FACTORS INFLUENCING THE IMPLEMENTATION OF THE NATIONAL AGRICULTURAL ADVISORY SERVICES PROGRAM; A CASE STUDY OF PALLISA SUB-COUNTY

BY

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DECLARATION

I, Akwaro Rose, declare that this research report has not been previously submitted to the University or any other Higher Institution of Learning for this Degree award.

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APPROVAL

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DEDICATION

I dedicate this work to the Almighty God for the divine guidance, and to my family members, Okoboi Joseph, Jemimah Francis, Inadi Ritah, Nambooze Olive Shammer and finally Mabiriizi Julius.

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Colors, Sector 1

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TABLE OF CONTENTS

'n

4

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DECLARATION i
APPROVAL
DEDICATIONiii
ACKNOWLEDGEMENTS iv
TABLE OF CONTENTS
LIST OF FIGURES
LIST OF TABLES
LIST OF ACCRONYMSix
ABSTRACT
CHAPTER ONE: INTRODUCTION
1.1 Background of the study
1.2 Problem statement
1.3 Objectives of the study
1.3.1 General objective
1.3.2 Specific objectives
1.4 Research questions
1.5 Significance of the study
1.6 Conceptual frame-works
1.7 Report lay out
CHAPTER TWO: LITERAURE REVIEW
2.1 Introduction
2.2 Social economic factors
2.3 Institutional factors and extension delivery policy
2.4 Challenges to farmers
CHAPTER THREE: METHODOLOGY
3.1 Introduction
3.2 Research design
3.3 Sampling procedure

3.4 Data collection
3.5 Population and Sample size
3.6 Type of data and source
3.7 Data processing and analysis14
3.8 Limitations
3.9 Ethical considerations
CHAPTER FOUR: PRESENTATION AND DISCUSSION OF FINDINGS
4.1 Introduction
4.2 Socio-economic factors
4.2.1 Continuous variables
4.2.2 Distribution based on income level of the household heads monthly basis
4.2.3 Land size
4.2.4 Gender
4.2.5 Education level
4.2.6 Marriage status
4.2.7 Information about modern farming technologies`
4.3 Institutional factors
4.3.1 Technologies and farming practices passed on to farmers
4.3.2 Source of information about modern farming methods
4.3.3 Membership to farmer organisation
4.3.4 Perception on the government extension policy
4.3.5 Respondents' access and use of credit
4.4 Discussion of Findings
CHAPTER FIVE: SUMMARY, CONCLUSIONS AND RECOMMENDATIONS
5.1 Introduction
5.2 Summary of the findings
5.3 Conclusions
5.4 Recommendations
REFERENCES

LIST OF FIGURES

Figure 1.1	Conceptual framework	. 6
Figure 4.1	Income levels of the respondents	.17
Figure 4.2	Gender of the respondents.	19
Figure 4.3	Level of education of house hold head	19
Figure 4.4	Marriage status of the respondents	20
Figure 4.5	Knowledge about modern farming methods	21
Figure 4.6	Membership to farmers cooperative	24
Figure 4.7	Access and use of credit by respondents	25

LIST OF TABLES

Table 4.1	Descriptive statistics of some continuous variables
Table 4.2	Land size devoted to agriculture17
Table 4.3	Distribution of land devoted to agriculture
Table 4.4	Distribution of respondents by gender
Table 4.5	Distribution of respondents by education level19
Table 4.6	Distribution of respondents by marriage status
Table 4.7	Distribution of respondents by awareness about modern farming technologies20
Table 4.8	Modern technologies and farming practices passed on to farmers
Table 4.9	Source of information about modern farming methods
Table 4.10	Distribution of respondents by membership to farmer organisations23
Table 4.11	Peoples' perception of government policy of extension24
Table 4. 12	Distribution by access and use of credit by respondents25

LIST OF ACCRONYMS

DSIP	Development Strategy and Investment Plan
DÁÓ	District Agricultural Officer
FAO	Food and Agricultural Organisation
GMS	Genetically Modified Seeds
IFPRI	International Food Policy research Institute
LGDP	Local Government Development program
MAAIF	Ministry of Agriculture Animal Husbandry and Fisheries
NAADS	National Agricultural Advisory Services
NRM	National Resistance Movement
OECD	Organization for Economic Co-operation and Development
PEAP	Poverty Eradication Action Plan
PMA	Plan for Modernization of Agriculture

ix

ABSTRACT

The broad objective of the study was to determine the factors that influence the implementation of the NAADS program in Pallisa sub-county in Pallisa district. Data for the study was collected on variables like age, education level, sex, income level, marital status, awareness about modern farming technologies, modern technologies passed on to farmers, access and use of credit, source of information about modern farming practices and peoples' perception about government extension policy for 50 respondents and these were identified using random sampling technique.

Results indicate that implementation of NAADS program is influenced by socio-economic factors that include age, education level, family size, marital status, farming experience, income level and gender and institutional factors that include credit access, extension contact and policy, access to information. Membership to farmers' cooperatives was concluded as the most important source of information about NAADS to farmers. It was also discovered that improved varieties, pest control using chemicals, herbicide control of weeds, proper spacing of crops, deworming of animals and birds and use of modern farming implements were the technologies and modern farming methods passed on to farmers in Pallisa sub-county.

It was concluded that measures to improve socio-economic sector like education, family size in terms of family planning, should be intensified. It was also recommended that government effort should be intensified in terms of availing credit, extension services and fighting corruption.

Key words; NAADS, farmers, technology, implantation, Pallisa

CHAPTER ONE: INTRODUCTION

1.1 Background of the study

Agriculture plays an important role in employment and revenue generation as well as in the provision of raw materials for industrial development (Chikezie et al., 2012). Agricultural production seems to be declining over the years while the population keeps growing. Hence, with rapid increase in population growth of about 3.2 percent per annum, the gap between food demand and supply continues to widen (Ijere, 1992; Ugwoke *et al.*, 2005; MAAIF, 2011). Agriculture remains a family enterprise, as youth, women and men of all ages are involved one way or the other in the agricultural production process. The implication raised by this is that, concerted effort by everybody capable of potential contribution(s) to the agricultural development process is required, if any is to make a realistic and positive step in solving its agricultural problems (Akinola and Akindiji, 1991; Ekong, 2003).

The National Agricultural Advisory Service (NAADS) is a programme of the government of Uganda which was introduced to increase efficiency and effectiveness of agricultural extension services (NAADS, 2001). It is an innovative public-private extension service delivery approach (IFPRI, 2007). It is a semi autonomous body under the national agricultural advisory services Act of June 2001 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. Its development goal is to enhance rural livelihoods by increasing agricultural productivity and profitability in a sustainable manner.

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

REFERENCES

Adewale, J., Oladeji, J., & Ogunniyi, L. (2003). Economic contribution of farm children to agricultural production in Nigeria *Journal of Social Science 10(2): 149 – 152.*

Akinola, C., and Akindiji, C., (1991). Integration of rural youth programmes in unified agricultural extension system in Nigeria.

Benin, & Samuel N., (2007). International food policy research institute, Kampala Adesiina, A.A. & Baidu-Forson, J. (1995). Farmers' perceptions and adoption of new agricultural technology: Evidence from analysis in Burkina Faso and Guinea, West Africa. *Journal of Agricultural Economics, 13, 1-9.*

Boahene, K., Snijders, T.A.B. & Folmer, H. (1999). An integrated socio-economic analysis of innovation adoption: The case of Hybrid Cocoa in Ghana. *Journal of Policy Modeling*, 21(2), 1

Daku, L. (2002). Assessing farm-level and aggregate economic impacts of olive integrated pest management programs in Albania. PhD. Dissertation, Virginia Polytechnic Institute and State University, David, Lynne Riener Publishers.67-184

Doss, C. & Morris, M. (2001), How does gender affect the adoption of agricultural innovation? The case of improved maize technologies in Ghana, *Journal of Agricultural Economics*, 25, 27-39

Ehler, L.E & Bottrell D.G. (2000). The illusion of integrated pest management Issues in science and technology, Bell and Howell Information and Learning Company, pp. 61-64

Feder, G., Just E. R. & Zilberman D., (1985). Adoption of agricultural innovations in developing countries: A survey. Economic Development and Cultural Change, 33, 255-298.

Fernandez-Cornejo, (1996). The microeconomic impact of IPM adoption: Theory and application. Agricultural and Resource Economic Review, 25, 149-160.

Green, D.A.G., & Ng'ong'Ola D.H. (1993). Factors affecting fertilizer adoption in less developed countries: An application of multivariate logistic analysis in Malawi. *Journal of Agricultural Economics*, 44 (1), 99-109.

Rogers, E.M. (1995). Diffusion of innovations 3rd Edition, New York: The Free Press.

Caswell, M., Fuglie, K., Ingram, C., Jans S. & Kascak C. (2001). Adoption of Agricultural production practices: Lessons learned from the US. Department of Agriculture Area Studies Project, US Department of Agriculture, Resource Economics Division, Economic Research Service, Agriculture Economic Report No. 792. Washington DC

Kasenge, V. (1998) Socio-economic factors influencing the level of soil management practices on fragile land. In proceedings of the 16th Conference of Soil Science Society of East Africa

McNamara, K. T., Wetzstein M. E., & Douce G.K. (1991). Factors affecting peanut producer adoption of integrated pest management, *Review of Agricultural Economics*, 13, 129-139.

Yaron, D., Dinar A., & Voet H, (1992). Innovations on family farms: The Nazareth Region in Israel. *American Journal of Agricultural Economics*, 361-370.

Harper, J. K., Rister, M.E., Mjelde, J. Drees, B.M. & Way, M.O. (1990). Factors influencing the adoption of insect management technology *American Journal of Agricultural Economics*, 72(4), 997-1005

Chikezie N.P., Omokore D.F., Akpoko J.G.& Chikaire J. (2012). Factors influencing rural youth adoption of cassava recommended production practices in Onu-Imo local government Area of Imo State, Nigeria, Department of Agricultural Economics and Rural Sociology, Institute of Agricultural Research, Ahmadu Bello University, Zaria, Nigeria.

Department of Agricultural Extension, Federal University of Technology, Owerri, Imo State, Nigeria

Food and Agriculture Organisation, (1997). Youth works an information note on rural youth and young farmers, Vol 11 No 1. pp 1-2, FAO Rome

Ekong, E.E. (2003). An Introduction to Rural Sociology, Dove educational Publishers, Uyo, Nigeria

Ijere, M. O. (1992). Leading issues in Nigeria rural development: Centre for research and development. (C.R.D) University of Nigeria, Nsukka

Organisation for economic co-operation and development (2001). Adoption of technologies for sustainable farming systems Wageningen Workshop Proceedings

International food policy research institute (2007). The role of agriculture in development, the implications for sub-Saharan Africa

Marc Jim Mariano, Renato Villano and Euan Fleming (2012). Factors influencing farmer's adoption of modern rice production technologies and good management practices in the Philippines

Ministry of agriculture, animal husbandry and fisheries (2011). Statistical abstract, agricultural planning department

Ministry of Agriculture Animal Industry and Fisheries (2000). National Agricultural Advisory Services Programme (NAADS): Master Document of the NAADS Task Force and Joint Donor Groups. Kampala: Uganda

Nkonya, E., Schroeder & Norman D. (1997). Factors affecting adoption of improved maize seed and fertilizer in northern Tanzania, *Journal of Agricultural Economics*, 48(1), 1-12

Joseph Oonyu, (2011). Upland rice growing a potential solution to declining crop yields and degradation of the Doho wetlands, Butaleja district- Uganda

Oladeji, J. O., Oyedokun, A. O. & Bankole, M. B. (2001). Youth activities and constraints to community development in Akoko, North, Ondo State, Nigeria *Journal of Agricultural Extension Vol. 13 No. 1*

Ugwoke, F. O., Adesope, O. M. and Ibe, F. C. (2005). Youth participation in farming activities in rural areas of Imo state, Nigeria: Implications for extension. *In journal of agricultural extension vol. 8 pp 136-142*