

Dedication

**To: *My father & mother asking to
them long life full of faith***

**To: *My brothers & sisters for their
light full future***

To: My wife Thanks for her patient

**To: My Sons& Daughters wishful
future**

**To: *Every one who helped or
supported this research***

Acknowledgement

I would like to express the deep gratitude which I feel for the serious and patient supervision provided to me by Dr. Mohammed Badawi Hussein of the Department of Agricultural Extension and Rural Development, College of Agriculture Studies, University of Sudan. I acknowledge immense debt to him not only for his valuable thought provoking discussion and his careful and advice, but also for his continuous encouragement, support and understanding.

Grateful acknowledge is made to Dr. Elsheifa Ali Marghni, the co-supervisor and Head of Department of Agricultural Extension and Rural Development. My thanks for her help and encouragement.

I would like also to extend my thanks to the local leader in study area who gave me a lot of information that support me in my study. My thanks to the staff of library of the Sudan University for useful information and material they generously supplied to me.

And last but not least, I would like to express my gratitude to the Meidob Community for their Co-operation in spite of hard and remote traveling atmosphere.

Abstract

The main objective of this study was to assess the impact of humanitarian relief / food aid on household food security at Meidob area, North Darfur State.

Field survey was used as the research method in this study, carried at Meidob area, North Darfur State, which suffered from poor rain, drought and Darfur conflict in recent years.

Systematic random sampling procedure was used to select (65) household heads who were assisted by food assistance agencies or humanitarian organizations, and (50) household heads who were not assisted, to determine the impact of food assistance on household food security. Questionnaire was used to collect primary data by direct interviews. The collected data was coded and fed in the computer using Statistical Package for Social Sciences (SPSS).

Data was analyzed by using percentages and Chi- square tests at the level of Significance of (0.05) to find differences between groups, or to assess dependency between independent and dependent variables (receiving food aid, households' income, family size and household head sex) and dependent variables (food quantity, food quality, crop production, livestock development, and increase of employment opportunity for household members).

The main findings of the study were:-

- The majority of household age groups ranged between 31 – 40 years, 50% and 43% respectively.

- High percentage of illiterate group for both assisted and non assisted households (55%&36%).
- Relatively high percentage of households had agriculture and pasturing activities as their important and main economic activity (27.8% and 54.8%).
- 38.5% and 32.3% of assisted households reported that the contribution of relief to productive activities in crop production and animal production was big and medium respectively.
- Most household head problems facing them in animal husbandry were conflicts around water sources (49%).
- Family size, household income and household head sex did not significantly influence the animal production practices for both household head groups, while they influenced significantly the humanitarian assistance received
- Household income, family size, household head sex and humanitarian assistance received did not significantly influence the number of meals / day/household.

Based on study results the following recommendations are suggested:-

- 1- Local Authority & all stake holders are advised to actively promote food security behaviors, and conduct profitable income generating activities for household heads.
- 2- International food aid organizations are advised to provide equitable distribution of food aid for all household populations in the affected area.

3- Federal government& international food aid organizations are advised to focus on nutritionally balanced meals to support household community in the study area.

خلاصة الدراسة

يهدف هذا البحث لمعرفة اثر الاغاثة الانسانية و المساعدات الغذائية التي تقدمها المنظمات على الامن الغذائى للأسرة في منطقة الميذوب بولاية شمال دارفور .

تم استخدام منهج المسح الميداني لاجراء الدراسة علي اسر المنطقة التي تعاني من مشاكل عدة بسبب قلة الامطار ، الجفاف و التصحر و مشاكل النزاعات بدارفور خلال السنوات الاخيرة . و تم اختبار العينة من (65) اسرة من الذين تلقوا المساعدات و (50) اسرة من الذين لم يتلقوا المساعدات و ذلك باستخدام اسلوب العينة العشوائية المنتظمة ، لتحديد مدى تاثير الاغاثة المقدمة على الامن الغذائى للأسرة بالمنطقة و جمعت البيانات عن طريق المقابلة الشخصية و الملاحظة و الاستبيان الذى صمم للحصول على البيانات الاولى و من ثم تفسير و تغذية البيانات في الكمبيوتر و حللت باستخدام برنامج الحزم الاحصائية للعلوم الاجتماعية (SPSS) للحصول على النتائج بتحليل البيانات بطريقة النسب المئوية والتكرارات و استخدام مربع كاي عند مستوى معنوية (0.05) لمعرفة الفروقات المعنوية بين المجموعات المختلفة. وفيما يلى اهم ما توصلت اليه الدراسة من النتائج :-

- غالبية اعمار المبحوثين للمجموعتين (متلقي و غير متلقي المساعدات) ما بين (31 - 40 سنة) و يشكلون 50% و 43.1% على التوالي .
- الامية تشكل نسبة كبيرة في المجموعات المتلقي و غير المتلقي للمساعدات (55% و 36%) .
- نسبة كبيرة من مبحوثي المجموعتين كانوا يمارسون الرعي و الزراعة كانشطة اقتصادية رئيسية 827. % و 54.8% .

- 38.5% من متلقي المساعدات ذكروا ان مساهمة الاغاثة في العمل الانتاجي (الزراعة و الرعي) كانت كبيرة .

اغلب المشاكل التى تواجه السكان في تربية الحيوان او الرعي كانت -
%المصادمات حول مصادر المياه 49

- حجم الاسرة ،نوع رب الاسرة و دخل الاسرة لم تؤثر معنويا في ممارسة رعاية الحيوان للمجموعتين،بينما اثرت معنويا فى الاغاثة المقدمة لاسرالذين تلقوا المساعدات .

- دخل الاسرة، حجم الاسرة،نوع رب الاسرة والاغاثة المقدمة للاسر الذين تلقوا المساعدات لم تؤثر معنويا فى عدد الوجبات التي تتناولها الاسرة في اليوم .

بناءا علي نتائج الدراسة ي قدم الباحث التوصيات التالية :-

1- ننصح السلطات المحلية و جميع المهتمين ترقية اسلوب الامن الغذائي و ذلك بربطها بالانشطة المدرة للدخل لاسر المنطقة .

2- ننصح منظمات العون العالمية التوزيع العادل للغذاء المقدم من منظمات العون بالنسبة لاسر المتأثرين في المنطقة .

3- ننصح الحكومة الفدرالية و منظمات العون الغذائي التركيز علي دعم الاسر بالغذاء المتوازن .

List of content

No	The Title	Page
أ	Dedication	.i
ب	Acknowledgement	.ii
ج	English Abstract	.iii
د	Arabic Abstract	.vi
هـ	List of content	.viii
و	List of content	.xv
	CHAPTER ONE	
1.1	Introduction	1
1.2	Problem statement	4
1.3	Importance of the study	4
1.4	Objectives	4
1.4.1	Specific objectives	5
1.5	Hypotheses	5
1.6	Variables	5
1.7	Definition of terms	6
	CHAPTER TWO LITERATURE REVIEW	

2.1.1	North Darfur	8
2.1.2	The causes of food insecurity	9
2.1.3	History of Humanitarian Action in the world	10
2.1.4	The historical background of humanitarian relief in Meidob area	10
2.1.5	The Development of Humanitarian Action in the 20th Century	12
2.1.6	International Humanitarian Organizations	12
2.1.7	Principles of Food help and Distribution	14
2.1.8	Food for work	17
2.1.9	Cash for Food	19
2.1.10	Livelihood in Meidob area before the Relief	20
2.1.11	Livelihood in Meidob area after relief	21
2.2.1	Household food security: Concepts and definitions	22
2.2.2	Household food security and livelihood	24
2.2.3	Concepts of food security	25
2.2.4	The food security/ livelihood/ economic situation of households	27
2.2.5	Food aid and relief on household food security (Development Strategies):	28
2.2.6	The response of world food programme	32
2.2.7	Enhanced commitments to women to ensure food security: Mother- and- child health program	34
2.2.8	Supplementary feeding with micronutrient fortified foods	34
2.2.9	Food as aid in food security	34
	Chapter three	
	Methodology	
3.1	Background of study Area	36
3.2	Sample and sample selection	39

3.3	procedure followed on Sample Selection	40
3.4	Data Collection instruments	40
3.5	Sources of Data	41
3.6	Method of Data analysis	41
	Chapter four	
	Data Analysis and Discussions	
4.1	Distribution of Household heads by Sex	43
4.2	Distribution of Household heads by Age	44
4.3	Distribution of Household heads by Level of Education	45
4.4	Distribution of Household heads by martial Status	46
4.5	Distribution of House hold heads by Family Size	47
4.6	Distribution of Household heads by Economic Activity in Agriculture	48
4.7	Distribution of Household heads by Economic Activity in Pasturing	49
4.8	Distribution of Household heads by Economic Activity in Petty trade	50
4.9	Distribution of Household heads by Economic Activity in Employment other than Agriculture	51
4.10	Distribution of Household heads by Economic Activity in Handicraft other than Agriculture	52
4.11	Distribution of Household Heads according to Main household Food Source	53
4.12	Distribution of Household Heads for Estimation household Income P/Y	54
4.13	Distribution of House hold Heads according to Food Assistance Received	55
4.14	Distribution of House hold heads according to Items of Humanitarian Assistance	56
4.15	Distribution of House hold heads according to Distribution of	57

	Humanitarian Assistance through household heads	
4.16	Distribution of House hold Heads according to Satisfaction with Assistance	58
4.17	Distribution of House hold Heads according to Effects of Family Size on Humanitarian Assistance	59
4.18	Distribution of House hold heads according to Quantity of Food Offered by food assistance per / Person in Last Month	60
4.19	Distribution of House hold heads according to Satisfaction with Quantity of Food Assistance	61
4.20	Distribution of Household heads according to the Duration that Cash and Kind Savings cover for food	62
4.21	Distribution of Household heads according to Amount of Additional Food Purchased by household	63
4.22	Distribution of Household according to numbers of meals Per / Day	64
4.23	Distribution of Household according to intake of legumes per / Month	65
4.24	Distribution of Household heads according to intake of fruits and Vegetables p / month	66
4.25	Distribution of Household heads according to intake of Cereals per / Month	67
4.26	Distribution of Household heads according to intake of red meat per / Month	68
4.27	Distribution of Household heads according to intake of white meats per /month	69
4.28	Distribution of Households according to intake of milk and milk products per / Month	70
4.29	Distribution of Households according to intake of tea and coffee per / month	71
4.30	Distribution of Respondents according to problems facing in	72

	agriculture practices	
4.31	Distribution of Household heads sheep	73
4.32	Distribution of Household heads goats	74
4.33	Distribution of Household heads camels	75
4.34	Distribution of Household heads cows	76
4.35	Distribution of Household heads donkeys	77
4.36	Distribution of Respondents according to sources of veterinary and health care obtained	78
4.37	Distribution of Respondents according to Processed Animal Products by Rural household heads	79
4.38	Distribution of Respondents According to Main Problems Facing in Animal Husbandry	80
4.39	Distribution of Household Heads according to Contribution of Relief in Productive Practice in Animal Production	81
4.40	Distribution of Household Heads according to Contribution of Relief in Productive Practice in Crop Production	82
4.41	Distribution of Household Heads according to Contribution of Relief in Productive Practice in Crop and Animal Production	83
4.42	Distribution of Household Heads according to Contribution of Relief in Productive Practice in income generating system	83
4.43	Distribution according to sources of Assistance	85
4.44	Chi-square test for Satisfaction with quantity of food assistance by some Dependent Variables	86
4.45	Chi-square test for Number of meals by some Dependent Variables	88
4.46	Chi-square test for number of meals of Legumes / month by	90

	some Dependent variables	
4.47	Chi-square test for number of meals of Fruits and Vegetables / month by some Dependent Variables	92
4.48	Chi-square test for number of meals of Cereals / month by some Dependent Variables	94
4.49	Chi-square test for number of meals of Red meats / month by some Dependent Variables	96
4.50	Chi-square test for number of meals of White meats /month by some Dependent variables	98
4.51	Chi-square test for number of meals of Milk and milk products /month by some Dependent Variables	100
4.52	Chi-square test for number of meals of Tea and Coffee /month by some Dependent Variables	102
4.53	Chi-square test for Processed animal products by Rural household by some Dependent Variables	104
4.54	Chi-square test for Animal production by some Dependent Variables	106
4.55	Chi-square test for Crop production by some Dependent Variables	108
4.56	Chi-square test for Animal and Crop production by some Dependent Variables	110
4.57	Chi-square test for income generation by some Dependent Variables	112
	Chapter five Summary of findings, conclusions and recommendations	
5.1	Summary of findings	114

5-2	Conclusions	118
5-3	Recommendations	119
5-5	references	121
5-6	Appendix	125

List of Tables

No	Title	Page
2 – 1	Integrated food aid on household development	31
3 - 1	Distribution of Sample of the study according to areas	40
4.1	Frequency Distribution and Percentages of House hold heads by Sex	43
4.2	Frequency Distribution and Percentages of Household heads by Age	44
4.3	Frequency Distribution and Percentages of Household heads by Level of Education	45
4.4	Frequency Distribution and Percentages of Household heads by Social Status	46
4.5	Frequency Distribution and Percentages of Household heads by Family Size	47
4.6	Frequency Distribution and Precedents of Household heads by Economic Activity in Agriculture	48
4.7	Frequency Distribution and Percentages of Household heads by Economic Activity in Pasturing	49
4..8	Frequency Distribution and Percentages of Household heads by Economic Activity in Petty trade	50
4.9	Frequency Distribution and Percentages of Household heads by Economic Activity in Employment other than Agriculture	51
4.10	Frequency Distribution and Percentages of Household heads by Economic Activity in Handicraft other than Agriculture	52
4.11	Frequency Distribution and Percentages of Household heads according to Main household Food Source	53
4.12	Frequency Distribution and Percentages of Household heads for Estimation household Income P/Y	54
4.13	Frequency Distribution and Percentages of Household heads according to Food Assistance Received	55

4.14	Frequency Distribution and Percentages of Household heads according to Items of Humanitarian Assistance	56
4.15	Frequency Distribution and Percentages of Household heads according to Distribution of Humanitarian Assistance through household heads	57
4.16	Frequency Distribution and Percentages of House hold heads for Satisfaction with Assistance	58
4.17	Frequency Distribution and Percentages of Household heads in Effects of Family Size on Humanitarian Assistance	59
4.18	Frequency Distribution and Percentages of Household heads according to Quantity of Food Offered by food assistance per / Person in Last Month	60
4.19	Frequency Distribution and Percentage of Household heads Satisfaction with Quantity of Food Assistance	61
4.20	Frequency Distribution and Percentages of Household heads according to the Duration that Cash and Kind Savings cover for food	62
4.21	Frequency Distribution and Percentages of Household heads according to Amount of Additional Food Purchased by household heads	63
4.22	Frequency Distribution and Percentages of Household heads according to Numbers of meals Per / Day	64
4.23	Frequency Distribution and Percentages of Household heads according to Number of legumes intake/meal / Month	65
4.24	Frequency Distribution and Percentages of Household heads according to Number of Fruits and Vegetables intake/m /m	66
4.25	Frequency Distribution and Percentages of Household heads according to Number of Cereals intake/meal / Month	67
4.26	Frequency Distribution and Percentages of Household heads according to Number of Red meat intake/meal / Month	68
4.27	Frequency Distribution and Percentages of Household heads	69

	according to Number of White meats intake/meal /month	
4.28	Frequency Distribution and Percentages of Households according to Numbers of Milk and milk products intake/meal / Month	70
4.29	Frequency Distribution and Percentages of Households according to Number of Tea and coffee intake/meal / month	71
4.30	Frequency Distribution and Percentages of Respondents for their Problems Facing in Agriculture Practices	72
4.31	Frequency Distribution and Percentages of Household heads Sheep	73
4.32	Frequency Distribution and Percentages of Household head's Goats	74
4.33	Frequency Distribution and Percentages of Household head's Camels	75
4.34	Frequency Distribution and Percentages of Household head's Cows	76
4.35	Frequency Distribution and Percentages of Household head's Donkeys	77
4. 36	Frequency Distribution and Percentages of Respondents according to Sources of Veterinary and Health Care Obtained	78
4.37	Frequency Distribution and Percentages of Respondents in Processed Animal Products by Rural household heads	79
4.38	Frequency Distribution and Percentages of Respondents According to Main Problems Facing in Animal Husbandry	80
4.39	Frequency Distribution and Percentages of Household heads for Contribution of Relief for Productive Practice in Animal Production	81
4.40	Frequency Distribution and Percentages of Household heads for Contribution of Relief for Productive Practice in Crop Production	82

4.41	Frequency Distribution and Percentages of Household heads for Contribution of Relief for Productive Practice in Crop and Animal Production	83
4.42	Frequency Distribution and Percentages of Household heads for Contribution of Relief for Productive Practice in income generating system	84
4.43	Frequency Distribution and Percentages of sources of Assistance	85
4.44	Chi-square test for Satisfaction with quantity of food assistance by some Dependent Variables	86
4.45	Chi-square test for Number of meals/day by some Dependent Variables	88
4.46	Chi-square test for number of Legumes intake/meal / month by some Dependent variables	90
4.47	Chi-square test for number of Fruits and Vegetables intake/meal / month by some Dependent Variables	92
4.48	Chi-square test for number of Cereals intake/meal / month by some Dependent Variables	94
4.49	Chi-square test for number of Red meats intake/meal / month by some Dependent Variables	96
4.50	Chi-square test for number of White meats intake/meal /month by some Dependent variables	98
4.51	Chi-square test for number of Milk and milk products intake/meal /month by some Dependent Variables	100
4.52	Chi-square test for number of Tea and Coffee intake/meal /month by some Dependent Variables	102
4.53	Chi-square test for Processed animal products by Rural household by some Dependent Variables	104
4.54	Chi-square test for Animal production by some Dependent Variables	106
4.55	Chi-square test for Animal and Crop production by some	108

	Dependent Variables	
4.56	Chi-square test for Animal and Crop production by some Dependent Variables	110
4.57	Chi-square test for income generation by some Dependent Variables	112