

**STUDY ON PRODUCTION AND MARKETING OF
VEGETABLES IN GALEWELA DS DIVISION, MATALE
DISTRICT**



BY

M. H MADHUWANTHI DE SILVA



FAG632



Library,
Eastern University, Sri Lanka

FACULTY OF AGRICULTURE

EASTERN UNIVERSITY

SRI LANKA

JUNE, 2019

ABSTRACT

The study was carried out to determine production and marketing of vegetables in Galewela DS division, Matale district, mainly based on primary data obtained from a sample survey in twelve GN division. The random sampling method was used to select a sample of 150 farmers and data were collected through a pretested questionnaire. Also secondary data were used from various sources. Data were analyzed using SPSS software and descriptive statistics, frequencies, one way ANOVA test and linear regression. About 53% of farmers had owned land and 67.35% of farmers had used low land for vegetable farming. Brinjal, big onions, capsicum and okra were popular vegetable crops in the area during *Yala* season. Most of them had bought seeds from ASC and used their own seeds. Most of labors was used for harvesting. Middleman, wholesaler, village traders were major marketing outlets. Most of the farmers had obtained high yield from big onions. Quantity of vegetables sold and prices varied between GN divisions. Most of farmers (70%) had used loans for investment. Majority of farmers (52%) had not obtained crop insurance but had contacts with extension services. It was found that severe pest and disease attack, no stable price at the market, high cost of agrochemicals, low price of vegetables, post-harvest losses were major problems faced by farmers. Amount of credit had an impact on net profits of vegetables. There was a significant difference in production of big onions and capsicum among GN divisions, while there were significant differences in net profit of brinjal, big onions, capsicum and okra among GN divisions. And also there was a significant difference in amount of credit between GN divisions.

Key words: Vegetables, Production, Marketing, Constraints, Matale

TABLE OF CONTENT

ABSTRACT	I
ACKNOWLEDGEMENTS.....	II
TABLE OF CONTENTS.....	III
LIST OF TABLES	IX
LIST OF FIGURES	XI
ABBREVIATIONS	XII
CHAPTER 1	1
INTRODUCTION.....	1
1.1 Background	1
1.2 Vegetables Production in Matale District	2
1.3 Research Problem	4
1.4 Hypothesis of Study	4
1.5 Objectives of Study	5
1.6 Limitation of Study	5

CHAPTER 2	6
REVIEW OF LITERATURE	6
2.1 Vegetable Production in Sri Lanka	6
2.2 Importance of Vegetable	6
2.3 Consumption of Vegetables	8
2.4 Exports of Vegetables	9
2.5 Imports of Vegetables	10
2.6 Prices of Vegetables	10
2.7 Research and Development of Vegetables	12
2.8 Input Suppliers	13
2.9 Woman in Vegetable Farming	14
2.10 Marketing of Vegetables	16
2.10.1 Different Categories of Marketing Chain	17
2.10.2 Market Participants	17
2.11 Pre and Post-harvest Practices of Vegetable Product.....	19
2.12 Pesticides Usage	20
2.13 Vegetable Wastage	21
2.14 Constraints and Challenges for Vegetable Production.....	22

CHAPTER 3	23
RESEARCH METHODOLOGY	23
3.1 Study Area	23
3.1.1 Geographical Features	23
3.1.2 Soil & Drainage Pattern	24
3.1.3 Climate	24
3.1.4 Population	24
3.2 Location of Study Area	26
3.3 Selection of Sample	28
3.4 Data Collection	29
3.5 Data Analysis	30
3.5.1 Socio Economic Status Analysis	30
3.5.2 Cultivation and Production	30
3.5.3 Cost of Production Estimation	31
3.5.4 Factors Affecting Vegetable Production	31
3.5.5 Hypothesis Testing	31
CHAPTER 4	32
RESULT AND DISCUSSION.....	32
4.1 Socio Economic Status of the Vegetable Farmer	32

4.2	Land Ownership and Extent of Vegetable Cultivation	33
4.2.1	Land Ownership	33
4.2.2	Extent of Land Used for Vegetable Cultivation	33
4.3	Types of Vegetables	34
4.3.1	Extent of Vegetable Cultivation	34
4.4	Irrigation	35
4.4.1	Irrigation Method Used	35
4.4.2	Extent of Land Irrigated	36
4.5	Labor Use in Vegetable Farming	36
4.6	Input Supply	37
4.6.1	Source of Seeds	37
4.6.2	Source of Agrochemicals	38
4.6.3	Sufficiency of Input	39
4.7	Vegetable Production (<i>Maha / Yala</i> season)	40
4.8	Marketing of Vegetables	41
4.8.1	Marketing Outlets	41
4.8.2	Quantity of Vegetables Sold	44
4.8.3	Farm Gate Price of Vegetables	45
4.9	Credit	47
4.9.1	Credit Use	47

4.9.2 Amount of Outstanding Loan	49
4.10 Crop Insurance	49
4.11 Extension Service	50
4.11.1 Extension Service	50
4.11.2 Training Programs	51
4.12 Transport Facilities	52
4.13 Constraints Faced in Vegetable Cultivation	54
4.14 Cost of Production	55
4.15 Total Income and Net Profit of Vegetables Cultivation (<i>Maha</i> Season and <i>Yala</i> Season)	56
4.16 Factors Affecting Net Profit From Vegetable Farming.....	57
4.17 Result of the Hypothesis Testing.....	58
4.17.1 Hypothesis 1: There is significant difference on production of vegetables ..60	
4.17.2 Hypothesis 2: There is no significant difference in profitability of vegetables cultivated	61
4.17.3 Hypothesis 3: There is no significant differences in amount of credit used for vegetable production	62
CHAPTER 5	63
SUMMARY AND CONCLUSION.....	63

5.1	Summary	63
-----	---------------	----

5.2	Conclusion	66
-----	------------------	----

REFERENCES	68
-------------------------	-----------

ANNEXTURES	74
-------------------------	-----------