Second Regional Training Course on Sampling Methods for Producing Core Data Items for Agricultural and Rural Statistics

Module I: Sampling in the Context of the Global Minimum Set of Core Data Items

Session 1.2: Minimum Set of Core Data Items: Output, Resources and
Input Variables

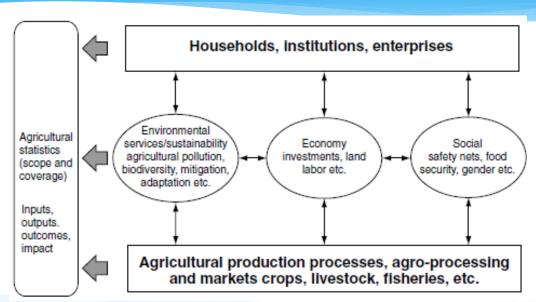
9 – 20 November 2015, Jakarta, Indonesia



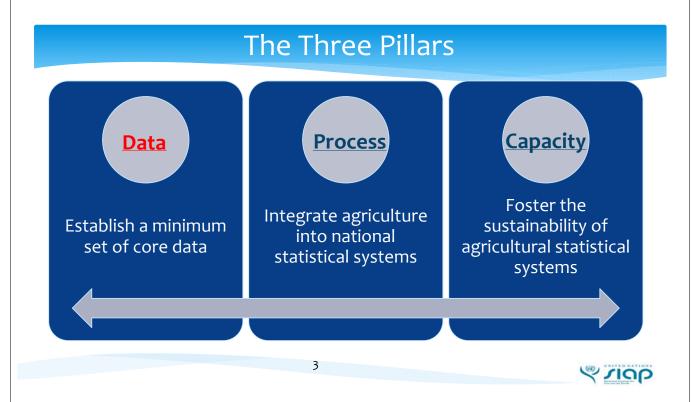




The Conceptual Framework for Agricultural Statistics







Why Minimum?

- * Not possible to meet every data requirement every year
 - * Eg FAO database includes over 150 crop items
- * Minimum set of Global Strategy defines
- * 15 commodities 95% of world production
 - * Core aquaculture and fisheries commodity (country specific?)
 - * Key economic, environmental, social indicators
 - * A starting point for building agricultural statistics systems

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Overview of the minimum set of core data

Variable Types:

Economic

• Output, trade stocks, inputs, agro processing, prices, exp, rural infrastructure

Social

• Demographics, labour, HH income, housing conditions

Environmental

• Soil degradation, water and air pollution

Geographic

• GIS coordinates, degree of urbanization



A Commodity is 'important' if:

- * At the Global level it
 - contributes to agricultural production globally
 - * contributes to any indicator needed to monitor and evaluate development policies, food security and progress towards meeting MDGs
 - is an input to the global balances of supply and demand for food and other agricultural products
- * At the Country level it
 - accounts for a major proportion of land use
 - * is an input to the national accounts and national food balance sheets
 - contributes significantly to farm and rural household well-being
 - * has an effect on the environment and climate
 - * is a staple food item in the country
 - * is an export commodity for the country



Crops

- * Core crop items are: wheat, maize, barley, sorghum, rice, sugar cane, soybeans and cotton
- * Should all core crop items be included in the country minimum core data set?
 - * YES, unless
 - * they are not grown in the country, or
 - * they are not an 'important' crop
- * Other crop items should be added to the country minimum core data set if they are an 'important' crop in the country

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Data required for crop items

- * Area planted and harvested
- * Yield and production
- * Amounts in storage at beginning of harvest
- * Area of cropland that is irrigated
- * Producer and consumer prices
- * Amounts utilized for own consumption, food, feed, seed, fiber, oil for food, bioenergy
- * net trade or imports and exports
- * Early warning indicators such as precipitation, wind-shield surveys of crop conditions, and vegetative indices provided by satellite observations



Livestock

- * Core livestock items are: cattle, sheep, pigs, goats and poultry
- * Should all core livestock items be included in the country minimum core data set?
 - * Yes, unless
 - * they are not relevant in the country, or
 - * they are not an 'important' livestock commodity
- * Other livestock items should be added to the country minimum core data set if they are 'important' to the country

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Data required for livestock items

- * Inventory and annual births
- * Production of products such as meat, milk, eggs and wool
- * net trade or imports and exports
- * Producer and consumer prices



Aquaculture and fisheries products

- * Main products to be determined at country level
- * Data required
 - * For aquaculture: Area cultured, production, prices and net trade or imports and exports
 - * For fisheries: quantity landed and discarded, number of days fished, amounts processed for food and non-food uses, prices, and trade (imp & exp)

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Core Forestry production

- * Main products to be determined at country level
- * Data required
 - * Area in woodlands and forests, quantities removed, and their prices for land associated with agricultural holdings, prices for products from non-agricultural holdings and respective utilizations



Core agricultural inputs

- * Contribute to measures of productivity which are important to monitoring and evaluating steps to reduce poverty and hunger
 - * Quantities of fertiliser and pesticides used
 - * Water and energy consumed
 - * Capital stocks such as machinery by purpose
 - * Number of people of working age by sex
 - * Number of workers hired by agricultural holders
 - * Employment of household members on the agricultural holding

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Core economic data

- * Producer and consumer prices
- * Public expenditures on subsidies
- * Public expenditures on agriculture and rural development
- * Rural infrastructure



Core socioeconomic data

- * Assist the measurement of <u>economic well-being of rural</u> <u>households</u> to guide policy decisions about development efforts to reduce poverty
 - * Household income by source
 - * Number of households and household composition
 - * Population by age and sex
 - * Labour force and employment status
 - * Education levels
 - * Housing conditions

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Core environmental data

- * If available, measures of the <u>impact</u> of agriculture would be desirable
 - * Eg, soil degradation, water pollution and emissions due to agriculture
- * In practice, the following are likely to be used as proxies
 - * Land cover and use
 - * Water use
 - * Fertiliser and pesticide use



Core geographic location data

- * Location of the statistical unit
- * Degree of urbanization

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Setting National Priorities

- 1. Include significant items in the country's value of production
- 2. Items with varying production levels if they are a source of risk for vulnerable groups
- 3. Items that account for majority of land use
- 4. Exclude items produced by few holdings



Developing the National Statistical Plan

- * Determine appropriate rural development indicators, considering MDGs
- * For each core and additional item determine:
 - * Frequency of collection
 - * Level of detail
 - * Coverage
- * Consultation with stakeholders and data users



Group activity

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No.	Indicator	Unit o	f Measuremer	nt	Data Sou	ırce	Frequency	Data Requirements
1	Crops							
	1.							
- 11	Livestock							
	1.							
III	Forestry							
	1.							
IV	Fishery and	l aquacu	lture					
	1.							
V	Holticulture	е						
	1.							

