NUTRITION KNOWLEDGE OF HOME ECONOMICS TEACHERS
AND SCHOOL-CATERERS IN KENYAN SECONDARY SCHOOLS.

by

Jennifer Wanjiku Khamasi

B.Ed. Home Economics, University of Nairobi, 1984

A THESIS SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF

Master of Education in the Faculty

of

Education

This thesis is accepted.

Janet Stoppard

Dean of Graduate Studies
THE UNIVERSITY OF NEW BRUNSWICK

September, 1992

(c) Jennifer Wanjiku Khamasi, 1992

#### ABSTRACT

The main purpose of this study was to assess the basic nutrition knowledge of Home Economics teachers and school-caterers in Kenyan secondary schools in the Central Province.

Research findings on nutrition and health in Kenya indicate there is a need to intensify nutrition education. About one-half of the Kenyan population is under the age of 20 years, and most of them will pass through the formal education system. The educators in the schools could be the appropriate agents to promote nutrition education through the primary health care approach, and reach the majority of the population in the 90's and beyond. The primary health care approach is preventive in nature and involves enabling individuals to broaden their understanding of their living conditions and to develop skills to solve problems, make decisions, and improve the quality of their lives.

The information required was collected by means of questionnaires and interviews completed by the Home Economics teachers and School-caterers in 39 schools between September and November, 1991. The response rate was 97.9% from the Home Economics teachers and 100% from the school-caterers.

The results show that the basic nutrition knowledge of the majority of the respondents was acceptable. There was

## ACKNOWLEDGEMENTS

A. C. Lowe for her continued support and encouragement during my stay in U.N.B. A debt of gratitude is owed to members of my thesis supervisory committee Dr. A. Hughes and Dr. K. Sullenger for their guidance and patience.

Very special thanks are also extended to the professors and staff of Home Economics Education Department (U.N.B.) for their warmth and support they have ceaselessly accorded me during my stay in Canada. In addition, many thanks go to all those who proof-read the thesis and made helpful comments.

Last but not least, I am indebted to my family;
Khamasi, Khadiala and Njeri for their understanding and
patience, my parents; Mr. & Mrs. Maina Kaniaru for their
great inspiration, and to my late grandmother, Muitheri
Kaniaru whose prayers God has answered.

## DEDICATION

To my family, Khamasi, Khadiala and Njeri.

## TABLE OF CONTENTS

PAGE
ABSTRACT
ACKNOWLEDGEMENT
DEDICATION iii
TABLE OF CONTENTS iv
LIST OF TABLES
CHAPTER
I RATIONALE FOR NUTRITION EDUCATION IN THE KENYAN
EDUCATION SYSTEM
Education in Kenya 5
Statement of the Problem 6
Significance of the Study
Assumptions
Delimitations of the Study 9
Definition of terms 9
II REVIEW OF RELATED LITERATURE
Introduction
Nutritional Status of Children in Kenya 12
General Causes of Malnutrition in Children and
Women in Kenya

raditional Practices	18
Pregnancy Periods	18
Weaning Periods	20
Parasitic Disease	22
Diarrhoeal Illnesses	22
Intestinal Parasites and Anaemia	23
Malaria and Anaemia	24
Poverty	26
Significant Effects of Malnutrition	26
Loss of Productivity	29
Early Childhood Mortality	29
Impaired	29
Decline in Psychomotor	30
Goals of Nutrition	32
Nutrition Knowledge	34
Factors Affecting Nutrition	36
Educational	37
Personal Characteristics	38
III METHODS	40
Introduction	40
Rationale for Chosen Methodology	40
Criteria for Sample Selection	41
Accessibility	41
National Examination	42
Instrument Characteristics	4

Pilot Group	43
Questionnaire	45
Procedure for Data Collection	47
Research Requirements in Kenya	48
Acceptable Nutrition Knowledge Level	49
IV RESULTS AND DISCUSSIONS	50
Data Analysis	50
The Sample	51
Gender	51
Teaching Experience	54
Catering Experience	55
Comfort in Teaching Foods and Nutrition	56
Subjects Taught	57
Levels Taught	58
National Examination	59
Other Job Experience	60
Resources Used in the Classroom	61
Resources Used to Update Nutrition Knowledge	62
Nutrition Knowledge Rating	62
Nutrition Knowledge	64
Teachers' Nutrition Knowledge	65
School-caterers' Nutrition Knowledge	67
believe decerets Mattition Midwicage	07
Respondents' Answers to Questions That Required	
an Explanation to the Response	69

Interviews with Home Economics Teachers and	
School-caterers	
Foods Eaten Once a Month	6
Kenyan Diet	78
Home Economics Teachers' Suggestions	79
Problems Encountered by School-caterers when	
Planning and Buying school food	81
General Comments From the Respondents	81
General Comments From the Home Economics Teachers	84
V SUMMARY, CONCLUSIONS AND	
RECOMMENDATIONS	86
Summary of the Findings	86
Conclusions	92
Recommendations	94
Teacher Education Programs	94
Ministry of Education	96
Implications for Future Research	97
REFERENCES	99
APPENDICES	
I Teacher's Questionnaire	105
II School-Caterer's Questionnaire	115
III Frequency Tables (Teachers)	125
IV Frequency Tables (Caterers)	139
V Correct Responses to Test Items in Part One	
Sections B and C	15

# LIST OF TABLES

	PI	GE
TABL	Æ	
	lades Level of the	
1.		50
	Respondents	
2.	Highest Certificate Level of Home Economics	53
	Teachers	54
3.	Highest Certificate level of School caterers	
4.	Teaching Experience of Home Economics	55
	Teachers	56
5.	Catering Experience	20
6.	Home Economics Teachers' Level of Comfort in	
	Teaching Foods and nutrition	57
7.	Subjects Taught by Home Economics Teachers	58
8.	National Examination Papers Marked by	
	Home Economics Teachers	60
9.	Nutrition Knowledge Rating by Home Economics	
	Teachers	. 63
10.	Nutrition Knowledge Rating by School-caterers	. 64
11.	Frequency Distribution Of nutrition Knowledge	
	Scores For home Economics Teachers	. 66
12.	Frequency Distribution Of nutrition Knowledge	
	Scores For School-caterers	. 68

## LIST OF FIGURES

FIG	URES			 PAGE
1.	Districts of	Kenya	 	 15
2.	Provinces of	Kenya	 	 16
	1. 不可可可容易數 (1.55.00) 1.			

1