

Nepal - Pilot Agriculture Integrated Survey, 2019

Central Bureau of Statistics, Ministry of Agriculture and Livestock Development

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Overview

Identification

ID NUMBER

NPL_2019_PAGRIS_v01_EN_M_v01_A_OCS

Overview

ABSTRACT

The Ministry of Agriculture and Livestock Development (MoALD), and the Central Bureau of Statistics (CBS), with technical and financial assistance of FAO, have jointly conducted a pilot survey in the framework of AGRIS Program in Chitwan district with its affluence of agricultural diversity. It has adopted Production Method and Environment (PME) Module as rotating module along with Core Module for the pilot study as developed by FAO. Along with the piloting of the AGRISurvey Program initiated by FAO, the objective of the survey is to measure key indicators related to area and volume of agriculture production capturing the social, economic and technical dimensions of the holdings as well as providing data to monitor some farm-based indicators of Sustainable Development Goals. The statistical unit of the survey is agriculture holdings satisfying the certain specified conditions. The survey has adopted a dual approach of taking both types of agriculture activities-registered (as commercial farming) and non-registered activities operated in household and non-household sectors. Information on the household sector is collected through a representative sample of agricultural households selected with a stratified two-stage sampling design whereas a stratified simple random sample of non-household farms is selected and interviewed. The result is the outcome of collaborative efforts of all the stakeholders involved in the survey. The AGRISurvey program promotes the adoption of an integrated and modular approach, namely the AGRIS method, developed under the Global Strategy for the Improvement of Agricultural and Rural Statistics (GSARS).

KIND OF DATA

Sample survey data [ssd]

UNITS OF ANALYSIS

Agricultural holdings

Scope

NOTES

The scope of the Pilot Agricultural Integrated Survey (PAGRIS) includes:

Identification and general characteristics of the holding, characteristics of the holders and managers, agricultural productions-crops, livestock, production methods, fishery, agroforestry, household income other than agriculture, access to information, production shocks by disasters and weather extremes and coping mechanisms, farm labor, housing dwelling and assets, crop production methods, livestock production methods, agroforestry, access to and use of information services, infrastructure and communal resources, greenhouse gas and environmental issues, adaptation to climate change and mitigation strategies and waste management.

TOPICS

Topic	Vocabulary	URI
Agriculture & Rural Development	World Bank	
Food (production, crisis)	World Bank	
Environment	World Bank	

KEYWORDS

Agriculture, AGRIS, AGRISurvey, Production methods, Core module, PME module, Pilot Agriculture Survey, PAGRIS

Coverage

GEOGRAPHIC COVERAGE

The survey provides representative data at district and municipality level for Chitwan district and Khairahani municipality of the Chitwan district.

UNIVERSE

The survey covers both commercial and non-commercial agriculture holdings in Chitwan district.

Producers and Sponsors

PRIMARY INVESTIGATOR(S)

Name	Affiliation
Central Bureau of Statistics	Government of Nepal
Ministry of Agriculture and Livestock Development	Government of Nepal

OTHER PRODUCER(S)

Name	Affiliation	Role
Statistics Office, Chitwan	CBS	Field operation
Agriculture Knowledge Centre, Chitwan	MoALD	Field operation

FUNDING

Name	Abbreviation	Role
Food and Agriculture Organization of United Nations	FAO	Financial and technical support
Bill and Melinda Gates Foundation	BMGF	Financial support
Italian Cooperation	Italy	Financial support

Metadata Production

METADATA PRODUCED BY

Name	Abbreviation	Affiliation	Role
Office of Chief Statistician	OCS	Food and Agriculture Organization	Metadata adapted for FAM
Central Bureau of Statistics	CBS	Government of Nepal	Metadata producer

DDI DOCUMENT VERSION

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Sampling

Sampling Procedure

In the framework of the Agriculture Integrated Survey (AGRISurvey) programme, the pilot agricultural survey covers agricultural holdings in both household and non-household sectors in the district of Chitwan. At the same time, one of the local units (Khairahani Municipality) is also taken as a separate domain to produce estimates at local level. The Khairahani Municipality is one of the seven Palikas (local Governments) in the Chitwan district.

Information on the household sector was collected through a representative sample of agricultural households selected with a stratified two-stage sampling design. The sampling frame of the primary sampling units (enumeration areas) was developed with stratification information using data from the Nepal Population Census 2011. Listing operations were implemented in the selected EAs for selecting a sample of agricultural households (secondary sampling units).

The survey also has interest on commercial agricultural holdings that comprise by definition all non-household farms. As most of these farms are registered in professional and government agencies, related registers were used as primary source to build a sampling frame that was further updated through field operations. A stratified simple random sample of commercial farms were selected and interviewed.

The pilot survey was aimed to produce reliable estimations at the district level as well as for Khairahani municipality in particular at local level. The observations are the agricultural holdings as recommended and defined by FAO. The final sampling units are the agricultural households in the households' sector and the registered commercial farms in the non-household sector.

Questionnaires

Overview

Listing Form containing structured items with preliminary information such as name of holder, address, contact number, area cultivated, number of livestock and poultry raised and so on was administered for listing the agriculture holdings within the predefined criteria. Questionnaire in Nepali Language comprising Core Module and Production Method and Environment (PME) Module was administered for capturing the detailed information on agricultural activities of the both commercial and non-commercial holdings. The questionnaire is based on the standard model recommended by AGRISurvey Program of the Food and Agriculture Organization (FAO). It was modified to address the Nepalese context as per the series of stakeholders' meetings.

The questionnaire has eight sections: seven under Core Module and one under PME Module. The Survey Questionnaire with Core Module contains the items like holding identification, demographic information (for non-commercial holding), land use and land tenure, area of cultivation and crop production, status of irrigation, use of agricultural inputs, employment status, current and capital expenses of holding and source of information for agricultural activities and so on. The PME Module contains the items like source of energy used by holding, livestock production method, organic manure management practices, access and use of information, infrastructure and public resources by the holding, solid waste management practices, strategies to cope with the effect of natural disasters and climate change and so on. The questionnaire and the listing forms administered in the survey are provided as external resources in the documentation section.

Data Collection

Data Collection Dates

Start	End	Cycle
2019-10-01	2019-11-29	N/A

Data Collection Mode

Computer Assisted Personal Interview [capi]

Data Collection Notes

Pretesting of data collection tools, participatory and interactive training program, half-day field test program were carried out for building the confidence among the participants and improving the data quality.

A 3-Day Master Training of Trainers (MTOT) was held for the trainers to be involved in the enumerator's training and central level supervision to familiarize them on the agendas of data collection, its tools and quality enhancement. A 7-Day enumerator's training was held to train them on the agendas of data collection, its tools and quality enhancement.

4 enumeration supervisors and 16 enumerators were involved in the fieldwork to collect the data through Core Module and PME Module supported by CAPI technology. Data collection took place over a period of about 8 weeks from October 1, 2019 until November 30, 2019. It took averaged 2 hours to fill a questionnaire. Mode of interview was Nepali as the selected enumeration areas were predominantly Nepali-speaking area.

Central level as well District level supportive supervision was carried out to enhance the data quality. CAPI experts regularly monitored the fieldwork to support the enumerators on their technical problems. Local Representatives supported the field-staffs to identify the enumeration area and then accomplish the fieldwork.

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Data Processing

Data Editing

The enumeration of the Pilot Agriculture Integrated Survey was conducted by CBS using tablets with CSPro version as a CAPI method of choice. The supervisors were collected the filled-up questionnaires from enumerators using CAPIs in a flash drive in every second day and send to CBS through email and Dropbox. The IT staff in CBS was responsible for compiling and managing the filled-up questionnaires received from the supervisors from the field. The supervisors were allowed to send the collected information to the IT staff in CBS after ensuring the completion of the questionnaires and thoroughly reviewing all the information captured in the tablet. Data processing system was centralized in this survey. In this survey, IT staff in CBS had more advantage of accessing the data immediately. If any inconsistencies were found in data it was informed immediately to the field team so that field staff could confirm the issues before leaving the EA.

Data Appraisal

No content available