

Ghana - Afrint Household Level Data 2002 and 2008, Round I & II

Lund University - Swedish Government

Report generated on: September 12, 2014

Visit our data catalog at: <http://www.statsghana.gov.gh/nada/index.php>

Overview

Identification

ID NUMBER

GHA-C-DAMAA-AFRINT-2014-v1.0

Version

VERSION DESCRIPTION

Version1.0 (September, 2014)

PRODUCTION DATE

2010-09-30

Overview

ABSTRACT

Afrint intensification of food crops agriculture in sub-Saharan Africa Swedish-African Research Network Agricultural development and its relation to food security and poverty alleviation Primary research in nine sub-Saharan African countries. Afrint - three phases 2001-2016.

Afrint I - 2001-2005: The African Food Crisis - the Relevance of Asian Experiences

Afrint II - 2007-2010: The Millennium Development Goals and the African Food Crisis

KIND OF DATA

Aggregate data [agg]

UNITS OF ANALYSIS

Household

Scope

NOTES

Scope of Surey Round I (2001-2005)

Household demographic and socio-economic characteristics

Farm and crop management

Maize

Cassava

Cassava, marketing conditions

Sorghum

Rice

Other food crops and vegetables

Non-food cash crops

Land resources

Livestock

Labour resources

Institutional conditions

Incomes and expenditures

Scope of Survey Round II (2007-2010).

Household Demographic and Socio-Economic Characteristics

Farm and Crop Management

Crops

Maize

Cassava

Sorghum

Rice

Rural - Urban and Rural - Rural Linkages (staple crops)

Other food crops and vegetables (for local markets)

Non-food cash crops (wholly or partly for export)

Agricultural Techniques

Land resources

Livestock & Fish

Livestock

TOPICS

Topic	Vocabulary	URI
Food (production, crisis)	World Bank	

Coverage

GEOGRAPHIC COVERAGE (1)

Sub-Saharan Africa, (Ethiopia, Ghana, Kenya, Malawi, Nigeria, Tanzania, Uganda, Zambia)

GEOGRAPHIC COVERAGE (2)

Regions within selected countries

GEOGRAPHIC UNIT

Regions within selected countries

UNIVERSE

Farming Household

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Lund University	Swedish Government

OTHER PRODUCER(S)

Name	Affiliation	Role
Goran Djurefeldt	Lund University	Project leader
Mikael Hammarkjold	Lund University	Team member
Hans Holmen	Lund University	Team member
Magnus Jirstrom	Lund University	Team member
Rolf Larsson	Lund Uinersty	Team member
Agnes Anderson Djurefeldt	Lund University	Team Leader

FUNDING

Name	Abbreviation	Role
Swedish International Development Authority	Sida	Funder
Bank of Sweden Tercentenary Foundation	BoSTF	Funder

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Centre for Data Archiving, Management, Analysis and Advocacy	C-DAMAA	University of Cape Coast	Documentation of the Study

DATE OF METADATA PRODUCTION

2014-09-12

DDI DOCUMENT VERSION

Version 1.0 (September, 2014)

DDI DOCUMENT ID

DDI-GHA-C-DAMAA-AFRINT-2002-2008-v1.0

Sampling

Sampling Procedure

Data collection for the first round of the Afrint project was made in 2002. The data collected as part of the second round are referred to as 2008 data, although in some cases collected in late 2007. From the outset the research team selected five case study countries: Ghana, Kenya, Malawi, Nigeria and Tanzania. Outside francophone Africa, these five countries were ideally suited, in the researchers' view, to charting progress in intensification, induced from below by farmers themselves, or state induced, as in the Asian Green Revolution. At the insistence of Sida, to the original five countries, four more were added: Ethiopia, Mozambique, Uganda and Zambia. Unlike the original five, the three last mentioned countries were deemed less constrained with respect to productive resources in agriculture. Ethiopia on the other hand is peculiar in an African context, with its long history of plough agriculture, and feudal-like social formation. In this project, the heterogeneous sample of countries has proved less cumbersome to work with than one might have expected.

Formally, the Afrint sample was drawn in four stages, of which the country selection described above was the first one. The next stage was regions within countries, followed by selection of villages within regions, and with selection of farm households as the last stage. All stages except the final one have been based on purposive sampling. Data collection was sought to be made at all four levels. The households sampled within these countries were selected with respect to the agricultural potential of the areas in which they reside. The intention was to capture the dynamism in the areas that are 'above average' in terms of ecological and market (infrastructure) endowments but excluding the most extreme cases in this regard. For logistical reasons we could not aim for a sample which is representative in a statistical sense. Instead we aimed at a sample which is illustrative of conditions in the maize-cassava belt, excluding both low potential dry and remote areas and extreme outliers at the other end of the scale.

Thus we used a four-stage sample design, with purposive sampling at all stages, except the last one, where households were sampled after having made up household lists. When we compare point estimates from the sample with those from other sources, for example yields for the various crops with FAO statistics, no apparent sample bias has been detected.

In addition to household questionnaires we also used village questionnaires. Respondents to village interviews were key persons, like village leaders and extension agents. Investigators were also instructed to conduct focus group interviews with representatives for various segments of the village population, including women farmers. When going for a second round and a panel in 2008, we went for a balanced panel design, i.e. constructing the 2008 sample so that in itself it would be representative of village populations in 2008. This also involved sampling descendants when a household had been partitioned since 2002. In case of sizeable in-migration to a village, we also provided for sampling from the newly arrived households. The 2002-2008 panel thus is a subset of the two cross sectional samples. In itself this subset is not statistically representative of the village population in any of the two years

Deviations from Sample Design

20.6 Percent

Response Rate

79.4 Percent

Weighting

The weight for the data was not provided

Questionnaires

Overview

Scope of Surey Round I (2001-2005)

Household demographic and socio-economic characteristics
Farm and crop management
Maize
Cassava
Cassava, marketing conditions
Sorghum
Rice
Other food crops and vegetables
Non-food cash crops
Land resources
Livestock
Labour resources
Institutional conditions
Incomes and expenditures

Scope of survey II

Household Demographic and Socio-Economic Characteristics
Farm and Crop Management
Crops
Maize
Cassava
Sorghum
Rice
Rural - Urban and Rural - Rural Linkages (staple crops)
Other food crops and vegetables (for local markets)
Non-food cash crops (wholly or partly for export)
Agricultural Techniques
Land resources
Livestock & Fish
Livestock

Data Collection

Data Collection Dates

Start	End	Cycle
2001	2002	1 yrs
2007	2008	1 yrs

Time Periods

Start	End	Cycle
2001	2010	5 years
2001		5 years

Data Collection Mode

Face-to-face [f2f]

DATA COLLECTION NOTES

The research team worked with a two-pronged strategy for collecting data, building simultaneously on qualitative and quantitative methods. The core of the latter is a survey, which gives the quantitative backbone of the study. The study relied on two strategies: First by drawing as much as possible diachronic and historic data in the collection of qualitative material and other secondary data.

This was done in the macro studies, conducted by the partners in each country and subjected to comparative analysis by the Swedish team. Second, The research built a temporal dimension into the survey by asking the recall method, asking farmers to compare the present situation to earlier times.

Data Collectors

Name	Abbreviation	Affiliation
Gran Djurfeldt	G.D.	Dept of Sociology, Lund University
Hans Holmn,	H.H.	Institution for Thematic research, Linkping University
Magnus Jirstrm	M.J.	Dept of Social and Economic Geography, Lund University
Agnes Andersson	A.A	Dept of Social and Economic Geography, Lund University
Johanna Bergman-Lodin	J.B	Dept of Social and Economic Geography, Lund University
Cheryl Sjstrm,	C.S.	Dept of Social and Economic Geography, Lund University
Dr. Wolday Amha	W.A	Ethiopian Economic Association
Dr. Teketel Abebe	T.A	Addis Ababa University
Dr. Mulat Demeke	M.D	Addis Ababa University
Professor Willis Oluoch-Kosura	W.O	African Economic Research Consortium (AERC)
Dr. Stephen K. Wambugu	S.K.W	Department of Geography, Kenyatta University

SUPERVISION

The enumerators and supervisors were trained at the same time, though supervisors received extra coaching on supervision. Enumerators stayed in the villages during the survey period. Two enumerators were involved in administering the household questionnaires at a time. While one was probing, the other was writing down the answer.

Through this, errors in both probing and recording were minimized. Participatory Rural Appraisal techniques were used to administer the village level questionnaire in the selected villages.

Data Processing

Data Editing

No editing specification given

Other Processing

Not reported

Data Appraisal

Estimates of Sampling Error

No sampling error estimates given

Other forms of Data Appraisal

No other forms of appraisal given.

Related Materials

Questionnaires

Afrint Project Questinnare 2002 and 2008

Title	Afrint Project Questinnare 2002 and 2008
subtitle	AFRINT 2002 and 2008
Author(s)	Swedish team Göran Djurfeldt (team leader), Dept of Sociology, Lund University Hans Holmén, Institution for Thematic research, Linköping University Magnus Jirstrom, Dept of Social and Economic Geography, Lund University Agnes Andersson, Dept of Social a
Date	2014-09-12
Country	Ghana
Language	English
Contributor(s)	Centre for Data Archiving, Management, Analysis and Advocacy (C-DAMAA)
Publisher(s)	Centre for Data Archiving, Management, Analysis and Advocacy (C-DAMAA)
Description	This is the questionnaire for Afrint household survey I. Scope of surey I Household demographic and socio-economic characteristics Farm and crop management Maize Cassava Cassava, marketing conditions Sorghum Rice Other food crops and vegetables
Table of contents	Non-food cash crops Land resources Livestock Labour resources Institutional conditions Incomes and expenditures Rural - Urban and Rural - Rural Linkages (staple crops) Other food crops and vegetables (for local markets) Non-food cash crops (wholly or partly for export) Agricultural Techniques Land resources
Filename	Afrint_I_household_questionnaire.pdf

Afrint Project Questinnare II

Title	Afrint Project Questinnare II
subtitle	Household information
Author(s)	Swedish team Göran Djurfeldt (team leader), Dept of Sociology, Lund University Hans Holmén, Institution for Thematic research, Linköping University Magnus Jirstrom, Dept of Social and Economic Geography, Lund University Agnes Andersson, Dept of Social a
Date	2014-09-12
Country	Ghana
Language	English
Contributor(s)	Centre for Data Archiving, Management, Analysis and Advocacy (C-DAMAA)
Publisher(s)	Centre for Data Archiving, Management, Analysis and Advocacy (C-DAMAA)
Description	This is the questionnaire for Afrint household survey I

	Scope of survey II
	Household Demographic and Socio-Economic Characteristics
	Farm and Crop Management
Table of contents	Crops
	Maize
	Cassava
	Sorghum
	Rice
Filename	Afrint_II_household_questionnaire.pdf

Reports

The Millennium Development Goals and the African Food Crisis-2011

Title	The Millennium Development Goals and the African Food Crisis-2011
subtitle	Afrint II REPORT-2011
Author(s)	Göran Djurfeldt , Agnes Andersson , Hans Holmén , Magnus Jirström
Date	2014-09-12T03:00
Country	Ghana
Language	English
Contributor(s)	Centre for Data Archiving, Management, Analysis and Advocacy (C-DAMAA)
Publisher(s)	Centre for Data Archiving, Management, Analysis and Advocacy (C-DAMAA)
Description	This report summarises research carried out during three years (2007- 2010) in the Sida-financed Afrint II project. The most salient, policyrelevant conclusions deal with maize, which is the biggest food crop in sub-Saharan Africa (SSA), and with seed-fertilizer technology, commercialisation and impacts of government policies
	Background and methodology
	Brief on methodology
Table of contents	Comparing cross-sections 2002 and 2008
	Agricultural policy options
	Concluding reflections on policy relevance
	Looking ahead
	References
Filename	Report.pdf

Other materials

Afrint Project

Title	Afrint Project
subtitle	African food crisis - the Nigerian case study
Author(s)	Kormawa, P. , Okike, I. , Okechukwu, R. , Akande, S. O.
Date	2014-09-12
Country	Nigeria
Language	English
Contributor(s)	Centre for Data Archiving, Management, Analysis and Advocacy (C-DAMAA)
Publisher(s)	Centre for Data Archiving, Management, Analysis and Advocacy (C-DAMAA)
Description	This document is an additional information on Afrint household level data under Nigeria survey.

BACKGROUND

Survey Methodology and data
 Sampling of survey villages and households
 Survey Implementation
 Recruitment and Training of Enumerators
 Field Supervision
 Data Entry, Cleaning and Analysis
 Proof reading to assure data quality
 Village level determinants of agricultural intensification
 Physical endowment of villages
 Infrastructure and markets in selected villages
 Public support to villages
 Farmer organizations
 Land Acquisition
 Indicators of intensification at the village level

Descriptive and econometric analysis of household data

Econometric analysis

Analytical framework

Quantitative variables used in econometric models

Household socio-economic characteristics

Table of contents

Cassava and Maize Production Functions

Constraints to household food production

Productivity trends and adoption of new technologies

Trends in productivity of cassava and maize over time

Cassava productivity during pre-SAP, SAP and post-SAP periods

Maize productivity during pre-SAP, SAP and post-SAP periods

Determinants for cassava and maize technologies adoption

Maize production technology adoption

Cassava production technology adoption

Yield differences and commercialization of cassava and maize

Cassava yield difference

Maize yield difference

Crop Productivity and commercialization

Maize commercialization

Cassava commercialization

Summary and conclusions

Production gains and trends

Productivity

Extent in differences in technology adoption

Differences in marketing

Filename

Notes.pdf