricultural fields in Mississippi, USA, 81 (2000) 171

Sedimentation
Water quality of seasonally flooded agricultural fields in Mississippi, USA, 81 (2000) 171

Seed bank
Floristic composition of established vegetation and the soil seed bank in pasture communities under different traditional management regimes, 78 (2000) 273
Grazing induced biodiversity in the highland ecozone of East Africa, 79 (2000) 43

Seed dispersal
The effects of nitrogen and diaspore availability on the regeneration of weed communities following extensification, 77 (2000) 237

Semi-arid tropics
Legumes for improving maize yields and income in semi-arid Kenya, 78 (2000) 123

Semi-natural habitats

Set-aside
Can plant palatability trials be used to predict the effect of rabbit grazing on the flora of ex-arable land? 78 (2000) 249
Development of vegetation on set-aside land for up to nine years from a national perspective, 79 (2000) 159
Sewage sludge
Effects of repeated sewage sludge application on plant community diversity and structure under agricultural field conditions on Podzolic soils in eastern Quebec, 81 (2000) 209

Shade
Shade effect on coffee production at the northern Tzeltal zone of the state of Chiapas, Mexico, 80 (2000) 61

Simulated annealing
Modelling, interpolation and stochastic simulation in space and time of global solar radiation, 81 (2000) 29

Slash-and-burn agriculture
Weedy fields and forests: interactions between land use and the composition of plant communities in the Peruvian Amazon, 78 (2000) 175
Econometric analysis of the determinants of adoption of alley farming by farmers in the forest zone of southwest Cameroon, 80 (2000) 255

Slope
An assessment of the spatial variability of basal area in a terrain covered by Mediterranean woodlands, 81 (2000) 17

Slurry
Comparison of grassland management systems for beef cattle using self-contained farmlets: effects of contrasting nitrogen inputs and management strategies on nitrogen budgets, and herbage and animal production, 80 (2000) 243

Small ruminants
Grazing alone is not enough to maintain landscape diversity in the Montseny Biosphere Reserve, 77 (2000) 267

Soil
Dissipation of herbicides in soil and grapes in a South Australian vineyard, 78 (2000) 283

Soil CO₂ efflux
The impact of land clearing and agricultural practices on soil organic C fractions and CO₂ efflux in the Northern Guam aquifer, 79 (2000) 17

Soil conservation requirement

Soil cover
Canadian agri-environmental indicators related to land quality: integrating census and biophysical data to estimate soil cover, wind erosion and soil salinity, 81 (2000) 113

Soil erosion
Farmer participatory research to minimize soil erosion on steepland vegetable systems in the Philippines, 79 (2000) 113

The development of land quality indicators for soil degradation by water erosion, 81 (2000) 125

Soil fertility
Legumes for improving maize yields and income in semi-arid Kenya, 78 (2000) 123

Soil fertility decline
Yield decline of sweet potato in the humid lowlands of Papua New Guinea, 79 (2000) 259

Soil fertility management
Diagnostic indicators of soil quality in productive and non-productive smallholders’ fields of Kenya’s Central Highlands, 79 (2000) 1

Soil health
Comparison of conventional and alternative vegetable farming systems on the properties of a yellow earth in New South Wales, 80 (2000) 47

Soil map
A spatial approach using imprecise soil data for modelling crop yields over vast areas, 81 (2000) 5

Soil moisture
Influence of land-use management on CO₂ emissions from a silt loam soil in New Zealand, 77 (2000) 257

Soil nutrient balance

Soil organic C fractions
The impact of land clearing and agricultural practices on soil organic C fractions and CO₂ efflux in the Northern Guam aquifer, 79 (2000) 17

Soil organic carbon
Diagnostic indicators of soil quality in productive and non-productive smallholders’ fields of Kenya’s Central Highlands, 79 (2000) 1

Soil organic matter
Land use effects on soil organic matter properties of chromic luvisols in semi-arid northern Tanzania: carbon, nitrogen, lignin and carbohydrates, 78 (2000) 203
Land use effects on soil quality in a tropical forest ecosystem of Bangladesh, 79 (2000) 9
Soil P
Variation of phosphorus loss from a small Catchment in south Devon, UK, 79 (2000) 143

Soil quality
Land use effects on soil quality in a tropical forest ecosystem of Bangladesh, 79 (2000) 9
Botanical composition, soil and forage quality under different management regimes in Russian grasslands, 80 (2000) 213

Soil quality index

Soil salinity
Canadian agri-environmental indicators related to land quality: integrating census and biophysical data to estimate soil cover, wind erosion and soil salinity, 81 (2000) 113

Soil structure

Soil surface strength
DITCH: a model to simulate field conditions in response to ditch levels managed for environmental aims, 77 (2000) 179

Soil variability
Uncertainties in the appraisal of water availability and consequences for simulated sugarcane yield potentials in São Paulo State, Brazil, 81 (2000) 43

Soil-P fractionation
Use of a fractionation procedure to assess the potential for P movement in a soil profile after 14 years of liquid pig manure fertilization, 78 (2000) 77

Solar radiation
An assessment of the spatial variability of basal area in a terrain covered by Mediterranean woodlands, 81 (2000) 17
Modelling, interpolation and stochastic simulation in space and time of global solar radiation, 81 (2000) 29

Sorgaab
Use of sorghum allelopathic properties to control weeds in irrigated wheat in a semi arid region of Punjab, 79 (2000) 105

Sorghum allelopathy
Use of sorghum allelopathic properties to control weeds in irrigated wheat in a semi arid region of Punjab, 79 (2000) 105

South Australia
Effects of molluscicide baits on field populations of house mice, 80 (2000) 205

Southeast Asia
Indicators for sustainable land management based on farmer surveys in Vietnam, Indonesia, and Thailand, 81 (2000) 137

Southern Michigan
Post-dispersal weed seed predation in Michigan crop fields as a function of agricultural landscape structure, 77 (2000) 193

Space-time statistics
Modelling, interpolation and stochastic simulation in space and time of global solar radiation, 81 (2000) 29

Spain
Floristic composition of established vegetation and the soil seed bank in pasture communities under different traditional management regimes, 78 (2000) 273

Spatial autocorrelation
An assessment of the spatial variability of basal area in a terrain covered by Mediterranean woodlands, 81 (2000) 17

Spatial dynamics
Spatial dynamics of wood mouse (Apodemus sylvaticus) in an agricultural landscape under intensive use in the Mont Saint Michel Bay (France), 78 (2000) 159

Spatial-temporal simulations
Modelling, interpolation and stochastic simulation in space and time of global solar radiation, 81 (2000) 29

Species
Grazing induced biodiversity in the highland ecozone of East Africa, 79 (2000) 43

Species diversity
Species diversity as a task for organic agriculture in Europe, 77 (2000) 101

Species richness
Local extinctions and changes in species richness of lowland farmland birds in England and Wales in relation to recent changes in agricultural land-use, 78 (2000) 1

SRP
Variation of phosphorus loss from a small Catchment in south Devon, UK, 79 (2000) 143

Steepland
Farmer participatory research to minimize soil erosion on steepland vegetable systems in the Philippines, 79 (2000) 113

Stochastic simulation
Adjustment procedures of a crop model to the site specific characteristics of soil and crop using remote sensing data assimilation, 81 (2000) 57
Strychnine
Effects of molluscicide baits on field populations of house mice, 80 (2000) 205

Subirrigation
Influence of water table and nitrogen management on residual soil NO$_3^-$ and denitrification rate under corn production in sandy loam soil in Quebec, 79 (2000) 187

Succession
Plant succession in perennial grass strips and effects on the diversity of leafhoppers (Homoptera, Auchenorrhyncha), 80 (2000) 101

Sulphate
Sulphate leaching in an organic crop rotation on sandy soil in Denmark, 78 (2000) 107

Sulphur balances
Sulphate leaching in an organic crop rotation on sandy soil in Denmark, 78 (2000) 107

Surface water
Pollution of surface waters with pesticides in Germany: modeling non-point source inputs, 80 (2000) 191

Sustainability
The process of landscape evaluation. Introduction to the 2nd special AGEE issue of the concerted action: “The landscape and nature production capacity of organic/sustainable types of agriculture”, 77 (2000) 1
Landscape quality on organic farms in the Messara valley, Crete. Organic farms as components in the landscape, 77 (2000) 79
An input/output methodology to evaluate farms as sustainable agroecosystems: an application of indicators to farms in central Italy, 77 (2000) 111
Nitrogen mass balances in conventional, integrated and ecological cropping systems and the relationship between balance calculations and nitrogen runoff in an 8-year field experiment in Norway, 79 (2000) 199
Comparison of conventional and alternative vegetable farming systems on the properties of a yellow earth in New South Wales, 80 (2000) 47

Sustainability assessment
Indicators for sustainable land management based on farmer surveys in Vietnam, Indonesia, and Thailand, 81 (2000) 137

Sustainability indicators
Indicators for sustainable land management based on farmer surveys in Vietnam, Indonesia, and Thailand, 81 (2000) 137

Sustainable agriculture
Farm sustainability evaluation: methodology and practice, 77 (2000) 43
A generalized environmental sustainability index for agricultural systems, 79 (2000) 29

Sustainable development appraisal (SDA)
Assessing sustainable land management (SLM), 81 (2000) 83

Sustainable land management
Assessing sustainable land management (SLM), 81 (2000) 83
Practical and cost-effective indicators and procedures for monitoring the impacts of rural development projects on land quality and sustainable land management, 81 (2000) 147

Sweden

Sweet potato
Yield decline of sweet potato in the humid lowlands of Papua New Guinea, 79 (2000) 259

Swine manure
A review of microbiology in swine manure odor control, 78 (2000) 93

Switchgrass
Potential production and environmental effects of switchgrass and traditional crops under current and greenhouse-altered climate in the central United States: a simulation study, 78 (2000) 31

Switzerland

Symbiotic N fixation
Nitrogen mass balances in conventional, integrated and ecological cropping systems and the relationship between balance calculations and nitrogen runoff in an 8-year field experiment in Norway, 79 (2000) 199

Systems
Comparison of grassland management systems for beef cattle using self-contained farmlets: effects of contrasting nitrogen inputs and management strategies on nitrogen budgets, and herbage and animal production, 80 (2000) 243

Systems approach

TDN demand and supply
Evaluation of the livestock carrying capacity of land resources in the Hills of Nepal based on total digestive nutrient analysis, 78 (2000) 223
<table>
<thead>
<tr>
<th>Subject</th>
<th>Description</th>
<th>Volume and Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tillage</td>
<td>The impact of land clearing and agricultural practices on soil organic C fractions and CO₂ efflux in the Northern Guam aquifer</td>
<td>79 (2000) 17</td>
</tr>
<tr>
<td>Total nitrogen</td>
<td>Nitrogen mass balances in conventional, integrated and ecological cropping systems and the relationship between balance calculations and nitrogen runoff in an 8-year field experiment in Norway</td>
<td>79 (2000) 199</td>
</tr>
<tr>
<td>Traditional farming system</td>
<td>Effects and possible causes of an unprecedented rice blast epidemic on the traditional farming system of Bhutan</td>
<td>78 (2000) 237</td>
</tr>
<tr>
<td>Traditional management</td>
<td>Floristic composition of established vegetation and the soil seed bank in pasture communities under different traditional management regimes</td>
<td>78 (2000) 273</td>
</tr>
<tr>
<td>Tree density</td>
<td>Response of Chromolaena odorata to timber tree densities in an agrosilvicultural system in Cameroon: aboveground biomass, residue decomposition and nutrient release</td>
<td>81 (2000) 191</td>
</tr>
<tr>
<td>Trees</td>
<td>A general tree-environment-crop interaction equation for predictive understanding of agroforestry systems</td>
<td>80 (2000) 87</td>
</tr>
<tr>
<td>Triticum aestivum (spring wheat)</td>
<td>Effects of different ozone exposure regimes on photosynthesis, assimilates and thousand grain weight in spring wheat</td>
<td>78 (2000) 49</td>
</tr>
<tr>
<td></td>
<td>Elevated CO₂ provides protection from O₃ induced photosynthetic damage and chlorophyll loss in flag leaves of spring wheat (Triticum aestivum L., cv. ‘Minaret’),</td>
<td>80 (2000) 159</td>
</tr>
<tr>
<td>Trypanosomosis</td>
<td>Human population growth and the extinction of the tsetse fly</td>
<td>77 (2000) 227</td>
</tr>
<tr>
<td>TSAVI</td>
<td>Adjustment procedures of a crop model to the site specific characteristics of soil and crop using remote sensing data assimilation</td>
<td>81 (2000) 57</td>
</tr>
<tr>
<td>Tuscany</td>
<td>Farm sustainability evaluation: methodology and practice</td>
<td>77 (2000) 43</td>
</tr>
<tr>
<td></td>
<td>Nature and landscape production potentials of organic types of agriculture: a check of evaluation criteria and parameters in two Tuscan farm-landscapes</td>
<td>77 (2000) 53</td>
</tr>
<tr>
<td>UK</td>
<td>Development of vegetation on set-aside land for up to nine years from a national perspective</td>
<td>79 (2000) 159</td>
</tr>
<tr>
<td>Drift control and buffer zones for helicopter spraying of bracken (Pteridium aquilinum),</td>
<td>79 (2000) 215</td>
<td></td>
</tr>
<tr>
<td>Linear features and butterflies: the importance of green lanes,</td>
<td>80 (2000) 227</td>
<td></td>
</tr>
<tr>
<td>Comparison of grassland management systems for beef cattle using self-contained farmlets: effects of contrasting nitrogen inputs and management strategies on nitrogen budgets, and herbage and animal production,</td>
<td>80 (2000) 243</td>
<td></td>
</tr>
<tr>
<td>Upland crops</td>
<td>Methane efflux from rice-based cropping systems under humid tropical conditions of eastern India</td>
<td>79 (2000) 85</td>
</tr>
<tr>
<td>Urbanisation</td>
<td>Background concepts for integrated landscape analysis</td>
<td>77 (2000) 17</td>
</tr>
<tr>
<td>Uronic acids</td>
<td>Land use effects on soil organic matter properties of chromic luvisols in semi-arid northern Tanzania: carbon, nitrogen, lignin and carbohydrates</td>
<td>78 (2000) 203</td>
</tr>
<tr>
<td>USA</td>
<td>The effect of dandelion or a cover crop on mycorrhiza inoculum potential, soil aggregation and yield of maize</td>
<td>78 (2000) 167</td>
</tr>
<tr>
<td></td>
<td>Phytotoxic effects of red clover amended soils on wild mustard seedling growth</td>
<td>78 (2000) 187</td>
</tr>
<tr>
<td>VA mycorrhiza</td>
<td>The effect of dandelion or a cover crop on mycorrhiza inoculum potential, soil aggregation and yield of maize</td>
<td>78 (2000) 167</td>
</tr>
<tr>
<td>Valuation methodology and terminology</td>
<td>A methodology and terminology of sustainability assessment and its perspectives for rural planning</td>
<td>77 (2000) 29</td>
</tr>
<tr>
<td>Vegetable farming</td>
<td>Comparison of conventional and alternative vegetable farming systems on the properties of a yellow earth in New South Wales</td>
<td>80 (2000) 47</td>
</tr>
<tr>
<td>Vegetation</td>
<td>Species diversity as a task for organic agriculture in Europe</td>
<td>77 (2000) 101</td>
</tr>
<tr>
<td>Vegetation succession</td>
<td>Development of vegetation on set-aside land for up to nine years from a national perspective</td>
<td>79 (2000) 159</td>
</tr>
<tr>
<td>Vegetation survey</td>
<td>Development of vegetation on set-aside land for up to nine years from a national perspective</td>
<td>79 (2000) 159</td>
</tr>
<tr>
<td>Vineyard</td>
<td>Dissipation of herbicides in soil and grapes in a South Australian vineyard</td>
<td>78 (2000) 283</td>
</tr>
</tbody>
</table>
Virtual value
Patterns of input–output relations in agro-ecosystems, 79 (2000) 233

Water availability
Uncertainties in the appraisal of water availability and consequences for simulated sugarcane yield potentials in São Paulo State, Brazil, 81 (2000) 43

Water deficit
Leaf nitrogen concentration of wheat subjected to elevated [CO₂] and either water or N deficits, 79 (2000) 53

Water erosion
Assessment of soil erosion vulnerability in western Europe and potential impact on crop productivity due to loss of soil depth using the ImpelERO model, 81 (2000) 179

Water quality
Water quality implications of nitrate leaching from intensively grazed pasture swards in the northeast US, 77 (2000) 203
Influence of water table and nitrogen management on residual soil NO₃⁻ and denitrification rate under corn production in sandy loam soil in Quebec, 79 (2000) 187
Water quality of seasonally flooded agricultural fields in Mississippi, USA, 81 (2000) 171

Water stable aggregation
Comparison of conventional and alternative vegetable farming systems on the properties of a yellow earth in New South Wales, 80 (2000) 47

Water tables
DITCH: a model to simulate field conditions in response to ditch levels managed for environmental aims, 77 (2000) 179

Water use patterns

Weed biocontrol
Post-dispersal weed seed predation in Michigan crop fields as a function of agricultural landscape structure, 77 (2000) 193

Weed control
Use of sorghum allelopathic properties to control weeds in irrigated wheat in a semi-arid region of Punjab, 79 (2000) 105

Weed management
Phytotoxic effects of red clover amended soils on wild mustard seedling growth, 78 (2000) 187

Weeds
Species diversity as a task for organic agriculture in Europe, 77 (2000) 101

Weedy fields and forests: interactions between land use and the composition of plant communities in the Peruvian Amazon, 78 (2000) 175
Response of Chromolaena odorata to timber tree densities in an agrisilvicultural system in Cameroon: aboveground biomass, residue decomposition and nutrient release, 81 (2000) 191
Effects of repeated sewage sludge application on plant community diversity and structure under agricultural field conditions on Podzolic soils in eastern Quebec, 81 (2000) 209

Weevils
Yield decline of sweet potato in the humid lowlands of Papua New Guinea, 79 (2000) 259

West Europe
Changing minor rural road networks in relation to landscape sustainability and farming practices in West Europe, 77 (2000) 95

Western Europe
Assessment of soil erosion vulnerability in western Europe and potential impact on crop productivity due to loss of soil depth using the ImpelERO model, 81 (2000) 179

Western Norway
The contribution of organic agriculture to landscape quality in the Sogn og Fjordane region of Western Norway, 77 (2000) 125

Wet season
Methane efflux from rice-based cropping systems under humid tropical conditions of eastern India, 79 (2000) 85

Wetlands
DITCH: a model to simulate field conditions in response to ditch levels managed for environmental aims, 77 (2000) 179

Wheat
Use of sorghum allelopathic properties to control weeds in irrigated wheat in a semi-arid region of Punjab, 79 (2000) 105

Wheat monoculture

White clover
Water quality implications of nitrate leaching from intensively grazed pasture swards in the northeast US, 77 (2000) 203

Wild mustard
Phytotoxic effects of red clover amended soils on wild mustard seedling growth, 78 (2000) 187
Wildlife
Review of the factors affecting the decline of the European brown hare, *Lepus europaeus* (Pallas, 1778) and the use of wildlife incident data to evaluate the significance of paraquat, 79 (2000) 95

Wind erosion
Canadian agri-environmental indicators related to land quality: integrating census and biophysical data to estimate soil cover, wind erosion and soil salinity, 81 (2000) 113

Winter abundance
Factors affecting corn bunting *Miliaria calandra* abundance in a Portuguese agricultural landscape, 77 (2000) 219

Winter wheat (*Triticum aestivum* L.)
The effect of dandelion or a cover crop on mycorrhiza inoculum potential, soil aggregation and yield of maize, 78 (2000) 167

Woodlands
Deforestation of woodlands in communal areas of Zimbabwe: is it due to agricultural policies? 79 (2000) 175
Linear features and butterflies: the importance of green lanes, 80 (2000) 227

Woody borders
Effect of woody borders on insect density and diversity in crop fields: a landscape-scale analysis, 78 (2000) 115

Yield
Effects of different ozone exposure regimes on photosynthesis, assimilates and thousand grain weight in spring wheat, 78 (2000) 49
Changes in carbohydrates, leaf pigments and yield in potatoes induced by different ozone exposure regimes, 78 (2000) 149

Yield decline
Yield decline of sweet potato in the humid lowlands of Papua New Guinea, 79 (2000) 259

Yield gap

Yield losses
Effects and possible causes of an unprecedented rice blast epidemic on the traditional farming system of Bhutan, 78 (2000) 237

Yield variation
Yield decline of sweet potato in the humid lowlands of Papua New Guinea, 79 (2000) 259

Zimbabwe
Deforestation of woodlands in communal areas of Zimbabwe: is it due to agricultural policies? 79 (2000) 175