



Republic of the Philippines

Philippine Statistics Authority

Updates of Activities for the Philippines in 2014

2nd Joint Workshop “Strengthening Agricultural Market Information in Thailand and the Philippines” (MTF/RAS/359/JPN)

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Philippines 2014 Work Program

1. Crop Cutting Survey

- Objective measurement of yield of palay/rice

2. In-depth analysis of rice production/area survey data

- Data focused quality controls (standard errors, CV)
- To review the full survey methodology and operational plan (2015)

3. Household stocking survey

- To contribute and learn from the “stocking pattern” for farm and non-farm households



4. Commercial stocks survey

- To support the dissemination of the 2014 survey results
- To engage a user/producer dialogue

5. Supply utilization accounts (SUA)

- To follow-up on the on-going work on SUA/FBS (FAO Project TCP/RAS/3409)
- To improve the quality/harmonization of input data



PILOT CROP CUTTING SURVEY

Major Activities Undertaken

Kick-off meeting – June 23, 2014

- FAO Consultants
- PSA Project Team
- Workplan
 1. Preparatory activities for the conduct of survey
 2. Conduct of pilot crop cutting
 3. Data processing
 4. Submission of output



1. Preparatory Activities for the Conduct of Survey

- Conducted two (2) field visits
- Drafted, finalized data collection forms and manual of operations
- Prepared excel-based data entry template



Data Collection Forms

Form A – List of Palay Households

Form B – Identification and Location of Sample Units for Crop Cutting

Form C – Crop Cutting Record

Form D – Identification and Location of Sample Units for Harvesting Lost

Form E – Uncultivated Area Survey Measurement

Form F – Laboratory Determinations



Technical Manual

1. Introduction
2. Survey Objectives
3. Methodology
 - 3.1 Five (5) Major Steps
 - 3.2 Three (3) Major Operations
 - 3.3 Conceptual Framework
 - 3.4 Sample Selection Procedure
 - 3.5 Crop Cutting Procedure
 - 3.6 Harvesting Loss Survey
 - 3.7 Uncultivated Area Survey
 - 3.8 Yield Estimation Procedure
4. Office Works



Enumerator's Manual

1. Introduction
2. Objectives of the Manual
3. Crop Cutting Operations
4. Harvesting Loss Operation
5. Uncultivated Area Measurement
6. Equipment
7. Key Definitions
8. Survey Record Forms
 - 8.1 Crop Cutting Survey (Form A-C)
 - 8.2 Harvesting Loss Survey (Form D)
 - 8.3 Uncultivated Area Survey (Form E)



2. Conduct of Pilot Crop Cutting

- Training of field staff
- Crop cutting activities
- Collection of left-over grains/harvesting loss
- Threshing and cleaning
- Weighing and recording



3. Data Processing

- Excel-based data template
- Data encoding Tables 1 – 6
- Output generation



Survey Results

1. Paddy final (adjusted) yield estimate in the pilot areas (Nueva Vizcaya) and Pampanga) = 4.62 tons/ha
2. Coefficient of variation (CV) = 1.28 percent
3. Estimated proportion of harvesting loss = 0.0151 or 1.51%
4. Estimated proportion of uncultivated areas in the paddy field = 0.0457 or 4.57%



5. Comparison between the yield obtained from crop cutting with the previous yield estimate in the same area

Interview (Jan-Dec 2013)		Crop Cutting (July 2014)
Nueva Vizcaya (40%)	4.47 tons/ha	-
Pampanga (60%)	4.72 tons/ha	-
Weighted Average	4.62 tons/ha	4.68 tons/ha



6. Comparison of harvesting loss by Province and Harvesting Method

Province	Harvesting Loss (in kg/ha)		Average
	Sickel	Combine	
Nueva Vizcaya (6 Households)	51.84	-	51.84
Pampanga (5 Households)	-	104.93	104.93
Average	51.84	104.93	75.97



Recommendations

1. More sample villages (at least 20 per province)
2. Utilize local farmers as enumerator
3. For harvesting loss survey, sample units have to be big enough
4. For uncultivated area survey, carry out by permanent staff of POCs
5. Conduct data review by POC staff and look for outliers
6. Consider survey cost and survey management in evaluation



Future Directions

All activities in the work program (2014) should be included in the research and development plan for 2015.

1. Crop Cutting Activities

- Expand coverage to two (2) major producing provinces each in Luzon, Visayas, Mindanao

2. In-depth analysis of rice production/area survey data

- Hire consultant for “mentoring” on CV calculation
- Hire specialized consultant to assist in the improvement of survey design



3. Household stocking survey

- Provide the consultants relevant information on methodologies and results of the project
- Check on good practice on the use of record keeping

4. Commercial stock survey

- Support dissemination of survey results
- Engage a user/producer forum on the relevance of survey outputs and methodology

5. Supply Utilization Accounts (SUA)

- Updating of parameters on processing (food and non-food use)