



**EMBRAPA**

EMPRESA BRASILEIRA DE PESQUISA AGROPECUÁRIA

VINCULADA AO MINISTÉRIO DA AGRICULTURA

# **BIBLIOGRAFIA SOBRE ECOSSISTEMAS**

TEMOS UM BANCO PARA VOCÊ  
É O BANCO DE BIBLIOGRAFIAS  
USE O

REMETA O PEDIDO DA BIBLIOGRAFIA  
QUE VOCÊ NECESSITA,  
ASSIM:

EMBRAPA - DEPARTAMENTO DE INFORMAÇÃO E DOCUMENTAÇÃO (DID)  
Edifício Venâncio 2000 - 2º subsolo  
Caixa Postal 11.1316  
70333 - Brasília, DF.

## BIBLIOGRAFIA SOBRE ECOSISTEMAS

Empresa Brasileira de Pesquisa Agropecuária. Centro de Pesquisa Agropecuária do Trópico Úmido. Belém, PA.

Bibliografia sobre ecossistemas, por Mário Dantas e Nazira Leite Nassar. Brasília, EMBRAPA-DID, 1982.

214 p.

I. Ecossistemas - Bibliografia. I. Dantas, Mário.  
II. Nassar, Nazira Leite. III. Título.

CDD: 576.15



EMPRESA BRASILEIRA DE PESQUISA AGROPECUÁRIA -  
EMBRAPA  
CENTRO DE PESQUISA AGROPECUÁRIA DO TRÓPICO -  
CPATU

### **BIBLIOGRAFIA SOBRE ECOSISTEMAS**

**Mario Dantas**

Biólogo M.S. em Ecologia

Pesquisador

**Nazira Leite Nassar**

Bibliotecária

Departamento de Informação e Documentação

Brasília

1982

Pedidos desta bibliografia bem como cópia dos documentos nela indexados, deverão ser feitos ao Centro de Pesquisa Agropecuária do Trópico Úmido

Travessa Dr. Enéas Pinheiro, s/n

Caixa Postal - 48

66.000 - Belém - PA

ou

Pedidos de exemplares desta bibliografia, também poderão ser feitos ao

Departamento de Informação e Documentação da EMBRAPA

Edifício Venâncio 2000 - 2º Subsolo

Caixa Postal - 11.1316

70.333 - Brasília - DF

## SUMÁRIO

APRESENTAÇÃO .....	9
INTRODUÇÃO .....	11
ANÁLISE .....	13
DEGRADAÇÃO E CONSERVAÇÃO .....	106
MANEJO .....	116
ÍNDICE DE AUTORES .....	149
ÍNDICE DE ASSUNTO .....	193
ÍNDICE GEOGRÁFICO .....	211

## A P R E S E N T A Ç Ã O

O Centro de Pesquisa Agropecuária do Trópico Úmido-CPATU publica a bibliografia sinalética sobre ecossistemas, assunto que compreende as interrelações entre seres vivos e meio ambiente.

É, portanto, documento referencial que trata de matéria notadamente relevante para a Região Amazônica, pela extrema necessidade de crescente entendimento das aludidas interrelações.

Ressaltamos que esta bibliografia contém 630 referências, representando, assim, trabalho de pesquisa marcadamente laborioso, e três áreas de conhecimento.

Essas áreas de conhecimento são análise, de gradação e conservação, e manejo de ecossistemas, constituindo-se, na realidade, três grandes segmentos grupais, envolvendo uma amplitude notável de assuntos.

Com efeito, este trabalho vem contribuir para suprir e atualizar o estudioso com orientação bibliográfica sobre importante matéria.



Finalmente, queremos externar os nossos  
agradecimentos ao Pesquisador Mário Dantas e à Bibliote  
tecária Nazira Leite Nassar, do CPATU, pela elaboração  
deste valioso documento de consulta

Cristo Nazarê Barbosa do Nascimento

Chefe do CPATU

## I N T R O D U Ç Ã O

Ecossistema é a unidade básica de estudo em ecologia, compreende os elementos vivos de um determinado ambiente, como também os elementos abióticos, físicos e químicos.

O estudo de um ecossistema pode ser feito segundo uma abordagem holística, quando se busca o entendimento do conjunto, considerando todas as interações dos seres vivos entre si e entre o meio físico, ou pode ser feito por etapas, considerando-se cada elemento separadamente. Baseando-se nesta segunda idéia, foram efetuados levantamentos bibliográficos, visando oferecer um trabalho de base para os pesquisadores envolvidos em ecologia. Assim as referências foram organizadas em três grandes grupos:

Análise - englobando estrutura e componentes do ecossistema, referindo-se aos produtores, consumidores, decompositores, biomassa, nutrientes, energia, clima, solo, componentes químicos orgânicos e inorgânicos;

Degradação e conservação - referindo-se especificamente a poluição terrestre, aquática e atmosférica, consequências da ocupação humana de áreas florestadas, conservação e proteção ambiental e;

Manejo - reunindo a bibliografia que trata das diferentes formas de manejo de ecossistemas.

A esta listagem poderão ser acrescentadas muitas outras referências, pois se reconhece que o as assunto é vasto e de modo algum, se teve a pretensão de apresentar todas as referências existentes.

Espera-se que este trabalho seja útil aos colegas pesquisadores, interessados neste assunto e que, futuramente se possa ampliá-lo através da inclusão de novas referências.

Mário Dantas

## A N Á L I S E

001. ABROSOV, N.S. Dynamics of bacterial components of alga-bacterial coenosis (mathematical model). Biophysics, New York, 17(5):910-8, 1972.
002. ADAMS, D.L. & BARRET, G.W. Species Importance within a virgin and a timbered beech-maple forest ecosystem. Ohio J. Sci., 77(2):84-7, Mar.-1977.
003. ADAMS, D.L. & BARRET, G.W. Stress effects on bird - species diversity within nature forest ecosystems. Amer. Midl. Nat., Notre Dame, 96(1):179-94, July, 1976.
004. ADAMS JUNIOR, T.E. Our California brushland resource. In: PEOPLE AND BRUSHLAND MANAGEMENT CONFERENCE AND WORKSHOP, 1975. Proceedings, California University Berkeley Cooperative Extension, 1975. p.1-8.
005. ADIS, J. Programa mínimo para análise de ecossis temas: Artrópodos terrestres em florestas inundáveis da Amazônia Central. Acta amaz., Manaus, 7(2):223-9, Jun. 1977.

006. AGBOOLA, A.A. & OKO, B. An attempt to evaluate plant available P in western Nigerian soils under shifting cultivation. Agron. J., Washington, 68(5):798-801, 1976.
007. ALCOCK, M.B. An improved electronic instrument for estimation of pasture yield. Nature, London, 203:1309-10, 1964.
008. ALLEN, R. The year of the rain forest. New Scientist, London, 66(946):178-80, 1975.
009. ALLEN, T.F.H. Multivariate approaches to algal stratagems & tactics in system analysis of phytoplankton. Ecology, Durham, 54(6):1234-46, 1973.
010. AMUNDSEN, C.C. & CLEBSCH, E.E.C. Dynamics of terrestrial ecosystem vegetation of Amchitka Island, Alaska. Bioscience, Washington, 21(12):619-23, June, 1971.

011. ANDERSON, A.B.; PRANCE, G.T. & ALBUQUERQUE, B.W.  
P. de. Estudos sobre a vegetação das campinas  
Amazonicas. III. A vegetação lenhosa da Campi  
na da Reserva Biológica INPA-SUFRAMA (Manaus-  
Carácarai, km 62). Acta amaz., Manaus, 5(3):  
225-46, dez. 1975.
012. ANDERSON, M.C. & MILLER, E.E. Forest cover as a  
solar camera: penumbral effects in plant cano  
pies. J. Appl. Ecol., Oxford, 11(2):691-7,  
1974.
013. ANDERSON, N.L. Vegetation of rangeland sites as  
sociated with some grasshopper studies in Monta  
na. B. Mont. Agric. Exp. Stn. Mont. State Univ.  
Bozeman, 668:1-47, Oct. 1973.
014. ANDREWS, R.; COLEMAN, D.C.; ELLIS, J.E. & SINGH,  
J.S. Energy flow relationships in a short  
grass prairie ecosystem. Proc. Int. Congr.  
Ecol., 1:22-7, 1974.

015. ARMENTANO, T.V. & WOODWELL, G.M. The effect of twelve years of chronic gamma radiation upon litterfall and soil humus of an oakpine forest. Radiat. Res., 59(1):71, 1974.
016. ART, H.W. Barrier island forest ecosystem: role of meteorologic nutrient inputs. Science, New York, 184(4132):60-2, Apr. 1974.
017. ASCHMANN, H. Distribution and peculiarity of Mediterranean ecosystems. In: DI CASTRI, F. & MOONEY, H.A. eds. Mediterranean type ecosystems. New York, Springer-Verlag, 1973. p. 11-9.
018. AUCLAIR, A.N.D.; BOUCHAR, A. & PAJACZKOWSKI, J. Productivity relations in a Carex-dominated ecosystem. Oecologia, Berlin, 26(1):9-31, 1976.
019. AUERBACH, S.I. Analysis of structure and function of Deciduous Forest Biome Ecosystems; A research proposal to the National Science Foundation. Oak Ridge, National Laboratory, 1970.

020. AUSTIN, M.P. Relationships among functional properties of California grassland. Nature, London, 217(5134):1163, Mar. 1968.
021. AUSMUS, B.S.; EDWARDS, N.T. & WITKAMP, M. Microbial immobilization of carbon, nitrogen, phosphorus and potassium; implications for forest ecosystem processes. Symp. Br. Ecol. Soc., London, 17:397-416, 1976.
022. AXEIROD, D.I. History of Mediterranean ecosystem in California. In: MEDITERRANEAN Type ecosystems. s.l., s.ed., 1973. p.225-77.
023. AYYAD, M.A. Vegetation & environment of western Mediterranean coastal land of Egypt. I. Habitat of sand dunes. J. Ecol., Oxford, 61(2):509-23, July, 1973.
024. AYYAD, M.A. & GHABBOUR, S.I. Systems analysis of Mediterranean desert ecosystems of northern Egypt. Environ. Conserv., Lausanne, 4(2):91-101, 1977.



025. BAILEY, R.A. Frost pockets and plant succession. B. Wis. Nat. Resour., 41(1):24-5, Jan./Feb. 1976.
026. BAINBRIDGE, A. Effect of nitrogen of the host on barley powdery mildew. Plant Pathol., London, 23(4):160-1, 1974.
027. BAKER JUNIOR, M.B. & MACE JUNIOR, A.C. Factors affecting spring runoff on two forested watersheds. Water Resour. B., Baton Rouge, 12(4): 719-29, 1976.
028. BALDING, F.R. & CUNNINGHAM, G.L. The influence of soil water potential on the perennial vegetation of a desert arroyo. Southwest. Nat., 19(3):241-8, 1974.
029. BARADZIEJ, E. Net primary production of two marsh communities near Ispina in the Niepolomice Forest (Southern Poland). Ekol. Pol., Varsovia, 22(1):145-72, 1974.

030. BARNES, R.D. & MULLIN, L.J. Selection of forest tree species in Rhodesia. S. Afr. For. J., Pretoria, 98:16-20, 1976.
031. BARDSATÉ, R.J.; PRENKTI, R.T. & FENCHEL, T. Phosphorus cycle of model ecosystems; significance for decomposer food chains and effect of bacterial grazers. Oikos, Kobenhavn, 25(3):239-51, 1974.
032. BARTOS, D.L. Root dynamics of a shortgrass ecosystem. Dissert. Abst. Inter. B, Michigan, 33(2):679, 1972.
033. BAUJARD, P.; COMPS, B. & SCOTTOLA MASSESE, C. Introduction à l'étude écologique de la nématofaune tellurique du massif landais (France). R. Écol. Biol. Sol., Paris, 16(1):61-78, 1979.
034. BAZILEVICH, N.J. Energy flow and biogeochemical regularities of the main world ecosystems. Proc. Int. Congr. Ecol., 1:182-4, 1974.

035. BELL, A.A. Biochemical bases of resistance of plants to pathogens. In: MAXWELL, F.G. & HARRIS, F.A. eds. Proceedings of the Summer Institute on Biological Control of Plant Insects and Diseases. Mississippi, University, 1974. p.403-62.
036. BENECKE, P. Soil water relations and water exchange of forest ecosystems. Ecol. Stud., New York, 19:101-31, 1976.
037. BERG, M.A. van den & BERG, M.M. van den. Frass sampling to determine the population densities and instars of saturniidae (*Lepidoptera*) in pine plantations. Phytophylactica, Pretoria, 6(2):105-8, 1974.
038. BHANDARI, D.C. Agro-ecosystem analysis of the Indian arid zone. I. *Indigofera cordifolia* Heyne ex Roth. as a weed. Agro-Ecosyst., Netherland 5(3):257-62, July, 1979.

039. BILLINGA, W. Plants, man, and the ecosystem. 2. ed. Belmont, Wadsworth, 1970. 170p.
040. BILLINGS, W.D. The structure and development of old field shortleaf pine stands and certain associated physical properties of the soil. Ecol. Monog., Durham, 8:437-99, 1938.
041. BLACKMAN, G.E. & WILSON, G.L. Physiological and ecological studies in the analysis of plant environment. VI. The constancy for different species of a logarithmic relationship between net assimilation rate and light intensity and its ecological significance. Ann. Bot. N.S., Oxford, 15:63-94, 1951.
042. BLAIR, W.F. The evolution of ecosystems and its contribution to biogeography and evolutionary theory; introduction. Proc. Int. Congr. Ecol., 1:196-7, 1974.
043. BLASCO, F. The mangroves of India. Trav. Sect. Sci., Tech., Pundichery, 14(1):1-175, 1975.

044. BLISS, L.C. Arctic tundra ecosystems. Annu. Rev. Ecol. Syst., Palo Alto, 4:359-99, 1973.
045. BLISS, L.C. & KERIK, J. Primary production of plant communities of the Truelove Lowland, Devon Island, Canada-rock outcrops. In: BLISS, L.C. & WIELGOLASKI, F.E. eds. Primary production and production processes, Tundra biome; proceedings of a Conference, 31, Dublin, 1973. s.l., Tundra Biome Steering Committee, 1973. p.27-36.
046. BLUM, W.E. Ecosistemas florestais: ciclo dos bio-elementos. Floresta, Curitiba, 9(1):39-46, Jun. 1978.
047. BOATMAN, D.J. Silver Flowe. I. Some structural & hydrological features of Brishie Bog & their bearing on pool formation. J. Ecol., Oxford, 61(3):653-66, Nov. 1973.
048. BOERBOOM, J.H.A. Succession studies in the humid tropical lowlands of Surinam. Proc. Int. Congr. Ecol., 1:343-7, 1974.

049. BOLING JUNIOR, R.H.; GOODMAN, E.D. & VAN SICKLE, J.E.; ZIMMER, J.O.; CUMMINS, K.W.; PETERSEN, R.C. & REICE, S.R. Toward a model of detritus processing in a woodland stream. Ecology, Brooklyn, 56(1):141-51, 1975.
050. BONNET, L.; CASSAGNAU, P. & DEARVENG, L. Un exemple de rupture de l'équilibre biocénotique par déboisement: les peuplements to Collemboles édaphiques du Plau d'Engaby (Hantes-Pyrenees). R. Ecol. Biol. Sol., Paris, 13(2):337-51, 1976.
051. BORMANN, F.H.; LIKENS, G.E. & EATON, J.S. Biotic regulation of particulate and solution losses from a forested ecosystem. BioScience. Washington, 19(7):600-10, 1969.
052. BORMANN, F.H.; LIKENS, G.E.; FISHER, D.W. & PIERCE, R.S. Nutrient loss accelerated by clear-cutting of a forest ecosystem. Science, 159:882-4, 1968.
053. BORMANN, F.H.; LIKENS, G.E. & MELILLO, J.M. Nitrogen budget for an aggrading northern hardwood forest ecosystem. Science, New York, 196(4293): 981-3, May, 1977.

054. BORMANN, F.H.; SICCAM, T.G.; LIKENS, G.E. & WHITAKER, R.H. The Hubbard Brook ecosystem study; composition and dynamics of the tree stratum. Ecol. Monogr., Durham, 40(4):373-88, 1970.
055. BOROWSKI, S.; KRANSINSKI, Z. & MILKOWSKI, L. Food and role of European bison in forest ecosystems. Acta Theriol., Varsovia, 12:367-76. 1967.
056. BOTKIN, D.B. Complex ecosystems; models & predictions. Amer. Sci., New Haven, 62(4):448-53, July/Aug. 1974.
057. BOTTORFF, R.L. Cotton wood habitat for bird in Colorado. Amer. Birds., 28(6):975-9, 1974.
058. BOURLIÈRE, F. & HADLEY, M. Ecosystem analysis: combination of qualitative and quantitative approaches. In: REICHLE, D.E. ed. Analysis of temperate forest ecosystems. Berlin, Springer-Verlag, 1973. p.1-6 (Ecological Studies, 1).

059. BRAGA, M.M.N. & BRAGA, P.I.S. Estudos sobre a vegetação das Campinas Amazônicas. IV. Estudos Ecológicos na Campina da Reserva Biológica INPA-SUFRAMA, (Manaus-Caracaraí, km 62). Acta amaz., Manaus, 5(3):247-60, dez. 1975.
060. BRAGA, P.I. Aspectos biológicos das Orchidaceae de uma Campina da Amazônia Central. Acta amaz., Suple. Manaus, 7(2):1-89, Jun. 1977.
061. BRANSON, F.A.; MILLER, R.F. & McQUEEN, I. Moisture relationships in twelve northern desert shrub communities near Grand Junction, Colorado. Ecology, Durham, 57(6):1104-24, 1976.
062. BRENGLE, K.G. & WHITFIELD, C.J. Effect of soil temperature on the growth of spring wheat with and without wheat straw mulch. Agron. J., Washington, 61(3):377-9, May/June, 1969.
063. BRITTON, C.M. Correlation of net aerial primary production with selected environmental parameters in an Andropogon-Paspalum grassland ecosystem. Dissert. Abst. Internat. B, Michigan, 37(2):551-2, 1976.



064. BRITTON, C.M.; DODD, J.D. & WEICHERT, A.T. Net aerial primary production of an Andropogon-Paspalum grassland ecosystem. J. Range Manag., 31(5):381-6, Sept. 1978.
065. BROSSET, A. La nidification des oiseaux en foret Gabonaise: architecture, situation des nids et prédation. Terre Vie, Paris, 28(4):579-610, 1974.
066. BRUNIG, E.F. & KLINGE, H. Structure, functioning and productivity in humid tropical forest ecosystems in parts of the neotropics. Mitt. Bundesforschungsanst. Forst Holzwirtsch., Hamburg, 109:87-116, Nov. 1975.
067. CARLE, P. Attraction interspécifique en forêt de *Porthetria dispar* L. (Lepidoptera, Lymantridae) et *Pissodes notatus* Fabr. (Coleoptera, Curculionidae) par les déchets de vermoulure (frass) d' *Orthotomicus erosus* Woll. (Coleoptera, Scolytidae). C. R. Hebd. Seances Acad. Sci. Sér. D, Paris, 280(3):343-6, 1975.

068. CARLSON, J.R. & BUCKWALTER, J.C. Native plants studied in Lake Tahoe area. Soil Conserv. Washington, 40(2):10-1, 1974.
069. CARLTON, J.M. Land-building and stabilization by mangrove. Environ. Conserv., Lausanne, 1(4): 284-94, 1974.
070. CASTRI, F. di. Main problems facing ecologists studying soil ecosystems. In: METHODS of study in soil ecology proc. Paris symposium, 1970. p.15-31.
071. CASTRI, F. di. & MOONEY, H.A. Mediterranean type ecosystems; origin and structure. New York, Springer-Verlag, 1973. 405p. (Ecological Studies, 7).
072. CHADWICK, M.J.; EDWORTHY, K.J.; RUSH, D. & WILLIAMS, P.J. Ecosystem irrigation as a means of groundwater recharge and water quality improvement. J. appl. Ecol., Oxford, 11:231-47, 1974.

073. CHAPHEKAR, S.B.; GANJU, J.; SAHU, A.K. & THAKKAR, K.M. Ecological studies of monsoon vegetation in a crop ecosystem in Thana District, Maha rashtra State. Geobios, Jodhpur, 1(4):98-100, July, 1974.
074. CHAPPEL, H.; AINSWORTH, J.; CAMERON, R. & REDFERN, M. The effect of trampling on a chalk grass land ecosystem. J. appl. Ecol., Oxford, 8: 869-82, 1971.
075. CHESNUTI, T.L. & BARMAN JUNIOR, E.H. Aquatic vascular plants of lake Apopka Florida. Quart. J. Florida. Acad. Sci., Gainesville, 37(1): 60-4, 1974.
076. CHEW, R.M. Consumers as regulators of ecosystems. an alternative to energetics. Ohio J. Sci., 74(1):359-70, Nov. 1974.
077. CLARK, F.E.; WARREN, C.G. & O'DEEN, W.A. Early uptake of <sup>15</sup>N in shortgrass prairie. Geoderma, Amsterdam, 13(1):61-6, 1975.

078. CLYMO, R.S. Growth of Sphagnum; some effects of environment. J. Ecol., Oxford, 61(3):849-69, Nov. 1973.
079. COALDRAKE, J.E. The ecosystems of the Coastal low land (Wallum of Southern Queensland). Melbourne, C.S.I.R.O., 1961. (Bulletin, 283).
080. COLE, N.H.A. Soil conditions, zonation & species diversity in a seasonally flooded tropical grass-herb swamp in Sierra Leon. J. Ecol., Oxford, 61(3):831-47, Nov. 1973.
081. COLEMAN, D.C. A review of root production processes and their influence on soil biota in terrestrial ecosystems. Symp. Br. Ecol. Soc., London, 17:417-34, 1976.
082. COLEMAN, D.C.; ANDREWS, R.; ELLIS, J.E. & SINGH, J.S. Emergency flow and partitioning in selected man-managed and natural ecosystem. Agro-Ecosystems, Amsterdam, 3(1):45-54, Aug. 1976.

083. COLORADO STATE UNIVERSITY, Natural Resource Ecology Laboratory, Fort Collins. Analysis of structure, function, and utilization of grassland ecosystems. Fort Collins, Colorado State University, 1973. v.2.
084. COMERFORD, N.B. & WHITE, F.H. Nutrient input by precipitation in northern Minnesota forest ecosystem. J. Minn. Acad. Sci., St. Paul, 42(2): 22-4, 1976.
085. COOMANS DE BRACHÈNE, A. & DE JAMBLINNE DE MEUX, A. Le chêne dans l'Entre-Sambre-et-Meuse. B. Soc. R. For. Belg., 81(11):431-52, 1974.
086. CUNHA, F.R. The problem of shelter belts. II. Microclimatic and soil aspects. Agron. Mocambicana, Lourenço Marques, 2(1):21-45, Jan./Mar. 1968 (Por.)
087. Cwynar, L.C. The recent fire history of Barron Townships, Algonguin Park. Canad. J. Bot., Ottawa, 55(11):1524-38, June, 1977.

088. DALEN, R. The brushland ecosystem. In: PEOPLE AND BRUSHLAND MANAGEMENT CONFERENCE AND WORK SHOP, 1975. Proceeding., California University, Berkeley Cooperative Extension, 1975. p.11-8.
089. DANIELO, A. Vegetation and soils in the Orinoco delta. Ann. Geogr., Paris, 85(471):555-78, Sept./Otc. 1976.
090. DAVIS, M.B. Pollen evidence of changing land use around shores of Lake Washington. Northwest Sci., Washington, 47(3):113-48, Aug. 1973.
091. DEMPSTER, J.P. The scientific basis of practical conservation; factors limiting the persistence of populations and communities of animals and plants. Proc. R. Soc. London, Ser. B., 197(1126):69-76, 1977.
092. DESPAIN, D.G. Vegetation of Big Horn Mountain, Wyoming, in relation to substrate & climate. Ecol. Monogr., Durham, 43(3):329-55, 1973.

093. DIAZ-FINEDA, F. & GONZALEZ BERNALDEZ, F. Experience obtained with multiple regression models for the description of scrub habitat. An. Inst. Bot. A. J. Cavanilles, Madrid, 32(2): 1333-49, 1975.
094. DI CASTRI, F. & MOONEY, H.A. Mediterranean type ecosystems; origin and structure. New York, Springer-Verlag, 1973. 405p. (Ecological studies, 7).
095. DICK, M.W. Ecology of saprolegniaceae in lentic & littoral muds with a general theory of fungi in lake ecosystem. J. Gen. Microbiol., 65(3): 325-37, Mar. 1971.
096. DOCHINGER, L.S. & SELIGA, T.A. Acid precipitation and the forest ecosystem. BioScience, Washington, 26(9):564-5, Sept. 1976.
097. DORST, J. Un test pour la nouvelle croissance la Guyane. Courr. Nat. Homme Oiseau, 41:1-9, 1976.

098. DOWN, C.G. The relationships between collierywaste particle sizes and plant growth. Environ. Conserv., Lausanne, 1(4):281-4, 1974.
099. DRIFMEYER, J.E. & ODUM, W.E. Lead, zinc, and manganese, in dredgespoil pond ecosystems. Environ. Conserv., Lausanne, 2(1):39-45, 1975.
100. DUKE, J.A. & TERRELL, E.E. Crop diversification matrix; Introduction. Taxon, Utrecht, 23(5/6): 759-99, 1974.
101. DUNCAN, W.H. Vascular halophytes of the Atlantic and Gulf Coasts of North America north of Mexico. In: REIMOLD, R.J. & QUEEN, W.H. eds. Ecology of Halophytes., New York, Academic, 1974. p.23-50.
102. DUVIGNEAUD, P. & SMET, D. de. Le cycle des éléments biogènes dans l'écosystème forêt. In: ÉCOSYSTÈME e productivité, recherches sur l'écosystème forêt. Brussels, Centre d'écologie Générale, 1964.



103. DWYER, J.F. Preservation of wilderness: Adirondack issues and prospects. J. For., Washington, 74(10):692-4, 1976.
104. DYE, A.J. & MOIR, W.H. Spruce-fir forest at its southern distribution in the rocky mountains, New Mexico. Amer. Midl. Nat., Notre Dame, 97(1):133-46, 1977.
105. ECKARDT, F.E. Functioning of terrestrial ecosystems at the primary production level. Paris, UNESCO, 1968. 516p. (Natural Resources Research, 5).
106. EDEN, M.J. Palaeoclimatic influences and the development of savanna in southern Venezuela. J. Biogeogr., 1(2):95-109, 1974.
107. ELIAS, T.S. & IRWIN, H.S. Urban trees. Scient. Amer., Madison, 235(5):111-8, 1976.
108. ELKINGTON, J.B. The impact of development projects on estuarine and other wetland ecosystems. Environ. Conserv., Lausanne, 4(2):135-44, 1977.

109. ELSTON, J. & SNAYDON, R.W. Flows and cycles of natural resources. In: DUCKHAM, A.N.; JONES, J.G.W. & ROBERTS, E.H. eds. Food production and consumption. s.l., 1976. p.27-41.
110. ERNST, W. Studies on hydrature of trees in miombo woodland in South Central Africa. J. Ecol., Oxford, 61(3):667-73, Nov. 1973.
111. ESCOBAR, L.K.; URIVE de C., A.; URAN, A. & HOYOS, L.S. Ecology of mangrove tree plantations. Actual. Biol., Bogotá, 5(14):2-17, Jan./Mar. 1976.
112. ESLER, A.E. & ASTRIDGE, S.J. Tea tree *Leptospermum* communities of the Waitakere Range, Auckland, New Zealand. N.Z.J. Bot., Wellington, 12(4):485-501, 1974.
113. EVANS, G.C. A sack of uncut diamonds: the study of ecosystems and the future resources of mankind. J. Appl. Ecol., Oxford, 13:1-39, 1976.

114. EXPERT PANEL ON PROJECT 7: ECOLOGY AND RATIONAL USE OF ISLAND ECOSYSTEMS, Paris, 1973. Final report. Paris, UNESCO, 1973 80p. (MAB Report Series, 11).
115. FOGEL, R. & CROMACK JUNIOR, K. Effect of habitat and substrate quality on Douglas fir litter decomposition in western Oregon. Canad. J. Bot., Ottawa, 55(12):1632-40, 1977.
116. FORD, E.D. & NEWBOUD, P.J. The biomass and production of ground vegetation and its relation to tree cover through a deciduous woodland cycle. J. Ecol., Oxford, 65(1):201-12, 1977.
117. FORGIE, C.D. Control of adult stem weevil in rye grass seed crops with chlorpyrifos. Proc.N.Z. Weed Control Conf., 27:182-6, 1974.
118. FRANKLIN, J.F. & WARING, R.H. Predicting short and long term changes in the function and structure of temperate forest ecosystems. Proc. Int. Congr. Ecol., 1:229-32, 1974.

119. FRANZIE, O. Biophysical aspects of species diversity in tropical rain forest ecosystems. Biogeographica, 8:69-83, 1977.
120. FRENCH, N.R. & GRANT, W.E. Small mammal energetics in grassland ecosystems. Ecol. Monogr., Durham, 46(2):201-20, 1976.
121. FRESON, R.; GOFFINET, G. & MALAISSE, F. Ecological effects of the regressive succession Muhu-lu-Miombo-Savannah in Upper-Shaba. Proc. Int. Congr. Ecol., 1:365-71, 1974.
122. FRIEMANN, E.I. & OCAMPO, R. Endolithic blue-green algae in the dry valleys; primary producers in the Antarctic desert ecosystem. Science, New York, 193(4259):1247-9, Sept. 1976.
123. GALLUN, R.L. Genetic interrelationships between host and organism and influence on resistance. In: MAXWELL, F.G. & HARRIS, F.A. eds. Proceedings of the Summer Institute on Biological Control of Plant Insects and Diseases. Mississippi University, 1974. p.395-402.

124. GARDNER, W.R. Dynamic aspects of soil-water availability to plants. Ann. R. Plant Physiol., Washington, 16:323-42, 1965.
125. GARRETT, A.R. Compositional changes of ecosystem segments during chronic gamma irradiation. Diss. Abstr. Sect. B., Anne Arbor, 29(5):1571B. Nov. 1968.
126. GATES, C.T. & MUIRHEAD, W. Studies of the tolerance of Atriplex species. I. Environmental characteristics and plant response of *A. versicaria*, *A. nummularia* and *A. semibaccata*. Aust. J. Exp. Agr. Anim. Husb., Melbourne, 7:39-49, 1967.
127. GENERAL ASSEMBLY OF THE SPECIAL COMMITTEE FOR THE INTERNATIONAL BIOLOGICAL PROGRAM, 5., Seattle, 1972. Productivity of world ecosystems; proceedings of a symposium. Washington, National Academy of Sciences, 1975. 166p.

128. GETAHUN, A. The role of wild plants in native diet in Ethiopia. Agro-Ecosystems, Amsterdam, 1(1):45-56, 1974.
129. GIESEL, J.T. Reproductive strategies as adaptations to life in temporally heterogeneous environments. Annu. R. Ecol. Syst., Palo Alto, 7: 57-79, 1976.
130. GIFFORD, G.F. Approximate annual budgets of two chained pinyon-juniper sites. J. Range Manage., Baltimore, 28(1):73-4, 1975.
131. GLIWICZ, Z.M. Stratification of kinetic origin and its biological consequences in a neotropical man-made lake. Ekol. Pol., Varsovia, 24 (2):197-209, 1976.
132. GODFREY, P.J. & GODFREY, M.M. The role of overwash and inlet dynamics in the formation of salt marshes on North Carolina barrier islands. In: REINOLD, R.J. & QUEEN, W.H. eds. Ecology of Halophytes; proceedings of a symposium held in Minnesota, 1972. New York, Academic, 1974, p. 407-27.

133. GOKSOYR, J. Decomposition, microbiology, and eco system analysis. In: WIELCOSASKI, F.E. ed. Fennoscandian tundra ecosystems. Pt. 1. Plants and microorganisms, New York, Springer-Verlag, 1976. p.230-8.
134. GOLFARI, F.B. Tropical ecological systems trends in terrestrial and aquatic research. New York, Springer-Verlag, 1975. 398p.
135. GOLLEY, F.B.; MCGINNIS, J.T. & CLEMENTS, R.G. La biomasa y la estructura mineral de algunos bos ques de Darién Panamá. Turrialba, 21(2):189-96, 1971.
136. GOLLEY, F.B. & MEDINA, E. eds. Tropical ecological systems; trends in terrestrial and aquatic re search. Berlin, Springer-Verlag, 1975. 398p. (Ecological Studies, 11).
137. GÓMEZ-POMPA, A. Recovery of tropical ecosystems. In: FARNWORTH, E.G. & GOLLEY, F.B. eds. Fragi le ecosystems. Evaluation of research and ap plications in the Neotropics. New York, Sprin ger-Verlag, 1974. p.113-38.

138. GOODALL, D.W. Studying the effects of environmental factors on ecosystems. In: REICHLE, D.E. ed. Analysis of temperate forest ecosystems. Berlin, Springer-Verlag, 1973. p.19-28. (Ecological Studies, 1).
139. GRAY, A. J. & SCOTT, R. The ecology of Morecambe bay. VII. The distribution of *Puccinellia maritima*, *Festuca rubra* and *Agrostis stolonifera* in the salt marshes. J. appl. Ecol., Oxford, 14 (1):229-41, Apr. 1977.
140. GREGOIRE, A. Effects of the decennial clearing of the chaudane (04) reserve on the biocenosis of Verdun (October, 1974). Biol. Ecol. Med., 2 (2):15-26, 1975.
141. GRELLER, A.M.; GOLDSTEIN, M. & MARCUS, L. Snowmobile impact on three alpine tundra plant communities. Environ. Conser., Lausanne, 1(2):101-10, 1974.



142. GRIGAL, D.F. The relationship between plant communities and soils in Northeastern Minnesota. Diss. Abstr., Sect. B., Ann Arbor, 29(7):2260B, Jan. 1969.
143. GRUNOW, J.O. & LANCE, G.N. Modal analysis in the sour-mixed bushveld of transvaal. S. Afr. J. Agr. Sci., 11(1):57-63, Mar. 1968.
144. GUILLAUMET, J.L.; BETSCH, J.M.; BLANC, C.; MORAT, P. & PEYRIERAS, A. Study of mountain ecosystems in the Malagasy region. III. Marojezy. IV. Itremo and Ibity, geomorphology, climatology fauna and flora (RCP season 225, 1972-1973, 225 1972-1973). B. Mus. Nat. Hist. Nat. Ser. 3 Ecol. Gen., Paris, 25:29-67, May/June 1975.
145. GUITTET, J. & PAUL, P. La vegetation des pelouses xerophiles de Fontainebleau et ses relations avec quelques facteurs edaphiques, Vegetatio, Den Haag, 29(2):75-88, 1974.

146. GUZIKOWA, M.; LATOCHA, E.; PANCER-KOTEJOWA, E. & ZARZYCKI, K. The effect of fertilization on a pine forest ecosystem in an industrial region. III. Herbs. Ekol. Pol., Varsovia, 24(3):307-18, 1976.
147. HAINES, B.; FOSTER, R.B. Energy flow through litter in a Panamanian forest. J. Ecol., Oxford, 65(1):147-55, 1977.
148. HANSEN, R.A. & JOHNSON, N.E. Culture of the growing forest. One company's approach. J. For., Washington, 72(11):686-91, 1974.
149. HANSSON, L. Small mammal productivity and consumption in spruce forest and reforestation in South Sweden. Oikos, Kopenhagen, 25(2):153-6, 1974.
150. HARNER, R.F. & HARPER, K.T. The role of area, heterogeneity and favorability in plant species diversity of pinyonjuniper ecosystems. Ecology, Durham, 57(6):1254-63, 1976.

151. HARR, R.D. Water flux in soil subsoil on a steep forested slope. J. Hydrol., Amsterdam, 33 (1/2)37-58, 1977.
152. HARRIS, A.S. & FARR, W.A. The forest ecosystem of southeast Alaska. VII. Forest ecology and timber management. Gen. Tech. Rep. USDA For. Serv. Pac. Northwest For. Range Exp. Stn., (25):1-109, 1974.
153. HEAL, O.W. & MacLEAN, S.F. Comparative productivity in ecosystem-secondary productivity. Proc. Int. Congr. Ecol., 1:37, 1974.
154. HEATHCOTE, W.R. Amenity tree planting on a estate in Wales. Queensl. J. For., Brisbane, 70(4): 191-6, 1976.
155. HEINRICH, B. Flowering phenologies; bog, woodland and disturbed habitats. Ecology, Durham, 57 (5):890-9, 1976.

156. HEINRICH, Z. & WOJEWODA, W. The effect of fertilization on a pine forest ecosystem in an industrial region. IV. Macromycetes. Ekol. Pol., Varsovia, 24(3):319-30, 1976.
157. HEITHAUS, E.R. The role of plant-pollinator interactions in determining community structure. Amer. Missouri Bot. Gard., 61(3):675-91, 1974.
158. HELLIWELL, D.R. Value of vegetation for conservation. I. Four land areas in Britain. J. Environ. Manage., 2(2):51-74, Jan. 1974.
159. HENDERSON, G.S.; HARRIS, W.F.; TODD JUNIOR, D.E. & GRIZZARD, T. Quantity and chemistry of throughfall as influenced by forest-type and season. J. Ecol., Oxford, 65(2):365-74, 1977.
160. HENRY, J.D. & SWAN, J.M.A. Reconstructing forest history from live and dead plant material - an approach to the study of forest succession in southwest New Hampshire. Ecology, Brooklyn, 55(4):772-83, 1974.

161. HENRY, R. Population density of *Larix laricina* in a spagnum bog mat habitat. Mich. Acad., Ann Arbor, 5(4):529-35, 1973.
162. HERBST, S.N. & ROBERTS, B.R. The alpine vegetation of the Lesotho Drakensberg; a study in quantitative floristics at Oxbow. J. S. Afr. Bot., 40(4):257-67, 1974.
163. HERRERA, R.; JORDAN, C.F.; KLINGE, H. & MEDINA, E. Amazon ecosystems; their structure and functioning with particular emphasis on nutrients. Interciencia, 3(4):223-32, Jul./Ago. 1978.
164. HINNERI, S.; SONESSON, M. & VEUM, A.K. Soils of Fennoscandian IBP tundra ecosystems. In: WIELGOLASKI, F.E. ed. Fennoscandian tundra ecosystems. Pt. I. Plants and microorganisms. New York, Springer-Verlag, 1976. p.31-40.
165. HOCKING, D. & HOCKING, M.B. Equilibrium solubility of trace atmospheric sulphur dioxide in water and its bearing on air pollution injury to plants. Environ. Pollut., Londres, 13(1):57-64, 1977.

166. HOFFMAN, G.F. & SPLINTER, W.E. Instrumentation for measuring water potential of an intact plant-soil system. Trans. Amer. Soc. Agr. Eng. St. Joseph, 11:38-42, 1968.
167. HOFFMAN, G.F. & SPLINTER, W.E. Water potential measurements of an intact plant-soil system. Agron. J., Washington, 60:408-13, 1968.
168. HOLLAND, P.G.; STEYN, D.G. & FUGGLE, R.F. Habitat occupation by *Aloe ferox* Mill (Lilliaceae) in relation to topographic variations in direct beam solar radiation income. J. Biogeogr., 4 (1):61-72, Mar. 1977.
169. HOLMES, R.T. & STURGES, F.W. Bird community dynamics and energetics in a northern hardwoods ecosystem. J. Anlm. Ecol., London, 44(1):175-200, Feb. 1975.
170. HOPHINSON JUNIOR, C.S. & DAY JUNIOR, J.W. A model of the Barataria Bay salt marsh ecosystem. In: HALL, C.A.S. & DAY JUNIOR, J.W. ed. Ecosystem modeling in theory and practice. s.l., 1977. p.235-65.

171. HUFFAKER, C.B. & WILSON, F. Contributions of biological control to understanding ecosystem dynamics. Proc. Int. Congr. Ecol., 1:304-10, 1974.
172. HUGHES, R.E.; LUTMAN, J.; DALE, J. & THONSON, A.G. Quantitative analyses of the 13th/14th century land holding systems of north-west Waley. Agro-Ecosyst., Amsterdam, 5(3):191-211, July, 1979.
173. HUNTER, P.E. & BANDITSING, C. Predator-prey studies of mites on pecan trees. J. Georgia Entomol. Soc., 9(4):238-45, 1974.
174. HURTUBIA, J. Fundamento teorico acerca de la importancia de la materia organica. In: SEMINARIO REGIONAL DE ESTUDIOS INTEGRADOS SOBRE ECOLOGIA, Buenos Aires, 1970. Montevideo, Oficina de Ciencias de la UNESCO para America Latina, 1971. p.79-88.

175. IDS0, S.B. Climatic effects of increased industrial activity upon the world's established agro-ecosystems. Agro-Ecosystems, Amsterdam, 1(1):7-17, 1974.
176. IGBOZURIKE, M.U. Ecological balance in tropical agriculture. Geogr. Review, New York, 61(4): 519-29, 1971.
177. INAGAKI, H. & LENOIR, A. Une étude d'écologie évolutive; application de la loi de Motomura aux fourmis. B. Ecol. Brunoy, 5(3):207-19, 1974.
178. INTERNATIONAL CONGRESS OF ECOLOGY, 1., The Hague, 1974. Proceedings ... structure, functioning and management of ecosystems. Wageningen, Centre for Agricultural Publishing and Documentation, 1974. 414p.
179. IWAKI, H. Comparative productivity of terrestrial ecosystems in Japan, with emphasis on the comparison between natural and agricultural systems. Proc. Int. Congr. Ecol., 1:40-5, 1974.



180. JACOBS, M. Luzon's highest mountains - conservation proposed. Environ. Conserv., Lausanne, 1(3):232-3, 1974.
181. JACQUARD, P.; POISSONET, P.; DONADIEU, P.; TROUVAT, A. & GALLAIS, A. Relations between diversity and stability in experimental plant systems. Proc. Int. Congr. Ecol., 1:103-8, 1974.
182. JAKOBI, H. Ecosystem of eastern Parana State (Brasil). Biogeographica, 8:43-67, 1977.
183. JANICK, J.; NOLLER, C.H. & RHYKERD, C.L. The cycles of plant and animal nutrition. Scient. Amer., Madison, 235(3):75-86, 1976.
184. JANZEN, D.H. The role of the seed predator guild in a tropical deciduous forest, with some reflexions on tropical biological control. Symp. Br. Ecol. Soc., London, 13:3-14, 1974.

185. JEANSON, C.Y. Geochemical microecology of soils: models and natural environment. Brunoy, Lab. Ecol. Gen. Meseum, 1974. 2p. Apresentado no International Congress of Ecology, Functioning and Management of Ecosystems, 1., Hague, 1974.
186. JENKIN, R.N.; INES, R.R.; DUNS MORE, J.R.; WALKER, S.H.; BIRCHALL, C.J. & BRIGGS, J.S. The agricultural development potential of the Belize Valley, Belize. Land Resour. Study, 24(1): 348, 1976.
187. JOHN, D.M. & LAWSON, G.W. Observations on the marine algal ecology of Gabon. Bot. Mar., Hamburg, 17(4):249-54, 1974.
188. JOHNSON, D.A. & TIESZEN, L.L. Aboveground biomass allocation, leaf growth and photosynthesis patterns in tundra plant forms in arctic Alaska. Oecologia, Berlim, 24(2):159-73, 1976.

189. JOHNSON, R.C.; PREACHER, J.W.; GWALTNEY, J.R. & KENNAMER, J.E. Evaluation of habitat manipulation for ducks in an Alabama beaver pond complex. Proc. Annu. Conf. Southeast. Assoc. Game Fish Comm., 29:512-8, 1976.
190. JORDAN, C.F. Tritium movement in a tropical ecosystem. BioScience, Washington, 20(14):807-12, 1970.
191. KAPPEN, L.; LANGE, O.L.; SCHULZE, E.D.; EVENARI, M. & BUSCHBOM, U. Distributional pattern of water relations and net photosynthesis of *Hamada scoparia* (Pomel) Iljin in a desert environment. Oecologia, Berlin, 23(4):323-34, 1976.
192. KÄRENLAMP, L. Biomass and estimated yearly net production of the ground vegetation at Kevo. In: BLISS, L.C. & WIELGOLASKI, F.E. eds. Primary production and production process, Tundra biome; Proceeding of a Conference, 31., Dublin, 1973. s.l., Tundra Biome Steering Committee, 1973. p.111-4.

193. KARNOSKY, D.F. & STAIRS, G.R. The effects of  $SO_2$  on in vitro forest tree pollen germination and tube elongation. J. Environ. Qual., 3(4):406-9, 1974.
194. KAWECKA, B. Vertical distribution of algae communities in Maljovica Stream (Rila-Bulgaria). Pol. Arch. Hydrobiol., Warszawa, 21(1):211-28, 1974.
195. KEEN, N.T. Specific elicitors of plant phytoalexin production: determinants of race specificity in pathogens? Science, New York, 187(4171):74-6, 1975.
196. KELLMAN, M. Preliminary seed bridges for two plant communities in coastal British Columbia. J. Biogeogr., 1(2):123-33, 1974.

197. KERSHAV, K.A. Studies on lichen dominated systems. V. A primary survey of a raised-beach system in northwestern Ontario. Canad. J. Bot., Ottawa, 51(7):1285-307, July, 1973.
198. KESTEMONT, P. Production lignieuse de la strate arbustive du terril n° 7 de Chapelle-les-Herlaimont. B. Soc. R. Bot. Belg., 107(2):245-57, 1974.
199. KHAN, S.U. Absorption of bipyridylum herbicides by hermic acid. J. Environ. Qual., 3(3):206-6, 1974.
200. KJELVIK, S. Biomass and production in a willow thicket and a sub-alpine birch florest, Hardangervidda, Norway. In: BLISS, L.C. & WIELGOLASKI, F.E. eds. Primary production and production processes, Tundra Biome; Proceedings of a Conference, 31., Dublin, 1973. S.ed., Tundra Biome Steering Committee, 1973. p.115-22.

201. KLEIN, D.A. & MOLISE, E.M. Disposition and micro biological effects of silver Imposition on sub-alpine terrestrial ecosystems. In: ANNUAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY; 75., New York, 1975. Abstracts, New York, 1975. p.208.
202. KOČHEV, K. & TRACZYK, T. Primary production on *Chrysopogon gryllus* - *Andropogon ischaemum* pasture in Sofia Region, Bulfaria, Ekol. Pol., Varsovia, 22(1):133-43, 1974.
203. KRIZEK, D.T.; BAILEY, W.A. & KLUETER, H.H. Effects of relative humidity & type of container on growth of FL hybrid annuals in controlled environments. Amer. J. Bot., New York, 58(6): 544-51, July, 1971.
204. LACRAMPE, J.J. & ALLION, Y. Approache qualitative des effects ponctuels de l'autoroute sur la vegetation. B. Inst. Ecol. Appl. Orleans (2) :12-24, 1974.

205. LANGENHEIM, J.H.; STUBBLEBINE, W.; FOSTER, C. & NASCIMENTO, J.C. Estudos comparativos da via bilidade na composição da resina da folha en tre árvores parental e progênie de espécies se lecionadas de Hymenacea. I. Comparação de popu lações amazônicas e venezuelanas. Acta amaz., Manaus, 7(3):335-4, Set. 1977.
206. LAWREY, J.D. The relative decomposition potenti al of habitats variously affected by surface coal mining. Canad. J. Bot., Ottawa, 55(11): 1544-52, 1977.
207. LEAFE, E.L. Micro-environment, carbon dioxide ex change and growth in grass swards. In: REES, A.R. ed. Crop processes in controlled environ ments. London, Academic, 1972. p.157-74.
208. LEDGARD, N.J. Research into the direct seeding of woody plants in high country revegetation. N. Z. J. For., Wellington, 21(2):253-64, 1976.

209. LEDGER, D.C. The water balance of an exceptional  
lly wet catchment area in West Africa.  
J. Hidrol., Hamesterdam, 24(3/4):207-14, 1975.
210. LEE, B.J. Effects of mirex on litter organisms  
and leaf decomposition in a mixed hardwood fo  
rest in Athens, Georgia. J. Environ. Qual., 3  
(4):305-11, 1974.
211. LEE, J.A. & GREENWOOD, B. The colonisation by  
plants of calcareous wastes from the salt and  
alkali industry in Cheshire, England. Biol.  
Conserv., Barking, 10(2):131-49, 1976.
212. LEE, R. & SAMUEL, D.E. Some thermal and biologi  
cal effects of forest cutting in West Virginia.  
J. Environ. Qual., 5(4):362-6, 1976.
213. LEFEVRE, C. Note sur la g n tique de la tol ran  
ce au zinc chez *Armeria maritima* (Mill.) Willd.  
B. Soc. R. Belg., 107(2):217-22, 1974.



214. LEGOVIC, T. From population to ecosystems models. Bioloski Glas., Zagreb, 80(2):149-61, 1978.
215. LEMÉE, G. Recherches sur les écosystèmes des réserves biologiques de la forêt de Fontainebleau. IV. Entrées d'éléments minéraux par des précipitations et transfert au sol par le pluviolésivage. Oecol. Plant., Paris, 9(3):187-200, 1974.
216. LEMÉE, G. Studies on ecosystems of Fontainebleau forest. II. Decomposition of tree leaf litter & liberation of bioelements. Oecol. Plant., Paris, 8(2):153-73, 1973.
217. LICHTENSTEIN, E.P.; FUHREMANN, T.W. & SCHULZ, K. K. Translocation and metabolism of (<sup>14</sup>C) phosphate as affected by percolating water in a model soil-plant ecosystem. J. Agric. Food Chem. Easton, 22(6):991-6, 1974.
218. LIETH, H. Biological productivity of tropical lands. Unasilva, Roma, 28(114):24-31, 1976.

219. LIETH, H. Comparative productivity in ecosystems the primary productivity. Proc. Int. Congr. Ecol., 1:36, 1974.
220. LIETH, H. The measurement of calorific values of biological material and the determination of ecological efficiency. In: ECKHARDT, F.E. ed. Functioning of terrestrial ecosystems at the primary production level. Paris, UNESCO, 1968. p.233-42.
221. LIGHTENSTEIN, E.P.; SCHULZ, K.R. & LIANG, T.T. Fate of fresh and aged soil residues of the insecticide (14C)-N-2596 in a soil-corn-water ecosystem. J. Econ. Entomol., Oxford, 70(2): 169-75, 1977.
222. LIKENS, G.E. Linkages between terrestrial & aquatic ecosystems. BioScience, Washington, 24(8): 447-56, Aug. 1974.
223. LIKENS, G.E. & BORMANN, F.H. Acid rain; a serious regional environmental problem. Science, New York, 184; 1176-9, 1974.

224. LIKENS, G.E. & BORMANN, F.H. An experimental approach in New England landscapes. In: HASLER, A.D. ed. Coupling of land and water systems. New York, Spring-Verlag, 1975. p.7-29.
225. LIKENS, G.E. & BORMANN, F.H. Effects of forest clearing on the northern hardwood forest ecosystem and its biogeochemistry. Proc. Int. Congr. Ecol., 1:330-5, 1974.
226. LIKENS, G.E. & BORMANN, F.H. Nutrient cycling in ecosystems. In: WIENS, J. ed. Ecosystems: structure and function. Corvallis, Oregon State University, 1972. p.25-67.
227. LIKENS, G.E.; BORMANN, F.H. & JOHNSON, N.N. Nitrification: importance to nutrient losses from a cut-over ecosystem. Science, New York, 163(3872):1205-6, 1969.
228. LIKENS, G.E.; BORMANN, F.H.; JOHNSON, N.M. & PIERCE, R.S. The calcium, magnesium, potassium and sodium budgets for a small forested ecosystem. Ecology, 48:772-85, 1967.

229. LIPKIN, Y. Vegetation of Bitter lakes in Zues Canal water system. Israel J. Zool., 21(3/4) 447-57, 1972.
230. LISBOA, P.L. Estudos sobre a vegetação das campinas Amazônicas. II. Observações gerais e revisão bibliográfica sobre as campinas Amazônicas de areia branca. Acta amaz., Manaus, 5(3):211-23, dez. 1975.
231. LITAV, M. Micro-environmental factors and species interrelationships in three batha associations in the foot-hill region of the Judean Hills. Israel J. Bot., 16(2):79-99, 1967.
232. LONG, R.W. The vegetation of Southern Florida. Queensl. J. Fla. Acad. Sci., Brisbane, 37(1): 33-45, 1974.
233. LOOMAN, J. Biological equilibrium in ecosystems. III. Classification of (plant) ecosystems. Folia Geobot. Phytotaxon, Praga, 11(4):337-65, 1976.

234. LUBKE, R.A.; CLINNING, C.F. & SMITH, F.R. The pattern of the woody species of the Nylsvley Savanna ecosystem project area. Proc. Grassl. Soc. South Africa., 11:29-35, 1976.
235. LUGO, A. Tropical ecosystem structure and function. In: FARNWORTH, E.G. & GOLLEY, F.B. eds. Fragile ecosystems. Evaluation of research and applications in the Neotropics. New York, Sping -Verlag, 1974. p.67-111.
236. LUGO, A. & SNEDAKER, S.C. The ecology of mangroves. Annu. R. Ecol. Syst., Palo Alto, 5: 39-64, 1974..
237. MacDONALD, K.B. & BARBOUR, M.G. Beach and salt marsh vegetation of the North American Pacific Coast. In: REIMOLD, R.J. & QUEEN, W.H. eds. Ecology of Halophytes; proceedings of a symposium held in Minnesota, 1972. New York, Academic, 1974. p.175-233.

238. McDOWELL, W.H. & FISHER, S.G. Autumnal processing of dissolved organic matter in a small woodland stream ecosystem. Ecology, Durham, 57(3):561-9, 1976.
239. MacFADYEN, A. Soil metabolism in relation to ecosystem energy flow & to primary & secondary production. In: METHODS of study in soil ecology proceeding Paris symposium, 1970. p.167-72
240. McKELLAR JUNIOR, H.N. Metabolism and model of an estuarine bay ecosystem affected by a coastal power plant. Ecol. Model., 3(2):85-118, 1977.
241. MacLEAN, C.D. & BOLSINGER, C.L. Stockability equations for California forest land. Res. Note, USDA For. Serv. Pac. Northwest For. Range Exp. Stn., (233):1-10, 1974.
242. MacLEAN, D.A. & WEIN, R.W. Biomass of jack pine and mixed hardwood stands in northeastern New Brunswick. Canad. J. For. Res., 6(4):441-7, Dec. 1976.

243. McMILLAN, C. Ecotypes and ecosystems function. Bioscience, Washington, 19(2):131-4, Feb. 1969.
244. McMILLAN, C. The *Xanthium strumarium* complexes in Australia. Aust. J. Bot., Melbourne, 23(1): 173-92, Feb. 1975.
245. McNAUGHTON, S.J. The role of diversity in the energetics of plant communities. Ohio J. Sci., 74(6):351-8, Nov. 1974.
246. McROY, C.P. & BRIDGES, K.W. Dynamics of seagrass ecosystems. Proc. Int. Congr. Ecol., 1:374-5, 1974.
247. MADGWICK, H.A.I. Biomass and productivity models of forest canopy. In: REICHLE, D.E. ed. Analysis of temperate forest ecosystems. Berlin, Springer-Verlag, 1973. p.47-54, (Ecological Studies, 1).

243. MADSEN, H.S.; MYBURGH, A.C.; RUST, D.J. & BOSMAN, I.P. Codling moth (Lepidoptera: Olethreutidae) : Correlation of male sex attractant trap captures and injured fruit in South African apple and pear orchards. Phytophylactica, Pretoria, 6(3):185-8, 1974.
249. MAHESHWARI, J.K. Plant resources of India. Sci. Cult., Calcuta, 42(1):18-23, 1975.
250. MALL, L.P. & BILLORE, S.K. Production relations with density and basal area in a grassland community. Geobios, Jodhpur, 1(4):84-6, July, 1974.
251. MANN, G. The ecosystem of South America. In: FITTKAU, E.J. Biogeography and ecology in South America. s.n.t., v.1, p.171-29.
252. MARGALEF, R. Diversity, stability and maturity in natural ecosystems. Proc. Int. Congr. Ecol., 1:66, 1974.



253. MARGARIS, N.S. Structure and dynamics in a phy-  
anic (East Mediterranean) ecosystem.  
J. Biogeogr., 3(3):249-59, 1976.
254. MARSH JUNIOR, J.A. Energetic role of algae in re-  
ef ecosystems. Micronesica, 12(1):12-21, June,  
1976.
255. MARTEL, Y.A. & DESCHENES, J.M. Les effets de la  
nuse en culture et de la prairie prolongee sur  
le carbone, l'azote et la structure de que-  
ques sols du Quebec. Can. J. Soil Sci., Otta-  
wa, 56(4):373-83, 1976.
256. MARTIN, C.W. Precipitation and streamwater che-  
mistry in an undisturbed forested Watershed  
in New Hampshire. Ecology, Brooklyn, 60(1):36-  
42, Feb. 1979.
257. MARTINOT-LAGARDE, P. L'aménagement forestiere.  
Courr. Nat. Homme Oiseau, 41:32-41, 1976.

258. MATSUMOTO, T. & ABE, T. The role of termites in an equatorial rain forest ecosystem of West Malasia. II. Leaf litter consumption on the forest floor. Oecologia, Berlin, 38(3):261-74, 1979.
259. MATTOS, C.C.L.V. de; MATTOS, M.D.L.V. de & LAROCHE, R.C. Aspectos do clima e da flora do Parque Nacional da Tijuca. Bras. Flores., Rio de Janeiro, 7(25):3-12, 1975.
260. MATTSON, W.J. Negligible feeding responses by birds to variations in abundance of the bud worm, *Choristoneura pinus* (Lepidoptera: Tortricidae). Great Lakes Entomol., Grand Haven, 7(4):109-11, 1974.
261. MAY, M.S. Probable agents for the formation of detritus from the halophyte, *Spartina alterniflora*. In: REIMOLD, R.J. & QUEEN, W. H. eds. Ecology of Halophytes; Proceedings of a symposium held in Minnesota, 1972. New York, Academic, 1974. p.429-40.

262. MEDWECKA-KORNAS, A. Ecological problems in the conservation of plant communities, with special reference to central Europe. Environ. Conserv. Lausanne, 4(1):27-33, 1977.
263. MEGGERS, B.J.; AYENSU, E.S. & DUCKWORTH, W.D. ed. Tropical forest ecosystems in Africa and South America; A comparative review. Washington, Smithsonian Institution, 1973. 350p.
264. MEIDEN, H.A. van der. Forest and raw material shortage. Agric. Environ., 1(2):139-52, 1974.
265. MEYER, E.R. Late-Quaternary paleoecology of Cuatro Ciénegas Basin, Coahuila, Mexico. Ecology, Brooklyn, 54(5):982-5, 1973.
266. MILLER, G.R. & WATSON, A. Heather moorland; a man-made ecosystem. In: WARREN, A. & GOLDSMITH, F. B. eds. Conservation in Practice. London, J. Wiley, 1974. p.145-66.

267. MILLER, P.C. & MOONEY, H.A. The origin and structure of American aridzone ecosystems the producers: interaction between environments, form and function. Proc. Int. Congr. Ecol., 1:201-9, 1974.
268. MISRA, R.; SINGH, J.S. & SINGH, K.P. A new hypothesis to account for the opposite tropic -biomass structure on land and in water. Cur. Sci., Bangalore, 37(13):382-3, July,
269. MONTEITH, J.L. Solar radiation and productivity in tropical ecosystems. J. appl. Ecol., Oxford, 9:747-66, 1972.
270. MONTSERRAT-RECODER, P. La utilizacion de recursos, en relacion con la estructura y estabilidad del ecosistema. Jaca, Centro Pirenaico de Biologia Experimental, 1974. 26p.
271. MOT, G.O. Nutrient recycling in pastures. In: MAYS, D.A. Forage fertilization, proceedings of a symposium, 19., Muscle Shoals, 1972. s.l., American Society of Agronomy, 1974. p.323-9.

272. MUC, M. Primary production of plant communities of the Truelove Lowland, Devon Island, Canada-Sedge meadows. In: BLISS, L.C. & WIELGOLASKI, F.E. eds. Primary production and production processes, Tundra biome, proceedings of a Conference, 31, Dublin, 1973. s.l., Tundra biome Steering Committee, 1973. p.3-14.
273. MULLER, R.N. & BORMANN, F.H. Role of *Erythronium americanum* Ker. In energy flow and nutrient dynamics of a northern hardwood forest ecosystem. Science, New York, 193(4258):1126-8, Sept. 1976.
274. MULROY, T.W. & RUNDEL, P.W. Annual plants; adaptations to desert environments. Bioscience, Washington, 27(2):109-14, Feb. 1977.
275. MUNN, L.C.; BUCHANAN, B.A. & NIELSEN, G.A. Soil temperatures in adjacent high elevation forests and meadows of Montana. J. Soil Sci. Soc. Amer., Gainesville, 42(6):982-3, 1978.

276. NABHAN, G.P. The ecology of food water farming in arid southwestern North America. Agro-  
Ecosyst., Netherland, 5(3):245-55, July, 1979.
277. NAGARAJAN, S. Wheat stem rust warning using satellite imagery. Proc. Int. Congr. Ecol., 1: 289, 1974. Apresentado no International Congress of Ecology, I., Haye, 1974.
278. NAKANE, K. An empirical formulation of the vertical distribution of carbon concentration in forest soils. Jap. J. Ecol., 26(3):171-4, 1976.
279. NELSONS, J.F. & CHEW, R.M. Factors affecting seed reserves in the soil of a Mojane desert ecosystem, Rock Valley, New County, Nevada. Amer. Midl. Nat., Notre Dame, 97(2):300-20, Apr. 1977.
280. NESOM, G.L. & TREIBER, M. Beech-mixed hardwoods communities; a topo-edaphic climax on the North Carolina coastal plain. Castanea, Morgantown, 42(2):119-40, June, 1977.

281. NEWCOMB, E.H. & PUGH, T.D. Blue-green algae associated with ascidians of the Great Barrier Reef. Nature, London, 253(5492):533-4, 1975.
282. NICHOLS, D.W.; SMITH, H.D. & BKAER, M.F. Rodent populations, biomass, and community relationships in *Artemisia tridentata*, Rush Valley, Utah. Great Basin Nat., Provo, 35(2):191-202, June, 1975.
283. NICHOLS, K.H. Nutrient - phytoplankton relationship in the Holland Marsh, Ontario. Ecol. Monogr., Durham, 46(2):179-99, 1976.
284. NIENHUIS, P.M. Dynamics of environment and algal vegetation in salt marshes in the southwestern Netherlands. Acta Bot. Neerl. Amsterdam, 25(1):120-1, Feb. 1976.
285. NILSON, A. Host relations and population changes of *Ixodes trianguliceps* (Acari) in northern Scandinavia. Oikos, Kopenhagen, 25(3):315-20, 1974.

286. NILSSON, T. Microscopic studies on the degradation of cellophane and various Cellulose-fibres by wood-attacking microfungi. Stud. For. Suec., Stockholm, 117:1-32, 1974.
287. NOY-MEIR, I. Desert ecosystems; environment & producers. Annu. R. Ecol. Syst., Palo Alto, 4:25-51, 1973.
288. NWOKE, F.I.O. & OKONJWO, S.N.C. Facultative hemiparasitism in *Buchnera hispida* Buch.-Ham. ex Don. Ann. Bot., Oxford, 38(158):993-1002, 1974.
289. ODUM, E.P. Halophytes, energetics and ecosystems. In: REINOLD, R.J. & QUEEN, W.H. eds. Ecology of Halophytes; proceedings of a symposium held in Minnesota, 1972. New York, Academic, 1974. p.599-602.
290. OLECHOWICZ, E. The role of coprophagous dipterans in a mountain pasture ecosystem. Ekol. Pol., Varsovia, 24(2):125-65, 1976.



291. OLSON, J.S. Energy storage and the balance between producers and decomposers in ecological systems. Ecology, Brooklyn, 44:322-3, 1963.
292. OLSZOWSKI, J. The effect of fertilization on a pine forest ecosystem in an industrial region. VII. Summary of the studies. Ekol. Pol., Warszawa, 24(3):359-63, 1976.
293. ONISHI, H. & SWANSON, E.R. Effect of nitrate and sediment constraints on economically optimal crop production. J. Environ. Qual., 3(3):234-8, 1974.
294. ORIANI, G. Tropical population ecology. In: FARNWORTH, E.G. & GOLLEY, F.B. eds. Fragile ecosystems. Evaluation of research and applications in the Neotropics. New York, Springer-Verlag, 1974. p.5-65.
295. OSLER, R.; AMICI, A. & BELLI, G. Transmission of rice "Giallume" by an aphid *Rhopalosiphum padi*. Riv. Patol. Veg. 10(1):5-17, 1974.

296. O'SULLIVAN, P.E. Pollen analysis of Mor humus layers from a native Scots pine ecosystem, interpreted with surface samples. Oikos, Acta Oecol. Scand., Kopenhagen, 24(2):259-72, 1973.
297. OTTERMAN, J.; WAISEL, Y. & ROSENBERG, E. Western Neger and Sinai ecosystems; comparative study of vegetation albedo, and temperature. Agro-Ecosystems, Amesterdam, 2(1):47-59, Mar. 1975.
298. PAHLSSON, L. Influence of vegetation on microclimate and soil moisture on a Scanian hill. Oikos, Kopenhagen, 25(2):176-86, 1974.
299. PÄIVÄNEN, J. Nutrient removal from Scots Pine canopy on drained peatland by rain. Acta For. Fenn., Helsinki, 139:1-19, 1974.
300. PALMER, F. World timber suppliers and European requirements. Commonw. For. R., 53(3):199-204, 1974.

301. PANDEYA, S.S. Dynamics of net primary productivity of grazing land and forest ecosystems in Western India. Proc. Int. Congr. Ecol., 1:46-51, 1974.
302. PARKER, B.C.; KRUTCHKOFF, R.G. & HOWELL, L.W. Lake Bonney ecosystem: mathematical model. Antarct J.U.S., Washington, 11(3):190-1, Sept, 1976.
303. PARKINSON, J.A. The use of atomic absorption spectroscopy in the analysis of ecological materials. Scan Spectrom. Chromatogr. Anal. News, 4 17-9, 1974.
304. PARRISH, J.A.D. & BAZZAZ, F.A. Underground niche separation in successional plants. Ecology, Durham, 57(6):1281-8, 1976.
305. PAYTON, I.J. & BRASCH, D.J. Growth and nonstructural carbohydrate reserves in *Chionocholea rigida* and *C. macra*, and their short-term response to fire. N. Z. J. Bot., Wellington, 16(4): 435-60, 1978.

306. PEDEN, D.G.; VAN DYNE, G.M.; RICE, R.W. & HANSEN, R.M. The trophic ecology of *Bison bison* L. on shortgrass plains. J. appl. Ecol., Oxford, 11 (2):489-97, 1974.
307. PELT, J.M.; HAYON, J.C. & YOUNOS, M.C. Flora and vegetation of a halophilous steppe zone on the border of Amu Darya (Alghanistan). Acad. Sci. C.R., Ser. D., 267(5):505-8, July, 1968.
308. PESENKO, YU. A. Application of indicators of similarity for analysis of closeness of biocenotic relation between ecosystem components (illustrated by an investigation of the correlation between entomophylous plants and the composition of the population of pollinator bees). Sov. J. Ecol., New York, 7(2):98-102, Mar./Apr. 1976.

309. PETERS, W.L. Suelos e ecosistemas del trópico húmedo. In: REUNIÓN TÉCNICA DE PROGRAMACIÓN SOBRE INVESTIGACIONES ECOLÓGICAS PARA EL TRÓPICO AMERICANO, Maracaibo, 1973. Informe. Maracaibo, IICA-TRÓPICOS, Facultad de Agronomía, Universidad del Zulia, 1973. p. irr. (IICA. Informes de Conferências, Cursos y Reuniones. Doumento, 8).
310. PETRIDES, G.A. The overgrazing cycle as a characteristic of tropical savannas and grasslands in Africa. Proc. Int. Congr. Ecol., 1: 86-91, 1974.
311. PIERCE, W.G. & KERSHAW, K.A. Studies on lichen-dominated systems. XVII. The colonization of young raised beaches in northwestern Ontario. Can. J. Bot., Ottawa, 54(14):1672-83, July, 1976.
312. POLAKOWSKI, B.; REJOWSKI, A. & RYTELEVSKI, J. Dynamics of the vegetation of new managed meadows. Ekol. Pol., Varsovia, 23(4):603-25, 1975.

313. POLUNIN, N. Vegetation & animal habitat. Natur Can., Toronto, 98(3):515-28, May/June, 1971.
314. POORE, D. The values of tropical moist forest ecosystems. Unasyiva, Roma, 28(112/3):127-43, 1976.
315. PORTER, K.G. The plant-animal interface in fresh water ecosystems. Amer. Sci., New Haven, 65(2):159-70, Mar./Apr. 1977.
316. POTTINGER, R.P. The role of insects in modified terrestrial ecosystems. N. Z. Entomol., Wellington, 6(2):122-31, 1976.
317. POULTON, C.E. A comparative interregional analysis of selected data from LANDSAT-1 and EREP for the inventory and monitoring of natural ecosystems. In: EARTH RESOURCES SURVEY SYMPOSIUM, 1., 1975. Proceedings of the NASA. s. 1. National Aeronautics & Space Adm., 1975. (1 - A) p.469-77.

318. POWELL, J. Relationships between stocking rate, soil types and utilization during different summer grazing periods for range species. Res. Rep. Oklahoma Agric. Exp. Stn., 705:22-3, 1974.
319. POWER, J.F. Nitrogen transformations in the grass land ecosystems. Colorado, State University. Range Science Department, 1978. p.195-204. (Science Series, 26).
320. PRANCE, G.T.; RODRIGUES, W.A. & SILVA, M.F. da. Inventário florestal de um hectare de mata de terra firme km 30 da Estrada Manaus-Itacoatiara. Acta amaz., Manaus, 6(1):9-35, mar. 1976.
321. PRICE, D.W. Vertical distribution of small arthropods in a California pine forest soil. Ann. Entomol. Soc. Amer., Columbus, 68(1):174-80, 1975.
322. PROPOSED European network of protected areas. Environ. Conserv., Lausanne, 1(2):86, 1974.

323. QUEZEL, P. Circum-Mediterranean forest ecosystems. Nat. & Resour., Paris, 12(3):16-23, July/Sept. 1976.
324. QUINN, J.A. *Convolvulus sepium* in old field succession on New Jersey Piedmont. B. Torrey Bot. Club., New York, 101(2):89-95, Mar./Apr. 1974.
325. RABINOVICH, J. El análisis de sistemas en ecología. In: SEMINARIO REGIONAL DE ESTUDIOS INTEGRADOS SOBRE ECOLOGIA, Buenos Aires, 1970. Actas. Montevideo, Oficina de Ciencias de la UNESCO Para América Latina, 1971. p.151-66.
326. RABINOVICH-VIN, A. & ORSHAN, G. Ecological studies on the vegetation of the Upper Galilee, Israel. I. A vegetation map of the Bar'am-Malkiyya area. Israel J. Bot., 23(1/2):20-37, 1974.



327. RADWAN, M.A.; CROUCH, G.L. & ELLIS, W.D. Influence of fertilizer nitrogen source on deer browsing and chemical composition of nursery-grown Douglas-fir. Res. Pap., USDA For. Serv. Pac. Northwest For. Range Exp. Stn., Portland, 182:1-6, 1974.
328. RAMAM, S.S. Biomass production, distribution and change in the even-aged plantations of *Cryptomeria japonica*. In: INTERNATIONAL CONGRESS OF ECOLOGY, STRUCTURE, FUNCTIONING AND MANAGEMENT OF ECOSYSTEMS, 1., Hague, 1974. 1p. (Mimeografado).
329. RATKOWSKY, D.A. & RATKOWSKY, A.V. Changes in the abundance of the vascular plants of the Mount Wellington Range, Tasmania following a severe fire. Pap. Proc. R. Soc. Tasmania, Hobart, 110:63-79, 1976.
330. REAM, R.R. & OHMANN, L.F. Analysis of wilderness ecosystems. In: INTERNATIONAL SYMPOSIUM ON STAT ECOLOGY, New Haven, 1969. v.3, p.123-31.

331. REHFUESS, K.E. Strains on forest ecosystems; Possible means of prevention & control. Forstwiss Centralbl. 93(1):10-9, Feb. 1974. (Sumário Inglês).
332. REICHLE, D.E. Analysis of temperate forest ecosystems. Berlin, Springer-Verlag, 1970. 304p. (Ecological studies: analysis on synthesis, 1).
333. REICHLE, D.E.; OLSON, J.S.; O'NEILL, R.V. & SHUGART, H.H. Productivity and carbon metabolism of broadleaved forests. A summary of progress from the International Biological Program. Proc. Int. Congr. Ecol., 1:193, 1974.
334. REICHLE, D.E.; O'NEILL, R.V.; SHUGART, H.H. & HARRIS, W.F. Principles of energy and material exchange in ecosystems. In: INTERNATIONAL CONGRESS OF ECOLOGY, 1, 1974. Proceedings, Wageningen, Centre for Agricultural Publishing and Documentation, 1974. p.11.

335. REIDEL, R.M. & LARSEN, P.O. Interrelationships of *Aphelenchoides fragariae* and *Xanthomonas begoniae* on *Rieger begonia*. J. Nematol., Riverside, 6(4):215-6, 1974.
336. RIBEIRO, M. de N.G. & SANTOS, A. dos. Observações microclimáticas no ecossistema Campina Amazônica. Acta amaz., Manaus, 5(2):183-9, 1975.
337. RICHARDSON, C.J. Ground water quality in northern Michigan ecosystems as affected by land use patterns and geologic characteristics. Agro-Ecosyst., Netherland, 5(3):231-43, July, 1979.
338. RICKARD, W.H.; CLINE, J.F.; GILBERT, R.O. Pitfall trapping and direct counts of darkling beetles in cheatgrass communities. Northwest Sci., Washington, 48(2):96-101, 1974.

339. RIDGWAT, R.L.; KINZER, R.E. & MORRISON, R.K. Production and supplemental releases of parasites and predators for control of insect and spider mite pest of crops. In: MAXWELL, F.G. & HARRIS F.A. eds. Proceedings of the Summer Institute on Biological Control of Plant Insects and Diseases. Mississippi, University, 1974. p.110-6.
340. RILEY, T.J.; KEASTER, A.J. & ENNS, W.R. Four species of wireworms of the genus Melanotus associated with corn in Missouri. J. Econ. Entomol., Oxford, 67(6):793, 1974.
341. ROGERS, C.B. Bionomics of the carrot beetle in the Texas Rolling Plains. Environ. Entomol., College Park, 3(6):969-74, 1974.
342. ROGERS, L.E. & LAVIGNE, R.J. Environmental effects of western harvester ants on the short grass plains ecosystem. Environ. Entomol., College Park, 3(6):994-7, 1974.

343. ROUSE, W.R. Studies on lichen-dominated systems. V. Interrelation of vegetation & soil moisture in Hudson Bay Lowlands. Canad. J. Bot., Ottawa, 51(7):1309-16, July, 1973.
344. RUPPEL, R.F. Diurnal sampling of the insect complex of alfalfa. Great Lakes Entomol., Grand Haven, 7(4):113-6, 1974.
345. RUSSELL, G. *Fucus distichus* communities in Shetland. J. appl. Ecol., Oxford, 11(2):679-83, 1974.
346. RYAN, D.E. Trees & our environment. Arborist's News, 36(8):109A-13A, Aug. 1971.
347. SANTANTONIO, D.; HERMANN, R.K. & OVERTON, W. Root biomass studies in forest ecosystems. Pedobiologia, Jena, 17(1):1-31, 1977.
348. SANTOS, A. dos & RIBEIRO, M. de N.G. Nitrogênio na água do solo do ecossistema Campina Amazônica. Acta amaz., Manaus, 5(2):173-92, Ago. 1975.

349. SATO, T. A synthesis of studies by the harvest method; Primary production relations in the temperate deciduous forests of Japan. In: REICHLER, D.E. Analysis of temperate forest ecosystems. Berlin, Springer-Verlag, 1973. p.55-72. (Ecological Studies, 1).
350. SCHNETTER, R.; LOZANO-CONTRERAS, G.; SCHNETTER, M. L. & CARDOZO, G.H. Estudios ecológicos en el páramo de Cruz Verde, Colombia. I. Ubicación geográfica, factores climáticos y edáficos. Caldasia, Bogota, 11(54):25-52, Mar. 1976.
351. SCHUTH, C.K.; ISENSEE, A.R.; WOOLSON, E.A. & KEARNEY, P.C. Distribution of  $^{14}C$  and arsenic derived from cacodylic acid in an aquatic ecosystem. J. Agric. Food Chem., Easton, 22(6):99-1003, 1974.
352. SCHUTZ, C.J. Fertilization of fast-growing pines and eucalyptes in South Africa. S. Afr. For. J., Pretoria, 98:44-7, 1976.

353. SCHWEITZER, D.L.; BENSON, R.E. & McCONNEN, R.J.  
A descriptive analysis of Montana's forest re-  
sources. Resour. B., Intermount For. Range  
Exp. Stn., USDA For. Serv., INT-11, 100p. 1975.
354. SCOTTER, C.N.G.; WADE, P.M.; MARSHALL, E.J.P. &  
EDWARDS, R.W. The Monmouthshire Level's drai-  
nage system: its ecology and relation fo agri-  
culture. J. Environ. Manage., 5(1):75-86,  
1977.
355. SEIGUE, A. L'avenir de la forêt méditerranéenne.  
Courr. Nat. Homme Oiseau, 43:127-32, 1976.
356. SHIMONY, C. & FRIEND, H. Ultrastructure of the  
interaction between *Phytophthora infestans* and  
leaves of two cultivars of potato *Solanum tu-*  
*berosum* L. Orion and Majestic. New Phytol.,  
Cambridge, 74(1):59-65, 1975.
357. SHUGART, H.H.; GOLDSTEIN, R.A.; O'NEILL, R.V. &  
MANKIN, J.B. TEEM: A Terrestrial ecosystem  
Energy model for forests. Oecol. Plant., Pa-  
ris, 9(3):231-64, 1974.

358. SICINSKI, J.T. Segetal communities of the Szczerowska (Widawska) Depression Zbiorowiska segetalne kotliny Szczerowski (Widaskie). Acta Agrobot., Varsovia, 27(2):5-94, 1974. Resumo em Inglês.
359. SIDDIQI, M.Y.; CAROLIN, R.C. & MYERSCOUGH, P.J., Studies in the ecology of coastal heath in New South Wales. Regrowth of vegetation after fire. Proc. Linn. Soc. N.S. Wales, Sydney, 101(1):55-63, 1976.
360. SIEGAL, B.Z. & SIEGEL, S.M. Unusual mercury accumulation in lichen flora of Montenegro. Water, Air, Soil Pollut., 5(3):335-7, 1976.
361. SILVA, J. & SARMIENTO, G. Composition of the savannas in Barinas State in relation to soil units. Acta Ci. Venez., Caracas, 27(2):68-78, 1976.



362. SINCLAIR, T.R.; MOWRY, F.L.; BUZZARD, G.H. & KNOERR, K.R. Environmental influences on the daily cycle of CO<sub>2</sub> assimilation and water loss measured micrometeorologically above a loblolly pine plantation. Plant Physiol. Annu. Suppl., 33, 1974.
363. SINGH, N. Energy dynamics and feeding ecology of two grasshopper populations in a grassland ecosystem. Dissert. Abst. Intern B, Michigan, 34(2):542, 1973.
364. SINGH, V.P.; BILLORE, S.K. & MALL, L.P. Relationship between biomass and energy content of primary producer in grassland ecosystems. Geobios, Jodhpur, 1(6):172-4, Nov. 1974.
365. SINHA, R.N. Uses of multivariate methods in the study of stored-grain ecosystem. Environ. Entomol., College Park, 6(2):185-92, 1977.
366. SKARTVEIT, A.; RYDÉN, B.E. & KÄRENLAMPPI, L. Climate and hydrology of some Fenoscandian tundra ecosystems. In: WIELGOLASKI, F.E. ed. Fennoscandian tundra ecosystems. 1. Plants and microorganisms. New York, Springer-Verlag, 1976. p.41-53.

367. SLANKIS, V. Soil factors in fluencing formation of mycorrhizae. Annu. R. Phytopathol., Palo Alto, 12:437-57, 1974.
368. SMITH, F.E. Analysis of ecosystems. In: REICHLE, D.E. ed. Analysis of temperate forest ecosys-tems. Berilm, Springer-Verlag, 1973. p.7-18, (Ecological Studies, 1).
369. SMITH, R.F. Ecology of the desert-type woody plants of Lara and Falcon states, Venezuela, and illustrated key characteristics. Acta Bot. Venez., Caracas, 10(1/4):87-129, 1975.
370. SMITH, R.F. & GORRIN, A. Procedimento em la interpretaci3n de fotografias a3reas en la delimitaci3n de ecosistemas de la cuenca del Rio More re. Caracas, ALAF, 1970.
371. SMITH, R.I.L. & WALTON, D.W.H. A growth analysis technique for assessing regions. Ann. Bot., Oxford, 39(163):831-43, Sept. 1975.

372. SONESSON, M. & LUNDBERG, B. Late Quaternary development of the Tornetrask area, North Sweden. I. Structure of modern forest ecosystem. Oikos, Kopenhagen, 25(2):121-33, 1974.
373. SONESSON, M.; WIELGOLASKI, F.E. & KALLIO, P. Description of Fennoscandian tundra ecosystems. In: WIELGOLASKI, F.E. ed. Fennoscandian tundra ecosystem. I. Plants and microorganisms. New York, Springer-Verlag, 1976. p.3-28.
374. SOSSAINT, P. Soil-vegetation relationships in Mediterranean ecosystems of Southern France. In: D'CASTRI, F. & MOONEY, H.A. eds., Mediterranean type ecosystems. New York, Springer-Verlag, 1973. p.199-210.
375. SPRUGEL, D.G. Dynamic structure of wave-regenerated *Abies balsamea* forests in the north-eastern United States. J. Ecol., Oxford, 64(3):889-911, 1976.

376. STACHURSKI, A. Stabilization of energy transfer by *Ligidium hypnorum* (Cuvier) (Isopoda) population in alder wood (*Carici elongatae-alnetum*). Ekol. Pol., Varsovia, 22(1):3-29, 1974.
377. STACHURSKI, A. & SIMKA, J.R. Methods of studying forest ecosystems: Microorganisms and srophage consumption in the litter. Ekol. Pol., Varsóvia, 24(1):57-67, 1976.
378. STACHURSKI, A. & ZIMKA, J.R. Methods of studying forest ecosystems: nutrient release from the decomposing litter. Ekol. Pol., Varsóvia, 24(2):253-62, 1976.
379. STACHURSKI, A. & ZIMKA, J.R. Methods of studying forest ecosystems: leaf area, leaf production and with drawal of nutrients from leaves of tress. Ekol. Pol., Varsóvia, 23(4):637-48, 1975.

380. STANHILL, G. The water flux in temperate forests: Precipitation and evapotranspiration. In: REICHLER, D.E. ed. Analysis of temperate forest ecosystems. Berlin, Springer-Verlag, 1973. p.242-56. (Ecological Studies, 1).
381. STEINER, K. Genetic differences in resistance of Scotch pine to eastern pine shoot borer. Great Lakes Entomol., Grand Haven, 7(4):103-7, 1974.
382. STERN, K. & ROCHE, L. Genetics of forest ecosystems. Heidelberg, Springer-Verlag, 1974. 330p. (Ecological Studies, 6).
383. STOCKER, M. & GILBERT, F.F. Vegetation and deer habitat relations in southern Ontario; application of habitat classification to white-tailed deer. J. appl. Ecol., Oxford, 14(2):433-44, Aug. 1977.
384. STOCKER, M.; GILBERT, F.F. & SMITH, D.W. Vegetation and deer habitat relations in southern Ontario; classification of habitat types. J. appl. Ecol., Oxford, 14(2):419-32, Aug. 1977.

385. STRIBLEY, D.P. & READ, D.J. The biology of micor  
rhizal infection on uptake of  $^{15}\text{N}$  from label  
led soil by *Vaccinium macrocarpon*. New Phytol.  
Cambridge, 73(6):1149-55, 1974.
386. STUCKEY, R.E. & ELLINGBOE, A.H. Effect of 'envi  
ronmental conditions on  $^{35}\text{S}$  uptaky by *Triticum*  
*aestivum* (Gram.) and transfer to *Erysiphe gra*  
*minis* f. sp. tritici (Fungi) during primary in  
fection. Physiol. Plant Pathol., New York, 5  
(1):19-26, 1975.
387. SUSMEL, L. Energy balance of forest ecosystem.  
Monti. Boschi., Roma, 22(2):3-11, May, 1971.
388. SZWARCBAUM. I. Inter-relationship between halo  
phytes & glycophytes grown on saline & monsali  
ne media. J. Ecol., Oxford, 61(3):775-86, Nov.  
1973.
389. TALLIS, J.H. Studies on southern Pennime peats.  
VI. A radio carbon-dated pollen diagram from  
Featherbed Moss, Derby-Shire. J. Ecol., Ox  
ford, 61(3):743-51, Nov. 1973.

390. TEAL, J.M. & VALIELE, I. Dynamics of vegetation in experimentally fertilized salt marsh ecosystems. In: INTERNATIONAL CONGRESS OF ECOLOGY, STRUCTURE, FUNCTIONING AND MANAGEMENT OF ECOSYSTEMS, 1., Hague, 1974. 1p. (mimeogr.).
391. TEAS, H.J. Ecology and restoration of mangrove shorelines in Florida. Environ. Conserv., Lausanne, 4(1):51-8, 1977.
392. THOMPSON, J.R. Energy budget measurements over three cover types in eastern Arizona. Water Resour. Res., Washington, 10(5):1045-8, 1975.
393. THONON, P. Les insectes de l'écosystème agricole et le régime alimentaire des poussins de Perdrix grise *Perdix perdix* L. . B. Inst. Ecol. Appl., Orléans, (2):3-11, 1974.
394. TODD, R.L.; SWANK, W.T.; DOUGLASS, T.E.; KERR, P. C.; BROCKWAY, D.L. & MONK, C.D. The relationship between nitrate concentration in the southern Appalachian mountain streams and terrestrial nitrifiers. Agro-Ecosystems, Amsterdam, 2(2):127-32, Oct. 1975.

395. TOMIZAWA, C. & KAZANO, H. Some aspects of a model ecosystem fate of carbon, nitrogen and phosphorus in model ecosystem. Appl. Entomol. Zool., 12(1):27-34, 1977.
396. TOWNSEND, G.H. Impact of the Bennett Dam on the Peace-Athabasca Delta. J. Fish. Res. Board Can., 32(1):171-6, 1975.
397. TRENBATH, R.B. Diversity or be damned? Ecologist, London, 5(3):76-83, 1976.
398. TRICART, J. Aspectos de conjunto del ambiente físico. In: SEMINARIO REGIONAL DE ESTUDIOS INTEGRADOS SOBRE ECOLOGIA, Buenos Aires, 1970. Montevideo, Oficina de Ciencias de la UNESCO para América Latina, 1971. p.7-17.
399. TROIDEVAUX, L. Dans la réserve de Derborence, un rescapé de l'exploitation des forêts. *Poria terrestris* (DC ex Fries) Sacc., mycorrhizique sur *Abies alba*, *Larix decidua* e *Picea abies*. Schweiz. Z. Forstwes., Bern, 126(1):65-6, 1975.



400. TURNER, J. & SINGER, M.J. Nutrient distribution and cycling in a sub-alpine coniferous forest ecosystem. J. appl. Ecol., Oxford, 13:295-301, 1976.
401. ULEHLOVA, B.; FINDEISOVA, M. & DOBROVOLNA, E. Carbon and nitrogen budget of some alluvial grassland ecosystems. Transac. Intern. Symp. Humus et Planta, 6:459-66, 1975.
402. UNGAR, I.A. Inland halophytes of the United States. In: REIMOLD, R.J. & QUEEN, W.H. ed. Ecology of Halophytes; Proceedings of a symposium held in Minnesota, 1972. New York, Academic, 1974. p.235-305.
403. UPADHYAY, R.S. & RAI, B. Ecological survey of Indian soil fungi with special reference to Aspergilli, Penicillia and Trichoderma. R. Écol. Biol. Sol., Paris, 16(1):39-49, 1979.
404. UTKIN, A.I. Forest biogeocenoses of the geocryogenic region as specific systems. Sov. J. Ecol., New York, 7(3):202-8, May/June, 1976.

405. VALE, T.R. Sagebrush conversion project; an element of contemporary environmental changes in the Western United States. Biol. Conserv., Bar king, 6(4):274-84, 1974.
406. VAN CLEVE, K. Energy & biomass relationships in alder (*Alnus*) ecosystems developing on Tanana River floodplain near Fairbanks, Alaska. Arct. Alp. Res., 5(3, pt.1):253-60, 1973.
407. VEBLEN, T.T.; DELMASTRO, R.J. & SCHLATTER, J.E. The conservation of *Fitzroya cupressoides* and its environment in Southern Chile. Environ. Conserv., Lausanne, 3(4):291-301, 1976.
408. VELASCO, F. Present state of investigations on the influence of vegetation on various soil processes. An. Inst. Bot. A. J. Cavanilles, Madrid, 32(2):1131-53, 1975.
409. VESEY-FITZGERALD, D. Rare plants and the environment. Environ. Conserv., Lausanne, 1(4):249-50, 1974.

410. VISCNNTI, A.S.; CASTRO, H.F. de; SILVA, H.G.B. da; FERRAZ, M.H.A. & SALLES FILHO, M. Produção de biomassa fungica de Vinhcto fungal. Bras. Açucar., Rio de Janeiro, 68(6):35-45, 1976.
411. VISHNU-MITRE & GUDZER, S. Stratigraphy and paly nology of the mangrove swamps of Bombay. Palaeobotanist, Lucknow, 22(2):111-7, Oct. 1975.
412. VITT, D.H. & SLACK, N.G. An analysis of the vege tation of Sphagnumdominated kettlehole bogs in relation to environmental gradients. Can. J. Bot., Ottawa, 53(4):332-59, Feb. 1975.
413. WALKER, B.H.; NORTON, G.A.; CONWAY, G.R.; COMINS, H.N. & BIRLEY, M. A procedure for multidisci plinary ecosystem research; with reference to the South African savanna ecosystem project. J. appl. Ecol., Oxford, 15(2):481-502, 1978.
414. WALKER, P.J. Cobar regeneration area - the first sixteen years. J. Soil. Conserv. Serv. New S. W., Sydney, 32(3):119-30, 1976.

415. WALSH, J.J.; WHITLEDGE, T.E.; KELLEY, J.C.; HUNSMAN, S.A. & PILLSBURY, R.D. Further transition states of the Baya California upwelling ecosystem. Limnol. Oceanogr., 22(2):264-80, Mar. 1977.
416. WALTER, H. & BOX, E. Global classification of natural terrestrial ecosystems. Vegetatio, Den Haag, 32(2):75-81, 1976.
417. WALTON, D.W.H. Changes in standing crop and dry matter production in an *Acaena* community on South Georgia. In: BLISS, L.C. & WIELGOLASKI, F.E. eds. Primary production and production processes, Tundra biome; Proceeding of a Conference, 31., Dublin, 1973. s.l., Tundra Biome Steering Committee, 1973. p.185-90.
418. WARCHOLISKA, A.U. Communities of segetal weeds of the Piotrkovo plain and their contemporary transformations in connection with the intensification of agriculture (Central Polish Lowland Mesoregion). Acta Agrobot., Varsovia, 27(2):95-193, 1974. Resumo em inglês.

419. WATSON, J.N.P. A haven between two castles; con-  
servation of the north-west Solent. Country  
life, London, 157(4061):1102-4, 1975.
420. WEBBER, B.D. Biomass and nutrient distribution  
patterns in a young *Pseudotsuga menziesii* eco  
system. Canad. J. For. Res., 7(2):326-34, Ju  
ne, 1977.
421. WEETMAN, G.F. The stability of Canadian boreal fo-  
rest ecosystems. Proc. Int. Congr. Ecol.,  
1:115-8, 1974.
422. WEISS, H. A remarkable example of adaptation of  
plant to their biotope: those of mangroves.  
Biol. Ecol. Med., 11 (4):17-27, 1975.
423. WELSH, R.D.; MOORE, R.W. & POTTIGNER, R.P. Chemi-  
cal control of Argentine stem weevil *Hiperodes*  
*conariensis* Kuschel in ryegrass seed crops.  
Proc. N. Z. Weed Pest Control Conf., 27:187-90,  
1974.

424. WHICKER, F.W. Behavior of plutonium terrestrial ecosystems. Radiat. Res., 59(1):10, 1974.
425. WIELGOLASKI, F.E. & KJELVIR, S. Energy content and use of solar radiation of Fennoscandian tundra plants. In: WIELGOLASKI, F.E. ed. Fennoscandian tundra ecosystems. I. Plants and microorganisms. New York, Springer Verlag, 1976. p.201-7,
426. WILHELM, S. The agroecosystem; a simplified plant community. In: APPLE, J.L. & SMITH, R. F. eds. Integrated pest management. s.l., 1976. p.59-70, 1976.
427. WOODDELL, S.R.J. Anthill vegetation in a Norfolk saltmarsh. Oecologia, Berlin, 16(3):221-5, 1974.
428. WOODMANSEE, R.G. Critique and analyses of the grassland ecosystem model Elm. New York, Springer-Verlag, 1978. 324p.

429. WOODWELL, G.M. & BOTKIN, D.B. Metabolism of ter  
restrial ecosystems by gas exchange techniques;  
the Brookhaven approach. In: REICHLE, D.E. ed.  
Analysis of temperate forest ecosystems. Ber  
lin, Springer-Verlag, 1973. p.73-85. (Ecolo-  
gical Studies, 1).
430. WOODWELL, G.M. & WHITNEY, D.E. Flax Pond e $\alpha$ s $\gamma$ s  
tem study; exchanges of phosphorus between a  
salt marsh and the coastal waters of Long Island  
Sound. Marl Biol., Berlin, 41(1):1-6, 1977.
431. WORMELL, P. Woodland Insect population changes on  
the Isle of Rhum in relation to forest history  
and woodland restoration. Scott. For., Edin  
burgh, 31(1):13-36, 1977.
432. ZAVITKOVSKI, J. Ground vegetation biomass, produc  
tion, and efficiency of energy utilization in  
some northern Wisconsin forest ecosystems.  
Ecology, Durham, 57(4):694-706, 1976.

433. ZIMKA, J.R. Predation of frogs, *Rana arvalis* Nilss., in different forest sit conditions. Ekol. Pol., Varsovia, 22(1):31-63, 1974.
434. ZINKE, P.J. Analogies between the soil and vegetation types of Italy, Greece, and California. In: DICASTRI, F. & MOONEY, H.A. eds. Mediterranean type ecosystems. New York, Springer-Verlag, 1973. p.61-82.



## DEGRADAÇÃO E CONSERVAÇÃO

435. ALEXANDER, M. Environmental consequences of rapidly rising food output. Agro-Ecosystems, Amsterdam, 1(3):249-64, 1974.
436. BENNET, C. Interaction of man and tropical environments. In: FARNWORTH, E.G. & GOLLEY, F.B. eds. Fragile ecosystems. Evaluation of research and applications in the neotropics. New York, Springer-Verlag, 1974. p.139-82.
437. BIGARELLA, J.J. Os efeitos do desmatamento. Brasil mad., Rio de Janeiro, 1(8):40-1, Jun. 1977.
438. BUCKHOUSE, J.C. & GIFFORD, G.F. Grazing and debris burning on pinyonjuniper sites-some chemical water quality implications. J. Range Manage., Baltimore, 29(4):299-301, 1976.
439. COLE, D.W. & JOHNSON, D.W. Atmospheric sulfate additions and cation leaching in a Douglas fir ecosystem. Water Resour. Res., Washington, 13(2):313-7, 1977.

440. DEUEL JUNIOR, L.E.; BROWN, K.W.; TURNER, F.C.; WESTFALL, D.G. & PRICE, J.D. Persistence of propanil, DCA, and TCAB in soil and water under flooded rice culture. J. Environ. Qual., 6(2):127-32, 1977.
441. EXPERT PANEL ON PROJECT Nº 1: ECOLOGICAL EFFECTS ON INCREASING HUMAN ACTIVITIES ON TROPICAL AND SUBTROPICAL FOREST ECOSYSTEMS, Paris, 1972. Final report. Paris, UNESCO, 1972. 35p. (MAB Report Series, 3).
442. FEITOZA, L.R. A instabilidade dos ecossistemas, as florestas e a proteção inadvertida do ambiente pelo homem brasileiro. Cariacica, EMCAPA, 1980. 53p.
443. FERRI, M.G. Information about the consequences of accelerated deforestation in Brazil. Proc. Int., Congr. Ecol., 1:355-60, 1974.

444. GIBSON, C.E. & SMITH, R.V. The effects of agriculture on the multipurpose use of water. In: CICRA NORTH WESTERN EUROPEAN REGION SYMPOSIUM, 19., Newcastleupon-Tyne, 1973. Intensive agriculture and the environment, proceedings. Dublin, Agricultural Institute, 1974. p.102-6.
445. GORNY, M. Some pedo-ecological problems concerning the effect of industrial emissions on forest sites. Pedobiologia, Jena, 16(1):27-35, 1976.
446. HEADY, E.O.; NICOL, K.J. & WADE, J.C. Economic trade-offs to limit nonpoint sources of agricultural pollution. Water Air Soil Pollut., 5(4):415-30, 1976.
447. HIRATA, H. & KOGO, H. A model of the ecosystem with the concentrating processes of a pesticide. Int. J. Syst., London, 9(11):1207-14, 1978.

448. HORMBECK, J.W.; LIKENS, G.E. & EATON, J.S. Seasonal pattern in acidity of precipitation and their implications for forest stream ecosystems. USDA For. Serv. Gen. Tech. Rep. NEUS Northeast For. Exp. Stn., 23:597-609, 1976.
449. HOWE, C.W. & ORR, D.V. Effects of agricultural acreage reduction on water availability and salinity in the Upper Colorado River basin. Water Resour. Res., Washington, 10(5):893-7, 1974.
450. KINAKO, P.D.S. Conserving the mangrove forest of the Niger Delta. Biol. Conserv., Barking, 11(1):35-9, 1977.
451. KLERKOWSKI JUNIOR, E.J.; & DAVIS, E.L. Genetic damage to a fern population growing in a polluted environment: segregation and description of gametophyte mutants. Canad. J. Bot., Ottawa, 55(5):542-8, 1977.

452. LEE, A.-H.; LU, P.-Y; METCALF, R.L. & HUS, E.-L.  
The environmental fate of three dichlorophenyl  
mitrophenyl ether herbicides in a rice paddy  
model ecosystem. J. Environ. Qual., 5(4):402-  
6, 1976.
453. LEISTRA, M. & DEKKERS, W.A. Computer leaching of  
pesticides from soil under field conditions.  
Water Air Soil Pollut., 5(4):491-500, 1976.
454. LOFFLER, H. Impacts on forest ecosystems by me-  
chanization. Forstwiss. Centrabl., 93(1):19-  
23, Feb. 1974. (Sumário Inglês).
455. LUTOMSKI, J. & DEBSKA, W. Pesticides residues in  
medicinal plants in Poland. Residue R., 52:  
27-44, 1974.
456. McCALLA, T.M. Toxicity problems in mulch tillage.  
Agric. Environ., 1(2):153-74, 1974.
457. McDOWELL, W.H. & FISHER, S.G. Autumnal processing  
of dissolved organic matter in a small woodland  
stream ecosystem. Ecology. Brooklyn, 57(3):  
561-9, 1976.

458. MERCER, I. The role of the local government in rural conservation. In: WARREN, A. & GOLDSMITH, F.B. Conservation in practices. London, J. WILEY, 1974. p.409-21.
459. MOLL, E.J. The conservation and social importance of the Dwesa nature reserve. S. Afr. J. Sci., Pretoria, 72(12):364, 1976.
460. PETERKEN, G.F. A method for assessing woodland flora for conservation using indicator species. Biol. Conserv., Barking, 6(4):239-45, 1974.
461. PETERKEN, G.F. Habitat conservation priorities in British and European woodlands. Biol. Conserv., Barking, 11(3):223-36, 1977.
462. RAGAB, M.T.H. Simazine persistence in soil and effects of its residue on crop. Canad. J. Plant. sci., Ottawa, 54(4):713-6, 1974.
- \*463. RANA, B.C. & KUMAR, H.D. Ecophysiological studies on the uptake of the pollutants, copper, zinc and phosphate, by certain algae. Indian J. Ecol., 1(1):1-11, 1974.

464. ROGERS, R.D. Methylation of mercury in agricultural soils. J. Environ. Qual., 5(4):454-8, 1976.
465. ROMERO GARCIA, A. Plaguicidas en los agroecosistemas tropicales; evaluación del conocimiento actual del problema. R. Biol. Trop., San José, 24(Supl. 1):69-78, 1976.
466. SCIFRES, C.J. Herbicides and the range ecosystem: residues, research and the role of rangemen. J. Range Manage., Baltimore, 30(2):86-91, 1977.
467. SIMMONS, I.G. National parks in developed countries. In: WARREN, A. & GOLDSMITH, F.B. eds. Conservation in practice. London, J. Willy, 1974. p.371-91.
468. SIMMONS, I.G. National parks in developed countries. In: WARREN, A. & GOLDSMITH, F.B. eds. Conservation in practice. London, J. Willey, 1974. p.393-407.

469. SMITH, W.H. Lead contamination of the roadside ecosystem. J. Air Pollut. Control Assoc. Pittsburgh, 26(3):753-66, 1976.
470. SPAIN, A.V. The effects of carbaryl and DDT on the litter fauna of a corsican pine *Pinus nigra* var. *maritima* forest: a multivariate comparison. J. Appl. Ecol., Oxford, 11(2):467-81, 1974.
471. SRIVASTAVA, A.K. & SINGH, R. Ecological syndrome of weedicides in the wheat-crop ecosystem. Indian J. Ecol., 1(1):24-37, 1974.
472. SUZUKI, H.; YAMATO, Y. & ARIYAMA, T. Occurrence and determination of a herbicide benthocarb in rivers and agricultural drainage. Water Res., New York, 11(3):275-9, 1977.
473. THOMSON, W.R. Tree damage by porcupine in southeast Rhodesia. J. S. Afr. Wildl. Manage Assoc., 4(2):123-7, 1974.



474. TUBBS, C.R. Woodlands; their history and conservation. In: WARREN, A. & GOLDSMITH, F.B. eds. Conservations in practice. London, J. Wiley, 1974. p.131-43.
475. URBAN plants vs pollution; breeding red maples for urban environments. Agric. Res., Washington, 23(2):3-5, 1974.
476. URBAN plants vs pollution; gaining knowledge of SO<sub>2</sub> effects. Agric. Res., Washington, 23(2):5-6, 1974.
477. VOLLMER, A.T.; MAZA, B.G.; MEDICA, P.R.; TURNER, F.B. & NAMBERG, S.A. The impact of off-road vehicles on a desert ecosystem. Environ. Manage., 1(2):115-29, 1976.
478. WELLENSTEIN, G. Biological and eco-toxicological problems regarding aerial application of derivates of phenoxyacetic-acids in forests. Qual. Plant. Foods Human Nutr., 25(1):1-20, Sept. 1975.

479. WINCKER, A. van. Effect of a fumigation on the biological degradation of tobacco mosaic virus. Agro-Ecosystems, Amsterdam, 1(2):131-8, 1974.
480. WRIGHT, R.F.; DALE, T.; GJESSING, E.T.; HENDREY, G.R.; HENRIKSEN, A.; JOHANNESSEN, M. & MUNIZ, I.P. Impact of acid precipitation of freshwater ecosystems in Norway. Water Air Soil Plan Pollut., 6(2/4):483-99, 1976.

481. ADAMSON, C.M. Some effects of soil conservation treatment on the hydrology of a small rural catchment at Wagga. J. Soil Conserv. Serv. N.S.W., Sydney, 32(4):230-49, 1976.
482. AHMED, J.; VAN BAVEL, C.H.M. & HILER, E.A. Optimization of crop irrigation strategy under a stochastic weather regime; a simulation study. Water Resour. Res., Washington, 12(6):1241-7, 1976.
483. ANDREWS, G.L.; HARRIS, F.A.; SIKOROWSKI, P.P. & McLAUGHLIN, R.E. Evaluation of *Heliothis nuclear polyhedrosis* virus in a cottonseed oil bait for control of *Heliothis virescens* and *H. zea* on cotton. J. Econ. Entomol., Oxford, 68(1):87-90, 1975.
484. ASHTON, P.S. & BRUNIG, E.F. The variation of tropical moist forest in relation to environmental factors and its relevance to land-use planning. Mitt. Bundesforschungsanst Forst Holz-wirtschaft, Hamburgo, 109:59-86, Nov. 1975.

485. AUCLAIR, A.N. Ecological factors the development of intensive-management ecosystems in the mid western United States. Ecology, Durham, 57 (3):431-44, 1976.
486. BARRETT, R.L. Progress required in forest 'murse ry practice. S. Afr. For. J., Pretoria, 98: 28-31, 1976.
487. BEAVERS, J.B.; SUTTON, R.A. & NORMAN, P.A. Field tests of inseticides for control of adult *Diaprepes abbreviatus* in citrus. J. Econ. Entomol., Oxford, 68(1):119-21, 1975.
488. BECK, S.D. Theoretical aspects of host plant spe cificity in insects. In: MAXWELL, F.G. & HAR RIS, F.A. eds. Proceedings of the Summer Ins titute on Biological Control of Plant Insects and Diseases. Mississippe, University, 1974. p.290-311.

489. BERLAND, B.R.; BONIN, D.J. & MAESTRINI, S.Y. The importance of inhibiting substances in the control of algae and bacterial populations of marine plankton. Mem. Biol. Mar. Ocean., 4(3): 63-97, 1974.
490. BIRD, A.F. Plant response to root-knot nematode. Annu. R. Phytopathol., Palo Alto, 12:69-85, 1974.
491. BLOOD, P.R.B.; LONGWORTH, J.W. & EVENSON, J.P. Management of the cotton agroecosystem in Southern Queensland: a preliminary modelling framework. Proc. Ecol. Soc. Aust., 9:230-49, 1975.
492. BOLLEN, W.B.; NORRIS, L.A. & STOWERS, K.L. Effect of cacodylic acid and MSMA on nitrogen transformations in forest floor and soil. J. Environ. Qual., 6(1):1-3, 1977.

493. BRUNIG, E.F.; BUCH, M. von.; HEUVELDOP, J. & PANZER, K.F. Stratification of the tropical moist forest for land-use planning. Mitt. Bundesforschungsanst Forst Holzwirtsch., Hamburgo, 109: 1-57, Nov. 1975.
494. BUCKHOUSE, J.C. & GIFFORD, G.F. Water quality implications of cattle grazing on a semiarid watershed in Southeastern Utah. J. Range Manage., Baltimore, 29(2):109-13, 1976.
495. BURBIDGE, A.A. & EVANS, T. The management of nature reserves in Western Australia. West Austral., 23:1-32, 1976.
496. CADWALLADR, D.A. & MORLEY, J.V. Further experiments on the management of saltings pasture for wigeon *Anas penelope* L. conservation at Bridgewater Bay National Nature Reserve, Semerset. J. appl. Ecol., Oxford, 11(2):461-6, 1974.

497. CHANDLER, T.J. The management of climatic resources. In: WARREN, A. & GOLDSMITH, F.B. eds. Conservation in practice. New York, J. Wiley, 1974. p.15-35.
498. CHARLEY, J.L. & WEST, N.E. Plant-induced soil chemical patterns in some shrub-dominated semi-desert ecosystems of Utah. J. Ecol., Oxford, 63(3):945-63, 1975.
499. CHAVOOSHIAN, B.B.; NIESWAND, G.H. & SINGLEY, M.E. Land for vegetative use in an urban environment. J. Environ. Manage., 5(1):37-46, 1977.
500. CHRISTENSEN, P.E. & KIMBER, P.C. Effect of prescribed burning on the flora and fauna of south west Australian forests. Proc. Ecol.Soc.Aust., 9:85-106, 1975.
501. COCHRANE, T.T. Evaluacion de los ecosistemas de sabana de America Tropical para la produccion de ganado de carne: un estudio em marcha. In: TERGAS, L.E. & SÁNCHEZ, P.A. eds. Produccion de pastos em suelos acidos de los tropicos. Cali, CIAT, 1978. p.3-15.

502. COLEMAN, E.A. Vegetation and watershed management, New York, The Rondal, 1953.
503. COOMANS DE BRACHENE, A. & DE JAMBLINNE DE MEUX, A. Silviculture et usage multiple de la foret en East Anglia. B. Soc. R. For. Belg., 81(11): 401-30, 1974.
504. CROAT, T.B. The role of overpopulation and agricultural methods in the destruction of tropical ecosystems. BioScience, Washington, 22(8):465-7, 1972.
505. CROWDER, L.A.; WATSON, T.F. & LANGSTON, D.T. Diapause of the pink bollworm as related to crop maturity. J. Econ. Entomol., Oxford, 68(1): 110-2, 1975.
506. CUMBERLAND, G.L.B.; HONORE, E.N. & FARRELL, C.A. Soldier flyprogress with cultivation and chemical control. Proc. N.Z. Weed Pest Control Conf., 27:222-7, 1974.



507. CUSSANS, G.W. The biological contribution to weed control. Symp. Br. Ecol. Soc., London, 13:97-105, 1974. Proceedings de um simpósio realizado em Oxford, 1972.
508. DAVIS, R.M. Soil conservation on agricultural land: the challenge ahead. J. Soil Water Conserv., Baltimore, 32(1):5-8, 1977.
509. DEMPSTER, J.P. & COAKER, T.H. Diversification of crop ecosystems as a means of controlling pests. Symp. Br. Ecol. Soc., London, 13:106-14, 1974. Proceedings de um Simpósio realizado em Oxford, 1973.
510. DePEW, L.J. Field evaluation of insecticides to control pale western cutworm in winter wheat. J. Econ. Entomol., Oxford, 68(1):856, 1975.
511. DE RIDDER, N.A. The use of models in solving Agricultural development problems. Agric. Environ., 1(1):17-37, 1974.

512. DE SOET, F. Agriculture and the environment.  
Agric. Environ., 1(1):1-15, 1974.
513. DINOOR, A. Role of wild and cultivated plants in the epidemiology of plant diseases in Israel.  
Anu. R. Phytopathol., Palo Alto, 12:413-6, 1974.
514. DOLAN, R.; HAYDEN, B. & HEYWOOD, J. Managing coastal biome interfaces. Nat. & Resour., Paris, 12(1):12-5, Jan./Mar., 1976.
515. DONALD, C.M. & HAMBLIN, J. The biological yield and harvest index of cereals as agronomic and plant breeding criteria. Adv. Agron., Ann Arbor, 28:361-405, 1976.
516. DUELL, R.W. Fertilizing forage for establishment. In: MAYS, D.A. ed. Forage fertilization, proceedings of a symposium, 19., Muscle Shoals, 1972. s.l., American Society of Agronomy, 1974. p.67-93.

517. DUFFEY, E.A.G. Lowland grassland and scrub: management for wildlife. In: WARREN, A. & GOLDSMITH, F.B. eds. Conservation in practice. London, J. Wiley, 1974.
518. DUNSTAN, W.M. & TENORE, K.R. Control of species composition in enriched mass cultures of natural phytoplankton populations. J. Appl. Ecol., Oxford, 11(2):529-36, 1974.
519. EGUAGIE, W.E. The concept and practice of integrated control and prospects of their adoption for West African cacao ecosystem. R. Theobroma, Itabuna, 3(4):35-44, Oct. 1973.
520. EK, A.R. & BURKHART, H.E. Silvicultural considerations in timber inventory. J. For., 74(7):435-7, 1976.
521. ELGABALY, M.M. Water in arid agriculture; salinity and waterlogging in the Near-East region. Ambio Spec. Rep., 6(1):36-9, 1977.

522. FERRI, M.G. Informações sobre a ecologia dos cer\_rados e sobre a possibilidade de seu aproveitamento. Silvic. São Paulo, 3(3):43-60, 1964.
523. FFOLLIOT, P.F. & THORUD, D.B. Vegetation management for increased water yield in Arizona. Tucson, Univ. Arizona. Agric. Exp. Station, 1974. 38p. (Tech. Bulletin, 215).
524. FITTER, A.H. & BRADSHAW, A.D. Responses of *Lolium perene* and *Agrostis tenuis* to phosphate and other nutritional factors in the reclamation of colliery shale. J. appl. Ecol., Oxford, 11(2):597-608, 1974.
525. FLORENCE, R.G. & LAMB, D. Ecosystem processes and the management of radiata pine forests on sand dune in South Australia. Proc. Ecol. Soc. Aust. 9:34-48, 1975.

526. FOIN, T.C.; GARTON, E.O.; BOWEN, C.W.; EVERINGHAM, J.M.; SCHULTZ, R.O. & HOLTON JUNIOR, B. Quantitative studies of visitor impacts on environments of Yosemite National Park, California, and their implication for park management policy. J. Environ. Manage., 5(1):1-22, 1977.
527. FORBES, H.A. "We have a little of everything"; the ecological basis of some agricultural practices in Methana, Trizinia. Ann. N.Y. Acad. Sci., 268:236-50, 1976.
528. FRENTRESS, C.D. & FRYE, R.G. Wildlife management by habitat units; a preliminary plan of action. In: EARTH RESOURCES SURVEY SYMPOSIUM, 1, 1975. Proceedings of the NASA. s.l., National Aeronautics & Space Adm., 1975. p.245-62.
529. GERLOFF, E.D. Techniques, accomplishments and future potential of host plant resistance to Dia brotica. In: MAXWELL, F.G. & HARRIS, F.A. eds. Proceedings of the Summer Institute on Biological Control of Plant Insects and Diseases. Mississipe, University, 1974. p.344-58.

530. GIFFORD, G.E. Loss of particulate organic materials from semiarid watersheds as a result of extreme hydrologic events. Water Resour. Res., Washington, 9(5):1443-9, Oct. 1973.
531. GIFFORD, J.R.; OLIVER, B.F. & TRAHAN, G.B. Control of larvae of the rice water weevil established among rice roots and effect on yield. J. Econ. Entomol., Oxford, 68(1):82-4, 1975.
532. GILL, A.M. Management of fire-prone vegetation for plant species conservation in Australia. Search, East Lansing, 8(1/2):20-5, 1977.
533. GILL, D. Ecological modifications caused by removal of tree & shrub canopies in Mackenzie Delta. Artic., Montreal, 26(2):95-111, June, 1973.
534. HAMILTON, M. Moisture management tips for maximum yields in dry years. Soybean Dig., Hudson, 37(7):12-3, 1977.

535. HARMAN, R. & PETROPOULOS, G.A. The response of *Trigonella foenum-graecum* (Fenugreek) to field inoculation with *Rhizobium meliloti*, 2012. Plant Med., 27(1):53-7, 1975.
536. HARRIS, J.A. & WILLIAMS, D.G. The ecological basis for natural resource management. Proc. Ecol. Soc. Aust., 9:192-203, 1975.
537. HARRIS, P. A possible explanation of plant yield increases following insect damage. Agro-Ecosystems, Amsterdam, 1(3):219-25, 1974.
538. HEWSON, R. & KOLB, H.H. The control of foxes in Scottish forests. Scott. Forest., Edinburgh, 28(4):272-82, 1974.
539. JACKSON, R.H. Perception of environmental damage associated with irrigation. J. Environ. Manage. 5(2):115-26, 1977.

540. JAMESON, D.A.; D'AQUINO, S.A. & BARTLETT, E.T.  
Economics and management planning of range eco-  
systems. Rotterdam, Balkenia, 1974. 244p.
541. JANZEN, D.H. Tropical agro-ecosystems. A.M.A.  
(Agric. Mech. Asia), 7(4):21-31, 1976.
542. JANZEN, D.H. Tropical agroecosystems. Science,  
New York, 182(4118):1212-9, Dec. 1973.
543. JANZEN, D.H. Tropical agroecosystems. In: UNIVER  
SITY OF MICHIGAN, Ann Arbor, Food: Politics eco-  
nomics nutrition and research. Washington,  
1975. p.103-10.
544. JANZEN, D.H. Tropical agroecosystems; These habi  
tats are misunderstood by the temperate zones,  
mismanaged by the tropics. Agric. Mechaniz. in  
Asia, Tokio, 7(4):21-31, 1976.



545. JENKINS, J.N. Use of host plant resistance in pest management or eradication schemes. In: MAXWELL, F.G. & HARRIS, F.A. Proceedings of The Summer Institute on Biological Control of Plant Insects and Diseases. Mississippi, University, 1974. p.394.
546. JOUBERT, D.M. Ecological effects of fire; an overview. S. Afr. J. Sci., 73(6):166-9, 1977.
547. KAZANO, H.; ASAKAWA, M.; TOMIZAWA, C. & TSUGE, S. Balance study of (14C) derived from NCH3-(14C)-labeled 3,5-xylyl methyl carbamate insecticide (XMC) applied on a model ecosystem. Appl. Entomol. Zool., 11(3):263-6, 1976.
548. KING, L.D.; RUDGERS, L.A. & WEBBER, L.R. Application of municipal refuse and liquid sewage sludge to agricultural land. I. Field Study. J. Environ. Qual., 3(4):361-6, 1974.
549. KING, P.D. & MERCER, C.F. Insecticidal control of black beetle on a peat soil type. Proc. N.Z. Weed Pest Control Conf., 27:228-9, 1974.

550. KLATZMANN, J. Agriculture et environment. Aménagement Nat., 35:1-5, 1974.
551. KLUM, J.A. Biochemical basis of resistance of plants to pathogens and insects: insect hormone mimics and selected examples of other biologically active chemicals derived from plant. In: MAXWELL, F.G. & HARRIS, F.A. eds. Proceedings of the Summer Institute on Biological Control of Plant Insects and Diseases. Mississippi, University, 1974. p.463-84.
552. KRANZ, J. Comparison of epidemics. Annu. R. Phytopathol., Palo Alto, 12:335-74, 1974.
553. KRAUSE, W. Plurilateral ecological investigations as a basis for agricultural planning. Agric. Environ., 3(1):45-56, 1976.
554. LAMB, D. Conservation and management of tropical rain-forest: a dilemma of development in Papua New Guinea. Environ. Conserv., Lausanne, 4(2):121-9, 1977.

555. LEENTVAAR, P. Inundation of a tropical forest in Surinam (Dutch Guiana), South America. Proc. Int. Congr. Ecol., 1:348-54, 1974.
556. LIEBHARDT, W.C. Soil characteristics and corn yield as affected by previous applications of poultry manure. J. Environ. Qual., 5(4):459-62, 1976.
557. LIKENS, G.E.; BORMANN, F.H.; JOHNSON, N.M.; FISHER, D.W. & PIERCE, R.S. The effects of forest cutting and herbicide treatment on nutrient budgets in the Hubbard Brook Watershed Ecosystem. Ecol. Monogr., Durham, 40(1):23-47, 1970.
558. LINDQUIST, R.K. Application of acephate to greenhouse tomatoes; external vs. internal foliage residues and vegetable leafminer control. J. Econ. Entomol., Oxford, 68(1):122-3, 1975.
559. LOOMIS, R.S. Agricultural systems. Scient. Amer., Madison, 235(3):99-105, 1976.

560. LUPTON, F.G.H. Plant breeding for disease resistance. Symp. Br. Ecol. Soc., London, 13:87-96, 1974. Proceedings de um Symposium realizado em Oxford, 1972.
561. MACKAY, A.G. & O'CONNOR, B.P. Army caterpillar control in North Island maize and barley with leptomphos. Proc. N.Z. Weed Pest Control Conf., 27:194-7, 1974.
562. MACKAY, A.G. & ROWE, G.R. Chemical control of Argentine stem weevil in maize. Proc. N.Z. Weed Pest Control Conf., 27:191-3, 1974.
563. MacKINNON, J.C. Design and management of farms as agricultural ecosystems. Agro-Ecosystems, Amsterdam, 2(4):277-91, 1976.
564. McLEAN, A. Forestry and the farmer. II. The hedgerow habitat. Agric. North. Isrel., 51(9): 252-3, 1977.

565. MASON, H.C.; BALOCK, J.W.; GUEST, R.T.; KWIETNIAK, R.T.; SMITH, F.F.; ANDERSON, H.V.; DeBLOIS, L. D.; & WIRTH, W.W. Suppression of *Drosophila melanogaster* in commercial tomato fields by area and direct field releases of tepa-sterilized adults. J. Econ. Entomol., Oxford, 68(1): 76-8, 1975.
566. MELO, L.A.S.; TEIXEIRA, L.B. & MORAES, E. de. Potencialidade agrícola das terras da Amazônia Ocidental. Manaus, SUFRAMA/INPA/EMBRAPA, 1979. 128p.
567. MELVILLE, A.R. Landslides on the far north coast. J. Soil Conserv. Serv. N.S.W., Sedney, 32(4): 180-6, 1976.
568. MILLER, W.W.; GUITJENS, J.C. & MAHANNAH, C.N. Quality of irrigation water and surface return flows from selected agricultural lands in Nevada during the 1974 irrigation season. J. Environ. Qual., 6(2):193-200, 1977.

569. MITSCH, W.J. Ecosystem modeling of waterhyacinth management in Lake Alice, Florida. Ecol. Model., 2(1):69-89, Mar. 1976.
570. MONTSERRAT-RECORDER, P. La utilizacion de recursos en relacion con la estructura y estabilidad del ecosistema. Jaca, Centro Pirenaico de Biologia Experimental, 1974. 26p.
571. MURPHEY, A.H. Watershed management increases rangeland productivity. Calif. Agric., Berkeley, 30(7):16-21, 1976.
572. NAVEH, Z. The ecological management of non-arable Mediterranean uplands. J. Environ. Manage., 2(4):351-71, 1974.
573. NEWMAN, J.C. Land inventory aids arid land management. J. Soil Conserv. Serv. N.S.W., Sydney, 32(3):136-42, 1976.
574. NICHOLSON, E.M. Forestry and conservation. Environ. Conserv., Lausanne, 1(2):83-6, 1974.

575. OLAWOYE, O.O. The value of short rotation culture in Nigerian forestry. Commonw. For. Rev., London, 53(3):221-3, 1974.
576. OLIVER, B.F. & GIFFORD, J.R. Weight differences among stalk borer larvae collected from rice lines showing resistance in field studies. J. Econ. Entomol., Oxford, 68(1):134, 1975.
577. OLSON, J.S. & OLSON, H.F. Man and stability of some forest ecosystems. Proc. Int. Congr. Ecol., 1:226, 1974.
578. PASSORE, D. Does North American wildlife management foster unethical hunting? Trans. Fed. Prov. Wildl. Conf., Grand Forks, 38:86-8, 1975.
579. PATON, D.R. Managing southwestern ponderosa pine for the Albert squirrel. J. Forest., Washington, 75(5):264-7, 1977.

580. PEARSON, C.J. Vegetation and environmental changes associated with intensification of agriculture near cities; a study of Sidney Australia. Agric. Environ., 3(1):31-43, Dec. 1976.
581. PETHERAM, R.J. Ecological stability; with a bias towards agro-ecosystem management. Rhod. Sci. News., 10(11):279-82, 1976.
582. PHILLIPS, J. Planning & fulfilment in South African agriculture; ecological approach. Agrekon, Pretoria, 10(1):5-11, Jan. 1971.
583. PICKARD, J. The effect of feral goats *Capra hircus* L. on the vegetation of Lord Howe Island. Aust. J. Ecol., Melbourne, 1(2):103-14, 1976.
584. POTTS, G.R. & VICKERMAN, G.P. Studies in the ce real ecosystem. Adv. in Ecol. Res., New York, 8:107-97, Apr. 1979.



585. RABB, R.L.; STINNER, R.E. & CARLSON, G.A. Ecological principles as a basis for pest management in the agroecosystem. In: MAXWELL, F.G. & HARRIS, F.A. Proceedings of the Summer Institute on Biological Control of Plant Insects and Diseases. Mississippi, University, 1974. p.19-45.
586. RADCLIFF, L.B.; WEIRES, R.W.; STUCKER, R.E. & BARNES, D.K. Influence of cultivars and pesticides on pea aphid, spotted alfalfa aphid, and associated arthropod taxa in a Minnesota alfalfa ecosystem. Environ. Entomol., College Park, 5(6):1195-207, 1976.
587. REEVES, H.C. Use of prescribed fire in land management. J. Soil Water Conserv., Baltimore, 32(2):102-4, 1977.
588. REYNOLDS, K.C. Synthetic meshes for soil conservation use on black earths. J. Soil Conserv. Serv. N.S.W., Sydney, 32(3):145-60, 1976.

589. RICE, E.L. & PANCHOLY, S.K. Inhibition of nitrification by climax ecosystems. III. Inhibitors other than tannins. Amer. J. Bot., New York, 61(10):1095-103, 1974.
590. RIEDEL, R.M. & POWELL, C.C. Control of *Aphelenchoides fragariae* on *Rieger begonia*, with oxamyl. Plant Dis. Rep., Washington, 58(10):911-3, 1974.
591. ROGLER, G.A. & LORENZ, R.J. Fertilization of mid-continent range plants. In: MAYS, D.A. ed. Forage fertilization; proceedings of a symposium, 19., Muscle Shoals, 1972. s.l., American Society of Agronomy, 1974. p.231-54.
592. RUSSEL, D.A.; FREE, W.J. & McCUNE, D.L. Potential for fertilizer use on tropical forages. In: MAYS, D.A. ed. Forage fertilization; proceedings of a symposium, 19., Muscle Shoals, 1972. s.l., American Society of Agronomy, 1974. p.39-65.

593. RUSSELL, W.A.; GUTHRIE, W.D.; KLUN, J.A. & GRINDELAND, R. Selection for resistance in maize to first broad European corn borer by using leaf-feeding damage of the insect and chemical analysis. J. Econ. Entomol., Oxford, 68(1): 31-4, 1975.
594. SAIN, P. & BROADBENT, F.E. Decomposition of rice straw in soils as affected by some management factors. J. Environ. Qual., 6(1):96-100, 1977.
595. SATO, T. Management of man-made forest ecosystems with special reference to the current situation in Japan and prospects for the future. Proc. Int. Congr. Ecol., 1:144, 1974.
596. SCHOENEWEISS, D.F. *Tubercularia ulmea* canker of Tallhedge. Influence of freezing stress on disease susceptibility. Plant Dis. Rep., Washington, 58(10):937-41, 1974.

597. SCHOL, J.M.; LOBATO, J.F.P. & BARRETO, I. Improvement of pastures by direct seedling into native grass in southern Brazil with oats, and with nitrogen supplied by fertilizer or arrowleaf clover. Turrialba, 26(2):144-9, 1976.
598. SCHROEDER, P.M.; DOLAN, R. & HAYDEN, B.P. Vegetation changes associated with barrierdune construction on the outer bank North Carolina. Environ. Manage., 1(2):105-14, 1976.
599. SCHAFER, J.F. Host plant resistance to plant pathogens and insects: history, current status and future outlook. In: MAXWELL, F.G. & HARRIS, F.A. eds. Proceedings of the Summer Institute on Biological Control of Plant Insects and Diseases. Mississippi, University, 1974. p.238-47.

600. SHAVER, T.N. Biochemical basis of resistance of plants to insects. Antibiotic factors other than phytohormones. In: MAXWELL, F.G. & HARRIS, F.A. eds. Proceedings of the Summer Institute on Biological Control of Plant Insects and Diseases. Mississippi, University, 1974. p.285-93.
601. SHORTER, R.; BYTH, D.E. & MUNGOMERY, V.E. Genotype x Environment interactions and environmental adaptation. II. Assessment of environmental contributions. Aust. J. Agric. Res., Melbourne, 28(2):223-35, 1977.
602. SKOVLIN, J.M.; HARRIS, R.W.; STRICKLER, G.S. & GARRISON, G.A. Effects of cattle grazing methods on ponderosa pine-bunchgrass range in the Pacific Northwest. Tech. B. USDA For. Serv., 1531:1-40, 1976.
603. SMOLIK, J.D. & ROGERS, L.E. Effects of cattle grazing and wildfire on soil-dwelling nematodes of the shrub-steppe ecosystem. J. Range Manage., Baltimore, 29(4):304-6, 1976.

604. SOEMARWOTO, O. Rural ecology in development. Proc. Int. Congr. Ecol., 1:410, 1974.
605. SOLARZ, J. & MARTUSEWICZ, L. Some possibilities of rationalizing the management of the tropical moist forest. Beiträge Trop. Landwirtschaft. Veterinarmed., Leipzig, 14(4):379-85, 1976.
606. SOUCHON, C. L'écosystème agricole. Aménagement Nat., Paris, 35:6-7, 1974.
607. SPRINGETT, J.A. The effect of prescribed burning on the soil fauna and on litter decomposition in Western Australian forests. Aust. J. Ecol., Melbourne, 1(2):77-82, 1976.
608. STANHILL, G. A comparative study of the Egyptian agro-ecosystem. Agro-Ecosyst., Amsterdam, 5(3):213-30, July, 1979.
609. STANHILL, G. Energy and agriculture; a national case study. Agro-Ecosystems, Amsterdam, 1(3): 205-17, 1974.

610. SYNNOTT, T.J. & KEMP, R.H. Choosing the best silvicultural system. Unasylya, Roma, 28 (112/113):74-9, 1976.
611. THIELE-WITTING, H.C. Maintenance of previously cultivated land not now used for agriculture. Agric. Environ., 1(2):129-37, 1974.
612. TIMMER, L.W. Suppression of populations of the citrus nematode, *Tylenchulus semipenetrans*, with foliar applications of oxamyl. Plant. Dis. Rep., Washington, 58(10):852-5, 1974.
613. TORRE, J.R. de la. La silvicultura natural en el cuadro de la ordenacion ecologica de la region Mediterranea. B. Est. Cent. Ecol., Madrid, 5(9):3-29, 1976.
614. TUBBS, C.R. Heathland management in the New Forest, Hampshire England. Biol. Conserv., Bar king, 6(4):303-6, 1974.

615. VALGARDSON, D.R. & CORNS, W.G. Influence of glyphosate and crop competition on guack grass control and crop productivity. Canad. J. Plant.Sci. Ottawa, 54(4):789-93, 1974.
616. VARTHA, E.M. Management of lucerne over drilled with "Grasslands Tama" Westerwolds ryegrass, on irrigated Wakanui silt loam. N.Z.J. Exp. Agric. Wellington, 4(3):317-20, 1976.
617. WALKER, B.H. Ecological considerations in the management of semi-arid ecosystems in South-Central Africa. In: INTERNATIONAL CONGRESS OF ECOLOGY, Wageningen, Holanda, 1974. Proceedings. Wageningen, PUDOC, 1974. p.124-9.
618. WATSON, T.F.; CROWDER, L.A. & LANGSTON, D.T. Timing of post-harvest plowing as it influence spring moth emergence of the pink bollworm. J. Econ. Entomol., Oxford, 68(1):129-30, 1975.



619. WEIN, R.W. Changes in arctic Eriophorum Tussock communities following fire. Ecology, Brooklyn, 54(4):845-52, 1973.
620. WHITEHEAD, D.C. Iodine in the U.K. environment with particular reference to agriculture. J. appl. Ecol., Oxford, 16(1):269-79, Apr. 1979.
621. WHITE JUNIOR, A.W.; ASMUSSEN, L.E.; HAUSER, E.W. & TURNBULL, J.W. Loss of 2,4-D in runoff from plots receiving simulated rain fall and from a small agricultural watershed. J. Environ. Qual. 5(4):487-90, 1976.
622. WHITE JUNIOR, A.W.; HARPER, L.A.; LEONARD, R.A. & TURNBULL, J.W. Trifluralin volatilization losses from a soybean field. J. Environ. Qual., 6(1): 105-10, 1977.
623. WIELGOLASKI, F. -E. Phenology in agriculture. In: LIETH, H. ed. Phenology and seasonality modeling. Berlin, Springer-Verlag, 1974. p.369-81. (Ecological Studies, 8).

624. WILLIAMS, O.B.; WELLS, T.C.E. & WELLS, D.A. Gra-  
zing management of Woodwalton Fen: seasonal  
changes in the diet of cattle and rabbits.  
J. Appl. Ecol., Oxford, 11(2):499-516, 1974.
625. WILLIAMS, W. Economic and technological limits  
to crop production. In: CICRA NORTH WESTERN  
EUROPEAN REGION SYMPOSIUM, 19, New castle upon  
-Tyne, 1973. Intensive agriculture and the  
environment; proceedings. Dublin, Agriculture  
Institute, 1974. p.12-8.
626. WILSON, G.J. Carrot rust-fly control at Pukekohe.  
Proc. N.Z. Weed Pest Control Conf., 27:198-  
200, 1974.
627. WINFIELD, A.L. Damage to roses by *Longidorus ma-  
grosoma*. Plant Dis. Rep. Washington, 58(10):  
913-4, 1974.

628. WISEMAN, B.R.; McMILLIAN, W.W. & WIDSTROM, N.W.  
Techniques, accomplishments and future potential of breeding for resistance in corn to the corn earworm, fall armyworm, and maize weevil; and in sorghum to the sorghum midge. In: MAXWELL, F.C. & HARRIS, F.A. eds. Proceedings of Summer Institute on Biological Control of Plant Insects and Diseases. Mississippi, University, 1974. p.381-93,
629. WOODMAN, M.J. Conservation of the farm. Farm Manage., 2(10):572-4, 1974/75.
630. WRIGHT JUNIOR, H.E. Landscape development, forest fires, and wilderness management. Science, New York, 186(4163):487-95, 1974.

# ÍNDICE DE AUTORES

- ABE, T. 258  
 ABROSOV, N.S. 001  
 ADAMS, D.L. 002, 003  
 ADAMS JUNIOR, T.E. 004  
 ADAMSON, C.M. 481  
 ADIS, J. 005  
 AGBOOLA, A.A. 006  
 AHMED, J. 482  
 AINSWORTH, J. 074  
 AKIYAMA, T. 472  
 ALBUQUERQUE, B.W.P. de 011  
 ALCOCK, M.B. 007  
 ALEXANDER, M. 435  
 ALLEN, R. 008  
 ALLEN, T.F.H. 009  
 ALLION, Y. 204  
 AMICI, A. 295  
 AMUNDSEN, C.C. 010  
 ANDERSON, A.B. 011  
 ANDERSON, H.V. 565  
 ANDERSON, M.C. 012  
 ANDERSON, N.L. 013

ANDREWS, G.L. 483  
ANDREWS, R. 014  
ARMENTANO, T.V. 015  
ART, H.W. 016  
ASAKAWA, M. 547  
ASCHMANN, H. 017  
ASHTON, P.S. 484  
ASMUSSEN, L.E. 621  
ASTRIDGE, S.J. 112  
AUCLAIR, A.N. 485  
AUCLAIR, A.N.D. 018  
AUERBACH, S.I. 019  
AUSMUS, B.S. 021  
AUSTIN, M.P. 020  
AXEIROD, D.I. 022  
AYENSU, E.S. 263  
AYYAD, M.A. 023, 024

BAILEY, R.A. 025  
BAILEY, W.A. 203  
BAINBRIDGE, A. 026  
BAKER JUNIOR, M.B. 027

BALDING, F.R. 028  
BALOCK, J.W. 565  
BAMBERG, S.A. 477  
BANDITSING, C. 173  
BARADZIEJ, E. 029  
BARBOUR, M.G. 237  
BARMAN JUNIOR, E.H. 075  
BARNES, D.K. 586  
BARNES, R.D. 030  
BARRETO, I. 597  
BARRETT, G.W. 002, 003  
BARRETT, R.L. 486  
BARSDATE, R.J. 031  
BARTLETT, E.T. 540  
BARTOS, D.L. 032  
BAUJARD, P. 033  
BAZILEVICH, N.I. 034  
BAZZAZ, F.A. 304  
BEAVERS, J.B. 487  
BECK, S.D. 388  
BELL, A.A. 035  
BELLI, G. 295  
BENECKE, P. 036  
BENNET, C. 436

BENSON, R.E. 353  
BERG, M.A. van den 037  
BERG, M.M. van den 037  
BERLAND, B.R. 489  
BETSCH, J.H. 144  
BHANDARI, D.C. 038  
BIGARELLA, J.J. 437  
BILLINGA, W. 039  
BILLINGS, W.D. 040  
BILLORE, S.K. 250, 363  
BIRCHALL, C.J. 186  
BIRLEY, M. 413  
BKAER, M.F. 282  
BLACKMAN, G.E. 041  
BLAIR, W.F. 042  
BLANC, C. 144  
BLASCO, F. 043  
BLISS, L.C. 044, 045  
BLOOD, P.R.B. 491  
BLUM, W.E.H. 046  
BOATMEN, D.J. 047  
BOERBOOM, J.H.A. 048  
BOLING JUNIOR, R.H. 049  
BOLLEN, W.B. 492

BOLSINGER, C.L. 241  
BONIN, D.J. 489  
BONNET, L. 050  
BORMAN, F.H. 051, 052, 053, 054, 223, 224, 225, 226,  
227, 228, 273, 557  
BOROWSKI, S. 055  
BOSMAN, I.P. 248  
BOTKIN, D.B. 056, 429  
BOTTORFF, R.L. 057  
BOUCHAR, A. 018  
BOURLIÈRE, F. 058  
BOWEN, C.W. 526  
BOX, E. 416  
BRADSHAW, A.D. 524  
BRAGA, M.M.N. 059  
BRAGA, P.I. 060  
BRAGA, P.I.S. 059  
BRANSON, F.A. 061  
BRASCH, D.J. 305  
BREngle, K.G. 062  
BRIDGES, K.W. 246  
BRIGGS, J.S. 186  
BRITTO, C.M. 063, 064  
BROCKWAY, D.L. 394  
BROSSET, A. 065



BROWN, K.W. 440  
BRUADBENT, F.E. 594  
BRUNIG, E.F. 066, 484, 493  
BUCH, M. von 493  
BUCHNAN, B.A. 275  
BUCKHOUSE, J.C. 438, 494  
BUCKWALTER, J.C. 069  
BURBIDGE, A.A. 495  
BURKHART, H.E. 520  
BUSCHBOM, U. 192  
BUZZARD, G.H. 361  
BYTH, D.E. 601

CADWALLADR, D.A. 496  
CAMERON, R. 074  
CARLE, P. 067  
CARLSON, G.A. 585  
CARLSON, J.R. 068  
CARLTON, J.M. 069  
CAROLIN, R.C. 359  
CASSAGNAU, P. 050  
CASTRI, F. di 070, 071

CASTRO, H.F. de 410  
CHABBOUR, S.I. 024  
CHADWICK, M.J. 072  
CHANDLER, T.J. 497  
CHAPHEKAR, S.B. 073  
CHAPPEL, H. 074  
CHARLEY, J.L. 498  
CHAVOOSHIAN, B.B. 499  
CHESNUT, T.L. 075  
CHEW, R.M. 076, 279  
CHRISTENSEN, P.E. 500  
CLARK, F.E. 077  
CLEBSCH, E.E.C. 010  
CLEMENTS, R.G. 135  
CLINE, J.F. 338  
CLINNING, C.F. 234  
CLYMO, R.S. 078  
COAKER, T.H. 509  
COALDRAKE, J.E. 079  
COCHRANE, T.T. 501  
COLE, D.W. 439  
COLE, N.H.A. 080  
COLEMAN, D.C. 014, 081, 082  
COLEMAN, E.A. 502

COLORADO STATE UNIVERSITY. Natural Resource Ecology La  
boratory, Fort Collins 083

COMERFORD, N.B. 084

COMINS, H. 413

COMPS, B. 033

CONWAY, G.R. 413

COOMANS DE BRACHÈNE, A. 085, 503

CORNS, W.G. 615

CROAT, T.B. 504

CROMACK JUNIOR, K. 115

CROUCH, G.L. 327

CROWDER, L.A. 505, 618

CUMBERLAND, G.L.B. 506

CUMMINS, K.W. 049

CUNHA, F.R. 086

CUNNINGHAM, G.L. 028

CUSSANS, G.W. 507

CWYNAR, L.C. 087

DALE, J. 172

DALE, T. 480

DALEN, R. 088

DANIELO, A. 089  
D'AQUINO, S.A. 540  
DAVIS, E.L. 451  
DAVIS, M.B. 090  
DAVIS, R.M. 508  
DAY JUNIOR, J.W. 170  
DeBLOIS, L.D. 565  
DEBSKA, W. 455  
DEHARVENG, L. 050  
DE JAMBLINNE DE MEUX, A. 503  
DELMASTRO, R.J. 407  
DEMPSTER, J.P. 091, 509  
DEPEW, L.J. 510  
DE RIDDER, H.A. 511  
DESCHENES, J.M. 255  
DE SOET, F. 512  
DESPAIN, D.G. 092  
DE JAMBLINNE DE MEUX, A. 085  
DEUEL JUNIOR, L.E. 440  
DIAZ-FINEDA, F. 093  
DICASTRI, F. 094  
DICK, M.W. 095  
DINOOR, A. 513  
DOBROVOLNA, E. 401  
DRIFMEYER, J.E. 099

DOCHINGER, L.S. 096

DODD, J.D. 064

DOLAN, R. 514, 598

DONADIEU, P. 181

DONALD, C.M. 515

DORST, J. 097

DOUGLASS, J.E. 394

DOWN, C.G. 098

DUCKWORTH, W.D. 263

DUELL, R.W. 516

DUFFEY, E.A.G. 517

DUKE, J.A. 100

DUM, W.E. 099

DUNCAN, W.H. 101

DUNSMORE, J.R. 186

DUNSTAN, W.M. 518

DUVIGNEAUD, P. 102

DWYER, J.F. 103

DYE, A.J. 104

EATON, J.S. 051, 449

ECKARDT, F.E. 105

EDEN, M.J. 106  
EDWARDS, N.T. 021  
EDWARDS, R.W. 354  
EDWORTHY, K.J. 072  
EGUAGIE, W.E. 519  
EK, A.R. 520  
ELGABALY, M.M. 521  
ELIAS, T.S. 107  
ELKINGTON, J.B. 108  
ELLINGBOE, A.H. 386  
ELLIS, J.E. 082, 014  
ELLIS, W.D. 327  
ELSTON, J. 109  
ANDREWS, R. 082  
ENNS, W.R. 340  
ERNST, W. 110  
ESCOBAR, L.K. 111  
ESLER, A.E. 112  
EVANS, G.C. 113  
EVANS, T. 495  
EVENARI, M. 192  
EVENSON, J.P. 491  
EVERINGHAM, J.M. 526  
EXPERT PANEL ON PROJECT N° 1 441

FARR, W.A. 152  
FARRELL, C.A. 506  
FEITOSA, L.R. 442  
FENCHEL, T. 031  
FERRAZ, M.H.A. 410  
FERRI, M.G. 413, 522  
FFOLLIOT, P.F. 523  
FINDEISOVA, M. 401  
FISHER, D.W. 052, 557  
FISHER, S.G. 238, 457  
FITTER, A.H. 524  
FLORENCE, R.G. 525  
FOGEL, R. 115  
FOINT, T.C. 526  
FORBES, H.A. 527  
FORD, E.D. 116  
FORGIE, C.D. 117  
FOSTER, C. 205  
FOSTER, R.B. 147  
FRANKLIN, J.F. 118  
FRANZIE, O. 119  
FREE, W.J. 592  
FRENCH, N.R. 120

FRENTRESS, C.D. 528  
FRESON, R. 121  
FRIEMANN, E.I. 122  
FRIEND, J. 356  
FRYE, R.G. 528  
FUGGLE, R.F. 168  
FUHREMANN, T.W. 217

GALLAIS, A. 181  
GALLUN, R.L. 123  
GANJU, J. 073  
GARDNER, W.R. 124  
GARRETT, A.R. 125  
GARRISON, G.A. 602  
GARTON, E.O. 526  
GERLOFF, E.D. 529  
GETAHUN, A. 129  
GIBSON, G.E. 444  
GIESEL, J.T. 129  
GIFFORD, G.F. 130, 438, 494  
GIFFORD, J.R. 531, 576  
GILBERT, F.F. 383, 384



GILBERT, R.D. 338  
GILL, A.M. 532  
GILL, D. 533  
GJESSING, E.T. 480  
GLIWICZ, Z.M. 131  
GODFREY, M.M. 132  
GODFREY, P.J. 132  
GOFFINET, G. 121  
GATES, C.T. 126  
GOKSOYR, J. 133  
GOLDSTEIN, M. 141  
GOLDSTEIN, R.A. 357  
GOLFARI, F.B. 134  
GOLLEY, F.B. 135, 136  
GÓMEZ-POMPA, A. 137  
GONZALEZ BERNALDEZ, F. 093  
GOODALL, D.W. 139  
GOODMAN, E.D. 049  
GORNY, M. 445  
GORRIN, A. 370  
GRANT, W.E. 120  
GRAY, A.J. 139  
GREENWOOD, B. 211  
GREGOIRE, A. 140

GRELLER, A.M. 141  
GRIGAL, D.F. 142  
GRINDELAND, R. 593  
GRIZZARD, T. 159  
GRUNOW, J.O. 143  
GUEST, R.T. 565  
GUILLAUMET, J.L. 144  
GUITJENS, J.C. 568  
GUITTET, J. 145  
GUTHRIE, W.D. 593  
GUZDER, S. 411  
GUZIKOWA, M. 146  
GWALTNEY, J.R. 189

HADLEY, H. 058  
HAINES, B. 147  
HAMBLLI, J. 515  
HAMILTON, H. 534  
HANSEN, R.A. 148  
HANSEN, R.M. 306  
HANSSON, L. 149  
HARDMAN, R. 535

HARPER, K.T. 150  
HARPER, L.A. 622  
HARR, R.D. 151  
HARRIS, A.S. 152  
HARRIS, F.A. 483  
HARRIS, J.A. 536  
HARRIS, P. 537  
HARRIS, R.W. 602  
HARRIS, W.F. 159, 334  
HAUSER, E.W. 621  
HAYDEN, D. 514  
HAYDEN, B.P. 598  
HAYON, J.C. 307  
HEADY, E.O. 446  
HEAL, O.W. 153  
HEATHCOTE, W.R. 154  
HEINRICH, B. 155  
HEINRICH, Z. 156  
HEITHAUS, E.R. 157  
HELILLO, F.M. 053  
HELLIWELL, D.R. 158  
HENDERSON, G.S. 159  
HENDREY, G.R. 480

HENRIKSEN, A. 480  
HENRY, J.D. 160  
HENRY, R. 161  
HERBST, S.N. 162  
HERMANN, R.K. 347  
HERRERA, R. 163  
HEUVELDOP, J. 493  
HEWSON, R. 538  
HEYWOOD, J. 514  
RICE, R.W. 306  
HILER, E.A. 482  
HINNERI, S. 164  
HIRATA, H. 447  
HOCKING, D. 165  
HOCKING, M.B. 165  
HOFFMAN, G.F. 166, 167  
HOLLAND, P.G. 168  
HOLMES, R.T. 169  
HOLTON JUNIOR, B. 526  
HONORE, E.N. 506  
HOPHINSON JUNIOR, C.S. 174  
HORMBECK, J.W. 449  
HUS, E. -L. 452

HOVE, C.W. 450  
HOWELL, L.M. 302  
HOYOS, L.S. 111  
HUFFAKER, C.B. 171  
HUGHES, R.E. 172  
HUNSTSMAN, S.A. 415  
HUNTER, P.E. 173  
HURTUBIA, J. 174

IDSO, S.B. 175  
IGBOZURIKE, M.O. 176  
IMAGAKI, H. 177  
INES, R.R. 106

INTERNATIONAL CONGRESS OF ECOLOGY, I., Hague, 1974.  
178

IRWIN, H.S. 107  
ISENSEE, A.R. 351  
IWAKI, H. 179

JACKSON, R.H. 539

JACOBS, M. 100  
JACQUARD, P. 181  
JAKOBI, H. 182  
JAMESON, D.A. 540  
JANZEN, D.H. 184, 541, 542, 543, 444  
JANTICK, J. 183  
JEANSON, C.Y. 185  
JENKIN, R.N. 186  
JENKINS, J.N. 545  
JOHANNESSEN, H. 480  
JOHN, D.M. 187  
JOHNSON, D.A. 188  
JOHNSON, D.W. 439  
JOHNSON, H.E. 148  
JOHNSON, N.M. 228, 229, 557  
JOHNSON, R.C. 189  
JORDAN, C.F. 163, 190  
JOUBERT, D.M. 546

KALLIO, P. 373  
KARENLAMPI, L. 366  
KAPPEN, L. 191  
KARENLAMPI, L. 192

KARNOSKY, D.F. 193  
KAWECKA, B. 194  
KAZANO, H. 395, 547  
KEARNEY, P.C. 351  
KEASTER, A.J. 340  
KEEN, N.T. 195  
KELLEY, J.C. 415  
HELLMAN, M. 196  
KEMP, R.H. 610  
KENNAMER, J.E. 189  
KERIK, J. 045  
KERR, P.C. 394  
KERSHAV, K.A. 197  
KERSHAW, K.A. 311  
KESTEMONT, P. 198  
KIMBER, P.C. 500  
KINAKI, P.D.S. 448  
KING, L.D. 548  
KING, P.D. 549  
KINZER, R.E. 339  
KHAN, S.U. 199  
KJELVIK, S. 200  
KJELVIR, S. 425  
KLATZMANN, J. 550  
KLEIN, D.A. 201

KLERKOWSKI JUNIOR, E.J. 451

KLINGE, H. 066, 163

KLUETER, H.H. 203

KLUM, J.A. 551, 593

KNOERR, K.R. 362

KOCHEV, K. 202

KOLB, H.H. 538

KRANSINSKI, Z. 055

KRANZ, J. 552

KRAUSE, W. 553

KRIZER, D.T. 203

KRUTCHKOFF, R.G. 302

KUMAR, H.D. 463

KWIETNIAK, R.T. 565

LACRAMPE, J.J. 204

LAMB, D. 525, 554

LANCE, G.N. 143

LANGE, O.L. 192

LANGENHEIM, J.H. 205

LANGSTON, D.T. 505, 618



LAROCHE, R.C. 259  
LARSEN, P.O. 335  
LATOCHA, E. 146  
LAVIGNE, R.J. 342  
LAVREY, J.D. 206  
LAWSON, G.W. 187  
LEAFE, E.L. 207  
LEDGARD, H.J. 208  
LEDGER, D.C. 209  
LEE, A.H. 452  
LEE, B.J. 210  
LEE, J.A. 211  
LEE, R. 212  
LEENTVAAR, P. 555  
LEFEVRE, C. 215  
LEGOVIC, T. 214  
LEMÉE, G. 215, 216  
LENOIR, A. 178  
LEONARD, R.A. 622  
LIANG, T.T. 221  
LICHTENSTEIN, E.P. 217  
LIEBHARDT, W.C. 556  
LIETH, H. 218 219 220  
LIGHTENSTEIN, E.P. 221

LIKENS, G.E. 051, 052, 053, 054, 222, 223, 224, 225,  
226, 227, 228, 449, 557

LINDQUIST, R.K. 550

LIPKIN, Y. 229

LISBOA, P.L.<sup>5</sup> 230

LITAV, M. 231

LOBATO, J.F.P. 597

LOFFLER, H. 454

LONGWORTH, J.W. 491

LOOMAN, J. 233

LOOMIS, R.S. 559

LORENZ, R.J. 591

LOZANO-CONTRERAS, G. 350

LU, P.-Y. 452

LUBKE, R.A. 234

LUGO, A. 235, 236

LUNDBERG, B. 372

LUPTON, F.G.H. 560

LUTMAN, J. 172

LUTOMSKI, J. 455

McCALLA, T.M. 456

McCONNEN, R.J. 353  
McCUNE, D.L. 592  
MacDONALD, K.B. 237  
McDOWELL, W.H. 238, 457  
MACE JUNIOR, A.C. 027  
MacFADYEN, A. 239  
McGINNIS, J.T. ed. 135  
MACKAY, A.G. 561, 562  
McKELLAR JUNIOR, H.M. 240  
MacKINNON, J.C. 563  
McLAUGHLIN, R.E. 483  
McLEAN, A. 564  
MacLEAN, C.D. 241  
MacLEAN, D.A. 242  
MacLEAN, S.F. 153  
McMILLAL, C. 243, 244  
McMILLIAN, W.V. 628  
McNAUGHTON, S.J. 245  
McQUEEN, I. 061  
McROY, C.P. 246  
MADGWICK, H.A.I. 247  
MADSEN, N.H.S. 248  
MAESTRINI, S.Y. 489  
MAHANNAH, C.N. 568

MAHESHWARI, J.K. 249  
MALAISSE, F. 121  
MALL, L.P. 250, 363  
MANKIN, J.B. 357  
MANN, G. 251  
MARCUS, L. 141  
MARGALEF, R. 252  
MARGARIS, N.S. 253  
MARSH JUNIOR, J.A. 254  
MARSHALL, E.J.P. 354  
MARTEL, Y.A. 255  
MARTIN, C.W. 256  
MARTINOT-LAGARDE, P. 257  
MARTUSEVICZ, L. 605  
MASON, H.C. 565  
MATSUMOTO, T. 258  
MATTOS, C.C.L.V. de 259  
MATTOS, M.D.L.V. de 259  
MATTSON, W.J. 260  
MAY, M.S. 261  
MAZA, B.G. 477  
MEDICA, P.A. 477  
MEDINA, E. ed. 136, 163  
MEDWECKA-KORNAS, A. 262

MEGGERS, B.J. 263  
MEIDEN, H.A. van der 264  
MELO, L.A.S. 566  
MELVILLE, A.R. 567  
MERCER, C.F. 549  
MERCER, I. 458  
METCALF, R.L. 452  
MEYER, E.R. 265  
MILKOWSKI, I. 055  
MILLER, E.E. 012  
MILLER, G.R. 266  
MILLER, P.C. 267  
MILLER, R.F. 061  
MILLER, W.V. 568  
MISRA, R. 263  
MITSCH, V.J. 569  
MOIR, W.H. 104  
MOLISE, E.M. 201  
MOLL, E.J. 459  
MONK, C.D. 394  
MONTEITH, J.L. 269  
MONTERRAT-RECORDER, P. 570  
MOONEY, H.A. 071, 094, 267  
MOORE, R.W. 423

MORAES, E. de 566  
MORAT, P. 144  
MORLEY, J.V. 496  
MORRISON, R.H. 339  
MOT, G.O. 271  
MOWRY, F.L. 362  
MUC, M. 272  
MUIRHEAD, W. 126  
MULLER, R.H. 273  
MULLIN, L.J. 030  
MULROY, T.W. 274  
MUNGOMERY, V.E. 601  
MUNIZ, I.P. 480  
MUNN, L.C. 275  
MYBURGH, A.C. 243  
MYERSCOUGH, P.J. 359

NABHAN, G.P. 276  
NAGARAJAN, S. 277  
NAKANE, K. 278  
NASCIMENTO, J.C. 205  
NAVEH, Z. 572

NELSON, J.F. 279  
NESOM, G.L. 280  
NEWCOMB, E.H. 281  
NEW JERSEY 324  
NEWBOULD, P.J. 116  
NEWMAN, J.C. 573  
NICHOLLS, K.H. 283  
NICHOLS, D.W. 282  
NICHOLSON, E.M. 574  
NICOL, K.J. 446  
NIELSEN, G.A. 275  
NIENHUIS, P.H. 284  
NIESWAND, G.H. 499  
NILSON, A. 285  
NILSON, T. 286  
NOLLER, C.H. 183  
NORMAN, P.A. 487  
NORRIS, L.A. 492  
NORTON, G.A. 413  
NOY-HEIR, I. 287  
NWOKE, F.I.O. 288

JCAMPO, R. 122  
O'CONNOR, B.P. 561  
O'DEEN, W.A. 077  
ODUM, E.P. 289  
OHMANN, L.F. 330  
OKO, B. 006  
OKONKWO, S.H.C. 288  
OLAWOYE, O.O. 575  
OLECHOWICZ, E. 290  
OLIVER, B.F. 531, 576  
OLSON, J.S. 291, 333, 577  
OLSON, H.F. 577  
OLSZOWSKI, J. 292  
O'NEIL, R.V. 333, 334, 357  
OHISHI, H. 293  
ORIAN, G. 294  
ORR, D.V. 450  
ORSHAN, G. 326  
OSLER, R. 295  
O'SULLIVAN, P.E. 296  
OTTERMAN, J. 297  
OVERTON, W. 347



PAHLSSON, L. 298  
PAIVANEN, J. 299  
PAJACZKOWSKI, J. 018  
PALMER, F. 300  
PANCER-KOTEJOWA, E. 146  
PANCHOLY, S.K. 509  
PANDEYA, S.S. 301  
PANZER, K.F. 493  
PARKER, B.C. 302  
PARKINSON, J.A. 303  
PARRISH, J.A.D. 304  
PASSORE, D. 578  
PATON, D.R. 579  
PAUL, P. 145  
PAYTON, I.J. 305  
PEARSON, C.J. 500  
PEDEN, D.G. 306  
PELT, J.H. 307  
PESENKO, YU. A. 300  
PETERKEN, G.F. 460, 461  
PETERS, W.L. 309  
PETERSEN, R.C. 049

PETHERAM, R.J. 581  
PETRIDES, G.A. 310  
PETROPOULOS, G.A. 535  
PEYRIERAS, A. 144  
PHILLIPS, J. 582  
PICKARD, J. 583  
PIERCE, R.S. 052, 228, 557  
PILLSBURY, R.D. 415-  
PIERCE, W.G. 311  
POISSONET, P. 181  
POLAKOWSKI, B. 312  
POLUNIN, H. 313  
PORTER, K.G. 315  
POTTINGER, R.P. 316, 423  
POTTS, G.R. 584  
POULTON, C.E. 317  
POWELL, C.C. 590  
POWELL, J. 318  
POWER, J.F. 319  
PRANCE, G.T. 011, 320  
PREACHER, J.W. 189  
PRENTKI, R.T. 031  
PRICE, D.W. 321  
PRICE, J.D. 440  
PUGH, T.D. 281

QUEZEL, P. 323  
QUINN, J.A. 324

RABB, R.L. 505  
RABINOVICH, J. 325  
RABINOVICH-VIN, A. 326  
RADCLIFF, L.B. 506  
RADWAN, M.A. 327  
RAGAB, M.T.H. 462  
RAI, B. 403  
RAMAN, S.S. 328  
RANA, B.C. 463  
RATKOWSKY, A.V. 329  
RATKOWSKY, D.A. 329  
READ, D.J. 385  
REAM, R.R. 330  
REDFERN, M. 074  
REEVES, H.C. 597  
REICE, S.R. 049  
REICHLE, D.E. 332, 333, 334

REIDEL, R.H. 335  
REJOWSKI, A. 312  
REYNOLDS, K.C. 588  
RHYKERD, C.L. 183  
RIBEIRO, H. de N.G. 336, 340  
RICE, E.L. 500  
RICHARDSON, C.J. 337  
RICKARD, W.H. 338  
RIDGWAY, R.L. 339  
RIEDEL, R.M. 590  
ROGLER, G.A. 591  
RILEY, T.J. 340  
ROBERTS, B.H. 162  
ROCHE, L. 302  
RODRIGUES, M.A. 320  
ROGERS, C.D. 341  
ROGERS, L.E. 342, 603  
ROGERS, R.D. 464  
ROMERO GARCIA, A. 465  
ROSENBERG, E. 297  
ROUSE, W.R. 343  
RUGGERS, L.A. 548  
ROWE, G.R. 562  
RUNDELL, P.W. 274

RUPPEL, R.F. 344  
RUSH, D. 072  
RUSSEL, D.A. 592  
RUSSELL, G. 345  
RUSSELL, W.A. 593  
RUST, D.J. 249  
RYAN, D.E. 346  
RYDÉN, B.E. 366  
RYTELEVSKI, J. 312

SAHU, A.K. 073  
SAIN, P. 504  
SALLES FILHO, M. 410  
SAMUEL, D.E. 212  
SANTANTONIO, D. 347  
SANTOS, A. dos 336  
SARMIENTO, G. 360  
SATOO, T. 349, 505  
SCHAFER, J.F. 599  
SCHLATTER, J.E. 407  
SCHNETTER, R. 350  
SCHOENEWEISS, D.F. 596

SCHOLL, J.H. 597  
SCHROEDER, P.M. 598  
SCHULTZ, R.O. 526  
**SCHUTH, C.K. 351, 352**  
SCHULZ, K.K. 217  
SCHULZ, K.R. **221**  
SCHULZE, E.D. 192  
SCHWEITZER, D.L. 353  
SCIFRES, C.J. 466  
SCOTT, R. 139  
SCOTTER, C.N.G. 354  
SCOTTO LA MASSESE, C. 033  
SEIGUE, A. 355  
SELIGA, T.A. 096  
SHAVER, T.N. 600  
SHIMONY, C. 356  
SHORTER, R. 601  
SHUGART, H.H. 333, 334, 357  
SICCAMA, T.G. 054  
SICINSKI, J.T. 358  
SIDDIQI, N.Y. 359  
SIEGAL, B.Z. **360**  
SIEGEL, S.M. **360**  
SIKOROWSKI, P.P. 483

SILVA, H.G.B. da 410  
SILVA, J. 361  
SILVA, M.F. da 320  
SIMMONS, I.G. 467, 468  
SINCLAIR, T.R. 362  
SINGER, M.T. 400  
SINGH, J.S. 014, 082, 268  
SINGH, K.P. 268  
SINGH, H. 363  
SINGH, R. 471  
SINGH, V.P. 364  
SINGLEY, H.E. 499  
SINHA, R.H. 365  
SKARTVEIT, A. 366  
SKOVLIN, J.H. 602  
SLACK, H.C. 412  
SLANKIS, V. 367  
SMET, D. de 102  
SMITH, D.W. 384  
SMITH, F.E. 368  
SMITH, F.F. 565  
SMITH, F.R. 234  
SMITH, H.D. 282  
SMITH, R.F. 369, 370  
SMITH, R.I.L. 371

SMITH, R.V. 444  
SMITH, W.H. 469  
SMOLIK, J.D. 603  
SNAYDON, R.W. 109  
SNEDAKER, S.C. 236  
SOEMARWOTO, O. 604  
SOLARZ, J. 605  
SONESSON, M. 164, 372, 373  
SOSSAINT, P. 374  
SOUCHON, C. 606  
SPLINTER, W.E. 166, 167  
SPRINGETT, J.A. 607  
SRIVASTAVA, A.K. 471  
STACHURSKI, A. 376, 377, 378, 379  
STAIRS, G.R. 191  
STANHILL, G. 380, 608, 609  
STEINER, K. 381  
STERN, K. 382  
STEYN, D.G. 168  
STINNER, R.E. 585  
STOCHER, M. 383, 384  
STOWERS, K.L. 492  
STRIBLEY, D.P. 385  
STRICKLER, G.S. 602  
STUBBLEBINE, W. 205



STUCKEY, R.E. 386, 586

STURGES, F.W. 169

SUSMEL, L. 387

SUTTON, R.A. 487

SUZUKI, M. 472

SWAN, J.M.A. 160

SWANK, W.T. 394

SWANSON, E.R. 293

SYNNOTT, T.J. 610

SZWARCBAUM, I. 388

TALLIS, J.H. 389

TEAL, J.M. 390

TEAS, H.J. 391

TEIXEIRA, L.B. 566

TENORE, K.R. 518

TERRELL, E.E. 100

THAKKAR, K.H. 073

THIELE-WITTING, H.C. 611

THOMPSON, J.R. 392

THOMSON, V.R. 473

THONON, P. 393

THONSON, A.G. 172  
THORUD, D.B. 523  
TIMMER, L.W. 612  
TODD, R.L. 394  
TODD JUNIOR, D.E. 159  
TOMIZAWA, C. 395, 547  
TORRE, J.R. de la 613  
TOWNSEND, G.H. 396  
TRACZYK, T. 202  
TRAHAN, G.B. 531  
TREIBER, M. 280  
TRENBATH, R.B. 397  
TRICART, J. 398  
TROI DEVAUX, L. 399  
TROUVAT, A. 131  
TIESZEN, L.L. 188  
TSUGE, S. 547  
TUBBS, C.R. 474, 614  
TURNBULL, J.W. 621, 622  
TURNER, F.B. 477  
TURNER, J. 400  
TURNER, F.C. 440

ULEHLOVA, B. 401  
UNGAR, I.A. 402  
UPADHYAY, R.S. 403  
URIVE DE C., A. 111  
URAN, A. 111  
UTKIN, A.I. 404

VALE, T.R. 405  
VALGARDSON, D.R. 615  
VALIELA, I. 390  
VAN BAVEL, C.H.M. 432  
VAN CLEVE, K. 406  
VAN DYNE, G.M. 306  
VAN SICKLE, J.A. 049  
VARTHA, E.M. 616  
'VEBLEN, T.T. 407  
VELASCO, F. 408  
VESEY-FITZGERALD, D. 409  
VEUM, A.K. 164  
VICKERMAN, G.P. 584

VISCONTI, A.S. 410  
VISHNU-MITRE 411  
VITT, D.H. 412  
VOLLMER, A.T. 477

WADE, J.C. 446  
WADE, P.M. 354  
WAISEL, Y. 297  
WALKER, B.H. 413, 617  
WALKER, P.J. 414  
WALKER, S.H. 186  
WALSH, J.J. 415  
WALTER, H. 416  
WALTON, D.W.H. 371, 417  
MARCHOLINSKA, A.U. 413  
WARING, R.H. 118  
WARREN, C.G. 077  
WATSON, A. 266  
WATSON, J.N.P. 419  
WATSON, T.F. 505, 618  
WEBBER, B.D. 420  
WEBBER, L.R. 548

WEETMAN, G.E. 421  
WEICHERT, A.T. 064  
WEIN, R.W. 241, 619  
WEIRES, R.V. 586  
WEISS, H. 422  
WELLENSTEIN, G. 478  
WELLS, D.A. 624  
WELLS, T.C.E. 624  
WELSH, R.D. 423  
WEST, N.E. 498  
WESTFALL, D.G. 440  
WHICKER, F.W. 424  
WHITE, E.H. 084  
WHITE JUNIOR, A.W. 621, 622  
WHITEHEAD, D.C. 620  
WHITFIELD, C.J. 062  
WHITLEDGE, T.E. 415  
WHITNEY, D.E. 430  
WHITTAKER, R.H. 054  
WIDSTROM, N.W. 628  
WIELGOLASKI, F.E. 373, 425, 623  
WILHELM, S. 426  
WILLIAMS, D.G. 536  
WILLIAMS, O.B. 624

WILLIAMS, P.J. 072  
WILLIAMS, W. 625  
WILSON, G.J. 626  
WILSON, F. 171  
WILSON, G.L.<sup>s</sup> 041  
WINCKEL, A. van 479  
WINFIELD, A.L. 627  
WIRTH, W.V. 565  
WISEMAN, B.R. 628  
WITKAMP, H. 021  
WOJEWODA, W. 156  
WOODDELL, S.R.J. 427  
WOODMAN, H.J. 629  
WOODMANSLEE, R.G. 428  
WOODWELL, G.H. 015, 429, 430  
WOOLSON, E.A. 351  
WORMELL, P. 431  
WRIGHT, R.F. 480  
WRIGHT JUNIOR, H.E. 630

YAMATO, Y. 472  
YOUNOS, H.C. 307

ZARZYCKI, K. 146  
ZAVITKOVSKI, J. 432  
ZIMKA, J.R. 377,378, 379, 433  
ZIMMER, J.O. 049  
ZINKE, P.J. 434

- Agricultura 444, 527, 609, 621
  - Desenvolvimento 186
  - Fenologia\* 623
  - Manejo 186
  - Métodos 504
  - Tropical 176
- Agroecossistema 175, 426
  - Análise 030
  - Tropical 541, 542, 543, 544
- Agroquímica 466
- Agrostis stolonifera 139
- Água 222
  - Irrigação 072
  - Medida Potencial 166, 167
  - Nitrogênio 348
  - Poluição 072
  - Qualidade 072
- Algas 009, 122, 253, 254, 284, 453, 463, 489
  - Comunidade 194
  - Marinhas 187
- Algodão 057, 483, 491
- Alfafa 344, 586



Aloe ferox  
  Habitat 168  
Altitude 230  
Análise 005  
  Ecossistema 133  
Andropogon-Paspalum 064  
Animal  
  Comunidade 091  
  Habitat 313  
  Nutrição 183  
Antartica 122  
Antibiótico  
  Fatores 600  
Área Foliar 253, 379  
Armeria maritima 213  
Arroz 295, 440, 452, 531, 576, 594  
Artropodos 005  
Árvores  
  Madreira 109  
Ar  
  Poluição 165  
Atriplex  
  Nummularia 126  
  Vesicaria 126

Bacteria 001, 031, 253  
Batata 356  
Betula pendula 198  
Betula pubescens 372  
Bioelementos 216  
Biofísica 119  
Biogeografía 042  
Biogeoquímica 034  
Biología 218  
    Equilibrio 233  
    Floral 060  
    Material 221  
Biomassa 116, 188, 192, 200, 242, 247, 253, 282, 328,  
    341, 347, 406, 410, 420, 432  
    Energía 363  
    Tropico 268  
Bioquímica 035, 551, 600  
Bison bison 306  
  
Cacao 519

Cálcio 159, 215, 229

Campina

- Amazônia 060, 230
- Ecologia 059
- Vegetação 059

Carbono 021, 395, 401

- Metabolismo 333

Casa de vegetação 558

Cerial 584

Cerrado 522

Choristoneura pinus 260

Chã 112

Chuva 554, 621

- Ácida 223, 439

Citrus 487

- Nematodes 612

Clima 092, 175, 259, 294, 350, 366, 374, 497

Climatologia 144

Cobre 463

Composição química 327

Comunidades 030

Conservação 574

Controle

- Biológico 171, 184

Químico 422, 506  
Cultura 179  
Competição 615  
Peste 339  
Rotação 456, 575

Decomposição 133  
Dactylorhiza praetermissa 211  
Degratação biológica 479  
Desflorestamento 225  
Desmatamento 437, 443  
Dióxido de carbono  
Troca 207  
Distribuição geográfica 060  
Drenagem 472  
Sistema 354

Ecologia 059, 073, 325, 326, 485, 522, 533, 536, 585  
Ecofisiologia 463  
Energia 034, 406, 609

- Princípios 334
- Eschweilera odora 320
- Espécies
- Lenhosas 011
  - Florestais 011
- Estrutura 176
- Eucaliptos 351
- Evapotranspiração 380, 392
- 
- Fagus grandifolia 206
- Fatores edáficos 145, 350
- Fauna 097, 144, 500
- Fazenda
- Conservação 629
- Fenologia 060, 155
- Fertilização 351, 591, 597
- Fertilizantes 156, 292, 390
- Festuca rubra 139
- Fibras 286
- Flora 097, 144, 259, 307, 500
- Floresta 002, 003, 012, 016, 019, 021, 027, 030, 036,  
084, 096, 097, 102, 104, 121, 147, 148, 149, 151,

152, 159, 179, 193, 210, 212, 216, 225, 228, 241,  
247, 256, 257, 258, 264, 273, 275, 301, 323, 331,  
333, 347, 348, 355, 357, 372, 375, 377, 378, 379,  
382, 387, 399, 403, 404, 421, 431, 432, 433, 439,  
442, 445, 449, 454, 461, 478, 486, 492, 493, 500,  
503, 526, 564, 577, 595, 538, 557, 574, 575, 607,  
630

Amazônia 106

Análise 332

Chuva 008, 443, 554

Tropical 119

Exatidão 119

Ecossistema 046, 051, 052, 053, 055

Inundáveis 005

Mangrove 448

Nitrogênio 053

Pinho 146, 156, 292, 392, 525

Recursos 353

Solos 279, 321

Temperatura 118, 332, 349, 380

Tropical 066, 184, 263, 428, 605,

Inundação 055

Folha

Decomposição 210

Forrage 516  
Fosfato 463  
Fósforo 021, 034, 159, 395

    Ciclo 031

Fotografias aéreas

    Interpretação 370

Fotossíntese 191

Fucus distichus 345

Fumigação 479

Função 176

Fungo 253, 386, 410

Gado 494, 501, 624

    Pastagens 602, 603

Gastrópodos 005

Genética 213, 381, 382, 451

Genotipo 601

Geologia

    Características 331

Geomorfologia 144

Geoquímica 185

Glycine max 622

Gramma 014, 015

Habitat 060, 115, 564

Halophytes 289

Hammada scopária 191

Herbicida 153, 446, 472, 557

Indigofera cordifolia 038

Insetos 005, 316, 339, 388, 393, 537

Inseticidas 487, 510, 549

Instrumento

Eletronico 007

Inventário florestal 320

Irrigação 072, 276, 450, 482, 521, 539, 568

Julbernadia globifora 109

Larix laricina 161



Lepidoptera 037, 240, 260

Leptospermum 112

Lolium multiflorum 616

Lolium perenne 524

Madeiras 160

Magnésio 159, 215, 229

Manejo 097, 152, 176, 305, 309, 497, 508, 525, 528,

532, 534, 545, 572, 578, 581, 597, 614, 616, 617

Peste 585

Terras 573

Mangrove 043, 069, 111, 236, 391, 411, 448

Materia Orgânica 179, 238, 374, 457

Produção 050, 368

Medicago sativa 616

Meio ambiente 312, 314, 316, 512, 523, 526, 550, 580,

597, 601

Mercurio 464

Microbiologia 133, 201

Microbios 021

Microclima 086, 298, 336

Microecologia

- Solos 135
- Microorganismo 077, 377, 403, 456
- Microscopia 286
- Milho 221, 340, 561, 562, 556, 593, 628
- Mineralização 319
- 
- Nematode 627
- Nitrato 394
- Nitrificação 589
- Nitrogênio 077, 021, 034, 053, 159, 327, 395, 401
- Nutrientes 063, 228, 283, 299
- Ciclo de 058, 226
- Distribuição 400, 420
- Mineral 072
- 
- Orchidaceae 060
- 
- Palaeoclimatica 106

- Parasitas 339
- Parque Nacional da Tijuca 259
- Passaros 065, 260  
Comunidade 169
- Pastagem 007, 020, 063, 064, 074, 083, 120, 179, 180,  
181, 290, 298, 306, 310, 316, 318, 319, 342, 363,  
364., 401, 403, 405, 423, 428, 481, 494, 496, 498,  
517, 597, 616, 617, 623  
Comunidade 250  
Manejo 624  
Nutrientes 271  
Raiz 032
- Phytophthora infestans 356
- Phytoplankton 009, 302
- Pinheiro 352., 579  
Plantação 037
- Pinus banksiana 241
- Pinus radiata 525
- Pinus silvestris 286, 296, 372
- Planta 308  
Água 072, 315  
Comunidade 039, 045, 083, 091, 141, 142, 196, 246  
262, 272, 276, 396  
Distribuição geográfica 039

Doença 513, 599  
Fisiologia 041  
Insetos 600  
Nutrição 183  
Polinizador 157  
População 294  
Raiz 348  
Rotação 196  
Solo 072  
Sucessão 304, 396  
Polen 090  
    Análise 296  
    Germinação 191  
Polinizador 157  
    Abelha 308  
Poluentes 463  
Poluição 446  
Porthetria dispar 067  
Potássio 021, 034, 159, 215, 229  
Potencialidade agrícola 566  
Praia  
    Vegetação 237  
Predadores 339  
Produtividade Primária 219

Puccinellia maritima 139

## Química

Controle 562

## Radiação

Solar 168, 425

Tropicais 269

Recursos Naturais 097

Reflorestamento 149, 351

Regeneração Natural 414

Reserva Biológica INPA - SUFRAMA 011

## Resina

Folha 205

Saprolegniaceae 095

Savanas 121, 361, 413

Tropicais 106, 310

Scleronema micranthum 320  
Sementes 117, 279  
    População 294  
Sensor remoto 317  
Silvicultura 503, 610, 613  
Sistema  
    Planta-Solo 166, 169  
Soja 622  
Sodio 229  
Solanum tuberosum 356  
SO<sub>2</sub> 191  
Solo 006, 040, 070, 086, 089, 028, 151, 221, 239, 278,  
    279, 298, 309, 318, 343, 367, 434, 462, 464, 498,  
    594  
    Água 036, 440  
    Biota 081  
    Conservação 481, 508, 588  
    Fauna 005, 607  
    Fertilidade 164  
    Minerais 215  
    pH 206  
    Planta 217  
    Respiração 206  
    Temperatura 062, 273

- Zonificação 080
- Sorgo 628
- Temperatura 230, 297
- Tomate 558, 565
- Trópicos 048, 190, 436, 465
- Ecosistema 235
- Terras 219
- Úmido 309
- Unidade 230
- Vegetação 011, 023, 028, 089, 092, 115, 162, 204, 206,  
218, 230, 232, 237, 297, 298, 307, 312, 326, 374,  
383, 384, 343, 412, 502, 532, 580, 583, 598
- Amazônia 309
- Habitat 313
- Lenhosa 011

Manejo 523

Zinco 099, 463



# ÍNDICE GEOGRÁFICO

África 263, 310, 519, 617

Central 110

Do Sul 248, 251, 352, 413, 582

América do Sul 263

Argentina 423, 562

Austrália 244, 495, 500, 532, 607

Queensland 079, 491

Brasil

Amazonas 011

Manaus 320

Amazônia 005, 059, 060, 163, 205, 309, 335, 348,  
566

Paraná 182

Bulgária 202

Canadá 421

Quebec 255

Ontário 283, 311, 383, 384

Chile 267, 407

Colombia 350

Egito 608

Estados Unidos 101, 276, 375, 402, 405, 485, 578

Alabama 189

Alaska 010, 152, 188

Arizona 392, 523

California 004, 020, 022, 045, 241, 267, 415, 434

Colorado 057, 061, 342

Carolina do Norte 132, 280, 598

Georgia 210, 417

Michigan 260, 337, 344, 381

Minnessota 084, 142, 586

Missouri 340

Nevada 568

New Hampshire 256

New Mexico 104

Oregon 115

Utah 494, 498

West Virginia 212

Wisconsin 432

Europa 055, 262, 461

França 374, 391, 569

Holanda 284

Índia 038, 043, 249, 301, 403

Bombay 411

Inglaterra 158, 211, 266, 461

Israel 513

Itália 434

Japão 179, 595

Malásia 258

Mediterrâneo 022, 023, 024, 071, 094, 374, 572, 613

México 101, 265

Nigéria 006, 575

Nova Zelândia 112, 316

Porto Rico 147

Rodesia 030, 473

Scandinária 285

Surinam 048, 555

Suécia 149

Venezuela 106, 205, 369

# COMO UTILIZAR O BANCO DE BIBLIOGRAFIAS

**NOSSO CAPITAL  
CHAMA-SE BIBLIOGRAFIA.  
PARA FAZER SUAS RETIRADAS  
USE O FORMULÁRIO DE  
- SOLICITAÇÃO DE BIBLIOGRAFIAS -  
PEÇA-NOS, QUE O ENVIAREMOS.**

**SE TEM INTERESSE EM OBTER CÓPIAS DE  
ARTIGOS DE PERIÓDICOS, TESES, ETC,  
TEMOS O SERVIÇO DE  
- COMUTAÇÃO BIBLIOGRÁFICA -  
ESTAMOS PRONTOS PARA AJUDÁ-LO.  
UTILIZE OS NOSSOS SERVIÇOS**

PUBLICAÇÕES DO PROGRAMA  
DO  
BANCO DE BIBLIOGRAFIAS

- Bibliografia do Acre  
Bibliografia de Andropogon Gayanus Kunth  
Bibliografia do Aspargo  
Bibliografia Brasileira de Batatinha  
Bibliografia Brasileira de Búfalo  
Bibliografia Brasileira de Cevada (*Hordeum vulgare*)  
Bibliografia Brasileira do Figo, Maçã e Morango  
Bibliografia Brasileira de Juta  
Bibliografia Brasileira de Malva  
Bibliografia Brasileira de Mandioca (*Manihot esculenta Crantz*)  
Bibliografia Brasileira de Nematóides  
Bibliografia Brasileira de Ovinos  
Bibliografia Brasileira de Patologia de Sementes  
Bibliografia Brasileira de Pêssego e de Outras Frutas de Clima Temperado  
Bibliografia Brasileira de Sementes. Vol 1, 2, 3 e 4  
Bibliografia Brasileira Sobre Automação de Serviços Bibliotecários  
Bibliografia Brasileira Sobre Plantas Tóxicas na Alimentação Animal  
Bibliografia Brasileira de Trigo  
Bibliografia do Camarão. 2v  
Bibliografia de Castanha-do Brasil (*Bertholletia excelsa* H.B.K.)  
Bibliografia de Doenças de Suínos  
Bibliografia de Fertilidade de Solo e Nutrição de Seringueira.  
Bibliografia de Fisiologia de Seringueira.  
Bibliografia de Estatística  
Bibliografia de Floras e Obras de Referência Sobre Taxonomia Vegetal  
Bibliografia de Forrageiras  
Bibliografia Internacional de Biblioteconomia e Ciência da Informação  
Bibliografia Internacional de Beterraba Açucareira (*Beta vulgaris* L.). Tomo I e II  
Bibliografia Internacional do Cauçú  
Bibliografia Internacional de Cigarrinha das Pastagens (*Homoptera: Cercopidae*)  
Bibliografia Internacional do Côco (*Cocos nucifera* L.)  
Bibliografia Internacional de Colza (*Brassica campestris* L. e *Brassica napus* L.)  
Bibliografia Internacional de Cultura de Tecidos em Plantas Cultivadas  
Bibliografia Internacional de Joboba (*Simmondsia chinensis* (Link) Schneider)  
Bibliografia Internacional Sobre Armazenamento de Sementes.  
Bibliografia Internacional de Pragas do Algodoeiro *Gossypium Hirsutum* L.  
Bibliografia de Linfadenite Caseosa  
Bibliografia de Manejo e Conservação de Solos  
Bibliografia de Mecanização Agrícola, Tração Animal  
Bibliografia de Melhoramento de Seringueira  
Bibliografia de Nutrição de Caprinos e Ovinos  
Bibliografia de Pennisetum Purpureum Schumacher  
Bibliografia de Reprodução em Caprinos  
Bibliografia Sinalética do Babaçu  
Bibliografia Sinalética de Espécies Florestais Nativas  
Bibliografia Sinalética Mato-Grossense: Agropecuária, Recursos Naturais, Diagnósticos, Planejamento e Pesquisas.  
Bibliografia Sinalética Sobre Agricultura em Regiões Áridas e Semi-Áridas  
Bibliografia Sinalética Sobre Cultura do Algodão Arbóreo  
Bibliografia Sinalética Sobre a Cultura do Algodão Herbáceo (*Gossypium hirsutum* L.)  
Bibliografia Sinalética Sobre Culturas Consorciadas  
Bibliografia Sinalética Sobre Forrageiras de Regiões Semi-Áridas - Capim Buffel  
Bibliografia Sinalética Sobre a Cultura do Abacaxizeiro (*Ananas comosus* L.)  
Bibliografia Sobre Climatologia Agrícola das Áreas de Savanas: 1940 - 1950.  
Bibliografia Sobre Disseminação Seletiva de Informação: Fontes Para Pesquisa e Estudo  
Bibliografia Sobre Doenças do Milho  
Bibliografia Sobre Ecologia de Pastagens  
Bibliografia Sobre Ecologia Vegetal  
Bibliografia Sobre Industrialização de Frutas  
Bibliografia Sobre Industrialização de Olerícolas  
Bibliografia Sobre a Pequena Irrigação Não-Convencional no Trópico Semi-Árido  
Bibliografia Sobre Pimenta-do-Reino (*Piper nigrum* L.)  
Bibliografia Sobre Redação Técnico-Científica  
Bibliografia Sobre o Setor Primário Paulista  
Bibliografia Sobre Tamanho e Forma de Parcelas Experimentais  
Bibliografia do Sorgo Sacarino