EFFECTS OF THE NAADS PROGRAM ON HOUSEHOLD WELFARE IN NAMASAGALI SUB COUNTY KAMULI DISTRICT

MANGENI PETER

BU/UG/2011/151



A RESEARCH REPORT SUBMITTED IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN NATURAL RESOURCE ECONOMICS OF BUSITEMA UNIVERSITY

JUNE, 2014

DECLARATION

I Mangeni Peter hereby declare that this research report is a result of my independent commitment and has never been submitted in either the same or the different kind to this or any other institution for any academic qualification. Date: 26/06 /2014

MANGENI PETER

APPROVAL

This is to certify that this research report by **Mangeni Peter** has been done with guidance and supervision of:

Signature: Signature:

Date: 26/06/2014

MR SSUUNA JAMES

DEDICATION

I dedicate this report to my parents Mr. Sanya Fred, Madam Nabwire Janet, and Madam Namutebi Susan, my sister Ashely, my brothers Joseph and Sydney, my friends Aja Clare, Bwire Moses, Davis, and Mathias for the love, care and support.

ACKNOWLEDGEMENT

I extend my sincere thanks to my research supervisors, Mr. Kakungulu Moses and Mr. Ssuuna James for the guidance and advice they gave me in the course of my research and writing this report. I would like to acknowledge the love, care and help of my friends Aja Clare, Bwire, Davis and Mathias. I further appreciate the entire staff of Busitema University, most especially the Faculty of Natural Resources and Environmental sciences who gave me the opportunity for field research.

ACRONYMS & ABREVIATIONS

NAADS

National Agricultural Advisory Services

FAO

Food and Agricultural Organization

IFPR1

International Food policy Research Institute

PEAP

Poverty Eradication Action Plan

MAAIF

Ministry of Agriculture Animal Industry and Fisheries

PMA

Plan for Modernization of Agriculture

ICARDA

International Center for Agricultural Research in Dry Areas

NARO

National Agricultural Research Organization

UBOS

Uganda bureau of statistics

APRU

Animal Production Research Unit.

LPRI

Livestock Production Research Institute

NAGRC

National Animal Genetic Research Institute.

ILCA

International Livestock Center for Africa.

ATNESA

Animal Traction Network for Eastern and Southern Africa

CIA

Central Intelligence Agency

URN

Uganda Radio Network

OPVs.

Open Pollinated Varieties

TABLE OF CONTENTS

DEC	LARATION	j
APPROVAL		ii
DED	ICATION	iii
ACK	NOWLEDGEMENT	iv
ACR	ONYMS & ABREVIATIONS	¥
TABLE OF CONTENTS		vi
LIST OF TABLES		ix
LIST OF FIGURES		x
ABS	TRACT	xi
CHAPTER ONE: INTRODUCTION		1
1.1	Background of the study	1
1.2	Problem statement	3
1.3	Objectives of the study	4
1.3.1	General objective	.4
1.3.2	Specific objectives	.4
1.4	Research questions	4
1.5	Significance of the study	4
1.6	Conceptual frame work	5
1.7	Report layout	5
CHAPTER TWO: LITERATURE REVIEW		6
2.1	Introduction	6
2.2	Improved crop varieties	6
2.2	Improved animal hreeds	Ω

2.4	Agricultural advice -	13
2,5	Improved Inputs Use in Uganda	15
СНА	PTER THREE: RESEARCH METHODOLOGY	19
3.1	Introduction	19
3.2	Study area description	19
3,3	Research design	19
3.4	Study population	20
3.5	Sampling procedure	20
3.6	Data sources	20
3.7	Data collection methods and tools	20
3.8	Sample size	21
3.9	Data management and analysis	21
4.0	Ethical considerations	21
4.1	Limitations of the study	21
СНА	PTER FOUR: FINDINGS AND DISCUSSION OF THE STUDY	22
4.1	Introduction	22
4.2	Characteristics of the respondents	22
4.2.1	Gender	22
4.2.2	Age	23
4.2.3	Marital status	24
4.2.4	Education level	25
4.2.5	Time spent in Namasagali Sub County	25
4.2,6	NAADS technologies adopted	26
4.2.7	Welfare status	27
4.2.8	Participation in NAADS activities	28

4.2.9	Opinion of Respondents	28
4,3	Benefits from NAADS	29
4.3.1	Source of Income	30
4.3.2	Crops grown	30
4.3.3	Types of seeds	31
4.3.4	Animals reared	32
4.3.5	Marketing of the produce	32
4.3.6	Household Income	34
4.3.7	Output	35
4.3.8	Challenges faced by the respondents	36
4.3.9	Reasons for the Ineffectiveness of NAADS Programs as given by the respondents	36
4.4	Discussion of the study findings	36
FIVE	: SUMMARY, CONCLUSIONS AND RECOMMENDATIONS	38
5.1	Introduction	38
5.2	Summary of Findings	38
5.3	Conclusions	39
5.4	Recommendations	39
REFERENCES		41

LIST OF TABLES

Table 4.1: Distribution of respondents by Gender	22
Table 4.2: Distribution of respondents by age	23
Table 4.3: Distribution of respondents by marital status	24
Table 4.4: Distribution of respondents by education level	25
Table 4.5: Distribution of respondents by time spent in Namasagali	25
Table 4.6: Distribution of respondents by NAADS technologies adopted	26
Table 4.7: Distribution of respondents by welfare status	27
Table 4.8: Distribution of respondents by participation in NAADS program	28
Table 4.9: Distribution of respondents by opinion on continuity of NAADS program	28
Table 4.10: Distribution of respondents by benefits from NAADS program	29
Table 4.11; Distribution of respondents by sources of income	30
Table 4.12: Distribution of respondents by crops grown	30
Table 4.13: Distribution of respondents by the type of seeds used	31
Table 4.14: Distribution of respondents by animals reared	32
Table 4.15: Distribution of respondents by marketing	32
Table 4.16: Distribution of respondents by marketing technique	33
Table 4.17: Distribution of respondents by income	34
Table 4.18: Distribution of respondents by changes in output	35

LIST OF FIGURES

Figure 1.1: Conceptual framework	5
Figure 4.2: A Bar graph based on gender of respondents	.22
Figure 4.3: A Bar graph based on age of respondents	23
Figure 4.4: A Bar graph based on marital status of respondents	24
Figure 4.5: A Bar graph based on education level of respondents	25
Figure 4.6: A Bar graph based on period of time spent in Namasagali	26
Figure 4.7: A Bar graph based on improvement in welfare	27
Figure 4.8: A Bar graph based on participation in NAADS activities	28
Figure 4.9: A Bar graph based on crops grown	31
Figure 4.10: A Bar graph based on the types of seeds used	31
Figure 4.11: A Bar graph based on animals reared	32
Figure 4.12: A Bar graph based on marketed and non-marketed output	.33
Figure 4.13: A Bar graph based on how marketing is done	34
Figure 4.14: A Bar graph comparing incomes of participants and non-participants	34
Figure 4.15: A Bar graph based on changes in output	35

ABSTRACT

The main objective of the study was to find out the effects of NAADS to household welfare in Namasagali Sub County and 50 respondents were contacted, they included farmers and traders. The data was analyzed using excel. Variables under consideration included improved crop varieties, improved animal breeds and agricultural advice.

The study indicated that 76% of the respondents were involved in NAADS and had adopted the various NAADS technologies and also 75% of them had realized an improvement in welfare.

Generally, NAADS has led to a significant increase in the incomes and improvement in the welfare of households in Namasagali.

CHAPTER ONE: INTRODUCTION

1.1 Background of the study

National Agricultural Advisory Services (NAADS) is a program of the government of Uganda under MAAIF formed under the NAADS Act of June 2001. It is a 25 year public funded private sector contracted extension system that is being implemented in phases. The first phase started in July 2001 and ended in June 2010. Its second phase started in July 2010 and ends in July 2015. The project is currently in phase two and its development goal is to improve the rural livelihood by increasing productivity and profitability in subsistence manner. In phase 1, NAADS interventions were through five components that is advisory and information services to farmers, technology development and linkage with market, quality assurance regulations and technical auditing, private sector institutional development and program management and monitoring (MAAIF, 2000). NAADS was formed with a mandate to develop a demand driven, farmer led agricultural service delivery system targeting the poor subsistence farmers, with emphasis to women, youth and people with disabilities. NAADS is working in pursuit of the national development framework of the poverty eradication agenda which is guided by the Poverty Eradication Action Plan (PEAP).

NAADS overall supervision is vested in the Ministry of Agriculture Animal Industry and Fisheries (MAAIF). The program was officially launched in March 2002. It is one of the seven components under the PMA, the planning framework of the government for the transformation of subsistence agriculture to market oriented for commercial production. NAADS program aims to redress past shortcomings in the provision of the innovative approaches in service delivery. NAADS is the new program in MAAIF created under Plan for the Modernization of Agriculture

REFERENCES

- Benin, S., E. Nkonya, G. Okecho, J. Render, S. Nahdy, S. Mugarura, E. Kato, & Kayobyo, G. (2007). Assessing the impact of National Agricultural Advisory Services (NAADS) in Uganda rural livelihoods. *IFPRI Discussion paper 00724* accessed on 2 March 2014 http://www.ifpri.org/publication/assessing-impact-national-agricultural-advisory-services-NAADS-Uganda-rural-livelihoods.
- Benin, S., E. Nkonya, G. Okecho, J. Randriamamonj, & F. Byekwaso (2011). The impact of Uganda's National Agricultural Advisory Services Program. *Research monograph* Washington DC. IFPRI. Page 5-180.
- Deininger, K., & Okidi, J. (2001). Rural Households Incomes. Productivity, and Nonfarm Enterprises Uganda's Recover. The Role of Farms, Firms, and Government. Fountain Publishers, Kampala, Uganda.
- Dick Sserunkuma (2005). The Adoption and Impact of Improved Maize and Land Management Technologies in Uganda. *Journal of Agricultural and Development Economics*. Vol. 2, No. 1, 2005, pp. 67-84.
- MAAIF & MFPED. (2000). Plan for Modernization of Agriculture. Eradicating Poverty in Uganda. Government Strategy and Operational Framework. Kampala, Uganda.
- MAAIF. (2010). Agriculture for Food and Income Security. Agricultural Sector

 Development Strategy and Investment Plan 2010/11 2014/15. MAAIF, Entebbe,

 Uganda
- Kricher, J. (1997). A Neotropical companion. An introduction to animal, Plants and Ecosystems of the new world tropics. New Jersey; Princeton University Press.
- MFPED. (2010). Background to the Budget 20010/11 Fiscal Year: Strategic Priorities to accelerate Growth and Socio-Economic Transformation for Prosperity.

 Kampala, Uganda: MFPED.
- MAAIF. (2000). National Agricultural Advisory Services Program (NAADS): Master of the Task Force and Joint Donor Groups, Kampala, Uganda.
- Tweheyo Robert & Katushemererwe Fridah (2006). The challenges of policy Implementation in Uganda: the case of NAADS program in Kabale district. Accessed on 24th may 2014 from http://www.nurru.or.ug/pdf/The_challenges_of_policy_implementation_in_Uganda-NAADS.pdf

- World Bank (2002). Extension and Rural Development: A convergence of views on Institutional Approach. IFPRI, Washington DC
- NAADS. (2010). NAADS implementation guidelines. Farmer selection and support for progression from subsistence to commercialization. Kampala accessed on 24th may 2014 from http://api.ning.com/files/rgUCGY18qGtvMT6iQioHU8jSalGMG6as0621*U UdgfrYK9Zov5UdfCG4hN1SuwVL6tSLkPpsBkgWEK0qmAjylmdc3fFfB/Farmersele ctionGuidelinesOctober29thDonors2.pdf
- Okoboi, G., & M. Barungi (2012). Constraints to fertilizer use in Uganda. Insights from Uganda's Census of agricultural 2008/9. *Journal of sustainable development*
- Rwakakamba, M., E. Sanai & K. katungisa (2011). Action research to audit effectiveness of NAADS and proposals to reform. *Progress report of the Uganda National Farmers Federation*.
- UBoS. (2003). Uganda National Household Survey (2002/2003). Report on the social economic Survey
- World Bank (2001). A project appraisal document on a proposed credit (US \$45M) to the republic of Uganda for National Agricultural Advisory Services project, Washington DC
- Geoffrey Okoboi, Annette Kuteesa & Mildred Barungi (2013), The impact of the National Agricultural Advisory Services Program on Household Production and Welfare in Uganda. Africa growth initiative, working paper 7, March 2013
- MAAIF & MFPED. (2000). Eradicating poverty in Uganda. Entebbe; MAAIF; Kampala: MFPED
- NAADS (2010). A report on the beneficiary assessment of NAADS program conducted in Acholi and karamoja sub regions and Moroto districts. Accessed on 20th 05 2014 from http://www.cdrn.or.ug/wp-content/uploads/2013/06/Assessment-Report-on-NAADS-in_Acholi-and-Karamoja-sub-regions-2011.pdf
- Agyemang, K & Nkhonjera (1986). Evaluation of the productivity of cross bred dairy cattle on small holder and government farms in the republic of Malawi. *IECA research report* 12 Addis Ababa, Ethiopia 39Pp
- APRU. (1973). Botswana beef cattle range research program in Botswana. Ministry of Agriculture, Botswana 128Pp

- Department of agriculture (1972), Animal husbandry research 1968-1969, animal report of the department of agriculture, Malawi 67Pp.
- Gryseels, G. & Anderson F. (1983), Research on farm and livestock productivity in central Ethiopian highlands. *ILCA research report 4 Addis Ababa, Ethiopia 52Pp.*
- NAADS, (2001). The NAADS Act. Accessed on 5th may 2013 from http://www.NAADS.or.ug/files/downloads/The%20NAADS%20Act%202001.pdf
- NAADS. (2010). NAADS implementation guidelines, MAAIF Kampala.
- LPRI. (1976). Animal breeding research project progress report. Mpwapwa Tanzania 101Pp Oxfam. (2004). Forum for women in development. Volume 2, page 2-7
- Republic of Uganda (1995). Constitution of the Republic of Uganda.
- Stephen Kasule Baite, Patrick Lubega, Todd Benson, & Julian Nyachwo (2012). Supply of inorganic fertilizers to smallholder farmers in Uganda. *IFPRI discussion paper 01228*.
- Langyintuo, A & Mekuria, M. (2005). Modeling Agricultural Technology Adoption Using the Software stata, cimmyt-alp Training Manual No. 1/2005 (Part Two). International Maize and Wheat Improvement Center, Harare, Zimbabwe.
- Mulugeta & Balayneh (2013). Cross breeding effect on milk productivity of Ethiopian indigenous cattle. Accessed on 10th may 2013 from http://www.scholarlyjournals.com/sjas/archive/2013/Nov/pdf/Hailu.pdf
- Trail. J. C. M & Gregory, K. B. (1981). Sahiwal cattle. An evaluation of their potential to contribute to milk and beef production in Africa. *ILCA monograph 3.Addis Ababa Ethiopia 128Pp*.
- Mwenya, W.N.M. (1992). Some aspects of the performance of Friesian cattle under commercial farming in Zambia. Milk yield and lactation length.
- Mubita, D. M. (1992). Batoka dairy cross breeding ranch and its impacts on the national dairy development. Proceedings of the dairy industry in Zambia. Ministry of Agriculture, food and fisheries, Lusaka Zambia Pp 36-41
- Lubwama, F. B., Kaumbutho, P. G., Pearson, R. A & Simalenga, T. E. (2000). Gender issues in animal traction and rural transport in Uganda. Empowering Farmers with Animal

- Traction. Proceedings of the workshop of ATNESA held on 20-24 September 1999, Mpumulanga, South Africa: 344pp.
- Nkonya, E., Pender, J., Jagger, P., Sserunkuma, D., Kaizzi, C., & Ssali, H. (2004). Strategies for Sustainable Land Management and Poverty Reduction in Uganda. Research Report 133, IF PRI, Washington D.C.
- UBoS, (2010). Uganda National Household Survey (2009/2010). Manual of instruction. Kampala
- Knight, R. L., Parker, J.H., & keep E., (1972). Abstract Bibliography of Fruit Breeding and Genetics to 1956-1969 Rubus and Ribes Farnham royal UK. Common Wealth Agriculture Bureau. *Technical communication* 32:449
- Gautam, M. (2000). Agricultural extension, the Kenya experience: An impact evaluation.

 Washington: World Bank
- Kumar, N., and A. R. Quisumbing (2010). Access, adoption, and diffusion: Understanding the long term impacts of improved vegetable and fish technologies. *Discussion paper 995*. Washington: international food policy Research institute
- Centenary Driciru (2005). Women's participation in NAADS. Case study if Viru sub county

 Arua district accessed on 20th may 2014

 from http://docs.mak.ac.ug/sites/default/files/Driciru_Centenary.pdf
- Uganda Radio Network (2011). NAADS suspends seed distribution in Nakaseke. 4th October 2011 árticle. Accessed on 20th may 2011 from http://ugandaradionetwork.com/a/story.php?s=37288
- MLD (Ministry of livestock development). (1990). Animal production branch Annual report.

 Nairobi Kenya. 201Pp