



Expert Consultation “Collecting Sex Disaggregated Data on Land Ownership and Management in Agricultural Censuses”

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Lessons learnt from the WCA 2010 and update on the preparations for WCA 2020

Adriana Neciu

FAO, Statistics Division

World Programme for the Census of Agriculture (WCA)



Outline

- **What is a census and why is needed?**
- **Background of WCA and FAO role**
- **Status and overview of WCA 2010 Round**
- **WCA 2020 International Context**
- **WCA in the Integrated Statistical System**
- **Vision for WCA 2020 and proposed changes**
- **Process and way forward**



What is a census and why is needed?

What?

Large-scale statistical operation

for collecting, processing and disseminating data on the structure of agriculture

Census = Complete enumeration

Conducted **completely or partly by sample** enumeration provided that the sample is large enough to generate sub-national data;

Structural data collected :

- size of holding
- land tenure
- land use
- crop area harvested
- irrigation
- livestock numbers
- labor and other agricultural inputs;

Why?

Unique source :

- **benchmark** for agricultural statistics
- **sampling frames** for agricultural surveys
- **data** for **small and custom geographic areas**
rare and emerging commodities
detailed cross tabulation;

Unique opportunity:

- Mobilize and renew attention on agricultural statistics
- Build the **capacity of statistical organizations** (providing them with operational and technical surveys equipment upgrading human capacity);



Background of WCA and FAO role

FAO – lead UN agency for WCA Programme (ROUND)
(Ten year cycle centred on a year ending “o”)

9 WCA rounds, since 1930 have been conducted

- IIA*: 2 rounds (1930 and 1940 - unfinished)
- FAO: 7 rounds (1950, 1960, 1970, 1980, 1990, 2000, 2010)

WCA 2010 (2006-2015) ongoing

WCA 2020 will cover 2016-2025

For each **WCA round**, the FAO Statistics Division

- Prepares and issues guidelines
- Monitors and documents the censuses
- Reviews of results and methodologies



* IIA: International Institute of Agriculture



Status and overview of the WCA 2010 Round

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Participation of countries and territories in the WCA rounds							
Region	1960	1970	1980	1990	2000	2010* Conducted	2010* Planned
No. of countries	100	111	103	90	122	105	42
Africa (55)	28	25	23	20	25	14	20
North and Central America (27)	19	23	18	16	14	15	3
South America (13)	11	10	7	7	8	9	2
Asia (48)	19	19	21	14	29	22	13
Europe (39)	17	24	22	20	29	35	1
Oceania (19)	6	10	12	13	9	10	2

* WCA 2010 (2006-2015) round is ongoing
 105 countries conducted so far
 42 countries planning



New features of WCA 2010



Modular approach

To meet increasing data demands from the agricultural census within a budget constraint.

- Core module ([16 data items](#))– complete enumeration (or sample)
 - Supplementary modules ([12 themes with 87 data items](#))– sample basis
- } same population

Linking Population and Housing Census with Agricultural Census

- Concepts, definitions and classifications
- Cartography and field materials
- Household frame for AC
- Agriculture-related data from the PC (*main occupation, main industry and status of employment*)
- Additional agriculture-related data in the population census
- Linking data
- Joint operation

Community level data ([32 data items](#))

- Characteristics of communities
- Analysis in relation to holding data level
- Checking holding level data

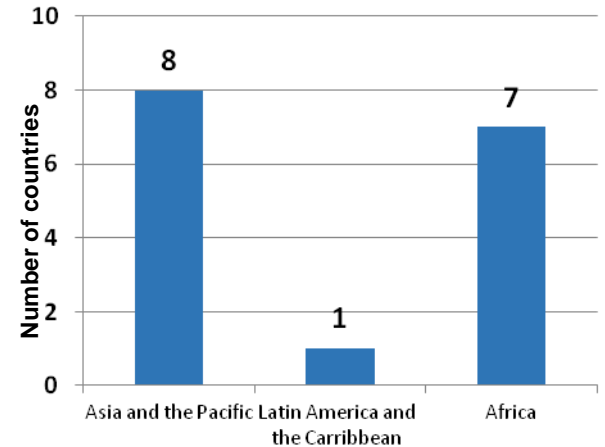




Modular approach_review

Core module in the population census & **supplementary modules** on sample basis in agricultural census:

1. for **creating frame** for agricultural census
2. for **tabulations** at the lowest administrative levels and cross tabulations with supplementary modules (modular approach)



Prelisting vs . core module

Supplementary items included are also important

1. **Structural data** (modular approach)
2. If **no structural data** e.g. *cost of production surveys* (census with follow up surveys)

The time lag between the two operations

Asia and the Pacific: Bangladesh , Cambodia, Lao PDR, Myanmar, Nepal, Pakistan , Samoa and Thailand

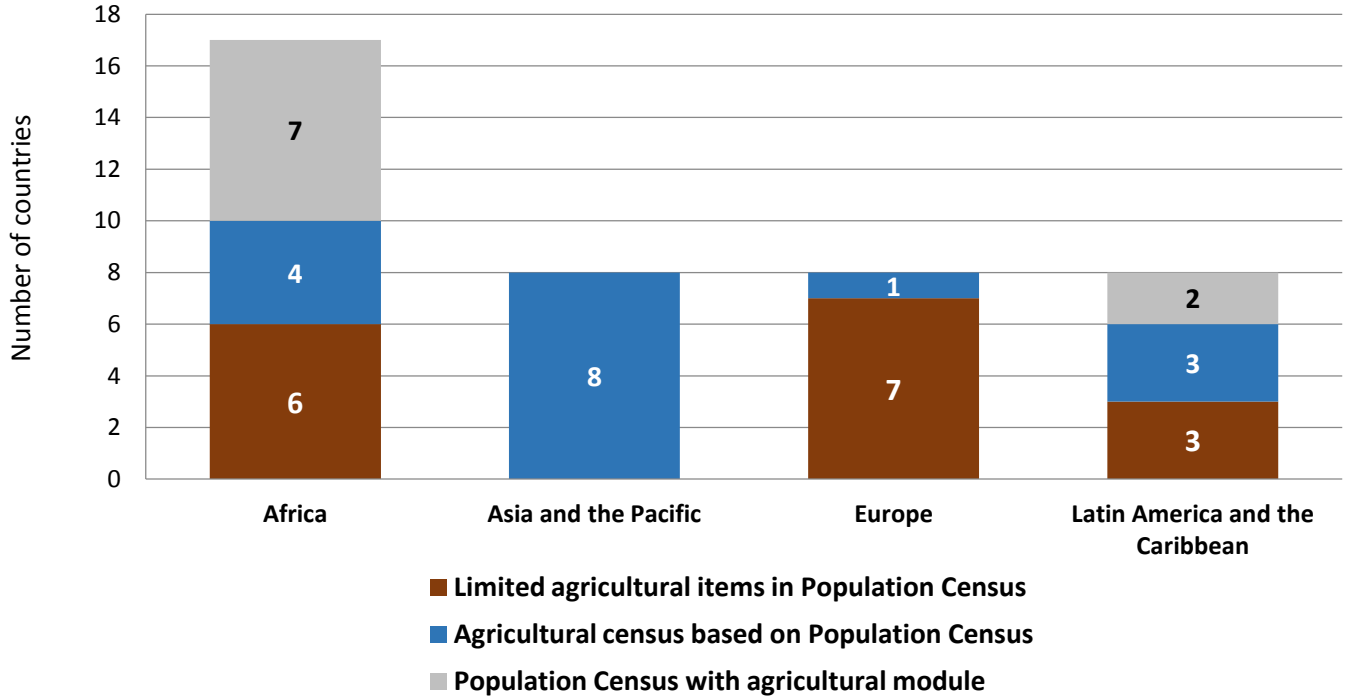
Africa : Burkina Faso, Mozambique, Malawi, Niger, Seychelles, Togo and Uganda

LAC: Jamaica



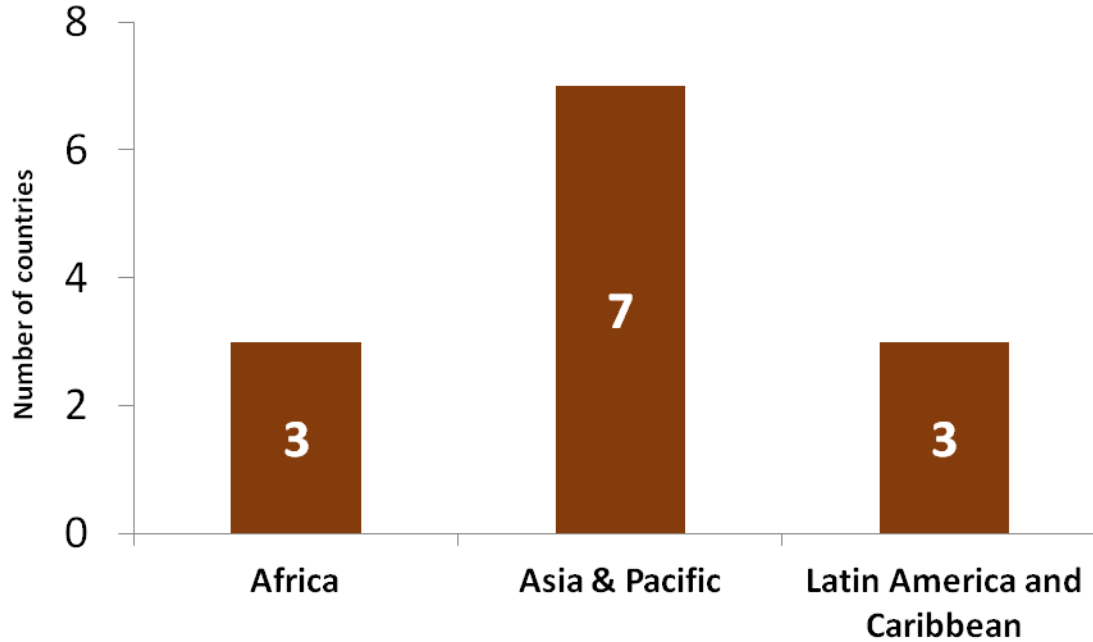


Linking of Population and Housing Census with Agricultural Census_review





Community level data _review



Africa: Malawi, Togo and Uganda

Asia & Pacific: Cambodia, China, Indonesia, Lao PDR, Myanmar, Nepal and Pakistan

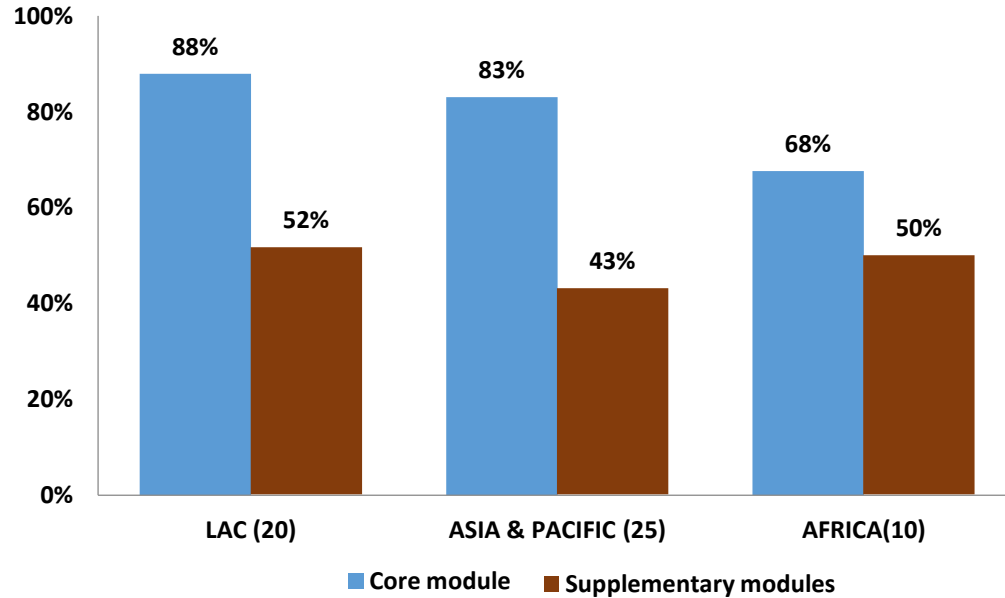
Latin America and Caribbean: Haiti, Nicaragua and Venezuela.





Coverage of data items_WCA 2010 round

Core items & supplementary items





Coverage of supplementary data items

WCA 2010 round

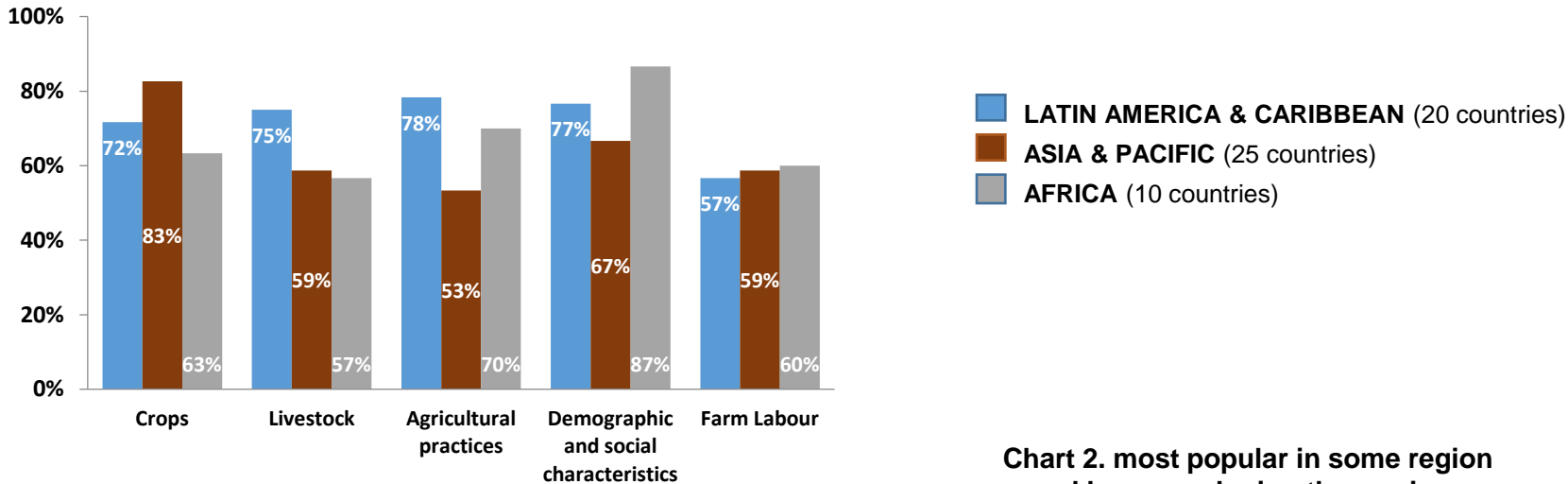


Chart 1. Most popular in all regions (>50%)

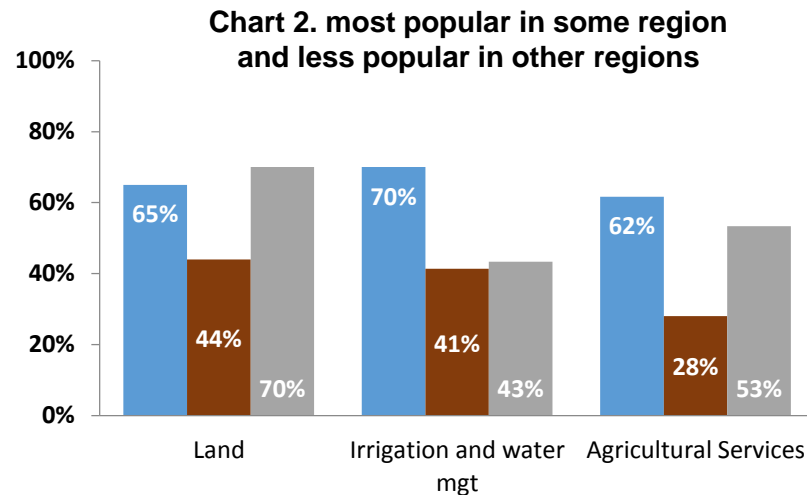
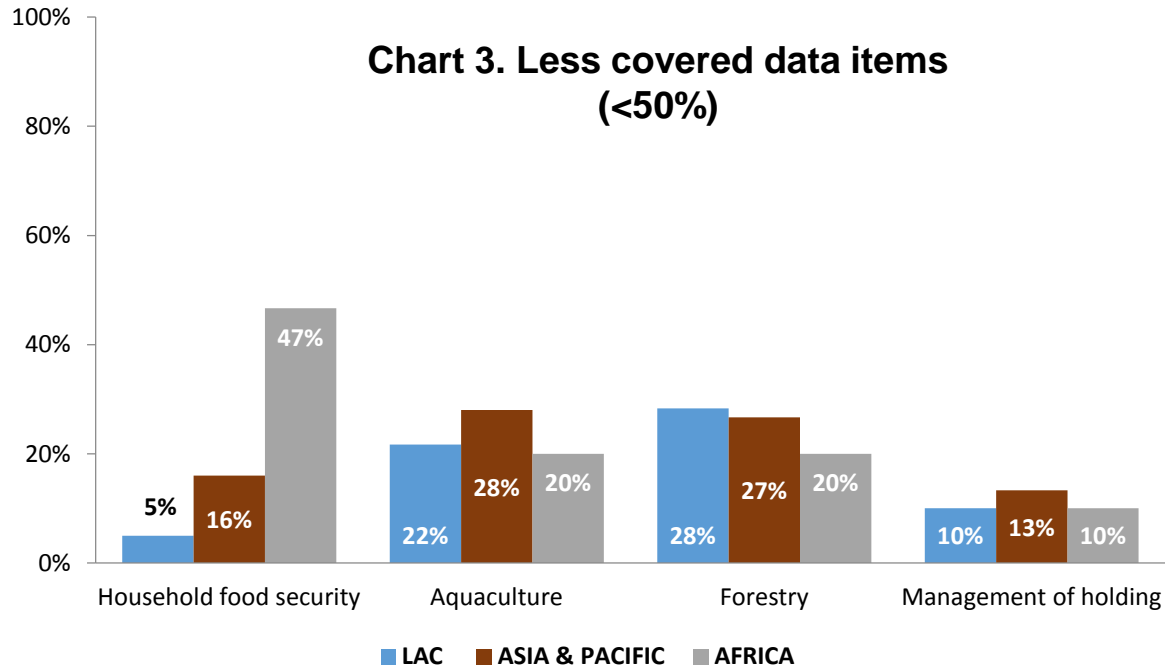


Chart 2. most popular in some region and less popular in other regions



Coverage of supplementary data items

WCA 2010 round



Lesson learnt from the implementation of WCA 2010



Features that remain relevant

(regional consultations and country practices):

- **Modular approach**

more clarity in its definition

- **Linking Population and Housing Census with Agricultural Census**

very useful, in particular contributing to modular approach with a small core module included in the Population Census questionnaire.

- **Community level survey**

will continue to be promoted (data revised and updated)

- **Improving the methods of collecting gender data**

Management of the holding (theme 12) will be revised and better explained

New approaches to be considered

- **Use of new technologies** (where applicable)

- **Use of complementary sources** (registers, farmers associations, cooperatives)



WCA 2020 International Context

Post 2015 Development Agenda/**Busan Plan** for Statistics:

- **Green growth** - interaction between agriculture and environment
- **Food Security** and sustainable agriculture rural development
- **Volatility** in the agricultural industry presently faces (2008 food price crisis)
- **National governments to measure** impact of development policies and programmes
- **Gender and rural employment**

Data requirement to address past and new issues in the 21st Century

- **Basic data** related to the structure of agriculture
- **Climate change** environment, land and water use
- **Food Security** and Rural Poverty
- etc





WCA in the Integrated Statistical System

Global Strategy to Improve Agricultural and Rural Statistics

- Diversified data requirements, beyond traditional realms of agricultural production and trade
- Data on rural households and communities for aquaculture, fishing and forestry
- Data on land not managed by the holding



Makes necessary an **integrated agricultural statistics system:**

- Censuses of agriculture
- Periodic surveys: annual, multi-annual, ad-hoc
- Administrative data
- Other sources





WCA 2020 Vision _ methodological approaches

I. Complete enumeration approach

- complete enumeration of all agricultural holdings
- unique statistical operation or in different phases

Advantages

- data small administrative units
- any types of cross tabulations
- measure rare events

Disadvantages:

- Costly and difficult to manage

II. Sampling approach

- Census enumeration in two parts (complete enumeration of some census items & sampling survey of the rest of census items)
- Sampling part (or all) of the population of holdings collecting all items in the sample survey ("sample census")

Advantages

- Cost reduction
- Good picture on some part of country difficult to access

Disadvantages:

- Limited amount of sub-national and other finely classified data able to be produced
- Well trained personnel in sampling methods and analysis





WCA 2020 Vision _ methodological approaches

a. Modular approach

- **Core items** on complete enumeration (or sample)
(to facilitate international comparisons and to ensure every country has this basic information at the minimum level of disaggregation)
- **Supplementary modules** on sample basis

b. Sample based census/Sample census

- **Sampling approach**
- **Combining complete enumeration and sampling**





WCA 2020 Vision _ concepts

Agricultural holding concept and how to capture?

- Cultivated forestry
- Aquaculture
- Agricultural service activities

Land not managed as part of the holdings (how?)

- Community land,
- Land under water, etc
- Different approaches used by different countries.

Methods for collection of gender disaggregated data and role of women in agriculture





WCA 2020 Vision _ data items to add or revise

Agricultural practices

- Organic farming

Agricultural labour force

- Will be revised in line with the list of changes introduced by ILO

Relevant items on the environment

Expanded data items on aquaculture

- Aquaculture facilities
- Aquaculture inputs





WCA 2020 Vision _ classifications

Land use classification

- Consistency with SEEA, IPCC, FRA
- Further breakdown of the category of "other land" (SEEA: buildings, protected land, aquaculture land)

Crop classification

- Expand coverage to aromatic and medicinal plants
- Mapping to CPC

Machinery and equipment classification

- To cover hand tools (important for developing countries)
- To cover post-harvested machinery
- Breakdown by age and capacity of big machinery
- Mapping to CPC



Process and way forward



Activity	Period
Consultations	
Internal consultations at FAO	Ongoing
External consultations: countries, experts, int'l organizations	Ongoing
Technical papers	
Discussion papers in regional & international meetings: APCAS (2014), AFCAS (2013), IICA (2013), ICAS-VI(2013), IAGFS (2013), UNSC (2014)	Prepared
Methodological review	
Methodological review of agricultural-census in Asia-Pacific, Africa, Americas, Europe	Ongoing
Prioritize recommendations and lessons learnt	Sep-Oct 2013



Process and way forward...cont'd



Activity	Period
Writing	
Concept note and draft workplan	2013
Annotated outline for WCA2020 and technical roles assigned	Nov-Dec 2013
Preparation of 1 st drafts of the Programme	2014
Validation	
Peer review of draft WCA 2020: countries, experts, int'l organizations, regional and intern'l meetings	2014 (end of)
Adoption by governing bodies: UNSC, FAO	2015
Publication and dissemination	
Revision, edition, layout and publication	2015
Dissemination seminars in all regions	2016 onwards





THANK YOU!

for more information please contact
Adriana.Neciu@fao.org

