THIRTY FIFTH

ANNUAL REPORT
(2005-2006)

APRIL 2005 TO MARCH 2006

DIRECTORATE OF PLANNING AND MONITORING

TAMIL NADU AGRICULTURAL UNIVERSITY

COIMBATORE - 641 003

THIRTY FIFTH

ANNUAL REPORT
(2005-2006)

Compiled by

Prof.R.BALASARASWATHI

Prof.N.RAVEENDARAN

Dr.V.SARAVANAKUMAR

DIRECTORATE OF PLANNING AND MONITORING

TAMIL NADU AGRICULTURAL UNIVERSITY

COIMBATORE - 641 003

THIRTY FIFTH

ANNUAL REPORT
(2005-2006)

ANNUAL REPORT COMMITTEE

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Prof R Balasaraswathi
Director Planning and Monitoring

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Director, Extension Education

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Director, WTC

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Director, CPPS

Dr.S.Natarajan
Director, SCMS

Dr.D.Veeraragavathatham
Dean, HC&RI

Dr.R.Selvaraj
Director, ODL

TAMIL NADU AGRICULTURAL UNIVERSITY
COIMBATORE – 641 003

FOREWORD

Prof.C.Ramasamy
Vice-Chancellor

The status of majority of our Indian farmers is lower than other entrepreneurs. This is because only very few farmers consider farming as a commercial activity. Tamil Nadu Agricultural University is striving hard to inculcate in the minds of farmers that farming is also a business and helps farmers to do farming profitably. This venture is gaining momentum and I am sure that our farmers will realize and upgrade their status.

Agricultural education is an everchanging phenomenon owing to the technological innovations and environmental considerations. Our university reorients its approach and revamps the curricula and syllabi from time to time to suit the needs of the day. Tamil Nadu Agricultural University being the best University for Agricultural Education in the nation, the students are moulded to provide technically skilled manpower to undertake and fulfill the task of modernizing agriculture in the State.

Our research programs are mainly focused towards the needs of our farmers. The research programs are problem oriented, location specific, time bound and demand driven. New, high yielding, resistant and good quality varieties and hybrids of various crops are released every year by Tamil Nadu Agricultural University. The university is also engaged in designing and fabricating new farm implements. Keeping in mind the small and marginal farmers, affordable and easy to use farm implements are developed to benefit ultimately our farming community.

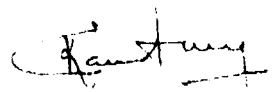
The findings of TNAU are effectively carried to the farmers and entrepreneurs and they also inturn appreciate the workability and profitability of the findings. Precision farming is the most appreciated activity of Tamil Nadu

Agricultural University. The success in Precision farming has been recognized by the State Government and has been extended to 7 more districts.

The Domestic Export Market Intelligence Cell of this university disseminates real time price for different Agricultural Commodities and advises the farmers as to sell their produce immediately after harvest or store for better renumerations. This facility available in Tamil Nadu Agricultural University is the first of its kind in the country. The university is also systematically conducting entrepreneurship development training programmes

I thank the State and Central Governments, State Planning Commission, State Marketing Board, Indian Council of Agricultural Research, other National and International Funding Agencies who have funded research, education and extension activities of Tamil Nadu Agricultural University. I thank all my university colleagues without whose tireless contributions the achievements of Tamil Nadu Agricultural University would not be possible.

I congratulate the Director (Planning and Monitoring) and her team of Scientists in bringing out this document in a commendable manner. I am sure that all our stake holders would be benefited by the information given in this report and this report will help them understand the sustained efforts taken by us to help the farming community and the scientific fraternity.



Prof.C.Ramasamy
Vice-Chancellor

Tamil Nadu Agricultural University
Coimbatore – 641003

PREFACE

Prof.R.Balasaraswathi
Director i/c, Planning and Monitoring

Agriculture is the largest occupation in India. Being the "backbone of India", agriculture has always been India's most important economic sector. Growth in agriculture and agribusiness can effectively influence the economic growth of our country. Tamil Nadu Agricultural University is striving hard to uplift the status of farming community and to help agripreneurs to meet the challenges faced in this era of globalization and liberalization. The scientists and teachers of this university plan their research, education and extension activities based on the needs and problems faced by its stakeholders.

Tamil Nadu Agricultural University is ranking number one in the country in agricultural education. To the changing needs of the day, the curricula and syllabi are revised periodically to produce graduates of international standard

Besides imparting effective education, the scientists of the university are involved in developing high yielding varieties and hybrids. Also cheap and best Agricultural implements are designed and fabricated by the scientists of this university to help the farmers and agripreneurs.

The findings of Tamil Nadu Agricultural University are effectively disseminated to the farmers and technocrats by the extension workers of the University. The farmers and technocrats are given training both in the university and right in their fields / work places thus effectively helping the stakeholders to fully make use of the findings of this university.

The achievements of the university in education, research and extension are compiled and presented elaborately in this 35th (2005-06) annual report.

I thank profusely our respected Vice-Chancellor, Prof.C.Ramasamy who has guided and encouraged us to bring out this report.

On behalf of Tamil Nadu Agricultural University I thank the State and Central Governments, State Planning Commission, State Marketing Board, Private Funding Agencies, other National and International Funding Agencies who have extended their financial support to execute all the activities of the University in an effective way.

I thank all the staff of the Directorate of Planning and Monitoring for their efforts in successfully bringing out this report.

R.Balasaraswathi

Tamil Nadu Agricultural University
Coimbatore – 641003.

CONTENTS

1. Introduction

Agriculture in Tamil Nadu has to compete not only with other states of India but also with world agriculture. The agricultural products from Andhra Pradesh, Karnataka, Gujarat, Maharastra and Himachala Pradesh and also the processed and imported agricultural goods from Malaysia, Indonesia, Srilanka, USA and China are challenging in terms of quality and price with domestic agricultural products. So farmers in Tamil Nadu should be innovative to adopt modern technologies for increasing productivity and reducing unit cost in order to meet out the existing market driven competition. To achieve this, the farmers should give much consideration to the following thrust areas viz., quality of products, raising crops based on market demand, suitable plant protection measures and post harvest technologies, warehousing and supply chain management, market information based decision making and value addition. Agricultural research should be carried out based on the above mentioned thrust areas and the results of the same should reach the farming community properly and effectively. Agricultural education should be so designed to sustain this sort of research and the results of the research should be useful to the farming community. At present, we are dutiful to feed our people by increasing production so as to reduce the gap between demand and supply despite the threatening factors like geometric increment of population, decrement in agricultural land, effects of climatic change, monsoon failure etc. Keeping the above in mind, Tamil Nadu Agricultural University has proactively designed and implemented its triple functions of education, research and extension activities. In this line, the significant achievement and developments made in TNAU during 2005-06 in agricultural education, research and extension activities are presented in this report.

Education

Tamil Nadu Agricultural University has reached the position of one of the best agricultural universities in India due to its good quality of agricultural education. TNAU's significant role in offering agricultural education is made possible through the 10 colleges in seven campuses and a diploma institute. The curriculum of the university is tailored to meet out the needs of the clientele who are engaged in Agriculture, Horticulture, Agricultural Processing, Agricultural Marketing, Agro-based industries, Agricultural Engineering and Home Science as well as future agriculture development and research. The needed changes being made in the curriculum and offering quality education is reflected by the successful graduates achieving in organizations of different sectors. As usual the students of the university have recorded their excellence through their success in All India Competitive Examinations like Indian Administrative Service (IAS), Indian Police Service (IPS), and Indian Forestry Service (IFS).

Students' Welfare

The Directorate of Students Welfare (DSW) in Tamil Nadu Agricultural University, Coimbatore is the nodal Centre of Students' counseling and placement activities for all the constituent colleges of the university. The core activities of the Directorate of Student's Welfare are placement, higher education in domestic and abroad and Career counseling. The graduates of the university are well placed through campus interviews, job fairs, industrial visits and overseas employment unit. In the recent years students are benefited through "Green Group" member i.e. internet based global networking for Tamil Nadu Agricultural University alumini working or studying abroad for exchange of information about fellowships and assistantships or job opportunities available across the globe. For civil service examination coaching classes are being offered to graduates of the university. 23 students succeeded in the civil service exam during 2005.

Research

TNAU's significant role in conducting need based agricultural research on crop improvement, crop management, crop protection and post harvest technologies, agricultural marketing, processing, farm implements and machineries, increasing water use efficiency and water management technologies were made possible through the 10 colleges and 32 research stations.

As a result of research in the agricultural crops during the year 2005-06, two new varieties in rice and sugarcane and one new variety in wheat, tenai, redgram, soybean and sesame were released. In the horticulture crops, one new variety in each has been released in Guava and New Zealand Spinach. Besides, power tiller operated air assisted seed drill, peeler cum washer for production of white pepper, hand operated rotary type cleaner cum grader for pepper and cardamom, hand operated rotary type garbling unit for cardamom and high rate reactor for cassava starch factory effluents (Sago effluents) technologies were also developed and made available for the farming community.

The management technologies like adoptable Srivilliputtur IPM module (ASIPM) for summer irrigated and rice fallow cotton, pest-emergence management of parasitic weed *Striga Asiatica* in sugarcane, production practices for cultivation of *Capsicum* and tomato in poly house and value added cabbage were also released during the year under report.

Forecasting of prices for agricultural commodities and dissemination of market information by Domestic and Export Market Intelligence Cell (DEMIC) of the university is highly useful for the farmers and market functionaries involved in agricultural marketing. Forecasting of prices for cotton, banana, chillies, turmeric, maize, small onion, gingelly and blackgram was done to help the farmers in taking decisions regarding whether to hold (or) sell the stocks immediately after harvest for getting better prices. Also different markets offering higher prices were informed.

Extension

The Directorate of Extension Education (DEE) is primarily responsible for transfer of the latest technologies emanating from various programmes of Tamil Nadu Agricultural University to the farming community and extension personnel. Fourteen Krishi Vigyan Kendras (KVKs) functioning under the control of this Directorate organized skill oriented vocational training to farm men and women and youth in agriculture and allied fields. Training division of the directorate has conducted training to 582 officials from Agriculture and other development departments. Besides, agricultural technologies are being disseminated through Valarum Velanmai (Magazine), Tamil Nadu Agricultural University Newsletter, Audio and Video cassettes and Video CD for the benefit of farming community.

2. UNIVERSITY ADMINISTRTION

Chancellor : His Excellency the Governor of Tamil Nadu
Thiru SURJIT SINGH BARNALA

Pro-chancellor : Hon'ble Minister for Agriculture, Government of Tamil Nadu
Thiru K. Pandurangan,

Vice-Chancellor : Prof. C. RAMASAMY

Sl. No.	Designation	Name	Period	
			From	To
1.	Registrar, TNAU, Coimbatore	Dr. S.D. Sundar Singh Dr. P. Santhana Krishnan	01.04.2005 10.3.2006	10.3.2006
2.	Dean, AC&RI, Coimbatore	Dr. R. Krishnasamy Dr.K.Vanagamudi	01.04.2005 10.3.2006	10.3.2006
3.	Dean, SPGS, Coimbatore	Dr. S. Kombairaju Dr.R.Chandrababu	01.04.2005 10.3.2006	10.3.2006
4.	Dean, HC&RI, Coimbatore	Dr. E. Vadevel Dr D.Veeraragavathatham	01.04.2005 10.3.2006	10.3.2006
5.	Dean, AEC&RI, Coimbatore	Dr. R. Manian Dr.A.Sampath Raj	01.04.2005 10.3.2006	10.3.2006
6.	Dean, AC&RI, Madurai	Dr. N. Kempuchetty Dr. K. Ramamoorthy	01.04.2005 10.3.2006	10.3.2006
7.	Dean, HSC&RI, Madurai	Dr. K. Sheela	1.4.2005	31.3.2006
8.	Dean, AEC&RI, Kumulur	Dr. C.T. Devadas Dr. K.Rangasamy	1.4.2005 10.3.2006	10.3.2006

9.	Dean, AC&RI, Killikulam	Dr. T.M. Thiagarajan Dr.P.Vivekanandan	01.04.2005 10.3.2006	10.3.2006
10	Dean, HC&RI, Periyakulam	Dr. S. Anbu Dr. S. Natarajan	1.4.2005 10.3.2006	10.3.2006
11.	Dean, AC&RI, Trichy	Dr. S. Anthoni Raj Dr. S. Jebaraj	01.04.2005 10.3.2006	10.3.2006
12.	Dean, APAC, Kalavai	Dr. K. Vanangamudi	1.4.2005	10.3.2006
13	Dean, FC&RI, Mettupalayam	Prof. K.S. Neelakantan Dr.M.Ayyasamy Dr.P. Raghuram Singh	01.04.2005 28.8.2005 19.10.2005	27.8.2005 19.10.2005
14.	Director of Research, TNAU, Coimbatore.	Dr. S. Ramanathan Dr. B. Chandrasekaran	01.04.2005 10.3.2006	10.3.2006
15.	Director, SCMS, TNAU, Coimbatore	Dr. V. Murugappan Dr. S. Natarajan	01.04.2005 10.3.2006	10.3.2006
16.	Director, CARDS, TNAU, Coimbatore.	Dr. N. Raveendaran Dr.K. Palanisami	01.04.2005 10.3.2006	10.3.2006
17.	Director, CPBG, TNAU, Coimbatore.	Dr. T.S. Raveendran	01.04.2005 10.3.2006	10.3.2006
18.	Director, CPPS, Coimbatore	Dr. T. Marimuthu Dr.R.Samiyappan	01.04.2005 10.3.2006	10.3.2006
19.	Director, CPMB, TNAU, Coimbatore	Dr. K. Ramasamy Dr.P. Balasubramanian	01.04.2005 10.3.2006	10.3.2006
20.	Director, WTC, TNAU, Coimbatore	Dr. K. Palanisami Dr.M.V. Ranghaswami	01.04.2005 10.3.2006	10.3.2006

21.	Director, Planning & Monitoring, TNAU, Coimbatore	Dr.D. Veeraragavathatham Dr.R.Balasaraswathi	01.04.2005 10.3.2006	10.3.2006
22.	Director (Open and Distance Learning), TNAU, Coimbatore	Dr. V. Alagesan Dr. R. Durai	01.04.2005 10.3.2006	10.3.2006
23.	Director (Extn. Education), TNAU, Coimbatore	Dr. G. Doraiswamy Dr. E. Vadivel	01.04.2005 10.3.2006	10.3.2006
24.	Director, Students Welfare, TNAU, Coimbatore	Dr. V. Thandapani Dr.M.Thangaraju,	01.04.2005 10.3.2006	10.3.2006
25.	Controller of Exams., TNAU, Coimbatore	Dr. P. Santhanakrishnan Dr.V.Valluvaparidasan	01.04.2005 10.3.2006	10.3.2006
26.	Director, ARRI, Aduthurai	Dr. B. Chandrasekaran Dr. V.Muralidharan	01.04.2005 10.3.2006	10.3.2006
27.	Estate Officer, TNAU, Coimbatore	Er. C. Ramaraj Er. D. Kalaiselvan	01.04.2005 10.3.2006	10.3.2006
28.	Comptroller, TNAU, Coimbatore	Thiru M. Thangaraj	16.11.2005	31.3.2006

MEETINGS OF THE BOARD OF MANAGEMENT (2005-2006)

138th Meeting held on 27.06.2005 at Coimbatore Main Campus
139th Meeting held on 31.10.2005 at Coimbatore Main Campus
140th Meeting held on 09.03.2006 at Coimbatore Main Campus

IMPORTANT DECISIONS OF THE BOARD OF MANAGEMENT

138th Meeting (27.06.2005)

1. Approved for decentralizing the administration and restructuring of departments at Agricultural College & Research Institute, Killikulam
2. Approved for construction of a limited use subway near Ladies Hostel Agricultural College & Research Institute, Coimbatore by entrusting the work to the State Highways Department
3. Approved to increase the seats in B.Sc. (Horticulture) course under self-supporting Scheme from 5 to 10
4. Approved for instituting an endowment in honour of Hon'ble President of India for the annual award of prize to the best research work on Poverty Alleviation by any Ph.D., student during the year.

139th Meeting (31.10.2005)

1. Approved the construction of a Biotechnology and Bioinformatics Lab building at an estimated cost of Rs.85 lakhs.
2. Approved the purchase and installation of "Agro Processing Complex" at the Post Harvest Technology Centre, under the aid of CIDA sponsored project "Consolidation of food security in South India".
3. Approved the construction of a Guest House in the main campus by the 1969 batch B.Sc (Agri) graduates (Alumni) and having donated it to the University

140th Meeting (09.03.2006)

1. Approved in principle for strengthening of Seed Production programme in Tamil Nadu Agricultural University
2. Constituted a sub-committee to give its recommendation on the proposal for delivery of varietal technology through TNAU – Private collaboration.

CHAIRMAN AND MEMBERS OF BOARD OF MANAGEMENT

Chairman

1 Dr. C.Ramasamy, Ph.D.,
Vice Chancellor
TNAU, Coimbatore

Members

2 Thiru P. Baskaradoss, I.A.S., (upto 30.4.2005)
Agrl. Production Commissioner and Secretary to Government,
Agriculture Department,
Fort, Chennai-600 009.

Selvi. Leena Nair, I.A.S., (from 1.5.2005)
Agrl. Production Commissioner and Secretary to Government,
Agriculture Department,
Fort, Chennai-600 009.

3 Thiru K. Gnanadesikan, I.A.S.,
Secretary to Government
Finance Department,
Fort, Chennai 600 009.

4 Thiru Jag Mohan Singh Raju, I.A.S.,
Commissioner of Agriculture
Chepauk, Chennai-600005.

Thiru N. Vasudevan, I.A.S.,
Commissioner of Agriculture
Chepauk, Chennai-600005.

5 Dr. R.Baskaran, I.A.S.,
Director of Horticulture and Plantation Crops,
Chepauk, Chennai-600 005.

Th. R. Karpoorasundarapandian, I.A.S.,
Special Commissioner,
Dept. of Horticulture and Plantation Crops,
Agriculture complex, III Floor,
Chepauk, Chennai 600 005.

6 Thiru. V. Jayabalan,
Chief Engineer (Agrl. Engineering) i/c.
New No.487, Anna Salai,
Nandanam,
Chennai – 600 035.

7 Thiru J.C.Kala,I.F.S.,
Principal Chief Conservator of Forests,
Panagal Buildings, (8th Floor),
Saidapet, Chennai – 600 015.

Dr. Sukdev, I.F.S.,
Principal Chief Conservator of Forests,
No.1, Jeenis Road,
Saidapet,
Chennai 600 015.

8 Dr.J.C.Katyal,
Deputy Director General (Education),
Krishi Anusandhan Bhavan - II
IARI Campus,
PUSA, New Delhi-110012.

Dr. N. Vijayan Nair, (7.3.2006)
Director,
Sugarcane Breeding Institute,
Coimbatore 641 007.

9 Dr. S. Arulsekar,
3/33, Thiruvarur Main Road,
Manganallur Bazar Post,
PIN 609 404 (Tamil Nadu)

10 Thiru D.Ramakrishnan,
Ooruppannadi Nivas,
Kottur Malaiyandipattanam,
Pollachi, Coimbatore - 642114.

11. Rtn. PHF. R. Pandian,
Chairman & M.D.,
Orpi Group of Companies,
Raj Chambers, 978, Thadagam Road,
R.S. Puram, Coimbatore 641 002.

12 Dr. K. Balaraman,
No. 559, RMV II Stage,
Scientific Nursery Complex,
New B.E.L. Road,
Bangalore 560 094.

13 Mrs. Chinnapillai,
Organizer of Agricultural Labourers,
C/o. DHAN Foundation,
18 Pillayar Kovil Street, S.S. Colony,
Madurai 625 010.

14 Dr. S.P. Sugirthavatr..,
79/264, Lakshmanasamy Salai
K.K. Nagar,
Chennai 600 078

15 Thiru P.Chidambaram, M.L.A
No.21, Extension Street,
Rangasamudram Post,
Sathiamangalam (Taluk)
Erode Dist. 638 42.

16 Thiru A.D Jeyem Pandian
Managing Director,
Pandian Estates Private Limited
No.14, Bye Pass Main Road,
K.K.Nagar, Madurai - 625 020.

17 Thiru S. Tamil Mani
No.4, Rice Mill Road, Sungam
Ramanathapuram,
Coimbatore 641 045.

Member – Secretary

18 Dr.S.D.Sundar Singh, Ph.D., (upto 10.3.2006)
Registrar,
TNAU, Coimbatore

Dr.P.Santhana Krishnan, Ph.D., (from 10.3.2006)
Registrar, TNAU, Coimbatore

MEMBERS OF THE ACADEMIC COUNCIL
(From 1.4.2005 to 31.3.2006)

Sl. No.	Name and Designation	Period	
		From	To
Ex-officio Chairman			
1.	Dr.C.Ramasamy, Ph.D Vice-Chancellor, TNAU, Coimbatore	01.04.2005	31.03.2006
Ex-officio Secretary			
2.	Dr.S.D.Sundar Singh Registrar, TNAU, Coimbatore.	01.04.2005	10.03.2006

3.	Dr. P. Santhana Krishnan Registrar, Tamil Nadu Agricultural University, Coimbatore - 641 003.	10.03.2006	31.03.2006

Members

4.	Th. P. Baskaradoss, I.A.S. Agricultural Production Commissioner & Secretary to Government, Agriculture Department, Secretariat, Chennai – 600 009.	01.04.2005	30.04.2005
	Selvi Leena Nair, I.A.S Agricultural Production Commissioner & Secretary to Government, Agriculture Department, Secretariat, Chennai – 600 009.	01.05.2005	31.03.2006
5.	Dr.M.Achuthan Nair, Director(Academic & PG studies) Kerala Agricultural University, Vellanikkara, Tricuur-68056.	01.04.2005	31.03.2006
6.	Dr.P.G.Chengappa Director of Instruction(Agri.), Agricultural college, University of Agricultural Sciences, Bangalore-560 065.	01.04.2005	05.06.2005
7.	Dr. K.P. Rama Prasanna Director of Instruction(PGS), University of Agricultural Sciences, GKVK, Bangalore – 560 065, Karnataka.	06.06.2005	31.03.2006
8.	Dr.O.S.Kandasamy Professor and Head, Dept. of Agronomy, TNAU, Coimbatore.	01.04.2005	31.03.2006
9.	Dr.M.Ramiah Professor & Head, Department of Plant Pathology, TNAU, Coimbatore.	01.04.2005	31.03.2006

10.	Dr.P.Balasubramanian, Professor&Head, Department of Plant Molecular Biology & Biotechnology, TNAU, Coimbatore.	01.04.2005	10.03.2006
11	Dr.M.V.Rangaswami Professor & Head, Department of Soil & Water Conservation Engineering, AEC&RI, TNAU, Coimbatore.	01.04.2005	10.03.2006
	Dr.T.N.Balamohan, Professeor & Head, Department of Fruit Crops, HC&RI, TNAU, Coimbatore	01.04.2005	31.03.2006
12.	Dr.P.Banumathi, Professor& Head, Department of Food Science & Nutrition, AC&RI, Madurai.	06.06.2005	31.03.2006
13.	Dr. R. Krishnasamy Dean(Agri) , AC&RI, Coimbatore.	01.04.2005	10.03.2006
14.	Dr. S. Kombairaju (Dean(SPGS), TNAU, Coimbatore.	01.04.2005	10.03.2006
15.	Dr. E. Vadivel Dean(Hort.), HC&RI, Coimbatore.	01.04.2005	10.03.2006
16.	Dr. R. Manian Dean (Agrl. Engg.), AEC&RI, Coimbatore.	01.04.2005	10.03.2006
17.	Dr. N. Kempuchetty Dean, AC&RI, Madurai.	01.04.2005	10.03.2006
18.	Dr. T.M. Thiagarajan Dean, AC&RI, Killikulam.	01.04.2005	10.03.2006

19.	Dr. S. Anthoni Raj Dean, ADAC&RI, Tiruchirappalli.	01.04.2005	10.03.2006
20.	Dr. T. Thangaraj Dean, HC&RI, Periyakulam.	01.04.2005	10.03.2006
21.	Dr. C.T. Devadas Dean, AEC&RI, Kumulur.	01.04.2005	10.03.2006
22	Prof. K.S. Neelakantan, I.F.S., Dean(Forestry), FC&RI, Mettupalayam.	01.04.2005	27.08.2005
23.	Dr. M. Ayyasamy. Dean (Forestry) i/c. FC&RI, Mettupalayam.	28.08.2005	18.10.2005
24.	Dr. S. Raghuram Singh. Dean (Forestry), FC&RI, Mettupalayam.	19.10.2005	31.03.2006
25.	Dr.K.Sheela., Dean, Home Science College and Res. Instt., Agrl. College & Res. Instt. Campus, Madurai.	01.04.2005	31.03.2006
26.	Dr. S. Ramanathan Director of Research, TNAU, Coimbatore.	01.04.2005	10.03.2006
27.	Dr. K. Ramasamy Director, CPMB, Coimbatore.	01.04.2005	10.03.2006
28.	Dr. N. Raveendran Director (CARDS), TNAU, Coimbatore.	01.04.2005	10.03.2006
29.	Dr. G. Doraisamy Director of Extension Education, TNAU, Coimbatore.	01.04.2005	10.03.2006
30.	Dr. T. Marimuthu Director (CPPS), TNAU, Coimbatore.	01.04.2005	10.03.2006

31.	Dr. K. Palanisamy Director (WTC), TNAU, Coimbatore.	01.04.2005	10.03.2006
32.	Dr. V. Murugappan Director (SCMS), TNAU, Coimbatore.	01.04.2005	10.03.2006
33.	Dr. T.S. Raveendaran Director (CPBG), TNAU, Coimbatore.	01.04.2005	31.03.2006
34.	Dr. V. Alagesan Director of Publications, TNAU, Coimbatore	01.04.2005	10.03.2006
35.	Dr. B. Chandrasekaran Director, TRRI, Aduthurai.	01.04.2005	10.03.2006
36.	Dr. P. Santhanakrishnan, Controller of Examinations , TNAU, Coimbatore	01.04.2005	10.03.2006
37.	Dr. V. Thandapani Director of Students Welfare, Tamil Nadu Agricultural University, Coimbatore.	01.04.2005	10.03.2006
38.	Dr. B. Veeraragavathatham Director of Planning & Monitoring, Tamil Nadu Agricultural University, Coimbatore.	01.04.2005	10.03.2006
39.	Dr.K.Vanangamudi Dean, Athiparasakthi Agricultural College, Kalavai.	01.04.2005	10.03.2006
40.	Dr.K.Vanangamudi, Ph.D., Dean(Agri) , Agricultural College and Res.Institute, Tamil Nadu Agricultural University, Coimbatore – 641 003.	11.03.2006	31.03.2006
41.	Dr.R.Chandra Babu, Ph.D., Dean(SPGS), Tamil Nadu Agricultural University, Coimbatore – 641 003.	11.03.2006	31.03.2006

42.	Dr.D.Veeraragavathatham, Ph.D., Dean (Hort.), Horticultural College and Res.Institute, Tamil Nadu Agricultural University, Coimbatore - 641 003.	11.03.2006	31.03.2006
43.	Dr.A.Sampathrajan, Ph.D., Dean, Agricultural Engineering College and Research Institute, Tamil Nadu Agricultural University, Coimbatore - 641 003.	11.03.2006	31.03.2006
44.	Dr.S.Jebaraj, Ph.D., Dean, Anbil Dharmalingam Agrl. College and Res. Institute, Navalur Kuttapattu, Tiruchirapalli – 620 009.	11.03.2006	31.03.2006
45.	Dr.S.Natarajan, Ph.D., Dean, Horticultural College and Res Institute, Periyakulam – 625 604.	11.03.2006	31.03.2006
46.	Dr.K.Rangasamy, Ph.D., Dean, Agricultural Engineering College and Res. Institute, Kumulur – 621 712, Viz. Poovalur, Lalgudi Taluk, Triuchirappalli District.	11.03.2006	31.03.2006
47.	Dr. L. Nadarajan, Ph.D., Dean, Pandit Jawaharlal Nehru College of Agriculture and Research Institute, Nedungadu (Post), Karaikal – 609 603.	11.03.2006	31.03.2006
48.	Dr.B.Chandrasekaran, Ph.D., Director of Research, Tamil Nadu Agricultural University, Coimbatore – 641 003.	11.03.2006	31.03.2006

49.	Dr.R.Samiyappan, Ph.D., Director, Centre for Plant Protection Studies, Tamil Nadu Agricultural University, Coimbatore - 641 003	11.03.2006	31.03.2006
50.	Dr.S.Natarajan, Ph.D., Director, Centre for Soil and Crop Management Studies, Tamil Nadu Agricultural University, Coimbatore – 641 003	11.03.2006	31.03.2006
51.	Dr.P.Balasubramanian, Ph.D., Director, Centre for Plant Molecular Biology and Bio-technology, Coimbatore - 641 003	11.03.2006	31.03.2006
52.	Dr.K.Palanisami, Ph.D., Director (CARDS), Tamil Nadu Agricultural University, Coimbatore – 641 003	11.03.2006	31.03.2006
53.	Dr.E.Vadivel, Ph.D., Director of Extension Education, Tamil Nadu Agricultural University, Coimbatore – 641 003	11.03.2006	31.03.2006
54.	Dr.M.V.Ranghaswami, Ph.D., Director, Water Technology Centre, Tamil Nadu Agricultural University, Coimbatore- 641 003	11.03.2006	31.03.2006
55.	Dr.(Mrs.) R.Balasaraswathi, Ph.D., Director, Planning & Monitoring, Tamil Nadu Agricultural University, Coimbatore - 641 003.	11.03.2006	31.03.2006
56.	Dr.R.Durai, Ph.D., Director, Open and Distance Learning, Tamil Nadu Agricultural University, Coimbatore – 641 003.	11.03.2006	31.03.2006
57.	Dr.M.Thangaraju, Ph.D., Director, Students Welfare, Tamil Nadu Agricultural University, Coimbatore - 641 003.	11.03.2006	31.03.2006

58.	Dr.V.Valluvaparidasan, Ph.D., Controller of Examinations, Tamil Nadu Agricultural University, Coimbatore - 641 003.	11.03.2006	31.03.2006
59.	Dr.V.Muralidharan, Ph.D., Director, Tamil Nadu Rice Research Institute, Aduthurai – 612 101, Thanjavur District.	11.03.2006	31.03.2006

MEETINGS OF THE ACADEMIC COUNCIL HELD DURING 2005-2006 (AC. 98, 99, 100 and 101)

The Academic Council met twice and the following important decisions were taken.

98th Academic Council Meeting (03.05.2005)

Approved

- Amendments in the U.G. Rules 2003 to enable the students having arrear subjects to complete their degree programme beyond n+ 4 years
- Curricula and syllabi for Diploma in Agriculture & Horticulture courses and Rules & Regulations for Diploma courses.
- To accommodate five candidates from NRI category in B.Tech. (Agrl.Engg.), B.Tech (FPE) and B.Tech (EEE) degree programmes over and above the sanctioned strength.
- Post Graduate students who fulfilled minimum and residential requirements need not be insisted for 80% attendance for submitting thesis after re registration.
- Starting of Masters and P.G Diploma courses in the teaching campuses of TNAU under Distance Learning Programme.
- Admission procedure and Fee structure for the Diploma in Agriculture course offered at C.Subramanian Institute of Agriculture, Tindivanam and the draft MoU to be entered between TNAU and Various Research Institutions.
- The proposal in principle for starting of Diploma course at Agricultural Research station, Bhavanisagar on self supporting basis.

Recommended to Board of Management

- To provide 10 additional seats under State Government quota for admission in U.G.progtrammes except self financing courses over and above the sanctioned strength instead of within the sanctioned strength.

- The Recruitment policy and the proposal for increasing the admission strength of Under Graduate programmes in the Adhiparasakthi Agricultural College, Kalavai.
- Formation of Departments at Agricultural College & Research Institute, Killiculam.
- Formation of Departments at Agricultural College & Research Institute, Periyakulam.

99th Academic Council Meeting (05.07.2005)

Recommended to Board of Management

- For institution of an endowment for Rs.100.000/- for the annual award of a prize in honour of the Chief Guest of the XXVI Annual convocation.

100th Academic council Meeting (31.10.2005)

Approved

- Revised minimum eligibility marks and age limit for admission of ICAR
- Candidates in U.G. Programmes from the academic year 2005 - 06.
- Class equivalent to OGPA for UG and Masters programmes.
- Rules & Regulations, Curricula & syllabi and Fee Structure for Masters and P.G. Diploma courses under Open and Distance Learning Programme.

Recommended to Board of Management

- Permitting Adhiparasakthi Agricultural for starting of Masters programme in the disciplines of Plant Pathology and Horticulture from 2006-2007.

101st Academic Council Meeting (07.03.2006)

Approved

- Common rules for University endowments and college prizes.
- Curricula and syllabi for Diploma in Grain Processing to be offered at Paddy
- Processing Research Centre, Thanjavur.
- Introduction of External Evaluation System for Core courses of Doctoral program form the academic year 2006-2007.
- M.Sc. Bioinformatics M.Sc. Biochemical Technology and M.Tech. Microbial Technology as eligible qualification for admission to Ph.D in Bio-Technology.

- Curricula & Syllabi for B.Tech (Agrl. Engineering), B.Tech.(Food Process Engineering) and B.Tech(Energy & Environment Engineering degree programmes for 2006 batch.
- Fixing of 60 marks for theory and 40 marks for practical for B.Tech (FPE), B.Tech (EEE) and B.Tech (Ag.Engg.) degree programmes for the new syllabus 2006.

Recommended to Board of Management

- To conduct XXVII convocation of the University during May/June 2006 and a panel of names for inviting any one of them as 'Chief Guest of the convocation.
- Two names of eminent persons for conferring the Doctor of Science (Honoris Causa) in the XXVII convocation.

MEMBERS OF THE BOARD OF STUDIES OF EACH FACULTY
Board of Studies of the Faculty of Agriculture

Sl. No.	Name and Designation	Period	
		From	To
Chairman			
1.	Dean of the Faculty of Agriculture (Dean, AC&RI, Coimbatore.)	01.04.2005	31.03.2006
Members			
2.	Other Deans within the faculty of Agriculture	01.04.2005	31.03.2006
3.	Other Deans in other faculties including the Deans of Colleges affiliated to TNAU	01.04.2005	31.03.2006
4.	All Directors in the University	01.04.2005	31.03.2006
5.	Controller of Examinations, Coimbatore	01.04.2005	31.03.2006
6.	Heads of Departments of the Teaching Campuses of the respective Board of Studies(BOS of the Faculty of Agriculture)	01.04.2005	31.03.2006

Outside Experts

7.	Dr.G.Lakshmi Kantha Reddy Associate Dean, Agricultural college, Acharya N.G.Ranga Agricultural University, Bapatla – 522101.	01.04.2005	25.03.2006
8.	Dr.S.Sooriya Prakash, Professor & Head, Department of Agricultural Economics, University of Agricultural Sciences, Bangalore – 560 065.	01.04.2005	25.03.2006
9.	Dr.Anadani Gowda Director of Instruction (Seri.), Sericulture College, University of Agricultural Sciences, Chinthamani – 563 125. Karnataka.	26.03.2006	31.03.2006
10.	Dr.GSLHV Prasad Rao Associate Dean, College of Horticulture, Kerala Agricultural University, Vellanaikara , Thrissur – 680 656	26.03.2006	31.03.2006

Representatives from among Associate Professors

Members

11.	Dr.A.S.Krishnamoorthy, Associate Professor (Plant Path.), Department of Plant Pathology, TNAU, Coimbatore.	01.04.2005	25.03.2006
12.	Dr.N.K.Prabhakaran, Associate Professor(Agronomy), Central Farm Unit, TNAU, Coimbatore.	01.04.2005	25.03.2006
13.	Dr.M.Muthusamy Associate Professor, Department of Sericulture, TNAU, Coimbatore.	26.03.2006	31.03.2006

14.	Dr.P.P. Mahendran Associate Professor, Department of Soil and Environment, Agricultural College and Res. Institute, Madurai.	26.03.2006	31.03.2006

Representatives from among Assistant Professors

Members

15.	Dr.Y.S. Johnson Thangaraj Edward Assistant Professor (Agrl Entomology), Agrl. College & Research Institute, Killikulam.	01.04.2005	25.03.2006
16.	Dr. R.K. Kaleeswari Assistant Professor (SS&AC), Dept. of Soil Science and Agrl. Chemistry, Agrl. College & Research Institute, Madurai.	01.04.2005	25.03.2006
17.	Dr. R. Salvadi Eswaran Assistant Professor (Ag Economics), ADAC & RI, Trichirappalli.	01.04.2005	25.03.2006
18.	Dr. N. Senthil Assistant Professor(PB & G), Department of Millets, Centre for Plant Breeding and Genetics TNAU, Coimbatore-641 003.	01.04.2005	25.03.2006
19.	Dr.E.Kokiladevi Assistant Professor, Department of Plant Breeding and Genetics, AC&RI, Madurai.	26.03.2006	31.03.2006
20.	Dr.B.P. Gnanamalar Assistant Professor Department of Plant Breeding and Genetics, AC&RI, Madurai.	26.03.2006	31.03.2006

21.	Dr.Y.S. Johnson Thangaraj Edward Assistant Professor, Department of Plant Protection, AC&RI, Killikulam.	26.03.2006	31.03.2006
22.	Dr.A.Baskaran Assistant Professor, *Department of Crop Management* Agricultural college and Res.Institute, Trichirappalli.	26.03.2 006	31.03.2006

Board of Studies of the Faculty of Horticulture

Sl. No.	Name and Designation	Period	
		From	To
Chairman			
1.	Dean of the Faculty of Horticulture (Dean, HC&RI, Coimbatore)	01.04.2005	31.03.2006
Members			
2.	Other Dean within the Faculty(Dean, HC&RI, Periyakulam)	01.04.2005	31.03.2006
3.	Other Deans in other Faculties including the Deans of Colleges affiliated to TNAU	01.04.2005	31.03.2006
4.	All Directors in the University	01.04.2005	31.03.2006
5.	Controller of Examinations, Coimbatore	01.04.2005	31.03.2006
6.	Heads of Departments of the Teaching Campuses of the respective Board of Studies(Board of Studies of the Faculty of Horticulture)	01.04.2005	31.03.2006

Outside Experts

7.	Dr.B.Satyanarayan Reddy, Director of Instruction(Hort.), K.R.C. College of Horticulture, University of Agricultural Sciences, Arabhavi – 591310. Karnataka	01.04.2005	25.01.2006
8.	Dr.C.Ravi Sankar, Professor & Head, Department of Horticulture, Agricultural college, Bapatla – 522 110.	01.04.2005	25.01.2005
9.	Dr.P.K.Rajeevan, Associate Professor and Head. Department of Pomology and Floriculture, College Horticulture Kerala Agricultural University, Trichur -680656.	26.01.2006	31.03.2006
10.	Dr.K.Hari Babu, Principal Scientist(H), Agricultural Research Station, Anandrajupet, Kodur – 516 501 Andhra Pradesh.	26.01.2006	31.03.2006

Representatives from among Associate Professors

11.	Dr.P.Jansi Rani Associate Professor, Department of Fruit Crops, HC&RI, Coimbatore	01.04.2005	25.01.2006
12.	Dr.A.Sadasakthi, Associate Professor(Hort.), Department of Horticulture, Agricultural College and Res. Institute, Madurai.	01.04.2005	25.01.2006
13.	Dr.N.Shoba Associate Professor(Horticulture), Department of Spices and Plantation Crops, Horticultural College and Res.Institute, Periyakulam.	26.01.2006	31.03.2006

14.	Dr.A.Jaya Jasmine Associate Professor(Horticulture), Regional Research Station, Kovilangulam, Aruppukottai.	26.01.2006	31.03.2006

Representatives from among Assistant Professors

15.	Tmt. M.S. Aneesa Rani Assistant Professor, HC&RI, Periyakulam	01.04.2005	25.01.2006
16.	Th. S.Annadura Assistant Professor RRS, Paiyur.	01.04.2005	25.01.2006
17.	Th. R Venkatachalam Assistant Professor, Department of Vegetable Crops, HC&RI, Coimbatore	01.04.2005	25.01.2006
18.	Dr S.Saraswathy Assistant Professor (Hort.), Horticulture College and Res.Institute, Periyakulam	01.04.2005	25.01.2006
19.	Dr.M.GANGA Assistant Professor(Horticulture), Department of Floriculture and Landscaping, Horticulture College and Res. Institute, Coimbatore.	26.01.2006	31.03.2006
20.	Dr.V.A.Sathiamoorthy Assistant Professor(Horticulture), Department of Horticulture, Agricultural College and Res. Institute, Madurai.	26.01.2006	31.03.2006
21.	Dr.S.Easwaran Assistant Professor (Horticulture), Sugarcane Research Station, Sirugamani	26.01.2006	31.03.2006

22.	Dr.A. Beaula, Assistant Professor(Horticulture), Horticulture College and Res. Institute, Periyakulam.	26.01.2006	31.03.2006

Board of Studies of the Faculty of Home Science

Sl. No.	Name and Designation	Period	
		From	To
Chairman			
1.	Dean of the Faculty of Home Science (Dean, HSC&RI, Madurai)	01.04.2005	31.03.2006
Members			
2.	Other Deans in other Faculties including the Deans of Colleges affiliated to TNAU	01.04.2005	31.03.2006
3.	All Directors in the University	01.04.2005	31.03.2006
4.	Controller of Examinations, Coimbatore	01.04.2005	31.03.2006
5.	Heads of Departments of the Teaching Campuses of the respective Board of Studies(Board of Studies of the Faculty of Home Science)	01.04.2005	31.03.2006
Outside Experts			
6.	Dr. V. Vimala, Centre for Advanced Studies in Foods and Nutrition, College of Home Science, Acharya N.G. Ranga Agricultural University, Rajendranagar, Hyderabad – 500 030, Andhra Pradesh.	01.04.2005	31.03.2006

7.	Dr. Venkamma Gaonkar, Professor and Head, Human Development, Head, Division of Home Economics, College of Rural Home Science, University of Agricultural Sciences, Dharwad – 580 005, Karnataka.	01.04.2005	31.03.2006

Representatives from among Associate Professors

8	Dr.S.Amutha, Associate Professor, Dept. of Food Science and Nutrition, HSC&RI, Madurai - 625 104.	01.04.2005	31.03.2006
9.	Dr.P.Santhi, Associate Professor & Head, Urban Horticultural Development Centre, Chennai – 600 010.	01.04.2005	31.03.2006

Representatives from among Assistant Professors

10.	Dr.Saraswathi Easwaran Assistant Professor (Food Science & Nutrition), Dept. of Bio-Energy, CAE, Coimbatore.	01.04.2005	31.03.2006
11.	Dr. S. Kanchana, Assistant Professor(Food Science & Nutrition), Dept. of Food Science & Nutrition, HSC.&RI, Madurai	01.04.2005	02.02.2006
12.	Dr. G. Guru Meenakshi, Assistant Professor, Krishi Vigyan Kendra, Agricultural College and Res. Institute, Madurai.	03.02.2006	31.03.2006
13.	Dr.J.Pushpa, Assistant Professor(Agrl.Extension), Department of Home Science Extension, HSC.& RI, Madurai.	01.04.2005	31.03.2006

14.	Dr.A.Manjula, , Assistant Professor, Krisha Vigyan Kendra, Agricultural College & Research Institute, Madurai – 625 104.	01.04.2005	02.02.2006
15.	Dr. P. Parimalam, Assistant Professor, Krishi Vigyan Kendra, CSRC, Ramanathapuram	03.02.2006	31.03.2006

Board of Studies of the Faculty of Forestry

Sl. No.	Name and Designation	Period	
		From	To
Chairman			
1.	Dean of the Faculty of Forestry(Dean, FC&RI, Mettupalayam)	01.04.2005	31.03.2006
Members			
2.	Other Deans in other Faculties	01.04.2005	31.03.2006
3.	All Directors in the University	01.04.2005	31.03.2006
4.	Controller of Examinations, Coimbatore	01.04.2005	31.03.2006
5.	All the Heads of Departments in FC&RI, Mettupalayam	01.04.2005	31.03.2006
Outside Experts			
6.	Thiru. V.Ramkantha, I.F.S., Principal, State Forest Service College, Coimbatore – 641 002	01.04.2005	31.03.2006
7.	Dr.S.Balaji,I.F.S., Director of Environment and Member Secretary, Environment Management Agency of Tamil Nadu, Chennai – 600 015.	01.04.2005	31.03.2006

Representatives from among Associate Professors

8.	Dr.K.Kumaran, Associate Professor (Forestry), Forest College & Research Institute, Mettupalayam – 641 301.	01.04.2005	31.03.2006
9.	Dr.M.P.Divya, Associate Professor(Forestry), Forest College & Research Institute, Mettupalayam – 641 301	01.04.2005	31.03.2006

Representatives from among Assistant Professors

10.	Dr.K.T.Parthiban, Assistant Professor(Forestry), Forest College & Research Institute, Mettupalayam – 641 301.	01.04.2005	31.03.2006
11.	Dr.A. Balasubramanian, Assistant Professor(Forestry), Forest College & Research Institute, Mettupalayam – 641 301.	01.04.2005	31.03.2006
12.	Dr.I.Sekar, Assistant Professor(Forestry), Forest College & Research Institute, Mettupalayam – 641 301.	01.04.2005	31.03.2006
13.	Dr.M.Murugesh, Assistant Professor(Forestry), Forest College & Research Institute, Mettupalayam – 641 301.	01.04.2005	31.03.2006

Board of Studies of the Faculty of Agricultural Engineering

Sl. No.	Name and Designation	Period	
		From	To
Chairman			
1.	Dean of the Faculty of Agricultural Engineering(Dean, AEC&RI, Coimbatore)	01.04.2005	31.03.2006

Members

2.	Other Dean within the Faculty(Dean, AEC&RI, Kumulur)	01.04.2005	31.03.2006
3.	Other Deans in other Faculties including the Deans of Colleges affiliated in TNAU	01.04.2005	31.03.2006
4.	All Directors in the University	01.04.2005	31.03.2006
5.	Controller of Examinations, Coimbatore	01.04.2005	31.03.2006
6.	Heads of Departments of the Teaching Campuses of the respective Board of Studies (Board of Studies of the Faculty of Agricultural Engineering)	01.04.2005	31.03.2006

Outside Experts

7.	Dr. C.R. Sukumaran, Associate Dean, College of Agricultural Engineering, Bapatla, Guntur – 522 101.	01.04.2005	31.03.2006
8.	Dr. M. Chowda Gowda, Professor (Agricultural Engineering), University of Agricultural Sciences, Bangalore – 560 065.	01.04.2005	31.03.2006

Representatives from among Associate Professors

9.	Dr.P.Venkatachalam Associate Professor(Bio-energy), Department of Bio-energy, Agricultural Engineering College & Research Institute, TNAU, Coimbatore.	01.04.2005	22.12.2005
10.	Dr.V.Thirupathi Associate Professor, Department of Food and Agricultural ProcessEngineering, TNAU, Coimbatore.	23.12.2005	31.03.2006

11.	Dr.K.Rajendran Associate Professor(SWC), Department of Soil Water Conservation & Agrl. Structures, AEC&RI, Kumulur	01.04.2005	22.12.2005
12.	Dr. K. Nagarajan, Associate Professor (SWC), ADAC&RI, Trichirappalli	23.12.2005	31.03.2006
13.	Dr. S. Ganapathy, Associate Professor, Agricultural Engineering College and Research Institute, Kumulur - 621 712	26.03.2006	31.03.2006

Representatives from among Assistant Professors

14.	Dr.S.S.Sivakumar, Assistant Professor (Farm Machinery), Department of Farm Machinery, AEC&RI, Coimbatore – 641 003.	01.04.2005	22.12.2005
15.	Dr.A.Raviraj, Assistant Professor (SWC), Water Technology Centre, TNAU, Coimbatore – 641 003.	01.04.2005	22.12.2005
16.	Dr.T.Pandiyarajan, Assistant Professor (Agrl Processing) Department of Agrl. Processing & Basic Studies, AEC&RI, Kumulur – 621 712.	01.04.2005	31.03.2006
17.	Er.R.Lalitha Assistant Professor(S&WC), Department of Soil & Water Conservation Engineering, Kumulur – 621 712.	01.04.2005	22.12.2005
18.	Dr.D.Ramesh Assistant Professor(FMD), Department of Farm Machinery, Coimbatore.	23.12.2005	25.03.2006

19.	Dr.T.Senthilkumar Assistant Professor. Krishi Vigyan Kendra. Vamban. Pudukottai -622 303.	23.12.2005	25.03.2006
20.	Dr.Balaji Kannan Assistant Professor Zonal Research Centre. TNAU, Coimbatore.	23.12.2005	31.03.2006
21.	Dr. P. Subramanian. Assistant Professor. Department of Bio-Energy. Agricultural Engineering College and Research Institute. Coimbatore.	26.03.2006	31.03.2006
22.	Er. M. Saravanakumar. Assistant Professor. Dept. of Food and Agrl. Process Engg.. Agricultural Engineering College and Research Institute. Coimbatore.	26.03.2006	31.03.2006

Board of Studies for the Post-graduate Education Programmes

Sl. No.	Name and Designation	Period	
		From	To
Chairman			
1.	Faculty Dean (Post-graduate Education), Coimbatore	01.04.2005	31.03.2006
Members			
2.	Registrar, TNAU and all the Deans and Directors in all Faculties	01.04.2005	31.03.2006
3.	Controller of Examinations, Coimbatore	01.04.2005	31.03.2006

4.	All Heads of Departments offering P.G Courses Coimbatore, Madurai, Killikulam, Periyakulam, Mettupalayam & Karaikal. Deputy Registrar (Education) *Deputy Registrar (Exams)*	01.04.2005	31.03.2006
Agriculture			
5.	Dr.R.Swamiappan Professor(Plant Pathology) Department of Plant Pathology, Main Campus, Coimbatore.	01.04.2005	10.03.2006
Horticulture			
6.	Dr.S.Natarajan, Professor and Head, Dept. of Vegetable Crops, HC&RI, Coimbatore	01.04.2005	10.03.2006
Agricultural Engineering			
7.	Dr.D.Anandhakrishnan, Professor and Head, Zonal Research Centre, AEC&RI, Coimbatore.	01.04.2005	31.03.2006
Forestry			
8.	Dr.K.K.Suresh, Professor of Forestry, FC&RI, Mettupalayam.	01.04.2005	31.03.2006
Home Science			
9.	Dr.D.Malathi, Professor and Head, Dept. of Food Science & Nutrition HSC&RI, Madurai.	01.04.2005	31.03.2006

Outside Experts

10.	Dr.V.T.Raju, Professor & Head, Dept. of Agricultural Economics, Agricultural College, Bapatla, Andhrapradesh	01.04.2005	31.03.2006
11.	Dr.R.M.Nachiappan, Professor, Dept. of Agricultural Entomology, Annamalai University, Annamalai Nagar, Chidambaram.	01.04.2005	31.03.2006

BOARD OF STUDIES MEETINGS

(for the period from 1.4.2005 to 31.3.2006)

The Board of Studies Meetings conducted for different Faculties are detailed below

No.	Faculty	Date	Place
44th Meeting	Board of Studies(Agriculture)	02.05.2006	Coimbatore Campus
45th Meeting	Board of Studies(Agriculture)	01.02.2006	Coimbatore Campus
23rd Meeting	Board of Studies(Forestry)	02.02.2006	Coimbatore Campus
39th Meeting	Board of Studies (Agrl. Engg.)	29.12.2005	Coimbatore Campus
6th Meeting	Board of Studies(Home Science)	02.02.2006	Coimbatore Campus
21st Meeting	Board of Studies(P.G. Education)	02.05.2006	Coimbatore Campus
22nd Meeting	Board of Studies(P.G. Education)	01.02.2006	Coimbatore Campus

The Board of Studies of each Faculty met as detailed above and recommended the following important subjects for consideration of the Academic Council:

Board of Studies (Agriculture)

- Curricula and Syllabi for Diploma in Agriculture and Horticulture Courses and Rules and Regulations for Diploma Courses.

- To start the Diploma Course in Medicinal Plants at PAJANCOA&RI, Karaikal.
- Curricula and Syllabi for the New Diploma Course in Grain Processing to be offered at Paddy Processing Research Centre, Thanjavur.
- External Evaluation System for Diploma Courses.

Board of Studies (Home Science)

- Re-naming the B.Sc. (Home Science) Degree as B.Sc. Home Sceince (Hons.) on par with other SAUs'.

Board of Studies (Agricultural Engineering)

- Curricula and Syllabi for B.Tech. (Food Process Engineering), B.Tech. (Energy and Environmental Engineering) and B.Tech. (Agricultural Engineering) Degree Programmes for 2006 batch.
- Fixing 60 marks for Theory and 40 marks for practical for B.Tech. (FPE), B.Tech. (EEE) and B.Tech. (Agrl. Engg.) Degree Programmes for the New Syllabus 2006.
- Renaming the Dept. of Agrl. Processing of AEC&RI, Kumulur as Dept. of Agricultural Process Engineering as in AEC&RI, Coimbatore.

Board of Studies (P.G. Education)

- Fixing minimum mark criteria for awarding 'successful' in qualifying written examination and viva.
- Not to insist 80% attendance requirement for submitting thesis for those students who have fulfilled the minimum academic residential requirement for Masters and Doctoral students.
- Formation of Departments at AC&RI, Killikulam.
- Creation of Departments and changing the nomenclature of the departments at HC&RI, Periyakulam.
- Starting of the Masters and P.G. Diploma under Distance Learning (ODL) Programme.
- Selection criteria for students JRF / SRF in external funded interview.
- Introduction of External Evaluation System for Doctoral Programme from the academic year 2006-2007.
- To include M.Sc. (Bio-informatics), M.Sc. (Bio-chemical Technology) and M.Tech. (Microbial Technology) as eligible qualification for admission to Ph.D. Programme in Bio-Technology.

Recognition Committee Members

1	Registrar, TNAU, Coimbatore	CHAIRMAN
2.	Dean(Agri.), Coimbatore	MEMBER
3.	Dean(SPGS), Coimbatore	MEMBER
4.	Dean(Hort.), Coimbatore	MEMBER

5.	Dean(Agrl. Engg.), CAE, Coimbatore	MEMBER
6.	Controller of Examinations, Coimbatore	MEMBER
7.	Deputy Registrar(Administration), O/o the Registrar, Coimbatore	MEMBER

Meetings

The Recognition Committee met thrice during the year (46th to 49th Meeting) and approved the following important subjects.

- The Recognition Committee examined the applications received from the foreign nationals for admission in to Masters and Ph.D programmes of TNAU during the academic year 2005-2006 and recommended for admitting candidates.
- Recognition of Ph.D. Degree awarded by Louisiana State University, USA to Dr.A.Sankaralingam, Professor, Department of Plant Pathology, TNAU, Coimbatore as equivalent to Ph.D Degree of TNAU.

TAMIL NADU AGRICULTURAL UNIVERSITY

TWENTY-SIXTH CONVOCATION HELD ON JULY 6, 2005

The Twenty-Sixth Convocation of the Tamil Nadu Agricultural University was held on July 6, 2005 at Convocation Hall, University Campus. His Excellency Thiru Surjit Singh Barnala, the Governor of Tamil Nadu and Chancellor of Tamil Nadu Agricultural University presided. 610 candidates took the Degrees IN PERSON in the Convocation Hall and 299 Candidates took the Degree IN ABSENTIA. The details the Candidates (Discipline wise) are furnished below :

Sl.No.	Programme	IN PERSON	IN ABSENTIA
01.	Doctor of Philosophy	128	29
02.	Master of Science	193	100
03.	Bachelor of Science (Agriculture)	258	108
04.	Bachelor of Science (Horticulture)	41	16
05.	Bachelor of Science (Forestry)	13	1
06.	Bachelor of Agricultural Engineering	23	9
07.	Bachelor of Technology (FPE)	12	7
08.	Bachelor of Science (Home Science)	5	10
09.	Bachelor of Veterinary Science	1	2
	Total	674	273

A total of 52 Prizes and Medals were awarded to 39 Candidates in various Degree Programmes. During the Convocation, Dr.R.K.Sivanappan, Irrigation Consultant, Coimbatore and Thiru.S.V.Balasubramaniam, Chairman, Bannariamman Group of Companies, Coimbatore were honoured and conferred with Doctor of Science (Honoris Causa). Dr.A.P.J.Abdul Kalam, President of India had delivered the Convocation Address as Chief Guest of the Convocation.

Endowments for prizes/medals instituted

The President of India award for the best Ph.D. student for best Research work in Poverty Alleviation.

1963 batch B.Sc.(Agriculture) students' award for the best B.Sc.(Agriculture) student of the University.

Jain Irrigation award of Excellence for the best B.Tech (Hort.) student of the University.

List of students admitted and passed out during 2005-2006

The candidates selected for various Under-graduate, Post-graduate Degree Programme were approved by the Vice-Chancellor.

Under-Graduate Education

During the year under report, number of students passed out and admitted in the different Under-graduate Degree Programme are furnished below:

Campus	Name of the Degree Programme	Number of Students passed out (01.04.2005 to 31.03.2006)	Number of Students admitted 2005-2006
Coimbatore	B.Sc.(Ag)	98	97
AC&RI, Madurai	B.Sc.(Ag)	87	98
AC&RI,Killikulam	B.Sc.(Ag)	71	91
ADAC&RI,Trichy	B.Sc.(Ag)	64	75
APAC, Kalaivai	B.Sc(Ag)	48	71
APAC, Kalaivai	B.Sc.(Hort)	-	28
PAJANCOA&RI Karaikal	B.Sc.(Ag)	47	-
HC&RI, Periyakulam	B.Sc.(Hort)	49	63
AEC&RI, Kumulur	B.E.(Ag.Engg)	23	44
AEC&RI,Coimbatore	B.Tech.(FPE)	17	30
HSc.C &R.I,Madurai	B.Sc.Home Science	7	19
FC&RI, Mettupalayam	B.Sc.Forestry	17	25

AC&RI.Coimbatore	B.Tech.(EEE)	--	29
	B.Tech.Biotechology	--	36
	B.Tech. Bioinformatics	--	-
	B.Tech.(Hort)	--	19

Post-Graduate Education

Following are the number of Post-graduate Students passed out and admitted during the period under report.

Sl. No.	Discipline	Number of Students Passed out 2005-06	Number of Students admitted 2005-2006
MASTER OF SCIENCE DEGREE PROGRAMME – M.Sc. COIMBATORE CAMPUS			
I.	**M.Sc.(Agriculture)**		
01.	Agronomy	4	10
02.	Plant Breeding and Genetics	10	13
03	Agricultural Entomology	6	9
04.	Soil Science and Agrl. Chemistry	8	8
05.	Agricultural Economics	9	9
06.	Agricultural Extension	9	6
07.	Agricultural Microbiology	4	7
08.	Seed Science and Technology	5	5
09.	Crop Physiology	2	4
10	Plant Pathology	5	13
11.	Plant Nematology	4	--
II.	**M.Sc.(Horticulture)**	7	--
III.	**M.E.(Agriculture)**		
01.	Engineering	-	-
02.	Farm Power and Machinery	4	4
03.	Soil and Water Conservation	3	3
04.	Bio-Energy	4	--
05.	Agricultural Processing	5	12
IV.	**Master of Business Management**	12	30
V.	**M.Sc.(Bio-technology)**	20	27
VI.	**M.Sc.(Environmental Sciences)**	7	10
VII	**M.Sc.(Bioinformatics)**	--	5

VIII	**M.Sc.Biochemical Technology**	--	4
IX	**M.Sc.Microbioal Technology**	-	10
X	**M.Sc (Meteriology)**	--	2
XI	**M.Sc.(Sericulture)**	2	3
MADURAI CAMPUS			
I.	**M.Sc.(Agriculture)**		
01	Agronomy	2	4
02	Plant Breeding and Genetics	3	6
03	Agricultural Entomology	5	5
04	Soil Science and Agrl. Chemistry	3	4
05	Agricultural Microbiology	3	4
06	Agricultural Economics	-	3
07	Agricultural Extension	2	3
08	Plant Pathology	1	
09	Crop Physiology	-	-
II.	**M.Sc.(Food Science and Nutrition)**	5	6
III.	**M.Sc.(Horticulture)**	10	7
KILLIKULAM CAMPUS			
I.	**M.Sc.(Agriculture)**		
01	Agronomy	5	
02	Plant Breeding and Genetics	5	
03	Agricultural Entomology	2	
04	Soil Science and Agrl. Chemistry	2	
05	Agricultural Economics	-	-
06	Agricultural Extension	3	-
PERIYAKULAM CAMPUS			
I.	**M.Sc.(Horticulture)**	8	
METTUPALAYAM CAMPUS			
I.	**M.Sc.(Forestry)**	5	
PAJANCOA & RI, KARAIKAL CAMPUS			
01	Agronomy	3	
02.	Plant Breeding and Genetics	3	
03.	Soil Science and Agrl. Chemistry	4	
04	Horticulture	5	
05	Agrl.Economics	-	
06	Agrl.Entomology	-	

DOCTOR OF PHYLOSOPHY – Ph.D.

COIMBATORE CAMPUS

I.	**Faculty of Agriculture**		
01.	Agronomy	6	3
02.	Plant Breeding and Genetics	11	5
03.	Agricultural Entomology	8	4
04.	Soil Science and Agrl. Chemistry	4	3
05.	Agricultural Extension	5	3
06.	Agricultural Microbiology	3	3
07.	Crop Physiology	4	3
08.	Seed Science and Technology	10	-
09.	Plant Pathology	10	3
10.	Agricultural Economics	3	3
12.	Environmental Sciences	3	3
13.	Plant Nematology	1	1
II.	**Faculty of Horticulture**	10	13
III.	**Faculty of Bio-technology**	8	8
IV.	**Faculty of Forestry**	3	1
V.	**Faculty of Agricultural Engineering**		
01.	Farm Power and Machinery	3	2
02.	Soil and Water Conservation	4	3
03.	Bio-Energy	3	22
04.	Agricultural Processing	1	

MADURAI CAMPUS

I.	**Faculty of Agriculture**		
01.	Agronomy	4	-
02.	Plant Breeding and Genetics	7	-
03.	Agricultural Entomology	3	-
04.	Plant Pathology	1	-
05.	Soil Science and Agrl. Chemistry	2	-
II.	**Faculty of Home Science**		
01.	Food Science and Nutrition	5	5

Vice-Chancellor's tour

- Attended the presentation meeting of the progress of Tamil Nadu precision Farming Horticulture Project being implemented in Dharmapuri and Krishnagiri Districts at Old Conference Hall, Secretariat, Chennai on 5th April, 2005.

- Participated in the Graduation Day of the Diploma Programme fror Agricultural Input Dealers on 8th May 2005.

- Reviewed the curricula, and placement activities at Agricultural College and Research Institute, Madurai and presided over the 22nd Lighting Ceremony of Home Science College and Research Institute, Madurai on 18th May 2005.

- Reviewed the curriculum and placement activities at Anbil Dharmalingam Agricultural College and Research Institute, Trichy on 1st June 2005.

- Minister of Tamil Nadu graced the function as Chief Guest and delivered the Special Address. The Honourable Minister for Agriculture offered felicitations.

- Entrance Exam for PG admission 2005-06 was held on 21st June 2005 and the selection list was released on 29th June 2005. The 1st Year PG programme will commence on 11th July 2005.

Visited the following Centres / Stations / Departments and reviewed the activities:

Sl.No.	Centre/Station	Date
1.	Tapioca and Castor Research Station, Yethapur	11th May 2005
2.	Horticultural Research Station, Ooty	1st June 2005
3.	Krishi Vigyan Kendra , Sandhiyur	3RD June 2005
4.	Rice Research Station, Tirur	8th June 2005
5.	Horticultural Research Station, Pechiparai	15th June 2005

- Had discussion with the World Bank Team on Supply and Chain Project at Dharmapuri on 11th May 2005.

- Visited Agricultural Research Station, Virinjipuram and had discussion with Professor and Head and staff on 3rd September 2005.

- Attended the Advisory Board Meeting of ABSP II at Coonoor on 21st September 2005 and presented a paper on Cultivation and Commercialization of Transgenic Crops in India and progress on ABSP II Socio Economic Impact Studies.

- Participated in the Field Day function and interacted with staff and also visited Farmers Fields at Aduthurai on 24th September 2005.

* Had discussion with the Project Coordinator on KVKs at Bangalore on the issues related to strengthening the activities of new KVKs on 6th August 2005.

* Met His Excellency the Governor of Tamil Nadu and Chancellor, Tamil Nadu Agricultural University on 3rd September 2005 and invited His Excellency for the Farmers Day 2005.

* Attended the meeting at State Planning Commission, Chennai and the Expo 2005 exhibition preliminary meeting convened by the Commissioner of Agriculture, Chennai on 26th September 2005.

* Had discussion with the Agricultural Production Commissioner and Secretary to Government Agriculture Department Chennai on 14th July 2005 and 17th August 2005.

* Attended the meeting on Rainfed Farming at Chennai organized by the Commissioner of Agriculture on 18th July 2005.

* Had discussion with the Honourable Minister for Agriculture on 17th August 2005 at Chennai.

* Inaugurated Kovai Flower Show held at TNAU during Jan 27-28, 2006.

* Attended Agricultural Seminar on Naveena Velanmai Karutharangu and Farmers Meet at Somanur on 7.2.2006.

* Attended the meeting GAP on Mango and Formation of Mango Growers Federation at Coimbatore on 21.2.2006.

* Presided the State Level Awareness Programme on Scientific Coconut Cultivation in Special Emphasis on Integrated Pest and Disease Management and Inaugurated the Biocontrol Agents Mass Production Programme at Coconut Research Station, Aliayarnagar on 23.2.2006.

* Inaugurated the Silver Jubilee Function at the ARS, Aruppukottia on 3.3.2006.

* ICAR winter School on Strategies for Production, Processing and Development of Bio fuels was held at FC&RI, Mettupalayam from 1.12.2005.

* Seminar on Nutrient Management in Horticultural Crops, was organized at HC&RI, Periyakulam on 10.12.2005.

* The National Seminar on Better Packaging for Better Foods at Home Science College and Research Institute, Madurai was held during 28-30th December 2005.

* Attended 93rd Indian Scie4nce Congress – "Centenary of Agricultural Education in the Sub-continent" Hyderabad on 7.1.2006.

- Participated in the Food Processing Seminar at State Planning Commission, Chennai on 17.1.2006 and presented a paper on Investment opportunities in Food Processing Industries

- Participated in the Brain Storming Session on Strategic Measures for Making Indian Plantation Crops Sector Globally Competitive at Kasargod on 30.1.2006

- Inaugurated the National Seminar on Production, Processing and Marketing at Aloe vera" at HC&RI, Periyakulam on 11.2.2006

- Participated in the meeting on Knowledge Initiative on Agriculture (KIA) Board at New Delhi on 2.1.2006

- Had discussion with the Member Secretary, State Planning Commission, Chennai on 10.1.2006

- Participated in the Indo US Universities Conference at Chennai on 12.1.2006 and 13.1.2006

- Participated in the Pongal Vizha held at Central farm, TNAU, Coimbatore on 15.1.2006

- Had discussion with Canadian officials, regarding CIDA project at Bangalore on 18.1.2006

- Participated in the Vice-Chancellors Conference at Raj Bhavan, Chennai on 28.1.2006

- Attended 2nd Board Meeting of Indo US Knowledge Initiative on Agriculture (KIA) at Delhi on 13.2.2006 and 14.2.2006.

Foreign Visit

- Myself along with Dr.R.Chandra Babu, Professor of Biotechnology and Dr.K.N.Selvaraj, Associate Professor (Agrl.Economics) visited the University of Queensland (UQ), Brisbane and Commonwealth Scientific and Industries Research Organization (CSIRO), Canberra, Australia during May 22-27, 2005 for discussion on a project "improving Drought and Saline Tolerance in Cereals and Their Impact on Socio economic conditions of the Farmers in the Fragile Environments and for collaboration in research and teaching.

- Attended the International Conference on Synergy in Development 2005. Higher Education Partnerships Building networks of knowledge and Practice, organized by ALO and USAID at Washington DC and delivered an address on "Progress through Partnership" during the inaugural session and visited the International Food Policy Research Institute at Washington Also visited Cornell University, Ithaca and had discussion with faculty and presented a paper on Current Trends in Indian Agriculture"

Foreign Training / Meeting / Conference attended by Scientist of TNAU from 01.04.2005 to 31.03.2006

S. No	Name of the Scientist and Designation	Purpose and Place	Period
1.	Dr.S.Santhanabosu, Professor (SWC), AEC&RI., Kumulur A4/1750/2003 Dt.10.1.2005	Training "Consolidation of Food Security in South India" at McGill University, Canada	20.1.2005 to 19.7.2005
2.	Dr.P.Venkatachalam, Assoc. Professor (Bio-Ene) Dept. of Bio-Energy, AEC&RI., Coimbatore A4/1750/2003 Dt.10.1.2005	Training "Consolidation of Food Security in South India" at McGill University, Canada	20.1.2005 to 19.7.2005
3	Dr.R.Viswanathan, Professor (Agrl.Micro), Dept. of Food and Agrl. Processing Engineering, AEC&RI., Coimbatore A4/2981/2005 Dt.25.2.2005 A4/2981/2005 Dt.21.6.2005	to undergo training under ALO project on "Estt of Centre for Post Harvest Biology and Food Qualify for India for the 21st Century" at the University of California, USA To attend ALO conference at Washington	From 14.3.2005 To 31.8.2005 From 14.3.2005 To 31.8.2005
4.	Dr.N.O.Gopal, Assoc.Prof.(Agrl.Micro), Dept. of Bio-Energy, AEC&RI., Coimbatore A4/2981/2005 Dt.25.2.2005	to undergo training under ALO project on "Estt of Centre for Post Harvest Biology and Food Qualify for India for the 21st Century" at the University of California, USA	From 14.3.2005 To 31.8.2005
5.	Dr.J.Prem Joshua, Assoc.Prof.(Horti), HRS., Pechiparai A4/2981/2005 Dt.25.2.2005	to undergo training under ALO project on "Estt. of Centre for Post Harvest Biology and Food Qualify for India for the 21st Century" at the University of California, USA	From 14.3.2005 To 31.8.2005
6.	Dr.K.Uma, Asst.Prof. (ARM), Dept.of Agrl.& Rural Mgt, Coimbatore A4/2981/2005 Dt.25.2.2005	to undergo training under ALO project on "Estt. of Centre for Post Harvest Biology and Food Qualify for India for the 21st Century" at the University of California, USA	From 14.3.2005 To 31.8.2005

7.	Dr.V.Thirupathi, Assistant Prof.(Agrl.Processing), Dept.of Food & Agrl.Process Engineering, TNAU, Coimbatore No.A4/2981/2004, dt.25.2.2005	To undergo training under ALO project on "Estt. of Centre for Post Harvest Biology and Food Qualify for India for the 21st Century" at the University of California, USA	From 14.3.2005 To 31.8.2005
8	Dr.V.K.Parthiban, Asst.Prof.(Pl.Pathology), Dept.of Plant Pathology, Coimbatore A4/2981/2005 Dt.25.2.2005	to undergo training under ALO project on "Estt. of Centre for Post Harvest Biology and Food Qualify for India for the 21st Century" at the University of California, USA	From 14.3.2005 To 31.8.2005
9.	Dr.K.Ponnuswamy, Professor(Agronomy), Dept.of Millets, Cbe A4/3382/2005 Dt.1.3.2005	Training on "Rice Production" at IRRI., Philippines	07-18, March, 2005
10	Dr.M.Muthuraman, Prof.(Agrl.Entomology), Dept.of Agrl.Entomology, TNAU, Coimbatore No.A4/2095/2005, dt.14.3.2005	To participate in the International Course on "Modern apicultural management: Honey, By products and pollination" at Israel	From 29.03.2005 To 19.04.2005
11.	Dr.S.Rajendran, Professor(Entomology), SRS, Cuddalore No.A4/2966(i)/2004, dt.15.3.2005	To participate Conference on Area-wide Control of Insect Pests: Integrating the Sterile Insect and Related Nuclear and other Techniques" at Austria.	09-13, May, 2005
12.	Dr.V.M.Duraisamy, Professor(Farm Machinery), Zonal Research Centre, TNAU, Coimbatore No.A4/1750/ 2005, dt.24.3.05	Short term training at McGil University, Canada	From Six Months 01.04.2005
13.	Dr.S.Kulanthaisami, Associate Professor(Physics), Dept.of Bio-Energy, TNAU, Coimbatore No.A4/1750/2005, dt.24.3.05	Short term training at McGil University, Canada	From Six Months 01.04.2005

14.	Dr.M.Chandrasekaran, Prof. & Head, Dept.of Agrl. Economics, Coimbatore A4/2599/2005 dt.04.04.2005	to Participate in the "Asia and Near East Regional Workshop on Global Horticulture Assessment" at Cairo, Egypt	From 12-14 April, 2005
15.	Dr.R.Chandra Babu, Professor, Dept.of Plant Molecular Biology, Coimbatore No.A4/3172, dt.4.5.2005	The research project proposal "Improving drought and saline tolerance in cereals and their impact on socio-economic conditions of farmers in fragile ecosystems" at Perth, Australia	From 23-27, May, 2005
16.	Dr.K.N.Selvaraj, Associate Professor, Dept.of Agrl.Economics, Coimbatore No.A4/3285/2005, dt.4.5.2005.	The research project proposal "Improving drought and saline tolerance in cereals and their impact on socio-economic conditions of farmers in fragile ecosystems" at Perth, Australia	From 23-27 May, 2005
17.	Dr.S.Mohankumar, Associate Professor, Dept.of Plant Molecular Biology and Biotechnology, Coimbatore. No.A4/3469/2005, dt.16.5.2005	To participate in the Annual Progress Review Meeting for IPM CRSP to be held at the Horticulture Research Centre of the Bangladesh	From 23-26 May, 2005
18.	Dr.S.Robin, Assoc.Prof(PB&G), Dept.of Rice, Coimbatore No.A4/4108/2005, dt.11.6.2005	To participate in the workshop on "Writing Quality Project Proposals: Connecting Agricultural Scientists, Stakeholders and donors" at Kuala Lumpur.	From 19-24, June, 2005
19.	Dr.R.Chandra Babu, Professor, Dept.of Plant Molecular Biology&Biotechnology, TNAU,Coimbatore. No.A4/2096/2005, dt.25.5.2005	To participate in the Workshop on "Writing quality project proposals-Connecting Agricultural Scientists, Stakeholders and Donors" at Kuala Lumpur, Malaysia	From 19-24, June, 2005
20.	Dr.A.Raviraj, Asst.Professor(SWCE), Directorate of WTC., Coimbatore A4/2935/2005 Dt.21.04.2005	to participate in the 5th International Symposium on "Management of Aquifer Recharge" at Berlin, Germany	from 11-16 June, 2005

21.	Dr.T.M.Thiyagarajan, Dean AC&RI, Killikulam No.A4/3070/2005, dt.27.4.05	To participate in the workshop on "Water and Rice chapter of the Comprehensive Assessment of Water Management in Agrl. Writers" at IRRI, Philippines	From 06-10 June
22.	Dr.S.Kombairaju, Dean(SPGS), TNAU, Coimbatore No.A4/3902/2005, dt.6.6.2005	To participate in the Executive Development Programme on "Food and Agri Business Management Programme" at New York	From 13-24, June, 2005
23.	Dr.P.Vennila, Assoc.Professor(Home Science) Dept of Apparel Designing and Fashion Technology, HSC&RI.,Madurai No.A4/1750/2005 dt.30.6.05	Training at McGill University, Canada under project "Consolidation of Food Security in South India"	Six months from July, 2005
24.	Dr.K.N.Selvaraj, Assoc.Professor, Dept.of Agrl.Economics, Coimbatore A4/4879/2005 dt.20.07.05	Workshop on the Quantitative Methods for Policy Analysis at Sri Lanka	25-29, July, 2005
25.	Dr.J.S.Kennedy, Associate Professor (Agrl.Entomology), Dept.of Agrl.Entomology, Cbe No.A4/3345/2005, dt.23.5.2005	To permit to visit Catholic University of Louvain, Belgium under revisit programme.	Period of three months from July, 2005
26.	Dr.M.Chandrasekaran, Professor and Head, Dept.of Agrl.Economics, TNAU, Cbe No.A4/3015, dt.21.4.2005	Project on "Supply Chain Management on Fruits and Vegetables in Tamil Nadu"- Visit of TNAU Scientists to MSU, USA.	15 days during July/August
27.	Dr.K.Rajamani, Assoc.Prof. (Horticulture), Dept.of Floriculture and Landscaping, TNAU, Cbe No.A4/3015, dt.21.4.2005	Project on "Supply Chain Management on Fruits and Vegetables in Tamil Nadu"- Visit of TNAU Scientists to MSU, USA.	15 days during July/ August
28.	Dr.K.N.Selvaraj, Associate Professor, Dept. of Agrl.Economics, Coimbatore A4/4909/2005 dt.25.07.2005	Workshop on "Intellectual Property and Technology and Socio-economic Impact Assessment" at Dhaka, Bangladesh	09-12, August, 2005

29.	Dr.C.Udayasoonan, Professor Dept.of Environmental Sciences, TNAU, Coimbatore No A4/4111/2005, dt 13.6.2005	To attend the International Pulp and Paper Conference 2005 for presentation of his Research article at Kuala Lumpur, Malaysia	From 16-18, August, 2005
30.	Dr.S.Mahendran, Prof.&Head, KVK, Ramanathapuram No.a4/3139/2004 dt.26.10.2004	To participate in the Interdrought –II International Conference on "Intergrated approaches to sustain and improve plant production under drought stress" at Italy	24-28 September, 2005
31.	Dr.S.K.Ganesh, Prof.&Head ARS, Vaigai Dam No.A4/3139/2004 dt.26.10.2004	To participate in the Interdrought –II International Conference on "Intergrated approaches to sustain and improve plant production under drought stress" at Italy	24-28 September, 2005
32.	Dr.S.Robin, Prof.(Agrl.Bot), Dept of Rice, Coimbatore No.A4/3139/2004 dt.26.10.2004	To participate in the Interdrought –II International Conference on "Intergrated approaches to sustain and improve plant production under drought stress" at Italy	24-28 September 2005
33.	Dr.K.N.Selvaraj, Assoc.Prof.(Agrl.Bot), ARS, Paramakudi, No.A4/3139/2004 dt.26.10.2004	To participate in the Interdrought –II International Conference on "Intergrated approaches to sustain and improve plant production under drought stress" at Italy	24-28 September 2005
34.	Dr.P.Jeyaprakash Asst.Prof.(Agrl.Bot), ARS, Paramakudi No.a4/3139/2004 dt.26.10.2004	To participate in the Interdrought –II International Conference on s"Intergrated approaches to sustain and improve plant production under drought stress" at Italy	24-28 September, 2005
35.	Dr.L.Mahalingam, Asst.Prof.(Agrl.Bot), CSRC, Ramanathapuram, No.A4/3139/2004 dt.26.10.2004	To participate in the Interdrought –II International Conference on "Intergrated approaches to sustain and improve plant production under drought stress" at Italy	24-28 September, 2005

36.	Dr.R.Krishnasamy, Dean (Agri), AC & RI., Coimbatore No.A4/4599/2005 dt.13.7.05	The 3rd International Symposium and XV International Plant Nutrition Colloquium at Wuhan and Beijing, China	10-19, September, 2005
37.	Dr.N.Manikanda Boopathi, Assistant Professor, Dept.of PMB&B.,Coimbatore A4/4123/2005 dt.20.07.05	Training on "plant Genetic Diversity Analysis and Marker-Assisted Breeding" at Thailand	From 20.8.2005 To 04.09.2005
38.	Dr.N.Manikanda Boopathi, Assistant Professor, Dept.of PMB&B., Coimbatore A4/4123/2005 dt.20.07.05	International Drought-II Conference at Rome, Italy	24-28, September, 2005
39.	Dr.S.Gurumurthy, Professor and Head, ARS., Paramakudi A4/4846/2005 dt.25.07.2005	International Drought-II Conference at Rome, Italy	24-28, September, 2005
40.	Dr.P.Vivekanandan, Professor, Dept.of PB&G., AC&RI.,Madurai A4/4846/2005 dt.25.07.2005	International Drought-II Conference at Rome, Italy	24-28, September, 2005
41.	Dr.G.Selvaraj, Professor, Dept. of AE&RS.,Coimbatore A4/4846/2005 dt.25.07.2005	International Drought-II Conference at Rome, Italy	24-28, September, 2005
42.	Dr.S.Gurumurthy, Professor and Head, ARS., Paramakudi A4/4846/2005 dt.25.07.2005	International Drought-II Conference at Rome, Italy	24-28, September, 2005
43.	Dr.M.R.Backiyavathy, Assistant Professor (SS&AC), Dept.of Forage Crops,Coimbatore A4/5030/005 dt.04.08.2005	To present her research paper in the International Conference on Human Impacts on Soil Quality Attributes at Isfahan University of Technology, Iran	12-16, September, 2005

44.	Dr.B.Chandrasekaran, Director, TRRI., Aduthurai A4/5252/2005 dt.09.08.205	To deliver lecture on "Water use efficiency in rice production" in the International Seminar at Tsukuba, Japan and also present his research paper in the Conference at Tokyo, Japan	05-09, September, 2005
45.	Dr.P.Balasubramanian, Professor and Head, Dept.of PMB&B ,Coimbatore A4/5251/2005 dt.09.08.2005	To attend Review Meeting at Philippines	08-09, September, 2005
46.	Dr.N.Kumar, Professor(Hort), HC & RI., Periyakulam A4/5078/2005 dt.09.08.2005	To present his research paper in the 15th International Plant Nutrition Colloquium at Beijing, China	14-18, September 2005
47.	Dr.K.Palanisami, Director, Water Technology Centre, Coimbatore A4/5497/2005 dt.23.08.2005	56th International Congress on Irrigation and Drainage (ICID), at Beijing, China	From 10-18, September, 2005
48.	Dr.D.Veeraraghavathatham Director, Planning & Monitoring, Coimbatore A4/5251/2005 dt.02.09.2005	To participate in the Review Meeting at Los Banos, Philippines	From 07-10, September, 2005
49.	Thiru.S.Srinivasan, Teaching Assistant, NPRC., Vamban A4/5863/2005 dt.12.09.2005	To present his research paper in the Inter Drought-II Conference, in Rome, Italy	24-28, September, 2005
50.	Dr.S.Suresh, Prof. (Agrl.Ento), Dept.of Rice, Coimbatore A4/6066/2005 dt.19.09.2005	To participate in Regional Scoping workshop Meeting at Colombo, Sri Lanka	23-26, September, 2005
51.	Dr.Subbalakshmi Lokanathan, Assoc.Professor(Agry), Dept.of Rice,Coimbatore A4/4723/2005 dt.16.09.2005	To attend a training on "Rice Production" at IRRI., Philippines	19-30, September, 2005

52.	Dr.K.Ilamurugu, Professor (Agrl.Micro), O/o the Dean, AC&RI.,Coimbatore A4/4723/2005 dt.16.09.2005	To attend a training on "Rice Production" at IRRI., Philippines	19-30, September, 2005
53.	Dr.S.D.Sivakumar, Assoc.Prof. (ARM), Dept.of ARM, Cbe No.A4/3911/2005,dt.7.6.2005	To participate in the team for the preparation of the paper on "Banana Processing Industries in India" at Philippines	From 26-30, September, 2005
54	Dr.A.Nirmalakumari, Assoc.Prof.(PB&G), Dept.of Millets, Coimbatore No.A4/3761/2005, dt.6.6.2005	To participate in the 15th International Plant Nutrition colloquium to be held at Beijing, China.	From 14-19, September, 2005
55	Dr.N.Raveendran, Director, CARDS.,Coimbatore A4/6200/2005 dt.30.09.2005	To visit markets in Singapore, Malaysia and Thailand under the scheme on "Domestic and Export Market Intelligence Cell"	10-12 days during October, 2005
56	Dr.K.N.Selvaraj, Associate Professor, Dept.of Agrl.Economics,Coimbatore A4/6413/2005 dt.04.10.2005	To attend in the International Conference at Nanchang, China	17-22, October, 2005
57	Dr.K.Panalisami, Director, WTC, Coimbatore A4/6503/2005 dt.13.10.2005	To participate in the Tsukuba Asian Seminar on Agricultural Education at Tsukuba, Japan	08-14, November, 2005
58.	Dr.P.Shanmugasundram, Professor, Dept.of PMB&B., Coimbatore A4/6553/2005 dt.18.10.2005	To attend the 3rd International Rice Functional Genomics Symposium at IRRI., Philippines	20-23, November, 2005
59.	Dr.S.Robin, Associate Professor, Dept.of Rice, Coimbatore A4/6642/2005 dt.24.10.2005	To attend the 5th International Rice Genetic Symposium and 3rd International Rice Functional Genomics Symposium at IRRI., Philippines	20-25, November, 2005

60.	Dr.N.Raveendran, Director, CARDS., Coimbatore A4/6200/2005 dt.24.10.2005	To visit markets in Singapore, Malaysia and Thailand under the scheme "Domestic and Export Market Intelligence Cell"	For a period of 12 days during November-December, 2005
61.	Dr.M.Jawaharlal, Professor and Head, Dept.of Floriculture and Landscaping, Coimbatore A4/6200/2005 dt.24.10.2005	To visit markets in Singapore, Malaysia and Thailand under the scheme "Domestic and Export Market Intelligence Cell"	For a period of 12 days during Nov-December, 2005
62.	Dr.R.Thamizh Vendan, Associate Professor, ADAC&RI., Trichy A4/6518/2005 dt.24.10.2005	To participate in the International Symposium on Biotechnology-Challenges in the 21st Century at Bangkok, Thailand	02-03, November, 2005
63.	Dr.K.Bhuvaneswari, Assistant Professor, Post Harvest Technology, Coimbatore A4/1750/2003 dt.27.10.2005	To attend Training under the project "Consolidation of Food Security in South India" at McGill University, Canada	For six months from 15.11.2005
64.	Dr.R.Balasubramanian, Assoc.Professor, Dept.of Agrl.Economics, Coimbatore A4/6149/2005 dt.23.09.2005	To participate in the Workshop in Abdus Salam International Centre for Theoretical Physics, in Trieste, Italy	20-23, November, 2005
65.	Dr.S.Manonmani, Associate Professor, Dept.of Rice, Coimbatore	To participate in the 5th International Rice Genetics Symposium, 3rd International Symposium and also training on the area of hybrid rice and quality rice breeding at IRRI., Philippines	From 25.11.2005 to 04.12.2005
66.	Dr.S.Rajeswari, Assistant Professor, Dept.of Rice, Coimbatore	To participate in the 5th International Rice Genetics Symposium, 3rd International Symposium and also training on the area of hybrid rice and quality rice breeding at IRRI., Philippines	From 25.11.2005 to 04.12.2005

67	Dr.R Umarani, Associate Professor, Dept.of Seed Science and Technology, Coimbatore A4/6686/2005 dt.28.10.2005	To participate in the training on "IRRI Leadership Course for Asian Women in Agriculture R & D" at IRRI., Philippines	07-18, Novembe., 2005
68	Dr S Jeyarani, Assistant Professor, Dept of Agrl.Entomology. CBE A4/6786/2005 dt.28.10.2005	To participate in the 17th Annual Congress, PGIA, at Sri Lanka	24-25, November, 2005
69	Dr G Selvaraj, Professor and Head, Dept of Agrl Extension and Rural Sociology, Coimbatore A4/6719/2005 dt 31.10 2005	To participate in the Bio Thailand 2005:Biotechnology Challenges in the 21st Century at Thailand	02-05, November, 2005
70.	Dr.A Raviraj, Associate Professor, WTC , Coimbatore A4/6717/2005 dt 28.10.2005	To take up the Consultancy Service to facilitate Asian Development Bank, Philippines as a Consultant to the Intermediation of Sugar sector project in Fiji Islands	From 04.11.2005 to 08.12.2005 21 days on duty rest of the days on eligible leave
71	Dr R K Kaleeswari, Associate Professor, Dept of Agronomy, Coimbatore A4/6888/2005 dt 9 11 2005	To participate in the First International Symposium on the Management of Tropical Sandy Soils for sustainable Agriculture at Khon Kaen, Thailand	From 27.11.2005 to 02.12.2005
72.	Dr.P Balasubramanian, Prof & Head, Dept of PMB&B , Coimbatore A4/6927/2005 dt.11.11.2005	To attend 5th International Rice Genetics Symposium and 3rd International Rice Functional Genomics Symposium at Maniala, Philippines	From 20-23, November, 2005
73	Dr.R Chanra Babu Professor Dept.of PMB&B , Coimbatore A4/6927/2005 dt.11.11.2005	To attend 5th International Rice Genetics Symposium and 3rd International Rice Functional Genomics Symposium at Maniala, Philippines	From 20-23, November, 2005

74.	Dr.M.Maheswaran, Professor, Dept.of PMB&B., Coimbatore A4/6927/2005 dt.11.11.2005	To attend 5th International Rice Genetics Symposium and 3rd International Rice Functional Genomics Symposium at Maniala, Philippines	From 20-23, November, 2005
75.	Dr.R.Jagannathan, Professor and Head, Dept.of Agricultural Meteorology, TNAU, Coimbatore. No.A4/3344/2005, dt.23.5.2005	To participation in the workshop on "Advanced Workshop on the Application of Climatic Resources in Agriculture" to be held at Israel	From 31.10.2005 To 11.11.2005
76.	Dr.D.Sudhakar, Associate Professor, Dept.of PMB&B., Coimbatore A4/6927/2005 dt.11.11.2005	To attend Golden Rice Network,5th International Rice Genetics Symposium and 3rd International Rice Functional Genomics Symposium, at Maniala, Philippines	From 16-23, November, 2005
77.	Dr.M.Ramanathan, Professor, Dept.of Food & Agrl.Process Engineering, Coimbatore A4/5308/2005 dt.16.08.2005	To participate and present his research paper in the Fuel Cell Seminar at California, USA	14-18, November, 2005
78.	Dr.R.Manian, Dean, AEC&RI., Coimbatore A4/6882/2005 dt.07.11.2005	To participate in the International Agricultural Engineering Conference at Bangkok, Thailand	06-09, December, 2005
79.	Dr.V.M.Duraisamy, Professor, Zonal Research Centre, Coimbatore A4/6882/2005dt.07.11.2005	To participate in the International Agricultural Engineering Conference at Bangkok Thailand	06-09, December, 2005
80.	Dr.K.R.Ashok, Assoc.Professor, Dept.of Agrl.Economics,Coimbatore A4/5999/2005 dt.14.09.2005	To participate in the Seventh Annual Conference of SANEI in Islamabad Pakistan	From 22-23, December, 2005
81.	Dr.K.Kathirvel, Professor and Head, Dept of Farm Machinery, Coimbatore A4/1750/2003 dt.27.10.2005	To attend Training under the project "Consolidation of Food Security in South India" at McGill University, Canada	For six months from December, 2005

82.	Dr.R Balasubramanian, Associate Professsr, Dept of Agrl.Economics, Coimbatore A4/7501/2005 dated 07.12.2005	To attend training workshop on "Advances Course in Econometrics for Environmental Economists in Sri Lanka" at Colombo, Sri Lanka.	09-12, Decembe:, 2005
83.	Dr.G.Pushpa, Professor(Home Science) Post Harvest Technology Centre, AEC&RI., Coimbatore A4/1750/2003 dated 20.12.2005	To attend Training under the project "Consolidation of Food Security in South India" at McGill University, Canada	For six months from December, 2005
84.	Dr.M.V.Rangaswamy,, Professor and Head, Post Harvest Technology, Coimbatore A4/1750/2003 dt.27.10.2005	To attend Training under the project "Consolidation of Food Security in South India" at McGill University, Canada	For six months from December, 2005
85.	Dr.D.Suresh Kumar, Associate Professor, HC&RI., Periyakulam No.A4281/2005 dt25.11.2005	To attend SNDEE Workshop at Sri Lanka	06-18, December, 2005
86.	Dr.D.Suresh Kumar, Associate Professor, HC&RI., Periyakulam No.A4/7095/2005 dt.18.11.2005	To attend and present his research proposal in the Seventh Annual Global Development Conference at Russia	19-21, January, 2006
87.	Dr.K.Ponnuswamy, Professor(Agronomy), Dept.of Agronomy, Coimbatore A4/0072/2006 dated 16.01.2006	5th Australian Sorghum conference, 2006 at Australia	From 30th January to 2nd February 2006
88.	Dr.V.Murugappan, Director, CSCMS., Coimbatore A4/0431/2006 dated 20.01.2006	To attend Annual Fertilizer and Lime Research Centre Workshop at New Zealand	From 08-09, February, 2006
89.	Dr.A.Lakshmanan, Associate Professor, Dept.of Environmental Sciences, Coimbatore A/588/2006 dated 06.02.2006	To visit International University College of Technology TWINTECH, Malaysia for delivering special lecture at Malaysia	From 18-7, February, 2006

Details of Post Doctoral Fellowship undergone by the scientist from 01.04.2005 to 31.03.2006

S. No	Name of the Scientist and Designation	Purpose and Place	Period
1.	Dr.B.Nagamani, Asst.Professor(Micro), ADAC&RI, Trichy.	To undergo PDF in Universidad Autonoma de Coahuila, Mexico	Five years from 15.6.2001 to 14.6 2006 eligible leave
2.	Dr.G.Kalaichelvan, Asst.Professor(Ag.Micro AC&RI, Killikulam	To undergo PDF in Universidad Autonoma de Coahuila, Mexico	Three years from 01 6 2002 to 30.6.2005 eligible leave
3.	Dr.S.Mahimairaja, Assoc.Professor(SS&AC) Dept. of Environmental Sciences, Cbe A4/8310/2002 dt.9.7.2003	PDF research on "The Enigma of Phytoremediation The Green Technology for Remediating Contaminated Soils" at Massey University, New Zealand	For two Years From 21.07.2003 to 20.07.2005 leave to which he is eligible
4.	Dr.P.Jayamani, Asst.Professor(PB&G) Dept.of Pulses, Cbe A4/4837/2003 dt.1.10.2003 and 08.12.2005	PDF Research on "Utilization of Molecular Markers" at the Institute of Biological and Experimental Technology, Portugal	For two years From 06.02.2004 and extension for three months from 06.02.2006 leave to which he is eligible
5.	Dr.S.Nakkeeran, Asst.Professor(Pl Path) Dept.of Oil Seeds, Cbe A4/87(I)/2004 dt.23.3.2004	PDF research on" Management of diseases of Canola" at University of Manitoba, Canada	For one year from 15.04.2004 to 14.04.2005 and extended up to 20.05.2005 leave to which he is eligible
6.	Dr.K.Subrahmaniyan, Asst.Prof.(Agronomy), RRS, Vridhachalam No.A4/1178/2004 dt.17.8.2004	PDF Research in the field of Agronomy under Chinese Government Scholarship 2004-2005 at zhojiang University P.R.China.	For one year from 01.09.2004 to 15.07.2005 eligible leave

7.	Dr M.Raveendran, Assistant Professor(PB&G), Dept of Plant Molecular Biology and Biotechnology, Coimbatore No A4/3273/2004 dt.8.11.2004 and 01.12.2005	PDF Research on "Genetic and Physiological analyses of mutants and germplasm" at IRRI, Philippines	11 months From 15.11.2004, from 15.10.2005 to 31.01.2006, 01.02.2006 to 31.07.2006 and 01.08.2006 to 15.11.2006 on eligible leave
8	Dr V Paranidharan, Asst.Professor (Pl.Path) Department of Millets, Coimbatore No A4/3579/2004 dt 14.12.2004	PDF research on "Functional genomics: Metabolomics of resistance in wheat against fusarium head blight" at McGill University, Canada	For First year From 03.01.2005 to 02.01.2006 leave to which he is eligible For Second Year From 03.01.2006 to 02.01.2007
9	Dr N Senthil Asst Prof.(PB&G), Dept of Millets, TNAU, Coimbatore No A4/1847/2005 dt 16.3.2005	To undergo PDF Programme on "Comparative mapping and rice-barely synteny studies" at NIAS, Tsukuba, Japan	For one year From 01.04.2005 leave to which he is eligible
10	Dr R Selvaraju, Assoc.Professor, Dept of Agrl.Meteorology, Coimbatore No.A4/2787/2005 Dt.11.4.2005	To undergo PDF as part of joint research programme to accomplish the climate application research at ADPC, Bangkok, Thailand.	First year from April, 2005 as duty second year as leave to which he is eligible.
11	Dr.R.Mathiyazhagan, Asst.Professor(Agro), Dept.of Agronomy, Coimbatore No.A4/4323/2005 dt.28.6.2005 And 31.07.2006	To undergo Post Doctoral Research Associate ship-Internship in Bioxcel Corporation, USA	One year from August, 2005 on EOL on loss of pay Further periodof one year from 01.08.2006 on

3. EDUCATION

3.1 Post Graduate Education

Totally 29 courses offered in PG Education

Agricultural College & Research Institute, Tamil Nadu Agricultural University, Coimbatore 3

A. Post Graduate Course (Agriculture) M.SC. (Ag) Courses

1. Agricultural Economics
2. Agricultural Entomology
3. Agricultural Extension
4. Agricultural Microbiology
5. Agronomy
6. Crop Physiology
7. Plant Breeding & Genetics
8. Plant Nematology
9. Plant Pathology
10. Seed Science & Technology
11. Soil Science & Agrl. Chemistry
12. Agrl. Meteorology
13. Bio chemical Technology
14. Bioinformatics
15. Biotechnology
16. Environmental Sciences
17. Sericulture
18. Microbial Technology
19. Masters of Business Administration

B. Agricultural Engineering College and Research Institute, Coimbattore- 3.

1. Bio energy
2. Farm Power and Machinery
3. Agrl. Processing
4. Soil & Water Conservation

(C) Horticultural College & Research Institute, Coimbatore 3.

Masters Programme in (Horticulture)

1. Fruit Science
2. Spices and Plantation Crops
3. Floriculture and Medicinal Plants

(D) Forest College & Research Institute, Mettupalayam

Masters Programme – (Forestry)

Forestry

(E) Agricultural College & Research Institute, Tamil Nadu Agricultural University, Madurai - 625 104

1. Agricultural Entomology
2. Agricultural Microbiology
3. Agronomy
4. Plant Breeding & Genetics
5. Soil Science & Agrl Chemistry
6. Agricultural Extension
7. Plant Pathology
8. Vegetable Sciences

(F) Home Science College & research Institute, Madurai

M.Sc. Programme - Food Science & Nutrition

(G) Horticultural College & Research Institute, Periyakulam

M.Sc. - Horticulture Fruit Science

(H) PG Diploma courses

1. Organic Farming
2. Capital and Commodity markets

Ph.D. Programme in offered in Tamil Nadu Agricultural University, Coimbatore- 3

A. Ph.D. programme

1. Agricultural Economics
2. .Agricultural Entomology
3. Agricultural Extension
4. Agricultural Microbiology

5. Agronomy
6. Biotechnology
7. Crop Physiology
8. Environmental Sciences
9. Plant Breeding & Genetics
10. Plant Nematology
11. Plant Pathology
12. Seed Science & Technology
13. Soil Science & Agrl. Chemistry

B. Horticultural College & Research Institute, Coimbatore

1. Vegetable Science
2. Fruit Science
3. Spices and Plantation Crops
4. Floriculture and Medicinal Plants

C. Agricultural Engineering College & Research Institute, CBE- 3.

1. Bio energy
2. Farm Power and Machinery
3. Agrl. Processing
4. Soil & Water Conservation

D. Agricultural College & Research Institute, Madurai

1. Agronomy
2. Soil Science & Agrl. Chemistry
3. Plant Pathology
4. Plant Breeding & Genetics
5. Agrl. Entomology

E. Forest College & Research Institute, Mettupalayam

1. Forestry

F. Home Science College & Research Institute, Madurai

1. Food Science & Nutrition

Ph.D. students strength for the year 2005-06 and 2006-07 batch

Faculty	2005-06 year	2006-07 year
Agriculture	50	56
Horticulture	14	16

Agrl. Engineering	10	13
Forestry	3	2
Home Science	4	4
Total	81	91

Campus wise Ph.D students strength

Faculty	2005-06 year	2006-07 year
Coimbatore	66	74
Madurai	12	15
Mettupalayam	3	2
Periyakulam	-	-
Total	81	91

M.Sc. students strength for the year 2005-06

Faculty	2005-06 year
Agriculture	208
Horticulture	34
Agrl. Engineering	19
Forestry	12
Home Science	6
Total	279

M.Sc. Self supporting - 66

Campus wise M.Sc students strength

Campus	2005-06
Coimbatore	217
Madurai	42
Mettupalayam	12
Periyakulam	8
	279

Scholarship distributed to PG students (2005-06)

Sl.No.	Name of the scholarship	No. of Students	Amount
1.	ICAR	100	3773411
2.	CSIR	26	2008208
3.	UGC	5	391348
4.	ICCR	3	345085
5.	SC/ST Post Metric	31	412420
6.	SC/ST Higher Education Special Loan	21	147000
7.	Univ. of PUNE	3	131200
8.	BC Scholarship	53	117900

9.	MBC	3	12524
10.	Govt. of Kerala	1	40407
11.	Award of Prize money	5	21000
12.	Super spinning mills	1	1933
13.	MS Swaminathan Foundation	1	11880
14.	National Renewable Energy	3	133601
15.	Aspee	3	10200
16.	TNSC & ST	2	10000
17.	ICSSR	1	10000
18.	TN Chief Minister Farmers Security Scheme	67	414000
19.	IOCL	2	48000
20.	TNET	2	8000
21.	TNAU Merit	20	400000
22.	TNAU Research Assistantship	10	450000
23.	Periyar Endowment	0	0
23.	KIADEF	2	40000
	TOTAL	**365**	**8938117**

Award of student Fellowship

Sl.No.	Department	Name of the scheme	JRF/ SRF	Month & Year
1.	HRS, Ooty	Evaluating of effect of dolomite, lime and magnesium on carnation sulphate	JRF (1 No.)	April 05
2.	Environmental Sciences	TNPL, Scheme	SRF (1)	June 05
3.	Soil Science	IRRI aided scheme	JRF (1)	June 05
4.	Microbiology	-do -	- do -	- do -
5.	Agronomy AC&RI, Madurai	MGP Herbal care Pvt.Ltd., scheme	JRF (1)	July 05
6.	SS&AC	RSVY sceme	SRF (4)	August 05
7.	Environmental Sciences	Seshasayee Paper endowment scheme	SRF (1)	September 05
8.	SS&AC	Sakthi Sugars scheme	SRF (1)	December 05
9.	Pathology	E.I. Dupont India ltd scheme	SRF (1)	December 05
10.	Entomology	Mahamaya scheme	SRF (2)	December 05
11.	Environmental Sciences	Sakthi Sugars scheme	SRF (1)	January 06
12.	Environmental Sciences	Dharani sugars	JRF (1)	January 06

13.	Environmental Sciences	Bannari Amman Sugars	JRF (1)	January 06
14.	Crop Physiology	M/s. Coromendal Fertilisers Ltd.	SRF (2)	February 06

Meetings organized Conducted 21st PG Board of studies on 02.05.2005

PG admission

Admission process for Masters and doctoral programme for 2005-06 started during June 05. Masters programme commenced on 11.7.2005 and for doctoral programme on 1.9.2005

Permission given to PG students to attend Seminar/ other institute

Discipline	Date	Place	Purpose Related
I Ph.D. Agronomy students (5 Nos.)	14.11.2005 to 19.11.2005	Jain Irrigation system Ltd., Jalgaon	Ph.D., course schedule
II M.Tech Food & Agrl. Processing Students	9-10 December 05	Bangalore	To attend ICF 05 and Food Plus 2005

Foreign students particulars 2005-06 batch

S.No.	Degree	Department	Country	Name of the student
1.	M.Sc.	Plant Breeding & Genetics	Vietnam	Tran Thuy Van
2.	M.Sc.	- do -	Vietnam	Do Thi Nigoc Anh
3.	Ph.D.	Soil Science & Agrl. Chemistry	Sri Lankan	Punitha Peramanadaraju
4.	Ph.D.	Agrl. Extension	Sri Lankan	V.S. Sidhakaran

3.2 Under Graduate Education

3.2.1. Agricultural College and Research Institute, Coimbatore

1. Admission Strength - Degrees

B.Sc. (Agriculture) & B Tech. (Agrl Biotech) Students admission details for year 2005-2006

Sl. No.	Degrees	General			Self supporting			Total		
		Boys	Girl	Total	Boys	Girl	Total	Boys	Girl	Total
1	B Sc (Agri)	38	46	84	8	3	11	46	49	95
2	B Sc (Horticulture)	31	37	68	0	1	1	31	38	69
3	B Sc (Forestry)	17	2	19	7	0	7	24	2	26
4	B Tech (Agrl Engg)	29	20	49	-	-	-	29	20	49
5	B Sc (Home Science)	7	13	20	-	-	-	7	13	20
6	B Tech (Agrl Biotech)	-	-	-	25	14	39	25	14	39
7	B Tech (Horticulture)	-	-	-	8	14	22	8	14	22
8	B Tech (FPE)	-	-	-	11	19	30	11	19	30
9	B Tech (EEE)	-	-	-	14	15	29	14	15	29
10	B Sc (Agri) Pajancoa	25	22	47	-	-	-	25	22	47
11	B Sc (Agri) APAC	15	20	35	-	-	-	15	20	35
12	B.Sc (Hort) APAC	19	2	21	-	-	-	19	2	21
	TOTAL	181	162	343	73	66	139	254	228	482

2. Categories wise admission

B.Sc. (Agriculture)

Sl. No.	Categories	General			Self supporting			Total		
		Boys	Girl	Total	Boys	Girl	Total	Boys	Girl	Total
1	OC	0	2	2	0	1	1	0	3	3
2.	BC	15	22	37	1	1	2	16	23	39
3	MBC	5	10	15	-	-	-	5	10	15
4.	SC	10	9	19	7	1	8	17	10	27
5.	ST	1	0	1	-	-	-	1	0	1
6.	ICAR Quota	7	3	10	-	-	-	7	3	10
	Total	**38**	**46**	**84**	**8**	**3**	**11**	**46**	**49**	**95**

B.Sc. (Horticulture)

Sl. No.	Categories	General			Self supporting			Total		
		Boys	Girl	Total	Boys	Girl	Total	Boys	Girl	Total
1.	OC	0	2	2	-	-	-	0	2	2
2.	BC	10	19	29	0	1	1	10	20	30
3.	MBC	11	3	14	-	-	-	11	3	14
4.	SC	9	11	20	-	-	-	9	11	20
5.	ST	1	1	2	-	-	-	1	1	2
6.	ICAR Quota	0	1	1	-	-	-	0	1	1
	Total	**32**	**35**	**57**	**0**	**1**	1	**32**	**36**	**69**

B.Sc. (Forestry)

Sl. No.	Categories	General			Self supporting			Total		
		Boys	Girl	Total	Boys	Girl	Total	Boys	Girl	Total
1.	OC	-	-	-	-	-	-	-	-	-
2.	BC	6	1	7	3	0	3	9	1	10
3.	MBC	6	0	6	3	0	3	9	0	9
4.	SC	4	1	5	1	0	1	5	1	6
5.	ST	-	-	-	-	-	-	-	-	-
6	ICAR Quota	1	0	1	-	-	-	1	0	1
	Total	**17**	**2**	**19**	**7**	**0**	7	**24**	**2**	**26**

B.Tech. (Agrl. Engg.)

Sl. No.	Categories	General			Self supporting			Total		
		Boys	Girl	Total	Boys	Girl	Total	Boys	Girl	Total
1.	OC	1	0	1	-	-	-	1	0	1
2.	BC	10	11	21	-	-	-	10	11	21
3.	MBC	9	5	14	-	-	-	9	5	14
4.	SC	7	4	11	-	-	-	7	4	11
5.	ST	1	0	1	-	-	-	1	0	1
6.	ICAR Quota	1	0	1	-	-	-	1	0	1
	Total	**29**	**20**	**49**	-	-	-	**29**	**20**	**49**

B.Sc. (Home Science)

Sl. No.	Categories	General			Self supporting			Total		
		Boys	Girl	Total	Boys	Girl	Total	Boys	Girl	Total
1.	OC	-	-	-	-	-	-	-	-	-
2.	BC	0	5	5	-	-	-	0	5	5
3.	MBC	3	2	5	-	-	-	3	2	5
4.	SC	4	6	10	-	-	-	4	6	10
5.	ST	-	-	-	-	-	-	-	-	-
6.	ICAR Quota	-	-	-	-	-	-	-	-	-
	Total	**7**	**13**	**20**	-	-	-	**7**	**13**	**20**

B.Tech. (Agrl. Biotech.)

Sl. No.	Categories	Self supporting			Others			Total		
		Boys	Girl	Total	Boys	Girl	Total	Boys	Girl	Total
1.	OC	-	-	-	2	0	2	2	0	2
2.	BC	8	8	16	5	1	6	12	10	22
3.	MBC	6	1	7	1	0	1	7	1	8
4.	SC	3	3	6	-	-	-	3	3	6
5.	ST	-	-	-	1	0	1	1	0	1
6.	ICAR Quota	-	-	-	-	-	-	-	-	-
	Total	17	12	29	**9**	**1**	10	**25**	**14**	39

B.Tech. (Horticulture)

Sl. No.	Categories	Self supporting			Others			Total		
,		Boys	Girl	Total	Boys	Girl	Total	Boys	Girl	Total
1.	OC	-	-	-	1	1	2	1	1	2
2.	BC	2	8	10	1	0	1	3	8	11
3.	MBC	1	2	3	0	1	1	1	3	4
4.	SC	1	2	3	-	-	-	1	2	3
5.	ST	-	-	-	1	1	2	1	1	2
6.	ICAR Quota	-	-	-	-	-	-	-	-	-
	Total	**4**	**12**	**16**	**3**	**3**	6	**7**	**15**	**22**

B.Tech (FPE)

Sl. No	Categories	General			Self Supporting			Total		
		Boys	Girl	Total	Boys	Girl	Total	Boys	Girl	Total
1	OC	0	2	2	0	1	1	0	3	3
2	BC	6	9	15	-	-	-	6	9	15
3	MBC	2	4	6	-	-	-	2	4	6
4	SC	3	3	6	-	-	-	3	3	6
5	ST	-	-	-	-	-	-	-	-	-
6	ICAR Quota	-	-	-	-	-	-	-	-	-
	Total	**11**	**18**	**29**	**0**	**1**	1	**10**	**19**	**30**

B.Tech. (EEE)

Sl. No	Categories	General			Self Supporting			Total		
		Boys	Girl	Total	Boys	Girl	Total	Boys	Girl	Total
1	OC	1	1	2	-	-	-	1	1	2
2	BC	6	6	12	-	-	-	6	6	12
3	MBC	6	3	9	-	-	-	6	3	9
4	SC	1	5	6	-	-	-	1	5	6
5	ST	-	-	-	-	-	-	-	-	-
6	ICAR Quota	-	-	-	-	-	-	-	-	-
	Total	**14**	**15**	**29**	**-**	**-**	-	**14**	**15**	**29**

B.Sc. (Agri .) PAJANCOA & RI

Sl. No	Categories	General			Self Supporting			Total		
		Boys	Girl	Total	Boys	Girl	Total	Boys	Girl	Total
1.	OC	-	-	-	-	-	-	-	-	-
2.	BC	6	12	18	-	-	-	6	12	18
3.	MBC	9	4	13	-	-	-	9	4	13
4.	SC	8	6	14	-	-	-	8	6	14
5.	ST	2	0	2	-	-	-	2	0	2
6.	ICAR Quota	-	-	-	-	-	-	-	-	-
	Total	**25**	**22**	**47**	**-**	**-**	-	**25**	**22**	**47**

B.Sc. (Agri.) APAC

Sl. No.	Categories	General			Self Supporting			Total		
		Boys	Girl	Total	Boys	Girl	Total	Boys	Girl	Total
1.	OC	-	-	-	-	-	-	-	-	-
2.	BC	2	2	4	-	-	-	2	2	4
3.	MBC	6	3	9	-	-	-	6	3	9
4.	SC	8	13	21	-	-	-	8	13	21
5.	ST	0	1	1	-	-	-	0	1	1
6.	ICAR Quota	-	-	-	-	-	-	-	-	-
	Total	**16**	**19**	**35**	**-**	**-**	**-**	**16**	**19**	**35**

B.Sc. (Hort.) APAC

Sl. No.	Categories	General			Self Supporting			Total		
		Boys	Girl	Total	Boys	Girl	Total	Boys	Girl	Total
1.	OC	-	-	-	-	-	-	-	-	-
2.	BC	2	0	2	-	-	-	2	0	2
3.	MBC	2	1	3	-	-	-	2	1	3
4.	SC	15	1	16	-	-	-	15	1	16
5.	ST	-	-	-	-	-	-	-	-	-
6.	ICAR Quota	-	-	-	-	-	-	-	-	-
	Total	**19**	**2**	**21**	**-**	**-**	**-**	**19**	**2**	**21**

3. Students strength for year 2005-2006

B.Sc. (Agriculture)

Sl.No.	Years	Admitted students numbers		
		Boys	Girls	Total
1.	I Year	49	55	104
2.	II Year	28	54	82
3.	III Year	50	68	118
4.	IV Year	41	57	98
	Total	168	234	402

B.Tech. (Agrl. Biotech.)

Sl.No.	Years	Admitted students numbers		
		Boys	Girls	Total
1.	I Year	24	14	38
2.	II Year	24	12	36
3	III Year	11	7	18
4.	IV Year	6	14	20
	Total	65	47	112

4. Scholarship details for the year 2005-2006

Sl.No.	Scholarship details	Scholarship amount Rs. (1 Year)	Total Number of students
1.	SC / ST Scholarship	72/620	40
2.	MBC First Graduate	1/76/098	31

5. ICAR, Junior Research Fellowship (Details for passed students)

Sl.No.	Subjects	Passed out the students		
		Scholarship	Admitted	Total
1.	Entomology	One	-	One
2.	Plant Genetic Resources	One	-	One
3.	Soil Science	-	One	One
4.	Agrl. Extension	-	One	One
		Two	Two	Four

6. Educational awards and medals participating student for year 2005-2006

Sl.No.	Awards / Medals	Years	Name of the students
	Nil		

7. Educational Tour for year 2005-2006

B.Sc. (Agriculture)

Sl. No.	Tours	Years	Places	Yearwise	Number of students
1.	All India Study Tour 2005 – 2006	2005 – 2006	IARI, New Delhi PAU Ludhiana Remote sensing Institute, Forest College & Research Institute,	2002-2003 Batch	98

	[27.8.2005 to 12.9.2005]		Dehradun Rajasthan Agricultural University Potato Research Station, Kufri Horticultural University, Solan CRIDA, NAARM, MANAGE, DRR & ICRISAT

B.Tech. (Agrl. Biotech.)
ABT.221 Short Study Tour (0+1)

Sl. No.	Tours	Years	Places	Yearwise	Number of students
1.	Short Study tour [29.8.2005 to 9.9.2005]	2005-2006	Coimbatore Visit to different biotech institutes at Hosur 1. Grow more Biotech. 2. Natural Remedies 3.bioinformatics institute. Leaving to Bangalore and stay at Bangalore Visit to Metahelix Stay at Bangalore Visit to 1. Monsanto biotech lab 2. UAS, NCBS 3. TIFR Stay at Bangalore Visit to CFTRI. Defense Research Lab. Stay at Bangalore Visit to 1; I.I.Sc. Hyderabad Visit to 1. NIN 2.CDFD, Stay at Hyderabad Visit to 1. CCMB 2.IICT Stay at Hyderabad Visit to ICRISAT, Stay at Hyderabad	2004-2005	36

			Visit to 1. Mahyco Research foundation 2. Shantha Biotech stay at Hyderabad Visit to 1. DRR, 2.DOR, 3. CRIDA stay at Hyderabad Hyderabad , Coimbatore		

B.Tech. (Agrl. Biotech.)

ABT.441 BWE (Biotechnology Work Experience)

Sl. No.	Tours	Years	Places	Yearwise	Number of students
1.	Biotechnology Work Experience [June 8th to August 6th 2005]	2005-2006	Jain Institute of Vocational and Advanced Studies, Bangalore Rasi seeds, Attur, Salem Avasthagen, Bangalore Bangalore Genei, Bangalore, Mahyco, Hyderabad Metahelix, Bangalore SPIC, ABC, Coimbatore Anna University, Chennai	2002-2003	20

B.Tech. (Agricultural Biotech.)

Sl. No.	Tours	Years	Places	Yearwise
1.	Study Tour [14.9.2005 – 30.9.2005]	2005-2006	Coimbatore, Pune visit to NCL, Stay to Pune National centre for cell sciences, Bioinformatic Institute, Pune Visit to Syngenta Research farm Visit to Mahyco Research farm Mumbai visit to BARC Stay to Mumbai Visit to TATA Institute of fundamental Research New Delhi stay	

			National Plant Genomics Institute, Centre for Biochemical technology, JNU, Stay at New Delhi Visit to biotech park at Sitapura, jaipur, Visit to Vatika Biotech, Agra Visti to NRC, IARI Visit to DNA fingerprinting, NBPGR, Dept. of Plant Molecular Biology, ICGEB University of Delhi, south campus Stay at new delhi Lucknow visit to BRI, CIMAP Visit to central drug research institute, stary at Lucknow		

10. The sports day and students win the prizes year of 2005-2006

S. No	Sports / games	Organizer	Place and Date	Win the students	Win the no
1.	Table Tennis		Coimbatore Inter collegiate Athletic Association (9th September to 11th September 2005)	M Srinidhi N Deepti S.Senbagapriya	Second Second Second
2.	Tennis		Coimbatore Inter collegiate Athletic Association (9th September to 11th September 2005)	S Senbagapriya J.Salini M Srinidhi N.Deepti	First First First First
3.	Basket Ball	7th All India Inter Agri Inter University Sports and Games meet 2006	23-27 February 2006 MPUAT udaipur	Barry Daniel R.Rajasekar A.Vaitheeswaran V.Jayanth T.Jayakumar	Second Second Second Second Second
4.	4 x 100 mtrs relay	7th All India Inter Agri.	23-27 February 2006 MPUAT Udaipur	H.Mohana M.S.Senbagavalli M.Srinidhi	Second Second Second
5.	Long Jump			M.Srinidhi	Second
6.	High jump			M.Srinidhi	Second

11. Students function for the year of 2005-2006

S. No	Dates	Function Name	Inaugurated	Chief guest
1.	23.8.2005	Club day	Dr.R.Krishnasamy Dean (Agriculture)	
2.	6.1.2006 & 7.1.2006	Muthamizh vizha	Dr.C.Ramasamy, Vice Chancellor	Th.Nellai Kannan Paa. Vijay Th.M.Ramachandran
3.	20.1.2006	Cultura' 2006	Dr.C.Ramasamy, Vice Chancellor	
4.	1.9.2005	Steve's Gym power team	Dr.R.Krishnasamy Dean (Agriculture)	
5.	2.10.2005	Siruthuli Padhayathirai		
6.	19.10.2005	Consumer club		Mr.P.Saravanan, Advocate, Chennai
7.	5.3.2006	Hostel day		

12. Diploma in Agriculture

C.Subramaniam Institute of Agriculture, Tindivanam

Students sanctioned strength = 50

Admitted : Boys = 33
Girls = 17

Total 50

Date of Commencement 25.7.2005

3.2.2. Agricultural College and Research Institute, Madurai

1. Students' admission - Course wise

S. No.	Name of the course	General			Self Finance Scheme			Total		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1.	B.Sc. (Ag.)	52	46	98	-	-	-	52	46	98

CLUB DAY

MUTHAMIL VIZHA

NOYYAL PADHYATHIRAI

2. Students' admission - Community wise

S. No	Community	General			Self Finance Scheme			Total		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1	General	4	2	6	-	-	-	4	2	6
2	BC	16	17	33	-	-	-	16	17	33
3	MBC	13	13	26	-	-	-	13	13	26
4	ST	1	1	2	-	-	-	1	1	2
5	SC	12	11	23	-	-	-	12	11	23
6	ICAR	6	1	7	-	-	-	6	1	7
7	Others	-	1	1	-	-	-	-	1	1
	Total	**52**	**46**	**98**	-		-	**52**	**46**	**98**

3. Details on students studying during the year 2005-06

S. No.	Year	No. of students studying		
		Boys	Girls	Total
	B.Sc (Agri)			
1.	I Year	52	46	98
2.	II Year	40	49	89
3.	III Year	42	41	83
4.	IV Year	63	35	98
5.	M.Sc(Ag.)	18	17	35
6.	Ph.D	4	4	8
	Total	4	4	8

4. Details of various Scholarships paid to the students for M.Sc. & Ph.D.

S. No.	Name of the Scholarship	Year	Amount	Course of study	Name of the student
1.	Adi-dravidar Welfare scholarship (GOI)	2005-06	9,277	I M.Sc. (Ag.)	S. Manoharan
				"	P. Thangasamy
				"	A. Muthulakshmi
				"	V. Ashokumar
				"	M. Palanimurugan
				"	G. Revathy
				"	M. V. Revathy
				"	I. Kalaiselvi
				"	K. Lilly
				"	K. Shunmugavel
				"	R. Anushya
				"	M. Muthusamy
			9,158	"	A. Selvakumar
				"	P. Umamaheswari
				"	P. Shyamsundar
				"	M. Chelldurai
				"	M. Jeyabharathi
				"	P. Balamurali

				Ph.D.	M. Paramasivan
2.	Adi-Dravidar Higher Education Special Scholarship	2005-06	7,000	M.Sc. (Ag.)	R. Muthukrishnan
				"	M. Lilly
				"	I. Kalaichelvi
				"	M. Muthusamy
				"	M. Palanimurugan
				"	V. Ashokkumar
				"	P. Thangasamy
				"	S. Manoharan
				"	M. Jeyabharathi
				"	A. Selvakumar
				Ph.D.	M. Chelladurai
				"	K. Elanchezhian
3.	BC & MBC Scholarship	2005-06	2,305	M.Sc. (Ag.)	R. Gokila
				"	K. Ragu
				"	V. Karthik
				"	C. Selvi
				"	E. Allirani
				"	T. Sonairaja
			2,165	"	S. Sathiya
				"	T. Allirani
			2,815	"	C. Balamurugan
				"	C. Ciba
				"	A. Ravikumar
				"	P. Kumar
				"	A. Muthukrishnan
				"	S. Utharasu
				"	M. Sudha
				"	P. Veeramani
				"	V. Anbukarasi
				"	K. Sujatha
				"	V. Janakiraman
				"	P. Vadivelan
			2,815	Ph.D.	K. Suresh
4.	Chief Ministers Farmer Security Scheme Scholarship	2005-06	6,000	M.Sc. (Ag.)	M. Sathiyaraj
					M. Palanimurugan
					K. Shunmugavel
					P. Thangasamy
					M. Chelladurai
					A. Selvakumar
					P. Kumar
					V. Janakiraman
					V. Karthik
					I. Kalaiselvi
					T. Sonairaja
					C. Balamurugan
					S. Utharasu
					K. Ragu
					A. Ravikumar
					P. Balamurali

				Ph.D.	K. Suresh
					M. Paramasivan
					M. Gnanasekaran
5.	CSIR Fellowship	2005-06	194933	Ph.D	S. Muthuramu
					P. Yogameenakshi
6.	ICAR Fellowship	"	147936	M.Sc. (Ag.)	S. Sivakumar
					M. N. Karthik
7.	UGC Fellowship	"	100666	Ph.D.	M. Gnanasekaran
8.	Aspee Foundation Senior Fellowship	"	12500	Ph.D.	D. Kanjana
9.	KIADEF Scholarship	"	19419	M.Sc. (Ag.)	M. Daniel Jebaraj
10.	TNAU Merit Scholarship	"	10000	M.Sc. (Ag.)	D. Jebapreetha
11.	TNAU Research Assistantship	"	15000	Ph.D.	S. Chitra
					Thanga Hemavathy
12.	Chikkammal – Kamala PG (SS&AC) Scholarship	"	6500	M.Sc. (Ag.)	R. Vengatesan

4. Details of scholarship for the year 2005-2006

S. No.	Name of the Scholarship	Amount of Scholarship Rs. / Year	No. of the students benefited
1.	BC & MBC Scholarship	939820	222
2.	Adi-Dravidar Welfare Scholarship	430751	54
3.	Adi-Dravidar Higher Education Special Scholarship	413000	59
4.	Chief Ministers Farmers Security Scheme Scholarship	425500	95
5.	National Merit Scholarship	2400	1
6.	ICAR National Talent Scholarship	30549	8
7.	Tamil Nadu Teachers Welfare Scholarship	20000	4
8.	ICAR Fellowship	147936	2
9.	UGC Fellowship	100666	1
10.	CSIR Fellowship	194933	2
11.	Chief Minister Award	15000	10
12.	TNAU Merit Scholarship	10000	10
13.	TNAU Research Assistantship	39900	3
14.	Chikkammal-Kamala PG (SS&AC) Scholarship	6500	1
15.	Chikkammal-Kamala UG Scholarship	6500	1

6. Awards and Prices received by the students during 2005-06

Sl.No.	Awards/ Prizes	Year	Students name
1	Pioneer endowment Award	I year	R. Rajapriya
2	John Plough works Award	II year	K. Sathya
3	MASU Award	III year	Bivya balakrishnan

4	Dr A Mariyakulandai medal	IV year	K Unnamalai
5	K R Nagarajan Award	IV year	Divya Balakarishnan
6	Jayadeep kumar Janarthann Award	IV year	Anil kumar chowbey
7	W P A R Nagarajan Award	IV year	Paulin Datta
8	Dr K Sivaprakasam Award	IV year	Jaydeep Doss
9	M S N Padiya nadir award	IV year	Paulin Datta
10	I A U Award	IV year	Paulin Datta

7. Educational Tours during 2005-06

Sl. No.	Tour	Period	Places visited	Year /batch	Number of students
1	All India Tour	27.08.2005 to 12.09.2005	New Delhi, Dehra Dun Simla Hyderabad	2005-06	98

8. Students participation and prizes won in games during 2005-06

S.No.	Sports/Games	Place	Date	Students who won	Position
1	Discus throw	Madurai Race course	22.09.2005	T Sathyaraj	I
2	High jump			S Kalanithy	I
3	Discus throw			E Sivapriya	II
4	Shot put	Rajasthan	23.02.2006 to 27.02.2006	J Mathi	II
5	High jump			S K alanithi	II
6	4 x 100 relay			S Sumathi	II

9. Important College Functions during 2005-06

S.No.	Date	Function	Prseded by	Chief Guest
1.	20.03.2006	40th Annual Sports day	Dr.K. Ramamoorthy	Dr Rajaram, Principal, Tyagarajar College of Engineering

3.2.3. Agricultural College and Research Institute, Killikulam

1. Student Admission - Year wise
UG Student Admission for the year 2005-2006

S No	Degree Course	General Admission details			Self finance Admission details			Total Admission details		
		Boys	Girls	Total	Boys	Girls	otal	Boys	Girls	Total
1	B Sc (Agri)	40	48	88	-	-	-	40	48	88

2. Student Admission Quota wise allotted
UG Student Admission quota wise allotted B.Sc. (Ag).

S No	Allotment details	General Admission details			Self finance Admission details			Total Admission details		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1	O C	-	2	2	-	-	-	-	2	2
2	BC	13	22	35				13	22	35
3	MBC	10	14	24				10	14	24
4	SC	-	1	1				-	1	1
5	ST	12	7	19				12	7	19
6	ICAR quota	5	2	7				5	2	7
7	Family from Military Service man	-		-				-	-	-
	Total	40	48	88	-	-	-			88

3. Total No. of students in 2005-2006
Under Graduate Education

SNo	Year	No of Students studies		
		Boys	Girls	Total
1	2005	40	48	88
2	2004	43	30	73
3	2003	23	29	52
4	2002	38	38	76
	Total	144	145	289

4. 2005-2006 Scholar ship details

S.No	Details	Amount in Rs.	Total No. of students
1	BC/MBC/DNC Scholar ship	5,55,037	162
2	GOI SC/ST Post metric	9,17,095	83
3	HESS SC/ST loand\	2,45,000	35
4	Chief minister awards	37,500	25
5	Gandhi memorial Award	1,000	1
6	National Merit Schlorship	3,420	1
7	Tamil Nadu Teachers welfare award	15,000	2
8	ICAR National Talent Award	36,018	8
9	SC/ST State Special Scholarship	4,890	1
10	MRC Anbargal nesa karangal	4,000	1
11	SC/ST Prize money award	30,000	6
12	SC/ST book bank scheme	47,000	0
13	Chief ministers Farmers security scheme	1,71,000	41
	Total	21,50,229	366

5. Details for the Junior Research Fellow Scholarship awarded to students by the Indian Council of Agricultural Research

S.No.	Subject	No. of students passed		
		Scholarship	Admission only	Total
		-	-	-

6. Award & Prices awarded to students: Nil

7. Educational Tour during the year 2005-06

Sl. No	Nature of Tour	Period of Tour	Places of visit	Batch & year	Number of students
1	All India Study Tour	01.9.05 to 19.9.05	ICRISAT, Hyderabad CRIDA, Hyderabad DRR (Directorate of Rice Research), Hyderabad MANAGE, Hyderabad EEI (Extension Education Institute) NPPTI – National Plant Protection and Training Institute, Hyderabad. IARI & NBPGR at New Delhi NRSI , IFRI at Dehradun CPRI – Kufri ,Shimla and NCMR – Solan, Y.S. Parmer University of Horticulture,Solan Punjab Agrl. University , Rose garden Rock garden at Ludhiana Moghul garden at Agra	2002 batch year of visit 2005-06	76

8. Placement – through Campus Interview

S. No	Name of firm	Place of interview	Date of Interview	Number persons selected
1	Indian Association for savings and credit, Coimbatore	DSW, TNAU	28.03.05 29.03.05	03
2	VAPS (Agri clinic), Madurai	VAPS, Madurai	18.05.05	18
3	State Bank of India and Trivancore, Coimbatore	DSW, TNAU	06.05.05 07.06.05	04
4	Karvy Comtrade Ltd., Coimbatore	DSW, TNAU	10.03.06	01
5	Junior Research Fellow, AC&RI, Killikulam	DSW, TNAU	March 2006	01

10. Sports - Nil

11. College Functions

S.No	Date of function	Name of the function	Presided by	Chief Guest
1	06.1.2006	Tamil literary Association Inauguration function	Dr.T.M. Thiyagarajan Dean, AC&RI, Killikulam	Dr.G. Renganathan Professor and Head KVK, Sirugamani
2	26.02.2006	Killisfolk	Dr.C. Ramasamy Vice Chancellor TNAU, CBE	Dr.C. Ramasamy Vice Chancellor TNAU, CBE
3	01.03.2006	College Sports Day	Dr.T.M. Thiyagarajan Dean, AC&RI, Killikulam	Dr.Baskaran, I.P.S., Dy. ommissioner Tirunelveli
4	06.3.2006 to 08.3.2006	Winners Acofun 2006	Dr.T.M. Thiyagarajan Dean, AC&RI, Killikulam	Dr.T.M. Thiyagarajan Dean, AC&RI, Killikulam
5	09.3.2006	21st College Day and Club Day	Dr.T.M. Thiyagarajan Dean, AC&RI, Killikulam	Dr.N. Kembu chetty Dean, AC&RI, Madurai

3.2.4. Anbil Dharmalingam Agricultural College and Research Institute, Trichy

1. Student Admission – Degree wise

2005-2006 : Students Admitted in Bachelor Degree Details

S No	Degree	General			Self Finance Scheme			Total		
		Admission Details			Admission Details			Admission Details		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1	B.Sc (Ag.)	34	41	75	-	-	-	34	41	75

2. Students Admission – Quota wise

2005-2006 : The Details of Students Admitted in each category

Degree – B.Sc (Ag.)

	Category	General			Self Finance Scheme			Total		
		Admission Details			Admission Details			Admission Details		
		Boys		Total	Boys		Total	Boys		Total
1	General	-	-	-	-	-	-	3	2	5
2	BC	14	21	35	-	-	-	14	21	35
3	MBC	11	9	20	-	-	-	11	9	20
4	ST	-	3	3	-	-	-	-	3	3
5	SC	6	6	12	-	-	-	6	6	12
6	ICAR Quota	3	2	5	-	-	-	3	2	5
7	Other Quota	-	-	-	-	-	-	-	-	-
	Total	34	41	75	-	-	-	34	41	75

3. 2005-2006 : Students Studied

B.Sc(Ag.), B.Tech.,

S.No	Year	Students Studied		
		Boys	Girls	Total
1	I Year	34	41	75
2	II Year	36	77	63
3	III Year	34	21	55
4	IV Year	32	29	61
Total		136	118	254

4. 2005-2006: Details of scholarship availed by students

S.No	Scholarship Details	Scholarship Amount per year (Rs.)	Number of benefited boys and girls students
1	District SC and ST Scholarship	3,38,920	32
2	District BC and MBC Scholarship	5,19,144	142
3	CM fund for SC	9000	6
4	GOI Merit Scholarship	2700	1
5	SC and ST Educational Loan	84,000	12
6	Tamil Nadu Govt. Farmers protection scheme	2,47,000	60
7	National Talent Scholarship (ICAR)	18,870	4
	Total	**12,18,634**	

5. ICAR-JRF Competition Successful Candidates

S.No	Subject	Successful Candidates Number		
		Fellowship	Placement	Total
1	Entomology	5	4	9
2	Social Science	1	1	2
3	Soil Science	1	3	4
4	Agronomy	-	1	1
5	Crop Science	-	7	7
	Total	7	16	23

6. 2005-2006 : Education related Awards and Prizes

S.No	Details of Awards and Prizes	Period	Winners Name
1	Rasi Seeds Prize	2005-06	K. Kaviarasan
2	Salem Gugai, Thiruppathi and G Sampoornammal Medal	2005-06	Prasant Kumar Jha
3	Dr. C.V. Govindasami Medal	2004-05	N. Kanchana
4	Vada Madurai Govindasami Medal	2004-05	N. Sujithra
5	Karaikal, R. Siva Gurumoorthi Iyar Medal	2004-05	N. Kanchana
6	Rajagopalan Padmavathi Medal	2005-06	K. Venkalamani

7. 2005-2006 : All India Study Tour

S. No	Nature of Tour	Period	Places Visited	Batch	Number of Students
1	All India Study Tour	16.8.05 to 01.09.05	New Delhi, Jaipur, Dehradun, Chandigarh and Hyderabad	2002-03	61

8. Campus Interview and Placement

S.No	Agencies	Interview Date	Number Selected
1	Rasi Seeds, Athur	8.3.05	5
2	EID Parry, Pettavaithalai	20.4.05	5
3	Scientific Chemical Company, Salem	8.9.05	2

9. 2005-2006 : Successful Candidates in UPSC Examinations

S.No	Details	Successful Candidates	Rank	Degree and Batch
1.	Indian Administrative Service	1. Arulananthakumar	313	B.Sc (Ag.) 1994-98
		2. M. Periasamy	337	B.Sc (Ag.) 1994-98
		3.S.Thirugnanasampantham	207	B.Sc (Ag.) 1996-2000
2.	Indian Police Service	-	-	-
3.	Indian Forest Service	1. M. Periasamy	35	B.Sc (Ag.) 1994-98
		2. S. Yuvaraj	28	B.Sc (Ag.) 1997-2001

10. 2005-2006 : Sports and Games and Prize Winners

S.No	Sports Medal	Organizer	Place and Date	Winners	Rank
1	Chess Competition	Vellore Institute of Technology, Vellore	-	J. Shanmugasundar	Second

11. 2005-2006 Education related important students functions

S.No	Function Date	Function Name	Presided By	Special Guest / Chief Guest
1	4.5.05	Farewell to Final Year	Dean	-
2	23.8.05	Welcome to First Year	Dean	-
3	24.9.05	Students Club Inauguration Felicitations	Dean	Vice-Chancellor, TNAU Mr. K. Srinivasan
4	3.8.05		Dean	Mr. K.S Ilayaraja Successful candidates in IAS, Civil Services
5	14.11.05	Red cross club inauguration	Dean	Dr. K. Mathivanan, Asst.Director, (Medicine), Trichy

6	6.01.06	Pongal Vizha and Tamil Ilakkiya Mandram	Dean	Dr. N. Seshadri, Principal, Dayanantha Art and Science College, Kudavasal.
7	24.01.06	AGRI-FESTA 2006	Dean	Vice-Chancellor, TNAU
8	20.2.06	Tamil Eloucation	Dean	Dr. E. Vadivelu, Dean, HC&RI, TNAU, Coimbatore.
9	3.3.06	Sports Day	Dean	Th. Manohara Singh Project Officer, DRDA, Trichy
10	29.3.06	College Day and Club Day	Dean	Dr. S. Sathiyamoorthi, Director, NBRC, Trichy
11	30.0.06	Hostel Day	Dean	Th. C.Sylendirababu IPS DIG of Police, Trichy Range, Trichy

12 Agricultural Diploma Institute : No

3.2.5. Horticultural College and Research Institute, Coimbatore

1. Students' admission - Course wise

S No	Name of the course	General			Self Finance Scheme			Total		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1.	B.Tech (Hort.)	5	9	14	3	3	6	7	12	19

2. Students' admission - Community wise
Name of the Course: B.Tech (Hort.)

S. No	Community	General			Self Finance Scheme			Total		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1	General	-	-	-	1	1	2	1	1	2
2	BC	2	6	8	1	-	1	3	6	9
3	MBC	1	1	2	0	1	1	1	2	3

4	ST	1	2	3	-	-	-	1	2	3
5	SC	-	-	-	1	1	2	1	1	2
6	ICAR	-	-	-	-	-	-	-	-	-
7	Others	-	-	-	-	-	-	-	-	-
	Total	**4**	**9**	**13**	**3**	**3**	**6**	**7**	**12**	**19**

3. Details on students studying during the year 2005-06

S. No.	Year	No. of students studying		
		Boys	Girls	Total
	B.Tech (Hort.)			
1.	I Year	5	18	23
2.	II Year	7	12	19
3.	III Year	6	11	17
4.	IV Year	8	8	16
	Total	**26**	**49**	**75**

4. Details of various Scholarships paid to the students for M.Sc. & Ph.D.

S. No.	Name of the Scholarship	Year	Amount	Course of study	Name of the student
1.	SC Scholarship	2005-06	7825	I B.Tech	R.Sivaraman
2.	MBC Scholarship	2005-06	3258	I B.Tech	V.Saravanan
3.	BC Scholarship	2004-05	7460	III B.Tech	P.Arulmurugan
4.	BC Scholarship	2004-05	16760	III B.Tech	G.Anitha Maragatham

5. Details of scholarship for the year 2005-2006

S. No.	Name of the Scholarship	Amount of Scholarship Rs. / Year	No. of the students benefited
1.	SC Scholarship	7825	1
2.	MBC Scholarship	3258	1
3.	BC Scholarship	24220	2

6. Awards and Prizes received by the students during 2005-06

Sl.No.	Awards/ Prizes	Year	Students name
1.	-	-	-

7. Educational Tours during 2005-06

Sl.No.	Tour	Period	Places visited	Year /batch	No.of students
1	Educational tour	11.02.2005 -23.02.2005	Maharashtra	2003-04	16
2	Educational tour	15.03.2005 -22.03.2005	Paiyur, Tirupathur, Chennai, Vandallur, Pondicherry, Cuddalore, Panruti, Pichavaram, Neyveli, Virudachallam, Trichy	2003-04	16
3	Educational tour	09.07.2005	Erode	2003-04	16
4	Educational tour	21.08.2005	Koimbedu	2003-04	16
5	Educational tour	22.08.2005	Chennai	2003-04	16
6	Educational tour	23.08.2005	Kolar	2003-04	16
7	Educational tour	24.08.2005 - 25.08.2005	Bangalore	2003-04	16
8	Educational tour	20.09.2005 - - 22.09.2005	Trichur	2003-04	16
9	Educational tour	09.03.2006- 10.03.2006	Kerala	2003-04	16
10	Educational tour	30.03.2006 - 31.03.2006	Sathyamangalam, Palani	2003-04	16
11	Educational tour	13.7.2006 - 15.7.2006	Annaikatti	2003-04	16
12	Educational tour	03.02.2005 - 05.02.005	Paiyur, Hosur	2004-05	17
13	Educational tour	15.02.2005	Sulur	2004-05	17
14	Educational tour	09.03.2005	Thadagam	2004-05	17
15	Educational tour	07.04.2005 -09.04.2005	Salem, Attur, Yercaud	2004-05	17
16	Educational tour	18.04.2005 -20.04.2005	Nilakottai, Periyakulam, Kanyakumari, Nagerkovil, Tuticorin	2004-05	17

17	Educational tour	11.07.2005	Nilgiris Stores	2004-05	17
18	Educational tour	18.07.05-20.07.2005	Bangalore		17
19	Educational tour	01.09.2005	Ooty	2004-05	17
20	Educational tour	28.09.2005 - 30.09.2005	Salem, Krishnagiri, Hosur, Paiyur	2004-05	17
21	Educational tour	29.09.2005	Ooty	2005-06	19
22	Educational tour	19.11.2005 - 20.11.2005	Top slip	2005-06	19
23	Educational tour	01.12.2005	Palladam, Udumalpet	2005-06	19
24	Educational tour	03.12.2005	Thondamuthur, Palani	2005-06	19
25	Educational tour	06.12.2005 -07.12.2005	Dharmapuri	2005-06	19
26	Educational tour	09.12.2005 -10.12.2005	Trichy, Periyakulam, Kodaikanal	2005-06	19
27	Educational tour	27.02.2006 -01.03.2006	Salem, Attur, Yercaud	2005-06	19

8. Students participation and prizes won in games during 2005-06

S.No.	Sports/Games	Place	Students who won	Position
1	Basket ball	ICT, Karaikal	N.Deepti A.S.Divyameenakshi	I
2	Table tennis	ICT, Madurai	N.Deepti	I
3	Table tennis	All India Agrl. Sports Meet, Udiyapur	N.Deepti	I

9. Important College Functions during 2005-06

S.No.	Date	Function	Presided by	Chief Guest
1.	-	-	-	-

3.2.6. Horticultural College and Research Institute, Periyakulam

Degree : B.Sc., (Horticulture)

S N	Reservation	General			Self supporting			Total		
		Admission details			Admission details			Admission details		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1.	General	-	2	2					2	2
2.	BC	7	19	26	-	1	1	7	20	27
3.	MBC	11	3	14	-	-	-	11	3	14
4.	ST	1	1	2	-	-	-	1	1	2
5.	SC	8	10	18	-	-	-	8	10	18
6.	ICAR Quota	-	1	1	-	-	-	-	1	1
7.	Others	-	-	-	-	-	-	-	-	-
	Total	27	36	63		1	1	27	37	64

Students enrolment 2005-2006

B.Sc., (Hort.)

S.No	Year	Students strength		
		Boys	Girls	Total
1.	I B.Sc., (Hort.)	27	37	64
2.	II B.Sc., (Hort.)	25	35	60
3.	III B.Sc., (Hort.)	26	34	60
4.	IV B.Sc., (Hort.)	31	23	54

Scholarship details 2005-2006

S.No	Scholarship details	Scholarship Amount per yeat	No. of students availed
1.	GOI Post merit SC/ST Scholarship	4,42,160	42 No's
2.	Prize money award SC/ST students	10,000	2

3	BC/MBC/DNC scholarships	3,06,507	73
4	Free Education scholarship SC/ST students	10,850	5
5	SC/ST converted Christian scholarship	10,560	2
6	Chief minister award	10,500	7
7	ICAR Talent scholarship	3,871	1

Students selected for ICAR – Junior Research Fellowship

S.No	Subject	Number of Passed students	
		Fellowship	Total
1.	B Sc. (Horticulture)	1	1

Awards and Prizes received by students during 2005-2006

Sl No	Name of the Award	Year	Name of the student
1	Jaideep Kumar Janardhanan memorial Award for best student in entomology courses	2005-2006	M Vignesh Pavalavel
2	Best B Sc (Hort) student	2005-2006	Ashlin Joshi

Educational tours organized during 2005 – 2006

S No	Tour	Period	Places of visit	Batch	Number of students
1.	Internship in plantation crops	23.08.2005 to 06.09.205	Coonoor and Yercaud	2003-2004	60
2.	All India Tour	14.09.2005 to 01.10.2005	Banglore, Mysore, New Delhi, Jaipur, Agra, Simla, Solan, Dehradun	2002-2003	54
3.	Internship in sub tropical and temperate crops	20.02.2006 to 06.03.2006	Thadiyankudisai and kodaikanal areas	2003-2004	60

Students placement thorough campus interviews

S.No	Organization / firms	Date of interview	No. of student selected
1.	Private organizations, Campus interview, Coimbatore	21.02.2006	Results awaited
2.	Private organizations, Campus interview, Coimbatore	07.04.2006 & 08.04.2006	Results awaited
3.	Hosur Tropicals	22.04.2006	Results awaited
4.	N.C.R.C., Nagapattinam	30.05.2006	one
5.	Canara Bank	22.05.2006 to 24.05.2006	Results awaited
6.	Private organizations, Campus interview, Coimbatore	10.06.2006	Results awaited

Students selected for civil service examination sports quota: Nil

Physical education and sports performance

Sports and Games	Organization	Date and Place	Name of the Performer	Performance
Theni District Cricket team	Krishnagiri District Cricket Association	July 2005 Krishnagiri	V. Murugan A. Mahadevan K. Balachandar	Represented Theni District Cricket team
Volley Ball, South Zone Inter University	Warangal Univeristy, Andra Pradesh	November 2005 Warangal University, Andra Pradesh	K. Balachandar C. Prabu	Represented the University
Athletics	TANSAC & Theni District Sports Council	22nd December 2005 Horticultural College and Research Institute, Periyakulam	A. Sengottaiyan K. Balachandar K. Sankaranarayanan K. Balachandar A. Sengottaiyan K. Balachandar P. Janani P. Nagajothi P. Anushya P. Nagajothi P. Suganthi P. Janani P. Anushya P. Janani	1st Prize in 100 m 2nd Prize in 100 m 1st Prize in shotput 2nd prize in shotput 2nd Prize in Long jump 3rd Prize in long jump 1st Prize in long jump 2nd Prize in long jump 3rd Prize in long jump 1st Prize in shotput 2nd prize in shotput 3rd prize in shotput 1st Prize in 100 m 2nd Prize in 100 m 3rd Prize in 100 m
Basket Ball (Women)			E. Elakkiya	1st Prize

District Level Badminton Tournament	Friends Club, Periyakulam	31st December 2005 & 1st January 2006 Periyakulam	D Dhinesh C Meenakshi sundaram G Prabu P Vinoth Kumar	Best Disciplined Team Award
State Level Inter Collegate Basket Ball Tournament	J C College, Periyakulam	J C College, Periyakulam	Participation	Participation
All India Inter- Agri Sports and Games Meet	Maharana Pratap University of Agriculture and Technology, Udaipur	23rd to 27th February 2006 Udaipur, Rajasthan	K Balachandar R B Karthik Kumar N Vasu K Balachandar C Prabu D Muthulakshmi R Revathy K Dhanalakshmi	Gold Medal in High Jump Runner Up in Basket Ball Participation in Volleyball Participation in Athletics
Cricket	Theni District Cricket Assocation One Year League Matches	2005-2006 Horticultural College and Research Institute, Periyakulam	College Cricket Team	Best Appealing Team

Students Functions organized at HC & RI, Periyakulam during 2005-2006

S. No.	Date	Name of the function		Chief quest
1.	27.07.2005	Students club inauguration	Dr.S.Anbu, Dean	Mr. Rajesh lakani, District collector, Theni.
2.	15.01.2005	Independence day	Dr.S.Anbu, Dean	-
3.	22.08.2005	Orientation day	Dr.S.Anbu, Dean	Mr.R.Thinakaran, District Superintendent of Police, Theni.
4.	24.01.2006 to 25.01.2006	Muthamil vizha	Dr.S.Anbu, Dean	Dr.D.Rajaram,Prof. (Tamil) Madurai, Dr. K. Ghanasumbuntham, Prof. (Tamil), Madurai/
5.	24.03.2006	College day & Club day	Dr.S.Natarajan, Dean	Dr.E.Vadivel, Director of Extension education
6.	12.04.2006	Sports day	Dr.S.Natarajan, Dean	Mr.L.Nathan, District Forest Officer, Kodaikanal.
7.	26.03.2006	Hostel day	Dr.S.Natarajan, Dean	Dr.K.Vanagamudi, Dean (Hort.), TNAU, Coimbatore

3.2.7. Forest College and Research Institute, Mettupalayam

1.Students enrolled – course wise in the year 2005-06

Sl. No.	Course	General			Self Financing			Total		
		Details of enrollment			Details of enrollment			Details of enrollment		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
1	B Sc (For)	16	2	18	7	-	7	23	2	25

2.Students enrolled – category wise in the year 2005-06

Sl. No.	Details of category	General			Self Financing			Total		
		Details of enrollment			Details of enrollment			Details of enrollment		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
1	OC	-	-	-	-	-	-	-	-	-
2	BC	5	1	6	3	-	3	8	1	9
3	MBC	5	-	6	4	-	4	9	-	9
4	SC	-	-	-	-	-	-	-	-	-
5	ST	5	1	6	-	-	-	5	1	6
6	ICAR	1	-	1	-	-	-	1	0	1
	Total	16	2	18	7	-	7	23	2	25

3.Total number of students studied in the year 2005-06

Sl. No.	Year	Total number of students		
		Male	Female	Total
1.	I B.Sc. (2005)	23	2	25
2.	II B.Sc. (2004)	24	1	25
3.	III B.Sc. (2003)	16	2	18
4	IV B.Sc. (2002)	13	1	14
Total		76	6	82

4.Details of scholarship awarded in the year 2005-06

Sl. No.	Name of the scholarship	Amount (Rs.)	No. of beneficiaries
1.	TNSCST	84,461	8
2.	Periyar Endowment	19,967	2
3.	Tamil Nadu Adi Dravidar Scholarship	1,28,165	13
4.	Rajasthan Adi Dravidar Scholarship	10,880	1

5. Details of students awarded ICAR fellowship

Sl. No.	Course	No. of students awarded		
		With fellowship	Admission only	Total
1.	Forestry	3871	1	1

6. Medals / Prizes won the students in the year 2005-06

Sl. No.	Medal / Prize	Year	Name of the student
1.	Prof. Srinivasan Kondas TAFCORN and TANTEA award for the Best B.Sc (Forestry) student of the University	2005	V. Harini
2.	Arukkaniammal Subramanian and Dr K.L.Chellapillai award for the Best student in IV year B.Sc. (Forestry) of the University	2005	V. Harini
3.	Availed a Student's fellowship sponsored by Tamil Nadu Council for Science and Technology, Chennai.	2006	M. Kiruba
4.	Won second prize in essay competition conducted by SFRC, Coimbatore on the eve of "Wildlife week Celebration" by Tamil Nadu Forest Department. The prize was distributed by the Collector, Coimbatore District on 5th October and it carries a certificate and a brass bowl.	2005	K.Murali Sankaar

7.Educations tours organized for the students

Sl. No.	Kind of tours	Period	Place of visit	Year	Total No. of students
1.	Southern Tamil Nadu Tour	8 days	Thekkadi, Kanyakumari, Paramakudi	I B.Sc.	25
2.	Northern Tamil Nadu Tour	8 days	Yercaud, Thiruvannamalai, Pandicheri	II B.Sc.	25
3.	All India Tour	15 days	Delhi, Dehra Dun, Bangalore	IV B.Sc.	14

8. Placement through campus interviews

Sl. No.	Name of the company	Date and venue of interview	No. of students selected
1.	Ballarpur Industries Ltd., Haryana.	April 2005 at FC&RI, Mettupalayam	3
2.	Ballarpur Industries Tree Tech Ltd., Haryana	24th May at FC&RI, Mettupalayam	4
3.	State Forestry Research Institute, Chennai	July 2005 at FC&RI, Mettupalayam	1

9. No. of students excelled in competitive exams

Sl. No.	Name of the competitive exam	Name of the student	Rank	Year/Programme of study
1	Indian Forest Service	Georgi P. Mathachan		
2	Indian Forest Service	S.Venkatachalam		
3	Indian Forest Service	K.Geethanjali	4	
4	Indian Forest Service	M.Yogajayanand		
5	Indian Forest Service	Padmavathi	3	
6	Indian Forest Service	S.Jegadeesan		
7	Indian Forest Service	E.Vikram		

10. Details of sports / tournaments conducted in the year 2005-06 and prizes won the students

Sl. No.	Name of the sports/ tournaments	Organi-zer	Date and Place	Students name	Rank
1.	South Zone Inter University volleyball tournament	TNAU	Warrangal from 2-5 Nov. 2005	S.Sathish	
2.	TNAU Intercollegiate Volleyball tournament	TNAU	ADAC&RI, Trichy between 22 and 23 November 2005	College Volleyball team	The team reached upto semifinals and lost very narrowly
3.	Inter Collegiate Tournament (ICT)	TNAU	28th Jan. 06 AC&RI, Madurai	Team	

4	Talentia 2006 cultural programme	TNAU	30th and 31st January 2006 AC&RI, Madurai	Team	Overall championship
5	Kabbadi tournament	TNAU	HC&RI, Penyakulam	Team	Winner up and overall championship

Name of the even won	Participant	Prize materials awarded
Prizes won by students in Karishma (09-09-05)		
Skim your views – 1st prize	Mr.N Naveenkumar, III B.Sc (Foretry)	Certificate, Cash Rs.1000/- Gold coin worth Rs.500/- T Shirt Rs.200/- 24 carrot gold plated photo album Black thunder ticket, Gift hampers
Dress your way to win 2nd prize	Mr.B Senthilkumar Mr.S Sathish III B.Sc (Forestry)	Certificate, Cash Rs.2000/- Sarees worth Rs.2000/-, T Shirt Rs.400/- Black thunder tickets, Gift hampers
Wealth out of waste – 2nd prize	Mr.S Umar Ibrahim Mr.N Karthikeyan II B.Sc (Forestry)	Certificate, Cash Rs.1000/- T Shirt Rs.400/-, Black thunder tickets, Gift hampers
Prizes won by students in MASU Day 2004 (28-09-05)		
Essay competition (PG)	Mr.K.Nesamani, H M.Sc (Forestry)	Certificate and prize
Essay competition (UG)	Mr.S Narayanan, III B.Sc (Forestry)	Certificate and prize

11. Others

A special NSS camp was conducted at Kendepalayam village of Tekkampatty Panchayat for a period of 10 days between 24-03-05 and 02-04-05. The camp was attended by 26 NSS volunteers assisted by 4 additional volunteers. During this special camp massive social mobilization was achieved through active participation of villagers. Various agro-technologies were delivered to the villagers. A general medical and veterinary camp was also conducted which resulted in active participation of people.

3.2.8. Agricultural Engineering College and Research Institute, Coimbatore

1. Admission

2005-2006 admission details

Sl. No	Degree	General			Self supporting			Total		
		Admission details			Admission details			Admission details		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1	B.Tech (Food Process Engineering)	-	-	-	11	19	30	11	19	30
2	B.Tech (Energy and Environmental Engineering)	-	-	-	14	14	28	14	14	28

Admission – Reservation wise 2005-2006

B.Tech (Food Process Engineering) & B.Tech (Energy and Environmental Engineering)

Sl. No	Reservation	General			Self supporting			Total		
		Admission details			Admission details			Admission details		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1.	General	-	-	-	1	4	5	1	4	5
2.	BC	-	-	-	12	14	26	12	14	26
3.	MBC	-	-	-	8	7	15	8	7	15
4.	ST	-	-	-	-	-	-	-	-	-
5.	SC				5	7	12	5	7	12
6.	ICAR	-	-	-	-	-	-	-	-	-
7.	Others	-	-	-	-	-	-	-	-	-
	Total				26	32	58	26	32	58

2005 – 06 passed out students details
Under Graduate

Sl. No	Year	Boys and Gitrls		
		Boys	Girls	Total
1	I year	25	33	58
2	II year	21	25	46
3	III year	8	11	19
4	IV year	8	12	20
	Total	62	81	143

2005-2006 students scholar ship details

Sl. No	Scholar ship details	Amount	Benefited students
1	ST	9800	5
2	BC	7150 I year 5850 II year 6100 III year 3050 IV year	20

ICAR Scholar ship

Sl. No	Copurse	Possed out studetrns		
		Scholar ship	Admission only	Total
-	-	-	-	-

2005-2006 Education Awards

Sl. No	Award	Term	Total
-	-	-	-

2005-2006 Tour details

Sl. No	Tour	Term	Place	Year	Total studetns
	Short tour	20.09.2005 - 01.10.2005	Paiyur, Virinchipuram, Dharmapuri, Chennai, Guddalore, Kumulur, Trichy, Madurai, Kanyakumari,	II B.Tech (FPE)	19

			Periyakulam,, Nagarcoil, Karur and Dharapuram;		
	All India Study Tour	05.01.2006-22.01.2006	Dharmapuri, Hosur, Chittoor, Mumbai, New Delhi, Ambalacont, and Karnal.	IV B.Tech (FPE)	16

3.2.9. Agricultural Engineering College and Research Institute, Kumulur

1. Admission of Students – Degree wise

No. of students undergone the degree programme during the year 2005-06.

Sl.No.	Degree	Common			Self-supporting courses			Total		
		Details of Admission			Details of Admission			Details of Admission		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1.	Agriculture Engineering	28	16	44	-	-	-	28	16	44

2. Admission of Students – Community wise

No. of undergraduate students community wise admitted during the year 2005-2006

Degree programme : B.Tech (Agrl. Engg.)

Sl. No.	Degree	Common			Self-supporting courses			Total		
		Details of Admission			Details of Admission			Details of Admission		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1.	Open competition	-	-	-	-	-	-	-	-	-
2.	Backward class	13	7	20	-	-	-	13	7	20
3.	Most Backward class	6	4	10	-	-	-	6	4	10
4.	Schedule Tribe	1	-	1	-	-	-	1	-	1
5.	Schedule cast	7	5	12	-	-	-	7	5	12
6.	ICAR	-	-	-	-	-	-	-	-	-
7.	Others	1	-	1	-	-	-	1	-	1
	Total	28	16	44	-	-	-	28	16	44

3. No. of studying students during the year 2005- B.Tech

Sl.No.	Year	No. of Boys/ Girls studied		
		Boys	Girls	Total
1.	Ist year	58	16	44
2.	IInd year	26	16	42
3.	IIIrd year	22	08	30
4.	IVth year	20	13	33
	Total	96	53	149

4. No. of students awarded scholarship during the year 2005-2006

Sl. No.	Details of the scholarship	Scholarship amount per year				No. of boys/girls benefited	
		Ist year	II year	III year	IV year	Boys	Girls
1.	SC/ST	10730	11990	11370	10590	17	6
2.	SC special scholarship	7000	7000	7000	7000		
3.	BC/MBC/DNC scholarship	1370/ 4620	4200/ 4450	3630/ 3880	3240/ 3490	38	16
		1880/ 2130	1795/ 2045	1720/ 1920	1690/ 1900	10	11
4.	Chief Minister Farmer Scheme	Boys 4000/- Girls 4500/-					

5. No. of students selected for ICAR scholarship (Education)

Sl.No.	Subject	No. of passed students		
		Scholarship amount	Admitted	Total
-	-	-	-	-

6. Students awarded prizes and medals during the year 2005-2006

Sl.No.	Details of the Prizes and medals	Time	Name of the student
1.	II position	Intercollegiate Basket Ball Tournament	J.Arunkumar

7. Educational tours undertaken during the year 2005-2006

S No	Nature of the Tour	Period	Places	Batch	No of students
1	Education Tour	1.1.05 to 18.12.05	**AGE 403** **All India Study Tour** Jain Irrigation systems Ltd, Jalgaon Indian Institute of Technology, Mumbai ASPEE Sprayer, Mumbai IndianInstitute of Packaging, Mumbai Indian Instt. OF Remote Sensing, Dehradun Central Soil & Water Conservation Research Instt. Dehradun HMT Tractors, Pinjore Indian Agrl. Research Instt. New Delhi SSP Food & Dairy Plant, Faridabad	2002-03	33
2		3.1.2006	Chethar Foods, Musiri, Pugalur TNPL-paper Mill Pugalur I,KCP Solar Ltd, Salem.		
		4.1.2006	VEE YEL Fruit Products Pvt. Coimbatore		
		5.1.2006	PSG Foundry/LCT Coimbatore Texmo Motors & Pumps/Orenuer Synthetics, Coimbatore		
		6.1.2006	ARS, & Parambikulam-Aliyar-Water distribution system		
		7.1.2006	Parambikulam to Santhosh Organic Farming, Pollachi		
		8.1.2006	Visiting Soil Conservation Works-Visit to Periyar-Vaigai Project area, Cumbum Valley		
		9.1.2006	Visit to Port/SPIC, Fisheries College, Tuticorin		
		10.1.2006	Vivekananda Kendra NARDEP, Kanyakumari		
		11.1.2006	Visit to Wind farm, Muppanda/Kayathar, ARS, Kovil Patti.		
		12.1.2006	Visit to Irrigation TECH Park Shanmugam Pillai & Sons, Dindigul (Roasster Machine)		

8. Appointed under walk-in-interview

Sl.No.	Institution	Date of interview	No. of students selected
1	TAFF, Chennai	29.7.2005	3

9. Details of the students finally selected for all India Competition in games and sports during the year 2005-06

Sl No	Competition Examinations	Name of the selected student	Rank	Year in which the student/year of study
1	IAS	Nil		
2	IPS			
3	IPS			

10. Prizes awarded for sports & Games competition during the year 2005-2006

S No	Games/ Competition	Organizer	Place	Price winner student	Avenue
1	All India Inter Agri Tournament Basket Ball	-	23rd to 26th Feb 06 Udaipur	S Jayachandran	II position

11. The college functions (Education) conducted during the year 2005-2006

S. No.	Date of function	Name of the function	Chairman	Chief guest/VIP
1	14.7.2005 & 15.7.2005	Inter Collegiate Basket Ball Tournament for centenary celebration	Dr C.T Devadas, Ph.D., Dean	Th.K.Sundaresan, Manager, State Bank of India, Lalgudi
2.	22.2.2006 & 23.2.2006	TNAU, Intercollegiate Ball Badminton	Dr C.T Devadas, Ph.D., Dean	Er.M.Natesan, M.E., Superintendent Engineer (North
3	21.2.2006	Annual Sports Meet	Dr C.T.Devadas, Ph.D., Dean	Er.P.Sundhar, B.E., (Agri.) Executive Engineer, Trichy
4.	3.3.2006	Club day	Dr.K.Rangasamy, Ph.D., Dean	Th.N.Elangovan, President, Lines Club, Lalgudi.

12. Diploma in Agriculture : Nil

3.2.10. Home Science College and Research Institute, Madurai

1. Details of students admitted during 2005-2006 for B.Sc.(Home Science) degree programme

Sl.No.	Degree Programme	Students admitted open competition			Students admitted self finance			Total		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1.	B.Sc.(H.Sc)	07	13	20	--	--	--	07	13	20

2. Details of students admission – Category wise

Sl. No.	Degree Programme	Students admitted open competition			Students admitted self finance			Total		
		Boys	Girls	Total	Boys	Girls	Total	Boys	Girls	Total
1.	B.Sc. (H.Sc.)	07	13	20	--	--	--	07	13	20

3. Details of students studying in the campus during 2005 – 2006 B.Sc. (Home Science)

Sl.No	Year	No. of Students		
		Boys	Girls	Total
1	First	07	13	20
2	Second	05	11	16
3	Third	07	08	15
4	Fourth	03	09	12
	Total	22	41	63

4. Details of scholarship received by students during 2005 - 2006

Sl. No.	Name of Scholarship/ sponsor	Period	Amount/ year	Discipline	Name of the student
1.	TNAU Merit Scholarship	10 months	1000	I B.Sc.(H.Sc.)	S. Anusha
2.	TNAU Merit Scholarship	10 months	1000	I B.Sc.(H.Sc.)	N. Jagadeesan
3.	TNAU Merit Scholarship	10 months	1000	III B.Sc.(H.Sc.)	M.Mahendran
4.	TNAU Merit Scholarship	10 months	1000	III B.Sc.(H.Sc)	J.Meenakshi

5.	TNAU Merit Scholarship	10 months	1000	III B.Sc.(H.Sc.)	B.Meenu Preethi
6.	TNAU Merit Scholarship	10 months	1000	IV B.Sc.(H.Sc.)	M. Dharani
7.	TNAU Merit Scholarship	10 months	1000	IV B.Sc.(H.Sc.)	J. ManjuParkavi
8.	TNAU Merit Scholarship	10 months	1000	IV B.Sc.(H.Sc.)	J. Ponni Priya

Sl. No.	Name of Scholarship / Sponsor	Period	Amount / Year	Discipline	Name of the student
1.	Adi-Dravidar Welfare Scholarship	12 months	10671	I & II B.Sc (H.Sc.)	P.Ganthimathi
2.	Adi-Dravidar Welfare Scholarship	12 months	10671	I & II B.Sc (H.Sc.)	K.S.Sugasini
3.	Adi-Dravidar Welfare Scholarship	12 months	10501	I & II B.Sc (H.Sc.)	K. Nallasamy
4.	Adi-Draidar and Tribal Welfare,	11 months	7000	II B.Sc. (H.Sc.)	K. Nallasamy (2004 batch)
5.	Adi-Draidar and Tribal Welfare,	11 months	7000	II B.Sc (H.Sc.)	P. Ganthimathi (2004 batch)
6.	Adi-Draidar and Tribal Welfare,	11 months	7000	II B.Sc. (H.Sc.)	K.S.Sugasini (2004 batch)
7.	Adi-Draidar and Tribal Welfare,	11 months	7000	III B.Sc. (H.Sc.)	M. Kathiresan (2002 batch)
8.	Adi-Dravidar Welfare Scholarship	12 months	3235	III. B.Sc. (H.Sc.)	G. Vanitha
9.	Adi-Dravidar Welfare Scholarship	12 months	5275	III. B.Sc. (H.Sc.)	P.G. Nisha
10.	Adi-Dravidar Welfare Scholarship	12 months	5275	III. B.Sc (H.Sc.)	M. Kathiresan
11.	Adi-Draidar and Tribal Welfare,	11 months	7000	IV B.Sc. (H.Sc.)	R. Kannan (2002 batch)
12.	Adi-Dravidar Welfare Scholarship	12 months	5275	IV B.Sc (H.Sc.)	T. Thilagavathi
13.	Adi-Draidar and Tribal Welfare,	11 months	7000	IV B.Sc (H.Sc.)	T. Thilagavathi (2002 batch)
14.	Adi-Dravidar Welfare Scholarship	12 months	5275	IV. B.Sc. (H.Sc.)	R. Kannan

5. Details of students who have received ICAR Junior Research Fellowship (2005-06)

Sl.No	Subject	No. of students obtained		
		Fellowship	Placement	Total
1.	Food Science and Nutrition	--	--	--

6. Details of students who have received awards

Sl.No.	Details of awards	Period	Name of the student
Awards			
1	P.A.C. Ramasamy Raja Award	2005-2006	V. Srividhya
2	Students of Home Science Award	2005-2006	V. Srividhya
3	V.K. Gopalswamy Nadar Award	2005-2006	S.K. Mathanghi
4	Sri Govindaraja Mills Award	2005-2006	V. Srividhya
Prizes won			
1	National debate competition	2005-2006	B. Meenu Preethi

7. Details of study tour

Sl. No	Study tour	Period	Places visited	Year	No. of Students
1.	Study tour	2005-2006	Bangalore Mysore Hyderabad Chennai	IV B.Sc (2001 – 2005)	12

8. Details of Placement through Campus Interviews

Sl.No	Institution	Date of Interview	No. of students
1.	STANGEL Pickle & Preserves, Sivaganga	16.07.2005	05
2.	International Agricultural Processing, Nilakottai.	07.03.2006	01

9. Details of students activities conducted during 2005 – 2006

Sl. No	Date	Details of students activities	Presided by	Chief guest
1	18.05.05	Lighting Ceremony	Dr.K. Sheela, Dean (H Sc.)	Dr.G. Pankajam, Ph.D., Former Vice-Chancellor, Gandhigram Rural Institute-Deemed University, Gandhigram.
2	13.09.05	Nutrition week Celebration	Dr.K.Sheela, Dean (H Sc.)	Dr.G. Tamarai Selvi, City Health Officer, Madurai Corporation
3.	13.08.05	Breast feeding week celebration	Dr.K. Sheela, Dean (H Sc.)	Dr.C. Kamaraj, Rtd. Professor of Pediatrics, Rajaji Hospital, Madurai
4.	21.07.05	41st Students Club Inauguration	Dr.N.Kempuchetty, Dean, AC&RI, Madurai	Dr.C.Ramasamy, Vice-Chancellor, TNAU, Cbe
5.	28.05.05	Orientation Day	Dr.V.Murugappan, Director (SCMS), TNAU, Cbe	Dr.S.D.Sundar Singh, Registrar, TNAU, Cbe
6.	28.01.06 and 29.01.06	Inter-collegiate Tournament	Dr.N.Kempuchetty, Dean, AC&RI, Madurai	Dr.R.Thirumalaisamy, Vice-Chancellor, Tamil Nadu Physical Education and Sports University, Chennai.
7.	30.01.06 and 31.01.06	TALENTIA	Dr.N.Kempuchetty, Dean, AC&RI, Madurai	Hon'ble Mr.Justice A. Kulasekaran, Judge, High Court of Madras.
8.	24.03.06 and 25.03.06	Muthamil vizha	Dr.K.Ramamoorthy, Dean, AC&RI, Madurai.	Dr.P.Maruthamuthu, Vice-Chancellor, MKU, Madurai.
9.	29.03.06	40th Hostel Day	Dr.K.Ramamoorthy, Dean, AC&RI, Madurai	Mr.M.R.Vasimalai, Executive Director, DHAN Foundation, Madurai.

10	30.03.06	40th Annual Sports Meet	Dr.K.Ramamoorthy, Dean, AC&RI, Madurai.	Dr.R.Rajaram, Professor of Emeritus, Thiagaraja Engg. College, Madurai.
11	31.03.06	41st College Day & Club Day	Dr.K.Ramamoorthy, Dean, AC&RI, Madurai.	Dr.P. Kanniappan, Vice-Chancellor, Alagappa University, Karaikudi.

3.3. Directorate of Students Welfare

The Directorate of Students' Welfare (DSW) in Tamil Nadu Agricultural University, Coimbatore is nodal centre of Students' Counseling and Placement activities for all the constituent colleges of the university. The prime objective of DSW is to promote capacity building and employability of Agri. graduates. The vision of DSW is to build confidence and competence among Agri-graduates to enable them to compete globally and promote job opportunities at national and international levels. The core activities of DSW are Placement, Higher Education Abroad and Career Counseling

i. Placement

The fresh, unemployed, underemployed, under graduate and post graduate students of all discipline are directed to register their names and submit their resume and this is periodically monitored by DSW. The validity of the students registration is one year and after one year every student has to renew their names for further one year.

ii. Campus Interviews and Job Fairs

Based on the request made by the top notch Agri and Agro-based firms, Banking sectors, Commodity traders, NGOs and Corporate sectors, the campus interviews are fixed once in a month and some times more, based on the necessity and urgency. From 2003-2006, 75 campus interviews have been conducted, more than 185 Agro-based companies have participated and approximately 850 Agri-graduates got selected and benefited. The selection process is done based on the interest of the interviewers. Usually written test, group discussion and personal interview methods are advocated. The employees are facilitated to select candidates of desired skills. Job fair is organized every year during March / April coinciding with the completion of academic programmes.

iii. Industrial Visit

This Directorate attracts Agri. and Agro-based industries, Banking sectors, NGOs and Corporate sectors through industrial and institution visits. These visits provide feed back and assist in demand driven production of Agri -graduates

iv. Overseas Employment Unit

Overseas Employment Unit (OEU) has been launched in this directorate during October 2005 to provide job opportunity for TNAU graduates at international levels. So far about 650 graduates have registered their names and international companies bridged through global networking. The selection process includes telephonic interviews and video conferencing

v. Higher Education Abroad

Counseling for Higher Education Abroad is provided to interested students viz., testing phase, admission phase and visa phase. About 130 students have undergone coaching in DSW and appeared tests / exams such as IELTS, GRE and TOEFL and approximately 42 students have gone abroad viz., USA, UK, Australia, Canada, Belgium, Finland, Germany, Taiwan, Thailand, Japan, South Korea and Singapore (2003-06). In the recent years students are very much interested in joining as member in the "Green Group". It is nothing but internet based global networking for TNAU alumni working or studying abroad for exchange of information about fellowships and assistantships or job opportunities available across the globe. A separate database of 250 TNAU alumni who are studying or working abroad has been created in order to facilitate the prospective candidates keep in touch with the latest admission procedure, scholarship opportunities etc. The database is updated time to time.

vi. Career Counseling

Coaching for Civil Service Examination is being offered to Agri-graduates by a cream of outsourced facilities from leading institutions to the students in the off academic hours. This directorate purchases more number of related and relevant books, CD-Roms, reading materials, Journals and leading dailies which are made available to take up tests for self evaluation besides, mock tests are also conducted three times during the course to assess the progress of the students. During 2005, nearly 23 students of which 11 civil service and 12 IFS have passed the tests that constitutes about 40% share in the state of Tamil Nadu.

- Spoken English for career skills with a duration of 4 months is being organized with the help of faculties of reputed institutions and freelance teachers.
- Bank Probationary Officers coaching are conducted utilizing the services of external experts by intense practice and mock testing. First batch of 40 students have rolled out.

- In career guidance, special lectures are organized by utilizing the services of successful IAS, IPS, IFS officers of TNAU alumni.
- Organizes motivation lectures and interaction to the students with successful entrepreneurs.
- Personality development seminars and interactive sessions with professors from universities abroad and consultancy are also arranged.

Candidates selected for placement through campus interviews

Sl. No.	Name of the organization	Date of company interview conducted	No. of students placed
1	M/s. Amrta Herbal Plantation, Kollam	24.05.05	1
2	Directorate of SCMS, TNAU, Coimbatore	24.05.05	23
3	M/s. Ranaday, IMT Technologies Pvt. Ltd, Pune.	24.05.05	2
4	State Bank of India	06.06.05 07.05.05	27
5	M/s. Karnataka Agro Chemicals, Trichy	28.07.05	-
6	M/s. Centre for Environ. Education, Cbe	28.07.05	1
7	ITC – ILTD Division, Gunture, AP	28.07.05	-
8	M/s. Organic Farm, Padappai, Chennai	28.07.05	-
9	M/s. Stangl Pickle & Preserve, Sivagangai	28.07.05	-
10	M/s. Syngenta, Coimbatore	12.08.05	6
11	SAARP and Seera, Erode	12.08.05	-
12	M/s. TNPFP, TNAU, Coimbatore	12.08.05	4
13	M/s. Manali Sugars (I) Ltd., Chennai	12.08.05	2
14	M/s. Bharathi Educational and Social Trust, Udumalaipettai	12.08.05	-
15	ACE Agri. Exports (P) Ltd., Bangalore	12.09.05	1

16	Royal Energy Ltd., Raigad, Maharastra	12.09.05	-
17	M/s. EID Parry (I) Ltd., Cuddalore	12.08.05	-
18	M/s .People Agricultural Farm, Pudukottai	12.08.05	-
19	M./s. Voice Trust, Trichy	12.08.05	2
20	M/s. Golden Fries, Karamadai	03.10.05	-
21	M/s. Mahyco Seed (I) Ltd	03.10.05	2
22	M/s.SPA Agro Ltd., Bangalore	03.10.05	-
23	M/s. SPIC Bio-tech, Chennai	03.10.05	1
24	M/s. Scientific Chemical Lab. Trichy	17.10.05	-
25	M/s. Safal Market, Bangalore	17.10.05	-
26	M/s. TNPL, Karur	09.11.05	4
27	M/s . Ranbaxy, Chennai	09.11.05	4
28	M/s. Dept. of Rice, TNAU, CBE.	09.11.05	3
29	M/s. Bharathi Society, Salem	09.11.05	-
30	M/s. R.V.S., K.V.K. Tenkasi	09.11.05	-
31	AME Foundation, Bangalore	09.11.05	4
32	M/s. Pochi Raju Industries, Hosur	09.01.06	-
33	M/s. Sri Ram Bio Seeds, Hydrabad	09.01.06	1
34	M/s. Syngenta, CBE.	09.01.06	1
35	M/s.CBE Multi Purpose Social Service Society, CBE	09.01.06	-
36	M/s. Known you seeds, Bangalore.	09.01.06	4
37	M/s. Lakshmi Cargo Company, CBE.	09.01.06	2
38	M/s. Godrej Hicare, Chennai.	21.02.06	-
39	M/s. CAI Industries, CBE	21.02.06	2
40	M/s. Sakthi Sugars Soya Division, Pollachi.	21.02.06	2
41	M/s. Kothari Sugars& Chemicals, Trichy.	21.02.06	2

42	M/s. Harrisons Malayalam, Cochin.	21.02.06	1
43	I.A.S.C., Ltd., Coimbatore	21.02.06	2
44	M/s. Senthil Seeds, Dharapuram.	21.02.06	3
45	M/s. Mahalir Narpani Manram Chennai	21.02.06	1
46	M/s. D1 Oils, Coimbatore	10.03.06	2
47	M/s. Madanlal Institute of Applied Manpower Research, New Delhi	21.03.06	3

Other campuses

S1. No.	Name of the college	No. of campus interview conducted	No. of students placed
1	AC & RI, Madurai	11	48
2	HC & RI, Coimbatore	3	10
3	ADAC & RI, Trichy	7	32
4	AEC & RI, Kumulur	5	16
5	AC & RI, Killikulam	8	32
6	HSC & RI, Madurai	18	15
7	FC & RI, Mettupalayam	5	4

Candidates Selected for All India Competitive Examinations – (2005-2006)

S1.No.	Cadre	Name	Rank Number	Campus in which studied
1.	IAS	Mr. Srinivasan	23	ADAC&RI, Trichy
2.	IAS	Mr. D. Balamurugan	163	AC&RI,Coimbatore
3.	IAS / IRS	Mr. A. Sasikumar	173	AC&RI.Coimbatore
4.	IAS	Mr. Murugesan	250	AC&RI, Madurai
5.	IPS	Mr. Ramesh Kumar	233	AC&RI, Madurai
6.	IPS	Mr. Anandha Prakash	176	AC&RI, Madurai
7.	IRS	Mr. Pandian	305	AC&RI, Madurai

8.	IRS	Mr. Paramasivam	384	AC&RI,Coimbatore
9.	IRS	Mr. Divagar	293	AC&RI, Madurai
10.	IRS	Mr. Muthukumar	302	AC&RI,Coimbatore
11.	ICAS	Mr Gandhikumar	341	AC&RI,Coimbatore
12.	IFS	Mr. R. Padmawathe	2	FC&RI, Mettupalayam
13.	IFS	Mr. K. Geethanjali	4	FC&RI, Mettupalayam
14.	IFS	Mr. E. Vikram	5	FC&RI, Mettupalayam
15.	IFS	Mr Georgi P Mathachen	7	FC&RI Mettupalayam
16.	IFS	Mr. Jegadeesan S	9	FC&RI Mettupalayam
17.	IFS	Mr. Pradeepa K	18	AC&RI,Coimbatore
18.	IFS	Mr. Yogaiayanand M	20	FC&RI, Mettupalayam
19.	IFS	Mr. Venkatachalam S	25	FC&RI, Mettupalayam
20.	IFS	Mr. S. Ramesh Kumar	26	AC&RI, Madurai
21.	IFS	Mr. Srinivasan	31	AC&RI,Coimbatore
22.	IFS	Mr. K.S. Ilaiyaraja	387	AC&RI, Madurai
23	IFS	Mr. Ezhilarasan	290	AC&RI, Coimbatore

Candidates Selected for Higher Education Abroad

S1.No.	Name of Student	Name of the country	Course Name
1	Ms. P.G. Kavitha	USA	Ph.D.
2	Ms. D.Vanathy	USA	Ph.D.
3	Mr. Sasikumar	USA	Ph.D.
4	Mr. Sundarp	Taiwan	Ph.D.

5	Mr. Jayakumar	Australia	Ph.D.
6	Mr. B. Muthukumar	Canada	Ph.D.
7	Mr. Rajini	Canada	Ph.D.
8	Mr. Sathyanarayan	Canada	M.S
9	Ms. Akila Devi	Australia	Ph.D.
10	Mr. Thavamani	Australia	Ph.D.
11	Ms. G.Sathya	Canada	M.S
12	Mr. S.S. Ganesh	U.K.	M.S
13	Mr. S. Boopathikumar	Belgium	M.S
14	Ms. Amy John	U.K.	Ph.D.
15	Mr. S. Shiva	U.K.	MBA
16	Mr. Balakumar	USA	Ph.D

3.4. University Library

The University Library provides the life blood of research and Academic Scholarship. As such a library cannot be merely a book warehouses. but also be a dynamic force in stimulating scholarship and research competence. The TNAU Library holds a unique position in that it contribution the academic excellence and research competence of all segments of the University's academic structure. TNAU Library dedicated to the promotion of education, research and extension in Agriculture.

At present the Library has crossed 1,63,226 of Books and Back volumes.

Improvements in the Library

1. 43 Foreign Journals and 78 Indian Journals pertaining to all disciplines have been subscribed for the Year 2006.
2. Creation Archaize Library.
3. Automatic Transaction of books in the counter through Barcode System.
4. Arrangements are being made to put the electronic gate register for readers entry.
5. Separate Annual Report and Research Report are being placed in a separate room for readers use.
6. Agricultural Press News Index is placed in the reference section.
7. Separate section for newsletters from various Institutions and Universities.
8. Nearly 2500 latest subject books were classified and displaced in the respective shelves for readers use.

General Activities

The Library received 1328 issues of Foreign Journals & Indian Journals. Nearly 83 Books on Agriculture and allied subjects were purchased under ICAR development grant for the year 2005-06. 601 books were purchased under regular library budget. 364 books were purchased under Adhi-Dravida Book Bank Scheme. The library collections were utilized by 56 193 scientists and students of the University. 3416 Visitors from other Universities, Colleges and Institutions from Tamil Nadu and neighbouring states utilized our library collections for their research work. Due to its fame through various medias in the recent, past library report records that students from in and around Coimbatore and Colleges from neighbouring states are also benefited.

3.5. Directorate of Open and Distance Learning

Distance Learning Programmes

The Directorate of Open and Distance Learning, one of the constituent units of the TNAU started during April 2005 is vested with the responsibility of offering distance learning programmes through correspondence mode *viz*., Certificate Courses, PG Diploma programmes and PG Degree programmes for the benefit of various segments of the farming community, entrepreneurs, self help groups and other learners who aspire for correspondence education and interested in establishing agro based industries in rural areas. In this direction, the Directorate of Open and Distance Learning has organized the following programmes during 2005 -2006.

Certificate Courses

- Cotton and Maize Hybrid Seed Production
- Sugarcane Production Technology
- Vegetable Seed Production
- Nursery Techniques & Propagation of Horticultural Plants
- Mushroom Production
- Preservation of Fruits and Vegetables
- Wasteland Development

PG Diploma Programmes

- Production and Quality Control in Medicinal Plants
- Food Biotechnology

PG Degree Programmes

- Master of Business Administration (MBA)
- M.Sc. Environmental Management

Future Programmes

Based on the feedback obtained from the learners of certificate courses and others, the Directorate of Open and Distance Learning has organised the following new courses along with the existing courses during 2006 – 2007 as indicated below :

Certificate Courses

- Repair and maintenance of farm equipments and machineries
- Waste recycling and vermicomposting
- Bee keeping
- Cotton Cultivation
- Coconut cultivation

PG Diploma Programmes

- Bioinformatics

Off-Set and printing press

The Off-set and Printing Press of the TNAU is functioning as an important component of the Directorate of Open and Distance Learning. This unit is vested with the responsibility of printing important publications of the university viz., TNAU Newsletter, Valarum Velanmai, Annual Report, Audit Reports, Annual Accounts, Research highlights, etc., All the course materials pertaining to Distance learning programmes are being printed at this unit. Besides this, printing of newsletters and other publications of the Joint Directors of Agriculture are also carried out at the press.

Educational media centre

The Education Media Centre is vested with the responsibility of producing audio and video lessons in agriculture and allied sciences besides production of video programmes to development departments, inputs agencies and voluntary organizations. This unit also engaged in production of television programmes periodically for telecast through Doordarshan Kendra, Chennai. More than 50 video CDs on various subject matter areas were produced by this unit for the benefit of farmers and extension functionaries. Achievements of the centre during the period under report are as follows:

- Video CD lessons sold - 301
- Video shows arranged - 91
- Telecast of TV programmes - 76
- Video coverage's made on important activities - 47
- Video programmes produced - 31
- Coordinated programmes produced - 37

4. RESEARCH

4.1. New crop varieties, Farm Implements and Management Technologies released during 2005-06

1. RICE – ADT (R) 47

Special features

- High yielder
- More number of tillers with long compact panicles
- Medium slender white rice
- Moderately susceptible to stem-borer, leaf hopper, WBPH and sheath blight

Parentage : ADT 43 / Jeeragasamba

Duration (days) : 118

Season : Sornavari (April-May), Kar (May-June), Kuruvai (June-July)

Grain yield

Kg / ha	6200
% increase over	
ADT 36	31.0
ADT 43	21.0
ADT (R) 45	13.0
CO 47	15.5

Highest yield obtained : 10610 kg/ha

Area of adoption : Throughout Tamil Nadu, suitable for all types of soils under wet submerged conditions

Scientists responsible for release

- R.Vaithilingam, A.P.M. Kirubakaran Soundararaj, R.Marimuthu, R.Saraswathi, K.Vijayapriya, B.Chandrasekaran, S.Ramanathan, A.Karthikeyan, G.Ravi, K.Natarajan, N.Chelliah, M.Subramanian, A.Dhakshinamurthi, G.Manimegalai and S.Mohandoss

2. RICE - ADT (R) 48

Special features

- Very early

- Long slender white rice, better than MDU 5 in quality (head rice out-turn, amylose content, gel consistency and organo-leptic test).
- Resistant to stem-borer, green leaf hopper and gall midge

Parentage : IET 11412 / IR 64

Duration (days) : 94 (direct seeding)
99 (Transplanting)

Season : *Late kuruvai* (June-July)

Grain yield

Kg / ha	4800
% increase over	
MDU 5	13.9
ASD 17	21.0

Highest yield obtained : 8750 kg/ha

Area of adoption : Suitable for direct seeding under water scarce contingent situations as well as for transplanting for late *Kuruvai* season in Nagapattinam and Thiruvarur districts

Scientists responsible for release

- J.Ramalingam, R.Saraswathi, R.Marimuthu, K.Amudha, P.Parthasarathy, R.Vaithilingam, S.Ganesh Ram, K.Vijayapriya, A.P.M.Kirubakaran Soundararaj, B.Chandrasekaran, S.Sridharan, A.Karthikeyan, K.Natarajan, N.Chelliah, S.Ramanathan and M.Subramanian

3. WHEAT - COW (W) 1

Special features

- Bread wheat type
- High yielding
- Rust resistant
- Having better chappathi and bread making quality

Parentage : HD 2646 / HW 2002A / CPAN 3057

Duration (days) : 85-90

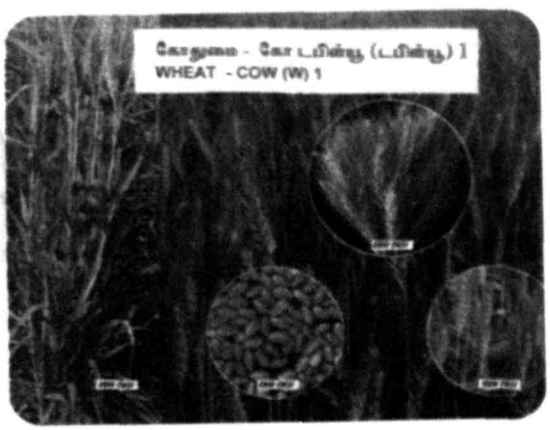
Season : Irrigated : 15thOctober to 15th November

Grain yield

RICE – ADT (R) 47

RICE - ADT (R) 48

WHEAT - COW (W) 1



Kg / ha	2364
% increase over HW 3070	5.4

Highest yield obtained : 6450 kg/ha

Area of adoption : Plains and adjoining areas near to hills and hills in Theni, Dindigul, Karur, Coimbatore, Erode, Salem, Dharmapuri, Vellore, Thiruvannamalai & Kancheepuram districts.

Scientists responsible for release

- M.Sivasamy, A.J Prabakaran, K.A.Nayeem (IARI, RS, Wellington), N.Senthil, G.Nallathambi, S Arumugasamy, B Meenakumari, B Selvi, K.Mohanasundaram and T.S Raveendran (TNAU)

4. TENAI - CO (Te) 7

Special features

- Bold grains
- Resistant to lodging
- Suitable for rainfed condition
- High protein (13.62%) and Calcium (0.5%)
- Tolerant to leaf blast and rust
- Suitable for low rainfall and low fertile soils

Parentage : CO 5 / ISE 248

Duration (days) : 85-90

Season : Kharif (Adipattam) and Rabi (Purattasi pattam)

Grain yield

Kg / ha	1855
% increase over CO 6	19.4

Highest yield obtained : 4494kg/ha

Area of adoption : Salem, Villupuram, Namakkal, Thiruvannamalai, Dharamapuri, Dindigul, Tuticorin, Madurai, Virudhunagar, Vellore, Erode and Nilgiri districts

Scientists responsible for release

- A.Nirmalakumari, N.Senthil, A.John Joel, N.Kumaravadivel, B.Selvi, K.Mohanasundaram, N.Subbaraman, T.S.Raveendran, A.Ramanathan, V.Mallikavanangamudi and K.Ramamoorthy

5. REDGRAM - VBN (Rg) 3

Special features

- High yielding
- Plants open type
- Early maturity
- Resistant to Sterility Mosaic Disease (SMD)
- Tolerant to pod borer
- High protein content (21.1%)

Parentage : Vamban1 / Gulburga

Duration (days) : 100-105

Season : All seasons

Yield

Kg / ha	884
% increase over	
Vamban 1	22.0
APK 1	14.0

Highest yield obtained : 1530 kg/ha

Area of adoption : Entire Tamil Nadu. Suitable to all types of soil

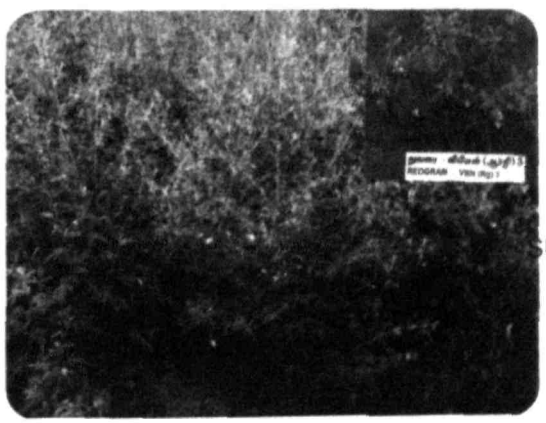
Scientists responsible for release
E.Murugan, S.Jebaraj, M.Pandiyan, P.Shanthi, K.Mohanasundaram, G.Gajendran and K.Sethuraman

6. SOYABEAN - CO (Soy) 3

Special features

- Photoinsensitive
- Medium duration

TENAI - CO (Te) 7



REDGRAM - VBN (Rg) 3

SOYABEAN - CO (Soy) 3

- Creamy yellow seeds with high oil and protein content
- Resistant to Yellow Mosaic Virus at field condition

Parentage : UGM 69 / JS335

Duration (days) : 85-90

Season : June-July,
Sept.-October

Yield

Kg / ha	1366
% increase over CO 2	22.9

Highest yield obtained : 2500 kg/ha

Area of adoption : Erode and Coimbatore districts

Scientists responsible for release

- B.Subbalakshmi, D.Sassi kumar, A.R.Muthiah, T Kalaimagal, N.Kumaravadivel, P.Veerabadhiran, S.Rajarathinam and T.S.Raveendran

7. SESAMUM – VRI (Sv) 2

Special features

- High yielding
- Seeds reddish brown colour
- Moderately resistant to shoot webber and diseases like phyllody and root rot
- High oil content (51.9%) with high poly unsaturated fatty acid (80.1%)

Parentage : VS 9003 / TMV 6

Duration (days) : 80-85

Season : Rainfed : Rabi (November – December)
Irrigated : Summer (February – March)

Yield

	Irrigated	Rainfed
Kg / ha	726	706
% increase over		
VRI (Sv) 1	14.0	14.0

CO 1	22.0	12.0
TMV 3	-	14.0
TMV 4	7.0	-
TMV 6	15.0	-

Highest yield obtained : 1740 kg/ha

Area of adoption : Sesame growing districts in Tamil Nadu

Scientists responsible for release

- G.Nallathambi, V.Manoharan, K.Nilakandapillai, P.Vindhiyavarman, P.Ramasamy, A.Mothilal, K.Sachithanantham, V R.Saminathan and B.Chandrasekaran

8. SUGARCANE - CO Si (SC) 6

Special features

- Very thick and erect canes, non flowering and easily detrashable
- CCS % : 12.3
- Very good ratooner and suitable for early drought and late water logging
- Suitable for sodic soil conditions
- Moderately resistant to red rot
- Moderately susceptible to early shoot borer and inter node borer

Parentage : CO 8213 / CO A 7602

Duration (days) : 360

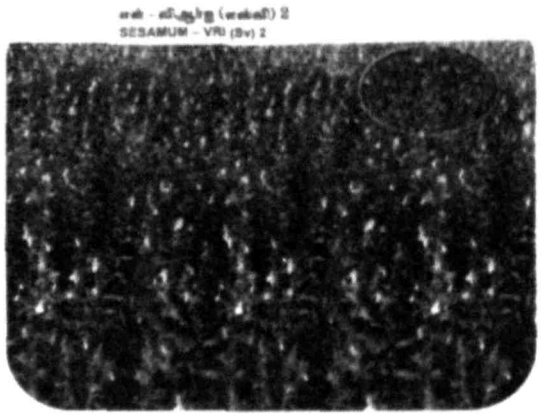
Season : Early (December-January)

Yield

	Cane	Sugar
t / ha (plant crop)	148.0	18.1
% increase over		
CO Si 95071	10.9	14.5
CO 86032	14.0	13.8
CO 86249	12.5	26.5

Highest yield obtained : 188 t/ha

Area of adoption : Delta zone of Tamil Nadu (Trichy and Tanjore), Salem, Erode and Southern districts



SESAMUM – VRI (SV) 2

SUGARCANE - CO Si (SC) 6

SUGARCANE - COG (SC) 5

Scientists responsible for release

- S.Geetha, D.Packiaraj, J.Karamathullah, G.Manickam, S.Subramanian, K.Prabakar, H.Vijayaraghavan, T.Kalaimani, K.Kannappan, R.S.Purushothaman, S.Muralikrishnasamy, S.Nasir Ahmed, R.Durai, V.K.Ravichandran, M.Jayachandran, N.Tamilselvan, V.Ganesaraja and I.Mohamed Iqbal

9. SUGARCANE - COG (SC) 5

Special features

- Yellowish green medium thick cane, more number of millable cane
- Erect, non flowering and non lodging
- Moderately resistant to red rot and smut
- Good ratooning ability and suitable for drought condition
- CCS% : 13.0; good for jaggery making
- Suitable for problem soils including tannery effluent affected soils

Parentage : COC 671 / COT 8201

Duration (days) : 330 - 360

Season : Mid-late (February – May)

Yield

	Normal soil		Problem soil	
	Cane	Sugar	Cane	Sugar
t / ha (plant crop)	120.9	15.6	103.9	13.5
% increase				
COG 93076	23.7	27.9	57.0	68.8
COG 95076	33.4	38.1	26.9	33.7
CO 86032	14.9	15.6	-	-

Highest yield obtained : 165 t/ha in problem soil

Area of adoption : Suited for normal and tannery effluent affected soils of Tamil Nadu

Scientists responsible for release

- S.R.Venkatachalam, K.Koodalingam, R.Durai, A.Thirumurugan, T.L.Baskaran, S.Enayathullah Shah, G. Manickam, J.Karamathullah, T.Kalaimani, S.Nasir Ahmed, S.Muralikrishnasamy, N.Tamilselvan, M.Jayachandran, V.K.Ravichandran and V.Ganesaraja

10. NEW ZEALAND SPINACH - OOTY (Sp) 1

Special features

- High yield potential, the leaves are attractive green in colour with excellent cooking quality.
- Leaves contain high Protein (28.79 %), Fat (4%) Calcium (0.34%) and Magnesium (0.084%)
- Highly resistant to drought and frost, can be grown as a cover crop.
- Resistant to *Cercospora* leaf spot, root knot nematode, whiteflies and aphids.
- Good keeping quality upto 6 days in hills and 3 days in plains after harvest, which facilitates to market to the distant places.

Parentage : Pure line selection from germplasm types

Duration (days) : 135

Season : Main (April-June), autumn (Aug.–Oct.) and irrigated (February - April)

Yield

	Greens
t / ha	33.8
% increase over Local	38.5

Highest yield obtained : 35 t/ha

Area of adoption : In Nilgiris 900 to 2500 m above MSL and similar areas. Suitable for well drained loamy soil with a pH of 3.5-6.0

Scientists responsible for release

- N.Selvaraj, B.Ramaraj, L.Mohan, B.Anita, K.Shoba, D.Vijayalakshmi, V.Hema, B.Anusha, S.Jeyalakshmi, S.Maheswari and N.Anandha Krishnan

11. GUAVA - TRY (G) 1

Special features

- Off season bearing, shiny greenish yellow fruit with desirable aroma
- High TSS (10° Brix) & ascorbic acid (180.8 mg/100 g. edible part)
- Organoleptic evaluation – better than Lucknow 46 & 49
- Resistant to fruit fly and tolerant to mealy bug, scale, mite and wilt
- Drought and sodicity tolerant

Parentage : Elite mother plant from assembled unknown population at ADAC&RI, Trichy identified

Duration (days) : Perennial (started bearing 6 months after planting but may be allowed after 2nd year onwards. Upto 25 years gives good yield)

Season : Bears throughout the year with two peak seasons : July–Aug. and Dec.–Jan.

Yield (average in kgs) :

	Per tree	Per ha
TRY (G) 1	40.52	16348
Lucknow 46	41.50	16601
Lucknow 49	52.69	21081

Yield of checks Lucknow 46 & 49 not compared since the new variety has been promoted for its good quality traits

Highest yield obtained : 46.26 kg/tree

Area of adoption : Can be grown throughout Tamil Nadu. Particularly under salt affected soil and stress conditions.

Scientists responsible for release

- Mr.Arukutti, S.Nambison, S.Sathiyamoorthy, S.Balasubramanyan, K.Manivannan, T.N.Balamohan and R.Arulmozhiyan

FARM IMPLEMENTS

1. POWER TILLER OPERATED AIR ASSISTED SEED DRILL

Special features

- Suitable for sowing small seeds like sesame, cumbu, horsegram and sorghum.
- Spacing between the rows can be adjusted from 30 to 60 cm.
- Suitable for all makes of 10 to 12 hp power tiller.
- Saves time and cost of sowing

Cost of the unit : Rs.7,500/-

Area coverage : 2 to 2.5 ha/day

Cost of operation	: Rs.100/hr
Savings in time	: 80%
Savings in sowing cost	: 50%
Scientists responsible for release	: B.Shridar, T.V.Job, K.Kathirvel and R.Manian

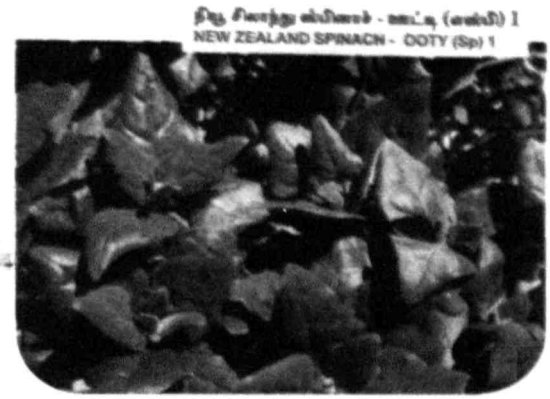
2. PEELER CUM WASHER FOR PRODUCTION OF WHITE PEPPER

Special features

- Suitable for the production of white pepper hygienically (since retting is not required) from ripe pepper berries.
- 1 hp power is required for power operated unit.
- Water fed inside the peeling champer helps easy peeling and removal of skin after peeling
- Water requirement is 50% less because it is recirculated during washing
- The same unit can be operated manually during electricity failure.

Cost of unit	: Rs.15,000 (appxo.)
Capacity	
Power operated unit	: 125 kg/hr
Hand operated unit	: 15 kg/ha
Cost of production	
Power operated unit	: Rs.65/quintal
Hand operated unit	: Rs.460/quintal
Manual method	: Rs.850/quintal
Efficiency of the unit	: 91%
Scientists responsible for release	: V.Thirupathi and R.Viswanathan

NEW ZEALAND SPINACH –
OOTY (Sp) 1



GUAVA - TRY (G) 1

POWER TILLER OPERATED
AIR ASSISTED SEED DRILL

3. HAND OPERATED ROTARY TYPE CLEANER CUM GRADER FOR PEPPER AND CARDAMOM

Special features

- Suitable for cleaning and grading into two or three grades
- Manually operated and does not depend on electricity and fuel
- Can be used for other crops also by changing the sieves

	Pepper	Cardamon
Cost of the unit (Rs.)	7500	
Capacity (kg/hr)	150	200
Cost of operation (Rs/q)	30	25
Savings in time (%)	75	75
Savings in cost (%)	80	80

Scientists responsible for release : R Viswanathan
M Balakrishnan
and V.V.Sreenarayanan

4. HAND OPERATED ROTARY TYPE GARBLING UNIT FOR CARDAMOM

Special features

- Hand operated unit
- Suitable for garbling dried cardamom
- Capacity is 5 kg of cardamom per batch and time taken is 2- 5 minutes per batch
- Efficiency of garbling is 98%
- Percentage broken is less than 5%
- Reduces drudgery to the labourers

Cost of the unit : Rs.4,000/-

Capacity of the unit : 100 kg/hr

Cost of operation : Rs.150/quintal

Savings in time : 50%

Savings in cost : 66%

Scientists responsible for release : R.Viswanathan
M.Balakrishnan and V.V.Sreenarayanan

5. 10 m^3 HIGH RATE REACTOR FOR CASSAVA STARCH FACTORY EFFLUENTS (SAGO EFFLUENTS)

Special features

- Promising technology for energy production
- Pollution reduction and ease of operation
- High rate reactor for treating 7000 litres of sago effluents per day
- Suitable for small and medium scale sago industries

Cost of plant : 1.5 lakhs

Biogas production : 10 m^3 / day

Cost of gas production : Rs.35/- / day

BOD reduction : Upto 80%

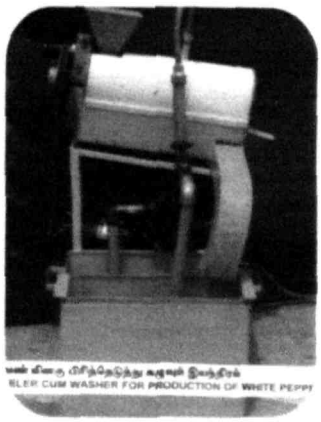
Scientists responsible for release : N.O.Gopal, A.Sampathrajan, A.Kamaraj, S.Kulanthaisamy, P.Venkatachalam, P.Duraisamy, M.Singaravelu and G.Chinnanchetty

MANAGEMENT TECHNOLOGIES

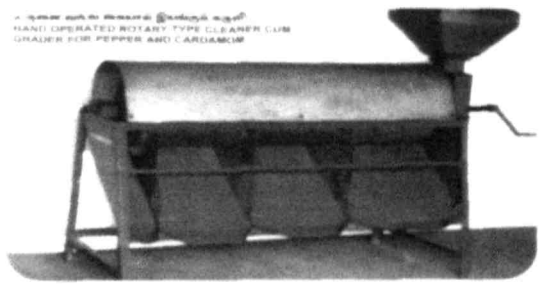
1. ADOPTABLE SRIVILLIPUTTUR IPM MODULE (ASIPM) FOR SUMMER IRRIGATED AND RICE FALLOW COTTON

Details of Technology

- Basal application of neem cake @ 150 kg/ha and drenching with 1% neem oil at 20 DAS
- Treat the acid delinted seeds with imidacloprid 70WS @ 5g/kg and *Trichoderma viride* @ 4g/kg
- Use of eco-feast crops viz., cowpea as intercrop and maize and castor as border crops for conservation and augmentation of natural enemy population
- Use of yellow sticky traps for whitefly, Pheromone traps for bollworms *viz.*, American bollworm (*Helicoverpa armigera*)and pink bollworm (*Pectinophora gossypiella*).
- Release of *Trichogramma* twice at 15 days interval (coinciding with *H.armigera* incidence)
- ETL based protection with safer chemical pesticides.

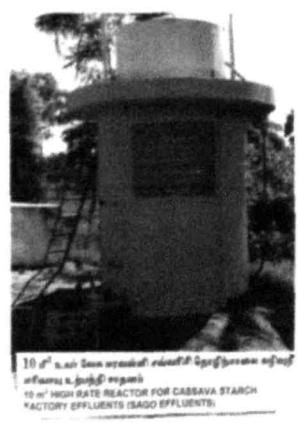


'PEELER CUM WASHER
FOR PRODUCTION OF
WHITE PEPPER



HAND OPERATED ROTARY
TYPE CLEANER CUM GRADER
FOR PEPPER AND CARDAMOM

HAND OPERATED ROTARY
TYPE GARBLING UNIT
FOR CARDAMOM



10 m^3 HIGH RATE REACTOR FOR
CASSAVA STARCH FACTORY
EFFLUENTS (SAGO EFFLUENTS)

Benefits

- Location specific IPM module recommended for Summer irrigated and Rice Fallow Cotton
- ASIPM module registered 80.5, 73.6 and 75.6 % decrease of thrips, aphids and leafhopper population over Farmers Practice (FP)
- Stem weevil incidence was 18.4 % (49.5 % in FP)
- Incidence of bollworms viz., *Earias vitella*, , *H armigera*, *Pectinophora gossypiella* was lowered by 47, 66 and 58 % respectively in IPM module
- Population build up of coccinellids was higher in IPM module due to usage of ecofriendly pesticides and neem compunds
- ASIPM module registered the lowest Environmental Impact Quotient (EIQ) of 23.67 compared to 382.43 in Non IPM module

Economics

Particulars	ASIPM	Non IPM
Cost (Rs.)	13560	11600
Yield (kg/ha)	1805	1354
Gross income (Rs.)	36100	27080
Profit (Rs.)	22540	15480
C:B ratio	1:2.02	1:1.69
Environment Impact Quotient	23.67	382.43
Additional cost (Rs/ha)	1960	
Additional returns (Rs/ha)	7060	
Added impact on Environment by increased use of pesticides in Non-IPM module	–	358.76

Scientists responsible for release

- S.Subramanian, S.V.Krishnamoorthy, R.Nalini, N.Murugesan, P.Chandramani, N.Sivasamy, M.Suriachandraselvan, R.Vimala, P.Amala Balu and R.Balasubramanian

2. POST- EMERGENCE MANAGEMENT OF PARASITIC WEED *STRIGA ASIATICA* IN SUGARCANE

Details of Technology

- Pre-emergence application of atrazine 1.0 kg/ha on third day after planting + hand weeding on 45 DAP with an earthing up on 60 DAP combined with post-emergence spraying of 2,4-D sodium salt 5g / litre (0.5%) + urea 20g / litre (2%) on 90 DAP for complete control

Benefits

- Complete control of parasitic weed *Striga asiatica*
- Seed production by *Striga asiatica* is avoided
- Higher cane & sugar yields and additional returns
- Environmentally safe technology

Economics

Technology	Striga control efficiency (%)	Cane yield (t / ha)	Cost of technology (Rs. / ha)	Net returns (Rs. / ha)	Additional returns (Rs. / ha)
Pre-emergence spraying of atrazine 1.0 kg/ha on 3DAP+HW on 45&90 DAP	**42.6**	**91.6**	**5,120**	**36,500**	--
Post-emergence spraying of 2,4-D Na salt 5 g / litre on 90 DAP	**87.2**	**106.8**	**5,800**	**41,235**	**4,735**
Post-emergence spraying of 2,4-D Na salt 5 g/litre (0.5%) + urea 20 g / litre (2%) on 90 DAP	**99.3**	**138.6**	**5,880**	**71,560**	**35,060**

Scientists responsible for release

- C.Chinnusamy and O.S. Kandasamy

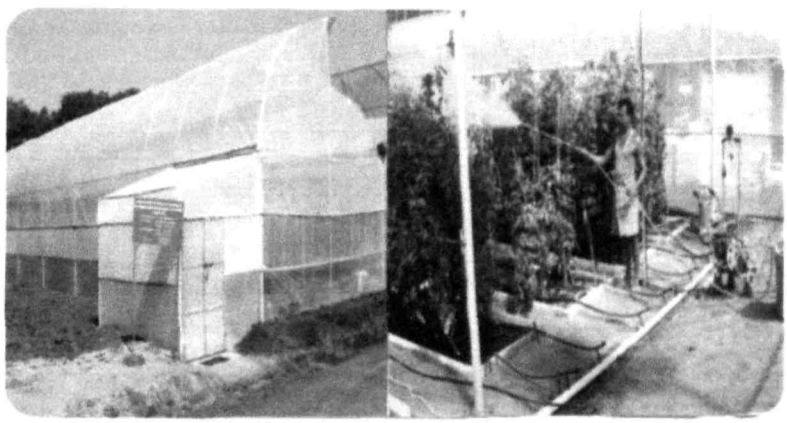
3. PRODUCTION PRACTICES FOR CULTIVATION OF *CAPSICUM* AND TOMATO IN POLYHOUSE

Details of Technology

- The growing medium, irrigation regime, fertilizer application and mulching for capsicum (hybrid Indra) and tomato (hybrid SH 7711) under naturally ventilated polyhouse conditions were standardized

	Capsicum	Tomato
Growing medium	Soil : FYM : composted coir pith (2:1:1).	
Irrigation regime	20 kPa	
Fertilizer application	Basal – NPK each @ 50 kg / ha through straight fertilizers Fertigation - NPK each @ 150 kg / ha through water soluble fertilizer	Fertigation - NPK each @ 250 kg / ha through water soluble fertilizer
Mulching	Black polyethylene sheet (50 micron)	

POST- EMERGENCE MANAGEMENT OF PARASITIC WEED *STRIGA ASIATICA* IN SUGARCANE



PRODUCTION PRACTICES FOR CULTIVATION OF *CAPSICUM* AND TOMATO IN POLYHOUSE

INTEGRATED PEST MANAGEMENT IN OTTON VALUE ADDED CABBAGE

Benefits

- Ensures high productivity with good quality produce in capsicum and tomato
- Acts as mechanical barrier to pests and vectors of viral diseases
- Regulation of microclimate in the polyhouse will minimize the crop loss due to abiotic stresses.
- An eco-friendly production system, which minimizes the use of harmful pesticides significantly.
- Beneficial for off -season production and removing seasonality barrier

Economics

	Capsicum	Tomato
Yield (t/ha)	143	176
B/C ratio	3.40	1.76

Scientists responsible for release

- S.Natarajan, D.Veeraragavathatham, E.Vadivel, L.Pugalendhi, S Sasikala, G.R.Kumaresan and K.Srinivasan

4. VALUE ADDED CABBAGE

Details of Technology

- Select matured clean cabbage
- Shred it to 5 mm size and mix with 2.5 % salt
- Pack it layer by layer in a container,2/3 height
- Seal hermetically & allow for natural fermentation at room temp.
- Blanch it at 70 ^{0} C for 10 min, after 28 days
- Store under shade in clean place and use it within four months

Benefits

- Fermented cabbage releases isothiocyanate from glucosinolate present in th cabbage, which fights against cancer.
- Consumption of value added cabbage reduces the risk of cancer on breas lungs & colon
- Reduces post harvest losses during peak season and also has expo potential.

Economics

- Cost of production : Rs.50 / kg
- Cost of imported saurkraut : Rs.350 / kg

Scientists responsible for release

- R. Kailappan, Z. John kennedy and Saraswathy Eswaran

4.2. AGRICULTURAL CROPS

4.2.1. CEREALS

RICE

Crop Improvement

For adoption

New Hybrid Release: CORH 3

A new high yielding rice hybrid. CORH 3 is released in 2006. This is a cross of TNAUCMS2A /CB87R. The hybrid on an average yields 7.2 tons / ha but has a potential yield of 10.0 tons/ha. It is early (115 days) in duration, medium tall and non-lodging. The hybrid produces white fine rice which is non-sticky, non-aromatic and possesses good keeping quality. It is also tolerant to blast and RTD and resistant to leaf hoppers.

For on-farm testing

Cultures identified for ART/ OFT

CB01105 (CO43/ ASD19)

This culture matures in 135 days and yields 6.0 t/ ha which was 12% higher than IWPonni and BPT5204. The culture possesses medium slender white rice with superior cooking quality. It is tolerant to blast and RTD. CB01105 is suitable for samba season and has been recommended for release during 2007.

CB21001 (AD93019/ ADT41)

This culture with an average yield of 5100 Kg/ ha which is 8.2 and 16.4% higher than ADT42 and ASD16 matures in 125 days. This culture is to be evaluated under ART alongwith the checks ADT42 and ASD16. This is moderately resistant to leaf folder, stem borer, brown spot and sheath rot. The culture has good grain attributes with acceptable cooking quality.

CB01001 (CO43/ADT38)

This culture matures in 135 days and gives a mean yield of 5800 Kg/ha. It is moderately resistant to blast and RTD. It is non-lodging with long panicles and medium slender white rice. Suitable for samba season and is tested in ART 2006.

CB99019 (C20/RNR52147)

It is a medium duration (135 days) fine grain pre release culture being tested in ART. This culture is moderately resistant to blast and yields 10% higher than BPT5204. It produces medium slender fine white rice having a linear elongation ratio (on cooking) of 1.90 similar to BPT5204.

CB200290 (Basmati 370 / ASD16)

This culture maturing in 125 days possesses long slender aromatic rice similar to Basmati. This culture matures earlier than Pusa basmati (135 days) but yields on par. CB200290 with a mean yield of 5.5 tons/ha is suitable for thaladi season and is to be tested under OFT in comparison with Pusa Basmati.

For information

Cultures in MLT

- Three prerelease cultures viz , CB04110, CB02586, CB02595 with higher yield, resistance against major pests and diseases and improved grain quality matching to BPT5204, IWP and ADT43 respectively have been evolved.
- One pre-release culture CB99170 produces short bold white rice suitable for idly making and it is considered to substitute ASD16.
- CB01508, a mid early duration (125 days) culture with medium slender fine white rice has been developed to substitute ADT39.
- CB03008 and CB03039, two new medium duration cultures with medium slender fine white rice have been developed. They are being evaluated under MLT.
- Two new early duration hybrids TNRH 142 and TNRH 145 have been evolved utilizing the non aromatic male sterile cytoplasm and are under evaluation in MLT.
- One medium duration hybrid TNRH158 has also been developed and is being tested in MLT

On farm trial

- Development of seed and nutrient management techniques for elite seedling production under SRI technique for rice varieties in different duration groups
- Development of designer seed for paddy
- Standardization of hybrid rice seed production techniques for the hybrids under pipeline

Crop Management

For information

- Thin layer drying or sun drying was found to be more beneficial for paddy seed drying. The seed moisture content can be brought down to around 8 - 7 (%) and stored in polythene bag (700 gauge) for better maintenance of shelf life of paddy seeds.
- In SRI method of cultivation the plant characters of plant height, number of productive tillers and total tillers and yield characters of seeds/ panicle, and seed yield were maximum than the normal method of cultivation . The earliness in flowering was observed in SRI method. The seed yield under SRI method was 20% more than normal method. The seed quality

characters of germination, seedling length, and dry weight of seedling and vigour index were also superior than the normal method of cultivation.

- The seed quality evaluation after two and four months of storage indicated that the seeds maintained their germination at higher level at 10 and 12% moisture contents where as at 14% moisture content a slight reduction in germination was recorded.
- For elite seedling production under SRI technique for rice varieties, seed fortification with GA_3 100 ppm combined with foliar spray of 0.5% DAP at 9^{th} and 12^{th} DAS was found to be the best treatment.

For Information

1. Package of practices for Aerobic rice

Season : June to September & September – October to January

Variety : PMK 3

Seed rate : 30 - 35 kg/ha

Seed treatment : Soaking in water 10 hrs, Incubation 10 hrs
Pseudomonas 10 g / kg of seeds + Azophos 600 g/ha of seeds

Seed bed preparation : Primary, Secondary tillage and leveling. Gypsum 500 kg/ha during last ploughing

Sowing : 20 X 10 cm, shallow depth (1-2 cm)

Weed management : Pre-emergence - Pendimethalin @ 0.75 kg/ha 3 DAS + HW at 25 and 45 DAS.

Fertilizer application : Recommended dose : 150 : 50 : 50 kg NPK /ha

Foliar spray of 1 % $FeSO_4$ three times at an interval of 15 days starting from 45 DAS

Irrigation : Immediately after sowing
Irrigate at IW/CPE ration of 1.0 with 2.5 cm depth of water up to 30 DAS
Irrigation at IW/CPE ration of 1.0 with 3 cm depth of water up to15 days prior to harvest

2. Genotypic divergence in tolerance to Zinc stress

Land races are tolerant to Zn stress. For Zn efficient genotypes (Norungan, ASD) 12.5 kg $ZnSO_4$ / ha + 0.5 % foliar spray at 20 and 40 DAT, for moderately efficient genotypes (White Ponni, CO 47) 25 kg $ZnSO_4$ / ha and for Zn inefficient genotypes (ADT 38, PMK 3) 37.5 kg $ZnSO_4$ / ha resulted in enhanced yield.

3. Alleviation of copper deficiency in irrigated lowland rice

Application of 5 kg $CuSO_4$ in enriched form with FYM per hectare at planting is found beneficial

4. Integrated weed management for transplanted rice

Butachlor 0.75 kg + Bensulfuron methyl 50 g/ha on 3 DAT + HW on 30 DAT

5. Biofertilizer consortia for lowland rice

Azophos (5 kg/ha) + PGPR (5 kg/ha) as seed treatment, seedling dipping and soil application.

6. Nitrogen application using LCC in rainfed rice

LCC 3 based N application @ 40 kg N/ha per time coupled with closer spacing 10X10 cm and 25:25 kg P&K / ha recorded higher yield

The following practices proposed for On-Farm Testing

1. Elite rice seedling production under modified mat nursery
2. LCC based N management for irrigated rice
3. Evaluation of biofertilizer consortia for lowland rice
4. Integrated weed management for single crop rice
5. Integrated weed management for rainfed direct seeded rice under seed drill sown crop
6. LCC based N management for rainfed rice
7. Integration of SSNM in ICM for irrigated rice

Crop Protection

For Adoption

Management of rice leaf mite

Results of three OFT's showed that need based spraying of spiromecifen 240 SC at 300 ml/ha and profenophos 50 EC at 1000 ml/ha caused 99 and 85% mortality of mites, respectively with higher yield and cost benefit ratios of 6.5 and 5.0 respectively.

Effect of acaricides on rice leaf mites

Treatments	Dose/ ml /ha	Mite Population No/cm^2	Per cent mortality	Yield (kg ha^{-1})	C:B Ratio
Spiromecifen 240 SC	300	2.15[a]	99.2[a]	5029[a]	6.51

Profenophos 50 EC	1000	4.25[b]	84.5[a]	4841[b]	5.03
Dicofol 18.5 EC	2700	4.50[b]	88.6[a]	4831[b]	2.57
Untreated check	-	9.56[c]	0.00	3945[c]	-

*(Pooled Mean. Aduthurai, Tirur and Thanjavur)

Recommendation:

Since spiromencifen 240 SC has not been registered by Central Insecticides Board, Profenophos 50 EC is recommended for adoption.

Management of green leaf hopper

Results of OFT

Profenophos 50 EC 1000 ml and imidacloprid 200 SL 100 ml recorded the lowest GLH population (2.3 to 2.4/hill) compared to 12.7/hill in untreated check. These treatments also recorded higher yield with cost benefit ratio of 3.98 to 6.21

Effect of insecticides on GLH

Treatments	Dose (/ha)	Mean of three observations*					
		Population (No./hill)					
		ADT	KKM	Tirur	Mean	Yield Kg/ha	C:B
Profenophos 50 EC	1000 ml	1.1	4.7	0.83	**2.26**	4603	**3.98**
Imidacloprid 200 SL	100 ml	1.2	5.3	1.08	**2.44**	4791	**6.21**
Acorus calamus 10 D (ACK 10 D 2%)	25 kg	2.2	11.8	2.58	**5.53**	4303	2.91
Neem oil 3%	6 lit.	1.8	9.8	1.17	**4.26**	4091	3.52
Untreated check	-	4.5	24.5	9.17	**12.72**	2945	-

*(Pooled Mean: Aduthurai, Killikulam and Tirur)

Recommendation

Spray application (ETL based) of either profenophos 50 EC 1000 ml or imidacloprid 200 SL 100 ml / ha is recommended for the green leaf hopper management.

Profenophos 50 EC has already been recommended for the management of stem borer, leaffolder and mite.

Management of sheath blight using Neem products

Among the three neem formulations tested, Azadiractin 1.0% EC 3ml/lit reduced the sheath blight with disease severity to 14 per cent as against 33.4 per cent in control. The mean yield was 4713 kg/ha as against 3779 kg/ha in control. The cost benefit ratio was 1:3

Standardization of effective spray schedule for the management of grain discoloration

For the management of Grain Discolouration recommendation was spray application of Mancozeb 1kg/ha or IBP 500 ml/ha or Carbendazim 250g/ha at boot leaf stage (CPG-1999). Having understood the nature of pathogens involved the recommendation was revised to spray Carbendazim + Thiram (1:1) 0.2% In order to decide critical time of application the experiment was conducted. The recommendation is revised.

Two sprays of carbendazim+thiram (1:1) 0.2% or *Pf* 1 0.5% at boot leaf and milky stages were very effective in containing the grain discolouration with lesser disease severity of 16.0% and higher grain yield of 4009 kg/ha. The treatment recorded a C:B ratio of 1:3.9. The treatment was superior over the existing recommendation which recorded 21.5% disease severity and grain yield of 3725 kg/ha.

Standardization of effective spray schedule for the management of grain discoloration

Treatment*	Grain discoloration (%)	Grain yield (Kg/ha)	CB ratio
Carbendazim+Thiram (1:1) 0.2% spray at boot leaf & milky stage	16.0	4009	3.9
Carbendazim+Thiram (1:1) 0.2% spray at milky stage alone (CSM 2004)	21.5	3725	3.6
Pf 1 0.5% spray at boot leaf and milky stage	22.0	3860	3.6
Untreated check	34.9	3482	-

(*Pooled mean of Aduthurai, Ambasamudram and Coimbatore)

On Farm Testing

Management of rice leaf folder and stem borer

Spraying indoxacarb 15 EC @ 200ml/ha was found effective against rice leaffolder and stem borer with mean damage of 1.52 and 0.71% respectively as against 4.0 and 2.0% in the standard check. Yield was also comparable with

standard check but with a low C:B ratio. Though C:B ratio was low, *in lieu* of phasing out of standard check this may be included.

Observations to be recorded:

1. Leaf damage, dead heart and white ear
2. Observation on the natural enemies
3. Yield
4. C:B ratio

Efficacy of Neem Sweet-P 60 EC against rice leaf folder, *C. medinalis* on rice

Two season field trials laid out to test the efficacy of Neem sweet-P60 EC against rice leaf folder at AC & RI, Madurai indicated that spraying NSP 60 IC @ 0.24 and 0.36% effectively reduced the leaf folder infestation (4.3 - 10.5%) and supported more numbers of spiders (5.7 to 6.3%) and coccinellids (4.3- 5.2%) recording high yield with a C:B ratio of 1.96 to 2.27.

Observations to be recorded:

1. Per cent damaged leaves
2. Other pests if any
3. Natural enemies
4. Yield
5. C:B ratio

MILLETS

SORGHUM

For on-farm testing

A high yielding dual purpose sorghum culture TNS 595 (TNS 586 x SPV 1472) has been identified for ART during 2006-07. This culture has recorded a grain yield of 3753 kg/ha and the dry straw yield of 9390 kg/ha as against the check CO(S) 28 (3434 kg/ha and 9145 kg/ha respectively). It was also found to be moderately resistant to shootfly.

For Information

Eight promising sorghum cultures identified from the advanced trials were tested under University Varietal Trial. Among the cultures TNS 599 was found to be superior with a grain yield of 3240 kg/ha registering an increase of 18.0% over the check CO(S) 28 (2745 kg/ha).

Sweet sorghum hybrid development programme was intensified during 2005 and a total of 132 hybrids was synthesized using CGMS system. Among the hybrids BJ 3A x RSSV 9, AKMS 14A x SSV 84, AKMS 22A x SSV 84, AKMS 22A x RSSV 9 and AKMS 14A x RSSV 9 registered high cane yield (39.5 to 53 t/ha) and high total sugars (13.90 to 14.73%)

MAIZE

1. Drip fertigation in maize based cropping sequence

Drip fertigation with 125 % rec. NPK recorded higher yield of maize (4472 kg ha^{-1}) which was comparable with drip fertigation with 100 % rec. NPK (135 : 62.5 : 50 kg NPK ha^{-1}) (4051 kg ha^{-1}) with a B:C ratio of 1.85

RAGI

Eco-friendly management of ragi blast (leaf, neck, and finger)

Effect of seed treatment and foliar spray of chemical / biocontrol agent on blasts of ragi

S. No.	Treatments*	Leaf blast (PDI)	Neck blast (%)	Finger blast (%)	Yield (kg/ha)	C:B ratio
1.	P. fluorescens seed treatment and two foliar sprays	20.0[a]	3.0[a]	5.0[a]	3325[a]	1:2.9
2.	Carbendazim seed treatment and two foliar sprays	18.0[a]	5.0[a]	4.6[a]	3200[a]	1:2.7
3.	Unsprayed control	82.0[b]	20.0[b]	25.0[b]	2650[b]	

* Mean of 20 demonstrations conducted in the farmers field at Hosur and Thenkanikottai taluk of Krishagiri district

Recommendation

1. Seed treatment with *P.fluorescens* @ 10g/kg followed by two foliar spray application of *P. fluorescens* (0.2%) was found to be effective in containing leaf, neck and finger blast of ragi.

2. The ragi culture TNAU 1005 (CO 10 x TNAU 946) which matures in 102 days with the highest grain yield of 2593kg/ha will be tested in ART during 2006-07

Production technology for organic finger millet

- Finger millet + pigeon pea at 8:2 row proportion + FYM @12.5 t ha^{-1} with biopesticide / biofungicide registered a grain yield of 2857 kg ha^{-1} and B: C ratio of 3.11. An additional grain yield of pigeon pea (252 kg ha^{-1}) was obtained.

Investigation on enrichment and method of application of FYM on rainfed finger millet

- Plough sole placement of FYM @ 2 t ha^{-1} enriched with recommended dose of P (20 $kgha^{-1}$) + 100 % N and K (40 and 20 kg ha^{-1}, respectively) registered higher grain yield (3309 kg/ha) and net return (Rs.13,532/- ; B:C ratio 2.89).

Studies on profitable exploitation of atmospheric nitrogen fixation in forage legumes and the efficiency of N fixation as influenced by inorganic and bio-fertilizer application

- In millet and forage legumes intercropping system the percent increase in total N status of the soil is in the following order : Sorghum + Lucerne: 61.2, Maize + Lucerne : 57.7; Pearl millet + Lucerne : 64.2.

Integrated farming system for sustainable agriculture in dryland vertisol

- The total gross income for three years period was higher (Rs. 100322 / ac) in IFS model having crop + goat (3+1) + sheep (5+1) + dairy (1) with net income of Rs. 46354 / ac and B : C ratio of 1.86.

OTHER SMALL MILLETS

SAMAI

In Samai seven advanced cultures were evaluated along with the check variety CO 3. The highest grain yield were recorded by TNAU 101 (2222 kg/ha) and TNAU 99 (2009 kg/ha) which were 33.3 and 20.4 per cent increased yield over the check CO 3 with 1668 kg/ha.

TENAI

In Tenai the cultures TNAU 209 and TNAU 213 gave the highest grain yield of 4367 and 4414 kg/ha respectively which were 27.3 and 28.7% increased over the best check CO(Te) 7 (3430 kg/ha).

PANIVARAGU

In Panivaragu three cultures *viz.*, TNAU 149 (2230 kg/ha), TNAU 151 (2089 kg/ha) and TNAU 150 (1865 kg/ha) gave the highest grain yield with 47.2, 37.9 and 23.1 per cent over the check CO 4 (1515 kg/ha).

KUDIRAIVALI

In Kudiraivali, the highest grain yield was recorded in TNAU 89 (2295 kg/ha) and TNAU 92 (2278 kg/ha) which were 52.8 and 51.7 per cent increased yield over the check CO 1(1502 kg/ha).

PEARL MILLET

A new bold grained composite population UCC 28 (selection from PT5590) has been proposed for testing in multilocation trial Recorded average grain yield of 3926 kg/ha, which is 16% increased over CO 7 and 12% higher than the latest released variety CO (Cu) 9. UCC 28 recorded the lowest incidence of 6.2 percent of downy mildew. Besides it recorded average plant height of 160 to 180 cm with the capacity to produce 4 - 6 tillers with the duration of 83 – 85 days

PULSES

REDGRAM

Crop improvement

For information

Three long duration redgram cultures, CORG 990013, CORG 990014 and CORG 990015 are being evaluated in Multi location trials during kharif 2006. These cultures yield around 1000 – 1200 Kg/ha which is more 15 per cent increased yield than the check Vamban 2.

Field Testing

Management of Pod borers in Redgram

Spraying of Indoxoearb 0.75ml/litre at the time of 50% flowering (56.3%) have yielded best results for the past 2 years. When compared to the untreated check, treated fields have yielded 432kgs (925kg/ha) more than control. Based on these results the above mentioned treatments are to be taken for field testing.

To be observed

- *Count of Heicoverpa and Marceca larvae and also the no. of flower beetles.*
- Pod damage due to pod borers and grain damage due to pod fly.
- *Production and cost Benefit ratio.*

Crop Management

1. Nitrogen substitution by vermicompost application for pigeon pea

- ❖ Recommended N (50 % as inorganic + 50 % organic as vermicompost) recorded the highest grain yield of 942 kg/ha.

2. Acquisition of phosphorus from Iron bound fraction by pigeon pea

- ❖ The pigeon pea genotypes COPH2 and CO5 are able to utilize the Fe-P more effectively than other genotypes by the production of psilicic acid.

BLACKGRAM

Crop Improvement

The culture COBG 647 is a cross derivative TMV 1 x Vigna glabrecens. It matures in 65 days. This culture recorded an average yield of 649 Kg/ha, which is 23% yield increase over Co 5 (527 Kg/ha). This culture is resistant to YMV disease.

Special features

The blackgram culture COBG 632 [(T9 x Vamban 1) x Vamban 1] with 65 days duration, recorded an average grain yield of 802 Kg/ha. In ART 2005 (54 locations), COBG 632 recorded an increased yield of 14.1% over the check variety CO 5 (703 Kg/ha). It is being evaluated during ART 2006 with check varieties Co 5, VBN (Bg) 4 and ADT 5. This culture is performing well specially during rabi season. It is moderately resistant to MYMV and leaf crinckle diseases.

Management of root rot of blackgram and greengram through ecofriendly drought tolerant bio inoculants

Through Net work project

Coordinating centre : Coimbatore
Participating Centres : Coimbatore, Vamban & Aruppukkottai

Research findings

Effective treatments culled out from two different trials conducted at Coimbatore and Vamban revealed that ST with bio-inoculants B1 and B2 and zincated coirpith (15kg zinc sulphate / ha + coirpith 5 t/ha composted) significantly reduced the root rot incidence (10.9 -17.96 %) and recorded higher yield with a C:B ratio of 1:1.7 -1:1.9.

T1. Seed treatment PGPDT B1 + B2 (10g/kg) + SA of PGPDT B1+B2 (1.25 +1.25kg/ha)

T2. T1 + Zincated coirpith (15kg $ZnSO_4$/ha)

T3. Zincated coirpith (15kg $ZnSO_4$/ha)

T4. Control

Observations to be made

- Germination %
- Root rot incidence
- Yield with CB ratio

For information

Spraying of Panchakavya at the rate of 3.0 percent solution on Black gram after 15 days from sowing and there after at 25 and 40 days after sowing increased the yield of the blackgram to 1195 kg per hectare besides the earning of 4:1 cost benefit ratio.

Optimizing date of sowing in blackgram and greengram in rainfed Vertisol

- *Blackgram*: Sowing during 40th (Oct 1-7) and 41st (Oct 8-14) found to be right time to realize maximum yield
- *Greengram*: Sowing during 40th (Oct 1-7) and 41st (Oct 8-14) found to be right time to realize maximum yield

Economizing the use of micronutrients through seed treatment for black gram and green gram

- Seed coating with micronutrients *viz*. Zn, Mo & Co @ 4 1 0.5 g / kg of seed is beneficial for higher germination, early vigour and produced 25-30 % higher seed yield then control

Zinc nutrition to blackgram and greengram in Vertisol

- Application of recommended dose $ZnSO_4$ along with enriched farm yard manure (EFYM) recorded a highest grain yield in blackgram and greengram

Source – sink manipulation for higher yield in blackgram (ADT 5)

- Soil application of 50 kg N per ha + Foliar spray of CCC @ 200 ppm prior to flowering resulted in higher yield of blackgram

Stress tolerant *Rhizobium* strains for blackgram in pipeline

- *Calcareous soils* : *Rhizobium* CCR-3 (isolated from Palladam) for pH tolerance (8.5)
- *Acid soils* : *Rhizobium* VRU-7 (isolated from Vamban) for pH tolerance (5.6)

Crop specific *Rhizobium* strains in pipeline

Crop	Strain
Red gram	CPR 9
Black gram	CRU 8
Green gram	CMR 3

Management of powdery mildew of black gram and green gram through botanicals

Spray application of Eucalyptus leaf extract 10% twice at the initiation of the disease and 10 days later effectively checked the disease.

Treatments	Blackgram			Greengram		
	Powdery mildew (PDI)	yield (kg/ha)	CB ratio	Powdery mildew (PDI)	Yield (kg/ha)	CB ratio
Eucalyptus leaf extract (10%)	31.9	686	1.95	36.0	588	1.70
Control	88.5	585	-	100	431	-

Recommendation: To control powdery mildew of green and blackgam spray application of Eucalyptus leaf extract 10 % at initiation of the disease and 10 days later effectively checked the disease with a CB ratio of 1.8

Management of root rot of green gram through agronomic practices

Basal application of Zinc sulphate at 25 kg/ha effectively checked the root rot incidence in green gram.

Mean of six trials

Treatments	Root rot (%)	Yield (Kg/ha)	C:B
Basal Application of ZnSo4 (25kg/ha)	10.6	657	1.8
Control	26.72	489	

Recommendation: Application of $ZnSO_4$ at 25 kg/ha basally contains root rot of green gram with cost benefit ration of 1.8

Crop management

For information

Most of the farmers were using their own farm saved seeds for raising crop of redgram and green gram except black gram. In the case of red gram once over harvest was followed. Whereas in blackgram single picking at the time of maturity of the crop, and the entire plant was pulled out. In green gram most of the farmers harvested the pods in pickings either in two or in multi pickings. In all the three pulses seeds were extracted by beating the pods with wooden sticks and seeds were dried under sun. None of the farmer were aware about the processing equipments used for pulses and all of them were having round perforated sieves for sieve grading the pulses except one or two farmers. For seed purpose hand picking was practiced and seeds were stored without any seed treatment in gunny bags. For black gram coconut oil was mixed with the seeds and carried over to storage.

GREEN GRAM

Crop Improvement

Green gram - COGG 917

Parentage	(VGG 4 x VBN 1) x Vamban 1
Duration	60 – 65 days
Season	Kharif, Rabi, Summer
Yield	830 Kg/ha

Special features

This culture recorded the highest mean yield of 830 Kg/ha which is 32% and 37% increased yield respectively over the check varieties Co 6 (625 Kg/ha) and VBN(Gg) 2 (604 Kg/ha). It is moderately resistant to MYMV and leaf crinckle diseases.

COGG 924

Parentage	Co 5 x VGG 37
Duration	60 – 65 days
Season	Kharif, Rabi, Summer
Yield	879 Kg/ha

Special features

This culture recorded an average yield of 879 Kg/ha which is 27.53% and 26.62% increased yield over Co 6 and VBN(Gg) 2, respectively. This culture is having synchoronised maturity. It is moderately resistant to MYMV and leaf crinckle diseases.

LABLAB

OFT culture

A short duration vegetable avarai culture COLT 22/1, a hybrid derivative of CoLT 22 x CO 9, was tested in OFT in Coimbatore, Salem, Dharmapuri and Krishnagiri districts during kharif 2005 and summer 2006. This culture has recorded average green pod yield of 9600 Kg/ha in 75 days and the check Co 13 recorded green pod yield of 9000 Kg/ha in 140 days.

FORAGE CROPS

Crop Improvement

For on farm testing

Cumbu Napier Hybrid

The two cultures *viz.*, TNCN 014 and CN 92 were evaluated under MLT during 2004-2005 and 2005-2006 against the check entries CO 3 and KKM 1. The culture TNCH 014 recorded the highest mean green fodder yield of 285 q/ha which is 12.9% increased yield over the check CO 3 (252.46 q/ha). The trial will be repeated again under MLT during 2006-2007.

Guinea Grass

Three clonal selections *viz*., TNGG 0506, TNGG 0519 and TNGG 0523 were evaluated under MLT during 2005-2006 against the check CO 2. The entry TNGG 0506 recorded maximum green fodder yield of 109.43 q/ha with per cent increase of 30.76 over the check CO 2 (83.69 q/ha). The trial will be repeated again under MLT during 2006-2007.

2. Crop Management

For information

In cereal and leguminous fodder intercropping system, enhancement of total soil N was recorded. Among the systems tested, pearlmillet + lucerne intercropping system registered a maximum of 64.2 % increase in total soil N followed by sorghum + lucerne (61.2%) and maize + lucerne (57.7%).

OIL SEEDS

On Farm Testing

Groundnut and Sesame: Pest and Disease management

- T1 Pseudomonas TDK 1+PseudomonasPf1 (ST (10/kg) + Pf1 SA (2.5kg/ha- 30, 45th DAS)
- T2 Beauveria (B2)
- T3 Pseudomonas TDK 1 + Pseudomonas Pf1 + Beauveria (B2)
- T4 Chemical control (Carbendazim + imidacloprid)
- T5 Untreated control

Centres : Vridhachalam, Tindivanam

Observations to be made

Germination per cent of seeds; general vigour of plants

- Insect pests-leaf miner, spodoptera litura, any other pests
- Diseases-Late leaf spot, Rust, Stem rot, dry root rot, any other diseases (incidence & intensity need to be recorded following standard procedures)
- Natural enemies of insect pests
- Yield kg/ha (at standard moisture level)

For Information

Package of practices for enhancing yield in hybrid castor in North Western Zone of Tamil Nadu

- Castor seed yield increased up to 58 % under whole package demonstration with an yield of 1144 kg ha^{-1}, net return of Rs. 3330/- and BCR 1.25 compared to farmers ' practice an yield of 723 kg ha^{-1}, net returns of Rs. 915/- and BCR 1.10.

Intercropping for irrigated castor

- Castor + Bhendi (1:2) was remunerative with a net return of Rs. 12955/- per ha, BCR of 1.84 whereas sole castor recorded a net return of Rs 3113/- per ha and BCR 1.28.

GROUNDNUT

Following practices recommended for on farm testing

1. Strategies to minimize pop seed and maximize filled pods in groundnut
2. Studies on copper nutrition for groundnut
3. Testing of PGR consortia for groundnut

SUNFLOWER

FOR MLT

In sunflower, hybrid CSFH 5195 recorded 2920 kg/ha which recorded 53.9, 40.6 and 23.9 per cent increased seed yield over TCSH 1 (1898 kg/ha), KBSH 1 (2077 kg/ha) and KBSH 44 (2357 kg/ha). It contains an oil content of 39.3 %. This hybrid is being tested under multi location and on farm trails during 2006-07.

Crop Improvement
For information

- Varietal characteristics were recorded on 34 varieties of sunflower and 103 varieties of groundnut during 2004 - 2005. In groundnut 20 characters and in sunflower 40 characters were recorded.
- Among the four methods of priming experimented *viz*., halopriming, hydropriming, osmopriming and sand matric priming, hydro priming for 12 h was found to be best with respect to speed of germination as well as percentage of germination in mustard.

Mitigation of temperature stress in sunflower

- Foliar spray of Brassinolide 0.1 ppm (or) salicylic acid 100 ppm on 35 and 50 DAS alleviates high temperature stress up to 38° C and improves the seed yield up to 7.1 % over check.

Nutrient budgeting at farm level for oilseeds

- For groundnut cropping, positive balance of nutrients in soil can be maintained and soil fertility can be sustained if the currently rec. dose of FYM @12.5 t ha^{-1} and 17: 34: 54 kg NPK ha^{-1} is applied.
- For sunflower cropping, positive balance of nutrients in soil can be maintained and soil fertility can be sustained if the currently rec. dose of FYM @12.5 t ha^{-1} and 40:20:20 kg NPK ha^{-1} is applied.

SUGARCANE

Following practices are recommended for on farm testing

1. Evaluation of suitable varieties for pit method of cane planting with fertilizer response
2. Developing fertilizer schedule for sugarcane (soil application)
3. Testing the efficiency of mechanical detrasher
4. Testing the efficacy of hormone based micronutrient tonic (sugarcane tonic)

1. Biofertilizer for sugarcane

- Application of silicon bacterium @ 10 kg ha^{-1} significantly produced more milleable cane population (95420 / ha), cane yield (109.3 t /ha), CCS (11.5 %) and sugar yield (12.6 t/ha)

2. Foliar spray for sugarcane

- Foliar spray of Gibberlic acid based formulation containing $FeSO_4$ (2 %) and boric acid (0.3 %) recorded the higher cane yield

3. Detrasher for sugarcane

- The new detrasher tool developed by SRS, Sirugamani saves 34 -50 % labour per hectare.

COTTON

Crop Improvement

Management of stem weevil using Insecticides and neem based products

Initial nematode population
Germination percentage
Nematode count at 45 days interval
Damage by Root rot
Yield (Kapas)

For Information

- Two intra *hirsutum* hybrids viz , TCHH 2251 (Irrigated) with an average yield of 3786 kg/ha with 34.3% increased yield over check Bunny and it recorded a fibre quality of 33.4 mm span length and 22.6 g/tex bundle strength. TCHH 5826 (Rainfed) with yield potential of 2370 kg/ha and one inter specific hybrid TCHB 2310 (1773 kg/ha) were proposed for Preliminary hybrid trials of AICCIP during 2006-07.
- Eight interspecific hybrids recorded more than 35 mm of 2.5% span length while four hybrids recorded more than 25 g/tex of bundle strength. These hybrids are being evaluated for higher yield coupled with best fibre properties.
- Four hybrids H 34 x HT_1 (2680 kg/ha), H 58 x HT_5 (2617 kg/ha), SVPR 3 x HT_5 (2589 kg/ha) and H 34 x HT_3 (2568 kg/ha) recorded significantly higher yield over the check Bunny (1751 kg/ha). The hybrid Sara I x HT_1 has recorded 32.7 mm of span length and 24.1 g/tex of bundle strength.
- The culture TCH 1706 (2178 kg/ha) was proposed as a new entry for AICCIP IET in 19 locations with 8.4% increased yield over Surabhi and registered 32.5mm of 2.5% span length and 23.4 g/tex of bundle strength at station trial.
- TCH 1705 (1732 kg/ha) was promoted to Preliminary varietal trial of AICCIP (Br 03(a) and TCH 1608 (1468kg/ha) is retained in the same for one more year in central zone based on yield and fibre quality parameters. Both these cultures will be tested at five locations.

Breeder Seed Production

- A total of 136 kg MCU 12 and 74 kg of MCU 13 breeder seeds were distributed to Agricultural Department and various private seed growing agencies during the year 2005-06.

Crop Management

Spacing and fertilizer schedule for Bunny Bt hybrid

- Spacing of 90 x 30 cm with a fertilizer dose of 150 : 80 : 60 kg NPK / ha recorded the maximum seed cotton yield (2314 kg / ha)

Growth regulator for cotton

- Application of salicylic acid @ 100 ppm twice (during stray flowering and boll formation stage) retained the maximum number of bolls in cotton

Weed management in cotton

- For broad leaved weeds and sedges Trifloxysulfuron (early post emergence herbicide) @ 10 g / ha at 15 DAS and for grasses Pendimethalin @ 1 kg a.i / ha on 3rd DAS is recommended.

Coculturing of Azophosmet

- Cocultured Azophosmet @ 2.2 kg / ha (seed treatment: 0.2 kg and soil application : 2.0 kg). Saves 66% of the biofertilizers cost.

Designer seed of cotton

Acid delinted seed + Polykote + [Carbendazim+ Imidacloprid SD] + Pf1 + Azophos : For one kg of seeds the ingredients required are: Polymer 3 g + *Pseudomonas* (Pf1) 10 g + Carbendazim 75 WP 2 g + Imidacloprid SD 7 g + Azophos 40 g.

Effect of designer seed on sucking pests and population dynamics of bio-inoculant

Treatments	Aphid (% infestation)	Jassids No./leaf	NE / Plant	Nematode population at harvest		GM (PDI)	*Alternaria* (PDI)	*P.f.1* 10^4 cfu/g soil 45DAS	*Azospirillum* 40 DAS$x10^4$	Phosphobacterium 30 DAS $x10^2$	Yield (Kg / ha)
				Soil	Root						
DS*	3.7	1.0	4.4	107	29	21.6	17	14.6	2.20	3.5	1490
Control	32.0	4.0	4.6	245	76	84.6	62	0.3	0.05	1.5	990

Advantages of designer seeds

- Reduction in aphid infestation by 88.4% over control
- Reduction in nematode population in soil by 56.5% and in roots by 64.8% over control
- Grey mildew and *Alternaria* blight diseases reduced by 74.4 and 73.2 % respectively.
- Increased the population of Pseudomonas, Azospirillum and Phosphobacteria in rhizosphere up to 30 DAS
- Seed germination was enhanced to 93.7% compared to 71.1% in control.
- Vigour index of seedlings increased by 78.6%
- Number of bolls and sympodial branches /plant increased
- Plant height on 120 DAS was 139.9 cm compared to 106.3 cm in control
- Total chlorophyll content increased
- Kapas yield increased by 50.5 % over control

Following practices recommended for on farming testing

1. Spacing and fertilizer schedule for Bunny Bt hybrid

- Spacing of 90 x 30 cm with a fertilizer dose of 150 : 80 : 60 kg NPK / ha recorded the maximum seed cotton yield (2314 kg /ha).

2. Growth regulator for cotton

- Application of salicylic acid @ 100 ppm twice (stray flowering and boll formation stage) retained the maximum number of bolls per plant

3. Weed management in cotton

- For broad leaved weeds and sedges, Trifloxysulfuron (early post emergence herbicide) @ 10 g /ha at 15 DAS and for grasses Pendimethalin @ 1 kg a.i /ha on 3rd DAS is recommended

4. Coculturing of Azophosmet

- Cocultured Azophosmet @ 2.2 kg /ha (seed treatment 0.2 kg and soil application: 2.0 kg) saves 66 % of the biofertilizers cost

4.3. HORTICULTURAL CROPS

FRUIT CROPS

1. CROP IMPROVEMENT

a. For on farm trial / ART

1. Improvement of bananas for resistance to nematodes and Sigatoka

A. Performance of H 212 :

The synthetic banana diploid H 212 (AB), a cross between Karpooravalli (ABB) and Pisang Lilin (AA) continued to be promising and is being evaluated under MLT. Comparative morphological and yield characters along with its reaction to nematodes in comparison to its parents and the check cv Neypoovan are presented in Tables 1 & 2.

Table-1. Comparative morphological and yield characters of H-212

S. No.	Cultivar / hybrid	Genome	Plant height (cm)	Plant girth (cm)	Crop duration (days)	Bunch wt.(kg)	No .of hands	No .of fruits	TSS	Reaction to Nematodes
1	H 212	AB	230.00	50.00	362.00	13.00	11.00	160.00	26.0	Toler ant

2	Neypoovan	AB	235 00	52 00	332 00	9 80	10 00	105 00	21 0	Susc eptibl e
3	Karpooravall i	AB B	367 00	82 00	471 50	21 90	10 75	167 50	22 5	Toler ant
4	Pisang Lilin	AA	122 50	30 05	287 00	3 55	4 00	33 50	18 5	Resis tant

Table-2. Hybrid and parents reaction to nematodes

Hybrid H 212 (AB)							
S. No	**Nematodes**	**Soil Population**	**Root population**	**Total count**	**Root lesion index (%)**	**Corm Grade (lesion index)**	**Reaction status**
1	*Helicotylenchus multicinctus*	4110	225	4335	17.0	2.0	**Tolerant**
2	*Radopholus similis*	2117	450	2567			
3	*Pratylenchus coffeae*	2000	490	2490			
				Total Count : 9392			
cv. Neypoovan (AB)							
1	*Helicotylenchus multicinctus*	4126	280	4406	35.0	3.0	**Susceptible**
2	*Radopholus similis*	2269	478	2747			
3	*Pratylenchus coffeae*	3869	420	4289			
				Total count : 11442			
cv. Karpooravalli (ABB)							
1	*Helicotylenchus multicinctus*	4116	120	4236	17.0	2.0	**Tolerant**
2	*Radopholus similis*	2259	234	2493			
3	*Pratylenchus coffeae*	2313	122	2435			
				Total count : 9164			

cv. Pisang Lilin (AA)							
1	*Helicotylenchus multicinctus*	2116	116	2232	10 0	1 0	**Resistant**
2	*Radopholus similis*	1112	205	1317			
3	*Pratylenchus coffeae*	1890	210	2100			
			Total count : 5649				

Details of Multi-location Trials (MLT)

S. No.	Research Stations	Farmer's Field
1.	NRC-Banana, Trichy	Pattiveeranpatti
2.	Sugarcane Research Station, Sirugamani	Mahalingapuram, Pollachi
3.		Namakkal
4.		Karur
Total	**2**	**4**

The plants in MLT are at their shooting stage and the evaluation is under progress.

B. Performance of NPH-02-01 :

NPH-02-01, a triploid (AAB) hybrid tolerant to lesion nematodes had both the parents H 201 and Anaikomban as resistant sources. It out yielded the parents in the bunch weight (19 0 kg) and also recorded a TSS of 21.8° brix. Evaluation of this hybrid along with comparable cultivars is under progress. Multiplication of suckers by tissue culture is being taken up.

C. Performance of 96/7 :

Another promising hybrid between Karpooravalli x H.201 (ABB) yields bunch weighing 26 kg as against 22 kg by the check cv. Karpooravalli. It bears bright yellow fruits devoid of ashy coating and the pulp is white with yellow tinge. It is also tolerant to nematodes. This culture is now forwarded for MLT.

b. For Information

1. Enrichment, evaluation and cataloguing of *Musa* germplasm

Evaluation of *Musa* germplasm during 2005-06 indicated higher variability for bunch weight, number of hands, number of fingers and finger weight. The extent of variability for bunch traits was expressed in higher magnitude in AA compared to AB genotypes and in AAB genotypes compared to AAA or ABB

genotypes. Better mean performance for bunch traits was recorded in Pisang Mas (AA), Rose (AA), Kappukadali (AB), Veneetu Kunnan (AB), Robusta (AAA), Pisang Nangka (AAB), Bangrier (ABB), Nallabontha (ABB), Pidimonthan (ABB) and Karpooravalli (ABB). Fourteen new collections were also added to the existing germplasm.

2. Improvement of bananas for resistance to nematodes and Sigatoka

Hybridization :

Hybridisation was carried out using identified resistant/tolerant primary diploids/triploids *viz.*, H201, Pisang Lilin, Anaikomban, Ambalakadali, Rose, YKM-5, Pisang Jari Bauya, H-65 and H-59 as male parents. The following were the female parents:

Commercial cultivars	:	Karpooravalli, Rasthali, Neypoovan, Red banana, Manoranjitham, Sanna Chenkadali
Synthetic diploids	:	H 201
Synthetic Triploids	:	NPH-02-01

From different cross combinations effected in the year 2004-2005, 90 seedlings were derived and are being evaluated under Phase –I evaluation.

Field Evaluation :

The promising hybrids of Phase I (2004-05) such as H-04-05, H-04-06, H-04-10, H-04-12, H-04-21and H-04-24 were taken for phase II performance during the year 2005-2006. Along with these, the following promising hybrids such as H-02-19, H-02-23, H-02-26, H-02-34, H-03-05, H-03-06, H-03-13, H-03-17 and H-03-19, which were earlier developed were also taken for confirmation studies regarding the consistency in their reaction to nematodes under pot trials as well as field evaluation.

3. Enrichment and Evaluation of Papaya Germplasm

A total number of 89 germplasm accessions comprises of dioecious and gynodioecious were raised in HC &RI, Periyakulam because of severe incidence of Papaya Ring Spot Virus at Coimbatore. All the germplasm accessions were selfed and seeds were obtained for further maintenance.

4. Somatic embryogenesis and genetic transformation in papaya

(*Carica papaya* L.) cv. CO.7

Protocols for somatic embryogenesis in CO.7 papaya was standardized.

Callus induction was achieved with MS medium (half strength) + 2,4-D 2.00mgl^{-1} and embryogenesis in ½ MS medium devoid of 2,4.D. The study on regeneration showed that a high frequency of somatic embryo formation (39.50%) and higher regeneration efficiency (4.83%) was on 90 day-old embryos.

Study on sensitivity of papaya showed that the kanamycin at 75 mgl^{-1} completely inhibited somatic embryogenesis and its survival. The structural integrity of the construct pBI121 harbouring coat protein papaya ring spot virus (PRSV-*cp*) gene was confirmed by restriction digestion of plasmid DNA with *BamHI* and *SacI* which released on 856 bp insert, consisting PRSV-*cp* coding sequence

In transformation experiment, embryo-derived calli were bombarded with pBI121 harbouring PRSV-*cp* gene. PCR analysis in 15 normal looking putative regenerants showed amplification for PRSV-*cp* gene in only one plant. Further standardization of protocols for hardening and establishing transformants is necessary.

5. Improvement of papayas through breeding and selection

From the molecular marker study conducted, it was found that sixteen F_2 progenies 2/5-9, 2/9-3, 2/9-4, 2/9-5, 2/9-6, 2/9-10, 3/9-1, 3/9-3, 3/9-4, 3/9-5/ 3/9-6, 3/9-7, 4/10-4, 4/10-5, 4/10-7 and 7/6-9 had 40 per cent similarity with *Carica candamarcensis*.

Electrophoresis studies recorded two polypeptide bands with Rf values of 0.09 and 0.21 in CO 2 and four polypeptide bands with Rf value of 0.21, 0.29, 0.43 and 0.48 in *Carica candamarcensis*.

Among the F_2 progenies, 2/5-10, 2/9-1, 2/9-3, 2/9-4, 2/9-5, 4/10-2, 4/10-3, 4/10-7, 5/9-1, 5/9-2, 5/9-6, 5/9-7, 5/9-8/ 7/6-1, 7/6-2, 7/6-6, 7/6-7 were closed to *Carica candamarcensis* with Rf values of 0.29, 0.43 and 0.48.

Crop Management

For adoption

1. Planting system cum high density planting in mango

The trial was conducted with five treatments viz., square system, hedge row system, double hedge row system, paired row plating and cluster planting. The results indicated that double hedge row system of planting that can accommodate 222 no. of trees / ha (showing 122% increase in population over conventional system) recorded higher fruit yield of 5.33t/ha than other systems of planting which was followed by the 'Hedge row system'.

The conventional square system was found to make poor performance only.

2. Spacing trial in sapota

The trial was initiated during 1987 with four spacing levels viz., 10 x 10 m, 10 x 5m, 8 x 8 m and 8 x 4m. The data revealed that though planting of 8 x 8 m is ideal for higher yield in individual tree, closer spacing of 8 x 4 m accommodating 312 plants proved higher estimated yield per hectare. It is recommended to plant sapota in a spacing of 8 x 4 m for higher yield/ha.

For information

1. Post harvest treatments to enhance the shelf life of banana (*Musa spp*) cv. Ney Poovan (AB)

- Fruits of 100-day maturity in combination with 6 per cent wax and 0.2 per cent Carbendazim dip showed the lowest spoilage and the highest marketable grade
- The shelf life was the highest (11.1 days) in fruits of 80 day maturity in combination with 6 per cent wax and *T. harzianum* treatment.
- Under cold storage conditions, 100 days maturity treated with 6% wax along with chemical fungicide had the maximum storage life of 15.66 days at 17.5°C.

2. Chemical manipulation for higher yield and quality in Banana cv. Robusta

In banana cv. Robusta, 200 g of N and K in three splits with foliar spray of CPPU at fourth and sixth month after planting enhanced pseudostem height, girth, number of leaves. Early shooting was observed in the above treatment.

3. Effect of pre-harvest sprays and post-harvest treatments on the shelf life of papaya (*Carica papaya*.L.) cv. Co 7

Shelf life of papaya can be increased by combination of pre and post-harvest and packaging treatments. Pre-harvest spray of 3 per cent Panchagavya, post-harvest dipping in hot water and coating with 6% wax and further packaging in brown paper cover with ethylene absorbent were found to increase the shelf life of fruits to 13.80 days as compared to only 7.60 days in control.

Crop Protection

AONLA

Insects pests like leaf folder, hairy caterpillar, mealybugs, scutellarid bugs and earhead bugs are found to damage the leaves and fruits of the Aonla.

GUAVA

The surveillance and monitoring study on the feeding activity of the syrphids on the guava aphids showed that there were three types of syrphids feeding voraciously on the aphids.

GRAPES

Spraying thiomethoxam 2.5 WG at the rate of 25g ai/ha effectively reduced the population of leaf bugs, mealybugs and thrips.

Diafenthiuron insecticide spray at the rate of 400g/ai/ha found to reduce the leaf beetles, mealybugs and fruit thrips

Similarly spraying lambdacyhalothrin 5 CS at the rate of 10g ai/ha checked the leaf beetles, mealybugs and fruit thrips.

COCONUT

Intercropping in coconut

stage of crop : suitable inter crops
0-5 years : groundnut, maize, pulses, soybeans & vegetables
6-20 years : green manures & fodder
more than 20 years : banana, tapioca, turmeric, pineapple , cocoa, catechu

Suitable medicinal & Spices crops for intercropping in Coconut

Ideal Medicinal crops

1. Delta region : *Mucuna Sp, Andraphis paniculata, Alphinia galanga, Centella asiatica, Coleus aromaticus, Oscimum sanctum*
2. Western region : *Andraphis paniculata, Alphinia galangal, Davana oregenus*

Ideal spice crops

1. Delta regions : Vettiver, Pachouli, Lemon grass
2. Western regions : Vettiver, Pachouli, Lemon grass

Weed management in coconut

Pre emergence : Pendimethalin 0.75 1g/ha
(or) Atrazine 1 kg/ha

Post emergence : Paraquet 6ml/litre of water (or)
Glyphosate 10 ml + 20 gm Ammonium sulphate / litre to water.

VEGETABLE CROPS

TOMATO

Crop Improvement

Two hybrids of tomato viz., COLCRH 3 (TLCV resistant) and COHYT 4 (TLCV resistant + Tospo virus tolerant) along with check hybrids COTH 1 and Lakshmi were selected for the popularization in tomato growing tracts of Tamil

Nadu. The above three hybrids were evaluated under MLT (7 Nos) /ART (200 Nos) in different districts of Tamil Nadu during summer, 2005. In addition to this, the hybrids were also tested under OFT (5 Nos.) at Devarayapuram village in Coimbatore district. The results of MLT and ART/OFT were collected and compiled. From the overall reports of ART / OFT and MLT, it was found that the hybrid COLCRH 3 was found to be resistant to leaf curl virus disease with a yield of 90.2 t/ha and a mean fruit weight of 65-70g . The plants are semi determinate (80-85 cm). The fruits are smooth, round to slightly oblong and medium sized. The unripe fruits are whitish green, while the ripe fruits bright red coloured and borne in clusters of 3-5 fruits. The fruit of the hybrid has good quality besides shelf life of the hybrid was also assessed and it was found to be 10 to 12 days at room temperature. The hybrid COLCRH 3 has been released during 2006 as COTH-2.

Three varietal trials and two hybrid trials were conducted during 2005-06 as per the technical programme given by IIVR, Varanasi. Among the varietal trials KS229 (IET), DVRT2 (AVT-1) and Pant T8 (AVT-II) were the best performing entries with the yield of 38.30, 29.60 and 37.10t/ha respectively. Whereas in case of hybrid trials, ARTH-734 (AVT II) and EG 14 (IET) recorded the highest yield of 38.00 and 31.14 t/ha.

Crop Management

Application of SOP 100 kg/ha basal + SOP 50 kg/ha top dressing on 30 DAP + SOP 50 kg/ha top dressing on 60 DAP (T_5) registered the highest plant height (82.25 cm), fruit number (58.25), fruit set (70.35%), yield/ha (84.51t) and BCR (6.46). The same dose of fertilizer application recorded higher quality with better shelf life of 12 days whereas in control (with no K_2O) the shelf life was only for 8 days

Application of Azospirillum + 75% N + 100% PK recorded the highest fruit yield (42.5 t/ha) with highest BCR of 4.35.

Foliar spray of NPK (19-19-19) five times increased the plant height (97.5 cm), more number of branches (11.8), more number of fruits/plant (40.3), single fruit weight (49.5g), fruit yield (70.15 t/ha) with highest benefit cost ratio of 4.85.

CHILLI

Crop Improvement

Three varietal trials and two hybrid trials were conducted as per the technical programme given by IIVR, Varanasi. The best performing varieties under three varietal trials were HS-HP-154 (15.40 t/ha), Indira chilli – 1 (15.30 t/ha) and SKAVC-101 (9.30 t/ha), whereas in case of hybrids ARCH – 531 (19.50 t/ha) and VNR – 277 (16.00 t/ha) was the best performing entries.

A total of 98 chilli germplasm accessions were raised during 2005 summer season and evaluated for its fruit character and yield. The best performing entries are CA 25, CA166 and PKM 1.

Crop protection

Epidemiological studies on chilli anthracnose exhibited positive correlation between Relative Humidity and disease incidence. A negative correlation between disease incidence and minimum temperature and wind velocity.

BRINJAL

Crop Improvement

Among the varietal and hybrid trials, the best performing varietal entries *viz*. Punjab Sadabahar (20.30 t/ha), JBGL-01-1 (28.70 t/ha), HABL-1 (21.60 t/ha), PB – 61 (23.20 t/ha) and Aruna (27.70 t/ha) and the hybrid entries *viz* VNR-218 (29.76 t/ha), Long Purple (35.30 t/ha), VNR – 20 (30.80 t/ha) and BSS-461 (28.70 t/ha) recorded the highest yield.

BHENDI

Crop Improvement

The seeds of selected YVMV resistant hybrids along with the check, were sown in the university orchard to evaluate the performance in 2005. Simultaneously, the seeds of the parents of the selected hybrids were raised to produce the hybrid seeds and also to maintain the parental lines. Among the hybrids, the highest number of fruits per plant (10.00), fruit yield (158.90g) and the lowest incidence percentage of YVMV (4.08) was recorded in Hybrid A.

The hybrid seeds are produced by crossing and the parents are maintained by selfing. Survey to identify the needy farmers was done in all the villages around Coimbatore. Farmers field were identified for demonstration. Awareness is being created with the help of informal meetings. The skill of production of hybrid seed was imparted to farm women and they were trained in hybrid seed production with the help of three one – day trainings. A total of 167 farm women were trained in these three trainings. The parental seeds were distributed to encourage the farm women to produce hybrid seeds in their farm. The promising hybrid (Hybrid A) has been sent for MLT/ART trials.

Two hybrid trials were conducted as per the technical programme given by IIVR, Varanasi. The best performing hybrids in the IET trial was Evergreen with 29.36 t/ha and Karishma with 32.15 t/ha.

Crop protection

Epidemiological trials on bhendi powdery mildew exhibited significant positive correlation between the maximum temperature, minimum temperature and the disease incidence. Incidence of powdery mildew was negatively correlate with rainfall.

ASH GOURD

Crop Improvement

Two varietal trials were conducted. The best performing variety was Pusa Ujjawal (AVT I) with 103.50 t/ha and No 600 (AVT II) with 105.45 t/ha.

CUCUMBER

Crop Management

Application of 50 per cent RDF + FYM 10t/ha + Biofertilizer recorded the highest fruit yield (24.35 t/ha) with highest BCR (4.17).

SWEET POTATO

Crop Improvement

1. The trial was conducted in 2005 as per the technical programme given by ICAR - AICRP. Among the entries, the total tuber yield per plot was the highest (32.2 kg) in the entry 362-7, the entry 440127 registered the highest number of tubers (240) and the the entry S-61 registered the lowest (1.0 kg) weevil infested tuber yield lowest (3.00 kg.

2. In another trial given by ICAR-AICRP, the entry IGSP -14 recorded the highest total tuber yield (35.15kg/plot) than all other entries.

ONION

Crop Management

Application of oxyfluorfen @0.15 kg a.i./ha as pre emergent spray recorded the highest yield (12.21 t/ha), the highest BCR (4.08) and highest weed control efficiency (97.9%).

AMARANTHUS

Crop Improvement

A total of 79 amaranthus germplasm accessions were raised during 2005 for evaluation and seeds were collected. Among the 79 germplasm accessions tested, A-77 recorded the maximum plant height of 203.50 cm and yield.

CASSAVA

Tissue Culture

The experiment was conducted as per the technical programme given by the sponsor. The protocol for mass production has been standardized. Mass multiplication of H 226 and MVD 1 through tissue culture is in progress. The plants produced are ready for hardening.

Breeder Seed Production

Vegetable Breeder Seed Production and Sales 2004-05

Crop	Targeted Quantity		Quantity produced
	Private	Government	
Tomato			
PKM1	66.000	2.500	40.80
CO 1	3.000	-	(To be harvest)
CO 2	1.000	-	- do -
CO 3	6.500	-	10.00

Chilies			
CO 1	8.000	-	(To be harvest)
CO 2	23.500	-	78.00
PKM1	2.000	-	4.00
Brinjal			
KKM 1	0.900	-	-
CO 2	6.400	-	4.70
Leaf vegetables			
CO 1	0.500	-	6.00
CO 2	-	1.000	5.00
CO 3	2.500	-	5.00
CO 5	0.500	-	5.00
Bottle gourd			
CO 1	3.500	-	-
Ribbed gourd			
CO 2	5.000	-	10.00
PKM 1	1.500	-	1.50
Butter gourd			
CO 1	10.500	-	7.50
Snake gourd			
CO 1	1.500	-	1.50
CO 2	0.500	-	10.00
CO 2	2.000	0.500	3.00
Pumpkin			
CO 1	1.000	-	-
Bhendi	17.000	-	430.00
Cluster bean PNP	158.000	-	140.00
Total	321.300	6.000	553.50

SPICES AND PLANTATION CROPS

CASHEW

Crop Improvement

The cashew hybrid H10 (M10/4 x M26/1) identified of RRS, Vridhachalam exhibited the following features
Yellow colour apple
New weight – 6.95 g
Shelling percentage : 27.36%
Yield / tree at the age of 11 years : 51.1 kg

Merits of raising intercropping in cashew

Sl.No.	Particulars	Cashew + Groundnut	Cashew + Blackgram
1.	Yield potential of intercrops (kg/ha)	1562.50	1000.50
2.	Cost of production for intercrops (Rs/ha)	13500.00	5850.00
3.	Total income (Rs/ha)	29687.50	18000.00
4.	Net profit	16187.50	12150.00
5.	Benefit cost ratio	1.1:1.9	1:2.1

CHRYSANTHEMUM

Acc 103 recorded highest number of flowers and weight of flowers. The colour of flower is deep yellow where as the check CO 1 is yellow. This culture is recommended for release by the Horticulture Scientists Meet.

Yield comparison of Acc 103 with CO 1

Particulars	Yield / plot (1.2 m x 1.2 m)	
	Acc 103	CO 1
Main crop	2850 g (19.44 t/ha)	1400 g (9.72 t/ha)
Ratoon crop	1100 g (7.64 t/ha)	410 g (2.85 t/ha)
Total	3950 g (27.08 t/ha)	1810 g (12.57 t/ha)
No. of flowers/plot	2875	1820
No. of flowers /plant	180	110

Introduction of Indira and Red Gold

Based on the performance the varieties Indira and Red Gold could be recommended for large-scale commercial cultivation in Tamil Nadu.

Yield comparison of Indira and Red Gold with CO 1

Particulars	Yield / plot (1.2 m x 1.2 m)		
	Indira	Red Gold	CO 1
Main crop	2340 g (16t/ha)	1750 g (12.5 t/ha)	1400 g (9.7 t/ha)
Ratoon crop	650 g (4.5 t/ha)	400 g (2.8 t/ha)	410 g (2.85 t/ha)
Total	2990 g (21 t/ha)	2150 g (15 t/ha)	1810 g (12.57 t/ha)

ANTHURIUM

The total collection in the existing germplasm at HRS, Yercaud is 142.

One anthurium accession (Acc No 114) was collected from open pollinated seedlings maintained in a Private farm Yercaud and added into the available germplasm. Now the total collection of the existing germplasm is 143.

The anthurium collections were evaluated for their plant and floral traits.The maximum number of flowers per plant (8.16), spathe length (14.28cm) and spathe width (12.32cm) was recorded in Honduras. The variety Verdon Red recorded maximum flower stalk length (60.13cm). The variety Sweet Heart recorded the maximum spadix length (7.87 cm). The maximum vase life of flowers in plain water (17.37 days) was recorded in Honduras.

The breeding programme was initiated with five female parents viz., Deep Red, Verdon Red, Flesh Red, Liver red and Orange and the male parents White, Pink and Linda Demole. They were crossed in full ' Line x Tester Mating Design'

The crosses were made as and when the flowers are ready in the female parents. The pollen grains collected from the male parent and crossing was effected. The seedlings of the crosses made in last year were transferred to the individual pots. The grown up seedlings are being evaluated for their plant and floral traits.

ORCHIDS

Under Yercaud condtions, NPK @ 10:5:10 @ 0.2% spray + Azospirillum + VAM resulted in highest growth and yield attributes in Epidendrum radicans (Plant height 34.7 cm, stalk length 52.8 cm, number of florets 18.7) and Coelogyne sp. (percentage of flowering 77, spike length 29.8 cm, no. of florets 10.7).

4.4. Centre for Plant Molecular Biology

For information

Developing drought tolerant rice cultivars using

Six drought tolerant rice lines (PM 01 011, PM 03 002, CPM ACM 04 003 and CPMB ACM 04 004, Ashoka 200F, RM 04 001) have been developed which performed better under rainfed condition as compared to landraces and local checks in Ramnad and Paramakudi both in on station and in farmers' participatory trials.

Transformation

Rice

- Marker free transgenic rice lines expressing chitinase and *cry1b* were generated. Pyramided transgenic lines expressing thaumatin like protein

and Xa21 were developed with a view to control sheath blight and bacterial blight pathogens.

- Transgenic plants expressing beta-carotene biosynthetic pathway genes were used as donor lines to introgress these genes into local elite background of ADT43 and ASD16. BC_1F_1 progenies of these crosses have been generated.

Cloning and engineering of new *cry* genes of Bt to improve toxicity of their proteins against *Helicoverpa armigera*

A chimeric *cry2Ax1* gene of Bt was made and its protein showed about 20-fold higher toxicity than the Cry2Ab protein to the cotton bollworm, *Helicoverpa armigera*. The *cry2Ax1* gene will be useful for developing indigenous Bt-cotton.

Transformation

Brinjal

Mahyco brinjal event EE1 expressing *cryIAc* used as donor to introgress the gene into local elite backgrounds through back-cross breeding programme. Co2, MDU1, PLR1 and KKM1 are used as recurrent parents with a view to developing Bt versions of these genotypes. BC_2F_1 seeds of the above combinations were generated.

Banana

Regeneration protocol was standardized for the banana cultivars Robusta (AAA) and Neypoovan (AB).

For on farm trial

Delivery and dissemination of new drought tolerant rice varieties and its impact on socio conditions of rice farmers in drought prone rainfed eco-systems of Tamil Nadu, India

Through farmers participatory plant breeding approach, the rice lines PM 01 011, PM 03 002, CPMB ACM 04 003 and CPMB ACM 04 004, Ashoka 200F, RM 04 001 were selected for drought resistance and the seeds of above cultures were multiplied and disseminated to the farmers in the target environments during this *rabi* season 2006 for testing.

4.5. SERICULTURE

For adoption

The bed disinfectant TNAU01 reduced the grasserie and flachene diseases of silkworm when applied at the rate of 4kg / 100 dfls and increased the cocoon yield.

Recommendation

The above said bed infectant TNAU01 is named as Sakthi Seri dust. It is released as bed disinfectant against silkworm diseases. For large scale use the recommended dose 4 kg/100 dfls. It also increase yield of the cocoon.

For in Farm Trial

Confirmatory trials on the effects of phyto-juvenoid on silkworm larvae and economic traits of cocoon

Per us application of solvent extract of *Psoralea corylifolia* @ 800 ppm is possessing phyto-juvenoid effect. The application of *P corylifolia* increases the larval duration and cocoon weight, which leads to enhancement yield and other economic characters of cocoon. For confirming the results fields trials were conducted in five different locations recommended for on farm trial.

Proposal for on farm trials

Botanicals used for trials

1. *Psoralea corylifolia* @800ppm
2. *Lantana camera* @ 800 ppm
3. Without botanicals

Time of Application

Apply the botanicals 24 hours after the fourth moult.

Locations

Thoppampatti, Jothipuram, M.G.Chettipalayam, Senthampalyam, Pongalur (Coimbatore District)

Silkworm race : PM x CSR 2

Observations to be taken

- 5^{th} instar larval duration (in hours)
- Cocoon yield (no/10000 larvae)
- Cocoon yield (weight/10000 larvae)

Botanical based dust formulation as food supplement for disease management

Proposal for On Farm Trial

Botanical used for trials

1. *P.coritifolia* + soya flour @ 10g/kg of shoot
2. *P coritifolia* + Horsegram flour @ 10 g/kg of shoot
3. Soya flour alone @ 10g/kg of shoot
4. Horse gram flour alone @ 10g /kg of shoot

Locations

Periyanaicken Palayam, Annur, Avinashi and Udumalpet.

Silkworm race : PM x CSR2

Observations to be taken .

Less due to disease

Cocoon yield (no/1000 larval)

Cocoon yield (weight/ 1000 larval)

Department : Sericulture, TNAU, Coimbatore.

4.6. MUSHROOM

1. Performance of new strain (PS1) of *Volvariella volvacea* with circular compact bed method of cultivation

Through ICAR projects Centres : Coimbatore

Several *Volvariella volvacea* isolates collected were tested for their performance with different methods of cultivation and the results are furnished.

Yield performance of different strains of *Volvariella volvacea*

Strains	DFSR	DFPF	DFFH	No. of button per Bed	Av.wt. per button	Yield g/bed	BE %
PS1 (PBS)	7.0	8.2	10.0	40.4[a]	25.0	1010[a]	25.0
PS2 (Orchard)	7.4	9.0	11.2	32.0[b]	24.0	768[c]	19.2
PS3 (Erode)	7.4	9.0	11.0	30.0[b]	22.0	660[d]	16.5
PS4 (Raipur)	7.4	8.6	11.0	37.7[a]	24.2	914[b]	22.7
PS5 (Solan)	8.0	9.0	11.0	30.0[c]	22.0	660[d]	16.5

Conclusion

PS1 strain recorded higher yield (1010g/bed) and bio efficiency (25 %)

Different types of bed system on the yield of paddy straw mushroom (PS1)

(Mean of three trials)

Bed type	DFSR	DFPF	DFBF	Av. No button / bed	Av. wt. button (g)	Yield/ bed (g)	BE %
Hollow bed (1.5'dia. 1' ht with 0.5' dia hollow)	9.2	10.5[a]	4.3[a]	22.3[b] (28.1)	16.3[c] (23.7)	349[c]	8.8
Square compact (1'x 1' x 1')	7.5	8.8[c]	9.8[c]	23.5[b] (28.9)	25.0[b] (29.9)	585.0[b]	14.6
Circular compact 1ft ht; 1.5ft dia)	5.5	6.5[d]	7.5[d]	31.5[a] (34.1)	32.5[a] (34.7)	1021[a]	28.4
Bundle (Hollow)5x4 layers +2 bundles opened at top	7.8	8.8[b]	8.3[c,d]	19.8[c] (26.4)	15.8[c] (23.3)	370[c]	9.3
Bundles 4x5 Layers +2 bundles opened at top	7.3	8.2[b]	8.8[c]	23.8[c] (29.2)	17.5[c] (24.7)	415[c]	10.4

Conclusions

Among the methods, Circular compact bed system recorded maximum yield (585 g/ bed) and higher bio efficiency (28.4 per cent)

Treatments for OFT

- PS1 strain with Circular Compact Method
- Existing strain with Circular Compact Method
- PS1 strain with Square Compact Method
- Existing strain with Square Compact Method

Replications : Five

Observations : DFSR DFPF DFBF, Number of buttons, Weight of buttons, pests and disease problems, Yield and bio-efficiency and nutritive value.

Standardization of Outdoor cultivation of paddy straw mushroom

Through ICAR projects
Proposing Centre: Coimbatore,

Paddy straw mushroom is generally cultivated indoor. However, outdoor cultivation was attempted in the inter row space (60 X 30 cm) of maize field 30 DAS. An average yield of 1734 g/bed with 8.75% bio-efficiency was achieved. This practice gives additional income as well provides organic manure when the spent substrate is ploughed *in situ*.

Inter row cultivation of paddy straw mushroom in maize fields

(Mean of two trials)

Bed Layers	No. of eggs/ Bed	Av. Wt.of Egg (g)	Yield (g/bed)	Bio-efficiency (%)
Top	12.30	21.8b	264.8c	1.14
Middle	19.8b	25.8a	510.8b	2.43
Bottom	37.0a	26.5a	981.8a	5.18
Total			**1733.5**	**8.75**

Treatments proposed for OFT

Strain to be tested : *Volvariella volvaceae* - PS1

- Square compact bed (Bundle method) 5 bundles x 5 layers
- Square compact bed (Bundle method) 5 bundles x4 layers
- square compact bed (Bundle method) 5 bundles x3 layers

Replications : Seven

Observations : No. of eggs/bed; weight of eggs; total yield and bio-efficiency; pests and disease problems

Results of one OFT

S No	Treatment*	No of eggs harvested / bed	Mean wt. of mushroom at egg stage (g)	Yield (g/bed)	B.E (%)	BCR
1	Square compact bed 5 bundles X 5 layers	124.4	24.9	3100	12.4	1.81
2	Square compact bed 5 bundles X 4 layers	96.4	23.8	1965	9.8	1.21
3	Square compact bed 5 bundles X 3layers	82.6	24.3	1404	9.4	1.11

*Mean of ten replication

4.7. AGRICULTURAL ENGINEERING

I. COCONUT TREE CLIMBER

Special Features

- Useful for climbing coconut trees for harvesting nuts, cleaning and other operations.
- Any unskilled person including ladies can climb the coconut trees using this unit.
- Requires 1.5 minutes to climb a tree of 30 to 40 ft height.

Cost of the unit	Rs.2000/-
Capacity	50 to 60 trees per day
Cost of operation	Rs.1.50 per tree

II. TWO ROW FINGER TYPE PADDY ROTARY WEEDER

Special Features

- Useful for weeding in paddy row crops
- Row spacing can be adjusted for 20cm and 25 cm.
- One man can easily operate the unity continuously.
- By push pull action the weeds are buried and soil airated

Cost of the unit	Rs.900/-
Capacity	0.35 ha/day
Cost of operation	Rs.250/ha.
Saving in cost	80%
Saving in labour	60%

III. SEED CUM FERTILIZER DRILL FOR PADDY

Special Features

- Useful for direct sowing of paddy and simultaneous application of fertilizer.
- The seed rate and fertilizer rate can be adjusted.
- Can be operated by a 35 HP tractor.
- By applying the required quantity of fertilizer at root zone, better crop growth and more yield is obtained.

Cost of the unit	**Rs.35,000/-**
Capacity	**3 ha/day**
Cost of operation	**Rs.800/- ha.**
Saving in cost	**65%**
Saving in labour	**84%**

IV. TRACTOR OPERATED PIT DIGGER FOR SUGAR CANE PLANTING

Special Features

- Dig two pits of 90 cm dia simultaneously at 1.5 m interval to a depth of 30 cm suitable for planting sugarcane setts.
- Planting of cane in 1.5 x 1.5 m spacing with pit method favours higher cane yield.
- Recommended as technology package under drip fertigation system for cane.

Cost of the Unit	:	Rs.65.000/-
Capacity	:	250 to 300 holes per hour
Cost of operation	:	Rs.300 per hour
Saving in cost	:	63 %
Saving in time	:	97 %

V. HAND OPERATED ANOLA SEED REMOVER

Special Features

- The seed remover is simple and easy to handle.
- Deseeded fruits with punch hole increases the osmosis of syrup.
- Mechanical pulping of fresh aonla is feasible without seeds.

Cost of the Unit	:	Rs. 1000/-
Capacity	:	20 kg/hr (or) 530 fruits / hr
Cost of operation	:	Rs 10/hr
Saving in cost	:	90 %

VI. SUGARANE SETT CUTTER

Special Features

- Useful for cutting sugarcane sett with single bud.
- Reduce the cost of seed cane.
- Additional income from the budless internodes.

Cost of the Unit	:	Rs. 2750 / unit
Capacity	:	One sugarcane sett per second
Cost of operation	:	Rs 240 per hectare
Saving in cost	:	45%
Saving in time	:	70%

4.8. FORESTRY

I) FOR ADOPTION

1) Cleft grafting for clonal multiplication of Simaruba and Mahua is recommended for adoption

A clonal technology using cleft grafting approach has been developed for mass multiplication of sex specific *Simarouba glauca* and high oil yielder in Mahua using low cost polytunnel system. This technology is recommended for adoption by the oil industries and other stakeholders who are venturing for edible oil and biodiesel production.

2) Clonal propagation for industrial wood species

A mass multiplication technology has been developed for two industrial wood species viz., Casuarina and Eucalyptus using clonal technologies for higher yield and also for species with high cellulose content. These technologies were developed using coppice shoot cuttings for Eucalyptus and sprigs for Casuarina and rooted ramets were obtained on treatment with IBA at 6000 ppm. These technologies are ready for transfer to pulp and paper industries in the state.

3) Management technologies for quality seedling production in *Casuarina equisetifolia* under coastal condition

Research studies revealed that five-year-old Casuarina trees yield healthy and quality seeds. The optimum seed rate per sq.m is 30 g. Regarding mulch paddy straw has shown good results when compared with other mulches. Stale seed bed and hand weeding twenty days after germination has shown good control of weeds and better quality seedlings. The following Integrated Nutrient Management with Frankia, FYM and biofertilizer viz., DAP (50 g/m^2) + FYM (5 kg/m^2) + Phosphobacteria (25g/sq.m) + VAM (50g/m^2) + Frankia (5g/ m^2) has shown good results. Seedlings graded after 90 days of the germination into big (above 20 cm height), medium (10 – 20 cm height) and small (below 10 cm height) revealed that the big and medium sized seedlings are suitable for pulpwood plantations and poles and small sized seedlings are suitable for gardening.

Seedling recovery as influenced by seed quality in *Casuarina equisetifolia*

Seed rate (gm/m^2)	Big		Medium		Small	
	QS	FS	QS	FS	QS	FS
10	670	218	536	343	157	321
15	867	361	912	478	279	384
20	1121	570	1142	697	495	525
25	1340	653	1528	898	663	683
30	1967	888	1872	1282	760	995
35	1853	1132	2108	1601	896	1214
40	1920	1265	2269	1818	940	1433
50	1879	1402	2400	1948	1064	1470

Effect of organic, inorganic and bio fertilizers on seedlings of *Casuarina equisetifolia*

Treatments	Seedling recovery/ m2	Seedling quality		Survival % 3 MAP	
		SL cm	RL cm	Irrigated	Dry
Control	4041	15.4	8.5	86	72
Ammonium Sulphate (50gm/ m2)	4288	21.2	10.5	81	60
Urea 50g/m2	3990	22.2	10.2	78	52
DAP 50g/m2	4432	23.5	11.2	90	74
Frankia (5g/ m2)	4220	20.5	9.8	90	73
VAM (50g/m2) + Frankia (5g/ m2)	4310	20.8	10.6	93	75
Phosphobacteria (25g/sq.m) + VAM (50g/m2)+ Frankia (5g/ m2)	4400	26.2	15.5	91	76

FYM 5kg/m2	4274	19 2	9 8	90	74
FYM+ DAP 50g/m2	4488	26 5	16 2	95	81
FYM+ Phosphobacteria (25g/sq m) + VAM (50g/m2)	4386	24 6	13 5	93	75
FYM+ Phosphobacteria (25g/sq.m) + VAM (50g/m2) + DAP 50g/m2	4599	31 5	18 5	95	80
DAP+ FYM+ Phosphobacteria (25g/sq.m) + VAM (50g/m2) + Frankia (5g/ m2)	4786	32 6	18 6	97	84
SEd	2 67	1 2	0 8	1 05	1 82
CD	5 54	2 5	1 7	2 17	3 79

SL – Shoot Length RL – Root Length

4) Effect of vermicompost and vermiproducts on germination of tree seeds

Sowing tree seeds in soil with vermicompost (1 1 as a soil mixture) recorded highest germination percentage of 95 11 in neem followed by simaruba (85.76%) and teak (41.28%).

Effect of vermicompost on seed germination

Sl. No.	Treatments	Germination percentage		
		Neem	Simaruba	Teak
1.	Vermicompost (1:1)	95.11 (77.26)[a]	85.76 (67.84)[a]	41.28 (47.44)[a]
2.	Vermicompost (1:2)	89.98 (71.55)[b]	72.49 (58.37)[b]	35.23 (39.37)[b]
3.	Control	84.87 (67.12)[c]	60.37 (50.98)[c]	16.43 (23.91)[c]

[Figures in parentheses are transformed (angular) values]

Overnight soaking of seeds in vermicast extract recorded the highest germination percentage of 87.00 per cent, 60.00 per cent and 39.50 per cent for simaruba, pungam and teak respectively. Soaking of gulmohur seeds in

vermiwash Type-I recorded the maximum germination percentage. Overnight soaking of sprigs of Casuarina in vermicast extract produced maximum rooting.

B) On Farm Trials

Simaruba based agroforestry system with cowpea as intercrop

In order to achieve the objectives of the present investigation, the allelopathic study was conducted with leachates of different plant parts of *Simaruba* on germination and growth attributes of the test crops viz., blackgram (Co.5), cowpea (Co.6), greengram (Co.4) and redgram (Co.6) and field experiment was conducted to find out the compatible agricultural crops for *Simaruba* based agroforestry system and also to assess the soil fertility status due to intercropping.

i) Allelopathic effect of leachates on germination and seedling growth of test crops

The allelopathic effect of leachates collected from fresh leaf, leaf litter, bark and root of simaruba on germination of the test crops was studied. The results revealed that the different leachates of simaruba differed significantly with each other. Among the leachates, root leachates exhibited maximum inhibition on germination of the test crops (11 %) and fresh leaf leachates showed minimum (2%). Among the different test crops, greengram and redgram registered maximum inhibition in germination (7%) and cowpea observed minimum inhibition (1%).

The shoot length of the test crops at 30 DAS was significantly affected due to the influence of four different leachates. The maximum inhibition in shoot length (34%) was recorded by root leachates and minimum inhibition (11%) by leaf litter leachates.Among the four test crops, the maximum inhibition in shoot length was recorded in greengram (18%). The minimum inhibition was found in redgram (11%) followed by cowpea (12%).

The study revealed that the shoot length of the test crops at 60 DAS varied significantly due to leachates. Among the leachates, root leachates recorded the maximum inhibition on shoot length (19%) and bark leachates exhibited minimum inhibition (9%). Among the test crops, the maximum inhibition in shoot length (14%) was observed in greengram followed by redgram (12%) and the minimum inhibition in cowpea (6%).

The leachates of different plant parts revealed that the root leachates showed maximum inhibitory effect on root length of the test crops (41%) and leaf litter leachates exhibited minimum inhibition (14%). Among the test crops, redgram recorded the maximum inhibition (27%) and cowpea recorded the minimum inhibition (6%).

The root length of the test crops at 60 DAS was significantly affected by the leachates of simaruba. Among the leachates, root leachates showed maximum inhibition on root length of the test crops and leaf litter leachates registered minimum inhibition (7%). Among the four test crops, the maximum inhibition in

root length was recorded in blackgram and greengram (10%) and the minimum inhibition was found in cowpea (4%)

The total dry weight of the test crops at 30 DAS varied significantly due to leachates. Among the four leachates, root leachates recorded the maximum inhibition on total dry weight (42%) and bark leachates registered the minimum inhibition (28%). The total dry weight of the test crops also differed significantly with each other with the maximum inhibition in blackgram (27%) followed by redgram (22%). The minimum inhibition was recorded in cowpea (18 %).

The different leachates of simaruba significantly influenced the total dry weight of the test crops at 60DAS.The root leachates recorded the maximum inhibition on total dry weight (45%) followed by leaf litter leachates (38%). The fresh leaf leachates showed the minimum inhibition (28%) Among the four test crops, maximum inhibition in total dry weight was recorded in red gram (49%) and the minimum inhibition was recorded in cowpea

ii) Compatibility Studies

The plant height of intercrops viz., blackgram, greengram, cowpea and redgram at 30 DAS was significantly reduced under trees when compare to pure crops. Among the four crops, maximum reduction in plant height was observed in redgram (25%) and minimum reduction was observed in cowpea (8%) The same trend was observed at 60 DAS with 13 per cent reduction in redgram as maximum and 5 per cent reduction in cowpea as minimum

The repressive effect of the trees on collar diameter of the intercrops at 30 DAS was significantly differed Among the four crops taken for the present investigation, the magnitude of reduction in collar diameter was significantly maximum in redgram (16%) and it was minimum in cowpea (10%) followed by blackgram (11 % and greengram 11%). The collar diameter of intercrops at 60 DAS showed that the three crops viz., blackgram, greengram and redgram were greatly affected with reduction of 21 per cent each whereas cowpea was least affected (8%).

The results showed that the grain yield of the intercrops was significantly reduced under trees when compare to pure crops. Among the four crops, maximum reduction in the grain yield was observed in redgram and blackgram (7% each) and minimum in cowpea (2%) The compatibility study revealed that among the four crops taken for the investigation, cowpea was least affected. Hence cowpea could be a suitable intercrop for simaruba based agroforestry system.

iii) Effect of intercropping on soil fertility

Soil samples were collected from open and under simaruba before the experiment and in the intercropped field after the experiment .The initial soil N, P and K of the barren land was 183.57 Kg ha^{-1}, 7.6 Kg ha^{-1} and 260 Kg ha^{-1} respectively, whereas 196.19 Kg ha^{-1} N, 10.32 Kg ha^{-1} P and 280.95 Kg ha^{-1} K under simaruba.

The mean values of available nitrogen status under pure cropping and tree crop combinations were 197.8 and 215.4 kg ha^{-1} respectively, the lowest being

under redgram pure cropping (190.4 kg ha^{-1}) and the highest being under blackgram simaruba combination (218.9 kg ha^{-1}). The results showed that there was a significant difference between pure cropping and intercropping.

The available phosphorus status of soil ranged from 10.28 kg ha^{-1} under redgram pure cropping to 16.02 kg ha^{-1} under cowpea simaruba combination with the mean values of 10.97 and 13.73 kg ha^{-1} under pure cropping and tree- crop combination respectively. The results emanated from the study revealed that there was a significant difference between pure cropping and inter cropping

The results of the available potassium status clearly revealed that the range values were 278.6 kg ha^{-1} in redgram pure cropping to 348.0 kg ha^{-1} under cowpea intercropped with simaruba. The mean available potassium status under pure cropping was 284.2 kg $ha^{-1}$and under tree crop combination was 334 kg ha^{-1} indicating that it existed significant difference between pure cropping and tree crop combinations.

Effect of intercropping with Simaruba on grain yield of agricultural crops (kg ha^{-1})

Crops	Grain yield (kg/ ha) Pure cropping	Intercropping
Black gram	1134	1054 (-0.07)
Greengram	1172	1107 (-0.06)
Cowpea	970	902 (-0.02)
Redgram	1256	1226 (-0.07)
Mean	1133	1072
	SED	CD
	0.01	0.02

Effect of intercropping with simaruba on soil fertility status (kg.ha^{-1})

Crops	Available N		Available P		Available K	
	Pure cropping	Inter cropping	Pure cropping	Inter cropping	Pure cropping	Inter cropping
Blackgram	201.0	218.9	11.02	15.50	283.30	338.00
Greengram	200.6	213.2	10.79	12.50	286.60	334.00
Cowpea	199.3	217.9	11.79	16.02	288.34	348.00
Redgram	190.4	211.7	10.28	10.90	278.60	316.00
Mean	197.8	215.4	10.97	13.73	284.21	334.00
	SEd	CD	SEd	CD	SEd	CD
	1.45	2.99	0.65	1.33	4.27	8.75

6) Integrated Nutrient Management in Grain Amaranth

A trial on the Integrated Nutrient Management (INM) in Grain Amaranth was under taken at Forest College and Research Institute, Mettupalayam during *kharif* 2004. The trial was sown on 10.6.2004. The field was laid in Randomized Block Design with four replications with plot sizes of 3.6m x 5.0 m. The seeds were sown in lines mixed with fine sand at a distance of 45 cm between rows and the plant distance maintained at 15 cm. The treatments followed are given as below

T_1 is recommended dose (60 40 0 kg/ha) of NPK
T_2 - 75% N through RDF + 25% N as FYM
T_3- 75% N through RDF + 25% N through Neem cake
T_4-50% N through RDF + 50 % N through FYM
T_5-50% N through RDF + 50% N through Neem cake.
T_6-25% N through RDF + 75% N through FYM
T_7-25% N through RDF + 75% N through Neem cake.
T_8-Control and
T_9-FYM alone @ 10 tonnes/ha

All the treatments had a positive effect over the control. The maximum height was observed in T_3 which was 207 cm followed by T6 (197 cm) T_1 (192 cm) which were on par. T_4 recorded the lowest height of 176 cm among the treatments, followed by T_2 (181 cm) and T_9 (180 cm). The control T_8, however recorded the least of 149 cm. All the treatments, except control though exhibited variations they were on par. It can be inferred that a combination of nitrogen and FYM (or) a combination of nitrogen and neem cake enhances better growth owing to the water holding capacity in addition of slow release of nitrogen.

All treatments were on par, with regard to days to flowering which varied from 46 days to 48 days. However the plot, which was applied, with FYM alone recorded 51 days. The time taken for 50% flowering in control was 56 days. The plants under treatment T_7 matured in 91 days which was the earliest and 94 days in T_5 which was on par with control T_8. The length of ear head height ranged 42 cm to 48 cm in all treatments. The least was observed in control (T_8) which was only 34 cm followed by T_5 and T_9 which recorded only 42 cm.

The highest yield of 1,030 kg/ha was observed in T_2 followed by T_1, which recorded 995 kg/ha, T_7 (937 kg/ha) and T_9 (917 kg/ha). The treatments T_3, T_5 and T_6 were on par. The control recorded only 435 kg/ha which was the least from the results it can be inferred that 75% N through RDF + 25% N as FYM dose boosts the yield. The effect of T_1 also proved to be promising by the enhancement of initial vegetative growth and also increase the yield. The other treatments like T_7, T_9 had significant effect in enhancing the yields.

Studies on INM in Grain amaranth

Treatments	Plant ht (cm)	Grain yield (kg/ha)
T1	192	995
T2	181	1030
T3.	207	812
T4	183	709
T5	176	820
T6	197	846
T7	186	937
T8 (control)	149	435
T9	180	917
CD (5%)	28.10	219.74
CV (%)	10.51	18.06

Ailanthus based agroforestry system with fodder cowpea. Ailanthus litter also contributes nutrients

With an objective of screening suitable fodder crops for Ailanthus based agroforestry system an existing 15 years old Ailanthus plantation was selected and the following fodder crops viz., Fodder sorghum, Fodder cowpea, Desmanthus and Stylosanthes were raised in the interspaces of the trees and also as pure crops. This experiments was laid out in randomized block design with 5 replications. The following parameters viz., plant height (30 DAS and 60 DAS), green fodder yield and dry fodder yield were recorded in the fodder crops taken for this study (Table 2 & 3).

The results revealed that plant height of the intercrops viz., fodder cowpea, fodder sorghum, desmanthus and stylosanthes at 30 DAS was reduced under the trees when compare with pure crops. Among the fodder crops taken, maximum reduction in a plant height at 30DAS was observed in stylosanthes (40%) followed by desmanthus (38%) and minimum reduction was observed in fodder cowpea (25%). The same trend was observed at 60DAS also with 41 percent reduction in stylosanthes as maximum and 28 percent reduction in fodder cowpea as minimum.

The repressive effect of the trees on green fodder yield of the fodder crops was observed when compared to pure crops. Among the four fodder crops taken for the present investigation, the maximum reduction in green fodder yield was observed in stylosanthes (46%) and minimum in fodder cowpea (15%).

The results showed that there was a reduction in the dry fodder yield of intercrops when compare with pure crops. Among the four crops, maximum reduction in dry fodder yield was observed in stylosanthes (48%) followed by desmanthus (46%) minimum in fodder cowpea (17%). This study revealed that growth and fodder yield of the test crops were reduced under intercropping compared to pure cropping. Among the four fodder crops taken, stylosanthes was most affected and fodder cowpea was least affected. Hence fodder cowpea is a suitable shade tolerant fodder crop for Ailanthus based Agroforestry system.

Effect of intercropping with Ailanthus on fodder yield of intercrops (Kg ha^{-1})

Fodder crops	Green fodder yield (Kg ha^{-1})		Dry fodder yield (Kg ha^{-1})	
	Pure cropping	Inter cropping	Pure cropping	Inter cropping
Stylosanthes	4611.11	2500.00(46%)	1166.66	777.70 (48%)
Desmanthus	1138.88	680.55(40%)	361.11	194.44 (46%)
Fodder Sorghum	9333.33	6361.11(32%)	2611.11	2000.00 (21%)
Fodder cowpea		7083.33(15%)	1611.11	
	SED 1.68	CD 4.11	SED 1.81	CD 4.43

8) *Acacia leucophloea* (velvel) based silvipastoral system with blue buffel

The biomass accumulation was recorded at 90 DAS for all the fodder crops. It was found that among the cereal fodder COFS29 recorded higher biomass yield (8.97 t/ha). In the case of grass fodder *Cenchrus glaucus* var CO1 recorded the higher green fodder yield (9.92) than C *ciliaris and C. setigerus*. This sows that the improved varieties able to accumulate more biomass than the conventional types under trees. Among the legume fodder *Stylosanthes hamata* accumulated more biomass (2.50 t/ha) compared to Desmanthus and Lucerne under the shade of *Acacia leucophloea*.

Yield of fodder crops under *Acacia leucophloea*

Sl. No.	Fodder (Intercrop)	Germination%	Biomass yield (t/ha)	
			Intercropping	Pure cropping
1	Fodder Sorghum (CO 27)	85	8.33	15.00
2	Fodder Sorghum (COFS 29)	51	8.97	16.00
3	White Kolukattai	96	8.96	6.13
4	Black Kolukattai	98	9.50	6.25

5	Neelakolukattai CO1	95	9.92	7.13
6	Lucerne	93	1.34	2.75
7	Desmanthus	87	2.31	3.00
8	Stylanthus	95	2.50	2.00
	SEd	-	0.35	
	CD	-	0.75	

C) FOR INFORMATION

9. *Simarouba glauca* has been tested for edible oil, veneer and matchstick production

The softwood of *Simarouba glauca* has been found suitable for use as veneer and match stick. Hence, the veneer and match industries can perfect the technology for commercial utility. Similarly, suitability of Simaruba wood for pulping characters were assessed which indicated it suitability to mixed pulp.

10. RAPD fingerprints have been established for 83 ITC clones and 7 species clones of Eucalyptus for registration of clones

Molecular characterization of 91 Eucalyptus ITC clones which included 83 ET clones and 8 other species of Eucalyptus resulted in excellent polymorphism and indicated a wide range of diversity among the clones. The widely variable clones were informed to the stakeholder for further breeding and improvement.

11. Sewage sludge can be used as a potting media for raising tree seedlings in the nursery and sewage water for irrigation to forest plantations

The result revealed that the potting media consisting of either raw or composted sewage sludge has recorded maximum dry matter production. Hence sewage sludge could be used as potting media for raising tree seedlings in the nursery. The N, P, K of the different potting media at initial and 300 DAT were analysed.

The result of the sewage water study revealed that all the five tree species irrigated with sewage water is performing better than the bore well water. Effect of sewage sludge as component of potting media on dry matter production different tree species.

Effect of sewage sludge as a potting media on dry matter production of tree seedlings

Treatments	DMP (g plant^{-1}) 300 DAT				
	Et	Tg	Ce	Al	An
T_1 – Soil + Sand + FYM (1 1 1 ratio)	13 0	13.7	18 0	17.3	15 7
T_2 – Soil + Sand + RSS (1 1 1 ratio)	15 0	14 4	19 8	20 4	22 3
T_3 – Soil + Sand + 2 weeks CSS (1 1 1 ratio)	16 7	15 2	20 1	20 9	25 8
T_4 – Soil + Sand + 4 weeks CSS (1 1 1 ratio)	14 9	15 8	21 8	20 0	18 1
T_5 – Raw RSS alone	13 4	14 5	21 7	27 3	22 6
T_6 – Two weeks CSS alone	20 6	18 6	22 5	24 0	23.5
T_7 – Four weeks CSS alone	23 3	19 8	26 1	26 7	24.5

Microbial diversity and fertility status of shola forests of Nilgiris

Soils from three sholas *viz*., Long wood, Tiger Hill and Thai shola and their adjoining vegetation *viz*., tea plantation, Eucalyptus + wattle plantation and grass lands were subjected to this study. The density and diversity of bacteria and actinomycetes were greater in sholas compare to adjoining vegetation. The qualitative appraisal of bacteria and actinomycetes showed that *Bacillus* and *Streptomyces* are the dominant genera in all locations. The cytological and morphological characterization of dominant bacterial strains revealed the presence of greater number of gram positive and varied pigmented rhizosphere bacteria in shola soils.

In contrast to bacteria and actinomycetes, the fungal population was found to be higher in grass lands than in sholas and other vegetations. The dominance of *Penicillium* in shola forests and *Fusarium* in grass lands are the distinguishing features of the soil mycoflora of sholas and grass lands studied.

The diazotrophs *viz*., *Azotobacter* and *Azospirillum* and three phosphate solubilizers were also obtained from shola soils. Even though VAM spores were noticed in shola soils, complete absence of VAM infection in shola wildings was observed.

The physico-chemical analyses of soils of study area revealed that sholas are less acidic and more fertile than adjoining vegetation. Among locations, the microbial density was greater in Long wood and diversity in Tiger Hill shola.

4.9. HOME SCIENCE

Salient Research Findings

1. **Impact of entrepreneurship training of farmers on value added fruits products.**

   Fruit juices (RTS) and squash blended in different proportions with guava, lime and ginger was standardized and its storage quality was assessed. The techniques were also transferred to 25 farmers and the developed products were commercialized

2. **Standardization of oats based products.**

   Oats based value added products with low glycemic index and high acceptance suitable for diabetics were standardized.

3. **Development of Extruded products using soya mealmaker flour.**

   Soya mealmaker flour was blended with the refined wheat flour in the development of protein enriched extruded products.

4. **Effect of supplementation of iodized salt on the thyroid hormones and TSH profiles of selected subjects.**

   A survey was conducted among randomly selected female subjects (100) to elicit information on their socio economic status, awareness about iodine, iodine rich foods, iodised salt, IDD etc., by using a framed questionnaire. After supplementation of iodized salt a significant improvement of thyroid hormones and TSH profiles of selected subjects was observed.

5. **Processing of greens based ready-to-use vegetable soup mixes.**

   Greens based ready-to-use vegetable soup mixes by using araikeerai base (ASM) and ponnanganni base (PSM) from the vegetables viz., carrot, potato, beans and peas was standardized.

6. **Value added products from sesame oilcake**

Value added products from sesame oil cake viz., sesame nutrimix, chappathi mix and pittu mix were standardized and their storage quality was assessed

7. **Effect of nutrient supplementation on physical and cognitive development among school children.**

Supplementation of wheat, ragi and bajra based supplementary food mix with 5.0 per cent araikeerai powder and carrot powder resulted in significant improvement of physical, cognitive development and attendance percentage in 30 school going children compared to control

8. **Quality assessment of organically and conventionally grown agricultural and horticultural produce.**

Animal experiments with albino wistar rats fed with organically and conventionally cultivated agricultural and horticultural produces revealed that the serum protein, triodothyronine and RBC count was high in the organic diet fed group whereas the creatinine urea and total cholesterol were higher in the inorganic diet fed group

9. **Formulating nutritious fermented products from less utilized foods for better health.**

Isolated fermenting organisms from traditional fermented foods like ragi porridge, curd, fermented cooked rice, pickle etc were screened for selecting better strains to develop fermented foods. Totally 8 cultures were isolated and the same was deposited in the Microbial Type Collection Centre (MTCC), Chandigarh.

By using the isolated cultures and freezedried cultures purchased from MTCC namely *Lacto bacillus delbrucki, bulgaricus, lactis, acidophilus, leuconostoc mesenteroids* and *saccharomyces cerevisieae* different products namely tempeh, tapai, doughnut, dhokla, yoghurt, muffin, nata were developed using under utilized millets and pulses at different incorporation level. Traditional fermented foods namely athirasam, boli and muffin (bakery products) using under utilized millets & pulses were highly acceptable and these selected products were commercialized.

10. **Processing of protein fortified value added products from mango varieties.**

Soy flour, Green gram flour and Soy protein Isolate incorporated mango bar was developed and study on shelf life prooved its life upto to nine months.

Protein fortified mango bar was popularized and commercialized.

11. Educating Rural Parents in Child Rearing Through Creche.

Educational intervention programme undertaken in the creche during the project period had contributed significantly to the knowledge of the parents on improved child rearing practices and retention of knowledge as well except a few areas of development.

The Nutritious meal and the snacks fed to the children during the day stay in addition to the other meals helped in their physiological development according to the expectation for the age, as indicated by the anthropometric measurements made during the study.

The children were benefited immensely through the quality day care and developmental out comes among children enrolled in the creche.

The farming community was also benefited from the creche, since the creche offered a permanent solution to persistent problem of finding alternative child care facility for their infants while they engaged in field works or their other wards attending schools and also leaving the old to take the rest deserved with out assuming the burden of attending the grand children care.

4.10. WATER TECHNOLOGY CENTRE

A. Developing technologies for augmenting groundwater supplies through enhanced recharge in hydrologically critical areas

Analysis of weather data done during 2005-2006 in the study area revealed that only during the North-East monsoon (October to December, 2005), the rainfall is exceeding the mean monthly evaporation and in all other months, the rainfall is much lower than the potential evaporation

Recharge studies showed that during April 2005, the rate of decay was more by about 33 mm / day during the initial period of pond filling and maintained thereafter up to May 2005. The last stage of water level decay was found to be on a reducing rate of 17 mm / day. It was noted that during August, the rate of water level decay reached an all high of 50 mm / day during initial six days due to the high evaporation rate of more than 6 mm / day in the study area and later on, the decay reduced to 14 mm/day and 10 mm / day. The same trend was observed in the next filling viz., during Northeast monsoon with decreasing rate of water level decay towards the end of pond storage

Observation of water levels in the observation wells revealed that the boreholes NBW 8 and NBW 9 showed immediate benefits as soon as the pond is filled up. Moreover, the fluctuations were also seemed to be low when compared to the other boreholes viz., in NBW 2, 3, 4, 5, 6 and 7. The immediate benefit is also due to the downstream effect of the recharge

structure and the lateral distance between the recharge structure and the boreholes NBW 8 and NBW 9 are very nearer, in the case of NBW 8 it is only 64 metres. Cross-section of water levels further revealed that the boreholes NBW2, 5 and 6 followed the same pattern. However, the borehole NBW 3 is not influenced by the recharge structure as it is in the upstream position to the recharge structure.

- Recharge structure helped the small and marginal farmers to sustain their agricultural activities and the rural landless labourers to gain more employment.

B. Improving Water Management Strategies for increasing Water Use Efficiency and Increased Farm Income in Tamil Nadu

In the case fertigation studies, the moisture distribution pattern indicated that maximum moisture content was found closer to the emitter and decreased with increase in distance from the emitter and also with the depth.

Nutritionally, the distribution of ammoniacal nitrogen, available nitrogen, phosphorus and potassium was similar to that of soil moisture distribution. Nitrate nitrogen content increased with the increase in the distance from the emitter and also with the depth. Soil pH decreased as the distance from the emitter increased. Minimum salt concentration was observed near the emitter. Increase in salt concentration with increase in distance from the emitter was also evident.

C. Fertigation studies in banana

Fertigation studies in banana (cv. Grand Naine) in the farmer's field at Kuniamuthur indicated that there was a saving of 24.20 % of irrigation water (2017 mm) in drip method in comparison with the basin method of irrigation (2660 mm). The fruit yield had increased by about 13.40 % when fertigation was given with Water Soluble Fertilizer of urea and potash (100% soluble grade). Water Use Efficiency was higher (186 kg ha^{-1} per cm water) in the case of drip fertigation method. But, the WUE was only 158 kg ha^{-1} per cm water with basin method of irrigation.

D. Other technologies demonstrated for the farmers

Earthen hand bund in rice

The technology of forming a small hand bund of 15-20 cm at 25-30 cm inside the existing field bund (known as Kaivarappu (or) Kattuthalai in Tamil) saved irrigation water considerably and enhanced the grain yield. The technology was demonstrated in the farmers' holding in Kottur village of Parambikulam - Aliyar irrigation Project area.

4.11. CENTRE FOR AGRICULTURAL RURAL DEVELOPMENT STUDIES (CARDS)

Forecasting of Prices for Agricultural Commodities

Analysis of world and Indian cotton price forecast revealed that upto September 2005 the price of cotton may be hovering between Rs1900 and Rs2100 per quintal based on varieties and further there is no chance of reduction in prices in ensuing period. It is recommended that through adoption of Integrated Pest and Nutrition Management, production cost may be reduced and thereby profits could be increased.

Price forecast on Karpuravalli banana showed an upward trend and it may fetch Rs150 per bunch during September 2005.Similar trend would continue for Rasthali variety also. However the analysis showed that price for Poovan variety may decline during September 2005.

Similarly farmers were advised to reduce the area under Chillies during July2005 as there are no possibilities for increase in price of dry chillies. Similar forecasts were published for agricultural products like Turmeric, Maize, Small Onion, Gingelly and Blackgram.

All the above market information were published through Tamil and English dailies, Agricultural publications, Radio and Television and reached a large number of farmers.

Under research on Compulsory Agmark Grading for Ghee, Vegetable oils and Spices the following recommendations were made.

- Compulsory use of Agmark products in hospitals, students' hostel, noon meal scheme, big restaurants and restaurants attached to public institutions.
- Implementation of compulsory Agmark grading for Ghee.
- Exemption from tax for Agmark labelled products and certain percentage of all products may be brought under compulsory grading.

No doubt that improvements in quality of products and consumer welfare may be safeguarded provided the above recommendations are implemented.

5. Directorate of Extension Education

The Directorate of Extension Education (DEE) was started in 1972 and is primarily responsible for transfer of the latest technologies emanating from various programmes of Tamil Nadu Agricultural University to the farming community and extension personnel as detailed below

5.1 KRISHI VIGYAN KENDRAS

The Krishi Vigyan Kedras functioning under the control of Director of Extension Education,TNAU, Coimbatore - 3 are located in Coimbatore, Madurai, Ramnad, Aruppukkottai, Pechiparai, Sirugamani, Sandhiyur, Vamban, Needamangalam, Sikkal, Tirur, Virinjipuram, Tindivanam and Vriddhachalam. Except KVK, TNAU, Coimbatore all the other KVKs are funded by ICAR, New Delhi and functioning with the following mandates

- To organize skill oriented vocational training to farm men, farmwomen and youth in agriculture and allied fields
- To conduct on-farm testing in farmers' fields / holdings
- To conduct Front Line Demonstrations (FLDs) in cereals, horticultural crops, pulses and oilseeds
- To organize training for the field level extension functionaries of development departments
- To carry out various technologies through the extension activities for the benefit of farming communities

5.2 TRAINING DIVISION

The Training Division in TNAU has given training to the Officials from Agriculture and Development Departments as detailed below

Sl.No.	Training Programmes	Date	No. of Participants
1	Fodder seed multiplication and marketing to NDDB officers, Anand.	1-6 August 2005	19
2	PRDP Training on paddy and vegetable cultivation	Nov. 7 to Dec.4 2006	7
3	GOI Model training course on Micro irrigation and water conservation equipments	Nov. 30 to Dec. 7 2005	9
4	PRDP training on Farm Machinery	Dec. 5 - 31, 2005	3

5	Macro Management Mode – training on 'Dry farming technologies' to Agricultural - Extension Personnel . Government . of TamilNadu	Dec. 2005 to March 2006	505
6	Training for SPIC Marketing Field Personnel	Feb. 16-24, 2006	39
	Total		**582**

5.3 AGRICULTURAL TECHNOLOGY INFORMATION CENTRE (ATIC)

ATIC functioning under the Directorate of Extension Education has disseminated many agricultural technologies to the farming community. The relevant agricultural inputs are also distributed to the farming community through the ATIC Centre.

Communication Centre

Valarum Velanmai

- Life members: 9674
- Annual members: 2600

TNAU Newsletter

Published : 3400

Video Production Centre

Audio cassettes: 37 (Rate per lesson – Rs.40 + postal charges)
Video cassettes: 116 (Rate per lesson – Rs.300 + postal charges)
Video CD: 27 (Rate per lesson – Rs.200 + postal charges)

Overall Achievements of KVKs during the year 2005-06

Sl.No.	Activities	Achievements
1	Video Modules	44
2	Video Coverages	38
3	Trainings	1385
4	Skill Demonstrations	600
5	Village Meetings	667
6	Farm Advisory Services	3089

7	Exhibitions		125
8	Writing to dailies and farm magazines		428
9	Radio programmes		202
10	Publications		292
11	Messages disseminated through agricultural information services		322
12	Trainings organized for extension personnel by Training Unit		115
13	Newsletter printed & published		210
14	Subscription to Valarum Velanmai	Life (15 years)	8
		Annual	364
15	Field day		148
16	FLD		701
17	OFT		48
18	Farmers' Day (State Level)		24
19	Kisan Calls attended		3061
20	ISOPOM Pulses		210
21	ISOPOM Oilseeds		62
22	ISOPOM Maise		14
23	FFS Cotton Demonstration		302
24	ICDP SRI		231
25	ICDP Millets		81
26	ICDP IPM		76
27	Farmers study tour		2
28	SUBACS - Sugar beet demonstrations		2
29	Collaborative trainings		59
30	Monthly zonal meetings		48
31	Farm science club formed		104
32	Joint field visit		22
33	Village Campaigns		15

6. Directorate of Planning and Monitoring

The Directorate of Planning and Monitoring has been revived under University plan scheme since January 2003 with its prime focus as planning university development programme including education, research and outreach activities. Development of monitoring and evaluation system for all vital activities of the university is its major focus. The important mandates of this office is as follows.

To act as a liaison unit between the university and the state government as well as central government departments in implementing various schemes for the benefit of the farming community. To process new research scheme proposals for getting funds under five year plan budget outlays from state and central government. To monitor the state plan schemes and report the financial and physical progress of the schemes to the state government periodically. To process proposal for the venture capital schemes and recommend to the Vice-Chancellor for sanction as well as monitor the physical and financial progress. To process the consultancy proposals receive from individual scientists / institution of Tamil Nadu Agricultural University and recommend for approval. To process proposals for Agricultural Human Resource Development Project and implementation. To periodically assess the manpower requirement and capacity building needs of staff and plan for their development. To prepare the annual report to the university both in Tamil and English and submit to Government of Tamil Nadu before the budget session of legislative assembly every year. Besides, the replies for the queries raised by the members of legislative assembly and parliament during the budget session were prepared and submitted to the respective Departments of the Government.

Venture capital scheme

This is an innovative programme implemented in TNAU with the twin objectives of helping the farmers with provision of quality agricultural inputs (like seeds, seedlings, cuttings, grafts, bio-inoculants, vermicompost, biofertilizers, biocontrol agents, coconut tonic, advisory services etc.) and generation of revenue to the University. The seed money for the scheme is provided from the university education, research and development fund which has to be repaid within three years from the sanction of the scheme. During this year (2005-06), 9 schemes were sanctioned with a budget of Rs.8.16 lakhs. Totally 94 venture capital schemes were functioning in TNAU since 2003 with a budget of Rs.121.78 lakhs. From these, schemes the profit amount earned is Rs. 88.34 lakhs which compensates the capital amount received from the previous years.

Consultancy services

Consultancy services offered by TNAU scientists to the farmers, agri-preneurs, institutions, industries etc. were coordinated and monitored by this Directorate. The technical 'know how' an 'do how' a prerequisite for making agriculture a commercial venture is provided by the scientists of TNAU and the

clients pay the prescribed fees which is shared by the University and the scientists at 50:50 basis, if the service is institutional and 40:60 if it is an individual service by a scientist.

During 2005-06, thirteen consultancy services were offered by our scientists to various beneficiaries as presented below.

1. Super Spinning Mills, Coimbatore
2. CIMMYT, Mexico
3. e-learning Network, Thailand
4. ABC, Agricultural Food and Machineries Pvt Ltd , Coimbatore
5. Construction of green house and turn key project, Ooty
6. Neyveli Lignite Corporation, Neyveli
7. IRS, Anna University, Chennai
8. Interaction of Sugar sector restricting project, Fiji Islands
9. Research Institute for Humanity and Nature, Japan

Reports generated

During the year under report, this office has prepared the following reports as required by the University / Government of Tamil Nadu.

1. Monthly progress reports on plan schemes of TNAU
2. Budget speech on agriculture
3. Governor's address
4. Citizen charter
5. Policy note on agriculture
6. Achievements of TNAU
7. Annual report 2005-06

APPENDIX - I

CIVIL WORKS COMPLETED - 2005-2006

Sl. No.	Name of works	Estimate amount Rs.
1	Construction of Compound wall in front of Mosque in TNAU, Coimbatore	1 200
2	Providing reception (Drawing) rooms for suit No 1 and 3 of south house in TNAU. Coimbatore	3.500
3	Construction of Three number of sales counters near the ATM of SBI in TNAU. Coimbatore	1 800
4	Providing B.T road in South House at TNAU. Coimbatore	1.000
5	Construction of connecting corridor in between the main and Annex building in TNAU. Coimbatore	1 250
6	Construction of first floor in Annex in the existing press building in TNAU. Coimbatore -3	6.000
7	Repairing and block topping road leading from mineral water plant to Northern end of Play ground at TNAU. Coimbatore	1.750
8	Forming approach road to Bio-energy Farm machinery department ad Soil water conservation workshop at AEC & RI, TNAU, Coimbatore	3 350
9	Providing road in front of Bakery unit, new food tech new paper plant and new sanitary office at TNAU. Coimbatore	1.900
10	Providing improvement to the Vice-Chancellor's Office toilet at TNAU, Coimbatore	1.050
11	Providing flooring to vehicle shed and implement shed at IRC in TNAU, Coimbatore	2.000
12	Extension of New paper plant building in TNAU. Coimbatore	3.100
13	Formation of road and construction of retain wall-cum-kerb wall hear Centenary arch at TNAU. Coimbatore	6.600
14	Providing inter locking cement concrete block path in between the Technology park in TNAU, Coimbatore	2.000

15	Construction of Bio-energy workshop in AEC & RI, TNAU, Coimbatore	5.650
16	Repairs works for the rooms near students canteen in University Stadium (Tiles roof) at TNAU, Coimbatore	1.150
17	Construction of second floor over dining hall in Mother Theresa Hostel in TNAU, Coimbatore	7.250
18	Providing barbed wire fencing enclosure for segregation of residential colony from H.T per missies in AC & RI, Madurai	3.100
19	Construction of connecting corridor between main library and additional library and construction of Generator room for library Annex building at AC & RI, Madurai	1.450
20	Extension of Computer lab in first floor in the AEC & RI, in TNAU, Coimbatore	10.000
21	Construction of first floor computer lab Annex I in AEC & RI, TNAU, Coimbatore	10.000
22	Additional repair works and painting to the New sanitary office building (old vermi compost) at TNAU, Coimbatore	1.300
23	Providing pressed tiles in South house TNAU, Coimbatore	1.200
24	Special repairs for South and north compound wall along Maruthamalai road at TNAU, Coimbatore	2.300
25	Replacement of water supply line from bore well to Professor quarters in AC & RI, Madurai	1.000
26	Widening the existing BT road from ATIC building to RS block end in TNAU Campus at Coimbatore	1.750
27	Construction of computer lab in first floor (west wing) in AEC & RI, TNAU, Coimbatore	10.000
28	Providing pavement to the Technology park of AEC &RI, CPMB, SCMS, Horticulture and WTC & CPBG in TNAU, Coimbatore	10.000
29	Providing Drainage to the Technology park in TNAU, Coimbatore	8.000
30	Providing pavement to the computer lab in AEC & RI, TNAU, Coimbatore	1.900
31	Providing landscaping arrangements in between the newly constructed technology park TNAU, Coimbatore	4.500

32	Special repair to the office and toilets for staff in ORS campus at Tindivanam	1.000
33	Special repair to the main office in SWMRI campus at Thanjavur	1.000
34	Special repairs to Administrative block, staff quarters and Trainees hostel in RRS campus at Vridhachalam	1.000
35	Special repairs to Trainees hostel and Training hall in HRS campus at Thadiyankudisai	1.500
36	Providing Aluminium partition cabin with ceramic tiles flooring in Comptroller office in TNAU Campus at Coimbatotre	1.000
37	Providing road in the quarters Area in TNAU, Coimbatore	5.000
38	Providing inter locking connection of Drainage line from collection tank near technology park to main sewer line RS block at TNAU, Coimbatore	1.200
39	Providing paver tiles at the entrance of Technology o Technology park in TNAU, Coimbatore	1.100
40	Construction of Additional building in the first floor of Controller of examination building in TNAU, Coimbatore	4.800
41	Electrical installation arrangements to ladies hostel (Phase I) in HC & RI, Periyakulam	1.200
42	Special repairs to the Dean's quarters at ADAC & RI, Trichy	1.000
43	Providing internal and external water supply and sanitary arrangements for east wing of ladies hostel and kitchen cum dining hall at HC &RI, Periyakulam	5.000
44	Flooring of shed in the southern side of Farm machinery workshop and vehicle parking shed between energy park and processing workshop at TNAU, Coimbatore	1.500
45	Repairing the Glass house in the Department of Crop Physiology in TNAU, Coimbatore	3.200
46	Special repairs to office building and Associate professor quarters 4 No. supporting staff quarters 5 Nos. at ARC , Kovilpatti	1.365
47	Construction of Demonstration unit (Live stock shed) at KVK, Tirur	2.000
48	Construction of Demonstration unit (Mist chamber and shade net) at KVK, Tirur	2.000

84	Extension of Dining hall for Students Mess in FC & RI, Mettupalayam.	6.500
85	Construction of building for six nos. of staff quarters at KVK, Tirur	8.000
86	Construction of Administrative building (Lintel level) at KVK, Tirur	2.000
87	Construction of building for farmer's Hostel (upto Basement level) at KVK, Tirur	6.000
88	Construction of Administrative building (up to basement level) at KVK, Tirur	9.000
89	Providing mist chamber for Demonstration of Grafting at KVK, Madurai	1.000
90	Construction of building for Trainees hostel (FF roof slab) at KVK, Madurai	6.000
91	Construction of Building for 6 nos. of staff quarters at KVK, Virinjipuram	8.000
92	Special repair works to the office building in RRS Campus at Tirur in Thiruvallur District)	1.000
93	Construction of building for International Students hostel (South Wing) at TNAU, Cbe-3	10.000
94	Construction of building for International Students Hostel (North wing) at TNAU, Cbe-3	10.000
95	Construction of Administrative building (Lintel level) at KVK, Needamangalam	[illegible]
96	Construction of Administrative building (Lintel level) at KVK, Sikkal	[illegible]
97	Special repairs to the office and laboratory building at CRS, Srivilliputhur	1.000
98	Special repairs to the staff quarters (B1 to B6) in CRS, Srivilliputhur.	1.000
99	Construction of Administrative building (Lintel Level) at KVK, Virinjipuram	2.000
100	Construction of building for Microbiology lab in the First Floor over the existing PG lecture hall at FC & RI, Mettupalayam.	10.000

101	Construction of building for wood workshop in FC & RI, Mettupalayam	8.000
102	Construction of building for Generator room and store room for the dept. of Bio-Tech. & CPMB) in TNAU, Coimbatore-3	3.700
103	Construction of building for hostel office in TNAU, Coimbatore -3.	10.000
104	Maintenance of Administrative building (Providing Ceramic tiles) flooring in Seminar hall and Administrative buildings) at KVK, Vridhachalam	20.000
105	Providing New bore well at KVK, Tirur	1 000
106	Construction of Nursery shed at HC & RI, Periyakulam	3 000
107	Construction of Seed Processing and storage building (one unit) at HC & RI, Periyakulam	5 000
108	Renovation of sewage line around the Teacher's hostel in TNAU, Cbe-3.	2.300
109	Widening of BT road in front of south house, exam hall, microbiology building and students canteen in TNAU, Coimbatore -3.	5.050
110	Renovation and modernization of students lecture hall 4 nos. in AC & RI, Killikulam	2.000
111	Finishing work to plant pathology new building (West and East wing) in TNAU, Coimbatore -3	10.000
112	Construction of corridor and portico for plant pathology building in TNAU, Coimbatore -3	10.000
113	Special Repairs and other renovation works for Administrative building at KVK, Sirugamani	2.000
114	Providing barbed wire fencing around the KVK Campus at Sandhiyur	2.500
115	Construction of Arch. Gateway at KVK, Sandhiyur in Salem District.	2.450
116	Construction of New Mushroom lab dept. of Plant Pathology in TNAU, Coimbatore -3	8.000
117	Construction of building for ladies hostel (North wing) at HC & RI, Periyakulam	10.000
118	Construction of building for ladies hostel (west wing) at HC & RI, Periyakulam.	10.000

119	Providing pavements and drainage facilities to the newly constructed hostel building at FC & RI, Mettupalayam.	1.000
120	Construction of Administrative building (upto basement level) at KVK, Virinjipuram	9.000
121	Construction of building for ladies hostel in First Floor over the Ground Floor (North wing) of ladies hostel and Dining hall in HC & RI, Periyakulam.	10.000
122	Construction of building for ladies hostel in First Floor the Ground floor (West wing) at HC & RI, Periyakulam.	10.000
123	Construction of building for ladies hostel FF over the GF of under construction (East wing) at HC & RI, Periyakulam.	10.000
124	Construction of building for six nos. of staff quarters in first and second floor over the existing Ground Floor at KVK, Sirugamani	10.000
125	Construction of poly house (2 units) in RRS, Aruppukottai.	2.800
126	Construction of building for farmer's Hostel (upto basement level) at KVK, Virinjipuram	6.000
127	Construction of building for six nos of staff quarters (upto FF roof slab) at KVK, Madurai.	8.000
128	Repair works for freeman hall in Agronomy dept. in TNAU, Coimbatore -3	2.850
129	Construction of Additional toilets and bathroom in marutham hostel block (Gents hostel) First Phase in HC & Ri, Periyakulam	2.500
130	Additional works to New kitchen cum dining hall and east wing of ladies hostel at HC & RI, Periyakulam	2.450
131	Providing cattle shed in west lands for the department of SCMS in TNAU Coimbatore -3.	2.500
132	Construction of building for six nos.of staff quarters (GF) at KVK, Sandhiyur	8.000
133	Providing Aluminium partition and False ceiling to the cotton storage room at Dept. of Cotton DCPBG at TNAU, Coimbatore -3	1.000
134	Construction of Godown for the dept of Rice in CPMB at TNAU, Coimbatore -3.	8.950
135	Renovation work in old Engineering Hostel block No II in TNAU, Coimbatore -3.	10.000

136	Renovation work for the toilets in old Engineering Hostel block No. II in TNAU, Coimbatore -3	7.000
137	Construction of Farmer's Hostel (Basement to GF roof level) at KVK, Virinjipuram	9.000
138	Construction of building for farmer's hostel (Basement to GF roof level) at KVK, Sandhiyur	9.000
139	Construction of Administrative building (GF level to FF lintel) at KVK, Virinjipuram	10.000
140	Providing electrification to the Six nos of staff quarters (GF, FF and SF) at KVK, Sirugamani	19.500
141	Construction of staff quarters six numbers) (Ground Floor roof level at KVK, Sandhiyur	2.670
142	Construction of Farmer's Hostel (GF) at KVK, Tindivanam	8.585
143	Construction of staff quarters 6 nos. (Ground Floor roof) at KVK, Virinjipuram	2.670
144	Construction of Administrative building (FF roof) at KVK, Virinjipuram	5.590
145	Construction of Farmer's Hostel (Inner partitions and staircase head room) at KVK, Virinjipuram	3.000
146	Construction of Administrative building (FF roof slab) at KVK, Madurai	2.100
147	Construction of Administrative building (GF to FF roof) at KVK, Needamangalam	10.000
148	Construction of Farmer's Hostel (GF) at KVK, Needamangalam	9.000
149	Construction of Administrative building (FF and SF Brick walls) at KVK, Needamangalam	1.490
150	Construction of six numbers of staff quarters (finishing work) at KVK, Sirugamani	7.650

APPENDIX – II

LIST OF UNIVERSITY RESEARCH SCHEMES 2005-06

STATE - PLAN SCHEMES

		(Rs. in lakhs)
1.	Agricultural College and Research Institute, Killikulam	269.168
2.	Agrl. Farms and Engg. Workshops, Agrl. Engg. College & Res. Instt., Kumulur	73.259
3	Forest College & Research Institute, Mettupalayam	13.476
4.	Anbil Dharmalingam Agrl. College & Research Institute, Navalur Kuttapattu,Trichy	78.143
5	Scheme for Establishment of centre for Soil and Crop Management Studies, Coimbatore	10.433
6.	Scheme for Establishment of Centre for Plant Protection studies, Coimbatore	10.866
7.	Scheme for strengthening of Estate office, Coimbatore	54.005
8.	Up-gradation of Tamilnadu Rice Research Institute, Aduthurai & reorganisation of the setup in Director of Research (Agri) scheme at TRRI, Aduthurai	31.280
9.	Water Technology Centre Coimbatore	36.057
10.	P.G. Education and Training Programme leading to M.Sc Degree in Agricultural Bio-Technology, CPMB, Coimbatore	14.504
11.	Dept. of Bio Energy, College of Agricultural Engineering, Coimbatore	2.708
12.	Agrl. Regional Research Station, Aruppukottai	35.266
13.	National Pulses Research Centre, Vamban,	15.893
14.	Banana Research Station, Virinjipuram, Vellore	6.767
15.	Scheme for Research Project on Breeders Seed Increase, Agricultural Research Station, Bhavanisagar	26.941
16.	Directorate, Planning & Monitoring, Evaluation Cell, Coimbatore	20.717
17.	Scheme for Establishment of Plant Clinic centre RRS, Paiyur	3.648
18.	Scheme for Establishment of Plant Clinic Centre Killikulam	3.477

19.	Scheme Establishment of Regional Laboratory, Trichy	8.872
20.	Scheme for Establishment of Seed Technology Unit, Dept of Plant Breeding & Genetics, Madurai	13.753
21.	Krishi Vigyan Kendra, Coimbatore	23.112
22.	Scheme for Intensification of Research on Medium Staple Cotton Types, Kovilpatti	8.194
23.	Scheme for Establishment of Dept. of Sericulture, CPPS, Coimbatore	22.111
24.	Establishment of Regional Laboratory, Yercaud	1.410
25.	Scheme for Vegetable seed Production, Palur	8.056
26.	Scheme for Popularisation of Agrl. Implements thro Krishi Vigyan Kendra Coimbatore	0.050
27.	Scheme for Strengthening the P.G.Teaching and Research in Agrl. Management Teaching, Dept. of Agrl.& Rural Management, CARDS, Coimbatore	10.198
28.	Establishment of a Centre for Nematode Pests of Crop Plants, Dept. of Ag, Entomology, Madurai	1.642
29.	Scheme for Strengthening of Seed Production Programme, ARS, Pattukottai	4.785
30.	Scheme for Starting of Bio Fertilizer Production and quality control unit, Dept.of Agrl. Microbiology Coimbatore	4.959
31.	Scheme for Strengthening of Coconut Research in Thanjavur District, CRS, Veppankulam.	7.064
32.	Scheme for Strengthening of the Training Division in the Directorate of Extension Education, Coimbatore sub Centre at Kodaikanal	4.474
33.	Scheme for Strengthening of the Training Division in the Directorate of Extension Education, Coimbatore	8.993
34.	Establishment of Plant Clinic Centre, ARS, Bhavanisagar	6.392
35.	Establishment of Plant Clinic Centre, Cotton Research Station, Srivilliputhur	6.371
36.	Scheme for establishment of Agrl. Res. Station in North Arcot District, ARS, Vellore	2.887
37.	Scheme for Production of Breeder Seed of Paddy, Aduthurai	8.543

38.	Scheme for Upgrading the Sugarcane Experiment Station, Cuddalore	30.023
39	Scheme for Multiplication and Distribution of Pulses, CPB&G, Coimbatore	1.555
40.	Scheme for Multiplication and Distribution of Pulses, Oilseeds Research Station, Tindivanam	2.809
41	Strengthening of National Agrl. Res. Project Phase.I RRS, Paiyur	12.578
42.	Strengthening of National Agrl. Res. Project-Phase I RRS, Paiyur Sub Centre at RRS, Ambasamudram	4.350
43.	Strengthening of National Agrl. Research Project- RRS, Vridhachalam.	17.124
44	Strengthening of National Agrl. Research Project- TRRI, Aduthurai	16.936
45.	Strengthening of National Agrl. Research Project- ADAC& RI, Trichy	32.104
46.	Strengthening of National Agrl. Res. Project-Phase1 Office of the Director of Research, Coimbatore	14.295
47.	Strengthening of National Agrl. Res. Project – Phase-I Cuddalore	2.533
48.	Strengthening of National Agrl. Res. Project - Phase I Aruppukottai	9.173
49.	Strengthening of National Agrl. Res. Project - Phase I Aruppukottai, Sub-Centre at Periyakulam	13.483
50.	Strengthening of NARP Phase I, Aruppukottai, Sub Centre at Pechiparai	0.005
51.	Strengthening of National Agrl. Res. Project-Phase I Nagarkoil at ARS, Thiruppathisaram	2.779
52.	Strengthening of National Agrl. Res. Project-Phase I Tindivanam	2.171
53.	Strengthening of National Agrl. Res. Project-Phase I CRS, Srivilliputhur	1.495
54.	Strengthening of National Agrl. Res. Project-Phase I Thadiyankudisai	8.220
55.	Strengthening of Breeder Seed Programme (Thiruvannamalai), RRS, Vridhachalam	7.100

56.	Strengthening of Breeders Seed Programme (Thiruchengode), ORS, Tindivanam	8.738
57.	Commercial Exploitation of Heterosis in Rice TRRI, Aduthurai	0.500
58.	Exploitation of Hybrid Vigour and Development of Superior Hybrids in Redgram, Dept of Pulses, Coimbatore	4.485
59.	Scheme for Establishment of Video Library, Directorate of Extension Education, Coimbatore	2.975
60.	Remote Sensing Unit for Agrl. Application, Dept of Soil Science and Agrl. Chemistry, Coimbatore	9.258
61.	Starting of P.G. Programme leading to M.B.A., Dept of Agrl. and Rural Management, CARDS Coimbatore	4.732
62.	Scheme for the Estt. of Laboratory for survey and Research on Golden Nematodes of potatoes at Uthagamandalam, HRS, Vijayanagaram, Ooty	2.164
63.	Scheme for Breeder's seed Production in Groundnut, NPRC, Vamban	2.196
64.	Establishment of Seed Technology unit, Killikulam	5.513
65.	Operational Research on Pests and Diseases Management in Rice, Thanjavur	4.599
66.	Scheme for exploitation of male sterile lines for developing hybrid cotton, Dept. of Cotton, Coimbatore	1.436
67.	On Farm Trials on improved technologies developed for Crops grown in Salem and Dharmapuri Districts, TNAURC, Santhiyur, Mallur, Salem District	0.500
68.	Development of varieties resistance to Rice blast, sheath rot and ragi blast using tissue culture, Dept. of Plant Pathology, Coimbatore	5.397
69.	Development of Wasteland in alfisols of Pasumpon Theaver Thirumaganar and Ramanathapuram Districts through Crop Husbandry, Agro forestry and Hortl. Crops, Ramanathapuram	2.163
70.	Development of Wasteland in alfisols of Pasumpon Theaver Thirumaganar and Ramnad Districtrs through Crop Husbandry, Agro forestry and hortl. crops Ramanathapuram-Sub Centre –Paramakudi	5.793

71.	Physiological studies on salt tolerance and development of rice varieties to coastal and inland salinity. Tirur	7.258
72.	Strengthening Research on Medicinal and herbal plants in plains and Hills, Killikulam	1.065
73.	Strengthening research on medicinal and herbal plants in plains and hills, Yercaud	1.310
74.	Estt. of advanced centre for training in Water Management technology, WTC, Coimbatore	8.636
75.	Registrar's Office, Coimbatore	19.000
76.	NARP-II, North Eastern Zone - Vellore	8.510
77.	NARP-II, North Eastern Zone-Vellore- Sub Centre Dept of SS&AC, Coimbatore	3.841
78.	NARP-II, North Eastern Zone, Paiyur	6.393
79.	NARP-II, Cauvery Delta -Thanjavur	11.317
80.	NARP-II Cavery delta Zone Sirugamani	22.676
81.	NARP-II, Western Zone Bhavanisagar	2.576
82.	NARP-II, Western Zone- Mettupalayam	19.748
83.	NARP-II - Western Zone, Mettupalayam, Sub-Centre at Dept of SS&AC, Coimbatore	4.062
84.	NARP-II Western Zone, Periyakulam	37.723
85.	NARP-II Southern Zone, Aruppukottai	5.302
86.	NARP-II, Southern Zone, Vamban, Pudukottai	2.404
87.	NARP-II Southern Zone, Killikulam	9.273
88.	NARP-II Hilly and Tribal Zone, Yercaud	5.641
89.	NARP-II Hilly and Tribal Zone, Vijayanagaram, Ooty	7.548
90.	NARP-II High Rainfall Zone, Pechiparai	17.770
91.	Improvement of Samba Chillies for quality and yield, Kovilpatti	3.005
92.	Establishment of Agrl. Research Station at Vaigai Dam	39.574
93.	Breeding for desert purpose baby corn, Dept. of Millets, Coimbatore	0.901
94.	Establishment of Tapioca and Castor Res. Station, Yethapur, Salem District	30.416

95.	Development of Two Line Hybrid Rice suitable for Tamilnadu, HREC, Gudalur	3.141
96.	Urban Horticultural Development Centre, Chennai	8.500
97.	Scheme on hybrid seed production of ADTRH1 and CORH1 rice hybrids at ARS, Vaigaidam	1.000
98.	Development of hybrid cotton with bollworm resistance at Dept. of Cotton, CPBG, Coimbatore	3.766
99.	Development of new hybrid rice variety at Dept of Rice, CPBG, TNAU, Coimbatore	3.151
100.	Evaluation of high yielding Spanish / Virginia bunch groundnut variety suitable for multipurpose and foreign trade, Dept. of Oilseeds, CPBG, Coimbatore	2.400
101.	Development of two-line hybrid rice for high yield, ARS, Thirupathisaram	10.600
102.	Popularization of drip irrigation & fertigation system for tapioca, TCRS, Yethapur	0.850
103.	Improving the productivity of vegetable crops under rainfed cropping in Ramnad and Sivagangai Dts , ARS, Paramakudi	7.310
104.	Mass multiplication and popularization of *Simarouba glauca* for wasteland afforestation programme (Forest College and Research Institute, Mettupalayam)	8.560
105.	Developing Chilli varieties and technologies suitable for processing industries and export under dry land condition of southern districts of Tamil Nadu (Agrl. College and Res. Institute, Killikulam, Vallanad, Thoothukudi Dist.)	4.850
106.	Integrated farming system – A boon to vertisol dry land farmers (Regional Research Station, Aruppukottai, Virudhunagar Dist.)	2.570
107.	Commercial production of grafts / budded plants of arid and semi-arid fruit crops (Regional Research Centre, Aruppukottai, Virudhunagar Dist.)	3.320
108.	Development, evaluation and selection of superior pearl millet population for the drought prone rainfed vertisol region (Regional Research Station, Aruppukottai, Virudhunagar Dist.)	2.670
109.	Improvement of Jeeraga Samba rice for high yield and profit (Agricultural Research Station, Thirupathisaram)	5.200

110.	Integrated Farming System for sustainable agriculture in dry land vertisol (Agricultural Research Station, Kovilpatti, Thoothukudi Dist.)	1.670
111.	Eco friendly management of wastewater development at Dept. of Environmental Science, TNAU, Coimbatore	6.500
112.	Technology Development and farmers participatory research for yield maximization in rainfed rice for the coastal districts of Ramanathapuram at CSRC, Ramanathapuram	4.250
113.	Scheme for strengthening of nucleus and breeder seeds production in rice, RRS, Ambasamudram	4.000
114.	'Low cost' and 'No cost' cultivation and post harvest technologies for sustaining water and crop productivity in dry tracts of Tamilnadu, DPM, TNAU, Coimbatore	2.250
115.	Standardization of optimum population and manuring of *'Jatropha curcas'* for high yield and quality at HC&RI, Coimbatore	3.410
116.	Developing agro technologies for confectionery groundnut at CRS, Aliyarnagar	3.000
117.	Web based interactive net work for farmers through colleges of TNAU, DEE, Coimbatore	4.000
118.	Use of non-chemical methods of pests management in Cole vegetable crops, Dept. of Agrl. Ento., TNAU, Coimbatore	3.000
119.	Popularising tomato cultivation without pesticide spray use of disease resistance hybrids development at TNAU, Dept. of Veg.Crops, TNAU, Coimbatore	2.830
120	Potential change in cropping pattern towards export oriented commercialization of agriculture for income and employment stabilization, Dept. of Agrl. Economics, Coimbatore	2.920
121.	Establishing a system for outdoor cultivation of paddy straw mushroom at Dept. of Pl. Pathology, TNAU and Coimbatore	3.820

ICAR FULLY FINANCED RESEARCH SCHEMES

122.	AICRP on verification centre for Rap seed / Mustard, Dept. of Oilseed, Coimbatore	0.300
123.	Breeders seed production NS, HC&RI, Periyakulam	11.000
124.	Production of Breeder Seeds of annual oilseeds sunflower elite, Bhavanisagar	11.320

125.	Production of Breeder Seed of Annual Oilseeds seeds - Groundnut seed, Virudhachalam	10.000
126	Centre for advanced studies in SAUs and ICAR Dev Univ Genetic and Plant Breeding	4.600
127.	Establishment of Centre of Advanced Studies in Agronomy	3.600
128	Establishment of Advanced Studies in the Discipline of Agrl Microbiology, Coimbatore	6.550
129.	Establishment of Centre of Advanced Studies, Dept of Entomology, Coimbatore	3.250
130.	UNDP Project on Development and Large Scale Adoption of Hybrid rice Technology in India, FLD at Dept of Rice, CPBG, Coimbatore	11.260
131.	Drip Irrigation and Fertigation for yield maximization in Sugarcane crop, ARS, Ramanathapuram	3.020
132.	Impact of Dye Factory effluent on Cotton and Sunflower in Clayey Loam Soil and Degradability of Dye effluent wastes at Dept. of Microbiology, Madurai	1.500
133.	Development of small Paddy combine harvester Dept of ZRC, Coimbatore	2.350
134.	Monitoring changes in Soil organic matter status in a multiple cropping system under long-term fertilization, Dept. of SS&AC, Coimbatore	1.290
135.	Effect of seawater intrusion on the Groundwater quality and its management in the Coastal belt of Ramanathapuram at RRS, Aruppukottai	2.000
136.	Optimization of Nitrogen utilisation by Hybrid rice under sodic soil conditions using Chlorophyll, Trichy	1.833
137.	Studies on the effect of weather factors on the occurrence of Downy Mildew of Graphs, Dept. of Pl. Pathology, CPPS, Coimbatore	2.800
138.	Biological control of Nematode and Panama wilt complex disease of banana Main Centre, Dept. of Nematology and Plant Pathology, Coimbatore	2.544
139.	Maintenance of Nucleus and Breeder Seeds of Cotton, Dept. of Cotton, TNAU, Coimbatore	1.000
140.	Sustainable Management of Common property resources under agro-Forestry situations with special reference to Tank Irrigation System in Tamil Nadu, WTC, Coimbatore	2.640

141.	An impact of the transfer of Low Cost Technologies for improving the sanitation and water management practices of rural households, Dept of Food Science, HSC&RI, Madurai	2.429
142.	UNDP project on development of large scale adoption of hybrid rice technology in India (FLD), Aduthrurai	0.250
143.	Performance evaluation of drip fertigation system for increasing the yield & quality of Muscat Grapes, WTC, Coimbatore	2.216
144.	Weed Management and inter cropping practices for Cassava under irrigated and rice fallow situations, Dept. of Agronomy, AC&RI, Madurai	3.021
145.	Formulating nutrition fermented products from less utilized foods for better health, HSC&RI, Madurai	2.688
146.	Impact of establishing a guidance and counseling centre of the overall improvement of the life of rural families, Dept. of Fruit Crops, HC&RI. Coimbatore	2.688
147.	Educating rural parents in child rearing through crèche at HSC&RI, Madurai.	3.944
148.	Micro and secondary nutrients and pollutant elements in soils and plants towards FLD of improved Agrl. practices on Pulses, Dept. of SS&AC TNAU, Coimbatore	0.200
149.	Isolation and characterization on termitonyce fungal from termic mound, Dept. of Agrl. Microbiology, TNAU, Coimbatore.	1.731
150.	Mobilization of Zinc at root soil surface and performance of rice cultivars, Dean, AC&RI, Coimbatore	1.290
151.	Assessment technologies developed under AICRP- Spices, Dept. of Spices and Plantation Crops, Coimbatore	0.100
152.	Emeritus scientist-study on new viral disease in green gram and black gram at Dept. of Pl. Pathology, TNAU, Coimbatore	2.394
153.	Voluntary centers conducting trails in sunflower, safflower castor at Dept. of Oilseeds, Coimbatore	0.300
154.	Voluntary centre for Annual Oilseeds, Dept. of Oilseeds, TNAU, Coimbatore (groundnut)	0.150
155.	Voluntary centre conduct of varietals trial in castor oilseeds Kharif 2004 at Tindivanam	0.300

156.	Bio ecology and IPM for serpentine leaf turner. LIRIO MRZG trifoli burgess with special reference to cowpea and tomato, Dept of Agrl Entomology, Coimbatore	3.432
157.	Development of milky mushroom (*calocybeindica*) hybrids through protoplast fusions at Dept of Pl Pathology, Coimbatore	1.983
158.	Farmer participatory res. on integrated farming system in 100 external in pop sustainable environment, Dept of Agronomy, Coimbatore	6.403
159.	Processing of protein fortified value added products from mango varieties at HSC&RI, Madurai	3.749
160.	Site specific Nutrient Management for rice in salt affected soils of Tamil Nadu at ADACRI, Trichy	3.758
161.	Studies on rainfall climatology of agro-eco Zone no.4 of north west agro climatic zone of Tamilnadu, TRRI, Aduthurai	2.015
162.	Developing liquid formulation for Azospirrillum and Phospobacteria inoculants at Dept of Microbiology, Coimbatore.	3.309
163.	Network project on organic farming at the Dept. of Envi Sci., Coimbatore	8.520
164.	BT cotton hybrids evaluation monitoring at the Dept. of Cotton, Coimbatore	2.000
165.	BT cotton hybrids evaluation monitoring at ARS, Vaigaidam	0.500
166.	Development of technology package for aerobic rice production at Dept. of Agronomy, Coimbatore	4.584
167.	Network project on impact adaptation and vulnerability of sodium agriculture to climate change during X plan, WTC, Coimbatore	21.925
168.	Creation of cyber extension model village	2.394
169.	Pesticide use in agrl. - A study on farmers choice productivity and environ. implications at Dept. of Agrl. Economics, Coimbatore	2.361
170.	Improvement of sweet tamarind (*Tamarido indica l*) at HC&RI, Periyakualm	1.983
171.	Multi location evaluation of rice Germplasm at Dept. of Rice, Coimbatore	1.750

172.	Multi location evaluation of Germplasm of CPWR chickpea at Dept. of Pulses, Coimbatore	0.090
173.	Voluntary centre for conducting PI. Breeding trails at ARS, Paramakudi	0.050
174.	Evaluation of efficiency of granubor to enhance the productivity of different crops in borer deficient soils under rallis at Dept. of SS&AC, Coimbatore	0.850
175.	National network project: prevention and management of aflatoxin contamination at Dept. of Plant Pathology, Coimbatore	2.894
176.	Network project on wilt of coconut, Arecanut and Pilpalm at Dept. of Plant Pathology, TNAU, Coimbatore	2.054
177.	Mullarp molecular work on variability in YMV (Path.) at Dept. of Pulses, Coimbatore	0.250
178.	AICRIP - implementation of macro management scheme-FLD on newly released non hybrid rice varieties and technologies at TRRI, Aduthurai	1.500
179.	Multi location evaluation of rice Germplasm (Screening for resistant to rice tungro disease) at RRS, Tirur	0.700
180.	Bio-ecology and management of pod wasp (tanaostig modes cajaninae lasalle) an emerging pest of pigeonpea at Dept. of Agrl. Entomology, Coimbatore	2.094
181.	Impact assessment of agricultural research and technology in addressing the rice productivity constraints in Tamilnadu State at Dept. of Agrl. Economics, Coimbatore	3.212

ICAR - FRONTLINE DEMONSTRATION

182.	Front line "D" demonstration on efficiency of rhizobium-genetic manipulation (microbiology)	0.660
183.	Frontline demonstration on pulses under national pulses dev project, Coimbatore (Pigeonpea)	0.580
184.	Frontline demonstration in annual oil seeds sun flower, Dept. of Oilseeds, TNAU, Coimbatore	0.300
185.	FLD on ragi and small millets for demonstrating the productivity potential farmers, Dept. of Millets, Coimbatore	0.300
186.	FLD production potential on oilseed crops - soyabean Dept. of Pulses, Coimbatore	0.300

187.	Frontline demonstration on pulses under National Pulses Development	0.500
188.	FLD on sorghum - demonstration of productivity potential of sorghum varieties and hybrids Dept. of Millets	0.500
189.	FLD on sorghum - demonstration of productivity potential of sorghum varieties and hybrids Sub-centre at Kovilpatti	0.750
190.	FLD on pearl millets under centrally sponsored cropping systems, Dept. of Millets, Coimbatore	0.750
191.	Frontline demonstration under cropping system, RRS, Vridhachalam	0.150
192.	FLD on annual oilseeds groundnut at CRS, Aliyarnagar	1.500
193.	Frontline demonstration under intensive cotton development grant programme	1.000
194.	FLD on cotton under ICDP CRS, Srivilliputhur	1.250
195.	Frontline demonstration in annual oilseed crops (Castor), Yethapur	0.300
196.	Frontline demonstration on annual Oilseeds, Groundnut, RRS, Vridhachalam	0.300
197.	Frontline demonstration in oilseeds-rice, groundnut and sequence	0.150
198.	First line demonstration - maize, Dept. of Millets, CPBG, Coimbatore	5.000
199.	Front line demonstration ICDP Cotton	1.250
200.	FLD on annual oilseeds - groundnut at RRS, Vridhachalam	0.300
201.	FLD on Pulses - Kovilpatti	0.500
202.	FLD /ORP prototype Dept. of Bio-energy, AEC&RI, Coimbatore	5.000
203.	FLD on cotton at RRS, Arruppukottai	0.950
204.	FLD on Mullarp at Dept. of Pulses, Coimbatore	0.800
205.	FLD on castor for conducting trial for the year 2004-05 at Dept. of Oilseeds, Coimbatore	0.300

ICAR- KVK

206.	Establishment of Krishi Vigyan Kendra, Sirugamani	30.000

207.	Establishment of Krishi Vigyan Kendra, Vridhachalam	29.000
208.	Establishment of Krishi Vigyan Kendra, Santhiyur	30.800
209.	Establishment of Krishi Vigyan Kendra, AC&RI, Madurai	22.900
210.	Establishment of Krishi Vigyan Kendra, Tindivanam	17.400
211.	Establishment of Krishi Vigyan Kendra, Pechiparai	23.800
212.	Establishment of Krishi Vigyan Kendra, Ramanathapuram	19.800
213.	Establishment of Krishi Vigyan Kendra, Tirur	16.900
214.	Establishment of Krishi Vigyan Kendra, Virinjipuram	14.900
215.	Establishment of Krishi Vigyan Kendra, Vamban	19.800
216.	Establishment of Krishi Vigyan Kendra, Needamangalam	12.900
217.	Establishment of Krishi Vigyan Kendra, Sikkal	12.900

ICAR – PARTLY FINANCED RESEARCH SCHEMES

218.	AICRP on harvest and post harvest tech. Dept. of Agrl. Processing, CAE, Coimbatore	59.207
219.	AICRP on farm implements machinery and production of prototypes, Dept. of Farm Machinery, CAE, Coimbatore	68.875
220.	Human Engineering and safety in agriculture Dept. of Farm Machinery, CAE, Coimbatore.	18.440
221.	AICRP on renewable energy sources – biogas tech. Dept of Bio-energy, CAE, Coimbatore.	42.232
222.	AICRP on tuber crops Dept of Vegetable Crops, Coimbatore.	11.300
223.	AICRP on vegetable improvement including chillies, Dept. of Veg. Crops, Coimbatore	26.620
224.	AICRP on fruit improvement (Tropical fruits) Dept. of Fruit Crops, Coimbatore	28.287
225.	AICRP on Spices and Cashew nut, Dept of Spices and Plantation Crops, Coimbatore.	27.010
226.	AICRP on floriculture improvement Dept of Floriculture and Landscaping.	6.516
227.	AICRP on plant parasite Nematode with integrated approach for their control, Dept of Nematology, Coimbatore	19.570

228.	AICRP on pesticide residues Dept of Agrl. Entomology. Coimbatore	9.772
229.	AICRP on mushroom improvement Dept of Plant Pathology. Coimbatore	12.793
230.	AICRP on Acarology Dept of Entomology. Coimbatore	9.250
231.	AICRP on biological control of crop. pests and weeds, Dept of Agrl. Entomology. Coimbatore	9.500
232.	AICRP on cropping systems research. Coimbatore. Dept of Agronomy. Coimbatore	42.080
233.	AICRP on soil test with crop response (ECF) Coimbatore. Dept of Soil Science and Agrl. Chemistry. Coimbatore	23.700
234.	AICRP on long term fertilizer experiments. Dept of SS&AC. Coimbatore	8.850
235.	AICRP on micronutrient of soils. Dept of SS&AC. Coimbatore	23.500
236.	AICRP on weed control Dept of Agronomy. Coimbatore.	23.43
237.	AICRP on biological nitrogen fixation Dept of Agrl. Microbiology Coimbatore	10.350
238.	AICRP on seed tech. research Dept of Seed Science and Technology. Coimbatore	17.745
239.	AICRP on oilseeds (Sunflower) Dept of Oilseeds. Coimbatore	29.500
240.	AICRP on rice Dept of Rice. Coimbatore	37.920
241.	AICRP on small millets Dept of Millets. Coimbatore.	21.575
242.	AICRP on sorghum dept of Millets. Coimbatore.	24.840
243.	AICRP on pearl millet Dept of Millet. Coimbatore.	18.850
244.	AICRP on cotton Dept of Cotton. Coimbatore.	22.780
245.	AICRP on soybean Dept of Pulses. Coimbatore	14.000
246.	AICRP on forage crops Dept of Forage Crops. Coimbatore	24.150
247.	AICRP on maize improvement Dept of Millets. Coimbatore	11.500
248.	AICRP on water management and soil salinity Dept of Agronomy. AC&RI. Madurai	27.600
249.	AICRP on palmyrah AC&RI. Killikulam	11.200

250.	AICRP on oilseeds (Palms) TRRI, Aduthurai	6.170
251.	AICRP on rice, TRRI, Aduthurai	27.570
252.	AICRP on jute and allied fibres, TRRI, Aduturai	7.760
253.	AICRP on Management of salt effected Soil and use of saline water in Agri, Trichy	17.030
254.	AICRP on Oilseeds - off season nursery (Groundnut), CRS, Aliyarnagar	11.500
255.	AICRP on Palms, CRS, Aliyarnagar	19.770
256.	AICRP on fruit improvement project - Arid Zone Fruits, Aruppukottai	14.044
257.	AICRIP on Water Management and soil salinity, ARS, Bhavanisagar	20.167
258.	AICRP on oilseeds (Rabi Summer Groundnut), ARS, Bhavanisagar	4.000
259.	AICRP on Sugarcane, SRS, Cuddalore	12.000
260.	AICRP on Agrl. Meterology, ARS, Kovilpatti	10.500
261.	AICRP on Dryland Agriculture, ARS, Kovilpatti	39.223
262.	AICRP on under utilized and under exploited Plants, FC&RI, Mettupalayam	11.910
263.	AICRP on Agro-forestry, FC&RI, Mettupalayam	17.066
264	AICRP on fruit improvement (Tropical Fruits), HC&RI, Periyakulam	20.490
265.	AICRP on sub-tropical fruits (Mango) (main) main-centre - Periyakulam sub-centre - Killikulam	9.020
266.	AICRP on betelvine diseases, SRS, Sirugamani	12.548
267.	AICRP on cotton improvement, CRS, Srivilliputhur	66.250
268.	AICRP on Oilseeds - Castor- T&CRS, Yethapur	19.250
269.	AICRP on palms, CRS, Veppankulam	25.620
270.	AICRP on Oilseeds - Groundnut, RRS, Vridhachalam	25.000
271	AICRP on oilseeds - sesamum, RRS, Vridhachalam	29.500
272.	AICRP on spices – cashew, RRS, Vridhachalam	14.700

273.	AICRP on pigeonpea (Main centre). Dept. of Pulses. Coimbatore	40.300
274.	AICRP on spices - cardamum. HRS. Yercaud	6.516
275.	AICRP on NSP – crops. ARS. Bhavanisagar	17.006
276.	AICRP on MULLARP. Dept. of Pulses. TNAU. Coimbatore	9.320
277.	AICRP on MULLARP (Main centre). NPRC. Vamban	27.800
278.	AICRP on pigeonpea. NPRC. Vamban	17.000
279.	AICRP on sorghum. ARS. Kovilpatti	11.000
280.	AICRP on Groundwater utilisation. WTC. Coimbatore	14.020

GOI - SPONSORED RESEARCH SCHEMES

281.	BTC (a) scheme for setting up of Regional Centre for Development of bio-gas. Dept of Bio-energy	18.000
282	Establishment of Plasticulture Development of plasticultural application and Dev in Agrl operation. Dean (Engineering)	4 811
283.	Integrated programme for Development of Spices sub-centre. HC&RI. Periakulam	5 000
284	Integrated programme for development of spices sub-centre - RRS. Aruppukottai	0.200
285.	Integrated programme for development of spices sub-centre - ARS. Bhavanisagar	1 150
286.	Integrated programme for development of spices sub center. VRS. Paiur	0 400
287.	Integrated programme for development of spices sub-centre - HRS. Pechiparai	2.630
288.	Integrated programme for development of spices sub-centre - HRS. Thadiyankudisai	2.500
289.	Integrated programme for Development of spices sub-centre -HRS. Yercaud	3.000
290.	Comp. scheme for studying the cost of cultivation in principle crops in Tamil Nadu (CCPC). Dept of Agrl. Economics	116.000
291.	P.G. Education and Training programme leading to M.Sc Degree in Bio-technology under DBT programme. Coimbatore	17.280

292.	Strengthening of plant quarantine facilities designated inspection authorities, Dept of Plant Pathology	0.400
293.	Starting of experimental of agro meteorological advisory services (AAS- NCMRWF) at HRS, Pechiparai	1.850
294	Starting of experimental agro-mat service, medium range weather forecasting (NCMRWF) Dept. of Agronomy , Coimbatore	2.810
295	Establishment of CPMB Phase II tagging genes for leaf folder, plant hopper, yellow stem borer resistance and DNA finger printing of rice varieties	20.020
296.	Development of Medicinal Aromatic Plants, Dept. of Floriculture and Landscaping, Coimbatore	3.050
297.	Scheme for starting of experiment Agrl. Meteorological Advisory Service, Kovilpatti	1.860
298.	Indian council of forestry research and Education Development of UG and PG education, Coimbatore	15.000
299.	Integrated development programme of cashew, Virudhachalam	2.000
300	Starting of experimental agro-meteorological advisory services (NCMREWF), Aduthurai	2.870
301.	Establishment of users centre at TNAU under bio technology information systems – BTIS, Coimbatore	16.840
302.	Settling up of Food Processing Laboratory at CAE, TNAU, Coimbatore	25.000
303.	Bio-diversity of plant parasitic predatory and entomophilic nematodes in Western Ghat Regions of Tamil Nadu at Dept. of Nematology, Coimbatore	1.050
304.	Development and adoption of appropriate technology for waste land improvement foot hills of Marudamalai region at Dept. of S&WC, Coimbatore	5.290
305.	Technology mini mission on Mini Mission-I, Dept. of Cotton, Coimbatore	15.300
306.	Establishment and maintenance of Herbal Garden, Tanjore	2.600
307.	Improvement of Sorghum using radiations and bio-technological approaches, Dept. of Millets, Coimbatore	3.804

308.	Establishment of Regional Analytical, Dept. of Plant Breeding and Genetics, Madurai	2.750
309.	Development of Male sterility in draught resistance culture for the production of hybrid rice, Killikulam	4.250
310.	Management of Nematodes and fungal disease complex in betelvine with plant growth promoting Rhizobacteira, Dept. of Nematology, Coimbatore	2.020
311.	Development of desert large seeded Groundnut through induced Muta Genesis Dept. of Oilseeds, Coimbatore	2.134
312.	Studies on the role of Nematodes as Dysocropes of litter decomposition in Western Ghats of Tamilnadu, Dept. of Nematology, Coimbatore	2.640
313.	Enhancing the shelf life of Banana using diffusion channel, Dept. of Agrl. Processing, Coimbatore	6.150
314.	Development of natural trap gasifier for steel and hot air generation for Turmeric Boiling and drying, Dept. of Bio-Energy, Coimbatore	3.760
315.	Development of transgenic banana with increased shelf life, CPMB, Coimbatore	8.020
316.	Development of indica Rice lines capable of synthesizing provitamin 'A' in Endosperm by genetic transgenic transformation, CPMB, Coimbatore	7.450
317.	Studies on the bio-diversity of Sholas and Grasslands and their restoration in the Nilgiris Plateau Southern India, Mettupalayam	2.132
318.	Energy water balance and crop growth monitoring using remote sensing and simulation models for large area applications, Dept. of Meteorology, Coimbatore	2.990
319.	Laying out demonstration plot, KVK, TNAU, Coimbatore	3.500
320.	Mass production of bio-logical agents demonstration and adoption of techno logy for management of Coconut leaf eating Caterpillar 'Opisina Arenosella', Aliyarnagar	3.250
321.	Coupling atmospheric and biospheric models for understanding Biosphere atmospheric hydrological cycle in rice based agro eco systems in Cauvery Delda Zone, Trichy	1.663
322.	Engineering nucleocapsid genenediated TSWV resistance in elite tomato cultivars of Tamilnadu, Dept. of Plant Pathology, Coimbatore	1.440

323	Development and evaluation of a women friendly direct paddy seeder with ergonomic design features Dept. of Farm Machinery, Coimbatore	1.870
324.	Studies on assessing the economic impact of AAS Service of NCMRWF at Dept of Meteorology, Coimbatore	1.460
325.	Demonstration and evaluation of IPM package for Coconut Eryophyid mite in Coimbatore District, Dept. of Agricultural Entomology, Coimbatore	8.173
326.	Medicinal and Aromatic Plants, Pechiparai	2.750
327.	Development of coaster/saline and sand dune affected areas of Nagapattinam Dist in Tamilnadu, Dept. of SS&AC, TNAU, Coimbatore	2.000
328.	Development of new TGMS lines through mutation for utilising two line breeding in rice, Dept. of Rice, TNAU, Coimbatore	2.458
329	NSP crops on DUS testing implementation of protection of plant var. and farmers rights legislation through DUS testing, Dept. of SS&AC, TNAU, Coimbatore	6.100
330.	Training rural women on vermiculture and production IB enriched vermicompost from bio-wastes for entrepreneurship development Dept. of Envi. Sciences, TNAU, Coimbatore	3.500
331.	Screening superior genotypes of Eucalyptus for bio-drainage eco-physiological approaches, FC&RI, Mettupalayam	3.340
332.	Improvement of S&T infrastructure in Universities and Higher Educational Institutions (Fist), Director, CPMB, Coimbatore	1.600
333.	Demonstration on utilization and Mass Production of biological control agents to rural women folk in Sericulture, Dept of Sericulture, TNAU, Coimbatore	2.253
334.	Design AND development of high rare reactor and its field evaluation for treating waster water from rubber processing, Dept. of Environmental Science, Coimbatore	2.332
335.	Impact analysis of watershed environmental aspects, WTC, Coimbatore	19.330
336.	Molecular marker assisted breeding for Development of gall midge resistant rice varieties and hybrids suitable for Tamil Nadu, Dept. of Pulses, TNAU, Coimbatore	4.270

337.	Breeding for yellow vein mosaic virus resistance in Okra improving socio economic status of farmwomen through capa. building on dise. resistant hybrid seed. Dept. of Vegetable Crops	2.981
338	Technology transfer and upkeep improved water management strategies for increased farm income in Tamil Nadu. WTC. Coimbatore	21.795
339.	Technological empowerment of rural women in the production of Arbuscular Mycorrhizal Biofert. Dept. of Microbiology. TNAU. Coimbatore	4.209
340.	Intellectual property education research and public outreach. Dept. of Agrl Economics. TNAU. Coimbatore	1.290
341.	Development of a biological treatment technology for community waster water. Dept of Agrl Microbiology. TNAU. Coimbatore	6.230
342.	Development of eco-friendly colour cotton varieties with high yield and fibre quality through induced mutagenesis. Dept of Cotton. TNAU. Coimbatore	1.963
343.	Evaluation of humic acid and its derivatives for the management of root-knot nematode meloidogyne incognita in vegetable nurseries. Dept. of Nematology. Coimbatore	2.640
344	Invertebrate biodiversity in the irrigated rice field of Tamil Nadu. Dept. of Agrl. Entomology. TNAU. Coimbatore	2.600
345.	An agro ecological frame work for integrated nutrient management with special ref. to Periyar- Vaigai command area of TN Dept. of SSAC. Madurai	2.430
346	Devt. of an ecologically sustainable bio-pesticide formulation for the management of major pests and diseases in irrigated rice eco system on TN. Dept. of Bio-tech.. Coimbatore	6.427
347.	Measures for conservation and sustainable utilization of medicinal plants of Western Ghats. FC&RI. Mettupalayam	1.600
348.	Large scale demonstration on management of Parthenium through integrated approach. dept. of Agronomy. Coimbatore	2.530
349.	Comparative mapping of diff. soybean mapping population using SSR markers and mapping major QTLS associated with yield. Dept. of Millets. Coimbatore	0.820

350.	Establishment of transgenic green house facility at TNAU, Coimbatore, Dept. of Bio-technology, TNAU. Coimbatore	41.000
351.	Introduction of litchi and kiwi at different elevations of Palani Hills, HRS, Kodaikanal	0.640
352.	Devt. of an integrated bio systems for urban sewage contaminated sites for heavy metal pollution abatement, Dept of Rice, Coimbatore	1.826
353.	Technological empowerment of rural women through hybrid rice seed production, Dept. of Rice, TNAU. Coimbatore	5.080
354.	Devt. and promotion of suitable *Simaruba* with medicinal plants based agro-forestry models (NMPB), Mettupalayam	4.000
355.	Production technologies and economics of production and marketing of select medicinal plants in Tamilnadu, Dept. of ARM, CARDS, Coimbatore	3.690
356.	*Coconut based cropping system with medicinal plants for* sustainable production, KVK, DEE, Coimbatore	2.000
357.	Technologies for the value addition wastes at CPMB (Envi. Sci.), Coimbatore	6.640
358.	Development and cultivation of medicinal plants, RRS. Paiyur	1.000
359.	Studies on use of bottom slag in crop production Dept. of SS&AC, Coimbatore	9.838
360.	Taxonomic studies on coccids of Agrl and Hort. Crops of economic importance, Dept. of Agrl. Entomology, Coimbatore	12.651
361.	Mapping and mutational analysis of genetic loci associated with quantitative resistance to pl. hopper in rice and estt. their functionality - a functional, Bio-tech. Coimbatore	7.250
362.	Cloning and engineering of new cry genes of *bacillus thuringiensis* to improve toxicity of their proteins against *helicoverpa armigera*, Dept. of Bio-tech, CPMB, Coimbatore	5.332
363.	Integrated management of white stem borer of coffee xylotrechus quadripes in shevroys and pulneys, Dept. of agrl. Ento., TNAU. Coimbatore	4.449
364.	Development of elite planting material and model plantation, FC&RI, Mettupalayam	37.750

OTHER AGENCIES-GOVERNMENT UNDERTAKING / DEPARTMENTS

365.	Institution of a chair in agricultural marketing, Dept of Agrl Economics, TNAU, Coimbatore	4.900
366.	ADB endowment on botanical pest control, department of plant pathology	0.572
367.	Scheme on evaluation of long-term effect on the utilization of effluent water from TNPL for irrigation, Dept. of Env Sciences	1.175
368.	Commissioner of sugarcane Chennai-co-evaluation of sugarcane verities resistant to rot disease with high yield and high quality at SRS, Cuddalore	24.390
369.	Establishment of sub-bio centre for production and supply of planting materials of cassava, TCRS, Yethapur	5.000
370.	Acquisitionof iron by sorghum cultivars, Dean, AC&RI, Coimbatore	2.070
371.	Afforestation of wastland through energy plantation, Mettupalayam	0.500
372.	Strengthening of state land use board popularisation of Pulses varities in drylands, Vamban	0.508
373.	Technology development saline water irrigation to increase the crop production in the coastal saline soils of Ramanathapuram Dist, ARS, Ramanathapuram	0.400
374.	Maximising land and water use efficiency through dryland horticultural system, Dept. of SWC, AEC&RI, Coimbatore	1.518
375.	Impact evaluation of IAIP in Tamil Nadu, WTC, Coimbatore	1.300
376.	Transforming unproductive forests dependents lands into productive agrl. land through eco friendly integrated seed and crop management technologies, SST, Coimbatore	0.300
377.	Seed and seedling management techniques for improvement of vegetables productivity of tribal farmers under rainfed trails of Kalrayan hills SST, Coimbatore	0.748
378.	Effect of textile dying industry effluent on land and groundwater quality and their consequent impacts on human & animal health agrl. Production and eco systems in West TN, Dept. of Agrl. Econ., Coimbatore	3.052

379	Hadp sponsored scheme on mass multiplication of metarrhizium anisopliace and supply of horticultre, Dept. at HRS, Ooty	1.400
380	Mid term effect to strengthen the present research in tewls area development, Dept. of Envi. Sci., Coimbatore	1.901
381	Estt. research and training centre for sustainable mountain farming system and creating a model organic micro watershed, HRS, Ooty	7.292
382	Studies on the assessment of soil health in the polluted areas of vaigai river basin, Dept. of Agrl. Microbiology, AC&RI, Madurai	0.880
383	Transforming NLC mize spoilt into productive agriculture land thro. ecofriendly integrated farming system, SCMS, Coimbatore	36.780
384	Pilot studies in the stabilization, re-vegetation and restoration of ecology in NLC mine slopes, SCMS, Coimbatore	13.650
385	Micro propagation and mass multiplication of melia dubia and albizia and DNA finger printing of sandal teak neem and nelli at FC&RI, Mettupalayam	3.030
386	Establishment of domestic and export market intelligence cell, CARDS, Coimbatore	12.000
387	27 HADP sponsored schemes for the year 2004-05 at HRS, Ooty	47.000
388	Monitoring and management of pesticide pollution in an irrigated command and hilly ecosystem Dept. of SS&AC, Coimbatore	2.260

OTHER AGENCIES - PRIVATE AGENCIES SCHEMES

389	Endowment institution of chair in pesticide management, Dept. of Agrl. Entomology, TNAU, Coimbatore	2.620
390	Institution of tuticorin alkali chemicals and fertilizers endowment for research on bio-control agents, Dept. of Agrl. Entomology, TNAU, Coimbatore	0.540
391	Endowment for the creation of professional chair in Agrl. Entomology in pesticide Toxicology, Department of Agrl. Entomology	6.692
392	(Endowment)- investigation on bacterial insecticides bacillus thuringiensis murash (BTK), Dept. of Agrl. Entomology	0.742

393.	Institution of a chair in undertaking experiment of fertilizers use in soil and crop management studies (Endowment). Dept. of SS & AC	1.650
394.	Scheme on an economic analysis of coconut industry in Tamil Nadu, Dept. of Agrl. Economics	0.370
395.	Eco-friendly utilisation of seshasayee paper mill effluent and solid wastes and monitoring its impact on soil and ground waste, Dept. of Envi. Sciences, TNAU, Coimbatore	0.782
396.	Longterm effect of bioearth distillery effluent and effluent turned liquid fertilizers on the changes in soil physical, chemical and biological properties and yield	4.223
397.	Bioefficacy and residues of thiamethoxan in coffee and sugarcane in the toxicology lab. Dept. of Agrl. Entomology, Coimbatore	0.670
398.	Studies on the impact of sugarcane distillary effluent on the agro-eco system through modeling, kumulur	0.015
399.	Bioefficacy of neem azal against pests of cotton, onion, vegetable and Fruit crops, Dept. of Agrl. Entomology, Coimbatore	0.500
400	Balanced fertilization for maximum economic yields of sugarcane in periyar-vaigai command area of Tamilnadu, SS&AC, Madurai	0.100
401.	Bioefficacy, phytotoxi- city and effect on natural enemies on cotton for new products viz. Kinadon gold, lancer gold, ustaad gold, etc Dept. of Agrl. Ento., Coimbatore	0.200
402	Evaluation of thiometo- xam 25 wg and diafenthiuron 50wp against pests and natural enemies of grapes, brinjal and tobacco Dept of Agrl. Ento., AC& RI, Madurai	0.533
403.	Popularisation of transgenic cotton for management of bollworm in Tamilnadu, Dept. of Agrl. Ento., Coimbatore	0.799
404.	Evaluation of trifloxy sulfum for control of weeds in cotton and effect of its residue on crops grown in sequence, Dept. of Agronomy, Coimbatore	1.349
405.	Seed coating polykote and polykote pelleting technologies for agrl. and hort. crops, Dept. of SST, Coimbatore	0.270
406.	Devt. and testing of location specific IPM modules for released BT. Cotton hybrids, Dept. of Agrl. Ento., Coimbatore	0.588

407.	Bioefficacy and residues of lambda cyhalothrin CS formulation in rice and cotton, Dept. of Agrl. Ento., Coimbatore	0.842
408.	Evaluation of the score 25EC against leaf spot of tomato, onion, cabbage and powdery mildew of anthracnose and mango, Dept. of Plant Pathology, Coimbatore	0.300
409.	Bioefficacy and phytotoxixity and residues of abamectin (1.9% EC) on cotton cabbage and rose, Dept. of Agrl. Ento., Coimbatore	0.370
410.	Bio-efficacy, phytotoxicity and resides of azoxystrobin (amistar 25EC) in mango, rice, cucumber, tomato and chilli, Dept. of Agrl. Ento., Coimbatore	1.170
411.	Improvement of coleus forskohlii, Dept. of Floriculture and Landscaping, Coimbatore	0.444
412.	Assessement of bensul furon methyl residue in rice based cropping system, Dept. of Agronomy, Coimbatore	0.560
413.	Evaluation and enriching the poabs green organic manure for eco-friendly farming and organic agriculture, Dept. of Envi. Sci., Coimbatore	0.710
414.	Evaluation of sumitomo products in field crops, Dept. of SS&AC, TNAU, Coimbatore	0.805
415.	Maximising the productivity of coconut with the use of bio-jeevan, Dept. of Spices and Plantation Crops, Coimbatore	3.000
416.	Pesticide residue monitoring in fruits and vegetables, Dept. of Agrl. Entomology, Coimbatore	2.000
417.	Assessing the impact of ITC (PSPD) effluent on soil and ground water, Dept. of Envi. Sci., Coimbatore	0.969
418.	Bio-efficacy of KN 128 (Indoxacarb 15EC) against rice leaf folder (Cnaphalocrosis Medinalis) Dept. of Agrl. Ento., Coimbatore	0.239
419.	Development of high yielding casuarina clones and screening alternate pulpwood species, FC&RI, Mettupalayam	1.840
420.	Eco-friendly utilization of sugar industrial wastes-reclamatory and rehabilitory effects on sodic soil eco-system, ADAC&RI, Trichy	1.358

421.	Effect of micronutrients on flower yield and Xanthophyll content of African marigold (*Tagetes erecta l*) Dept of Floriculture and Landscaping, Coimbatore	0.072
422.	Bio-efficacy and residues of acetamiprid 20% SP in cotton, Dept. of Agrl. Entomology, Coimbatore	1.403
423.	Maximising the productivity and quality of tissue culture banana through fertigation, WTC, Coimbatore	0.526
424.	Evaluation of ril-010/ f125sc and ril-011/ f150sc against powdery and downy mildew of grapes, Dept of Plant Pathology, Coimbatore	1.200
425.	Introduction, evaluation and distribution of plant material of grape variety suitable for export, Dept of Fruit Crops, Coimbatore	0.960
426.	Development activities of WTC, with utilisation of unspent balance grant Rs.4.16 lakhs, WTC, Coimbatore	1.300
427.	Bio-efficacy, phytotoxity and residues of teracona zole 4% ME and tetracona zble 10% EC against powdery mildew on grapes, Dept. of Plant Pathology, Coimbatore	1.495
428.	DNA fingerprinting of cotton genotypes, Dept of Plant Molecular Biology and Bio-tech., Coimbatore	2.268
429.	Evaluation of bioefficacy and phtotoxicity of new herbicide in 5878 wg for paddy, Dept. of Agronomy, Coimbatore	1.376
430.	Evaluation of bioefficacy and residues of FMC pesticides in field crops, Dept. of Agrl. Entomology, TNAU, Coimbatore	1.400
431.	Estimation of terminal residues of Thiobencasb 50EC in transplanted paddy, Dept. of Agronomy, TNAU, Coimbatore	1.636
432.	Introduction of sugarbeet cultivation with suitable varieties in Tamilnadu, Dept. of Agronomy, TNAU, Coimbatore	3.446
433.	Increasing the water and fertilizer use efficiency through porus pipe irrigation and fertigation for managing water demand in Tamil Nadu, WTC, Coimbatore	1.358
434.	Evaluation of dolmite, calcined dolomite, fused Ca, Mg, phosphate mg. Sulphate as source management and as soil conditions, HRS, Ooty	1.670

OTHER AGENCIES – FOREIGN AGENCIES

435.	Cloning of cry genes from new bt strains and transformation of rice with BT genes	1.323

436.	Scheme on principal pod boring pest of tropical legume crops etc. economic importance taxonomy, natural enemies and control (National Professor)	0.164
437.	Development of molecular markers for insect and drought resistance and production of transgenic in rice	6.000
438.	Genetic improvement of rice for water-limited environment, identification of molecular markers and quantitative trait loci and marker	1.000
439.	Management responses to seasonal climate forecast in cropping systems of South Asia's semi arid tropics, Dept. of Agrl. Meteorology	1.669
440.	Plant research Int. Netherlands, studies on management of rice root environment, AC&RI. Killikulam	0.100
441.	On farm trials on efficient use of fertilizer phosphate, Dept. of Agrl Entomology, TNAU. Coimbatore	0.390
442.	IRRI, Philippines, mega project on reaching towards optional productivity in intensive irrigated rice system-III Phase 2001-04-Aduthurai Centre	0.190
443.	IRRI, Philippines, mega project on reaching towards optional productivity in intensive irrigated rice system-III Phase 2001-04 Thanjavur subcentre	0.180
444.	Transfering water out of agriculture equity, landscape and livelihood consequences in Southasis WTC, Coimbatore	2.148
445.	Morphogenetic assay of landraces, breeding populations & introgression lines for genetic enhancement of drought tolerance in rice, Dept. of Rice, CPBG, Coimbatore	14.373
446.	Evaluation of ir64 xazuana doubled haploid (DH) line & ir64 near isogenic under water stress, CPMB, Coimbatore	0.956
447.	Social and economic implications of drought and farmers coping strategies in rainfed rice (*Orya sativa l.*) Ecosystem of Tamil Nadu, CARDS, Coimbatore	2.819
448.	Consolidation of food security in South India, Dept. of Agrl. Processing Coimbatore	35.000
449.	Improved sustainability of small holder periurban vegetable production in South Asia, Dept. of Agrl. Entomology, Coimbatore.	16.960
450.	Development of shoot and fruit borer resistant BT. transgenic brinjal, CPMB, Coimbatore	3.859

451.	Augmenting groundwater resources by artificial recharge (Agrar), WTC, Coimbatore	3.859
452.	Developing drought-tolerant varieties of rice using genetic res and participatory plant breeding techniques, CPMB, Coimbatore	2.700
453.	Developing drought- tolerant varieties of rice using genetic res. and participatory Plant Breeding Techniques, Dept. of PB&G, Madurai (Sub Centre)	13.662
454.	Developing drought- tolerant varieties of rice using genetic res. and participatory Plant Breeding Techniques, ARS, Paramakudi (Sub centre)	3.829
455.	Developing drought tolerant varieties rice using genetic research and participatory, Plant Breeding Genetics (Sub-centre), CSRC, Ramanathapuram	9.781
456.	Studies on Potassium Nutrition of Rice, Dept. of SS&AC, TNAU, Coimbatore	2.594
457.	Studies on rice rhizospere chemistry under selected integrated crop management practices in noyyal clay soil series of Tamil Nadu, Dept. of SS&AC, Coimbatore	3.475
458.	Studies on the Potash fertilizer use efficiency in papaya (Carica papaya) Dept. of Fruit Crops, Coimbatore	2.857
459.	Water resources, liveli hood, security and state holders initiative in Bhavani River Basin, WTC, Coimbatore	0.325
460	Economic inquiry into collective action and household behaviour in micro watersheds, WTC, Coimbatore	2.350
461.	Development of fruit and shoot borer resistant eggplant, Dept. of Plant Molecular Biology and Biotech, Coimbatore	7.122
462.	Survey on community resource management : Panel study in Tami Nadu, India, WTC, Coimbatore	4.258
463.	TNAU-grips (Japan) joint project on dynamics of Agricultural Development in Tamil Nadu, India, Dept. of Agrl. Economics, TNAU, Coimbatore	9.425
464.	Local governance and Rural Development in Tamil Nadu, Dept. of ARM, TNAU, Coimbatore	6.515
465.	Evaluation of the systems of rice crop management for sustainable rice farming in the Cauvery Delta Zone, TRRI, Aduthurai	1.586

466.	Multi environment testing of rice lines for drought tolerance, CPMB, Coimbatore	0.629
467.	Building university capacity to improve fruit and vegetable supply chain development and management in India, Dean, HC&RI, Coimbatore	6.382

VENTURE CAPITAL SCHEMES

468.	Production of Coconut Tonic, Dept. of Crop Physiology, Coimbatore	0.500
469.	Mass production of different plant growth promoting Psudomonas formulation at Dept. of Plant Pathology, Coimbatore	1.200
470.	Production for trutyfully labelled annual moringa seeds, Periyakulam	2.000
471.	Hybrid rice seed production of ADTRH1 and CORH2 rice hybrids, Dept. of Rice, Coimbatore	2.600
472.	Production of sufficient and nutritious forages for University dairy farm, Dept. of Forage Crops, Coimbatore	1.000
473.	Production of quality nucleus, breeders and truthfully labeled seals/ seed materials of forage crops, Dept. of Forage Crops, Coimbatore	2.000
474.	Mass production of bio-control agents viz. *Trichoderma viride* and *Pseudomonas Fluorescans* at Yercaud	1.350
475.	Mass production of horticultural crops planting materials at Yercaud	4.250
476.	Strengthening commercial horticultural training programme including consultancy and food product preparation of to urban Public NGO's Govt and Private Institute and Corporate at Chennai.	1.000
477.	Production of sapota and anola grafts at Periyakulam	2.000
478.	Use of earthworm as dispersal agents for beneficial microorganism at Dept. of Envi. Sci., Coimbatore	2.000
479.	Mass production of earthworm vermicompost and vermi wastes and vam at Yercaud	1.600
480.	Mass production of bio-inoculants at Paiyur	1.040
481.	Mass production of ornamental and medicinal plants for commercial outlet, Dept. of Floriculture, Coimbatore	3.450

482.	Production of elite plants and quality seeds of Horticultural Crops at Palur	2.000
483.	Production of truthfully labeled seeds of rice and pulses at Palur	3.000
484.	Large scale production of high quality grants in fruit crops, KVK, Sandhiyur	1.000
485.	Hybrid rice seed production of ADTRH1 and CORH2 rice hybrid at Bhavanisagar	2.100
486.	Strengthening of analytical and advisory unit at dept of Envi. Sci., Coimbatore	2.000
487.	Clonal propagation of BSRI Amla Emblica officinals @ Bhavanisagar	2.100
488.	Augument the production of quality planting materials in selected fruit crops, Dept. of Fruit Crops, Coimbatore	1.000
489.	Establishment of technology transfer training programme, Dept. of Fruit Crops, Coimbatore	0.250
490.	Multiplication of fruit crops and seed production of vegetable crops, Dept. of Horticulture, Madurai	3.550
491.	Hybrid seed production of ADTRH1 and CORH2 rice hybrid, Aduthurai	1.590
492.	Hybrid and varietals seed production in millets and pulses, Dept. of Millets, Coimbatore	1.000
493.	Soil testing and technology advisory unit centre, Dept. of SS&AC, Coimbatore	1.034
494.	Production of bio-control agents viz. Pseudomonus Flurosense and *Trichoderma viride* at Thadiyankudisai	0.990
495.	Establishment of horticultural training and consultancy cell, Dean, HC&RI, Coimbatore	1.350
496.	Production of TNAU coconut tonic for North Western Zone at KVK Sandhiyur	0.475
497.	Seed production of rice pulses, oilseeds, vegetables, flowering ornamentals at Tirur	0.500
498.	Mass multiplication of elite coconut varieties, Dept. of Spices and Plantation Crops, Coimbatore	3.380
499.	Mushroom cultivation training and inputs supply, Dept. of Plant Pathology, Coimbatore	1.952

500.	Production of elite planting materials of vanilla, planifolia, andrews, Thadiyankudisai	0.960
501.	Sale of toxicological data mass production of *Trichoderma viride*, Dept. of Plant Pathology, Coimbatore	3.000
502.	Production of rice ADT43, ADT39 and IR20 seed (TFL) production through system of rice intensification, Bhavanisagar	0.905
503.	Production and supply of seedlings of *Jatropha curcus* and other tree seedlings, Mettupalayam	0.950
504.	Breeder seed production in cowpea blackgram and paddy at Melalaththur	0.622
505.	Production of spawn and mushroom of *pleurotus spp* Dept. of Plant Pathology, Madurai	0.600
506.	Multiplication and distribution of elite fruit seedlings for dryland in Pdukkottai, Vamban	1.360
507.	Production and distribution of coconut seedlings, fruits and ornamental plants-TFL seeds of paddy and vegetables, Pattukottai	1.500
508.	Breeder seed production in sugarcane CO86032, Melalathur	1.010
509.	Mushroom spawn production at SRS, Melalaththur	0.900
510.	Production and quality of truthful seed in blackgram and greengram, Vamban	1.392
511.	Improvement of Examination processing systems, Controller of Examination, Coimbatore	0.085
512.	Production of breeder seeds in MDU5 rice, Dept. of Plant Breeding and Genetics, Madurai	0.180
513.	Production of elite propagation materials of temperate and essential oils, Kodaikanal	0.900
514.	Production of TFL seeds in promising rice varities, Dept. of Plant Breeding and Genetics, Madurai	0.368
515.	Production of bio inoculants and their quality control, Dept. of Agrl. Microbiology, Madurai	0.300
516.	Production of truthfully labeled tomato seeds variety PKM1, Periyakulam	1.100

517.	Mass production of vermi compost through economic and efficient organic recycling, Paiyur	0.528
518.	Seed production of cotton SVPR2 and SVPR3 and rice ADT43 ABD ADT16 varieties and seed production of cotton varieties through buyback arrangements, Srivilliputhur	3.732
519.	Production and distribution of quality coconut seedlings, Veppankulam	1.500
520.	Production of truthful label seed production in chillies bhendi and clusterbeen, Vaigaidam	1.700
521.	Digital video production on agricultural in compact disk, DEE, Coimbatore	0.050
522.	Development of human research on forestry through training and extension, Mettupalayam	0.150
523.	Production of CO2, CO3 cassava seed materials, Yethapur	0.160
524.	Production of compost through vermi technology, Dept of SS&AC, Madurai	0.250
525.	Production of clonal planting materials of black pepper, tree spices and cashew, Pechiparai	1.032
526	Production of commercial formulation of bio-control agents and mushroom spawn, Aduthurai	1.810
527.	Strengthening infrastructural facilities and updating the botanical garden, Dept of Floriculture, Coimbatore	1.400
528.	Production and distribution of TNAU coconut tonic, Veppankulam	0.640
529.	Breeder / TFL seed production in rice and vegetables, Bhavanisagar	2.000
530.	Production truthful seeds of rice varieties grown in dharmapuri district by conduct farming, Paiyur	4.000
531.	TFL seed production in chillies, Kovilpatti	0.510
532.	Food processing business incubator, Dept of Agrl. Processing, Coimbatore	2.000
533.	Training and consultancy on remote sensing and GIS applications at SS&AC, Coimbatore	0.810
534.	Production and distribution of coconut seedlings at CRS, Aliyarnagar	3.230

535.	Scientific production of broiler meat and pork at Dept. of Animal Husbandry, Coimbatore	1.200
536.	Production of ornamental plants and grants of fruit crops, CRS, Aliyarnagar	1.500
537.	Production of bio-fertilizers for cauvery delta zone, TRRI, Aduthurai	0.330
538.	Establishment of telli cherry breeding goat unit under dry land farming at Dean, AEC&RI, Kumulur	0.784
539.	Mass production of biofertilizer, biocontrol agents button mushroom compost and spawn production at HRS, Vijayanagaram	1.000
540.	Production of foundation and certified seed in rice at AC&RI, Killikulam	1.500
541.	Production and sale of vermi compost and earth worm at AC&RI, Killikulam	1.000
542.	Establishment of an Instt. for offering diploma course in agrl. at ORS, Tindivanam	2.000
543.	Commercial production of improved and quality seeds in APK sorghum ICMV221 pearl millets and APK1 and VB1 (BG) blackgram at RRS, Aruppukottai	0.400
544.	Mass production of spawn and biocontrol agents at RRS, Aruppukottai	0.500
545.	Commercial production of improved and quality seeds in redgram, greengram fodder cholam and senna at RRS, Aruppukottai	0.400
546.	Production of TNAU coconut tonic at AC&RI, Killikulam	0.750
547.	Sale of eco-friendly disposable paper cups to the Institutions / Research Stations at Dept. of Envi. Sci., Coimbatore	0.300
548.	Mass production of mushroom spawn at ARS, Kovilpatti	0.370
549.	Production of seeds of sugarcane varieties (Sugarcane setts) at SRS, Sirugamani	0.500
550.	Furnishing new block of WTC, TNAU, Coimbatore at PRO, TNAU, Coimbatore	1.000
551.	Commercial production of bio control agents, SRS, Cuddalore	1.070

552.	Production of vermi compost by utilising farm wastes, RRS, Aruppukottai	Pollen Vol. 23
553.	Production of bed infestant against silkworm diseases, Coimbatore	1.000
554.	Production of Bio fertilizers for fruit crops	1.300
555.	Commercial production of Honey, Pechiparai	1.100
556.	Production of Trichoderma and Pseudomonas, Bhavanisagar	1.000
557.	Production of vermicompost, Kovilpatti	0.900
558.	Production of Pseudomonas and Trichoderma, Tindivanam	0.500
559.	Production of breeder setts in sugarcane, Cuddalore	1.300
560.	Consulation and training in food processing, Madurai	0.500
561.	Production of sugarcane setts, Killikulam	0.560

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APPENDIX - III

CENTRE FOR PLANT BREEDING AND GENETICS

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