



## **Ghana Statistics Service – FAO - USDA/NASS**

### **Regional Workshop on Sampling for Census of Agriculture 2010 and Agricultural Surveys**

*19-23 April 2010, Accra, Ghana*

#### TIMETABLE

MONDAY 19, April 2010

#### **09.00-09.30: Opening Session**

- Remark by *GSS, FAO, USDA*
- Introduction to the workshop and programme: *N. Keita, FAO*

#### **9.30–10.30: Technical Session 1: Agricultural Census in the National Survey Programme**

Chair: USDA

- Global Strategy for Improving Agricultural Statistics: Integration of the WCA2010 in the National Survey Programmes and the National Strategy of Statistical Development, *N. Keita, FAO*
- New features of the World Programme of Census of Agriculture 2010 (WCA2010): Modular Approach to Data Collection, *M. Srivastava, FAO*

Lead discussant: Sudan

*10.30-10.45: Coffee break*

#### **10.45–12.30: Technical Session 2A: Strategies for Modular Approaches to Collection of Structural Data**

Chair: N. Keita, FAO

- Operationalisation of the Modular Approach and Integration of Census and Survey, *M. Srivastava, FAO*

- Presentation of Country Experiences on Use of Sampling for Collection of Structural Agricultural Data from: *Uganda, Tanzania*

Lead discussant: *South Africa*

*12.30-13.30: Lunch break*

**13.30 -15.00: Technical Session 2B: Group Exercises on Modular Approaches to Census and Survey Programs**

Exercises were continued in the first 4 days of the workshop and the final presentations were given the last day

*15.00-15.30: Coffee break*

**15.30 –17.00: Presentation by groups and discussion**

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TUESDAY 20, April 2010

**8.30-10.30: Technical Session 3A: Area Sampling Frames for Agricultural Surveys**

Chair: *N. Keita, FAO*

- General presentation on Building, Using and Maintaining Sampling Frames: Area Frame, Multiple Frame, Master Sampling Frames, *Terry Holland, USDA/NASS*

Lead discussant: *A. K. Srivastava, FAO Consultant*

*10:30-10:45: Coffee break*

**10.45-12.30: Technical Session 3B: Country practices on Area Frames for Agricultural Surveys**

Chair: *T. Holland, USDA*

Presentation by:

- *Morocco*
- *Ethiopia*

Lead discussant: *Nigeria*

*12.30-13.30: Lunch break*

**13.30: Field visit for Practical work on Population Census cartography, Enumeration Area recognition, identification of boundaries and Use for Area Frame, *Ghana Statistical Service***

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WEDNESDAY, 21 April 2010

**9.00–10.30: Technical Session 4A: List Frames for Agricultural Census and Surveys**

Chair: *M. Srivastava, FAO*

- Building, Using and Maintaining List Sampling Frames
- Use of Population Census to build a frame for Agricultural Census and Surveys, and Master Sampling Frame

*A. K. Srivastava, FAO Consultant*

- Country practices on List Frame. Presentation by *Mozambique*

Lead discussant: *Malawi*

*10.30-10.45: Coffee break*

**10.45-12.30: Technical Session 4B: Practical Issues Relating to Sampling Frames**

Group discussions and presentations on topics:

1. Questions on agriculture to be included in the Population Census
2. Implications of operational definition of “agricultural holding” on cost and coverage of agriculture census

*12.30-13.30: Lunch break*

**13.30 -15.00: Technical Session 5A: Application of Sampling**

Chair: *N. Keita, FAO*

- Introduction to Sampling Schemes and Related Estimation Procedures
- Determination of Sample Size, Sample Allocation and Sample Selection

*A. K. Srivastava, FAO consultant*

*15.00-15.30: Coffee break*

**15.30–17.00: Technical Session 5B: Practical Exercises on Sampling and Estimation**

Group Exercises on:

- Sampling Schemes, Sample Size and Sample Allocation
  - Selection of Sample
  - Computation of Estimates, use of Statistical Packages
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THURSDAY, 22, April 2010

**9.00–10.00: Technical Session 6A: Estimation of Sampling Errors**

Chair: *USDA*

- General presentation on Sampling Errors, CV, Confidence Interval
- Variance Estimation Methods

*A. K. Srivastava, FAO consultant*

**10.00 -12.30: Technical Session 6B: Practical Exercises on Estimation of Sampling Errors**

Group Exercises on:

- Sampling Errors
- Computation of Variance, CV, Confidence Interval

Preliminary Group Presentation

*12.30-13.30: Lunch break*

**13.30 -15.00: Technical Session 7: Evaluation and Treatment of Non-sampling Errors**

Chair: *M. Srivastava, FAO*

- General presentation on Non-sampling Errors
  - Responses
  - Non responses
  - Coverage Errors
- Control of Non-sampling Errors
- Round Table Discussions

*15.00-15.30: Coffee break*

**15.30–17.00: Technical Session 8: Use of Agricultural Census as basis for Annual Crop Forecast and Production Surveys**

Chair: *A. K. Srivastava, FAO consultant*

- Country practices: *Lesotho, Ghana*
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FRIDAY, 23 April 2010

**9.00-10.30: Technical Session 8 (cont.): Use of Agricultural Census as basis for Annual Crop Forecast and Production Surveys**

Chair: USDA

- General presentation on Agricultural Census and Sample Surveys of U.S Agriculture, *Kevin L. Barnes, USDA*
  
- Country practices: *Rwanda, Gambia, Kenya, Swaziland, Namibia*

*10.30-10.45: Coffee break*

**10.45-12.30: Technical Section 9: Presentations of groups' assignments**

*12.30-13.30: Lunch break*

**13.30-14.30:** Review and remaining questions

**14.30-15.00:** Evaluation of the workshop

*15.00-15.30: Coffee break*

**15.30-16.00:**

- Distribution of Certificates
  
- Closing of the Workshop