Statistical confidentiality of agricultural surveys in the context of the AGRISurvey programme

SESSION 4

Thijs Benschop – Clara Aida Khalil (FAO-ESS)
UNECE/Eurostat Work Session on Statistical Data Confidentiality
The Hague, The Netherlands, 29-31 October 2019
Outline

• AGRIS and the AGRISurvey programme
• Anonymization of agricultural surveys
• Country practice – Senegal
• Country practice – Uganda
• Future plans
AGRIS

• Farm-based modular 10-year survey model
  • Core module on agricultural production with rotating modules on other dimensions of agriculture (technical, economic, environmental and social)
• Objective to improve production and dissemination of microdata on agriculture
• Recommendations on sampling strategies
• Linked with monitoring of SDGs
• Survey model developed by Food and Agriculture Organization of the United Nations (FAO)
The AGRISurvey project

Since 2016 AGRISurvey programme to support countries to implement the AGRIS model

Includes **Data Dissemination** component:

- Dissemination of aggregate/tabular data
- Dissemination of microdata from agricultural censuses and surveys
- Assessment of data dissemination policy
Anonymization of agricultural surveys

• Little in literature and practice
• Challenges specific to agricultural microdata from AGRIS surveys:
  • Large household and commercial farms
  • Modular design of AGRIS
  • GPS coordinates
  • Partially rotating sample
Country practice - Senegal

- **EAA 2017/18** conducted by DAPSA
- Two visits: post-planting and post-harvest
- Microdata released as SUF
- Anonymization measures:
  - Direct identifiers and GPS coordinates removed
  - Geo variables kept at level of department
  - Recoding and local suppression to achieve 2-anonymity
  - PRAM
Country practice - Uganda

- **AAS 2018** conducted by UBOS in collaboration with the FAO
- Four visits per year (two visits per agricultural season: Post-Planting and Post-Harvesting)
- Revision of dissemination policy ongoing
- Delays in survey implementation
- Initial assessment and drafting of disclosure scenarios completed
Future plans

• 50by2030 Initiative - scaling up of the AGRISurvey programme
• Need for research on including large-scale commercial farms and GPS coordinates in microdata
• Exchange with other NSOs, institutions on dissemination of agricultural data
Contacts:

• Thijs Benschop: Thijs.Benschop@fao.org

• Clara Aida Khalil: ClaraAida.Khalil@fao.org