SCIENTIFIC CULTIVATION METHODS

AND

IT S EFFECT ON COCONUT YIELD

SCIENTIFIC CULTIVATION METHODS AND ITS EFFECT ON YIELD OF COCONUT

The report submitted to the Department of Social Sciences in partial fulfillment of the requirements of BA (Special) Social Sciences specialized in Statistics.

1998/99

By

M.Z.F. Fazna

Registration Number : 98/SL/ 070

Index Number : EA 712

Department of Social Sciences

Faculty of Social Sciences & Languages

Sabaragamuwa University of Sri Lanka

Belihuloya 70140

SCIENTIFIC CULTIVATION METHODS AND IT S EFFECT ON YIELD OF COCONUT

1998/99

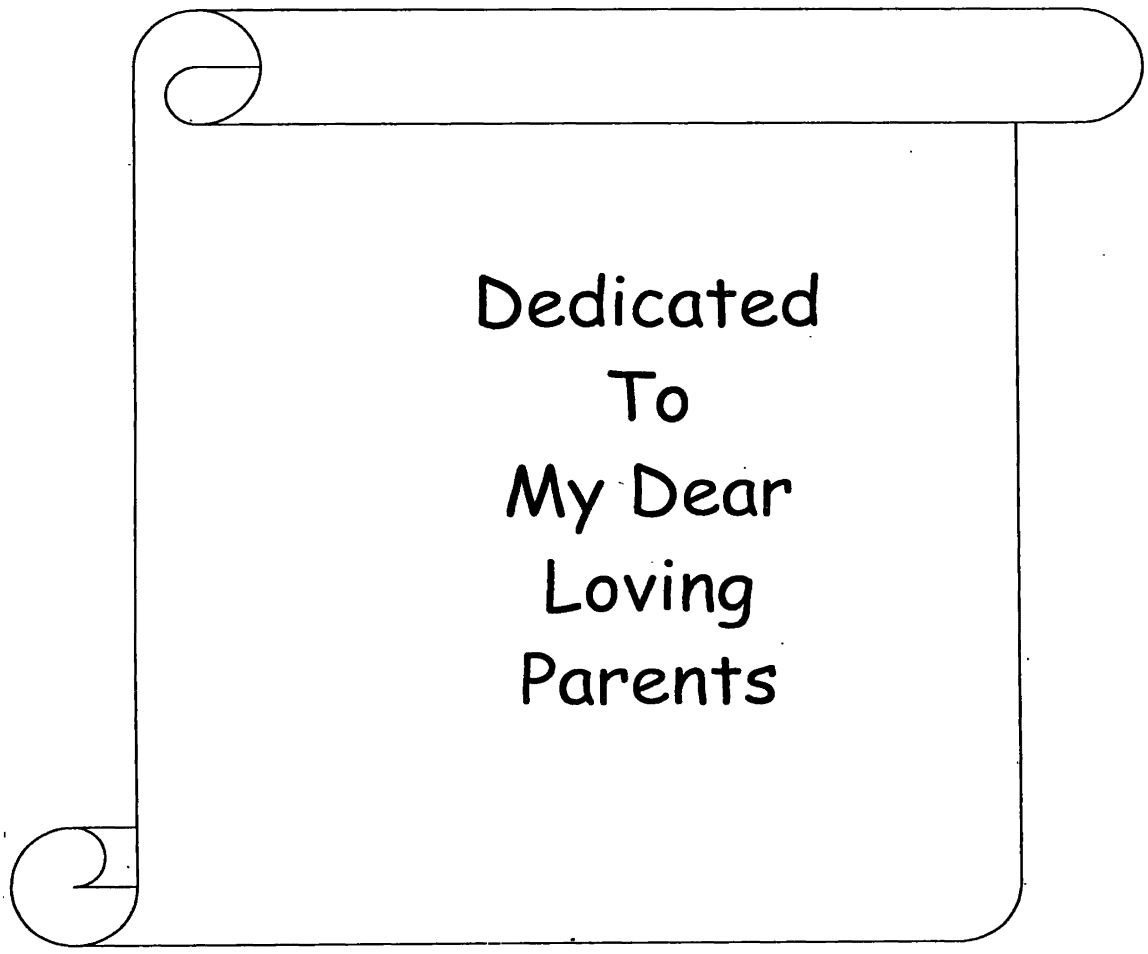
This is to certify that this report or part of it has not been submitted to any other institution and I have given due references to all published Materials used in this report.

Student's signature :- .....
Date :- .....

This is to certify that this report is submitted in partial fulfillment of BA Social Sciences (Special) Degree Program.

Signature of Head :- .....
Date :- .....

Department of Social Sciences


Dedicated
To
My Dear
Loving
Parents

ACKNOWLEDGEMENT

It is my obligation to acknowledge the wisdom and counsel of generous people who have helped me to complete this project report.

My special thank goes to professor Rajiwa Wijesinghe, Dean Faculty of social sciences and languages, and Mr. H.M.S. Priyanath, Head of the department of social sciences of the Sabaragamuwa University for providing instruction and making the necessary arrangement for this dissertation.

I would like to specially thank to my supervisor Mr. . W.N.N.K. Perera to give initial guidance in the preparation of this dissertation and for giving courage to finish this project.

I wish to convey my thank to Dr. Sarath Peries, "The Coconut Research Institute" for giving information and data related to my objectives.

My thank goes to the staff of "Coconut Cultivation Board" for giving me their guidance.

I express my sincere thank to my parents for encourage to finish this project report efficiently.

I am grateful to Mr. M.A. Jabeer for helping me to get typed this report..

I am indebted to thank all those who helped me to complete this project report giving their suggestion and guidance.

CONTENTS

Page No:

- Dedication iv
- Acknowledgement v
- Content vi
- List of tables x
- List of figures viii

- Chapter -1 The Coconut Sector In Sri Lanka 2
  - 1.1 Background 2
  - 1.2 Introduction 10
  - 1.3 Objectives 19
  - 1.4 Chapter Organization 19

- Chapter -2 Conceptual Framework And Methodologies 22
  - 2.1 Calculations and Changes 23
  - 2.2 Data Presentation Methods 23
  - 2.3 Measuring of Central Tendency 27
  - 2.4 Measures of Dispersion, Skewness & Kurtosis 30
  - 2.5 Correlation 33
  - 2.6 Test of Significance of the Difference Between Two Sample Means 34
  - 2.7 Analysis of Variance (ANOVA) 36

- **Chapter -3 Descriptive Analysis And Data Presentation** 40
  - **3.1 General Information of Land** 41
  - **3.2 Information on Coconut Plant** 42
  - **3.3 Moisture Conservation Practices (MCP)** 44
  - **3.4 Other Factors** 49

- **Chapter- 4 Advanced Statistical Analysis And Interpretations** 55
  - **4.1 Testing the assumptions Related to the Advanced Statistical Analysis** 55
  - **4.2 Determine the Scientific Cultivation Methods Increase the Coconut Yield** 60
  - **4.3 Determine the other Factors Effects on the Yield of Coconut** 63

- **Chapter -5 Conclusion And General Discussion** 69
  - **5.1 General Discussion** 70
  - **5.2 Conclusion** 71

- **Appendix** x
- **List of References** xiii