CONTENTS

Preface

Contents

List of Tables

Chapter I : Introduction

1.1 The Problem 1 - 2
1.2 Objectives and Hypotheses 2 - 3
1.3 Scope and Limitations 3 - 4
1.4 Plan of the Study 4 - 5

Chapter II : Area of the Study 6 - 19

2.1 Location, Soils and Climate 6 - 9
2.2 Land Utilization and Irrigation 9 - 15
2.3 Main Crops 15 - 19

Chapter III : Theoretical Framework: The Process of Agricultural Modernisation 20 - 44

3.1 The Role of Agriculture 20 - 22
3.2 Phases of Agricultural Modernisation 23 - 27
3.3 Modernisation Requirements 27 - 35
3.4 Survey of Literature 36 - 44
Chapter IV: Data and Methodology

4.1 Selection of Blocks 45 - 46
4.2 Farm Classification 46 - 48
4.3 Data Collection and Sampling 48 - 50
4.4 Methods and Specification of Variables 50 - 60

Chapter V: Structure and Organisation of Selected Farms: The Impact of Modernisation

5.1 Land Use Pattern and Farm Size 62 - 69
5.2 Cropping Pattern and Farm Size 69 - 72
5.3 Input Structure — Selected Farms 72 - 80
5.3.1 Mechanical Components of NAT 73 - 76
5.3.2 Biological - Chemical Component of NAT 76 - 80
5.4 Non - Economic Factors 80 - 87
5.5 Distribution of Agricultural Machinery 88 - 94
5.6 Yield Pattern 94 - 98

Chapter VI: Production Function Analysis 99 - 131

6.1 Analysis of Crops by Farm Category 100 - 107
6.2 Analysis of Crops by Farm Size 107 - 113
6.3 Analysis of Farms by Castes 114 - 123
6.4 Analysis of Farms by Categories and Educational Levels 124 - 133