

**THIRTY THIRD
ANNUAL REPORT
(2003 - 2004)**



Compiled by

Dr. D.VEERARAGAVATHATHAM

Dr. P.SUBRAMANIAN

Mr. B.PONNUSWAMY

Dr. C.KARTHIKEYAN

Dr. M.MOHAMMED YASSIN

**DIRECTORATE OF PLANNING AND MONITORING
TAMIL NADU AGRICULTURAL UNIVERSITY
COIMBATORE – 641 003**

**THIRTY THIRD
ANNUAL REPORT
(2003 - 2004)**



ANNUAL REPORT COMMITTEE

Chairman

Dr. D.VEERARAGAVATHATHAM
Director of Planning and Monitoring

Members

Dr. S.RAMANATHAN
Director of Research

Dr. G.DORAISWAMY
Director, Extension Education

Dr. N.RAVEENDRAN
*Director, Centre for Agricultural Rural
Development Studies*

Dr. K.PALANISAMI
Director, Water Technology Centre

Dr. T.MARIMUTHU
Director, Centre for Plant Protection Studies

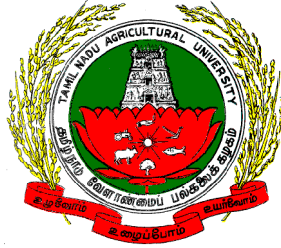
Dr. V.MURUGAPPAN
Director, Soil and Crop Management Studies

Dr. V.ALAGESAN
Director of Publications

Dr. E.VADIVEL
Dean, Horticultural College and Research Institute

**TAMIL NADU AGRICULTURAL UNIVERSITY
COIMBATORE – 641 003**

THIRTY THIRD
ANNUAL REPORT
(2003- 2004)



APRIL 2003 to MARCH 2004

DIRECTORATE OF PLANNING AND MONITORING
TAMIL NADU AGRICULTURAL UNIVERSITY
COIMBATORE – 641 003

CONTENTS

	Page No.
1. Introduction	1
2. Administration	5
3. Education	34
4. Research	58
5. Extension Education	111
6. Directorate of Planning and Monitoring	116

APPENDICES

- i. Important Civil Works Completed
- ii. List of University Research Schemes
- iii. List of Research papers published



PREFACE



Dr.D.VEERARAGAVATHATHAM, M.Sc.,(Ag.), Ph.D.,
Director of Planning and Monitoring

Tamil Nadu is endowed with rich biodiversity that resulted in the identification of seven agro-climatic zones in the state. The varied soil types and distribution of North East and South West monsoons provides salubrious climate for successful crop raising and livestock rearing.

The agricultural scenario in Tamil Nadu has changed fast but with new problems and challenges. To be more specific, the yield levels for major crops are already plateauing, water resources have become more scarce, the gross cropped and irrigated areas are marginally decelerating and the dryland agriculture has remained stagnant with the exception of few successes.

Tamil Nadu Agricultural University strives hard to succeed in its mission of imparting agricultural education aimed at building adequate manpower required for undertaking quality research, training and dissemination of technology which are critical for ensuring food security and commercialisation of agriculture in order to help the farming community in improving its standard of living.

Preparation and publication of Annual Report is a recurring feature with a view to inform and enlighten the stake holders about the various scientific activities carried out by the Tamil Nadu Agricultural University.

In bringing out this volume, the continued encouragement and support extended by the Vice-Chancellor is gratefully acknowledged. The relentless support and encouragement provided by the Deans, Directors and Heads of Departments and Research Stations by providing the needed information in the required forms are wholeheartedly acknowledged. The useful suggestions given by the members of the Annual Report committee are also acknowledged with heartfelt thanks.

Contd...

It is my bounden duty to place on record the financial support extended by the ICAR, State Government, Government of India, International Agencies and private agencies.

The concerted efforts putforth by the staff members of the Directorate of Planning and Monitoring, right from the beginning of compiling, editing and giving final shape to the report are acknowledged with utmost sincerity.

Once again, I thank all the stake holders for their unstinted and continued support rendered in the pursuit of excellence in academic, research and extension programmes of this noble institution.

Tamil Nadu Agrl . University
Coimbatore-641 003

(D.VEERARAGAVATHATHAM)
Director of Planning and Monitoring

Dr.C.RAMASAMY



Chancellor

FOREWORD

Vice-



The achievements made in Indian agriculture sector is quite remarkable. The days of 'ship to mouth' have become a thing of the past and now we are in a position to export our agricultural produce to various countries apart from meeting our own requirements. This is not just an achievement. This could be made possible because of by the untiring efforts made by the Agricultural scientists working in Indian Council of Agricultural Research and in State Agricultural Universities. The dedicated efforts in evolving new hybrid crop varieties, developing new farming technologies and designing cost effective farm implements helped to a great extent in surplus production of food grains which ultimately resulted in the betterment of the economic condition of the farming community of our country.

It is to be noted that we should not rest on the laurels of achieving self sufficiency in food front. The agriculture sector in our country is always under stress and strain. On the one hand the land area under cultivation is dwindling day by day due to urbanization and industrialization and on the other hand natural factors like monsoon failure, drought and pests and diseases affect the agricultural production. In this context, it is the primary duty of our scientists to strive and develop appropriate strategies to make agriculture not only sustainable in order to keep the tempo of increase in agricultural productions to meet the food requirement of the exploding population but also a profitable venture so that the farmers are motivated to adopt the latest techniques.

Now, from being a way of life to millions of people in rural India, agriculture has become a commercial venture and more and more farmers have turned out to be successful entrepreneurs. The role of 'agricultural education' in converting agriculture into a profitable preposition is worth mentioning. The knowledge on various aspects of agriculture, the technologies required for

providing the necessary skills to apply the knowledge are the sine qua non for agricultural development. The university is engaged in providing the skilled manpower to meet the needs of the farming community. Changes and modification have been periodically made in the curricula and syllabi of both undergraduate and post graduate degree programmes to enable our graduates to face the challenges and solve the problems in agriculture and allied sectors.

All our efforts will go waste, unless the new crop varieties, new farming technologies and farm implements reach the farmers. It is the responsibility of the extension personnel of this university to create the required awareness among the farmers about the output of our research efforts through mass media like television, radio, news papers and farm journals. They also help farmers adopt the technologies by providing them trainings, conducting field trials, Farmers Days, exhibitions etc.

In this Annual Report for 2003-2004, a brief account of the efforts of our scientists in agricultural education, research and extension activities is provided and I hope those involved in any aspect of agriculture will definitely benefit by going through this report.

I congratulate Dr.D.Veeraragavathatham, Director, Planning and Monitoring the scientists and other staff members of the Directorate for their sincere effort in collecting and compiling the data and bringing out the report in time inspite of various constraints.

I hope this document will help all the stake holders to understand the contribution of the University in the agriculture development of this country in general and our state in particular.

Tamil Nadu Agrl . University
Coimbatore-641 003

(C.RAMASAMY)
VICE-CHANCELLOR