

Monthly Palay and Corn Situation Reporting System

Manual of Operations



PHILIPPINE STATISTICS AUTHORITY
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April 2016

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1. INTRODUCTION

1.1. Overview

The data gathered from the Palay and Corn Production Survey (PCPS) include actual harvests for the current period and the forecast for the next quarters ahead based on standing crops and planting intention. Forecast data are subject to changes depending on weather conditions, input and output, prices and other factors which contribute largely to the deviations of the actual data from the early forecasts. Therefore, a close monitoring of crop growing conditions and actual plantings is conducted through the Monthly Palay and Corn Situation Reporting System (MPCSRs).

The then Bureau of Agricultural Statistics (BAS), which is now a part of the Philippine Statistics Authority (PSA), has been monitoring palay and corn situation through MPCSRs since 1991. The MPCSRs is conducted monthly, in between PCPS rounds. It covers samples from one (1) replicate of the PCPS. The data gathered include updates on standing crop, actual plantings and crop damages. In the event of unusual factors affecting the crop situation in the province during the reference period, Provincial Statistics Officers (PSOs) take the initiative to include crop damages in their report.

In order to provide more reliable updates on the standing crop and actual plantings, improvements were introduced in the design of the MPCSRs with respect to the data collection schedule, coverage, data items, questionnaire layout, estimations and data processing. These enhancements were enforced starting February 2009.

1.2. Objective

The MPCSRs primarily aims to:

- update the estimate of the current quarter based on standing crop and forecast for the next quarter ahead, based on planting intentions; and
- provide monthly updates on area and production of palay and corn across the country.

1.3. Coverage

Under the enhanced MPCSRs, the number of sample barangays is pre-determined in the province using one replicate of the PCPS as samples, such that:

- For pure palay provinces, 10 sample barangays are taken from the Palay Production Survey (PPS) samples.
- For pure corn provinces, 10 sample barangays are taken from the Corn Production Survey (CPS) samples.
- For overlap, that is, palay and corn provinces, five (5) sample barangays are taken from the PPS samples and another five (5) sample barangays are taken from the CPS samples, yielding only one (1) set of sample barangays for the province.
- For minor palay or corn provinces, five (5) sample barangays are taken as samples.

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- For non-corn provinces, the PPS sample barangays are taken as samples for the MPCSRs.

All sample households in the sample barangays are enumerated.

2. SAMPLING METHODOLOGY

The sampling design and estimation follows the procedure used for the PCPS. Kindly refer to the PCPS Manual of Operations for a detailed discussion of the sampling design and estimations.

3. SURVEY OPERATION PROCEDURES

3.1. Data Collection

The Statistical Researchers (SR) will conduct the survey through personal interview using a structured questionnaire. They will be closely supervised by the permanent field personnel who will serve as Field Supervisors (FS). The FS must see to it that SR understand the concepts, definitions and procedures before sending them out for actual operation (through proper re-orientation and training).

Data are collected monthly in between PCPS rounds as shown below:

Data Collection	Cut-off Date	Submission to Central Office	Uploading of Report to PSA Website
Feb 1-5	Jan 31	Not later than the 18 th of the reporting month	On or before the 10 th day of the following month
March 1-5	Feb 28		
May 1-5	Apr 30		
June 1-5	May 31		
Aug 1-5	Jul 31		
Sept 1-5	Aug 31		
Nov 1-5	Oct 31		

3.2. Field Processing of Survey Returns

Survey returns shall be edited and processed using the MPCSRs processing system which was developed using the Census and Survey Processing System (CSPro) software. The processing includes encoding of the data from the survey questionnaires, computerized editing, completeness check and generation of output tables.

3.3. Submission of Provincial Reports

Upon completion of field processing and review of the initial provincial estimates, the PSO shall send the softcopies of the provincial data to the Regional Statistical Services Office (RSSO) and Central Office through the Crops Statistics Division (CSD). Softcopies of clean data file are in turn submitted to Systems Development Division (SDD).

3.4. Central Office Review and Report Writing

The CSD shall review the provincial results and then process the report using Microsoft Excel. Properly processed reports shall then be tabulated and included in the formulation of national estimates.

A written report on the analysis shall be prepared and submitted to the Office of the Assistant National Statistician/Deputy National Statistician for review and approval. The final report shall be prepared and submitted to the Office of the National Statistician. The report shall then be uploaded to the PSA website for clientele/researchers.

4. INSTRUCTIONS IN FILLING OUT THE QUESTIONNAIRE

Reporting Month – specify the month when the report is being made.

Sheet ____ of ____ sheets – refers to the sequence of questionnaire sheets used for the sample households in the sample barangay. A questionnaire can accommodate information on five (5) sample households. Thus, if the sample barangay has, say, 21 samples, five (5) questionnaires will be used and these should be sequenced as follows:

First set of five households – Sheet 1 of 5 sheets
Second set of five households – Sheet 2 of 5 sheets
Third set of five households – Sheet 3 of 5 sheets
Fourth set of five households – Sheet 4 of 5 sheets
Last household – Sheet 5 of 5 sheets

4.1. BLOCK A – SAMPLE IDENTIFICATION

For items 1 to 4, copy from the list of samples the appropriate names and codes for the region, province, municipality and barangay. For items 5 and 6, copy the stratum and replicate numbers on the appropriate boxes. For item 7, write the reference quarter on the space provided.

4.2. BLOCK B – UPDATE ON THE CURRENT QUARTER AREA AND PRODUCTION OF STANDING CROP/PLANTING INTENTIONS

Column 1 - Line Number – this item is for control purposes. Write only one line number for every sample household enumerated, even if it operates more than one (1) agricultural land. Note that the line numbering follows a consecutive series starting from 1.

Column 2 - Household Code – enter the same household code from the PCPS.

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Column 3 - Complete Name of Sample Agricultural Operator – copy the complete name of the sample agricultural operator from the list of samples on the space provided, following the last name, first name format.

Column 4 - Sample Status – this column seeks to obtain information on the status of the sample household during the survey period, which should be determined by both the SR and the FS. Indicate the appropriate code. The code definitions are as follow:

Code 10 - Palay/Corn Household – the sample household operates an agricultural land, whole or part of which is palay/corn area, within the nine (9) month period. The sample household must have a harvest during reference quarter, or has standing crops in its farms, or intends to plant palay/corn within the succeeding quarter. Specifically, any of the following conditions must be satisfied:

- household harvested palay/corn during the reference quarter;
- household has standing crops in its farm; or
- household intends to plant palay within the succeeding quarter.

Code 20 - Non-Palay/Non-Corn Household – two (2) specific cases fall under this category:

- household operates an agricultural land which is not intended for/devoted to palay/corn, i.e., zero palay/corn production for the reference quarter, zero standing crop and/or no intention of planting; and/or
- household also does not operate an agricultural land, e.g., agricultural operator dies/gives up agricultural operation, and/or nobody within the same household takes over.

Code 60 - Refused to be interviewed – this is the case wherein the respondent does not want to provide any information at all.

Code 71 - Temporarily away/on vacation/not at home – this includes households which are temporarily away and are not expected to be back within the survey period. Also included are households found to have no qualified respondent to be interviewed after several call backs.

Code 72 - Temporarily not accessible – this includes households which cannot be reached during survey period, as data collectors are being hampered by temporary situations such as peace and order, roads closed due to damaged caused by a calamity, etc. These households can be visited again when the hindrances are resolved.

Code 73 - Resides in another barangay – this covers households which have moved to another barangay.

Code 74 - Unknown/residence cannot be located – households which cannot be located due to lack of information.

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The SR should be very careful in determining the status of the sample household. It should always be noted that the data to be gathered refer to the entire household and not only to the person identified in the list of samples.

Column 5 - First Name of Respondent – write the name of the respondent during the interview.

4.2.1. BLOCK B.1 – CURRENT QUARTER’S AREA AND PRODUCTION FORECAST BASED ON STANDING CROP

This block refers to the quarter’s forecast data of the recent survey round and the data update based on the indications from the sample farmers’ present crop situation, including the stage of the updated crop. Should there be changes in the latest quarter’s forecast, all plausible reasons should be briefly stated.

Column 6 – Type/s of Ecosystem/Corn Grain – Ask the respondent the type/s of ecosystem/corn grain of the harvested palay/corn during the reference period. Indicate corresponding codes, as defined below:

For Palay

Code 1 – Irrigated – palay grown on this type has irrigation facilities which supply water to the farm through artificial means, like gravity, force/power, pump, etc. A special case, however, is an area with no artificial means but remains moist throughout the year due to its proximity from the source of water, e.g., mountain or river.

Code 2 - Rainfed – palay that are grown on this type has dikes that retain water and is solely dependent upon rainfall for its water supply.

Code 3 - Upland – palay grown on this type does not have amenities for standing water. It is usually located along elevated lands, like river, between hills, hillsides, etc. Though crops planted in this type of ecosystem are drought-resistant and do not require standing water for their normal growth, irrigation by flushing is sometimes practiced to improve the crops’ performance especially during the long dry spell. Upland rice type is confined not only to high places or hillsides but also to low areas having no amenities for standing water.

For Corn

Code 1 – White – corn that are used primarily for human consumption.

Code 2 – Yellow – corn that are used generally as feed grains. It includes all types of corn other than white.

Column 7 - Major type/class of palay seed/corn seed planted – indicate the appropriate code for the major type/class of palay/corn seed planted. The code definitions are as follow:

For Palay

Code 1 - Hybrid – palay variety is the product of cross pollination or the transfer of pollen from the anther of one palay plant to the stigma of another palay plant. Thus, two palay plants are needed to produce its seeds, one serving as the female parent and the other, as male parent. Also called an F1, a hybrid variety exhibits better performance than its parents. Seeds harvested from the F1 hybrid are not recommended for planting in the following season, owing to expected reduction in the quality and quantity of the yield.

Code 2 - Inbred-Certified – inbred palay variety is the product of self-pollination or the transfer of pollen from the anther to the stigma of the same flower. Thus, only one palay plant is needed to produce its seeds. Seeds harvested from an inbred variety can still be used for the next planting season without much reduction in the quality and quantity of the yield, provided rouging is regularly done.

Certified seeds are those produced from the planting of registered seeds by selected farmer-cooperators throughout the country in accordance with the prescribed rules and regulations. This class of seeds passed the standard quality and purity set forth by the seed certifying agency.

Code 3 - Farmers'/Good Seeds – refer to seeds produced from varieties not yet approved by the National Seed Industry Council (NSIC) but met the prescribed standards set by the certifying agency. It can also be any class of seeds that do not conform to the corresponding standards set by the certifying agency.

Code 4 - Traditional/Native – refers to the indigenous varieties. However, this variety does not refer to the traditional varieties as identified by some localities.

For Corn

Code 1 - Hybrid – the result of a repeated process of self-pollination of corn varieties of the same kind, called inbred lines. Different inbred lines are then crossed to produce hybrids. These tend to have extended vigor and produces higher yield.

Code 2 - Modern Open Pollinated Varieties (OPV) – refer to corn seed materials which are grown for a longer period of time and maintained by natural cross pollination from generation to generation. These are purebred strains with seed that can be saved and planted from year to year. Open pollinated varieties will bred true if they are isolated from other varieties, avoiding cross-pollination. They are usually distinguished by their kernel color, kernel shape and other agronomic characteristics.

Code 3 - Native OPV – refer to the indigenous varieties.

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Columns 8 to 12 AREA (Ha.) – area is reported in hectares and recorded in two decimal places. Columns 9 to 11 refers to the stages of harvest. In the context of MPCSRs, it is the updated stage of crop growth as of the reporting month.

Column 8 - Harvested – ask the respondent the cumulative area of the standing crop that was harvested during the reporting month.

Column 9 - Vegetative – ask the respondent on the area planted to palay/corn under vegetative stage. Vegetative stage refers to stage of the crop from planting/transplanting up to the tillering stage (21 to 45 days after crop establishment for palay; 6 to 45 days for corn).

Column 10 - Reproductive – ask the respondent on the area planted to palay/corn under reproductive stage. Reproductive stage refers to stage of the crop from booting to blooming, flowering, heading tasseling, and milking stage (46 to 75 days after crop establishment).

Column 11 - Maturing – ask the respondent on the area planted to palay/corn under maturing stage. Maturing refers to stage of the crop in milking and soft dough stage to ripening grains (76 to 115 days after crop establishment).

Column 12 - Total Area – sum of columns 8 to 11.

Columns 13 to 14 - PRODUCTION (Sack of 50 kg) – refers to the production of the standing crop as of the reporting month. Report production in kilograms and in two decimal places.

Column 13 - Total Production Forecast – refers to the total cumulative production forecast of the standing crop of the last PCPS round. Ask the respondent his/her expected harvest for the current quarter at the time of the interview. Under normal condition, the expected production in the two (2) MPCSRs rounds should be the same. In case reports differ, specify reason/s. Production should be reported in sack 50 kg.

Column 14 - Production of Harvested Crops – refers to the actual production of the crop that was harvested in column 8 during the reporting month.

Column 15 - Reasons for Material Change in Area, Production and Yield – calls for reasons for changes in harvest area, production and yield per hectare during the reference quarter, vis-à-vis last round forecast of the sample farmer.

4.2.2. BLOCK B.2 – UPDATE ON CURRENT QUARTER’S PLANTING INTENTIONS

This block refers to the plantings from the beginning of the quarter up to the 15th day of the survey/reporting month.

Column 16 - Type/s of Ecosystem/Corn Grain – Same as in column 6.

Columns 17 to 20 - ACTUAL PLANTINGS BY STAGE OF CROP GROWTH (Ha) – refers to the updates based on the actual plantings by stage of crop growth during the reporting month.

Column 17 - Vegetative – ask respondent on the area planted to palay/corn under vegetative stage.

Column 18 - Reproductive – Ask respondent on the area planted to palay/corn under reproductive stage.

Column 19 - Maturing - Ask respondent on the area planted to palay/corn under maturing stage.

Column 20 – Total Area – Sum of columns 17 to 19.

Column 21 - Expected Harvest Month – ask the respondent on the expected month of harvest of the crop under maturing stage.

Column 23 – Reasons for Material Change in Area - Calls for plausible explanation for any deviation between the planting intentions and the actual plantings.

4.3. BLOCK C – STATISTICAL RESEARCHER AND PSO IDENTIFICATION

Accomplish this block after completing the interview for the entire barangay. The SR should signify the accomplishment of questionnaire by affixing his name, signature and date. The PSO should also affix his name, signature and date.

APPENDIX



Republic of the Philippines
PHILIPPINE STATISTICS AUTHORITY
Quezon Avenue

Approval No.: PSA-1619
Expires on: 31 March 2017

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MONTHLY PALAY AND CORN SITUATION REPORTING SYSTEM

(Reporting Month)

A. SAMPLE IDENTIFICATION														
1. Region :		3. Municipality:		5. Stratum:		7. Reference Quarter:								
2. Province:		4. Barangay:		6. Replicate:		(Last PCPS round)								
B. UPDATE OF CURRENT QUARTER AREA AND PRODUCTION OF STANDING CROP / PLANTING INTENTIONS														
B.1. CURRENT QUARTER'S AREA AND PRODUCTION BASED ON STANDING CROP														
L i n e No. (EA-HSN)	Household Code	Complete Name of Sample Agricultural Operator (Last name, first name)	* Sample Status (Indicate Code) If Codes 51 to 55, end interview	First Name of Respondent	** Type/s of Ecosystem (Indicate code)	*** Major type/class of palay seed (Indicate code/s)	AREA (Ha)				PRODUCTION (Sack of 50 kg)			Reasons for Material Change in Area, Production
							Harvested	Vegetative Stage	Reproductive Stage	Maturing Stage	Total (Col. 8+Col.9Col.11)	Total Production Forecast	Production of Harvested Crops (Actual)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
1														
2														
3														
4														
5														

*** SAMPLE STATUS**
 10 - Palay Household
 20 - Non - Palay Household
 60 - Refused to be interviewed

**** TYPE OF ECOSYSTEM**
 1 - Irrigated
 2 - Rainfed
 3 - Upland

***** MAJOR TYPE OF PALAY SEED**
 1 - Hybrid
 2 - Inbred - Certified
 3 - Farmers' / Good Seeds

71 - Temporarily away / on vacation / not at home
 72 - Temporarily not accessible
 73 - Resides in another barangay
 74 - Unknown / Residence cannot be located

Reasons for Material Change in Area

Date:



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MONTHLY PALAY AND CORN SITUATION REPORTING SYSTEM

(Reporting Month)

A. SAMPLE IDENTIFICATION

1. Region : 3. Municipality: 5. Stratum: 7. Reference Quarter:
2. Province: 4. Barangay: 6. Replicate: (Last PCPS round)

B. UPDATE OF CURRENT QUARTER AREA AND PRODUCTION OF STANDING CROP / PLANTING INTENTIONS

Line No.	Household Code (EA-HSN)	Complete Name of Sample Agricultural Operator (Last name, first name)	* Sample Status (Indicate Code) If Codes 51 to 55, end interview	First Name of Respondent	B.1. CURRENT QUARTER'S AREA AND PRODUCTION BASED ON STANDING CROP				AREA (Ha)			PRODUCTION (Sack of 50 kg)		Reasons for Material Change in Area, Production
					** Types of Corn Grain (Indicate code)	*** Major type/class of corn seed (Indicate code/s)	Harvested	Vegetative Stage	Reproductive Stage	Maturing Stage	Total (Col. 8+Col.9 Col.11)	Total Production Forecast	Production of Harvested Crops (Actual)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
1														
2														
3														
4														
5														

* SAMPLE STATUS

- 10 - Corn Household
20 - Non - Corn Household
60 - Refused to be interviewed

- 71 - Temporarily away / on vacation / not at home
72 - Temporarily not accessible
73 - Resides in another barangay

- 74 - Unknown / Residence cannot be located

- ** TYPE OF CORN GRAIN
1 - White
2 - Yellow

- *** MAJOR TYPE OF CORN SEED
1 - Hybrid
2 - Modern OPV
3 - Native OPV

Item	Last Quarter's Forecast	UPDATED QUARTERS FORECAST											Reason/s for Changes in Quarter's Forecast (Col. 8 vs Col. 2)				
		R D R					P D R										
		Total	Harvested	Vegetative Stage	Reproductive Stage	Maturing Stage	Total	Harvested	Vegetative Stage	Reproductive Stage	Maturing Stage						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Yield per Ha. (MT)																	
Hybrid																	
Inbred-Certified																	
Farmers'/Good Seeds																	
Traditional/Native																	
Irrigated																	
Hybrid																	
Inbred-Certified																	
Farmers'/Good Seeds																	
Traditional/Native																	
Rainfed																	
Hybrid																	
Inbred-Certified																	
Farmers'/Good Seeds																	
Traditional/Native																	
Upland																	
Inbred-Certified																	
Farmers'/Good Seeds																	
Traditional/Native																	

* For damaged crop, submit corresponding damage report

B. COMPARISON OF PRESENT PLANTINGS AND LAST QUARTERS PLANTING INTENTIONS

Item	Last Quarter's Planting Intentions	ACTUAL PLANTINGS (Ha)														Reason/s for Changes in Quarter's Forecast (Col. 8 vs Col. 2)	
		R D R							P D R								
		Stages of Crop Growth			TOTAL	Expected Month of Harvest	Stage of Crop Growth			TOTAL	Expected Month of Harvest	Stage of Crop Growth					
		Vegetative	Reproductive	Maturing			Vegetative	Reproductive	Maturing			Vegetative	Reproductive	Maturing			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
PALAY																	
Irrigated																	
Rainfed																	
Upland																	

Vegetative - planting/transplanting and tillering stage
Reproductive - booting to blooming/heading stage
Maturing - Milk, dough and ripening stage

Prepared by: _____
NOTED: _____ PSO
Date: _____

Item	Last Quarter's Forecast	UPDATED QUARTERS FORECAST															Reason/s for Changes in Quarter's Forecast (Col. 3 and 8 vs Col. 2)
		R D R						P D R						Survey Result			
		Total	Harvested	Vegetative Stage	Reproductive Stage	Maturing Stage	Total	Harvested	Vegetative Stage	Reproductive Stage	Maturing Stage	Total	Harvested	Vegetative Stage	Reproductive Stage	Maturing Stage	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Yield per Ha. (MT)																	
	Hybrid																
	Modern OPV																
	Native OPV																
	White																
	Hybrid																
	Modern OPV																
	Native OPV																
	Yellow																
	Hybrid																
Modern OPV																	
Native OPV																	

* For damaged crop, submit corresponding damage report

B. COMPARISON OF PRESENT PLANTINGS AND LAST QUARTER'S PLANTING INTENTIONS																		
ITEM	Last Quarter's Planting Intentions	ACTUAL PLANTINGS (Ha)																Reason/s for Changes in Quarter's Forecast (Col. 3 and 8 vs Col. 2)
		R D R						P D R						Survey Result				
		TOTAL	Stages of Crop Growth			Expected Harvest Month	TOTAL	Stages of Crop Growth			Expected Harvest Month	TOTAL	Stage of Crop Growth			Expected Harvest Month		
			Vegetative	Reproductive	Maturing			Vegetative	Reproductive	Maturing			Vegetative	Reproductive	Maturing			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	
CORN																		
White																		
Yellow																		
Vegetative - planting/transplanting and tillering stage Reproductive - booting to blooming/assailing stage Maturing - Milk, dough and ripening stage																		

Prepared by: _____

NOTED: _____

Date: _____

PSO



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www.agstat.psa.gov.ph