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2013 Agriculture Census of Cambodia, Challenges, Lesson learnt and Road ahead

Contributed by: Khin Sovorlak, Deputy Director General
National Institute of Statistics, Ministry of Planning
khinsovorlak@yahoo.com

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***Presented by Mr. Khin Sovorlak, DDG, National Institute of
Statistics (NIS)
Website: www.nis.gov.kh***

Outline

- I. Introduction
- II. Implementation
- III. Results of agriculture census 2013
- IV. Challenges & Lesson learnt, Road a head



I. Introduction

- The Agriculture Census of the Kingdom of Cambodia is the first census conducted in 2013. It was a comprehensive statistical undertaking for collection and compilation of information on crop cultivation, raising, livestock and poultry and aquaculture operation.

1. Objective

- The main objective of the CAC 2013 was to provide data on agricultural situation in the kingdom of Cambodia to be utilized by planners and policy makers.
- Providing sampling frame in the conduct of agricultural sample surveys; and,
- Providing data at the smallest administrative unit in the country.
- Agriculture holdings, including cropping, raising livestock and poultry and aquaculture activity.



2. Census coverage

- Agriculture Census is conducted in nation-wide in Cambodia territory.
- 14,073 villages selected (excludes 5 districts in Phnom Penh)
- Households 2.6 million

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3. Authority for undertaking NCAC 2013

- NIS of the Ministry of Planning had the census mandate, and cooperation with MAFF
- MAFF is the primary user of the data produced from the census.

II. Implementation

- Regional Officers (ROs)
- Assistant Regional Officers (AROs)
- Supervisors
- Enumerators

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II. Implementation (con't)

1. Defining and concepts based

Based on FAO recommendations and existing agricultural situation in Cambodia

- Agricultural holding
- Agricultural holder
- Parcel
- Agricultural crops



2. Design and Procedures

- Phase 1 consisted of a core module
Complete listing of all using listing for (A), main questionnaire (B) and village questionnaire (G)
- Phase 2 was a supplementary module
 - Complete enumeration of all large agricultural holdings
 - Enumeration of sample small agricultural holdings (5% of the total small agricultural holdings using systematic sampling) in each sample village (50% of the total villages at the commune level using probability proportional to size)

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II. Implementation (con't)

3. Cartographic updating

- (i) Villages maps included the delineation of enumeration areas, which were drawn separately by the enumerators in order to plot the location of the listed households on these maps.



4. Pilot Test

- One province per Zone, namely, coastal, plain mountainous, and Tonle Sap were selected for this activity
- The results were used to finalize the census questionnaires, manuals and other census procedures.
- The results were also used as inputs for testing the core module and supplementary questionnaires' data entry systems.

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III. RESULTS

NUMBER OF HOUSEHOLD AGRICULTURAL HOLDINGS & TOTAL LAND AREA



3.3 million ha

2.1 million

- Households listed with household agricultural holdings
- Engaged in growing of crops on at least 0.03 ha and/or with minimum of 2 large livestock, and/or 3 small livestock and/or 25 poultry)
- 82% of total listed households (2.6 million households in the census area excluding urban Phnom Penh).

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NUMBER OF HOUSEHOLDS...

...with homelot and separate agricultural lands

1.9 million.

...with homelot only

253 thousand.



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AVERAGE AREA FOR ALL HOUSEHOLD AGRICULTURAL HOLDINGS



1.55 ha

Average area for all household agricultural holdings including the homelots

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HOLDINGS LESS THAN ONE HECTARE...



- Account for 47% of the household agricultural holdings with separate agricultural lands
- Make up 26.6% of the land area of the household agricultural holdings with separate agricultural lands

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HOLDINGS MORE THAN 20 HECTARES...



- Account for 0.24% of the household agricultural holdings with separate agricultural lands
- Make up 6.1% of the land area of the household agricultural holdings with separate agricultural lands

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PERCENTAGE OF TOTAL LAND AREA OF HOUSEHOLD AGRICULTURAL HOLDINGS PLANTED TO...



- Rice: 70.3%
- Cassava Crops: 9.0%
- Vegetables: 1.3%
- Oilseeds: 1.0%

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PERCENTAGE OF AGRICULTURAL HOUSEHOLDS USING FERTILISERS



- ORGANIC
50%
- INORGANIC
70%

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PERCENTAGE OF AGRICULTURAL HOUSEHOLDS USING SELF SOURCED RICE SEED



72%

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PERCENTAGE OF CROP IRRIGATED (BY LAND AREA PLANTED)



- 28% of the rice crop
- 22% of land for all temporary cropping

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HOUSEHOLDS RAISING LIVESTOCK AND POULTRY

75% of all
agricultural
households



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LARGE LIVESTOCK, SMALL LIVESTOCK AND POULTRY

- 66% of households keep large livestock
- 28% of households keep small livestock
- 85% of households keep poultry



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IMPORTANCE OF THE HOMELOT FOR LIVESTOCK RAISING...



90% of livestock and poultry producers household keep and raised on their homelot

NUMBER OF HOUSEHOLDS ENGAGED IN FISHING



526 thousand households engage in fishing

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PURPOSE OF FISHING

- 90% of household agricultural holdings involved in fishing do so mainly for household consumption
- 8% do so mainly for sale
- In the coastal provinces 40-50% of fishing is mainly for sale



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HOUSEHOLDS ENGAGED IN AQUACULTURE

- 26 000 household agricultural holdings engage in some form of aquaculture (1.2% of all such holdings)
- 905 of these households are involved in some form of pond culture
- There is a total area equivalent to 304 ha allocated to aquaculture



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FOREST-RELATED ACTIVITY

- 38% of household agricultural holdings are involved in some sort of forest-related economic activity

Of these households:

- 97% of those involved in forest-related activity are gathering firewood and harvesting of bamboo
- Around 30% gather wild foods from the forest to supplement their diet



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AGRICULTURAL HOUSEHOLDS



- Estimated population 8.5 million persons
- 997 females per 1000 males
- 22% Female headed households
- Mean age 29 years
- Dependent household members (less than 15 years and greater than 60 years) 19% of total population

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FOOD CONSUMPTION



- 96% of agricultural households consume rice 7 days per week
- For all agricultural households on average:
 - Vegetables consumed 4.8 days per week
 - Meat consumed 3.8 days per week
 - Fish consumed 3.5 days per week
 - Fruit consumed 1.7 days per week

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FOOD SECURITY...

- 16% of agricultural households experienced food shortage in past 12 months
- Main cause is low yields



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HOUSEHOLD AGRICULTURE

A pillar of the economy and source of livelihood for 2.1 million households (8.6 million persons)



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ACKNOWLEDGMENTS...

- With thanks to the Royal Government of Cambodia, FAO and the donors and the millions of households, thousands of enumerators and hundreds of staff involved in the planning, implementation and analysis of the agricultural census.
- While the main task in collecting and reporting the data is completed, there is much to be done in terms of learning and acting upon the information now in hand.



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CHALLENGES AND LESSONS LEARNT

Challenges:

- Some urban area were not coverage
- Resources limitation
- Payment by productivity to the enumerators and supervisors
- Selection enumerators followed by the recommendation of donors
- Availability of suitable international consultants is limited
- Some problem affected to date of releasing final results.
- Getting difficulties to the large Agriculture of holding/Enterprise.
- Consideration some urban area in the agriculture census
- The ability of staff at the National and Sub-national is still limited.

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ROAD A HEAD

- SPARS: IdCA, Draft Roadmap for the Strategic Plan for Rural and Agriculture Statistics
- Strengthening the data collection agriculture and rural statistics, eg. fisheries and aquaculture
- Inter-censal agriculture census 2018, Improving staff capacity on agricultural statistics by doing and on the job training,
- Establish of special survey team have mixed members related.
- NIS needs to Conduct TOT to the NIS/MAFF Staff to be National Consultant in terms of Methodology, Data Analysis, Report writing and ICT development.

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