



Collecting Sex Disaggregated Data on Land Ownership and Management in Agricultural Censuses

Uganda Census of Agriculture (UCA) 2008/2009: Overview and experience in collecting sex disaggregated data

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Outline of Presentation

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Introduction and Background

- Uganda is a food basket within the great lakes region.
- The National Statistical System in Uganda is decentralized, and is coordinated, supervised and monitored by UBOS. Statistical production in Uganda is guided by the UBOS Act (1998).
- The Ministry of Agriculture, Animal Industry and Fisheries produces statistics through a decentralized mechanism - (Parastatal bodies, Local Governments/Districts);
- Production of Agriculture statistics began in the 1960's, and has been supported by government of Uganda, FAO, DFID, AfDB, Norway among others.
- Censuses undertaken include:
 - 1963/65 – 1st Agriculture Census
 - 1990/91 – 2nd National Census of Agriculture and Livestock
 - 2008 - 3rd Uganda Livestock Census
 - 2008/09 – 4th Uganda Census of Agriculture
- A National Agriculture Statistics Technical Committee is in place as a sub-Committee of the NSDS (PNSD) – Meets Quarterly to discuss issues of methodology, data collection instruments, Quality standards etc



Objectives of UCA

Goal: Develop a system of Food and Agriculture Statistics (FAS).

Immediate objective

To generate benchmark data for monitoring and evaluation of the agricultural sector at all levels.

Specific objectives were to:

- Provide data on Uganda's agricultural structure
- Provide detailed agricultural data on number of holdings, total area of holdings, basic pattern of land utilization, area under crops and extent of irrigation;
- Create and strengthen national capacity in agricultural censuses and survey undertakings



Methodology

- **Scope**
 - **Crop Census** – with limited questions on forestry and aquaculture
 - Household based and Private and large scale institutional farms
- **Coverage:** 80 districts in the country (as of July 2007) were covered
- **Modular approach:** Used to a greater extent.
 - **Why?** PHC done in 2002-before the modular approach;
 - However **Items recommended were covered** in the questionnaires.

The UCA 2008/09 collected information **using 6 modules (questionnaires):**

1. UCA Form 1: Listing module
2. UCA Form 2: Agricultural Household and Holding module
3. UCA Form 3: Community module
4. UCA Form 4: Crop Area module
5. UCA Form 5: Crop Production module
6. UCA Form 6: Private large scale and institutional farms module



Methodology ctd

- **Sample census** consisting of a dual frame design:
 - ❖ **A List Frame** for the Private Large Scale and Institutional Farms (PLS&IFs). These were administered on complete basis.
 - ❖ **A List frame for EAs**-for the small and medium scale household-based holdings. A sample of households was selected from the Area Frame using a two-stage sample design.
 - ❖ Enumeration Areas (EAs) were selected at the 1st stage and
 - ❖ 10 Households were sampled from EAs at the 2nd stage.
- **UCA reference period** was 2008/9 –an agricultural year constituting two agriculture seasons .i.e. Second season of 2008 (July to Dec) and first season of 2009 January – June).
- **No Reference date**

Data processing, analysis and dissemination

- **Returned questionnaires** were subjected to the following steps:
 - ❖ Coding: This involved making sure that all forms/questionnaires had correct geographical identification information and correct crop codes.
 - ❖ Data Capture: Traditional method of data entry using the key board to punch data into the computer.
 - ❖ Editing : Involved identification of inconsistencies following a set of editing rules and guidelines developed, and checking for errors that were not easily detected at first stage editing.
 - ❖ Quality control: An external consultant was hired to carry out quality control to ensure a very high quality dataset.
- ❖ **Analysis Software used:**
 - ❖ Cspro - data capture and management;
 - ❖ Ms Access and Visual Basic - General data management;
 - ❖ STATA- Data editing and analysis; and
 - ❖ Ms Excel and Ms Word- presentation of results from the analysis and report
- **UCA disseminated through**
 - ❖ Stakeholders workshop and press conference;
 - ❖ Reports in print and CDs and ;
 - ❖ Internet- UBOS website.



Main items covered in UCA

- **Land** (*Land use; location; Area of holding; land tenure; Ownership/Terms of rental of parcels and tenure etc - SDD*)
- **Demographic and social characteristics** (*Sex; Age; Relationship to Ag HH head; Education; Main activity etc*)
- **Irrigation and water management** (*Area irrigated; Method of irrigation; Sources of irrigation water; Payment terms for irrigation; other water management practices*)
- **Crop** (*Area – SDD; Production; Crop stand; Disposition etc*)
- **Livestock** (*livestock population; Ownership by females*)
- **Agricultural practices** (*Use of agric-Pesticide types; use of organic farming; etc*)



Main items covered in UCA

- **Agricultural services** (*Receipt and source of Credit; Source of agricultural information; Receipt of extension services etc*)
- **Farm labour** (*Number of workers; Share of operation; **Hired labour all SDD**; Mode of payment; Number of days worked etc*)
- **Household food security** (*Presence of food insecurity; fear of food shortage; and **Coping strategies etc -SDD***)
- **Aquaculture** (*Presence of aquaculture, Area by type of site and production facility, Type of water; source of water, **area managed by female HH member** etc*)
- **Forestry** (*Area of forest or wooded land*)
- **Management of Holding** (*Sex of sub-holder/responsible person; area of crop*)

Sex Disaggregated Data

1a. Parcel and plot level : Information collected using Crop Area module included items/questions below:

	Parcel	Plot
1	Name	Sex of plot manager
2	Sex of responsible person	Within EA (Collected indirectly)
3	Location (within or outside EA)	Crops grown
4	Ownership / Terms of rental	Crop stand
5	Presence of shifting cultivation	Who decides on proceeds from plot?
6	Period (years) since last cleared	If dominant crop was grown on plot in agric season
7	Area (using GPS and farmer's estimate)	Area (using GPS)



Sex-disaggregated data ctd

1b. Parcel level: More information collected using Agricultural households and holding module included the following items:

1. Name of parcel
2. Sex of sub-holder
3. Parcel acquisition (Inherited; Purchased; Donated or Hire)
4. Land tenure (Customary; Freehold; Mailo land; Leasehold Squatter)



Sex disaggregated data ctd

2. Demographic and social characteristics; Data collected at Individual level in the HH roster (in the Ag HH and holding module) included:

- Name
- Sex
- Relationship to HH head
- Age
- Marital status
- Education attainment
- Ability to read and write (Literacy)
- Main and secondary activity
- Type of Main and secondary activity
- Managing a plot
- Ownership of livestock
- Member receiving credit
- Membership to a farmer's group

Sex Disaggregated Data ctd

Summary : Parcel and demographic modules (Crop area and Ag HH and holding characteristics module)-

- **Questions asked include:**

- *“Does name manage a plot?”*
- *Does name own and livestock?*
- *Sex of responsible person?*
- *Regarding Land tenure -Sex of sub-holder for a parcel?*

- **Data may be sex disaggregated at:**

- *HH level (Number / area of parcels owned by sex of HH head; Holding Area by sex of holder);*
- *Individual (In the roster: Number of persons owning livestock/managing plot,)*
- *Parcel level (e.g. Number of parcels or plots managed by females; Number of livestock by type owned by females; Number of parcels by tenure and sex of sub-holder; Plot/Parcel area by sex of manager)*

- **Not possible to link the two modules by sex because of lack of unique Person Id.**

Country experience in adopting Sub-holder and Sub-holding concepts

- To gauge involvement of each HH member in agric activities, the concept was introduced indirectly in Ag HH and holding module. Here information was obtained about each individual in HH engagement in :
 - a. Managing a parcel /plot and;
 - b. Ownership of livestock and *Response rates were over 99%*
 - c. Main activity of the individual
- There are different levels of management-*strategic decisions are made by Ag holder*
- Sub-holder = manager .i.e. *one who takes operational decisions on behalf of Ag holder and/or (strategic decisions if there was a hired manager)*
- *Responsible person or plot manager were the other terms used for Sub-holder*
- UCA listing form identified an Ag. holding by asking if any member of the HH operated an agricultural holding (crop or livestock) within the EA. gives sense that it's not the head who does agric only. This wd have been useful in identifying the Ag holder (major decision maker) though it was never used.

Lessons learnt

- **Uganda has to identify key indicators for which SDD is required.** SDD may not be collected on all variables in the census. Why? –Time, cost and it makes the questionnaire bulky-respondents may get fatigued . There is need for gender specific surveys
- **It is difficult to identify owner for rudimentary agricultural equipment –all belong to Ag holder but EDGE project is trying it out.**
- **There is potential for analysis of agric asset ownership in future censuses :**
 - UCA collected data on Land (& land tenure) may be analysed by sex of sub-holder/manager in order to assess the asset ownership by sex in the agric sector.
 - **if Capacities of data producers need to be strengthened** (and help them appreciate gender issues);
 - There are **on-going efforts to enhance gender analysis for all sectors** of which agric censuses and surveys are a part.



Lessons learnt

- In order to improve the census questionnaire so as to collect SDD on various aspects
 - For questions that require SSD analysis- **introduce Unique person identifier** in order to link to the roster; e.g. Production, land (parcels, plots), crops grown etc
 - Within the HH roster **ask the major task/work of the individual on the holding** (ploughing, making strategic decisions, selling produce, harvesting? etc)
 - Regarding management of parcel/plot -**ask for specific activities for which the manager** is responsible
 - Have qns that identify the person that has control on for e.g. output
 - Introduce some qualitative questions where SDD is needed;
- **Concepts of sub-holder and sub-holding has not yet reached its purpose: Why?**
 - Limited direct questions to identify sub-holder and the activities undertaken;
 - No analysis at sub-holder level for those which data was collected.



Specific recommendation for WCA 2020 programme

- **Support in terms training of**
 - **Engendering the agriculture census and surveys**
 - **Gender analysis**

End

