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# Database on Ongoing Scientific Research

(1998/99)



*Compiled by*

**V. N. Perera  
R.M.W. Amaradasa**

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## FOREWORD

The Database on Ongoing Scientific Research in Sri Lanka (DBOSR) is published biannually by the National Science Foundation (NSF), successor to the Natural Resources Energy & Science Authority (NARESA).

The first attempt to gather information on ongoing research was in 1991. A database was created with this information. However this remained unpublished. The first Volume of the Directory was published in 1995 covering the information for 1993/94. The second Volume which was published in 1998 covered the information for the period 1995/97. The third Volume covers the period 1998/1999.

The information was gathered through a questionnaire sent to the Government Departments, Research Institutions, Universities and Private Institutions engaged in Scientific Research. Subsequent field visits were made to complete the data from institutions which had not responded. Micro CDS/ISIS software was used to develop the database.

We wish to update this database regularly in view of publishing this Directory as a reference tool for the scientific community and decision makers. As such, we welcome your comments and criticisms.

The data such as budget, objectives, project summary etc. are available in the database at the NSF, but only the basic information is included in this publication. The categorization of projects into subject fields is based on the objectives given by the investigators.

The information collected since 1991 will be made available online through the NSF home page in the near future.

<http://www.nsf.ac.lk>

M. Watson  
Director/NSF  
December 1999.

## ACKNOWLEDGMENT

We are thankful to the Researchers, Directors and Heads of the Departments/Universities /Research Institutions for their cooperation in sending the completed questionnaires, which were used in the preparation of this issue of the Data Base on Ongoing Scientific Research (DBOSR).

We are also thankful to Mr. Rohan Pathirage Scientific Officer, NSF who assisted in collecting the information, and to Mr. J.S.K. Weerawardena SLSTIC, NSF for the Technical support on computerization.

We also record our gratitudes to the Chairman Prof. K. Dahanayake and the Director Mr. M. Watson for their encouragement without which we would not have been able to undertaken this activity.

Last but not least our thanks are due to Ms. Hemamali Priyadarshani and Ms. Dilani Suriyarachchi the Data Entry Operators for their untiring efforts in building up the Data Base.

V.N. Perera  
R.M.W. Amaradasa

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## 1. AGRICULTURAL SCIENCES

### 1.1 Agricultural Biology

1. Attempts to purify, characterize and study the kinetics of the enzyme polyphenol oxidase (PPO) in the tea flush. (1993)

Herath, N.L., Liyanage, A.C. - TRI  
KEYWORDS: Enzymes;Tea;Quality Control;Beverages

2. Bud grafting and nurseries

Senavirathne, P. - RRI  
KEYWORDS: Heveas;Rubber Industry;Productivity

3. Continuation of Ryt/92 plant crop (1993)

Sivanathan, A. - SRI  
KEYWORDS: Sugarcane;Variety Generation

4. Cost Effective treatment system for skim serum (1997)

Senavirathne, G. - RRI  
KEYWORDS: Latex;Heveas

5. Development of latex timber clones (1997)

Attanayake, T. - RRI  
KEYWORDS: Latex;Timber;Heveas

6. Dry zone species (1992)

Bandara, G.D. - DF  
KEYWORDS: Plant Resources;Species Diversity;Land Reclamation

7. Earthworms in coconut soils and their role in sustaining soil fertility

Fernando, Priyanthi., Jayasundara, Fiona. - CRI, Wijekoon, Sumara. - UP  
KEYWORDS: Analeada ;Soil Fertility

8. Effect of different light levels on leaf growth of *Peuraria phoscoloides* and beans (1994)

Ranasinghe, C.S. - CRI  
KEYWORDS: Leaf Growth;Water Relations;Morphology

9. Establishment of biological effects of black tea consumption. (1999)

Amarakoon, A.M.T. - TRI  
KEYWORDS: Tea;Antioxidant;Health Sciences

10. Estimation of optimum lifespan for rubber

Samarappuli, I.N. - RRI  
KEYWORDS: Heveas;Rubber Industry;Economics

11. Evaluation of cardamom for low elevation adaptability (1990)

Herath, I.H.M.H.B., Gurusinghe, P.de.A., Ravindran, A. - DEA  
KEYWORDS: Spices;Hybridization

12. An evaluation of the DFFC integrated sericulture development pilot project. (1993)

Sooriyaarachchi, N.D. - PGIA  
KEYWORDS: Sericulture

13. Exploitation of trees affected by TDP (1997)

Nugawela, N. - RRI  
KEYWORDS: Tapping Methods;Heveas

14. Field performance of amputated polybagged seedlings. (1989)

Nainanayake, A., Jayasekera, C. - CRI  
KEYWORDS: Seedlings;Plant Growth

15. Genotype seasonal and age related variations in economic yield and gas(exec.parms)of mature rubber (1998)

Nugawela, A. - RRI  
KEYWORDS: Photosynthesis;Heveas; Productivity;Economics;Genotype

16. High density planting of rubber (1992)

Rodrigo, V.H.L. - RRI  
KEYWORDS: Hevea;Productivity

17. Induced mutations for the improvement of yield adaptability and quality of aromatic rice (1996)

Pathirana, R., Pathirana, R.N. - UR  
KEYWORDS: Mutations;Productivity;Rice

18. Live supports for pepper (1992)

Abeykoon, A.M.D. - DEA  
KEYWORDS: Spices;Productivity;Evaluation

19. Nitrogen fixing and non fixing interplant trial (1994)

Bandara, K.M.A. - DF  
KEYWORDS: Intercropping;Nitrogen Fixation

20. Production of bio-fertilizers using naturally occurring fungi and bacteria (1998)

Jayarathne, A.H.R. - RRI  
KEYWORDS: Fertilizers;Fungi;Bacteria

21. Rehabilitation low yielding coconut plantations (1995)  
Gunathilaka, H.A.J., Fernando, D.N.S. - CRI  
KEYWORDS: Fertilizers;Coconut Palms;Productivity;Root Formation;Pruning

22. Screening of clones  
Jayasinghe, C.K. - RRI  
KEYWORDS: Heveas;Plant Diseases;Disease Resistance

23. Screening and multiplication of VAM for incorporation at the time of planting tea in the field. (1999)  
Balasuriya, A., Pradeepa, N.H.L, Jayasundara, J.W.K.K - TRI  
KEYWORDS: Biological Control;Plant Diseases.

24. Seedling growth of four late-successional tree species in different light and soil-nutrients environments. (1996)  
Singhakumara, B.M.P. - USJ  
KEYWORDS: Seedling;Nutrients

25. Spice and beverage crop cultivation with live terrace in sloping lands (1993)  
Subasinghe, H.M.P.A. - DEA  
KEYWORDS: Soil Conservation;Mixed Farming;Intercropping;Spices;Crops

26. Spraying ethrel for clove harvesting. (1995)  
Palipane, J.B. - DEA  
KEYWORDS: Clove;Spices;Harvesting

27. Studies on pruning and training of coffee (1987)  
Abeykoon, A.M.D. - DEA  
KEYWORDS: Plantations;Pruning

28. Studies on spacing and cultural requirements of pepper (1993)  
Subasinghe, H.M.P.A. - DEA  
KEYWORDS: Soil Conservation; Productivity;Plant Growth;Cropping Systems;Spices

29. Studies on the use of straw as organic matter in rice culture with special reference to the soil microbiology and improvement of the quality of rice soils. (1998)  
Hirimburegama, W.K. - UC

KEYWORDS: Agricultural Products;Soil Properties

30. Study of the glycemic index of different varieties of rice in Sri Lanka (1997)  
Jiffry, M.T.M, P. - USJ, Fernando D. - UC, Hettiarachchi. - USJ  
KEYWORDS: Rice

31. Testing of proven foreign clones (1991)  
Attanayake, T. - RRI  
KEYWORDS: Heveas

32. Varietal evaluation of tomato, brinjal, capsicum and gourds for root-knot nematodes. (1993)  
Ekanayake, H.M.R.K. - HORDI  
KEYWORDS: Varietal Resistance; Vegetable Crops;Nematodes

33. Wet zone species establishment trial (1993)  
Tilakaratne, D. - DF  
KEYWORDS: Species Diversity;Tree Planting;Species Establishments

34. Young budding /brown budding performance field trials (1995)  
Senaviratne, W. - RRI  
KEYWORDS: Plant Growth

## 1.2 Agricultural Chemistry

35. Analytical services and techniques.  
Samarappuli, L. - RRI  
KEYWORDS: Soil Sciences;Plants; Fertilizers;Latex Analysis

36. Biological and Bio chemical treatment of rubber wood (1997)  
Warnakula, M.T. - RRI  
KEYWORDS: Wood;Heveas;Agricultural Economics

37. Effects of neem (Azadiracta indica) cake blending with two nitrogen fertilizers on leaching losses of nitrogen and fertilizer response in different soils of Sri Lanka. (1996)  
Gnanavelrajah, N., Kumaragamage, D., Nandasena, K.A. - PGIA  
KEYWORDS: Fertilizers;Soil Properties

38. Establishment of the relationship of chemical composition to

acceptability and renitance of tea clones to various tissues. (1999)  
Abeyasinghe, I.S.B. - TRI  
KEYWORDS: Chemical Control; Tea; Plant Diseases

39. Studies on the localized application of fertilizer in coconut (1990)

Tennakoon, N.A. - CRI  
KEYWORDS: Coconut Palms; Fertilizers

40. Identification of the changes of chemical composition through a pruning cycle and the effect on made tea quality. (1999)

Amarakoon, A.M.T. - TRI  
KEYWORDS: Tea Industry; Pruning; Tea Quality

41. Identifying and using semiochemicals in the tea plant for reducing shot Hole Borer damage. (1998)

Abeyasinghe, I.S.B. - TRI  
KEYWORDS: Tea; Disease Control; Volatility; Plant Diseases

42. Odour Control (1977)

Warnakula, M.T. - RRI  
KEYWORDS: Rubber Industry

43. Pesticides residue analysis in leafy vegetables (1997)

Wettasinghe, A. - HORDI  
KEYWORDS: Pesticides; Vegetables

44. Production of phytochemicals of anti-tumour, anti-leukemic and viral activities by cell cultures of *Ophiorrhiza mungos* L. (1996)

Ranaweera, S. S. - USJ  
KEYWORDS: Tissue Culture; Cancer; Plant Diseases; Phytochemistry

45. Utilization of Cucurbitaceae spp. for food Industry. (1997)

Goonerathne, J. - ITI  
KEYWORDS: Melon; Pumpkin; Phytochemistry; Cucurbitaceae

### 1.3 Agricultural Ecology

46. Developing a agro - forestry system for cardamom cultivation. (1990)

Herath, I.H.M.H.B., Gurusinghe, P.de.A. - DEA  
KEYWORDS: Spices; Agro Forestry

47. Ecological adaptability of pineapple varieties in relation to climate and edaphic parameters. (1995)

Heenkenda, H.M.S., Sangakkara, U.R., Peiris, B.C.N. - PGIA  
KEYWORDS: Fruits; Ecological Adaptability; Pineapples

48. Evaluation of clones for environmental variation.

Attanayake, T. - RRI  
KEYWORDS: Heveas; Agroecology

### 1.4 Agricultural Economics

49. Development of linkages between incentive and plucker productivity in estate sector. (1999)

Jayakody, J.A.A.M. - TRI  
KEYWORDS: Plucking; Productivity; Tea Plants

50. Economic analysis of processing of sugar and molasses. (1998)

Keerthipala, A.P. - SRI  
KEYWORDS: Sugarcane; Agricultural Economics

51. Economic evaluation of new sugarcane technologies and their dissemination.

Keerthipala, A.P. - SRI  
KEYWORDS: Sugarcane; Agricultural Economics; Evaluation

52. Economics of rubber wood production in Sri Lanka

Samarappuli, I.N. -  
KEYWORDS: Heveas; Economics; Rubber Industry

53. Effect of the age of the cinnamon shoots to develop rough bark condition and its severity (1998)

Jayasinghe, G.G. - DEA  
KEYWORDS: Spices; Plant Diseases

54. Estimation of Tea production costs at different elevations. (1999)

Jayakody, J.A.A.M. - TRI  
KEYWORDS: Tea; Productivity; Cost Estimation

55. Estimation of yield gaps of clonal tea from experiments fields to producers fields. (1999)

Jayakody, J.A.A.M. - TRI  
KEYWORDS: Tea Plants; Productivity

56. Factors affecting local consumption of rubber  
Herath, P.H.M.U. - RRI  
KEYWORDS: Heveas

57. Identification of appropriate labour use patterns to improve profitability in plantations. (1999)  
Jayakody, J.A.A.M. - TRI  
KEYWORDS: Labour Productivity

58. Impact of SAPTA/SAFTA on other Food Crop sector in Sri Lanka (1998)  
Weerahewa, J. - UP  
KEYWORDS: Food Crops

59. Intra and inter and regional variations of productivity and profitability of sugarcane farming (1998)  
Keerthipala, A.P. - SRI  
KEYWORDS: Sugarcane; Productivity

60. Labour economics in rubber sector  
Herath, P.H.M.U. - RRI  
KEYWORDS: Rubber Industry; Labour Economics

61. Nutrient recycling as a measure of fertilizer economy (1990)  
Samarappuli, L.N. - RRI  
KEYWORDS: Hevea; Soil Fertility; Nutrients

62. Production of improved planting material suited to different agro-ecological regions (1984)  
Peiris, R.R.A. - CRI  
KEYWORDS: Coconut Palms; Agroecology

63. Rubber Wood Saw Dust (1996)  
De Silva, K.G.K. - RRI  
KEYWORDS: Woods; Heveas

64. Seed production of hevea (1995)  
Senaviratna, P. - RRI  
KEYWORDS: Heveas; Plant Breeding

65. Slow release fertilizer membranes  
De Silva, K.G.K. - RRI  
KEYWORDS: Economics; Fertilizers

66. Stimulation (1997)  
Nugawela, A. - RRI  
KEYWORDS: Productivity; Rubber Tapping

67. Studies on the ripening and senescence of perishable commodities intended for the domestic and international markets. (1998)  
Wilson, Shanthi - ITI

KEYWORDS: Fruits; Plant Physiology; Plant Diseases

### 1.5 Agricultural Engineering

68. Cost-benefit analysis of mini hydro power systems in tea estates. (1999)

Jayakody, J.A.A.M. - TRI

KEYWORDS: Agricultural Economics; Hydropower Systems

69. Development of swinging lugs reversible cage wheels for small and medium power tractors (1997)

Alwis, P.L.A.G. - UR

KEYWORDS: Agricultural Machinery

70. Development of a two-wheel tractor driven raw rice mill. (1998)

Adhikarinayake, T.B. - NERD

KEYWORDS: Rice Mills; Agricultural Equipments

71. Design a suitable drip irrigation system for coconut plantations (1995)

Vidana Arachchi, L.P. - CRI

KEYWORDS: Coconut Palms; Water Requirement; Productivity; Moisture Conservation

72. Identifying optimum agrowell dimensions to sustainable irrigation in Anuradhapura District (1997)

De Silva, C.S. - OU

KEYWORDS: Agrowells; Agricultural Irrigation

73. Irrigation scheduling for critical drought periods to Pelawatta sugar catchment based on past rainfall data (1995)

Mikunthan, T., Gunasekera, K.G.A. - PGIA

KEYWORDS: Meteorological Statistics; Sugarcane

### 1.6 Agricultural Management

74. Comparative study of management at estate-small holder sector

Herath, P.H.M.U. - RRI

KEYWORDS: Intergrated Management

75. Development of cropping systems to increase cropping intensity under two village tanks in dry semi-dry zones in Sri Lanka. (1995)

Karunasena, K.G.J., Marambe, B.,  
Sangakkara, U.R. - PGIA  
KEYWORDS: Crop management

76. Development of suitable cropping  
systems to increase the productivity  
of coconut new/replantings in the dry  
zone. (1990)

Dassanayake, K.B., Liyanage, M.De.S.  
- CRI

KEYWORDS: Cropping Systems;Coconut  
Palms;Productivity

77. Expansion of rubber into marginal  
areas (1996)

Nugawela, A. - RRI

KEYWORDS: Heveas;Agricultural Land

78. Feasibility of growing rubber in  
drier areas.

Samarappuli, L. - RRI

KEYWORDS: Hevea;Agronomy

79. Growth of selected cereals as  
affected by ecological conditions and  
crop management in relation to  
morphology. (1995)

Hettiarachchi, H.A.K., Sangakkara,  
U.R., PGIA

KEYWORDS: Cereals;Crop Management;  
Morphology

80. Importation and quarantine of  
sugarcane varieties. (1998)

Jayarathne, D.L. - SRI

KEYWORDS: Plant Quarantine;  
Sugarcane;Plant Diseases;Pests

81. Modelling farmer behaviour at  
micro-level (1998)

Herath, P.H.M.U. - RRI

KEYWORDS: Heveas

82. Seed conservation and studies on  
effects of storage condition on seed  
viability (1997/1998)

Herath, L.G. - PGRC

KEYWORDS: Seed Conservation;Plant  
physiology;Genetics

### 1.7 Agricultural Methods

83. Adaptive research for rubber  
small holdings (1989)

Iqbal, S.M.M. - RRI

KEYWORDS: Adaptive Research;Heveas

84. Evaluation of different  
fertilizer application techniques on  
the yield of coconut (1995)

Tennakoon, A. - CRI

KEYWORDS: Fertilizers;Application  
Techniques;Coconut Palms;Productivity

85. Techniques to evaluate available  
P form ERP

Dissanayake, A. - RRI

KEYWORDS: Plant Nutrition

86. Utilization and management of  
leguminous trees in coconut lands  
(1995)

Fernando, D. Neville - CRI

KEYWORDS: Legumes;Fertilizers;Coconut  
Palms

### 1.8 Agricultural Technology

87. Assessment of the protein quality  
of soybean products (1994)

Selvaratnam, N. - PGIA

KEYWORDS: Food Products;Cereals;  
Quality Control

88. Evaluation of salt technology in  
upcountry wet zone tea plantations in  
Sri Lanka (1997)

De Costa, W.A.J.M., Mapa, R.B. - UP

KEYWORDS: Salt;Tea Plants

89. Rainguards (1995)

Nugawela, A. - RRI

KEYWORDS: Fungi;Fertilizers;Plant  
Diseases;Mycorrhizae

### 1.9 Agroclimatology

90. Analysis of rainfall in coconut  
growing areas (1996)

Peiris, T.S.G., Mathes, D.T. - CRI

KEYWORDS: Coconut Palms

91. The effect of raingard and  
recovery tapping on the yield and  
some related parameters (1997)

Nugawela, N. - RRI

KEYWORDS: Tapping Methods;  
Productivity;Heveas

92. Modelling of climatic factors on  
yield (1996)

Peiris, T.S.G., Thattil, R.O. - CRI

KEYWORDS: Climatology;Climatic  
Analysis

93. Studies on water balance of  
coconut under different soil  
landscapes, agro-climates and  
management practices (1992)

Vida na Arachchi, L.P. - CRI  
KEYWORDS: Water Balance;Coconut  
Palms;Root Absorption;Agroclimatic  
Conditions

### 1.10 Agronomy

94. Determination of N P K  
requirements of sugarcane varieties  
selected for different agroclimatic  
regions. (1995)  
Subasinghe, R. - SRI  
KEYWORDS: Fertilizers

95. Effect of different sources and  
rates of P on the performance of  
coconut seedlings (1991)  
Fernandopulle, M.N. - CRI  
KEYWORDS: Coconut Palms;Seedlings;  
Nutrients;Fertilizers;Plant Growth

96. Ethyl Vs. Ethyl super 946-a  
comparison of performance on Hevea  
brasiliensis (1997)  
Nugawela, N. - RRI  
KEYWORDS: Fertilizers;Heveas

97. Evaluation of different  
fertilizer application techniques on  
yield of coconut - axial feeding of  
coconut (1994)  
Fernandopulle, M.N. - CRI  
KEYWORDS: Coconut Palms;Fertilizers;  
Feeding

98. Evaluation of Gliricidia Loppings  
as a Source of Green Manure of Pepper  
(1997)  
Gunarathne, W.D.L. - DEA  
KEYWORDS: Spices;Fertilizers;Manure

99. Evaluation of sugarcane varieties  
SL 83-06, K 7130 and CO 775 on a  
physiological basis as affected by  
irrigation and nitrogen fertilizer  
application (1999)  
Bandara, D. - UP  
KEYWORDS: Sugarcane;Fertilizers

100. Fertilizers to nursery plants.  
(1989)  
Dharmakeerthi, S. - RRI  
KEYWORDS: Hevea;Budding Plants

101. Fertilizer requirement of new  
clones.  
Dharmakeerthi, S. - RRI  
KEYWORDS: Productivity;Hevea

102. Ground cover management and  
nutrient recycling. (1998)  
Samarappuli, L. - SRI  
KEYWORDS: Hevea;Soil Conservation

103. Investigation of P residual  
effect. (1998)  
Nagappan, M. - DEA  
KEYWORDS: Rock Phosphate;Fertilizers;  
Perennial Crops

104. Mulching-fertilizer studies on  
vanilla (1992)  
Nagappan, M., Heenkende, A.P. - DEA  
KEYWORDS: Spices;Fertilizers

105. Organic fertilizers. (1996)  
Samarappuli, L. - RRI  
KEYWORDS: Manure;Hevea;Soil Fertility

106. Responses of sugarcane to P  
fertilizer and evaluation of P status  
of sugarcane growing soils of  
Sri Lanka. (1998)  
Ubayasena, R.N.T.K. - SRI  
KEYWORDS: Fertilizers;Soil  
Properties;Sugarcane

107. Soil and foliar survey programme  
Samarappuli, L. - RRI  
KEYWORDS: Fertilizers;Heveas

108. Studies on the localized  
application of fertilizer in coconut  
Tennakoon, N.A., Fernandopulle, M.N.,  
Somasiri, L.W., Vidana Arachchi, L.P.  
- CRI  
KEYWORDS: Coconut Palms;  
Fertilizer;Biological localization

109. Substitution of Eppawela  
rockphosphate for imported rock  
phosphate (IRP) for cinnamon (1998)  
Heenkende, A.P. - DEA  
KEYWORDS: Rock Phosphate;Spices;  
Fertilizers;Productivity;  
Plant Growth;Plant Physiology

110. Utilization of rubber as a  
fertilizer  
Warnakula, M.T. - RRI  
KEYWORDS: Waste Water;Agricultural  
Economics

### 1.11 Animal Husbandry

111. SAREC/NARESA/NLDB Buffalo Research Station - Narangalla (1992)  
Subasinghe, D.H.A., Abeygunawardena, H., Kuruwita, V.Y. - UP Ranawana, S.S.E., De Alwis, M.C.L. - VRI  
KEYWORDS: Buffaloes; Research Stations

112. Development of a Bean (*Phaseols vulgaris*) plant resistant to Bean fly (*Ophiomyia phaseoli*) attack by the transfer of ICP gene from dipteran toxic *Bacillus thuringiensis* strain AB 6C (1995)  
Bandara, J.M.R.S., Kulatunga, C.U. - UP  
KEYWORDS: Bean; *Phaseols vulgaris*; Leguminous Vegetables; Toxine

113. Regeneration of Ebony and satin using tissue culture techniques (1995)  
Peiris, S.E., Gunasena, H.P.M. - UP  
KEYWORDS: Tissue Culture; Regeneration

### 1.12 Genetics & Cell Biology

114. Building capacity in production of high quality seed of *E. grandis* provenances progeny trial (1995)  
Bandara, K.M.A. - DF  
KEYWORDS: Fuelwood; Genetic Variability; Breeding

115. Cardamom breeding programme (1989)  
Herath, I.H.M.H.B., Gurusinghe, P.de.A. - DEA  
KEYWORDS: Spices; Plant Breeding

116. Characterisation of sugarcane germplasm by using molecular techniques (1995)  
Ubayasena, W.L.C., Perera, A.L.T., Sumanasinghe, V.A. - PGIA  
KEYWORDS: Sugarcane; Molecular Techniques

117. Development of molecular markers for Hevea breeding (1997)  
Herath, S.P. - RRI  
KEYWORDS: Heveas; Plant Genetics; Molecular Biology; Plant Breeding

118. Evaluation of quality parameter in the nursery stage of V.P. plants in the breeding programme. (1999)  
Abeyasinghe, I.S.B. - TRI

KEYWORDS: Propagation; Breeding; Tea Quality

119. Evaluation of selected sugarcane varieties for rainfed sugarcane farming. (1998)  
Sanmuganathan, K. - SRI  
KEYWORDS: Sugarcane; Plant Growth; Evaporation

120. Eucalyptus *microcorys* provenance trials (1994)  
Bandara, K.M.A. - DF  
KEYWORDS: Genetic Variation; Timber; Breeding

121. Genetic improvement of Arecanut (1997)  
Dharmaparakrama, A.L.S. - DEA  
KEYWORDS: Genetic Improvement; Arecanut; Productivity; Plant Growth

122. Genetic improvement of Cardamom (1997)  
Dharmaparakrama, A.L.S. - DEA  
KEYWORDS: Spices; Productivity; Genetic Improvement

123. Germplasm evaluation of betel. (1998)  
Raveendran, A. - DEA  
KEYWORDS: Germplasm; Betel

124. Production of improved coconut varieties crosses of Ambakelle elite palms with four selected germplasm accessions (1995)  
Fernando, W.M.U., Perera, A.A.L. - CRI  
KEYWORDS: Genetics Diversity; Germplasm; Coconut Palms; Productivity

125. Production of Phytochemicals of antitumour, antileukemic and antiviral activities by cell cultures of *Ophiorrhiza mungos*. (1997)  
Arambewela, L., Samarasinghe, P., Ranaweera, S.S. - ITI  
KEYWORDS: Tissue Culture; Phytochemistry

126. Reproductive relationship of okra (*Abelmoschus esculantas*) and Brinjal (*Solanum melongena*) with their closely. (1998)  
Samarajeewa, P.K. - PGRC  
KEYWORDS: Okra; Brinjal; Hybridization; Vegetables; Breeding; Embryology; Genetics

127. Screening of papaya breeding lines for resistance to papaya ringspot virus.

De Zoysa, I.J. - HORDI

KEYWORDS : Fruits;Breeding;  
Plant Diseases

128. Selection and genetic improvements of Piper nigrum L. cultivars oil and Piperine content and their micropropagation. (1995)

Rantunga, J. - CISIR

KEYWORDS: Genetic Improvements;Peper;  
Propagation;Volatality

129. Varietal development in bittergourd. (1994)

Wahundeniya, B. - HORDI

KEYWORDS: Hybridization;Productivity;  
Vegetables

### 1.13 Intercropping

130. Biometrical analysis of intercropping. (1995)

Sivachandiran, S., Thattil, R.O.,

Samitha, S. - PGIA

KEYWORDS: Biometry

131. East West row planting of rubber and intercropping rubber (1992)

Pathiratne, L.S.S. - RRI

KEYWORDS: Heveas

132. Evaluation of Coffee Spacing Levels under Coconut (1997)

Dias, K.A. - DEA

KEYWORDS: Coconut Palms;Plant  
Growth;Productivity;Water Potential

133. Intercropping cinnamon under small holder conditions (1995)

Pathiratne, L.S.S. - RRI

KEYWORDS: Heveas;Spices

134. Intercropping rubber grown in dryzone with sugercane

Nugawela, A. - RRI

KEYWORDS:Sugercane;  
Heveas;Land Use

135. Interplanting rubber with tea (1991)

Iqbal, S.M.M. - RRI

KEYWORDS:Tissue Culture;Heveas;  
Propagation

136. Interplanting rubber with tea (1991)

Yogarathnam, N. - RRI

KEYWORDS: Cropping Systems;Heveas;  
Tea;Land Use;Export Crops

137. Mixed cropping studies with other crops (1993)

Abeykoon, A.M.D. - DEA

KEYWORDS: Soil Conservation;Agronomy;  
Mixed Farming

138. Rubber Banana intercropping systems.

Rodrigo, V.H.L. - RRI

KEYWORDS: Banana;Heveas

139. Rubber timber intercropping system (1992)

Rodny, V.H.L. - RRI

KEYWORDS: Timbers;Hevea

140. Rubber, timber intercropping systems (1992)

Rodrigo, V.H.L. - RRI

KEYWORDS: Timber;Heveas

141. Socio-economic aspects of intercropping

Herath, P.H.M.U. - RRI

KEYWORDS: Heveas;Socio-Economic  
Factors

142. Study of performance of intercropping cashew and mango under coconut (1995)

Gunathilaka, H.A.J. - CRI

KEYWORDS: Cashew;Coconut Plams  
Palms;Productivity

### 1.14 Pathology

143. Biological control of anthracnose disease in dessert in banana by host epiphytic antagonist. (1995)

De Costa, D.M., Bandara, M.R.S.,  
Kelaniyangoda, B. - PGIA

KEYWORDS: Biological Control;Plant  
Diseases;Fruits

144. Biological control of hevea diseases (1995)

Jayasuriya, K.E. - RRI

KEYWORDS: Heveas;Disease  
Control;Biological Control;Plant  
Diseases

145. Blister blight control (1999)

Balasuriya, A., Jayasundara, W.J.K.K  
- TRI

KEYWORDS: Tea Plants;Disease Control;  
Plant Diseases

146. Brown budding for disease resistance (1993)  
Senaviratne, P. - RRI  
KEYWORDS: Plant Diseases;  
Disease Resistance
147. Chemical control of rubber diseases  
Jayasinghe, C.K. - RRI  
KEYWORDS: Plant Diseases; Heveas;  
Chemical Control; Fungicides;  
Disease Control
148. Effect of VA mycorrhizae on hevea plants (1997)  
Jayarathne, A.H.R. - RRI  
KEYWORDS: Mycorrhizae; Heveas;  
Plant Diseases; Fungi
149. Investigation about sporadically appearing sugarcane diseases in sugarcane plantations. (1998)  
Jayaratne, D.L. - SRI  
KEYWORDS: Pathogens; Disease Control;  
Plant Diseases; Productivity; Sugarcane
150. Investigation on diseases of ornamental plants. (1995) - HORDI  
KEYWORDS: Ornamental Plants; Plant Diseases
151. Miscellaneous disease problems and their diagnosis. (1999)  
Balasuriya, A., Pradeepa, N.H.L,  
Jayasundara, J.N.K.K - TRI  
KEYWORDS: Plant Physiology; Manure
152. Phloem necrosis (PN) control (1999)  
Balasuriya, A., Pradeepa, N.H.L,  
Jayasundara, J.W.K.K - TRI  
KEYWORDS: Disease Resistant; Vectors
153. Possible occurrence of new strains of the fungus corynespora  
Silva, W.P.K. - RRI  
KEYWORDS: Disease Control; Plant Pathology
154. Probability distribution of disease incidence and spatial spread of chillie leaf curl in the dry zone. (1995)  
Gunaratne, B.N., Thattil, R.O.,  
Samitha, S. - PGIA  
KEYWORDS: Capsicum; Plant Diseases
155. Root disease control (1999)  
Balasuriya, A., Pradeepa, N.H.L,  
Jayasundara, J.W.K.K - TRI  
KEYWORDS: Disease Control; Breeding;  
Propagation; Plant Diseases
156. Screening and evaluation of soil borne Fungi with antagonistic properties to two major root diseases; Poria and Brown Root Rots. (1999)  
Balasuriya, A., Pradeepa, N.H.L,  
Jayasundara, J.W.K.K - TRI  
KEYWORDS: Plant Diseases; Pathogens;  
Fungi; Biological Control
157. Screening of new fungicides against white root disease  
Jayarathne, A.H.R. - RRI  
KEYWORDS: Fungicides; Plant Diseases
158. Stem disease control. (1999)  
Balasuriya, A., Pradeepa, N.H.L,  
Jayasundara, J.W.K.K - TRI  
KEYWORDS: Plant Diseases; Tea;  
Breeding; Propagation
159. Studies on bacterial canker of citrus (1998)  
De Zoysa, I.J. - HORDI  
KEYWORDS: Plant Diseases; Bacteria
160. Studies on intergrated control methods for control B.L.B. disease of betel. (1998)  
Herath, H.M.T.L. - DEA  
KEYWORDS: Plant Diseases; Disease Control; Betel
161. Studies with agromysin with available germplasm for B.L.B. (1998)  
Herath, H.M.T.L. - DEA  
KEYWORDS: Germplasm; Betel;  
Plant Diseases
162. Variations of phytophthora species on Hevea in Sri Lanka and the defence responses of Hevea on them (1997)  
Jayasuriya, K.E. - RRI  
KEYWORDS: Plant Diseases; Heveas;  
Disease Resistant
- 1.15 Pests & Pest Control**
163. Biology of hevea pathogens  
Jayasinghe, C.K. - RRI  
KEYWORDS: Pathogens; Plant Biology; Heveas
164. Bionomics, populaion dynamics and management of lace bug damaging black pepper in Sri Lanka (1995)  
Mikunthan, G., Wijayagunasekara,  
H.N.P., Ahangama, D. - PGIA  
KEYWORDS: Spices; Population Dynamics;

## Pest Management

165. Control of pests of mushrooms (1994)  
Wahundeniya, I. - HORDI  
KEYWORDS: Mushrooms;Growth Regulators

166. Improvement of integrated pest management in rice based on understanding biology and population ecology of paddy bug *Leptocorisa oratorius*  
Nugaliyaddde, L. - RRDI, Edirisinghe, J. - UP  
KEYWORDS: Pest Management;Rice

167. Studies on activity patterns of larval and pupal parasitoid species of coconut caterpillar. (1994)  
Fernando, L.C.P. - CRI  
KEYWORDS: Parasites

168. Studies on control of minor pests (1992)  
Rajapakse, C.N.K. - CRI  
KEYWORDS: Chemical Control; Coconut Palms

169. Survey on TDP (Brown pest) (1997 December)  
Nugawela, A. - RRI  
KEYWORDS: Photosynthesis;Heveas

### 1.16 Plant Nutrition

170. Clonal differences in phosphate utilization  
Dissanayake, A. - RRI  
KEYWORDS: Nutrients;Heveas

171. Clone-nutrient studies (1994)  
Attanayake, T. - RRI  
KEYWORDS: Nutrients;Heveas

172. Effect of chloride on yield of coconut (1994)  
Somasiri, L.W. - CRI  
KEYWORDS: Coconut Palms;Nutrients; Productivity

173. Effect of N K fertilizers on growth yield of pepper (1992)  
Nagappan, M., Heenkende, A.P. - DEA  
KEYWORDS: Productivity;Plant Growth;Fertilizers

174. ERP as a source of P  
Dissanayake, A. - RRI  
KEYWORDS: Nutrients

175. Estimation of the decomposition rate of different kinds of organic manures and nutrient availability to the coconut palm (1995)  
Tennakoon, A. - CRI  
KEYWORDS: Manure;Decomposition; Nutrients;Soil Microorganisms; Coconut Palms

176. Fertilizer requirement of new hevea clones used in rubber plantations of Sri Lanka (1992)  
Dharmakeerthi, R.S. - RRI  
KEYWORDS: Heveas;Fertilizers

177. Fertilizer requirement of nursery plants (1992)  
Dharmakeerthi, R.S. - RRI  
KEYWORDS: Fertilizers;Heveas

178. Foliar Nutrition  
Samarappuli, L. - RRI  
KEYWORDS: Plant Nutrition;Fertilizer

179. Identification of nutrient disorder and toxicity symptoms on three dracaena varieties popular in the export market. (1998)  
Peries S E, - UP  
KEYWORDS: Nutrient Disorder;Toxicity

180. Impact of sulphur on nutritional aspects of rubber.  
Dissanayake, D.M.A.P. - RRI  
KEYWORDS: Hevea;Fertilizers; Plant Nutrients

181. Micro nutrients. (1998)  
Samarappuli, L. - RRI  
KEYWORDS: Hevea;Soil Sciences;Plant Nutrition;Fertilizers

182. Phosphate nutrition. - RRI  
KEYWORDS: Hevea;Fertilizers;Rock Phosphate

183. P status of rubber soils  
Dissanayake, A. - RRI  
KEYWORDS: Nutrients;Soil Fertility

184. Response of sugarcane to N fertilizer and evaluation of mineralization biological fixation and crop removal of N in sugarcane growing soils of Sri Lanka. (1998)  
Subasinghe, R. - SRI  
KEYWORDS: Nitrogen Fixation; Sugarcane;Mineralization;Fertilizers

185. Soils and plant nutrition  
Samarappuli, L. - RRI

KEYWORDS: Experimental Design;Statistical Analysis  
186. Sulphur nutrition  
Dissanayake, A. - RRI  
KEYWORDS: Plant Nutrition;Soil Properties

187. Use of VAM as a mineral nutrient improviser (particullary P)(1999)  
Balasuriya,A., Pradeepa, N.H.L,  
Jayasundara, J.W.K.K - TRI  
KEYWORDS: Tea Plants;Minerals

### 1.17 Plant Physiology

188. Eco-physiological studies on the invasive behavior of Cuscuta spp. in Sri Lanka and their impact of host plants  
Wijesundara, D.S.A. - RBG, Marambe,  
Buddhi,Tennekoon, K.U - UP  
KEYWORDS: Plant Behavior

189. Growth and yield studies of cocoa (1993)  
Abeykoon, A.M.D. - DEA  
KEYWORDS: Flowers;Cocoa;Productivity;  
Plant Growth

190. Investigation of the physiological and biochemical consequences of moisture stress in chilli (Capsicum annum L. var acuminatum Fingeth)and their importance in yield determination (1995)  
Mahendran, S., Bandara, D.C., De Costa, W.A.J.M. - PGIA  
KEYWORDS: Capsicum;Moisture Stress;  
Productivity

191. Physiological basis of photosynthesis efficiency and carbon partitioning as sucrose in introduced and a traditional variety of sugarcane (1996)  
Satchithanatham, S.,Bandara, D.C. - PGIA  
KEYWORDS: Sugarcane;Photosynthesis

192. Root systems and root growth of Hevea (1995)  
Senaviratna, P. - RRI  
KEYWORDS: Heveas;Plant Growth

### 1.18 Plant Protection

193. Developing a biocontrol method to protect coconut products from

toxigenic fungi using edible microorganisms (1996)  
Karunaratne, A.M. - UP  
KEYWORDS: Biological control;Coconut Products;Edible Microorganisms

194. Development of chemical/Biochemical methods in the control SHB damage. (1997)  
Abeysinghe,I.S.B. - TRI  
KEYWORDS: Chemical Control;Disease Control;Plant Diseases

195. Insecticide evaluation on bean borer  
Dhanapala, M.G. - FCRDI  
KEYWORDS: Insecticides

### 1.19 Post Harvest Technology

196. Developing a biocontrol method to increase shelf-life of Embul banana (1999)  
Karunaratne, A.M. - UP  
KEYWORDS: Post Harvest;Banana;  
Biological Control:Fruits

197. Pre and post-harvest treatments and their effects on keeping quality of pineapple under cold storage conditions (1995)  
Selvarajah, S. - PGIA  
KEYWORDS: Fruits;Post Harvest;  
Pineapple

198. Testing of specific pre and post harvest treatments for reducing the incidence of chilling injury in pineapples (1998)  
Herath, W., Adikaram, N.K.B - UP  
KEYWORDS: Pineapples;Fruits;  
Post Harvest

199. The testing of specific pre and post harvest treatments for reducing the incidence of chilling industry in pineapples. (1997)  
Willson, Shanthi. - ITI  
KEYWORDS: Fruits;Plant Physiology;Pineapples

200. Testing of specific pre and post harvest treatments for reducing the incidence of chilling injury in pineapples (1997)  
Wijeratnam, R.S.W. - CISIR  
KEYWORDS: Post Harvest;Pineapples:  
Fruits

## 1.20 Tissue Culture

201. Studies on the vegetative propagation of coconut (1984)  
Vidana Arachchi, V.R.M. - CRI  
KEYWORDS: Cell Culture;Screening; Mutagenesis

## 1.21 Weeds & Weed Control

202. Effect of tillage systems on weed ecology in mungbean (1995)  
Ranawana, A.W.M.A.W., Sangakkara, U.R., Marambe, B. - PGIA  
KEYWORDS: Leguminous Vegetables

203. Effective cover and weed management practices (1993)  
RRI  
KEYWORDS: Herbicides;Legumes

## 2. AQUATIC SCIENCES & FISHERIES

### 2.1 Aquatic Biology

204. Analysis of the *Amblygaster sirm* populations from Southern, Western and Eastern coastal waters of Sri Lanka and adjacent waters (1997)  
Karunasinghe, W.P.N., Karunanayake, Eric. - UC  
KEYWORDS: *Amblygaster sirm*; Fish Population

205. Biology, ecology, population dynamics, and breeding in captivity of endemic ornamental fish in river systems of Southern Sri Lanka. (1995)  
Cumaranatunge, P.R.T. - UR  
KEYWORDS: Aquatic Ecology; Population Dynamics; Breeding; Endemic Fishes; Ornamental Fishes; Aquaculture

206. Clarification of taxonomic status of newly described fish species *Rasbora willpita* and its genetic relationship with other *Rasbora* species found in Sri Lanka (1998)  
De Silva, M.P.K.S.K. - UR  
KEYWORDS: Fishes; Genetics

207. Community structure of the macro-invertebrate assemblage in the Hulganga watershed. (1996)  
Silva, E.I.L., IFS  
KEYWORDS: Community Structure; Invertebrates; Watersheds

208. Diversity and phytosociology of aquatic macrophytes in the upper tributaries of Kelani, Walawe, Kalu and Mahaweli rivers of Sri Lanka (1996)  
Abeynayake, K., Seneviratne, G.I. - UC  
KEYWORDS: Aquatic Botany; Phytosociology

209. Enhancing the capacity of the Department of Fisheries Biology, University of Ruhuna to carry out Marine Environmental Research (1996)  
Cumaranatunga, P.R.T., - UR  
KEYWORDS: Marine Environments

210. Experimental studies on the mangrove based brush pile fishery.  
Samarakoon, J.I - UK  
KEYWORDS: Mangroves; Fisheries

211. Investigations of litter production, litter decomposition and associated fungi in the Mangrove Communities of Negombo Lagoon  
Amerasinghe, M - NARA  
KEYWORDS: Decomposition; Fungi; Mangroves

212. Population dynamics of selected endemic fish species in two river basins of Sri Lanka (1998)  
Wijeyaratne, M.S.J., Amerasinghe, U.S. - UK  
KEYWORDS: Population Dynamics; Fishes

213. Studies on the distribution, population density and breeding habits of fish at Horton Plains (1998)  
Jinadasa, J.D. - USJ  
KEYWORDS: Population Density; Breeding; Fishes; Horton Plains; Aquaculture

214. Study to determine the distribution and the abundance of toxigenic Cyanobacteria and toxicity of Cyanobacterial blooms in Sri Lankan fresh water. (1998)  
Jayatissa L.P. - UR  
KEYWORDS: Blue Green Algae; Toxicity; Cyanobacteria; Population Dynamics; Algae

215. Trace metals in freshwater fish. (1996)  
Silva, E.I.L. - IFS  
KEYWORDS: Trace Metals; Industrial Pollution; Fishes

216. Water quality management and disease control in endemic ornamental fish culture (1995)  
Nilakarawasam, N. - UR  
KEYWORDS: Water Quality; Ornamental Fishes; Fish Culture

217. Ornamental Fish utilization of oil extracts from Fish waste for Food and feed purposes (1994)  
Jayaweera, V. - NARA  
KEYWORDS: Fish Utilization; Lipids; Oil Extraction

## 2.2 Aquatic Resources

218. Determination of links between mangroves sea grasses and crustaceans and fish populations in Negombo estuary.

Jayamanne, S.C. - NARA

KEYWORDS: Sea Grasses; Mangroves; Biological Production; Fish Population; Crustaceans

219. Exploitation levels of indigenous aquatic plants and fish in Sri Lanka (1999)

Seneviratne, G.I. - UC

KEYWORDS: Aquatic Flora; Fishes

## 2.3 Coastal Environment

220. Investigation of performance of coral reefs in coast protection

Karunaratna, G.H.U., Hettiarachchi, S.S.L. - UM

KEYWORDS: Coastal Protection; Coral Reefs

221. Research on the natural resources management in the coastal environment of Sri Lanka (1997)

Dayaratne, P., Amarasiri, C. - NARA

KEYWORDS: Natural Resources; Coastal Environment; Coral Reef; Fishery Resources

222. Research on the natural resources, management in the coastal environment of Sri Lanka: pelagic productivity, plankton, fish population dynamics, small pelagic fisheries and fish resources (1995)

Cumaratunga, P R T. - UR

KEYWORDS: Natural Resources; Coastal Management; Coastal Environment; Fishery Products; Fishery Resources

## 2.4 Fishery Management

223. Shrimp health management

Jayasinghe, J.M.P.K. - NARA

KEYWORDS: Shrimps; Fishery Management

## 2.5 Pathology

224. Physiochemical factors influencing the spread of white spot disease in *Penaeus monodon* cultures in North Western Province, Sri Lanka. (1996)

Hettiarachchi, M., Pathirane, A. - UK

KEYWORDS: Fish Disease; Shrimp

### 3 BIOLOGICAL SCIENCES

#### 3.1 Biochemistry

225. Antioxidant principles from Sri Lankan medicinal plants reputed to possess cardioprotective activity (1998)

Seneviratne, C.K. - USJ, Thabrew, M.I. - UK

KEYWORDS: Medicinal Plants

226. Chemical studies on Piper betel and development of value added. (1998)

Arambewela, L.S.R. - ITI

KEYWORDS: Betel Industry; Insecticides

227. Correlation of palmyrah fruit morphology with flabelliferins and debittering techniques (1999)

Jansz, E.R. - USJ

KEYWORDS: Palmyrah; Fruits; Morphology

228. Develop DNA Probes to Detect the Presence of Fungal Pathogens in Propagation Material and Plant Tissues (1996)

Wijesundera, R L C., Chandrashekar, N V. - UC

KEYWORDS: Pathogens

229. Isolation and characterization of plasmids in the Sri Lankan microflora. (1996)

Gunasekera, M.B. - UC

KEYWORDS: Bacteria

230. Large Scale Production of Alpha Amylase from *Aspergillus Oryzae* (1996)

Arasaratnam, V., Balasubramaniam, K. - UJ

KEYWORDS: *Aspergillus oryzae*; Fungi

231. Studies on Carbon dioxide utilization. (1998)

Chandrasena, G. - SRI

KEYWORDS: Sugarcane

232. Use of DNA markers for molecular characterisation of tea clones. (1999)

Liyanage, A.C. - TRI

KEYWORDS: Tea; Genetics; Breeding

233. Use of Molecular and cytotoxic techniques to study the *Anopheles culicifacies* species complex and its relationship to

malaria transmission in India and Sri Lanka (1998)

Ramasamy, M.S. - IFS

KEYWORDS: Mosquitoes; Malaria

#### 3.2 Biotechnology

234. Analysis of the genetic variations of the *An. culicifacies* complex in Sri Lanka using DNA based techniques (1999)

De Silva, G.B.D.M.K. - USJ

KEYWORDS: Genetic Variations

235. Characterization and DNA cloning of acid proteinase from insectivorous plant genus *Nepenthes* (1997)

Athauda, S.B.P. - UP

KEYWORDS: Molecular Biology; Insectivorous Plant

236. Candidate peptide and DNA vaccines for *faliparum* malaria Synthesis and Immunogenicity in laboratory animals (1995)

Ramasamy, R., Dharmasena, P.H., Gnaneshan, S. - IFS

KEYWORDS: Malaria

237. Development of Molecular Diagnostic tests for Quiescent *Colletotrichum* Infections in Fruits and Vegetables (1996)

Dharmasiri, S., Adikaram, N.K.B. - UP

KEYWORDS: Infections; Fruits; Vegetables Plant Disease

238. Development of techniques for genetic transformation of *Mangifera indica*, using *Agrobacterium tumefaciens* (1996)

Jayasekera, G.A.U., Silva, T D. - UC

KEYWORDS: Genetics

239. In-vitro regeneration and mass propagation of two endangered Sri Lankan forest tree species (*Diospyros quaesita* and *Diospyros atrata*) (1996)

Iddagoda, N., Senanayake - IFS

KEYWORDS: Propagation

240. Molecular systematics of *Cynopterus* species complex (*Batamagachiroptera Pteropodidae*) in Sri Lanka (1998)

Gunasekera, M.B., Ratnasooriya, W.D. - UC

KEYWORDS: *Cynoptera*; *Pteropodiae*

241. Phenology of *Nipa fruticans* in relation to environmental factors and genetic diversity for conservation and management (1998)  
Hettiarachchi, S., Jayatissa, L.P.  
- UR  
KEYWORDS: Phenology; Genetic Diversity

242. Production of phytochemicals of anti-tumour, anti-leukemic and anti viral activities by cell cultures of *Ophiorrhiza mungos* L. (1996)  
Ranaweera, S.S. - USJ  
KEYWORDS: Tissue Culture

243. Screening black pepper vines against Piper yellow mottle virus by Polymerase Chain Reaction (PCR) and adoption of dot blot hybridization techniques for mass scale screening of Peper plants (1997)  
De Silva, P., Dharmadasa, M. - EARS  
KEYWORDS: Spices; Virology; Plant Diseases

244. Use of biotechnology for conservation and sustainable use of medicinal plants in Sri Lanka (1996)  
De Silva, G., Hirimburegama, K. - UC  
KEYWORDS: Medicinal Plants

### 3.3 Ecology

245. Distribution and habitat relationships of birds Reptiles and Amphibians in the Knuckles Region, Sri Lanka (1998)  
Kotagama, S.W. - UC, Padmalal, U.K.G.K., - OU  
KEYWORDS: Biodiversity; Birds; Reptiles; Amphibians

246. Ecology of sambar deer (*Cervus unicolor unicolor*) in relation to habitat requirements and predator (*Panthera pardus pusca*) pressure at the Horton Plains National Park. (1996)  
Kotagama, S.W., Padmalal, U.K.G.K., Rajapakse, I.K. - OU  
KEYWORDS: Predators; National Parks

247. Floristic composition and vegetation structure of the Kalatuwawa forest reserve. (1994)  
Seneviratne, G.I., Abeynayake, K. - UC  
KEYWORDS: Vegetation; Forest Reserve

248. Integrated studies on biodiversity and water quality in an

irrigated rice field ecosystems (1995)  
Priyantha, N, Edirisinghe, J.P, Wijekone, S. - UP  
KEYWORDS: Biodiversity; Water Quality; Agricultural Irrigation; Ecosystems

249. Status and habitat preferences of the Amphibians and Reptiles at Horton Plains (1998)  
De Silva, Anslem. - UP  
KEYWORDS: Amphibians; Reptiles; Horton Plains

250. Studies on diversity and distribution of Lichens and air quality on Ritigala mountain and its vicinity  
Wijeyratne, S.C. - USJ  
KEYWORDS: Lichens; Biodiversity

251. Study of the distribution patterns of Algae on the Southern coast of Sri Lanka with special reference to Anthropogenic effects  
De Silva, M.P., Sapumohotti, W.P. - UR  
KEYWORDS: Algae; Biodiversity

252. Study on the ecological relationships between endemic plants and vertebrates as an aid to the conservation of biodiversity in Sri Lanka. (1999)  
Ratnasooriya, W.D., Wijesinghe, M. - UC  
KEYWORDS: Endemic Flora; Vertebrates; Biodiversity; Ecology

### 3.4 Genetics & Cell Biology

253. Characterization of sugarcane germplasm by Random amplified polymorphic DNA (RAPD)  
Perera, A.L.T. - SRI  
KEYWORDS: Germplasm; Sugarcane

254. Collection and conservation of woodapple germplasm. (1997)  
Samarasinghe, W.L.G. - PGRC  
KEYWORDS: Woodapple; Fruits; Germplasm; Propagation

255. Collection conservation and characterization of banana germplasm. (1994)  
Samarasinghe, W.L.G. - PGRC  
KEYWORDS: Banana; Germplasm; Biodiversity

256. Comparative systematical study of Genus Shorea. (1997)  
Senanayake, P. - UK  
KEYWORDS: Chromatography; Taxonomy

257. Genome analysis of the Sri Lankan Elephant. (1998)  
Gunasekara, M.B. - UC  
KEYWORDS: Genome Analysis; Elephants; Genetics; Nature Conservation

258. Identification of physiological marker/markers in meat goats for genetic evaluation in Sri Lanka (1997)  
Jeyaruban M.G. - VRI  
KEYWORDS: Goats; Genetics;

259. Inducing gen Bioactive natural products from Sri Lankan lichens: culturing of the mycobiont in the laboratory (1996)  
Karunaratne, N.L.V.V., Adikaram, N.K.B. - UP  
KEYWORDS: Lichens; Natural Products

260. Induction and invitro selection of valuable mutations in the genus Psophocarpus (1993)  
Silva, T.D - UC  
KEYWORDS: Mutation

### 3.5 Microbiology

261. Isolation identification and establishment of a preserved collection of microbial cultures of general and industrial importance. (1995)  
Abeygunawardena, S.I, Kodikara, C.P, Widanapathirana, S, - UK  
KEYWORDS: Preserved Collection

### 3.6 Natural Resources

262. Identifying and processing botanical specimens from the Sinharaja Forest (1997)  
Jayasuriya, A.H.M. - PGRC  
KEYWORDS: Sinharaja Forest; Herbarium; Rain Forest

263. Nature biomass and activities of fungi associated with the fast and slow decomposing leaf litter at Hakgala natural forest. (1995)  
Kannangara, B.T.S.D.P. - UK  
KEYWORDS: Biomass; Decomposition

264. Socio Economic Valuation and Conservation of Tropical Forests: Case of Wet zone Natural Forests in Sri Lanka (1996)  
Bogahawatte, C. - UP  
KEYWORDS: Socio Economic Factors; Nature Conservation; Rain Forests

265. Sustainable use of wild flora to develop the Floriculture industry (1999)  
Dhanasekera, D.M.U.B., Krishnarajah, S.A. - RBG  
KEYWORDS: Floriculture; Tissue Culture; Propagation

266. Video Film on Horton Plains-the good the bad and the ugly (1998)  
De Silva, Anslem. - UP  
KEYWORDS: Horton Plains; Video Film

### 3.7 Parasitology

267. Characterization of mosquito medgut molecules modulating transmission of the malaria parasite (1995)  
Ramasamy, M.S., Ramasamy, R., Sriknshanaraj, K.A., - IFS  
KEYWORDS: Mosquitoes; Malaria Parasites

268. Study of the nature and incidence, and prevalence as well as aspects of biology of Schistosoma species in cattle, buffalo and goats in Kandy district including a study of vector Biology. (1987)  
Breckenridge, W.R. - UP  
KEYWORDS: Cattle; Buffaloes; Goats; Vector Biology

269. Study on the taxonomic and ecology of cattle ticks (acarina : Ixodidae) in Sri Lanka. (1996)  
Amarasinghe, F.P. - UP  
KEYWORDS: Ecology; Parasites; Taxonomy; Acarina

### 3.8 Pathology

270. Developing a bio control method to protect coconut products from toxigenic fungi using edible microorganisms (1996)  
Karunaratne, A.M. - UP  
KEYWORDS: Biological Control; Coconut Products; Fungi; Edible Microorganisms;

271. Insecticide resistance in Anopheline vectors of malaria-an island wide survey (1999)  
Karunaratne S.H.P.P. - UP  
KEYWORDS: Insecticides;Malaria Vectors;Mosquitoes

272. Studies to control post harvest disease and extended storage life of rambuttan via the use of generally regarded as safe (Gras) compounds. (1998)  
Abeysekara, M. - ITI  
KEYWORDS: Plant Diseases;Fruits; Disease Control

### 3.9 Pests & Pest Control

273. Identification and isolation of entomopathogenic nematodes found in the coastal belt of Southern Sri Lanka and its potential in the control of insect pests of rice and vegetables. (1996)  
Premachandra, W.T.S.D.,  
Wickramasinghe, M.G.V. - UR  
KEYWORDS: Identification;Isolation; Pest Control

274. Investigation of natural enemies of sugarcane borers, mealy bugs scales (1994)  
Seneviratne, J.A.U.T., Kumarasinghe, N.C. - SRI  
KEYWORDS: Sugarcane;Pest Control; Predators;Biological Control

275. Isolation and identification of mycopathogens of insects from Southern part of Sri Lanka (1999)  
Wegiriya, H.C.E - UC  
KEYWORDS: Pathogens;Insects

### 3.10 Plant Physiology

276. Study of the phenology and the relative growth rates of certain selected mangrove spp. in southern Sri Lanka (Galle, Devinuwara, Rekawa) (1993)  
Hettiarachchi, P.L.,Samarakoon, S.P. - UR  
KEYWORDS: Plant Growth;Mangroves

### 3.11 Taxonomy

277. Documenting biodiversity- a taxonomic study of plant bugs (Hemiptera) of Sri Lanka (1998)  
Wijesuriya, Anura - HORDI  
KEYWORDS: Biodiversity;Taxonomy; Hemiptera

278. Identification of crop pollinating Hymenoptera/Apodea of Sri Lanka with emphasis on studies on pollinators of cucumber (1997)  
Edirisinghe, J.P. - UP  
KEYWORDS: Biodiversity;; Pollinators;Hymenoptera

279. Study on the taxonomic and ecology of cattle ticks (Acarina:Ixodidae)in Sri Lanka. (1996)  
Amarasinghe, F.P. - UP  
KEYWORDS: Cattle Ticks;Acarina

### 3.12 Tissue Culture

280. Clonal Multiplication of *Pericopsis moniana* by tissue culture (1998)  
Ranasinghe, D.M.S.K. - USJ  
KEYWORDS: *Pericopsis moniana*

281. Development of tissue culture protocol for mass propagation of slow growing ornament aquatic plant species having a export market. (1998)  
Yapabandara, Y.M.A.B. - ITI  
KEYWORDS: Aquatic Flora

282. In-vitro propagation of *Coscinium fenestratum colebr* (1997)  
Senerath, W.T.P.S.K. --USJ  
KEYWORDS: Propagation;Medicinal Plants

283. Rapid micropropagation of medicinal plants in family Solanaceae. (1997)  
Deshappriya, N. - UK  
KEYWORDS: Propagation;Tissue Culture;Solanaceae

## 4 CHEMICAL SCIENCES

### 4.1 Analytical Chemistry

284. Bioassay directed isolation of antifungal and antibacterial compounds from fungi (1997)

Abeytunga (nee Wijayarathne) - UC

KEYWORDS: Bioassay; Isolation; Fungi

285. Development of a spectrophotometric method for determination of Cr+6 in waste water from tanning industries (1998)

Pathiratne, K.A.S. - UK

KEYWORDS: Spectrophotometry; Tanning Industry

286. Development of an electrochemical method to remove toxic metals from electroplating waste solutions (1998)

Pathiratne, K.A.S. - UK

KEYWORDS: Electroplating; Toxicology; Trace Metals

287. Investigation of the applicability of conducting polymers for the fabrication of novel liquid (1998)

Rajapakse, R.M.G., Chandanie, A.D.L. - UP

KEYWORDS: Polymers

288. Pesticides residue analysis in well water (1997)

Wettasinghe, A. - HORDI

KEYWORDS: Pesticides; Metabolites

289. Study of seasonal variations in the water quality of Walawe river with reference to effluent discharges from paper and sugar industries. (1999)

De Silva, M.P. - UR

KEYWORDS: Water Quality; Seasonal Variations

290. Utilization of coconut water from DC manufacture to develop a beverage and a health drink (1998)

Somasiri, L.L.W., Marikkara, J.M.N., Hewavitharanage, P. - CRI

KEYWORDS: Beverages

### 4.2 Biochemistry

291. Bioactive Natural Products from Sri Lankan Lichens: Culturing of the Mycobiont in the Laboratory (1996)

Karunaratne, N.L.V.V., Adikaram, N.K.B. - UP

KEYWORDS: Natural Products; Lichens

292. Chemical Investigation of Fern Flora of Sri Lanka (1997)

Gunaherath, G.M.K.B. - OU

KEYWORDS: Chemical Investigation; Flora

293. Chemical Study of Insecticidal activity of *Europhobia antiquorum* (1999)

Manuweera, G.K. - DOA

KEYWORDS: Insecticide; *Euphorbia antiquorum*

294. Chemistry and bioactivity of Glycosides of some Sri Lankan Sapindaceae and Combretaceae (1995)

Jayasinghe, H.H.M.U.L.B. - IFS

KEYWORDS: Phytochemistry

295. Development of a theoretical quantitative structure - activity relationship for antitumor Guanidinothiazole carboxamides using molecular mechanics and quantum mechanics (1997)

Silva, W.S.J. - USJ

KEYWORDS: Quantum Mechanics

296. Investigation of organic and inorganic constituents in the serum of Sri Lankan elephants (1995)

De Alwis, H. - UC

KEYWORDS: Elephants; Blood Serum

297. Isolation and Characterization of new Antibiotics from Local Fungi (1995)

Herath, W.H.M. - MRI

KEYWORDS: Isolation; Antibiotics; Fungi

298. Isolation purification and Characterisation of Invertase from Novel Natural Sources (1996)

Weerasooriya, M K B. - UK

KEYWORDS: Isolation; Natural Sources

299. Isolation, purification and characterization of natural inhibitors of aspartic proteinases (human immunodeficiency virus proteinase, malarial parasite proteinase, renin etc.) (1998)

Athauda, S.P.B. - UP  
KEYWORDS: Isolation; Natural  
Inhibitors; Immunodeficiency; Parasites

300. Preliminary survey of the lead  
content in the blood of workers in  
garages and printing presses (1995)  
Wijesekera, R D. - UC  
KEYWORDS: Mineral Contents

301. Quantitative estimation of  
active ingredients in some Sri Lankan  
medicinal plants using Ion induced  
desorption techniques (1998)  
Barlo Daya, D.D.N. - UC. Mohottalage,  
M.S.B. - CISIR  
KEYWORDS: Medicinal Plants

302. Study of the effects of  
Azadirachtin and other polar  
components in neem seeds (*Azadirachta  
indica*) on specific tissues of  
cockroaches (*Periplaneta  
americana*) (1997)  
Paranagama - UK  
KEYWORDS: Cockroaches; *Periplaneta  
americana*; Tissue Culture; Neem

#### 4.3 Environmental Chemistry

303. Development of sensors for the  
monitoring of pollutants of the  
atmosphere and the hydrosphere (1996)  
Bandara, H.M.N., Perera, J.S.H.Q.,  
Rajapakse, R.M.G., Tennakoon, D.T.B. -  
UP  
KEYWORDS: Sensors; Pollutants

304. Investigation of the extent of  
air pollution in Sri Lanka through  
acid precipitation measurements  
(1995)  
Ileperuma, O A., Ranatunga, R P J., -  
UP; Kodituwakku, S. - UPDM  
KEYWORDS: Pollution; Acid  
Precipitation

#### 4.4 Physical Chemistry

305. Chemically Modified Electrodes  
for Detection of Clinically Important  
Compounds. (1995)  
Priyantha, N. - UP  
KEYWORDS: Modified Electrodes

306. Metalloporphyrin Coated  
Electrodes as Sensors for Pesticides  
(1994)  
Priyantha, N. - UP

KEYWORDS: Coated Electrodes;  
Pesticides

307. Microstructured semi-conductor  
photocatalysts for destruction of  
organic contaminants and removal of  
heavy metals in water (1995)  
Tennakone, K. - IFS  
KEYWORDS: Semiconductors;  
Photocatalysts; Organic  
Contaminants; Heavy Metals;

308. Plant tissue based electrodes  
for detection of herbicides (1996)  
Navaratne, A - UK  
KEYWORDS: Herbicides; Electrodes

309. Syntheses, photophysics and  
spectroelectrochemical studies of  
transition metal complexes (1998)  
Jayaweera, P.M. - USJ  
KEYWORD: Spectrochemistry

## 5 EARTH SCIENCES

### 5.1 Geology

310. Monitoring of landslide movements using geophysical methods (1999)

Arambepola, N.M.S.I. - NBRO  
KEYWORDS: Landslide;Geophysics

311. Risk assessment and environmental protection in landslide prone areas (1997)

Arambepola, N.M.S.I. - NBRO  
KEYWORDS: Landslides;Environmental Protection

312. Sedimentological study of the City of Colombo and its environs  
Katupotha, K.N.J. - USJ  
KEYWORDS: Sedimentology

313. Structural geology  
Kehelpannala, K.V.W. - IFS  
KEYWORDS: Geology;Tectonics; Mineralisation;Elements Mobility

### 5.2 Meteorology

314. For an area of 100 km around Colombo: identifying damages to life and property by lightning discharges and developing a technique of forecasting movement of thunderstorms using wind field (1997)  
Abhayasinghe Bandara, K.R. - DM  
KEYWORDS: Weather Forecasting

315. Introduction of a meso-scale numerical model in Sri Lanka, firstly to overcome data sparseness (A major constraint in local weather forecasting)and secondly to use model out put as a forecasting tool (1999)  
Basnayake, B.R.S.B. - MOBIA  
KEYWORDS: Weather Forecasting

316. Study of Climate trends over South Asia and their influence on Sri Lanka. (1996)  
Sumathipala, W.L. - OU  
KEYWORDS: Climatic Changes

### 5.3 Mineralogy

317. Determination of the composition of graphite bearing fluids in the earth's crust and origin of vein in Sri Lanka (1996)  
Kehelpannala, K.V.W. - IFS  
KEYWORDS: Geology;Minerals;Graphite

318. Development of new methods for gem exploration - application of the Rb/SR techniques (1996)  
Rupasinghe, M.S. - IFS  
KEYWORDS: Geology;Minerals

319. Isolation of Rare Earths from Monazite Using Plumbagin (1996)  
Ariyaratne, K.A.N.S. - UP  
KEYWORDS: Isolation;Geology;Minerals

## **6 EDUCATION**

### **6.1 Primary Education**

320. A research on the development of education in disadvantaged Primary School in Sri Lanka. (1993)

Perera, W.J. - NIE

KEYWORDS: Primary Schools

### **6.2 Secondary Education**

321. Critical evaluation of the G.C.E.(A/L) syllabus use in schools in Sri Lanka (1993)

Pathirage, R. - UC

KEYWORDS: Syllabus

### **6.3 Teaching & Training**

322. Approaches to text and context in English language learning teaching in Sri Lanka as a means of re-orienting English towards new social goals and realities (1998)

Parakrama, A. - UC

KEYWORDS: Languages

### **6.4 Science Education**

323. Design and construction of a low cost colorimeter suitable for use in GCE Advanced Level Teaching (1997)

Fernando, S.A - UC

KEYWORDS: Equipments

324. Perspectives and constraints to scientific research in Sri Lanka (1988)

KEYWORDS: Perspectives; Scientific Research

325. Teaching Aids (1997)

Munasinghe, C.R. - NERD

KEYWORDS: Instruments

## 7 ENERGY

### 7.1 Biomass Energy

326. Disposal of market garbage by anaerobic digestion producing fertilizer and bio gas (1995)  
Silva, Gemunu. - SEC, Tillekaratna, Y R. - NERD  
KEYWORDS: Garbage; Anaerobic Digestion Fertilizers; Biogas

327. Fluidized bed gasification of bio mass for power generation. (1999)  
Edirisinghe, N.K. - NERD  
KEYWORDS: Biomass

328. Suite of web-based compact disks and practical home-kit aids for teaching Chemistry (1999)  
Hoole, D., Hoole, S.R.H. - OU  
KEYWORDS: Chemistry; Information Technology

329. Survey on utilization of charcoal for domestic cooking in Sri Lanka and a Literature Survey of Charcoal production and stoves available in other countries. (1996)  
Adhikarinayake, T.B., Mendis, V., Weerathne, M.D.S. - NERD  
KEYWORDS: Stoves; Energy Efficiency

### 7.2 Electrical Energy

330. Design of 500w permanent magnet generator for low speed operation (1998 June)  
Wimalarathne, G.B. - NERD  
KEYWORDS: Electricity; Generators

331. Modification to through withers with a view to reduce cost of electrical energy used in tea processing. (1999)  
Mohamed, M.T.Ziyad, Galahittiyawa, G.L.C. - TRI  
KEYWORDS: Tea Industry

### 7.3 Physical Energy

332. Assessment of wave energy potential in southern coastal belt of Sri Lanka  
Tennakoon, T.K.D. - NARA  
KEYWORDS: Wave Energy

### 7.4 Solar Energy

333. Solar energy for tea drying. (1998)  
Mohamed, M.T.Ziyad; Koneswaramoorthy, S - TRI  
KEYWORDS: Tea Industry

334. Solar Energy in Tea Drying Process (1994)  
Mohamed, M.T.Ziyad - TRI  
KEYWORDS: Tea Industry

335. Use of alternative energy resources for drying of rubber  
Siriwardane, S. - RRI  
KEYWORDS: Energy Resources; Heveas

### 7.5 Thermal Energy

336. Energy Efficiency in Buildings (1994)  
Fernando, W.J.L.S. - SLEMA  
KEYWORDS: Energy Efficiency; Lighting

337. Geological and Geophysical Investigations for Geomacronal Energy in Sri Lanka - Study of Maha Oya of Mahapelena Thermal (1994)  
Fonseka, G.M. - IFS  
KEYWORDS: Geology; Geothermal Energy

## 8 ENGINEERING SCIENCES

### 8.1 Chemical Engineering

338. Improvements in radiation vulcanization (1989)  
Liyanage, N.M.V.K. - RRI  
KEYWORDS: Latex;Vulcanization;Rubber Products

339. Latex bitumen emulsions in road construction (1989)  
Liyanage, N.M.V.K. - RRI  
KEYWORDS: Bitumen;Emulsion;Surfactants

### 8.2 Civil Engineering

340. Behavior of sediment transport in unsteady flow - An experimental study  
Pathirana, K.P.P.;Ratnayake, Uditha. - UP  
KEYWORDS: Sedimentology;Transportation

341. Feasibility of using product models for representing building information (1995)  
Dias, W.P.S. - UM  
KEYWORDS: Building Construction

342. Investigation of quality parameters of the Mahaweli water from the Polgolla barrage to the Kalawewa reservoir under various operation conditions. (1996)  
Nandalal, K.D.W., - MDA, Ediriweera, S.W. - UP  
KEYWORDS: Quality Parameters; Reservoir

343. Suitability of Dynamic roughing filters as pretreatment systems for slow sand filters in Sri Lanka (1995)  
Amirthanathan, G.E., Jayalath, J.M.J.C. - UP, Padmasiri, J.P. - NWSDB  
KEYWORDS: Filters

344. Water level controller (1999)  
Munasinghe, C.R. - NERD  
KEYWORDS: Equipments

345. Viability of Anaerobic Filters and Wetlands Systems for Sewage Treatment under Sri Lankan Conditions (1995)  
Amirthanathan, G.E., Corea, E.J.H. - UP

KEYWORDS: Sewage Treatment;Anaerobic Filters;Wetland Systems

### 8.3 Electrical Engineering

346. Load controller for synchronous generator. (1999)  
Wijesiriwardena, N. - NERD  
KEYWORDS: Generators

347. Noise level reduction of electronic fan regulator. (1999)  
Peiris, A.W.S. - NERD  
KEYWORDS: Noise Pollution;Regulators

348. Single phase induction generator. (1999)  
Wijesiriwardena, N. - NERD  
KEYWORDS: Generators;Electricity

349. Temperature Controller (1998)  
Wijesiriwardena, N. - NERD  
KEYWORDS: Sensors

## 9 ENVIRONMENTAL MANAGEMENT

350. Bio gas production from factory waste water (skim serum) (1998)

Senaviratne, G.

KEYWORDS: Biogas;Waste Waters;Energy Sources

351. Determine optimum dimensional and material parameters for low cost ventilated noise attenuating elements (1997)

Pannila, A.S.,Gunasekera, S.P.N.J. - CISIR

KEYWORDS: Pollution Control;Elements

352. Environmental pollution caused by pesticide application-phase (1998)

Kumaragamage, D. - UP

KEYWORDS: Pesticide;Ground Water;Pollution;Soil Properties

353. Investigation of a novel method based on photogenerated singlet Oxygen for control of dengue mosquito larvae: environmental pollution abatement (1999)

Wickramasinghe, A.,Karunaratne, V.,Rajapaksa. - UP

KEYWORDS: Mosquitoes;Environmental Pollution

354. Study on the solid waste management of the Colombo Municipal Council semi residential area

Costa, S. - OU, Gamage, T.A. - CMC

KEYWORDS: Waste Management

## 10 Food Science

### 10.1 Food Industry

355. Effect of marinades and method of cooking on the quality of cooked beef. (1995)

Wijayawardana, K.H.R., Cyril, H.W., Fonseka, T.S.G. - PGIA

KEYWORDS: Cooking Methods; Meat

356. Determination of Iodine in Raw Foods and its Fate during Cooking (1995)

Deraniyagala, S P. - USJ

KEYWORDS: Foods; Nutrition

357. Utilization of Cucurbitaceae spp for food industry (1997)

Goonaratne J. - CISIR

KEYWORDS: Cucurbitaceae; Food Industry

### 10.2 Food Technology

358. Development of processing technology for the manufacture of organoleptically acceptable Soybean Cheese (1995)

Ediriweera, N., Jayatissa, P M. - CISIR

KEYWORDS: Soybean; Fermentation; Cheese

359. Modified atmospheric storage and its effect on biochemical changes of banana, avocado, pineapple and mango (1996)

Illeperuma, D.C.K., Peiris, B.C.N., - UP, Wijeratne, D.B.T. - HORDI

KEYWORDS: Fruit Storage; Biochemical Changes; Pineapple

360. Non-cellulosic polysaccharides of lesser known millets and grain legumes and their physiological effects (1999)

Gooneratne, Jaanaki - CISIR

KEYWORDS: Leguminous Vegetables

## 11 INDUSTRIES

361. Analysis of competitiveness of the Sri Lankan sugar Industry (1998)  
Keerthipala, A.P. - SRI  
KEYWORDS: Sugarcane Industry
362. Analysis of macro-economic policies in the sugar industry. (1998)  
Keerthipala, A.P. - SRI  
KEYWORDS: Sugarcane; Economic Policy
363. Creaming of Latex (1997)  
De Silva, K.G.K. - RRI  
KEYWORDS: Latex; Efficiency
364. Development of a method to completely inhibit polyphenol oxidase and proxidase of Black Tea. (1998)  
Liyanage, A.C. - TRI  
KEYWORDS: Tea Industry
365. Development of technology for producing a liquid Tea concentrate with greater degree of soluble solids. (1999)  
Liyanage, A.C. - TRI  
KEYWORDS: Tea Industry; Beverages
366. The effect of macroeconomic policies of rubber industry.  
Naranpanawa, A.K.B. - RRI  
KEYWORDS: Heveas; Agricultural Policy
367. Factors affecting the blackness and curliness of low country teas. (1999)  
Amarakoon, A.M.T. - TRI  
KEYWORDS: Tea Quality; Tea Industry
368. Future direction of rubber wood industry in Sri Lanka : supply and demand, technology constraints and investment opportunities (1996)  
Samarappuli, I.N., Tillekeratne, L.M.K., De Silva, K.G.K. - RRI  
KEYWORDS: Rubber Industry; Wood Industry; Hevea
369. Impact of SAPTA on local rubber industry  
Samarappuli, I.N. - RRI  
KEYWORDS: Trade Policy; Rubber Industry
370. Indicative planning for development of rubber products sector (1997)  
Samarappuli, I.N. - RRI
- KEYWORDS: Rubber Products; Rubber Industry
371. Modified Rubbers (1994)  
De Silva, K.G.K. - RRI  
KEYWORDS: Natural Rubber; Rubber Industry
372. Oil Extended NR in tyre retreading industry (1994)  
Liyanage, N.M.V.K - RRI  
KEYWORDS: Rubber Industry; Natural Rubber
373. Quality improvement of skim rubber  
Siriwardane, S., RRI  
KEYWORDS: Energy Consumption; Rubber Industry
374. Social cost of rubber effluents  
Naranpanawa, A.K.B. - RRI  
KEYWORDS: Rubber Effluents
375. Tapping panel dryness (1997)  
Nugawela, A. - RRI  
KEYWORDS: Heveas; Rubber Industry; Economics
376. Tea sector studies. (1999)  
Jayakody, J.A.A.M. - TRI  
KEYWORDS: Tea Industry; Policy Issues; Agricultural Products
377. Treatment technology for other industrial effluents  
Rathnayake, R.M.U.N. - RRI  
KEYWORDS: Textile Industry; Waste Water; Industrial Wastes
378. Utilization of rubber factory effluent.  
Dissanayake, D.M.A.P. - RRI  
KEYWORDS: Rubber Industry; Agronomy; Soil Properties; Environmental Pollution; Fertilizers
379. Effects of Industrialisation urbanisation on mangroves with reference to river water pollution and upstream land uses (1993)  
De Silva, M.P. - UR  
KEYWORDS: Industrialisation; Mangroves; Water Pollution; Land Use

## **12 LIBRARY & INFORMATION SCIENCES**

389. Use of low level computers in industrial automation. (1999)  
Pathigoda, P.A.C.C. - NERD  
KEYWORDS: Automation;Industries

### **12.1 Information Science**

380. Buffalo information dissemination programme (1995)  
Abeygunawardena, H., Siriwardena, A.J.de S., Perera, B.M.O.A - UP  
KEYWORDS: Buffaloes;Information Dissemination;Livestock Development

381. GIS for rubber lands  
Samarappuli, L. - RRI  
KEYWORDS: Heveas;Land Use

382. Information dissemination in rubber sector  
Herath, P.H.M.U. - RRI  
KEYWORDS: Rubber Industry;Information Dissemination

383. Preparation of a Bibliography on the Climate of Sri Lanka (1999)  
Zubair, L. - IFS  
KEYWORDS: Bibliography;Climatology;Documentation

384. Preparation of drug monographs and technical bulletins of the work conducted by the Natural Products group (1998)  
Arambewela, L.S.R - CISIR  
KEYWORDS: Documentation;Drugs

385. Tea estate mapping. (1999)  
Jayakody, J.A.A.M. - TRI  
KEYWORDS: Mapping;Tea Estate

### **12.2 Information Technology**

386. Establishment and maintenance of a micro level tea information systems in GIS(geographic Information System) (1999)  
Jayakody, J.A.A.M. - TRI  
KEYWORDS: Databases;Tea

387. Industrial Automation (1999)  
Munasinghe, C.R. - NERD  
KEYWORDS: Equipments;Automation

388. Maintenance of Databases  
Wijesuriya, B.W. - RRI  
KEYWORDS: Meteorology;Database Management;Agriculture

## 13 MEDICAL & HEALTH SCIENCES

### 13.1 Biochemistry

390. Effects of garlic on hepatocarcinogenesis in normal and hypercholesterolemic rats (1997)  
Wickramasinghe, N., Seneviratne, A.G.D.H. - USJ  
KEYWORDS: Medical Treatments; Hypercholesterolemia

### 13.2 Biotechnology

391. Development of DNA markers for the Sri Lankan population for human identification (1997)  
Gunasekera, M.B., Goonesekere, N.C.W. - UC  
KEYWORDS: Identification

392. P53 mutations in oral concerns in Sri Lanka patients (1995)  
Mendis, Lalitha., Perera, Nelum - UC  
KEYWORDS: Mutations; Oncology

### 13.3 Community Medicine

393. Defaulting among patients attending central sexually transmitted diseases clinic and the impact of an intervention programme (1998)  
Ariyaratne K.A.M., Senanayake, K. - USJ  
KEYWORDS: Venereal Diseases

394. Esophageal motor functions in Chronic alcoholic patients (1997)  
Dissanayaka, A.S., De Silva, J., Ferdinandis, T.G.H.C. - UK  
KEYWORDS: Alcoholism

395. Occupational health hazards and their effect on health of stone quarry workers (1998)  
Ibralebbe, M.S.  
KEYWORDS: Health Hazards

396. Post traumatic stress disorders (1993)  
Somasundaram, D.J., Sivashankar, R., Damian, S. - UJ  
KEYWORDS: Psychiatry

397. Study to determine the occupational exposure to mercury, and

Hepatitis B virus amongst the Dental care workers in Sri Lanka (1999)  
Abeyratne S. - MHIM, Fernando, S. - USJ  
KEYWORDS: Viral Diseases; Hepatitis

398. A study of factors influence in patient satisfaction in family practices of Colombo. (1994)  
De Silva, G. - MOH  
KEYWORDS: Patient Satisfaction; Health Services

### 13.4 Dental Science

399. Experimental study of the posterior composite restorations during static and dynamic compression (1993)  
Amaratunga, D.I., Peiris, L.C.L. - UP  
KEYWORDS: Dentistry

400. Longitudinal study on the eruption of the permanent dentition in children in high and low socio-economic status in Kandy (1994)  
Chandrasekera, M.S., Nanayakkara, D. - UP  
KEYWORDS: Dentition; Socio-Economic Indicators

401. Periapical granulomas and cysts: the relationship of lesion size to diagnosis, conservative treatment and factors determining success. (1996)  
Wettasinghe, K.A. - UP  
KEYWORDS: Cysts; Dentistry

402. Structural analysis of the edge of the cleft Lip and palate in individuals with cleft lip and palate (1996)  
Angunawela, P. - UC, Wijayaweera, C.J. - USJ  
KEYWORDS: Abnormalities; Cleft Lips; Cleft Palates

### 13.5 Embryology

403. Preception and attitudes on human reproduction (1996)  
Ruberu, D.K. - USJ  
KEYWORDS: Human Development

### 13.6 Forensic Medicine

404. Determination of the normal weights of body organs of Sri Lankans in autopsy samples in order to obtain a references range (1998)

Perera, H.J.M - UC

KEYWORDS: Body Organs;Autopsy

### 13.7 Gynaecology

405. Differentials in fertility and contraceptive behaviour in the Nuwara Eliya District (1997)

Srikanthan, R. - UC

KEYWORDS: Fertility;Contraceptive Behaviour

406. Study of the incidence, risk factors and possible treatment interventions of immunological subfertility (1997)

Seneviratne, H.R. - UC, Fernando, D.M.S. - USJ

KEYWORDS: Medical Treatments; Immunization;Fertility

407. Study to determine the prevalence of congenital infection among new-born and the proportion of women at risk of giving birth to babies with congenital infection at the Colombo South Teaching Hospital (1999)

Weerasekera, D.,Fernando, S. - USJ

KEYWORDS: Congenital Infections

### 13.8 Microbiology

408. Detection of antibodies to Hepatitis C Virus in a cohort of high risk individuals in Sri Lanka (1997)

Fernando, S.,Vitharana, U.T. - USJ

KEYWORDS: Antibodies;Hepatitis

409. Study of clinical, epidemiological, diagnostic and molecular aspcts of Blastocystis hominis (1995).

Mendis, L. - UC

KEYWORDS: Epidemiology

### 13.9 Parasitology

410. Isolation, purification and characterization of clinically important proteinases of filarial parasites (1997)

Athauda, S.P.B. - UP

KEYWORDS: Isolation;Purification Filaria;Parasites

411. Safety studies on the use of combinations of Albendazole with Ivermeition DEC

Jayakody, R.L. - UC

KEYWORDS: Filaria;Pharmacology; Disease Control

412. Study of nematode trapping fungi active against caprine gastrointestinal nematodes in Sri Lanka (1999)

Faizal, A.C.M.,Rajapakse, R.P.V.J. - VRI

KEYWORDS: Nematodes;Fungi;Parasites

413. Use of antigens of setaria digitata adults for the development of a DOT-ELISA technique specific for bancroftian filariasis (1996)

Ekanayake, S. - USJ

KEYWORDS: Filaria

### 13.10 Pathology

414. Atherosclerotic Arterial disease in a cross section of Sri Lankans (1994)

Kumarasinghe, M.P.,Senaratne, J.W.B, - UC

KEYWORDS: Heart Diseases

415. Attitudes and knowledge on Atherosclerotic Arterial disease in a cross section of Sri Lankans (1994)

Kumarasinghe, M.P.,Senaratne, J.W.B, - UC

KEYWORDS: Heart Diseases

416. Changes in antioxidant levels in coronary artery bypass surgery (1996)

Chandrasena, L.G. - UK

KEYWORDS: Bypass Surgery

417. Charcaterisation of the Anaemia in malaria in a Sri Lanakan population. (1999)

De Silva,S.W. - USJ

KEYWORDS: Malaria

418. Chemical and biological investigation of native remedies for asthma (1993)

Wimalasiri, W.R. - UP

KEYWORDS: Asthma;Drugs

419. Clinical epidemiology of obesity in Sri Lankan urban and rural population (1996)  
Siribaddana, S.H., Fernando, D.J.S. - UC  
KEYWORDS: Epidemiology; Population
420. Cross sectional community based study on the prevalence of glaucoma (1996)  
Rawoof, U.H.R. - HCD  
KEYWORDS: Eye Diseases; Glaucoma
421. Determination of Efficacy and virus neutralization antibody levels in canines before and after immunization with antirabies vaccine (1999)  
Wimalaratne, O. - MRI, Gunatilake, M. - UC  
KEYWORDS: Virology; Immunization; Rabies; Vaccination
422. Diagnosis, subgrouping and serotyping of Group A rotaviruses (1997)  
Mendis, L - UC  
KEYWORDS: Viruses
423. DNA finger printing of M tuberculosis using restriction fragment length polymorphism (RFLP). Its use in the study of epidemiology of tuberculosis with special reference to the prison population (1995)  
Perera, Jennifer - UC  
KEYWORDS: Tuberculosis; Epidemiology; Prison Population
424. Epidemiological study on cutaneous leishmaniasis in Sri Lanka (1997)  
Abeywickreme, W. - UK  
KEYWORDS: Epidemiology
425. Epidemiological study on visual defects and Amblyopia among children (1995)  
Wimalasundera, S. - UR  
KEYWORDS: Epidemiology; Visual Defects
426. How useful is histological examination to differentiate between tuberculous and non-tuberculous mycobacterial infection (1997)  
Fernando, M. - UC  
KEYWORDS: Tuberculosis; Bacterial Diseases
427. Investigation of magnesium sulphate therapy for the control of spasms and autonomic dysfunction in severe tetanus (1997)  
Attygalle, D., Nalini, R. - NHC  
KEYWORDS: Tetanus; Medical Treatments; Disease Control
428. Relationship Between Microalbuminuria, Dyslipidaemia, Blood Glucose and Fructosamine and the Antioxidant Status in Sri Lankan Diabetics (1996)  
Sivakanesan, R., Illangasekera, V.U.L. - UP  
KEYWORDS: Diabetics
429. Reproduction contractions. (1996)  
Peiris, Roshini. - USJ  
KEYWORDS: Venereal Diseases
430. Rice based oral dehydration therapy for acute childhood diarrhea (1999)  
Rajapakse D.D., Jayasinghe S.D. - ITI  
KEYWORDS: Diarrhoea
431. Serological evidence of an association between chlamydia pneumoniae infection and coronary heart disease in Sri Lanka (1999)  
Mendis, S., Arsecularatne, Y.M. - UP, Withana. - MRI  
KEYWORDS: Heart Diseases
432. Short term and long term effects of daily consumption of coconut fat, soyabean fat and sesame oil on plasma lipids and lipoproteins of healthy adults, patients with ischemic heart disease and patients with hyperlipidemia (1997)  
Mendis, S., Samarajeewa, U., Thattil, R.O. - UP  
KEYWORDS: Heart Diseases
433. Study to assess prognostically important features of breast carcinoma in a Sri Lankan population (1998)  
Lokuhetty, M.D.S., Sheriffdeen, A.H. - UC  
KEYWORDS: Carcinoma

### 13.11 Physiology

434. Study on the duration of lactational amenorrhoea lactational performance, lactational behaviour and endocrine profiles in lean and obese women. (1995)  
Tennekoon, K.H.- UC, Wasalathanthri.  
-USJ  
KEYWORDS: Lactation

### 13.12 Veterinary Sciences

435. Effect of different suckling practices in milk yield of cows and growth of calves. (1997)  
Abeygunawardena, I.S. - UP  
KEYWORDS: Suckling; Animal Growth; Dairy Products

436. Identification of physiological marker/markers dual purpose goats for genetic evaluation in Sri Lanka. (1996)  
Satgunaratnam, K., Jeyaruban, M.G. - PGIA  
KEYWORDS: Genetic Evaluation; Goats

437. Isolation, identification and characterisation of viruses causing economically important poultry diseases (1995)  
Gunawardena, G.S.P. De S. - VRI  
KEYWORDS: Virology; Poultry; Animal Diseases

438. Studies on the Pathogenesis of Haemonchosis in Goats (1997)  
Rajapakse, R.P.V.J. - UK, Horadagoda, N.U. - UP  
KEYWORDS: Pathogenesis; Goats

439. Urea molasses based feed as an economical feed source for dairy cattle. (1995)  
Uthayathas, A. , Perera, N.F. - PGIA  
KEYWORDS: Animal Husbandry; Dairy Farms

## 14 PHYSICAL SCIENCES

440. Characterisation of the fast heavy induced photon emission from amino acids (1996)

Ariyaratne, T.R - UC

KEYWORDS: Photon Emission

441. Characterisation of fast heavy ion induced luminescence from biomolecules. (1997)

Ariyaratne, T.R. - UC

KEYWORDS: Heavy Metals; Luminescence

442. Determination of the effect of grain size of bronze on the reactivity of bronze coated aluminium plates (1995)

Jayanetti, J.K.D.S. - UC

KEYWORDS: Coated Plates

443. Development of novel materials and devices based on polymers/natural rubber, semiconductors and graphite for energy conversion, storage and other applications (1995)

Bandara, H.M.N., Rajapaksa, R.M.G., Chandanie, A.D.L., Premaratne, K., Dissanayake, M.A.K.L. - UP

KEYWORDS: Devices; Polymers; Natural Rubber; Semiconductors; Graphites; Energy Conversion

444. Electro deposited Cuprous Oxide for Solar Cell Applications (1997)

Siripala, W.P., Jayasuriya, K.A.D.D. - UK

KEYWORDS: Solar Cells

## 15 SOIL SCIENCES

445. Characterization of soil physical properties in the wet zone of Sri Lanka. (1996)  
Jayalath, K.D.D., Mapa, R.B., Dharmasena, P.B. - PGIA  
KEYWORDS: Soil properties
446. Economic evaluation and recommendation on integrated soil nutrient moisture management  
Samarappuli, L. - RRI  
KEYWORDS: Humidity;Agricultural Economics
447. Evaluation of nutrient status in coconut soils  
Somasiri, L.W., Fernandopulle, M.N., Tennakoon, N.A., Vidana Arachchi, L.P. - CRI  
KEYWORDS: Coconut Palms;Nutrients
448. Mineralogical studies of Rubber soils.  
Dissanayake, D.M.A.P. - RRI  
KEYWORDS: Minerals;Soil Properties; Hevea;Fertilizers
449. Nitrogen transformation in rubber growing soils (1995)  
Dharmakeerthi, R.S. - RRI  
KEYWORDS: Volatalization;Soil Properties
450. Soil and foliar survey. (1997)  
Samarappuli, L. - RRI  
KEYWORDS: Fertilizers;Hevea
451. Soil conservation and development of degraded lands. (1990)  
Samarappuli, L. - SRI  
KEYWORDS: Soil Errosion;Land;Hevea
452. Soil fertility and moisture conservation  
Samarappuli, L. - RRI  
KEYWORDS: Soil Fertility;Humidity
453. Soil fertility survey of sugarcane growing soils in Sri Lanka. (1998)  
Subasinghe, R. - SRI  
KEYWORDS: Plant Nutrients;Plant Growth;Soil Fertility
454. Soil survey and classification  
Dissanayake, D.M.A.P. - RRI  
KEYWORDS: Soil Properties;Hevea; Productivity;Soil Classification
455. Use of double haploid methodology for the improvement of Rice for multiple soil stress factors (1996)  
Serasinghe, P.S.J.W., Pathirana, R, - UR  
KEYWORDS: Soil Properties

## 16 STATISTICS

456. Application of time series techniques

Wijesuriya, B.W. - RRI

KEYWORDS: Heveas;Data Analysis

457. Development alternative/new techniques for data analysis (1996)

Peiris, T.S.G. - CRI

KEYWORDS: Multivariate;Data Analysis

458. Further development modification and application of statistical methodologies (1997)

Wijesuriya, B.W. - RRI

KEYWORDS: Statistical Analysis;Heveas

459. Modeling frequency data (1997)

Wijesuriya, B.W. - RRI

KEYWORDS: Data Analysis

460. Sampling methods (1996)

Wijesuriya, B.W. - RRI

KEYWORDS: Heveas;Data Analysis

461. Study of the bionomics of the sibling species of Anopheles subpictus (1996)

Abhyawardana, T.A. - AMC

KEYWORDS: Sibling Species;

Mosquitoes;Malaria;Bionomics

462. Ways of increasing precision of experiments (1996)

Wijesuriya, B.W. - RRI

KEYWORDS: Accuracy;Experimental Methods

463. Yield forecasting in coconut (1996)

Peiris, T.S.G. - CRI

KEYWORDS: Coconut Palm;

Productivity