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PHILIPPINE STATISTICS AUTHORITY

# **Palay Production Survey**

## **Manual of Operations for Supervisors**

April 2017

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## 1. Introduction

The Palay Production Survey (PPS) is one of the major agricultural surveys conducted by the Philippine Statistics Authority (PSA). This generates estimates and forecasts on palay production, area and yield and other production-related data that serve as inputs for policy making and programs on palay/rice. It is one of the two modules of the PCPS, the other one being the Corn Production Survey (CPS).

The data generated from this survey are disseminated through special releases, bulletin and publications, namely:

- Special release (quarterly)
  - Rice & Corn Situation & Outlook
  - Seasonally Adjusted Rice Production & Prices
- Bulletin (quarterly)
  - Rice & Corn Quarterly Bulletin
- Publication (annual)
  - Palay Production in the Philippines
  - Crops Statistics of the Philippines

The supervisors play a significant role on the success of the survey since they are responsible on the performance of the statistical researchers and personnel in their respective areas of assignment. It is essential that the supervisor adhere to the prescribed procedures and duties stated in this manual.

This manual aims to provide the supervisors information about the survey, their role as supervisors and guide them to solve problems encountered during field operations. This will guarantee effective implementation of the survey that will ensure the generation of timely and quality data for palay.

## 2. The Palay Production Survey (PPS)

The PPS is a quarterly survey which covers sample farming households in sample barangays in 79 provinces except Batanes and includes Zamboanga City and Davao City. This employ replicated two-stage stratified sampling design with the barangay as the primary sampling unit (psu) and farming household as the secondary sampling unit (ssu). The barangays are stratified based on their palay area and are selected using probability proportional to size, (pps) scheme. Four replicates, four independent sets of sample barangays per stratum are drawn. From the selected barangays, households were drawn through systematic sampling.

The data gathered in this survey are as follows: production, area planted/harvested and yield by ecosystem and seed type; usage of seeds, fertilizer and pesticides; source of irrigation water and adequacy, monthly distribution of production and area harvested; farm household disposition of production; area with standing crop, farmer's planting intention for the quarter; and awareness and availment of rice program interventions.

The reference period for each survey round is shown below:

<b>Survey Round</b>	<b>Reference Period</b>
April Round	January to March
July Round	April to June
October Round	July-September
January Round	October-December

Data collection is scheduled on the first ten days of the month following the reference quarter, i.e., April for Q1, July for Q2 and October for Q3. To comply with the Philippine System of National Accounts calendar, data collection for Q4 is done during the first ten days of December.

### **3. Survey Methodology**

#### **3.1 Sampling Frame**

The 1991 Census of Agriculture and Fisheries (CAF) provides the primary basis for the sampling frame for the PPS. Except for Isabela, Laguna and Bukidnon where the traditional complete enumeration strategy was employed, the 1991 CAF used sampling techniques for selecting the primary sampling units (the barangays) for these three provinces.

The largest barangay in a municipality was taken with certainty while a one in two sampling rate was used in selecting the remaining barangays in the municipality. This scheme effectively resulted in the generation of two sub-universes: a sub-universe of barangays with probability of selection equal to 1.0 and another sub-universe of barangays with probability of selection equal to 0.5. This characteristic of the 1991 CAF is considered in the sampling design for the PPS.

Updating of frame on the list of agricultural households in the same sample barangays were generated through interview of key informants in 2007 and 2011 in order to get a precise estimate.

#### **3.2 Sampling Design**

The domain of the survey is the province. A two-stage stratified sampling design is used. The psu is the barangay which is selected using pps sampling. The farming household, systematically selected, serves as the ssu. To provide ease and flexibility in estimation, rotation of samples, etc., a replicated sampling design is instituted. The complete design includes four (4) independent sets of sample replicates (Figure 1).

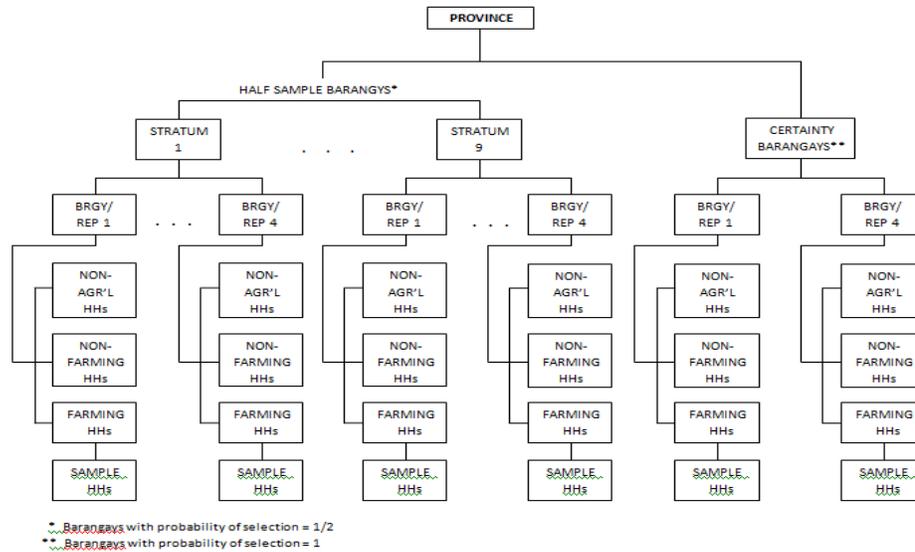


Figure 1. Schematic Diagram of the sampling Design for the Palay Production Survey

### 3.2.1 First Stage (Primary) Sampling Unit Selection

A general feature of the sampling design used for the survey is the division of primary sampling units into strata of approximately equal sizes relative to total farm area devoted to palay. Considering, however, that the 1991 CAF effectively curved out two sub-universes, the division of the barangays within the province was effected as follows:

All barangays with probability of selection equal to 1.0 (certainty barangays) were first lumped into one stratum (generally, it is the 10<sup>th</sup> stratum). The remaining barangays (those with probability of selection equal to 0.5) were then divided into nine strata such that the aggregate palay farm area of all the barangays constituting any one stratum was approximately of the same magnitude with the rest of the individual strata. To compensate for the unlisted barangays in the 1991 CAF and to have an estimate of the palay farm area in the province, this aggregate area was doubled for provinces with half-listed strata. Using the estimated area to devoted to palay as the estimated size of the barangay, a pps sample of four (4) independent barangays

were selected from each stratum. Each sample barangay represents the  $i^{\text{th}}$  replicate sample for that stratum.<sup>1</sup>

The number of sample barangays for each province varies based on palay production. The provinces were classified in two (2) groups covering a predetermined number of sample barangay as follows:

Classification	No. of Sample Barangays
Major palay producing provinces	20
Minor palay producing provinces	10

### 3.2.2 Second Stage (Secondary) Sampling Unit Selection

Households in each sample barangay were categorized as either farming or non-farming based on the following definitions:

**Household** – a person or a group of person who sleeps under the same dwelling unit and usually has a common arrangement in the preparation and consumption of food. The household members may not necessarily be related by ties of kinship, although they are usually relatives. In some instances, more than one household may occupy the same dwelling unit.

**Operator** – a person who takes the technical, financial and administrative responsibility in managing the farm, including the management and supervision of hired labor; he may work on the land himself or may employ others to work on the land. He may or may not be the owner of the land.

**Farm** – a parcel or parcels of land which has a total land area of at least 1,000 square meters (one-tenth of a hectare) used for agricultural purposes.

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<sup>1</sup> The original four replicates per province have been reduced due to budgetary considerations. The current set of samples covers two replicates per province.

**Parcel** – one contiguous piece of land under one form of tenure without regard to land use. Both the contiguity and one form of tenure conditions should be met for a piece of land to be classified as one parcel. Contiguous means that the piece of land is not separated by natural or man-made boundaries such as river, dike, and road that are not part of the holding. A parcel may be surrounded by other lands, water, road, forest or other features that are not part of the holding or part of the holding under different land tenure. A parcel may consist of one or more fields or plots adjacent to each other.

**Agricultural household** – any household in which a member operates an agricultural land either a “Farming Household” or “Non-Farming household”.

**Farming household** – any household in which a member operates an agricultural land, either solely or jointly with other members, and the aggregate area operated by the operator-members of such household qualifies to be called a farm.

**Non-farming household** – any household in which a member operates an agricultural land, either solely or jointly with other members, and the aggregate area operated by the operator-members of such household does not qualify as a farm.

**Non-agricultural household** – any household in which none of the members operates any agricultural land.

**Palay Household** - the sample household operates an agricultural land, whole or part of which is palay area within the nine-month period, or the land is temporarily in-fallow but the respondent declares that it is devoted to palay production. Specifically, any of the following conditions must be satisfied:

Nine-month period

- a) Household harvested palay during refence quarter;
- b) Household has standing palay crop in the farm as of the last day of the reference quarter that is expected to be harvested during the next five months;
- c) Household intends to plant palay anytime in the succeeding quarter; and
- d) The land is temporarily in-fallow but the respondent declares that it is devoted to palay production.

**Non-palay household** - household operates an agricultural land which is not intended for/devoted to palay production, i.e., zero palay production, no standing palay crop and planting intention.

For this survey, the selection of sample households has been limited to the group categorized as **farming households**. The number of sample households drawn for each sample barangay varies. The initial size of sample households is determined using the general formula:

$$n_{ijk} = \frac{1}{b_{ij}} \cdot \frac{P_{ij}}{P_{ijk}} \cdot \frac{N_{ijk}}{Rk_i}$$

where:

- $N_{ijk}$  - total number of farming households in the  $k^{th}$  sample barangay in the  $j^{th}$  stratum of the  $i^{th}$  province
- $Rk_i$  - uniform raising (expansion) factor used for the  $i^{th}$  province
- $b_{ij}$  - number of sample barangays in the  $j^{th}$  stratum of the  $i^{th}$  province (4)
- $P_{ijk}$  - palay area of the  $k^{th}$  sample barangay in the  $j^{th}$  stratum of the  $i^{th}$  province
- $P_{ij}$  - aggregate palay area in the  $j^{th}$  stratum of the  $i^{th}$  province

This will result to a self-weighted sampling scheme that will facilitate estimation of the survey characteristics.

The uniform expansion factor  $Rk_i$  for the  $i^{th}$  province used in determining  $n'_{ijk}$  is:

$$Rk_i \text{ (rounded off to the lower 50)} = \frac{1}{b_{i.}} \frac{\overline{P_{i.}}}{\overline{P_{i..}}} \frac{\overline{N_{i..}}}{\overline{n_{i..}}}$$

where:

$\overline{b_{i.}}$  - average number of sample barangays per stratum in the  $i^{th}$  province (4)

$\overline{P_{i.}}$  - average total area planted to palay per stratum in the  $i^{th}$  province,  
or total palay area planted to all strata in the  $i^{th}$  province  
total number of strata in the  $i^{th}$  province

$\overline{P_{i..}}$  - average total area planted to palay per barangay

$\overline{N_{i..}}$  - average number of farming households per barangay

$\overline{n_{i..}}$  - average number of sample farming households per barangay (=10)

For economic reasons, the sample size at the SSU level was set to a minimum of 4 and a maximum of 25 households. The function below will give the final sample size conforming to the sample size limitation.

$$n_{ijk} = \begin{cases} n'_{ijk}, & \text{if } 4 \leq n'_{ijk} \leq 25 \text{ and } N_{ijk} \geq 4 \\ 4, & \text{if } n'_{ijk} < 4 \text{ and } N_{ijk} \geq 4 \\ 25, & \text{if } n'_{ijk} > 25 \text{ and } N_{ijk} \geq 25 \\ N_{ijk}, & \text{if } n'_{ijk} > 25 \text{ and } 4 \leq N_{ijk} \leq 25 \end{cases}$$

The design of the 1991 CAF covered only 50% of the barangays of some municipalities outside the National Capital Region (NCR) and only 10% of the barangays of the cities/municipalities of NCR. To cope up with this and the sample selection procedure, the basic weights for the  $k^{th}$  sample barangay in the  $j^{th}$  stratum of the  $i^{th}$  province are computed as:

$$w'_{ijk} = \begin{cases} \frac{N_{ijk}}{n_{ijk}} & , \text{if certainty stratum} \\ \frac{1}{r} \left( \frac{P_{ij}}{b_{ij}P_{ijk}} \frac{N_{ijk}}{n_{ijk}} \right) & , \text{if non - certainty stratum} \end{cases}$$

where  $r$  is the sampling rate used for the cities/municipalities in the 1991 CAF.

$$r = \begin{cases} 0.50 & , \text{for non - certainty stratum outside NCR} \\ 0.10 & , \text{for non - certainty stratum within NCR} \end{cases}$$

To incorporate the adjustment factor given by the basic weights and to account for unit non-response, the adjusted weight is given as:

$$w_{ijk} = w'_{ijk} A_1$$

where  $A_1$  is the adjustment factor for non-response.

Household weights are encoded together with other household level data. During table generation, weighting adjustment is done to correct for sampling unit non-response due to the following reasons:

- refusal of target respondent or any other knowledgeable household member to be interviewed;
- sample barangay is not accessible during the survey period;
- entire household is temporarily away during the survey operation;
- sample household has transferred residence to another barangay; and
- sample household's residence could not be located / unknown in the sample barangay.

Weighting adjustment is done for each sample barangay, whenever applicable. This is calculated by multiplying the original household weight by the reciprocal of the response rate. Response rate is the ratio of the number of sample households who responded to

the survey (either palay household or non-palay household) to the total number of sample households in the barangay. Calculation of the final weight is done afterwards, by multiplying the adjusted weight by the uniform raising factor  $R_k$ .

### 3.3 Estimation Procedure

#### 3.3.1 Stratum Estimates

Each replicate (represented by the psu) in a stratum will yield an independent estimate that will be used for the stratum. For the  $k^{th}$  barangay/replicate/psu in the  $j^{th}$  stratum of the  $i^{th}$  province, the independent estimate of the total is obtained by the weighted sum of the observations from the sample farming households, given by the equation:

$$X'_{ijk} = w_{ijk} \sum_{l=1}^{n_{ijk}} x_{ijkl}$$

where  $x_{ijkl}$  is the observation from the  $l^{th}$  sample farming household of the  $k^{th}$  sample barangay in the  $j^{th}$  stratum of the  $i^{th}$  province.

The unbiased estimate of the total for the  $j^{th}$  stratum of the  $i^{th}$  province is simply the sum of the independent estimates of the psu, given by the equation:

$$X'_{ij} = \sum_{k=1}^{b_{ij}} X'_{ijk}$$

The variance for the total of the  $j^{th}$  stratum of the  $i^{th}$  province is given by:

$$v(X'_{ij}) = \frac{b_{ij}}{b_{ij} - 1} \sum_{k=1}^{b_{ij}} \left( X'_{ijk} - \frac{X'_{ij}}{b_{ij}} \right)^2 (1 - f_{ij})$$

where  $f_{ij}$  refers to the sampling rate for the barangays in the  $j^{th}$  stratum of the  $i^{th}$  province or  $f_{ij} = \frac{b_{ij}}{B_{ij}}$ , with  $B_{ij}$  denoting the total number of barangays in the  $j^{th}$  stratum of the  $i^{th}$  province.

The equation above for the variance is approximately equal to:

$$v(X'_{ij}) = \frac{b_{ij}}{b_{ij} - 1} \sum_{k=1}^{b_{ij}} \left( X'_{ijk} - \frac{X'_{ij}}{b_{ij}} \right)^2$$

if  $f_{ij} \approx 0$  or if  $b_{ij}$  is very small and  $B_{ij}$  is very large.

### 3.3.2 Provincial Estimates

The estimate of the total for the province is obtained simply by aggregating all the stratum estimates in the province. Hence, the estimate of the total for the  $i^{th}$  province is given by:

$$X'_i = \sum_{j=1}^{S_i} X'_{ij}$$

where  $S_i$  is the total number of strata in the  $i^{th}$  province (domain).

The variance for the total of the  $i^{th}$  province is simply the sum of the stratum variances:

$$v(X'_i) = \sum_{j=1}^{S_i} v(X'_{ij})$$

### **3.3.3 Regional and National Estimates**

Estimates of total for the region and for the whole country, together with their respective variances, are obtained by aggregating relevant provincial estimates (for the region) and aggregating relevant regional estimates (for the whole country).

## **4. Field Operations Procedures**

This section discusses the role of supervisors and the strategies in data collection up to data review and validation to ensure the quality of estimates generated. The role of supervisors and strategies in data collection specified in this manual are common across various PSA surveys.

### **4.1 Role of Supervisors**

1. Conduct orientation training for Statistical Researchers' (SRs).
2. Prepare a documentation of the proceedings of the orientation training.
3. Determine respective assignments of SRs under his/her supervision.
4. Conduct spot-checking of the SRs under his/her supervision.
5. Address problems and gray areas reported by the SRs.
6. Monitor the progress of SRs' work.
7. Perform field editing of accomplished survey returns.
8. Ensure that all sample households in the barangays are interviewed.
9. Prepare narrative report on the progress of work and problems encountered during enumeration.
10. Conduct back-checking of SRs' outputs.
11. Review and validate the survey results.

### **4.2 Data Collection**

The method of data collection of the survey is through face-to-face interview of sample household using a structured questionnaire which is undertaken by hired SRs. The survey will be supervised by Provincial Office (PO) personnel based on their respective municipal coverage.

The Provincial Statistical Officer (PSO) will be the overall supervisor for the province, while the Regional Director (RD) will be the overall supervisor for the region. Selected

Central Office (CO) personnel may also assist in the field supervision especially at the start of the enumeration.

Field supervisors will see to it that the field operation is running smoothly and within schedule. Part of their work is to observe the SRs, make a follow-up, do spot-check on the interviewers, edit and back-check their work especially when incomplete or inconsistent entries are found. They should always be on top of the situation and be able to address problems that may arise within their supervision areas.

The PPS questionnaire consists of nine (9) blocks as follows:

- Block A. Sample Identification;
- Block B. Sample Particulars;
- Block C. Information on Palay Harvested;
- Block D. Palay Production Disposition;
- Block E. Palay Production Forecast;
- Block F. Palay Planting Intentions;
- Block G. Respondent’s Assessment of the Household Palay Production;
- Block H. Farmer’s Participation in Rice Program; and
- Block I. Statistical Researcher, Supervisor, PSO and Encoder Identification.

Detailed instructions in data collection and filling-out of the questionnaire are discussed in the Manual of Operations for SRs.

**Block A. Sample Identification**

This block of the questionnaire provides a unique identification of the sample such as the name of the region, province, city/municipality, barangay. It also contains the stratum, replicate, household weight and household code.

<b>A. SAMPLE IDENTIFICATION</b>									
1. Region _____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	5. Stratum . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2. Province _____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	6. Replicate . . . . .	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3. Municipality _____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	7. Household weight _____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4. Barangay _____	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	8. Household code (EA - HSN)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Block B. Sample Particulars**

This block contains the complete name of sample operator; sample status; name of respondent; respondent's classification; and informants' information. Items 5 and 6 of this block are information on total agricultural area and total palay farm area, respectively. It also contains spaces where information on the result of visit, as well as the names and classification of the respondent or informant will be indicated.

<b>B. SAMPLE PARTICULARS</b>	
1. Name of agricultural operator _____ <i>(Complete name)</i>	_____ <i>(Last name)</i> _____ <i>(First name)</i> _____ <i>(M.I.)</i>
2. Sample status <i>(Encircle code)</i>	10 - Palay household 20 - Non-palay household <i>(Ask items 3 to 5 then end interview)</i> 30 - Non-agricultural household <i>(Ask item 3 then end interview)</i>
<b>NOTE: This portion is to be accomplished after the interview</b>	
2.1 Result of visit <i>(Encircle code)</i>	2.3 Full name of informant _____
40 - Interview completed	2.4 Designation of informant <i>(Encircle code)</i>
50 - Interview not completed	1 - Barangay/Purok official
60 - Refused to be interviewed	2 - Neighbor
70 - Target respondent not contacted <i>(Ask items 2.2 to 2.4)</i>	3 - Other household member
2.2 Reason for code 70 <i>(Encircle code)</i>	3. First name of respondent _____
71 - Temporarily away/Not at home	4. Respondent's classification <i>(Encircle code)</i>
72 - Area temporarily not accessible	1 - Household head and operator
73 - Resides outside the sample barangay	2 - Operator other than household head
74 - Unknown in the locality	3 - Other knowledgeable member of the household
5. Total agricultural area <i>(ha)</i> _____ . _____	6. Total palay area <i>(ha)</i> _____ . _____

**Block C. Information on Palay Harvested**

**Sub-block C1**

This portion of the questionnaire contains data on the harvested area and quantity of palay harvested by type of ecosystem, seed type, planting method, seeding rate, and irrigation system during the reference period.

**Production-** refers to quantity produced and actually harvested during the reference period. It includes those harvested but damaged, stolen, given away, consumed,

given as harvester's share, reserved etc. Production from seed growers is excluded from the survey.

**Palay Ecosystem** - referring to irrigated, rainfed and upland.

<b>C. INFORMATION ON PALAY HARVESTED</b>				
<b>C1. AREA, PRODUCTION, SEED AND IRRIGATION INFORMATION FOR THE FIRST QUARTER (JANUARY - MARCH 2017)</b>				
1. Did you harvest palay during the period January - March 2017? (Encircle code) 1 - Yes 0 - No, (Go to block E, page 3)				
2. Type of ecosystem (Encircle code/s)		1 - Irrigated	2 - Rainfed	3 - Upland
3. Type of seed planted <sup>a/</sup> (Indicate code)				
4. Area harvested (ha)				
5. Month harvested (Encircle code)		01 - Jan 02 - Feb 03 - Mar	01 - Jan 02 - Feb 03 - Mar	01 - Jan 02 - Feb 03 - Mar
Quantity of dry palay produced (14% moisture content)	6. Total number of units			
	7. Unit of measure			
	8. Weight per unit of measure (kg)			
9. Month planted (Encircle code)		08 - Aug 09 - Sep 10 - Oct 11 - Nov 12 - Dec	08 - Aug 09 - Sep 10 - Oct 11 - Nov 12 - Dec	08 - Aug 09 - Sep 10 - Oct 11 - Nov 12 - Dec
10. Area planted (ha)				
11. Name of the variety planted (Specify local or commercial name)				
12. Method of crop establishment (Encircle code)		1 - Transplanting 2 - Direct seeding	1 - Transplanting 2 - Direct seeding	1 - Transplanting 2 - Direct seeding
Quantity of seeds used	13. Total number of units			
	14. Unit of measure			
	15. Weight per unit of measure (kg)			
Irrigation system	16. Type of irrigation facility <sup>b/</sup> (Indicate code)			
	17. Was the area actually irrigated? (Encircle code)		1 - Yes 0 - No (Go to block C2)	
	18. Adequacy of irrigation water (Encircle code)		1 - Adequate 2 - Inadequate	
<sup>a/</sup> Type of seed planted: 1 - Hybrid 2 - Inbred - Certified 3 - Farmers/Good seeds 4 - Traditional/Native				
<sup>b/</sup> Type of Irrigation facility: 01 - NIS 02 - CIS-NIA 03 - CIS-LGU 04 - CIS-Private 05 - SWIP/SFR (Non-NIA) 06 - SWIP/SFR (NIA) 07 - Pump (Non-NIA) 08 - Pump (NIA) 09 - SDD 10 - Others (Specify)				

### Sub-block C2

This portion pertains to the quantity of fertilizer applied by grade, by ecosystem, to the palay crop (one cropping cycle) that was harvested during the reference quarter. It also includes sections for inorganic fertilizer other than the four major types (Urea, Ammonium Sulphate, Ammonium Phosphate and Complete) and organic fertilizer.

C2. FERTILIZER USAGE FOR THE FIRST QUARTER (JANUARY - MARCH 2017)			Irrigated	Rainfed	Upland
1. Did you apply fertilizer? (Indicate code) 1 - Yes 0 - No (Go to block C3)					
2. Area applied with fertilizer ( ha )			_____ . _____	_____ . _____	_____ . _____
3. Quantity of inorganic fertilizer in bag of 50 kg (Specify type and NPK composition) Ex: Urea ( 46 - 0 - 0 ) Complete ( 14 - 14 - 14 )	3.1	NPK ( ____ _ )	_____ . _____	_____ . _____	_____ . _____
	3.2	NPK ( ____ _ )	_____ . _____	_____ . _____	_____ . _____
	3.3	NPK ( ____ _ )	_____ . _____	_____ . _____	_____ . _____
	3.4	NPK ( ____ _ )	_____ . _____	_____ . _____	_____ . _____
4. Other inorganic fertilizer applied	4.1 <b>Solid</b>	a. Product name			
		b. Fertilizer grade (NPK)	_____ _	_____ _	_____ _
		c. Total number of units applied	_____ . _____	_____ . _____	_____ . _____
		d. Weight per unit (kg)	_____ . _____	_____ . _____	_____ . _____
	4.2 <b>Liquid</b>	a. Product name			
		b. Fertilizer grade (NPK)	_____ _	_____ _	_____ _
		c. Total number of units applied	_____ . _____	_____ . _____	_____ . _____
		d. Volume per unit (liter)	_____ . _____	_____ . _____	_____ . _____
5. Organic fertilizer applied	5.1 <b>Solid</b>	a. Product name			
		b. Fertilizer grade (NPK)	_____ _	_____ _	_____ _
		c. Total number of units applied	_____ . _____	_____ . _____	_____ . _____
		d. Weight per unit (kg)	_____ . _____	_____ . _____	_____ . _____
	5.2 <b>Liquid</b>	a. Product name			
		b. Fertilizer grade (NPK)	_____ _	_____ _	_____ _
		c. Total number of units applied	_____ . _____	_____ . _____	_____ . _____
		d. Volume per unit (liter)	_____ . _____	_____ . _____	_____ . _____

**Sub-block C3**

This portion refers to the pesticides used to control/eradicate insects, weeds and/or pests that were applied to the crop (one cropping cycle) that was harvested during the reference quarter. It contains section for the organic pesticide application if any.

C3. PESTICIDE USAGE FOR THE FIRST QUARTER (JANUARY - MARCH 2017)		Irrigated	Rainfed	Upland	
1. Did you apply pesticide? (Indicate code) 1 - Yes 0 - No (Go to block C4)					
2. Area applied with pesticide (ha)		_____ . _____	_____ . _____	_____ . _____	
3. Pesticide applied	3.1a. Name of pesticide				
	3.1b. Classification <sup>cl</sup> (Indicate code)	_____	_____	_____	
	3.1c. Total number of units applied	_____ . _____	_____ . _____	_____ . _____	
	3.1d. Unit of measure				
	Weight or volume per unit	3.1e. In kilogram (Solid)	_____ . _____	_____ . _____	_____ . _____
		3.1f. In liter (Liquid)	_____ . _____	_____ . _____	_____ . _____
Pesticide applied	3.2a. Name of pesticide				
	3.2b. Classification <sup>cl</sup> (Indicate code)	_____	_____	_____	
	3.2c. Total number of units applied	_____ . _____	_____ . _____	_____ . _____	
	3.2d. Unit of measure				
	Weight or volume per unit	3.2e. In kilogram (Solid)	_____ . _____	_____ . _____	_____ . _____
		3.2f. In liter (Liquid)	_____ . _____	_____ . _____	_____ . _____
Pesticide applied	3.3a. Name of pesticide				
	3.3b. Classification <sup>cl</sup> (Indicate code)	_____	_____	_____	
	3.3c. Total number of units applied	_____ . _____	_____ . _____	_____ . _____	
	3.3d. Unit of measure				
	Weight or volume per unit	3.3e. In kilogram (Solid)	_____ . _____	_____ . _____	_____ . _____
		3.3f. In liter (Liquid)	_____ . _____	_____ . _____	_____ . _____
4. Botanical extracts/spray applied (organic)	4.1a. Name of botanical extracts/spray				
	4.1b. Classification <sup>cl</sup> (Indicate code)	_____	_____	_____	
	4.1c. Total number of units applied	_____ . _____	_____ . _____	_____ . _____	
	4.1d. Unit of measure				
	Weight or volume per unit	4.1e. In kilogram (Solid)	_____ . _____	_____ . _____	_____ . _____
		4.1f. In liter (Liquid)	_____ . _____	_____ . _____	_____ . _____
<sup>cl</sup> Pesticide Classification: 1 - Insecticide 2 - Herbicide 3 - Fungicide 4 - Rodenticide 5 - Molluscicide 6 - Nematocide 7 - Others (Specify)					

**Sub-block C4**

This portion seeks out information whether he/she hired laborers or not, to perform palay operations whether paid in cash or in kind of the crop harvested during the

reference quarter. It pertains to one complete cropping cycle or from planting to harvesting period where some of farm activities other than harvesting may fall prior to the reference quarter.

C4. LABOR INPUTS	Irrigated	Rainfed	Upland
1. During the first quarter, did you hire laborers whether paid in cash or in kind for your palay farm operations? (Indicate code) 1 - Yes 0 - No			

**Block D. Palay Production Disposition**

This block deals with the breakdown of the sample household's utilization and disposition of its total production during the reference quarter. It takes into consideration not only those disposed but also those part of the harvest that is still for disposal.

**Production Disposition** – refers to the breakdown on the volume of palay harvested of the sample household for all types of ecosystems during the reference period which was disposed or to be disposed. Total disposition must equal to the reported volume of palay harvest.

<b>D. PALAY PRODUCTION DISPOSITION</b>			
1. Of your farm's total production (in local unit) for the period JANUARY - MARCH 2017, how many were/will be . . .			
1.01 sold?	_____ . _____	_____ . _____	_____ . _____
1.02 used for household consumption?	_____ . _____	_____ . _____	_____ . _____
1.03 share of landowner?	_____ . _____	_____ . _____	_____ . _____
1.04 paid to farm laborers?	_____ . _____	_____ . _____	_____ . _____
1.05 used for seeds?	_____ . _____	_____ . _____	_____ . _____
1.06 used as payment for loans?	_____ . _____	_____ . _____	_____ . _____
1.07 used as payment for irrigation fee?	_____ . _____	_____ . _____	_____ . _____
1.08 used for feeds?	_____ . _____	_____ . _____	_____ . _____
1.09 post harvest wastage/losses?	_____ . _____	_____ . _____	_____ . _____
1.10 given away	_____ . _____	_____ . _____	_____ . _____
1.11 used as payment for rentals	_____ . _____	_____ . _____	_____ . _____
<b>TOTAL</b>	_____ . _____	_____ . _____	_____ . _____

### Block E. Palay Production Forecast

This block gathers information on standing crop as of the last day (March 31, 2017) of the reference quarter (January to March 2017). It follows the same instructions in Block C except that it now refers to the household's expected harvest within the next five months.

<b>E. PALAY PRODUCTION FORECAST (on standing crop)</b>		Irrigated	Rainfed	Upland
1. Do you have standing palay on your farm as of March 31, 2017? (Encircle code)		1 - Yes 0 - No, (Go to block F, page 4)		
2. Type of ecosystem (Encircle code/s)		1 - Irrigated	2 - Rainfed	3 - Upland
3. Type of seed planted <sup>d</sup> (Indicate code)				
4. Month when crop will be harvested (Encircle code)		04 - Apr 05 - May 06 - Jun 07 - Jul 08 - Aug	04 - Apr 05 - May 06 - Jun 07 - Jul 08 - Aug	04 - Apr 05 - May 06 - Jun 07 - Jul 08 - Aug
5. Area to be harvested (ha)		_____ . _____	_____ . _____	_____ . _____
Quantity of dry palay to be produced (14% moisture content)	6. Total number of units	_____ . _____	_____ . _____	_____ . _____
	7. Unit of measure			
	8. Weight per unit of measure (kg)	_____ . _____	_____ . _____	_____ . _____
9. Month when crop was planted (Encircle code)		12 - Dec 01 - Jan 02 - Feb 03 - Mar	12 - Dec 01 - Jan 02 - Feb 03 - Mar	12 - Dec 01 - Jan 02 - Feb 03 - Mar
10. Area planted to crop that will be harvested (ha)		_____ . _____	_____ . _____	_____ . _____

### Block F. Palay Planting Intentions

This block intends to establish forecast on palay based on the planting intentions of the farmers. This includes all palay crops that are intended to be planted anytime during the succeeding quarter (April 1, 2017 to June 30, 2017).

<b>F. PALAY PLANTING INTENTIONS</b>				
1. Do you intend to plant palay on your farm anytime from April - June 2017? (Encircle code)		1-Yes 0-No, (Go to block G)		
2. Type of ecosystem (Encircle code)		1 - Irrigated	2 - Rainfed	3 - Upland
3. Month when crop will be planted (Encircle code)		04 - Apr 05 - May 06 - Jun	04 - Apr 05 - May 06 - Jun	04 - Apr 05 - May 06 - Jun
4. Area to be planted (ha)		_____ . _____	_____ . _____	_____ . _____
5. Month when crop will be harvested (Encircle code)		06 - Jun 07 - Jul 08 - Aug 09 - Sep 10 - Oct	06 - Jun 07 - Jul 08 - Aug 09 - Sep 10 - Oct	06 - Jun 07 - Jul 08 - Aug 09 - Sep 10 - Oct

**Block G. Respondent's Assessment of the Household Palay Production**

This block establishes quarterly estimates from the respondent's viewpoint on the comparison between the current year's and the previous year's quarterly rice production. It also seeks information on the reasons for change in production.

<p><b>G. RESPONDENT'S ASSESSMENT OF THE HOUSEHOLD PALAY PRODUCTION</b></p> <p>(For sample households that harvested palay during JANUARY - MARCH 2017)</p> <p>1. Was your farm's production in January - March 2017 larger than, smaller than, or about the same as your farm's palay production in the same quarter of 2016? (Encircle code) 1 - Larger than in 2016 2 - Smaller than in 2016 3 - About the same, go to block H 4 - No harvest last year, go to block H</p> <p>2. What was/were the reason/s for the change in production? (Encircle code/s and explain further the reason/s)</p> <p>1 - Change in area _____</p> <p>2 - Weather effects _____</p> <p>3 - Pests and diseases _____</p> <p>4 - Seeds _____</p> <p>5 - Fertilizer _____</p> <p>6 - Irrigation services _____</p> <p>7 - Others (Specify) _____</p>
---

**Block H. Farmer's Participation in Rice Program**

This block gathers information on the farmers' awareness and participation in any government program on rice. This is to find out the extent of their availment of the various interventions and if the availed benefits was/were used in their palay farming operations which was harvested during the reference quarter.

<p><b>H. FARMER'S PARTICIPATION IN RICE PROGRAM</b></p> <p>1. Are you aware of any government program on rice? (Encircle code) 1 - Yes 0 - No</p> <p>2. Have you availed of any benefit from government program on rice? (Encircle code) 1 - Yes 0 - No, end interview</p> <p>3. Which of the following program benefits and services have you availed? (Encircle code/s and provide details)</p> <p>1 - Seeds _____ 5 - Post harvest facilities _____</p> <p>2 - Fertilizer and other inputs _____ 6 - Marketing assistance _____</p> <p>3 - Training on farming technology _____ 7 - Loans _____</p> <p>4 - Irrigation facilities _____ 8 - Others (Specify) _____</p> <p>4. Which of the availed benefits was/were used in your palay production during the January - March 2017 harvest? (Check box/es)</p> <p> <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 None         </p>
--

**Block I. Statistical Researcher, Supervisor, PSO and Encoder Identification**

This block gathers information about the Statistical Researcher, Field Supervisor, Encoder and the Provincial Statistics Officer. It specifically contains their names, signatures and dates of accomplishing their respective tasks.

<b>I. STATISTICAL RESEARCHER, SUPERVISOR, PSO AND ENCODER IDENTIFICATION</b>			
1. NAME AND SIGNATURE OF STATISTICAL RESEACHERS :	_____	Contact no. _____	Date : _____
2. NAME AND SIGNATURE OF FIELD SUPERVISOR :	_____	Contact no. _____	Date : _____
3. NAME AND SIGNATURE OF PSO :	_____	Contact no. _____	Date : _____
4. NAME AND SIGNATURE OF ENCODER :	_____	Contact no. _____	Date : _____

Prior to data collection, three levels of training are conducted to ensure the quality of data collected. The first level is the operational training which aims to train the selected representatives from the Regional Statistical Service Offices (RSSOs) and POs to be pool of trainers who will be responsible in cascading the operational training in their respective areas. The training will be cascaded to the PSOs and palay focal persons at the RSSOs then to the supervisors and statistical researchers at the POs. The first and second levels of training are done annually while the third level training is done quarterly. Mock interviews and dry-run exercises are essential part in the conduct of each level of training.

**4.3 Data Processing**

Data are processed in the PPS processing system developed using the Census and Survey Processing System (CSPPro). Data processing is decentralized at the POs. The processing activities include encoding of the data from the edited survey returns, computerized editing, completeness check and generation of output tables.

Prior to data encoding, the accomplished survey returns are manually edited and coded by the supervisor. Manual editing involves the checking of data items based on pre-set criteria, data ranges, completeness and consistency with other data items in the

questionnaire. Coding is the assignment of alpha-numeric codes for questionnaire items to facilitate data entry.

To validate, encoded data are subjected to computerized editing using a customized editing program. The editing program takes into consideration the validation criteria such as validity, completeness and consistency with other data items. This activity is done to capture invalid entries that are overlooked during manual editing. An error listing is produced as output of the process. The errors reflected in said lists will be verified vis-à-vis the questionnaires. The data file will be updated based on the corrections made. Editing and updating are performed iteratively until a clean, error-free data file is generated.

Completeness check is done to compare the data file against the master file of the barangays to check if all sample barangays have been completely surveyed or not. This is done after a clean, error-free data file is generated.

A program generating the appropriate household weights or correction factor is run using the clean data file. The generated household weights will then be used in the estimation.

Output table generation is performed only after the activities of completeness check and generation of correction factor have been done. The PPS system generates twelve (12) provincial output tables. Soft copies of provincial data files, specifically the clean data file and barangay master file, are submitted to the System Development Division (SDD) copy furnish the Crops Statistics Division (CSD).

## 5. Data Review and Validation

The PSA has mainstreamed a quarterly data review and validation process to ensure the quality of its statistical products. This is conducted in three (3) levels-the Provincial Data Review (PDR), Regional Data Review (RDR) and National Data Review (NDR).

The first level, PDR is done at the province and is attended by the provincial staff. The PSO is responsible for the conduct of the PDR, assisted by the focal person for the sub-sector. The RDR is presided by the RD and/or Statistical Operations and Coordination Division (SOCD) Chief and attended by all the PSOs in the region. The NDR is held at the Central Office with participation of the technical staff, RSSO representatives and management. At this level, one-on-one consultations between the sector/commodity specialists and the RSSO representatives are done to clear issues, if any, after which regional estimates are finalized and consolidated to come up with the national estimates. Both the regional and the national estimates are then presented to the management for final approval.

Three Levels of Review	Schedule
Provincial Data Review (PDR)	2 days after data processing at PO (2 <sup>nd</sup> week of the survey round)
Regional Data Review (RDR)	2 days after the PDR (3 <sup>rd</sup> week of the survey round)
National Data Review (NDR)	Last week of the survey round

### Note:

At the provincial level, the reviewers shall focus on the level that reflects the situation in the province. At the regional level, the focus is on the comparison between and among provinces in the region. At the CO, the national level data shall be in comparison between and among the regions and with related national data/information. The regional and national level data shall clearly reflect the relative contribution of its components by crop which varies by reporting period and the annual result.

## 5.1 Data Review

Data review process starts from data collection up to processing and generation of output tables. However, data examination is formalized during the PDR since it is in this stage where the data at the provincial level is analyzed as a whole. The process involves analyzing the survey data in terms of completeness, consistency among variables, trend and concentration of the data and presence of extreme observations. Correction of spotted errors in the data is done afterwards. The output of the process is a clean data file used in the re-computation of surveys estimates.

Manual editing is the initial point in data review process. This is done by the SRs and supervisors. Use blue ink ball pen in the manual editing. Inputs of the process are as follows:

- Masterlist of sample barangays and sample respondents;
- Accomplished and edited survey returns; and

Editing process start from completeness check, consistency check, correcting identified errors and computation of estimates based on clean data.

- Completeness check
  - Check the masterlist if all samples were covered.
    - From the accomplished questionnaire, check the names of the respondents from the masterlist.
  - Check for completeness of entries.
    - If there is production during the reference period, check:
      - ✓ month harvested, area harvested, month when crop was planted
      - ✓ quantity produced
      - ✓ major types of seeds planted, generation of seeds planted
      - ✓ product name of the variety planted
      - ✓ method of crop establishment (palay)
      - ✓ quantity of seeds planted
    - If fertilizer was applied, check
      - ✓ area applied with fertilizer

- ✓ quantity and grade of fertilizer applied
- If pesticide was applied, check
  - ✓ area applied with pesticide
  - ✓ quantity and type of pesticides applied
- There should be entry in disposition, assessment of farm production, awareness and availment of program interventions.
- Consistency check
  - Check for the consistency of the data across portions of the questionnaire
    - ✓ conformity of production data with the production form and unit of measure
    - ✓ breakdown of estimates by ecosystem and seed type
    - ✓ total palay farm area should be less than or equal to the agricultural area
    - ✓ total area harvested should be less than or equal to total area planted
    - ✓ area applied with fertilizer/pesticide should be less than or equal to the area harvested
    - ✓ area applied with fertilizer/pesticide should not exceed area planted
    - ✓ total production equals total disposition
  - Check for outlier figures
  - If unusual levels of estimates are derived, verify & review entries in the questionnaire.

## 5.2 Data Validation

The data validation process involves thorough analysis of the estimates generated from the clean data set which are compared with auxiliary information to incorporate the impact of other information and events not captured by the survey. The auxiliary information includes results from the Monthly Palay & Corn Situation Reporting System (MPCRS), historical data series, report on weather condition, area and crop condition,

irrigation, levels of input usage, supply and demand, marketing of agricultural products, and information on rice program implementation.

## Inputs

- **PPS output tables.** These are the tables generated from the CSPro processing system developed by SDD. These will serve as bases in coming up with the production estimates for the reference quarter and the forecasts on standing crop and planting intentions (Appendix C). Other information being generated are fertilizer, pesticide and seeds usage, farmers' disposition of production and availment of program interventions. These tables are consolidated in the publication "Palay Production of the Philippines" and shall also serve as auxiliary information during the data validation process.
- **Historical data series.** Quarterly, semestral and annual data series of palay production, area harvested and yield.
- **MPCSRS** (latest result). Monthly crop monitoring report on the stages of standing crop (vegetative, reproductive and maturing), percent of actual harvests from standing crop and actual plantings from planting intentions (Appendix E).
- **Reports** - Narrative Report/PDR report (Appendix D). The PDR report provides a documentation of what transpired during the conduct of the provincial data review and validation. It gives a general description of the present agricultural situation in the province during the reference quarter. It also accounts for the major findings/problems encountered during the data review, the factors that contributed to these findings, and specific actions taken to address them. It contains the data items that were subjected to adjustments based on the auxiliary information used during the data validation, the reason for doing the adjustment and the procedure employed to arrive at the adjusted estimate.

- **Auxiliary information**
  - Weather – what about the weather
  - Shifting – to or from what crop/activity
  - Movement of Harvest – to or from what quarter
  - Pests and Diseases – specify type of pests or diseases
  - Interventions – what was availed
  
- **The validation process involves the following activities**
  - Establish the acceptability of semester estimates which would rationalize the level of quarter estimates;
  - Justify with sound reasons any significant changes (increase or decrease in the level of estimates);
  - Assess the consistency of the survey-based estimate with the existing data series;
  - Check for consistency of the data being validated with the latest MPCSR;
  - Assess the consistency of reasons;
  - Check for conformity of the estimates with the normal range of values in the data series; and
  - Elaborate the reasons that affect the trend in production/harvest area/ yield.  
Increased/Decreased due to:
    - Weather – what about the weather
    - Shifting – to or from what crop/activity
    - Movement of Harvest – to or from what quarter
    - Pests and Diseases – specify type of pests or diseases
    - Interventions – what was availed

### **5.3 Outputs for Submission**

#### **The National Review Sheet (NRS)**

This is the main output of the validation process at all levels which shows the transformation of estimates in three (3) succeeding quarters from forecast stages (planting intention and standing crop) to actual or final estimate. It also contains the estimates based on survey, PDR, RDR and NDR.

The main data items contained in the NRS are the production; area harvested and yields per hectare by ecosystem and seed type. It also shows the growth rate of the current round's levels versus the previous round's levels and current round's levels versus the estimates in same period of the previous year. Sections for REASONS of material change compared to the previous round's forecast and REASONS of material change versus the estimates in same period of the previous year are also allotted in the NRS (Appendix B). Soft copies of the NRS should be submitted to CSD, immediately after the conduct of PDR and RDR.

Final Estimates

Transformation of estimates from Planting Intentions to Standing Crop to Final Estimates.

Table 1. PALAY: January-June 2016 crop estimates and forecasts

ITEM	2 0 1 6 C R O P															JANUARY-MARCH 2 0 1 5 C R O P														
	APR.'16 Rd				JAN.'16 Rd				OCT.'15 Rd				APR.'15 Rd				GROWTH RATE													
	NDR EST	RDR EST	PDR EST	SRVY	NDR EST	RDR EST	PDR EST	SRVY	NDR EST	RDR EST	PDR EST	SRVY	NDR EST	RDR EST	PDR EST	SRVY	APR/JAN	APR/'15	RDR	PDR	PDR									
(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(14)	(15)	(c2/c6)	(c2/c12)	(c3/c6)	(c3/c12)	(c4/c6)	(c4/c12)									
PROVINCE	328,940	328,940	331,700	672,675	310,484	310,484	310,484	632,151	364,156	364,156	363,837	744,200	365,176	365,176	365,519	677,130	5.9	-9.9	5.9	-9.9	6.8	-9.2								
PRODUCTION (MT)	328,940	328,940	331,700	672,675	310,484	310,484	310,484	632,151	364,156	364,156	363,837	744,200	365,176	365,176	365,519	677,130	5.9	-9.9	5.9	-9.9	6.8	-9.2								
Hybrid	60,494	60,494	60,494	152,151	60,185	60,185	60,185	128,444	54,698	54,698	54,909	64,314	54,698	54,698	54,909	64,314	0.5	10.6	0.5	10.6	0.5	10.6								
Inbred-Certified	222,734	222,734	223,494	502,041	209,307	209,307	209,307	502,917	248,637	248,637	248,637	496,591	248,637	248,637	248,637	496,591	6.4	-10.4	6.4	-10.4	6.8	-10.1								
Farmers/Good Seeds	45,537	45,537	47,537	18,483	40,848	40,848	40,848	790	61,482	61,482	61,614	116,225	61,482	61,614	116,225	11.5	-25.9	11.5	-25.9	16.4	-22.7									
Traditional/Native	175	175	175	-	144	144	144	-	359	359	359	-	359	359	359	-	21.5	-51.3	21.5	-51.3	21.5	-51.3								
Irrigated	308,652	308,652	311,412	634,171	290,511	290,511	290,511	591,340	341,817	341,817	341,082	695,629	346,538	346,538	346,881	649,428	6.2	-10.9	6.2	-10.9	7.2	-10.1								
Hybrid	60,494	60,494	60,494	152,151	60,185	60,185	60,185	128,444	54,698	54,698	54,909	64,314	54,698	54,698	54,909	64,314	0.5	10.6	0.5	10.6	0.5	10.6								
Inbred-Certified	207,414	207,414	208,174	465,185	194,111	194,111	194,111	462,896	234,741	234,741	234,741	473,722	234,741	234,741	234,741	473,722	6.9	-11.6	6.9	-11.6	7.2	-11.3								
Farmers/Good Seeds	40,744	40,744	42,744	16,835	36,215	36,215	36,215	-	57,099	57,099	57,231	111,392	57,099	57,231	111,392	12.5	-28.6	12.5	-28.6	18.0	-25.1									
Traditional/Native	175	175	175	-	-	-	-	-	-	-	-	-	-	-	-	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!								
Rainfed	19,976	19,976	19,976	38,504	19,719	19,719	19,719	40,811	22,024	22,024	22,440	48,571	18,010	18,010	18,010	27,702	1.3	10.9	1.3	10.9	1.3	10.9								
Hybrid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!								
Inbred-Certified	15,320	15,320	15,320	36,856	15,196	15,196	15,196	40,021	13,896	13,896	13,896	22,869	13,896	13,896	13,896	22,869	0.8	10.2	0.8	10.2	0.8	10.2								
Farmers/Good Seeds	4,656	4,656	4,656	1,648	4,523	4,523	4,523	790	4,114	4,114	4,114	4,833	4,114	4,114	4,114	4,833	2.9	13.2	2.9	13.2	2.9	13.2								
Traditional/Native	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!								
Upland	312	312	312	-	254	254	254	-	315	315	315	-	628	628	628	-	22.8	-50.3	22.8	-50.3	22.8	-50.3								
Inbred-Certified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!								
Farmers/Good Seeds	137	137	137	-	110	110	110	-	269	269	269	-	269	269	269	-	24.5	-49.1	24.5	-49.1	24.5	-49.1								
Traditional/Native	175	175	175	-	144	144	144	-	359	359	359	-	359	359	359	-	21.5	-51.3	21.5	-51.3	21.5	-51.3								
AREA HRVSTD (Ha)	70,649	70,649	70,649	142,532	66,232	66,232	66,232	135,549	82,114	82,114	82,114	168,053	78,716	78,716	78,716	144,724	6.7	-10.2	6.7	-10.2	6.7	-10.2								
Irrigated	63,424	63,424	63,424	129,166	59,288	59,288	59,288	120,742	73,509	73,509	73,509	149,704	71,747	71,747	71,747	134,433	7.0	-11.6	7.0	-11.6	7.0	-11.6								
Rainfed	6,928	6,928	6,928	13,366	6,707	6,707	6,707	14,807	8,311	8,311	8,311	18,349	6,382	6,382	6,382	10,291	3.3	8.6	3.3	8.6	3.3	8.6								
Upland	297	297	297	-	237	237	237	-	294	294	294	-	587	587	587	-	25.3	-49.4	25.3	-49.4	25.3	-49.4								
Upland - Decrease - Some areas are in fallow/shifting to sugarcane(,xxx,xx hectares) in (municipality).	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
YIELD/HECTARE	4.66	4.66	4.70	4.72	4.69	4.69	4.69	4.66	4.43	4.43	4.43	4.43	4.64	4.64	4.64	4.68	-0.7	0.4	-0.7	0.4	0.2	1.2								
Irrigated	4.87	4.87	4.91	4.91	4.90	4.90	4.90	4.90	4.65	4.65	4.64	4.65	4.83	4.83	4.83	4.83	-0.7	0.8	-0.7	0.8	0.2	1.7								
Rainfed	2.88	2.88	2.88	2.88	2.94	2.94	2.94	2.76	2.65	2.65	2.70	2.65	2.82	2.82	2.82	2.69	-1.9	2.2	-1.9	2.2	-1.9	2.2								
Upland	1.05	1.05	1.05	#DIV/0!	1.07	1.07	1.07	#DIV/0!	1.07	1.07	1.07	#DIV/0!	1.07	1.07	1.07	#DIV/0!	-2.0	-1.8	-2.0	-1.8	-2.0	-1.8								

Estimates from the PPS survey (PPS out tables).

Results from the PDR, RDR and NDR

Previous year's final estimates.

Table 1. PALAY: January-June 2016 crop estimates and forecasts

ITEM	2 0 1 6 C R O P															JANUARY-MARCH 2 0 1 5 C R O P														
	APR.'16 Rd				JAN.'16 Rd				OCT.'15 Rd				APR.'15 Rd				GROWTH RATE													
	NDR EST	RDR EST	PDR EST	SRVY	NDR EST	RDR EST	PDR EST	SRVY	NDR EST	RDR EST	PDR EST	SRVY	NDR EST	RDR EST	PDR EST	SRVY	APR/JAN	APR/'15	RDR	PDR	PDR									
(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(14)	(15)	(c2/c6)	(c2/c12)	(c3/c6)	(c3/c12)	(c4/c6)	(c4/c12)									
PROVINCE	328,940	328,940	331,700	672,675	310,484	310,484	310,484	632,151	364,156	364,156	363,837	744,200	365,176	365,176	365,519	677,130	5.9	-9.9	5.9	-9.9	6.8	-9.2								
PRODUCTION (MT)	328,940	328,940	331,700	672,675	310,484	310,484	310,484	632,151	364,156	364,156	363,837	744,200	365,176	365,176	365,519	677,130	5.9	-9.9	5.9	-9.9	6.8	-9.2								
Hybrid	60,494	60,494	60,494	152,151	60,185	60,185	60,185	128,444	54,698	54,698	54,909	64,314	54,698	54,698	54,909	64,314	0.5	10.6	0.5	10.6	0.5	10.6								
Inbred-Certified	222,734	222,734	223,494	502,041	209,307	209,307	209,307	502,917	248,637	248,637	248,637	496,591	248,637	248,637	248,637	496,591	6.4	-10.4	6.4	-10.4	6.8	-10.1								
Farmers/Good Seeds	45,537	45,537	47,537	18,483	40,848	40,848	40,848	790	61,482	61,482	61,614	116,225	61,482	61,614	116,225	11.5	-25.9	11.5	-25.9	16.4	-22.7									
Traditional/Native	175	175	175	-	144	144	144	-	359	359	359	-	359	359	359	-	21.5	-51.3	21.5	-51.3	21.5	-51.3								
Irrigated	308,652	308,652	311,412	634,171	290,511	290,511	290,511	591,340	341,817	341,817	341,082	695,629	346,538	346,538	346,881	649,428	6.2	-10.9	6.2	-10.9	7.2	-10.1								
Hybrid	60,494	60,494	60,494	152,151	60,185	60,185	60,185	128,444	54,698	54,698	54,909	64,314	54,698	54,698	54,909	64,314	0.5	10.6	0.5	10.6	0.5	10.6								
Inbred-Certified	207,414	207,414	208,174	465,185	194,111	194,111	194,111	462,896	234,741	234,741	234,741	473,722	234,741	234,741	234,741	473,722	6.9	-11.6	6.9	-11.6	7.2	-11.3								
Farmers/Good Seeds	40,744	40,744	42,744	16,835	36,215	36,215	36,215	-	57,099	57,099	57,231	111,392	57,099	57,231	111,392	12.5	-28.6	12.5	-28.6	18.0	-25.1									
Traditional/Native	175	175	175	-	-	-	-	-	-	-	-	-	-	-	-	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!								
Rainfed	19,976	19,976	19,976	38,504	19,719	19,719	19,719	40,811	22,024	22,024	22,440	48,571	18,010	18,010	18,010	27,702	1.3	10.9	1.3	10.9	1.3	10.9								
Hybrid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!								
Inbred-Certified	15,320	15,320	15,320	36,856	15,196	15,196	15,196	40,021	13,896	13,896	13,896	22,869	13,896	13,896	13,896	22,869	0.8	10.2	0.8	10.2	0.8	10.2								
Farmers/Good Seeds	4,656	4,656	4,656	1,648	4,523	4,523	4,523	790	4,114	4,114	4,114	4,833	4,114	4,114	4,114	4,833	2.9	13.2	2.9	13.2	2.9	13.2								
Traditional/Native	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!								
Upland	312	312	312	-	254	254	254	-	315	315	315	-	628	628	628	-	22.8	-50.3	22.8	-50.3	22.8	-50.3								
Inbred-Certified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!								
Farmers/Good Seeds	137	137	137	-	110	110	110	-	269	269	269	-	269	269	269	-	24.5	-49.1	24.5	-49.1	24.5	-49.1								
Traditional/Native	175	175	175	-	144	144	144	-	359	359	359	-	359	359	359	-	21.5	-51.3	21.5	-51.3	21.5	-51.3								
AREA HRVSTD (Ha)	70,649	70,649	70,649	142,532	66,232	66,232	66,232	135,549	82,114	82,114	82,114	168,053	78,716	78,716	78,716	144,724	6.7	-10.2	6.7	-10.2	6.7	-10.2								
Irrigated																														





**5.4 Transformation of Estimates by Survey Round**

Reference Quarter	Survey Round				
	January 2017	April 2017	July 2017	October 2017	January 2018
Oct.-Dec. 2016	Final Estimates				
Jan.-Mar. 2017	Standing Crop	Final Estimates			
Apr.-Jun. 2017	Planting Intentions	Standing Crop	Final Estimates		
Jul.-Sept. 2017		Planting Intentions	Standing Crop	Final Estimates	
Oct.-Dec. 2017			Planting Intentions	Standing Crop	Final Estimates
Jan.-Mar. 2018				Planting Intentions	Standing Crop
Apr.-Jun. 2018					Planting Intentions

# APPENDICES

## APPENDIX A

## Timetable of Activities

Activities	Timetable of Operations			
	April Round	July Round	October Round	January Round
1. Review and finalization of survey instruments (SI) vis-à-vis dummy tables and processing system	Jan 5-16	Apr 1-18	July 1-15	Sep 1-25
2. Preparation of work and financial plan	Jan 19-Feb 2	Apr 19-May 4	Aug 1-15	Oct 1-31
3. Reproduction of SI	Feb 2-27	May 6-Jun 11	Aug 15-Sep 16	Oct 26- Nov 12
4. Allocation and bundling of training/SI	Mar 9 - 18	Jun 13-20	Sep 17-19	Nov 18-21
5. Distribution/ mailing of training materials/SI	Mar 23 - 27	Jun 20-26	Sep 19-25	Nov 22-26
6. Briefing of SRs and field supervisors	Mar 30 -31	Jun 26-27	Sep 25-26	Nov 27-28
7. Data collection and supervision	Apr 1-10	Jul 1-10	Oct 1-10	Dec 1-10
8. Manual editing, encoding, data cleaning, table generation, data verification, generation of response rate summaries	Apr 2 -11	Jul 2 - 11	Oct 2-11	Dec 2-11
9. E-mailing of review materials to PSO and RSSO from CSD-CO	NLT Apr 3	NLT Jul 3	NLT Oct 3	NLT Dec 3
10. Conduct of Provincial Data Review (PDR)	NLT Apr 14	NLT Jul 14	NLT Oct 13	NLT Dec 15
11. Submission of provincial estimates (PDR result) and data files (CSPRO output) to CSD-CO	NLT Apr 15	NLT Jul 15	NLT Oct 15	NLT Dec 17
12. Conduct of Regional Data Review (RDR)	Apr 17-21	Jul 17-21	Oct 16-20	Dec 18-22
13. Preparation of Inputs for the NDR	Apr 19-21	Jul 19-21	Oct 18-20	Dec 26-29
14. Submission of regional estimates (RDR result) to CSD-CO	NLT Apr 20	NLT Jul 20	NLT Oct 19	NLT Dec 27
15. Conduct of National Data Review (NDR)	Apr 24-28	Jul 24-28	Oct 23-27	Jan 2-5
16. Preparation of Preliminary Report	May 1-5	Jul 31-Aug 4	Oct 30-Nov 3	Jan 8-12
17. Submission of report to the National Statistician for clearance/approval	May 9	Aug 8	Nov 10	Jan 16
18. Dissemination of official statistics	OOB May 15	OOB Aug 15	OOB Nov 15	OOB Jan 19

NLT - Not later than; OOB - On or before

National Review Sheet (NRS)

- Immediate past quarter estimates

Table 1. PALAY: January-June 2016 crop estimates and forecasts																		
ITEM	JANUARY-MARCH																	
	2 0 1 6				C R O P				2 0 1 5				C R O P				GROWTH RATE	
	NDR EST	APR '16 Rd RDR EST	PDR EST	SRVY	NDR EST	RDR EST	PDR EST	SRVY	NDR EST	SRVY**	NDR EST	SRVY	APR/JAN	APR/15	APR/JAN	APR/15		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(14)	(15)		
<b>PROVINCE</b>	328,940	328,940	331,700	672,675	310,484	310,484	310,484	632,151	364,156	744,200	365,176	677,130						
<b>PRODUCTION (MT)</b>	<b>328,940</b>	<b>328,940</b>	<b>331,700</b>	<b>672,675</b>	<b>310,484</b>	<b>310,484</b>	<b>310,484</b>	<b>632,151</b>	<b>364,156</b>	<b>744,200</b>	<b>365,176</b>	<b>677,130</b>	<b>5.9</b>	<b>-9.9</b>	<b>6.8</b>	<b>-9.2</b>		
Hybrid	60,494	60,494	60,494	152,151	60,185	60,185	60,185	128,444			54,698	64,314	0.5	10.6	0.5	10.6		
Inbred-Certified	222,734	222,734	223,494	502,041	209,307	209,307	209,307	502,917			248,637	496,591	6.4	-10.4	6.8	-10.1		
Farmers'Good Seeds	45,537	45,537	47,537	18,483	40,848	40,848	40,848	790			61,482	116,225	11.5	-25.9	16.4	-22.7		
Traditional/Naive	175	175	175		144	144	144				359		21.5	-51.3	21.5	-51.3		
<b>Irrigated</b>	<b>308,652</b>	<b>308,652</b>	<b>311,412</b>	<b>634,171</b>	<b>290,511</b>	<b>290,511</b>	<b>290,511</b>	<b>591,340</b>	<b>341,817</b>	<b>695,629</b>	<b>346,538</b>	<b>649,428</b>	<b>6.2</b>	<b>-10.9</b>	<b>7.2</b>	<b>-10.1</b>		
Hybrid	60,494	60,494	60,494	152,151	60,185	60,185	60,185	128,444			54,698	64,314	0.5	10.6	0.5	10.6		
Inbred-Certified	207,414	207,414	208,174	465,185	194,111	194,111	194,111	462,896			234,741	473,722	6.9	-11.6	7.2	-11.3		
Farmers'Good Seeds	40,744	40,744	42,744	16,835	36,215	36,215	36,215				57,099	111,392	12.5	-28.6	18.0	-25.1		
Traditional/Naive																		
<b>Rainfed</b>	<b>19,976</b>	<b>19,976</b>	<b>19,976</b>	<b>38,504</b>	<b>19,719</b>	<b>19,719</b>	<b>19,719</b>	<b>40,811</b>	<b>22,024</b>	<b>48,571</b>	<b>18,010</b>	<b>27,702</b>	<b>1.3</b>	<b>10.9</b>	<b>1.3</b>	<b>10.9</b>		
Hybrid																		
Inbred-Certified	15,320	15,320	15,320	36,856	15,196	15,196	15,196	40,021			13,896	22,869	0.8	10.2	0.8	10.2		
Farmers'Good Seeds	4,656	4,656	4,656	1,648	4,523	4,523	4,523	790			4,114	4,833	2.9	13.2	2.9	13.2		
Traditional/Naive																		
<b>Upland</b>	<b>312</b>	<b>312</b>	<b>312</b>	<b>-</b>	<b>254</b>	<b>254</b>	<b>254</b>	<b>-</b>	<b>315</b>	<b>-</b>	<b>628</b>	<b>-</b>	<b>22.8</b>	<b>-50.3</b>	<b>-</b>	<b>-50.3</b>		
Inbred-Certified																		
Farmers'Good Seeds	137	137	137		110	110	110				269		24.5	-49.1	24.5	-49.1		
Traditional/Naive	175	175	175		144	144	144				359		21.5	-51.3	21.5	-51.3		
<b>AREA HRVSTD (Ha)</b>	<b>70,649</b>	<b>70,649</b>	<b>70,649</b>	<b>142,532</b>	<b>66,232</b>	<b>66,232</b>	<b>66,232</b>	<b>135,549</b>	<b>82,114</b>	<b>168,053</b>	<b>78,716</b>	<b>144,724</b>	<b>6.7</b>	<b>-10.2</b>	<b>6.7</b>	<b>-10.2</b>		
Hybrid	9,999	9,999	9,999	25,134	9,948	9,948	9,948	21,216			9,041	10,638	0.5	10.6	0.5	10.6		
Inbred-Certified	49,110	49,110	49,110	112,865	46,077	46,077	46,077	114,019			54,489	107,485	6.6	-9.9	6.6	-9.9		
Farmers'Good Seeds	11,370	11,370	11,370	4,533	10,070	10,070	10,070	314			14,844	26,601	12.9	-23.4	12.9	-23.4		
Traditional/Naive	170	170	170		137	137	137				342		24.1	-50.3	24.1	-50.3		
<b>Irrigated</b>	<b>63,424</b>	<b>63,424</b>	<b>63,424</b>	<b>129,166</b>	<b>59,288</b>	<b>59,288</b>	<b>59,288</b>	<b>120,742</b>	<b>73,509</b>	<b>149,704</b>	<b>71,747</b>	<b>134,433</b>	<b>7.0</b>	<b>-11.6</b>	<b>7.0</b>	<b>-11.6</b>		
Hybrid	9,999	9,999	9,999	25,134	9,948	9,948	9,948	21,216			9,041	10,638	0.5	10.6	0.5	10.6		
Inbred-Certified	44,037	44,037	44,037	100,156	41,165	41,165	41,165	99,526			49,815	99,174	7.0	-11.6	7.0	-11.6		
Farmers'Good Seeds	9,388	9,388	9,388	3,876	8,175	8,175	8,175				12,891	24,621	14.8	-27.2	14.8	-27.2		
Traditional/Naive																		
<b>Rainfed</b>	<b>6,928</b>	<b>6,928</b>	<b>6,928</b>	<b>13,366</b>	<b>6,707</b>	<b>6,707</b>	<b>6,707</b>	<b>14,807</b>	<b>8,311</b>	<b>18,349</b>	<b>6,382</b>	<b>10,291</b>	<b>3.3</b>	<b>8.6</b>	<b>3.3</b>	<b>8.6</b>		
Hybrid																		
Inbred-Certified	5,073	5,073	5,073	12,709	4,912	4,912	4,912	14,493			4,674	8,311	3.3	8.5	3.3	8.5		
Farmers'Good Seeds	1,855	1,855	1,855	657	1,795	1,795	1,795	314			1,708	1,980	3.3	8.6	3.3	8.6		
Traditional/Naive																		
<b>Upland</b>	<b>297</b>	<b>297</b>	<b>297</b>	<b>-</b>	<b>237</b>	<b>237</b>	<b>237</b>	<b>-</b>	<b>294</b>	<b>-</b>	<b>587</b>	<b>-</b>	<b>25.3</b>	<b>-49.4</b>	<b>25.3</b>	<b>-49.4</b>		
Inbred-Certified																		
Farmers'Good Seeds	127	127	127		100	100	100				245		27.0	-48.2	27.0	-48.2		
Traditional/Naive	170	170	170		137	137	137				342		24.1	-50.3	24.1	-50.3		
Reasons vs Last Qtr Est	All crop type - Increase - MOH from Q2 due to warm weather which hastens maturity.																	
Reasons vs Last Year Est	Irrigated - Decrease due to late planting from areas covered by UCRIS (Rehabilitation). Rainfed - Increase due to sufficient rainfall during planting period. Upland - Decrease - Some areas are in fallow/shifting to sugarcane.																	
<b>YIELD/HECTARE</b>	<b>4.66</b>	<b>4.66</b>	<b>4.70</b>	<b>4.72</b>	<b>4.69</b>	<b>4.69</b>	<b>4.69</b>	<b>4.66</b>	<b>4.43</b>	<b>4.43</b>	<b>4.64</b>	<b>4.68</b>	<b>-0.7</b>	<b>0.4</b>	<b>0.2</b>	<b>1.2</b>		
Hybrid	6.05	6.05	6.05	6.05	6.05	6.05	6.05	6.05			6.05	6.05	0.0	0.0	0.0	0.0		
Inbred-Certified	4.54	4.54	4.55	4.45	4.54	4.54	4.54	4.41			4.56	4.62	-0.2	-0.6	0.2	-0.3		
Farmers'Good Seeds	4.01	4.01	4.18	4.08	4.06	4.06	4.06	2.52			4.14	4.37	-1.3	-3.3	3.1	0.9		
Traditional/Naive	1.03	1.03	1.03	#DIV/0!	1.05	1.05	1.05	#DIV/0!			1.05	#DIV/0!	-2.1	-1.9	-2.1	-1.9		
<b>Irrigated</b>	<b>4.87</b>	<b>4.87</b>	<b>4.91</b>	<b>4.91</b>	<b>4.90</b>	<b>4.90</b>	<b>4.90</b>	<b>4.90</b>	<b>4.65</b>	<b>4.65</b>	<b>4.83</b>	<b>4.83</b>	<b>-0.7</b>	<b>0.8</b>	<b>0.2</b>	<b>1.7</b>		
Hybrid	6.05	6.05	6.05	6.05	6.05	6.05	6.05	6.05			6.05	6.05	0.0	0.0	0.0	0.0		
Inbred-Certified	4.71	4.71	4.73	4.64	4.72	4.72	4.72	4.65			4.71	4.78	-0.1	0.0	0.3	0.3		
Farmers'Good Seeds	4.34	4.34	4.55	4.34	4.43	4.43	4.43	#DIV/0!			4.43	4.52	-2.0	-2.0	2.8	2.8		
Traditional/Naive	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
<b>Rainfed</b>	<b>2.88</b>	<b>2.88</b>	<b>2.88</b>	<b>2.88</b>	<b>2.94</b>	<b>2.94</b>	<b>2.94</b>	<b>2.76</b>	<b>2.65</b>	<b>2.65</b>	<b>2.82</b>	<b>2.69</b>	<b>-1.9</b>	<b>2.2</b>	<b>-1.9</b>	<b>2.2</b>		
Hybrid	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Inbred-Certified	3.02	3.02	3.02	2.90	3.09	3.09	3.09	2.76			2.97	2.75	-2.4	1.6	-2.4	1.6		
Farmers'Good Seeds	2.51	2.51	2.51	2.51	2.52	2.52	2.52	2.52			2.41	2.44	-0.4	4.2	-0.4	4.2		
Traditional/Naive	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
<b>Upland</b>	<b>1.05</b>	<b>1.05</b>	<b>1.05</b>	<b>#DIV/0!</b>	<b>1.07</b>	<b>1.07</b>	<b>1.07</b>	<b>#DIV/0!</b>	<b>1.07</b>	<b>#DIV/0!</b>	<b>1.07</b>	<b>#DIV/0!</b>	<b>-2.0</b>	<b>-1.8</b>	<b>-2.0</b>	<b>-1.8</b>		
Inbred-Certified	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
Farmers'Good Seeds	1.08	1.08	1.08	#DIV/0!	1.10	1.10	1.10	#DIV/0!			1.10	#DIV/0!	-1.9	-1.8	-1.9	-1.8		
Traditional/Naive	1.03	1.03	1.03	#DIV/0!	1.05	1.05	1.05	#DIV/0!			1.05	#DIV/0!	-2.1	-1.9	-2.1	-1.9		
Reasons vs Last Qtr Est	All crop type - Decrease - Some areas affected by cold weather.																	
Reasons vs Last Year Est	Irrigated - Increase - Normal delivery of irrigation water and use of newly introduced certified seeds with high yield. Rainfed - Increase - Use of newly introduced seeds with high yield. Upland - Decrease - Affected by cold weather during reproductive stage.																	

From table 1 of the PPS (CSPRO generated output table).

- One-quarter ahead forecasts based on standing crop

ITEM		APRIL-JUNE																												JANUARY-JUNE				
		2 0 1 6 C. R. O. P.												2 0 1 5 C. R. O. P.												GROWTH RATE								
		APR '16 Rd				JAN '16 Rd				JULY '15 Rd				APR '15 Rd				RDR		PDR			2016 RDR	2016 PDR	2015	GROWTH RATE								
		NDR EST	RDR EST	PDR EST	SRVY	NDR EST	RDR EST	PDR EST	SRVY	NDR EST	SRVY	NDR EST	SRVY	NDR EST	SRVY	APR/JAN	APR/15	APR/JAN	APR/15	RDR	PDR	RDR				PDR								
(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(28)	(29)	(28)	(29)	c17/c20	c17/c24	c18/c20	c18/c24	(30)	(30)	(31)	(32)	(32)								
<b>PROVINCE</b>		337,426	337,426	340,773	365,102	357,002	357,002	357,002	489,012	303,139	323,108	303,139	381,405	-5.5	11.3	-4.5	12.4	666,366	672,473	668,315	-0.3	0.6												
<b>PRODUCTION (MT)</b>		337,426	337,426	340,773	365,102	357,002	357,002	357,002	489,012	303,139	323,108	303,139	381,405	-5.5	11.3	-4.5	12.4	666,366	672,473	668,315	-0.3	0.6												
Hybrid		21,600	21,600	21,600	21,600					18,523	18,531	18,523	34,285	16.6	16.6			82,094	82,094	73,221	12.1	12.1												
Inbred-Certified		272,422	272,422	237,329	331,585					235,514	253,744	235,514	284,942	15.7	0.8			495,156	460,823	484,151	2.3	-4.8												
Farmers/Good Seeds		43,370	43,370	81,810	11,917					48,771	50,833	48,771	62,178	-11.1	67.7			88,907	129,347	110,253	-19.4	17.3												
Traditional/Native		35	35	35	-					331	-	331	-	-89.5	-89.5			210	210	690	-69.6	-69.6												
<b>Irrigated</b>		326,313	326,313	329,660	361,632	345,782	345,782	345,782	479,145	285,346	307,835	285,346	364,391	-5.6	14.4	-4.7	15.5	634,965	641,072	631,884	0.5	1.5												
Hybrid		21,600	21,600	21,600	21,600					18,523	18,531	18,523	34,285	16.6	16.6			82,094	82,094	73,221	12.1	12.1												
Inbred-Certified		262,687	262,687	228,839	328,115					220,679	240,907	220,679	270,366	19.0	3.7			470,101	437,013	455,420	3.2	-4.0												
Farmers/Good Seeds		42,026	42,026	79,221	11,917					46,144	48,397	46,144	59,740	-8.9	71.7			82,770	121,965	103,243	-19.8	18.1												
Traditional/Native		-	-	-	-					-	-	-	-	#DIV/0!	#DIV/0!			0	0	0	#DIV/0!	#DIV/0!												
<b>Rainfed</b>		11,051	11,051	11,051	3,470	11,036	11,036	11,036	9,867	17,214	15,273	17,214	17,014	0.1	-35.8	0.1	-35.8	31,027	31,027	35,224	-11.9	-11.9												
Hybrid		-	-	-	-					-	-	-	-	#DIV/0!	#DIV/0!			0	0	0	#DIV/0!	#DIV/0!												
Inbred-Certified		9,735	9,735	8,490	3,470					14,835	12,837	14,835	14,576	-34.4	-42.8			25,055	23,810	28,731	-12.8	-17.1												
Farmers/Good Seeds		1,316	1,316	2,561	-					2,379	2,436	2,379	2,438	-44.7	7.7			5,972	7,217	6,493	-8.0	11.2												
Traditional/Native		-	-	-	-					-	-	-	-	#DIV/0!	#DIV/0!			0	0	0	#DIV/0!	#DIV/0!												
<b>Upland</b>		62	62	62	-	184	184	184	-	579	-	579	-	-66.0	-89.2	-66.0	-89.2	374	374	1,207	-69.0	-69.0												
Inbred-Certified		-	-	-	-					-	-	-	-	#DIV/0!	#DIV/0!			0	0	0	#DIV/0!	#DIV/0!												
Farmers/Good Seeds		28	28	28	-					248	-	248	-	-88.8	-88.8			165	165	517	-68.1	-68.1												
Traditional/Native		35	35	35	-					331	-	331	-	-89.5	-89.5			210	210	690	-69.6	-69.6												
<b>AREA HRVSTD (Ha)</b>		74,594	74,594	74,594	78,420	79,320	79,320	79,320	107,108	68,742	72,285	68,742	85,290	-6.0	8.5	-6.0	8.5	145,243	145,243	147,458	-1.5	-1.5												
Hybrid		3,600	3,600	3,600	3,600					3,082	3,082	3,082	5,700	16.8	16.8			13,599	13,599	12,123	12.2	12.2												
Inbred-Certified		60,540	60,540	51,910	72,048					53,125	56,663	53,125	64,607	14.0	-2.3			109,650	101,020	107,614	1.9	-6.1												
Farmers/Good Seeds		10,420	10,420	19,050	2,772					12,204	12,540	12,204	14,983	-14.6	56.1			21,790	30,420	27,048	-19.4	12.5												
Traditional/Native		34	34	34	-					331	-	331	-	-89.7	-89.7			204	204	673	-69.7	-69.7												
<b>Irrigated</b>		70,348	70,348	70,348	77,106	73,885	73,885	73,885	102,406	61,233	66,075	61,233	78,165	-4.8	14.9	-4.8	14.9	133,772	133,772	132,980	0.6	0.6												
Hybrid		3,600	3,600	3,600	3,600					3,082	3,082	3,082	5,700	16.8	16.8			13,599	13,599	12,123	12.2	12.2												
Inbred-Certified		56,982	56,982	48,845	70,734					47,356	51,653	47,356	58,685	20.3	3.1			101,019	92,882	97,711	4.0	-4.4												
Farmers/Good Seeds		9,766	9,766	17,903	2,772					10,795	11,340	10,795	13,780	-9.5	65.8			19,154	27,291	23,686	-19.1	15.2												
Traditional/Native		-	-	-	-					-	-	-	-	#DIV/0!	#DIV/0!			0	0	0	#DIV/0!	#DIV/0!												
<b>Rainfed</b>		4,186	4,186	4,186	1,314	5,255	5,255	5,255	4,702	6,941	6,210	6,941	7,125	-20.3	-39.7	-20.3	-39.7	11,114	11,114	13,323	-16.6	-16.6												
Hybrid		-	-	-	-					-	-	-	-	#DIV/0!	#DIV/0!			0	0	0	#DIV/0!	#DIV/0!												
Inbred-Certified		3,558	3,558	3,065	1,314					5,769	5,010	5,769	5,922	-38.3	-46.9			8,631	8,138	10,443	-17.4	-22.1												
Farmers/Good Seeds		628	628	1,121	-					1,172	1,200	1,172	1,203	-46.4	-4.4			2,483	2,976	2,880	-4.4	3.3												
Traditional/Native		-	-	-	-					-	-	-	-	#DIV/0!	#DIV/0!			0	0	0	#DIV/0!	#DIV/0!												
<b>Upland</b>		60	60	60	-	180	180	180	-	568	-	568	-	-66.7	-89.4	-66.7	-89.4	357	357	1,155	-69.1	-69.1												
Inbred-Certified		-	-	-	-					-	-	-	-	#DIV/0!	#DIV/0!			0	0	0	#DIV/0!	#DIV/0!												
Farmers/Good Seeds		26	26	26	-					237	-	237	-	-89.0	-89.0			153	153	482	-68.3	-68.3												
Traditional/Native		34	34	34	-					331	-	331	-	-89.7	-89.7			204	204	673	-69.7	-69.7												
Reasons vs Last Qtr Est		Irrigated- Decrease - MOH to Q1 Rainfed/Upland- Decreased- Unrealized planting due insufficient rainfall during planting period																				Decrease - Planting of in-fallow areas covered UCRIS (Q2) Inbred- Decreased- Unrealized planting due insufficient rainfall during planting period (Q2) Upland- Decrease - Some areas are in fallow/shifting to sugarcane.												
Reasons vs Last Year Est		Irrigated- Increase - Planting of in-fallow areas covered by UCRIS Rainfed/Upland- Decreased- Unrealized planting due insufficient rainfall during planting period																																
<b>YIELD/HECTARE</b>		4.52	4.52	4.57	4.66	4.50	4.50	4.50	4.57	4.41	4.47	4.41	4.47	0.5	2.6	1.5	3.6	4.59	4.63	4.53	1.2	2.2												
Hybrid		6.00	6.00	6.00	6.00					6.01	6.01	6.01	6.01	-0.2	-0.2			6.04	6.04	6.04	-0.1	-0.1												
Inbred-Certified		4.50	4.50	4.57	4.60					4.43	4.48	4.43	4.41	1.5	3.1			4.52	4.56	4.50	0.4	1.4												
Farmers/Good Seeds		4.16	4.16	4.29	4.30					4.00	4.05	4.00	4.15	4.2	7.5			4.08	4.25	4.08	0.1	4.3												
Traditional/Native		1.02	1.02	1.02	#DIV/0!					1.00	#DIV/0!	1.00	#DIV/0!	2.0	2.0			1.03	1.03	1.03	0.3	0.3												
<b>Irrigated</b>		4.64	4.64	4.69	4.69	4.68	4.68	4.68	4.68	4.66	4.66	4.66	4.66	-0.9	-0.5	0.1	0.6	4.75	4.79	4.75	-0.1	0.9												
Hybrid		6.00	6.00	6.00	6.00					6.01	6.01	6.01	6.01	-0.2	-0.2			6.04	6.04	6.04	-0.1	-0.1												
Inbred-Certified		4.61	4.61	4.69	4.64					4.66	4.66	4.66	4.61	-1.1	0.5			4.65	4.71	4.69	-0.7	0.4												
Farmers/Good Seeds		4.30	4.30	4.43	4.30					4.27	4.27	4.27	4.34	0.7	3.5			4.32	4.47	4.36	-0.9	2.5												
Traditional/Native		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!					#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!								
<b>Rainfed</b>		2.64	2.64	2.64	2.64	2.10	2.10	2.10	2.10	2.48	2.46	2.48	2.39	25.7	6.4	25.7	6.4	2.79	2.79	2.64	5.6	5.6												
Hybrid		#DIV/0!																																



APPENDIX C

Palay Production Survey (PPS) Output Tables 1- 3

PROVINCE:

Table 1. PALAY: Physical area, production, area harvested and yield per hectare by ecosystem and seed type, January-March 2016

ITEM	Total Agricultural Area (ha)	Total Palay Area (ha)	Area Planted (ha)	PRODUCTION (MT)					AREA HARVESTED (Ha)					YIELD PER HECTARE (MT/Ha)			
				Jan	Feb	Mar	Total	%	Jan	Feb	Mar	Total	%	Jan	Feb	Mar	Total
Total	179,431.78	161,106.89	142,532.12	31,010.00	72,436.00	569,229.00	672,674.99	100.00	8,021.00	16,923.00	117,588.00	142,532.12	100.00	3.87	4.28	4.84	4.72
Hybrid	36,864.00	34,524.00	25,134.00	-	23,806.00	128,346.00	152,151.14	22.62	-	3,600.00	21,534.00	25,134.00	17.63	-	6.61	5.96	6.05
Inbred-Certified	137,005.63	121,329.75	112,864.98	31,010.00	46,582.00	424,049.00	502,040.93	74.63	8,021.00	12,666.00	92,178.00	112,864.98	79.19	3.87	3.71	4.60	4.45
Farmers'/Good Seeds	5,562.14	5,253.14	4,533.14	-	1,648.00	16,835.00	18,482.91	2.75	-	657.00	3,876.00	4,533.14	3.18	-	2.51	4.34	4.08
Traditional/Native	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
IRRIGATED																	
Total	161,283.21	145,612.61	129,166.40	21,330.00	53,295.00	559,546.00	634,170.59	94.28	4,907.00	10,586.00	113,674.00	129,166.40	90.62	4.35	5.03	4.92	4.91
Hybrid	36,864.00	34,524.00	25,134.00	-	23,806.00	128,346.00	152,151.14	22.62	-	3,600.00	21,534.00	25,134.00	17.63	-	6.61	5.96	6.05
Inbred-Certified	119,514.21	106,492.61	100,156.40	21,330.00	29,489.00	414,366.00	465,184.65	69.15	4,907.00	6,986.00	88,264.00	100,156.40	70.27	4.35	4.22	4.70	4.65
Farmers'/Good Seeds	4,905.00	4,596.00	3,876.00	-	-	16,835.00	16,834.80	2.50	-	-	3,876.00	3,876.00	2.72	-	-	4.34	4.34
Traditional/Native	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RAINFED																	
Total	18,148.57	15,494.29	13,365.71	9,680.00	19,141.00	9,683.00	38,504.40	5.72	3,114.00	6,337.00	3,914.00	13,365.71	9.38	3.11	3.02	2.47	2.88
Hybrid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inbred-Certified	17,941.43	14,837.14	12,708.57	9,680.00	17,493.00	9,683.00	36,856.28	5.48	3,114.00	5,680.00	3,914.00	12,708.57	8.92	3.11	3.08	2.47	2.90
Farmers'/Good Seeds	657.14	657.14	657.14	-	1,648.00	-	1,648.11	0.25	-	657.00	-	657.14	0.46	-	2.51	-	2.51
Traditional/Native	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UPLAND																	
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hybrid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Inbred-Certified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Farmers'/Good Seeds	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Traditional/Native	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Province:

Table 2. PALAY: Production, area harvested and yield per hectare of standing crop by ecosystem, seed type and month, April-August 2016

ITEM	Area Planted (ha)	PRODUCTION (MT)							AREA HARVESTED (Ha)							YIELD PER HECTARE (MT/Ha)							
		Apr	May	June	Apr-June	July	Aug	July-Aug	Apr	May	June	Apr-June	July	Aug	July-Aug	Apr	May	June	Apr-Jun	July	Aug	July-Aug	
TOTAL																							
Total	78,569.89	276,234.00	74,244.00	14,625.00	365,102.00	-	-	-	59,545.00	15,500.00	3,375.00	78,420.00	-	-	-	4.64	4.79	4.33	4.66	-	-	-	
Hybrid	3,600.00	7,200.00	14,400.00	-	21,600.00	-	-	-	1,200.00	2,400.00	-	3,600.00	-	-	-	6.00	6.00	-	6.00	-	-	-	
Inbred-Certified	72,197.89	257,117.00	59,844.00	14,625.00	331,585.00	-	-	-	55,573.00	13,100.00	3,375.00	72,048.00	-	-	-	4.63	4.57	4.33	4.60	-	-	-	
Farmers'/Good Seeds	2,772.00	11,917.00	-	-	11,917.00	-	-	-	2,772.00	-	-	2,772.00	-	-	-	4.30	-	-	4.30	-	-	-	
Traditional/Native	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IRRIGATED																							
Total	77,255.60	272,764.00	74,244.00	14,625.00	361,633.00	-	-	-	58,231.00	15,500.00	3,375.00	77,106.00	-	-	-	4.68	4.79	4.33	4.69	-	-	-	
Hybrid	3,600.00	7,200.00	14,400.00	-	21,600.00	-	-	-	1,200.00	2,400.00	-	3,600.00	-	-	-	6.00	6.00	-	6.00	-	-	-	
Inbred-Certified	70,883.60	253,647.00	59,844.00	14,625.00	328,115.00	-	-	-	54,259.00	13,100.00	3,375.00	70,734.00	-	-	-	4.68	4.57	4.33	4.64	-	-	-	
Farmers'/Good Seeds	2,772.00	11,917.00	-	-	11,917.00	-	-	-	2,772.00	-	-	2,772.00	-	-	-	4.30	-	-	4.30	-	-	-	
Traditional/Native	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RAINFED																							
Total	1,314.29	3,470.00	-	-	3,470.00	-	-	-	1,314.00	-	-	1,314.00	-	-	-	2.64	-	-	2.64	-	-	-	
Hybrid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Inbred-Certified	1,314.29	3,470.00	-	-	3,470.00	-	-	-	1,314.00	-	-	1,314.00	-	-	-	2.64	-	-	2.64	-	-	-	
Farmers'/Good Seeds	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Traditional/Native	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
UPLAND																							
Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hybrid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Inbred-Certified	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Farmers'/Good Seeds	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Traditional/Native	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Province:

Table 3. PALAY: Area to be harvested based on planting intentions by ecosystem and month, June-November 2016

ITEM	Area to be Planted (ha)				Area to be Harvested (ha)						
	Apr	May	June	Apr-June	June	July	Aug	Sept	July-Sept	Oct	Nov
Total	6,232.90	45,307.04	143,067.69	194,607.63	640.00	2,472.00	23,638.04	74,932.02	101,042.06	92,925.57	-
IRRIGATED	6,232.90	43,149.90	127,093.41	176,476.21	640.00	2,472.00	22,980.90	62,786.30	88,239.20	87,597.00	-
RAINFED	-	2,157.14	15,974.29	18,131.43	-	-	657.14	12,145.71	12,802.86	5,328.57	-
UPLAND	-	-	-	-	-	-	-	-	-	-	-

Reports

- Data Review

Part B1 - Data Review Report				
Sub-sector : <b>Cereals</b>				
Province :		Prepared by :		
Reporting Quarter : <b>JANUARY-MARCH 2016</b>		(Signature over printed name)		
<b>Instruction</b> : Fill up the table below. Use another sheet when necessary.				
Data Item/s Reviewed	Errors/Deficiencies Detected During the Data Review		Actions Taken to Correct Errors/Deficiencies	
1. Sample Status Code	Sample status was skip when result of visit is code 70 resulting to error of "invalid sample status"		Sample status with result of visit is 70 was coded as 30	
2. Yield	Extreme levels. Yield are too high/too low by seed types without remarks.		Verified entries in questionnaire and verified from the Statistical Researchers and supervisor the reason/s	
3. Disposition	Not balanced with the production reported		Verified entries in questionnaire and corrected the errors in the disposition	
4. Household weight	Household weight and HSN were miscopied from the masterlist		Corrected the household weight and the HSN based from the masterlist from CO	
Part B - Data Validation Report				
Sub-sector : <b>Cereals</b>				
Province :		Prepared by :		
Reporting Quarter : JANUARY-MARCH 2016		(Signature over printed name)		
<b>Instruction</b> : Fill up the table below. Use another sheet when necessary.				
Data Item	Reviewed Estimate	Validated Estimate	Procedure to Arrive at the Validated Estimate	Reason for Adjustment
A. Final Estimate				
1. Palay - Irrigated				
a. Production				
Hybrid	5,141	2,395		
Inbred-Certified	2,318	661	Product between firm up area and yield	High survey estimate
Farmers'/Good Seeds	1,077	1,199	Product between firm up area and yield	Low survey estimate
Traditional Native	1,746	535	Product between firm up area and yield	High survey estimate
b. Area Harvested				
Hybrid	1,450	675		
Inbred-Certified	550	157	Based from the MPCSR and staff monitoring	High survey estimate
Farmers'/Good Seeds	300	334	Based from the MPCSR and staff monitoring	Low survey estimate
Traditional Native	600	184	Based from the MPCSR and staff monitoring	High survey estimate
c. Yield/hectare				
Hybrid	3.55	3.55		
Inbred-Certified	4.21	4.21		
Farmers'/Good Seeds	3.59	3.59		
Traditional Native	2.91	2.91		
	#DIV/0!	#DIV/0!		
B. Standing Crop				
1. Palay				
a. Production				
Hybrid	45,191	51,036		
Inbred-Certified	6,084	1,439	Product between firm up area and yield	High survey estimate
Farmers'/Good Seeds	27,268	35,166	Product between firm up area and yield	Low survey estimate
Traditional Native	11,839	19,598	Product between firm up area and yield	Low survey estimate
b. Area Harvested				
Hybrid	11,970	15,009		
Inbred-Certified	1,204	285	Based from accounting of estimates and secondary data from PAO	High survey estimate
Farmers'/Good Seeds	7,157	9,230	Based from accounting of estimates and secondary data from PAO	Low survey estimate
Traditional Native	3,609	5,975	Based from accounting of estimates and secondary data from PAO	Low survey estimate
c. Yield/hectare				
Hybrid	3.78	3.40		
Inbred-Certified	5.05	5.05		
Farmers'/Good Seeds	3.81	3.81		
Traditional Native	3.28	3.28		
	#DIV/0!			
C. Planting Intention				
1. Palay				
a. Irrigated				
- Area	6,369	425	Accounting of areas that will plant	High survey estimate
- Yield	3.59	3.59	Adopt survey result	

## - Narrative Report



Republic of the Philippines  
**PHILIPPINE STATISTICS AUTHORITY**  
 Provincial Statistical Office

### NARRATIVE REPORT ON PCPS APRIL 2016

Hot and sunny weather condition prevailed during the period with light to moderate rain showers combined with isolated thunderstorms.

#### A. PALAY

##### 1. January – March 2016 Crop Estimates

The palay production of 1<sup>st</sup> quarter 2016 has reached around 4,909 MT, up 340.60 percent from the production level forecast of 1,114 MT compared last quarter. This volume of production is also higher by 271.60 percent from same quarters' last year 1,321 MT production estimate. The increment was attributed to more early harvesting in irrigated and rainfed areas due to sunny weather and usage of early maturing varieties. Irrigated palay areas produced 2,395 MT, a 269.60 percent higher than 648 MT a year ago. Rainfed palay areas produced 2,499 MT, 288 percent more than 644 MT productions during the same period last year. However, upland palay areas' production declined 15 MT this quarter or 49 percent lower than 29 MT in 2015.

The total harvest area went up by 260.10 percent to 1,552 hectares from 431 hectares in the same period last year. The increase was brought by the irrigated harvest area posted at 675 hectares, a 249.70 percent higher than last year's 193 hectares. Rainfed harvest area was recorded at 860 hectares, 303.80 percent higher than last year's 213 harvest area. At 17 hectares, upland harvest area was down 32 percent against last year's 25 hectares. Reduction of irrigated and rainfed harvest area was attributed to more harvesting in Trento, Sta. Josefa, San Francisco, Rosario and Loreto areas and usage of early maturing varieties.

Overall yield per hectare this quarter was at 3.16 MT per hectare, up 4.80 percent than last quarter's 3.02 and 3.20 percent from 3.06 MT per hectare yield recorded in the same period in 2016. Yield of irrigated palay fields posted at 3.55 MT per hectare, rainfed at 2.91 MT and upland at 0.87 MT per hectare. The irrigated yield per hectare is up to 5.70 percent compared last year 2015 due to lesser pest and good weather. While the decreased in rainfed of 3.90 percent and 24.90 percent in upland areas compared last year 2015 were affected by continuous extreme heat.

##### 2. April-June 2016 Standing Crop Forecasts

Based on standing crop, production for April-June 2016 is forecasted to be lower by 19.3 percent than the output in the same period in 2015. Decreased output is due to decrease in area to be harvested of all palay fields. Probable harvest area is 36499 hectares or 17.40 percent lower than the 2015 record of 44,715 hectares. Irrigated probable harvest area was at 15,490 hectares, down by 20.3 percent than last year same quarter, rainfed at 20,659 hectares also down by 14.30 percent than last year's 24618 hectares. The decrease was attributed to the early harvesting in January to March 2016 of about 510 hectares in Trento, Sta. Josefa and San Francisco irrigated areas, 673 hectares in Esperanza, San Francisco and Loreto and totally damaged of 17.50 hectares in Esperanza due to extreme heat. Likewise, upland harvestable areas, dropped to 350 hectares from 672 hectares in 2015 same quarter as planting was hampered by dry soil conditions resulting from continuous hot weather.

##### 3. July-September 2016 Planting Intentions

The forecasted production for July-September 2016 based from farmer's planting intention may drop to 6,327 MT or 27.23 percent from 8,694 MT of last year same quarter production level. The decline was contributed by all palay ecosystems in the province because farmers are hesitant to plant due to continuous extreme heat.

Prepared by:

Noted by:

Monthly Palay and Corn Situation Reporting System (MPCRS)

MONTHLY PALAY AND CORN SITUATION REPORTING SYSTEM												MPCRS - FORM 1B (PALAY) (Regional/Provincial Report) Page 1 of 2 pages	
March (Reporting Month) February 1-29, 2016												Reference Quarter: January-March (Quarter's Standing Crop/Planting Intentions)	
Region: _____ Province: _____												PCPS Round: January (JAN/APR/JUL/OCT)	
A. COMPARISON OF QUARTER'S PRESENT CROP SITUATION AND LAST QUARTER'S CROP FORECAST													
Item	Last Quarter's Forecast	P D R					Survey Result					Reason/s for Changes in Quarter's Forecast (Col. 3 and 8 vs Col. 2)	
		Total	Harvested	Vegetative Stage	Reproductive Stage	Maturing Stage	Total	Harvested	Vegetative Stage	Reproductive Stage	Maturing Stage		
(1)	(2)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	
<b>PALAY</b>													
<b>Production (MT)</b>	<b>310,484</b>	<b>311,931</b>	<b>57,730</b>				<b>441,958</b>	<b>80,909</b>					
Hybrid	60,185	60,194	10,300				79,068	-					
Inbred-Certified	209,307	209,945	38,526				361,390	79,409					
Farmers/Good Seeds	40,848	41,641	8,814				1,500	1,500.00					
Trad/Native	144	151	90				-	-					
<b>Irrigated</b>	<b>290,511</b>	<b>291,912</b>	<b>49,477</b>				<b>376,558</b>	<b>38,069</b>					
Hybrid	60,185	60,194	10,300				79,068	-					
Inbred-Certified	194,111	194,727	33,175				297,490	38,069					
Farmers/Good Seeds	36,215	36,991	6,002				-	-					
Trad/Native	-	-	-				-	-					
<b>Rainfed</b>	<b>19,719</b>	<b>19,748</b>	<b>8,101</b>				<b>65,400</b>	<b>42,840</b>					
Hybrid	-	-	-				-	-					
Inbred-Certified	15,196	15,218	5,351				63,900	41,340					
Farmers/Good Seeds	4,523	4,530	2,750				1,500	1,500					
Trad/Native	-	-	-				-	-					
<b>Upland</b>	<b>254</b>	<b>271</b>	<b>152</b>				<b>-</b>	<b>-</b>					
Hybrid	-	-	-				-	-					
Inbred-Certified	-	-	-				-	-					
Farmers/Good Seeds	110	120	62				-	-					
Trad/Native	144	151	90				-	-					
<b>Area Harvested (Ha)</b>	<b>66,232</b>	<b>67,764</b>	<b>13,274</b>	<b>-</b>	<b>13,280</b>	<b>41,210</b>	<b>95,516</b>	<b>24,666</b>	<b>-</b>	<b>25,596</b>	<b>45,254</b>		
Hybrid	9,948	9,999	1,711	-	111	8,177	12,780	-	-	7,260	5,520		
Inbred-Certified	46,077	47,289	8,955	-	10,765	27,569	82,136	24,066	-	18,336	39,734		
Farmers/Good Seeds	10,070	10,329	2,521	-	2,404	5,404	600	600	-	-	-		
Trad/Native	137	147	87	-	-	60	-	-	-	-	-		
<b>Irrigated</b>	<b>59,288</b>	<b>60,738</b>	<b>10,287</b>	<b>-</b>	<b>12,481</b>	<b>37,970</b>	<b>70,916</b>	<b>8,466</b>	<b>-</b>	<b>25,596</b>	<b>36,854</b>		
Hybrid	9,948	9,999	1,711	-	111	8,177	12,780	-	-	7,260	5,520		
Inbred-Certified	41,165	42,332	7,212	-	10,087	25,033	58,136	8,466	-	18,336	31,334	MOH from Q2 due to warm weather.	
Farmers/Good Seeds	8,175	8,407	1,364	-	2,283	4,760	-	-	-	-	-		
Trad/Native	-	-	-	-	-	-	-	-	-	-	-		
<b>Rainfed</b>	<b>6,707</b>	<b>6,769</b>	<b>2,843</b>	<b>-</b>	<b>799</b>	<b>3,127</b>	<b>24,600</b>	<b>16,200</b>	<b>-</b>	<b>-</b>	<b>8,400</b>		
Hybrid	-	-	-	-	-	-	-	-	-	-	-		
Inbred-Certified	4,912	4,957	1,743	-	678	2,536	24,000	15,600	-	-	8,400	MOH from Q2 due to warm weather.	
Farmers/Good Seeds	1,795	1,812	1,100	-	121	591	600	600	-	-	-		
Trad/Native	-	-	-	-	-	-	-	-	-	-	-		
<b>Upland</b>	<b>237</b>	<b>257</b>	<b>144</b>	<b>-</b>	<b>-</b>	<b>113</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>		
Hybrid	-	-	-	-	-	-	-	-	-	-	-		
Inbred-Certified	-	-	-	-	-	-	-	-	-	-	-		
Farmers/Good Seeds	100	110	57	-	-	53	-	-	-	-	-	MOH from Q2 due to warm weather.	
Trad/Native	137	147	87	-	-	60	-	-	-	-	-		

Item	Last Quarter's Forecast	P D R					Survey Result					Reason/s for Changes in Quarter's Forecast (Col. 3 and 8 vs Col. 2)
		Total	Harvested	Vegetative Stage	Reproductive Stage	Maturing Stage	Total	Harvested	Vegetative Stage	Reproductive Stage	Maturing Stage	
(1)	(2)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
<b>Yield per Ha. (MT)</b>	<b>4.69</b>	<b>4.60</b>	<b>4.35</b>				<b>4.63</b>	<b>3.28</b>				
Hybrid	6.05	6.02	6.02				6.19	-				
Inbred-Certified	4.54	4.44	4.30				4.40	3.30				
Farmers/Good Seeds	4.06	4.03	3.50				2.50	2.50				
Trad/Native	1.05	1.03	1.03				-	-				
<b>Irrigated</b>	<b>4.90</b>	<b>4.81</b>	<b>4.81</b>				<b>5.31</b>	<b>4.50</b>				
Hybrid	6.05	6.02	6.02				6.19	-				
Inbred-Certified	4.72	4.60	4.60				5.12	4.50				Affected by cold weather during reproductive stage
Farmers/Good Seeds	4.43	4.40	4.40				-	-				
Trad/Native	-	-	-				-	-				
<b>Rainfed</b>	<b>2.94</b>	<b>2.92</b>	<b>2.85</b>				<b>2.66</b>	<b>2.64</b>				
Hybrid	-	-	-				-	-				
Inbred-Certified	3.09	3.07	3.07				2.66	2.65				Affected by cold weather during reproductive stage
Farmers/Good Seeds	2.52	2.50	2.50				2.50	2.50				
Trad/Native	-	-	-				-	-				
<b>Upland</b>	<b>1.07</b>	<b>1.06</b>	<b>1.06</b>				<b>-</b>	<b>-</b>				
Hybrid	-	-	-				-	-				
Inbred-Certified	-	-	-				-	-				
Farmers/Good Seeds	1.10	1.09	1.09				-	-				Affected by cold weather during reproductive stage
Trad/Native	1.05	1.03	1.03				-	-				

\* For damaged crop, submit corresponding damage report

MONTHLY PALAY AND CORN SITUATION REPORTING SYSTEM  
March

(Reporting Month)

February 1-29, 2016

Region: \_\_\_\_\_  
Province: \_\_\_\_\_

Reference Quarter: **January-March**

(Quarter's Standing Crop/Planting Intentions)

PCPS Round : **January**

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)
		P D R					Survey Result					
		TOTAL	Stage of Crop Growth			Expected Month of Harvest	TOTAL	Stage of Crop Growth			Expected Month of Harvest	
			Vegetative	Reproductive	Maturing			Vegetative	Reproductive	Maturing		
(1)	(2)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
<b>PALAY</b>	<b>79,320</b>	<b>77,479</b>	<b>1,310</b>	<b>72,952</b>	<b>3,217</b>		<b>102,139.20</b>	<b>-</b>	<b>1,680.00</b>	<b>74,061.60</b>	<b>-</b>	
Irrigated	73,885	73,034	1,310	68,706	3,018		97,798		1,680	73,320	22,798	Late planting due to rehabilitation of UCRIS
Rainfed	5,255	4,345		4,186	159	-	4,342			742	3,600	Unrealized planting due insufficient rainfall
Upland	180	100	-	60	40	-	-	-	-	-	-	Unrealized planting due insufficient rainfall

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

NOTED: \_\_\_\_\_  
PSO

Prepared by: \_\_\_\_\_  
STATISTICIAN

Date: **March 15, 2016**



C1. AREA, PRODUCTION, SEED AND IRRIGATION INFORMATION FOR THE FIRST QUARTER (Continued)				Irrigated	Rainfed	Upland
Quantity of seeds used	13. Total number of units			_____ . _____	_____ . _____	_____ . _____
	14. Unit of measure			_____	_____	_____
	15. Weight per unit of measure (kg)			_____ . _____	_____ . _____	_____ . _____
Irrigation system	16. Type of irrigation facility <sup>bl</sup> (Indicate code)			_____	_____	_____
	17. Was the area actually irrigated? (Encircle code)			1 - Yes 0 - No (Go to block C2)	_____	_____
	18. Adequacy of irrigation water (Encircle code)			1 - Adequate 2 - Inadequate	_____	_____
<b>C2. FERTILIZER USAGE FOR THE FIRST QUARTER (JANUARY - MARCH 2017)</b>						
1. Did you apply fertilizer? (Indicate code) 1 - Yes 0 - No (Go to block C3)						
2. Area applied with fertilizer (ha)				_____ . _____	_____ . _____	_____ . _____
3. Quantity of inorganic fertilizer in bag of 50 kg (Specify type and NPK composition) Ex: Urea (46-0-0) Complete (14-14-14)	3.1	NPK (_____)		_____ . _____	_____ . _____	_____ . _____
	3.2	NPK (_____)		_____ . _____	_____ . _____	_____ . _____
	3.3	NPK (_____)		_____ . _____	_____ . _____	_____ . _____
	3.4	NPK (_____)		_____ . _____	_____ . _____	_____ . _____
4. Other inorganic fertilizer applied	4.1 <b>Solid</b>	a. Product name		_____	_____	_____
		b. Fertilizer grade (NPK)		_____	_____	_____
		c. Total number of units applied		_____ . _____	_____ . _____	_____ . _____
		d. Weight per unit (kg)		_____ . _____	_____ . _____	_____ . _____
	4.2 <b>Liquid</b>	a. Product name		_____	_____	_____
		b. Fertilizer grade (NPK)		_____	_____	_____
		c. Total number of units applied		_____ . _____	_____ . _____	_____ . _____
		d. Volume per unit (liter)		_____ . _____	_____ . _____	_____ . _____
5. Organic fertilizer applied	5.1 <b>Solid</b>	a. Product name		_____	_____	_____
		b. Fertilizer grade (NPK)		_____	_____	_____
		c. Total number of units applied		_____ . _____	_____ . _____	_____ . _____
		d. Weight per unit (kg)		_____ . _____	_____ . _____	_____ . _____
	5.2 <b>Liquid</b>	a. Product name		_____	_____	_____
		b. Fertilizer grade (NPK)		_____	_____	_____
		c. Total number of units applied		_____ . _____	_____ . _____	_____ . _____
		d. Volume per unit (liter)		_____ . _____	_____ . _____	_____ . _____
<b>C3. PESTICIDE USAGE FOR THE FIRST QUARTER (JANUARY - MARCH 2017)</b>						
1. Did you apply pesticide? (Indicate code) 1 - Yes 0 - No (Go to block C4)						
2. Area applied with pesticide (ha)				_____ . _____	_____ . _____	_____ . _____
3. Pesticide applied	3.1a. Name of pesticide			_____	_____	_____
	3.1b. Classification <sup>cl</sup> (Indicate code)			_____	_____	_____
	3.1c. Total number of units applied			_____ . _____	_____ . _____	_____ . _____
	3.1d. Unit of measure			_____	_____	_____
	Weight or volume per unit	3.1e. In kilogram (Solid)		_____ . _____	_____ . _____	_____ . _____
		3.1f. In liter (Liquid)		_____ . _____	_____ . _____	_____ . _____
<sup>bl</sup> Type of Irrigation facility: 01 - NIS 02 - CIS-NIA 03 - CIS-LGU 04 - CIS-Private 05 - SWIP/SFR (Non-NIA) 06 - SWIP/SFR (NIA) 07 - Pump (Non-NIA) 08 - Pump (NIA) 09 - SDD 10 - Others (Specify)						
<sup>cl</sup> Pesticide Classification: 1 - Insecticide 2 - Herbicide 3 - Fungicide 4 - Rodenticide 5 - Molluscicide 6 - Nematocide 7 - Others (Specify)						

C3. PESTICIDE USAGE FOR THE FIRST QUARTER (Continued)					
		Irrigated	Rainfed	Upland	
Pesticide applied	3.2a. Name of pesticide				
	3.2b. Classification <sup>cl</sup> (Indicate code)				
	3.2c. Total number of units applied				
	3.2d. Unit of measure				
	Weight or volume per unit	3.2e. In kilogram (Solid)			
		3.2f. In liter (Liquid)			
Pesticide applied	3.3a. Name of pesticide				
	3.3b. Classification <sup>cl</sup> (Indicate code)				
	3.3c. Total number of units applied				
	3.3d. Unit of measure				
	Weight or volume per unit	3.3e. In kilogram (Solid)			
		3.3f. In liter (Liquid)			
4. Botanical extracts/spray applied (organic)	4.1a. Name of botanical extracts/spray				
	4.1b. Classification <sup>cl</sup> (Indicate code)				
	4.1c. Total number of units applied				
	4.1d. Unit of measure				
	Weight or volume per unit	4.1e. In kilogram (Solid)			
		4.1f. In liter (Liquid)			
<b>C4. LABOR INPUTS</b>					
1. During the first quarter, did you hire laborers whether paid in cash or in kind for your palay farm operations? (Indicate code) 1 - Yes 0 - No					
<b>D. PALAY PRODUCTION DISPOSITION</b>					
1. Of your farm's total production (in local unit) for the period JANUARY - MARCH 2017, how many were/will be . . .					
1.01 sold?					
1.02 used for household consumption?					
1.03 share of landowner?					
1.04 paid to farm laborers?					
1.05 used for seeds?					
1.06 used as payment for loans?					
1.07 used as payment for irrigation fee?					
1.08 used for feeds?					
1.09 post harvest wastage/losses?					
1.10 given away					
1.11 used as payment for rentals					
<b>TOTAL</b>					
<b>E. PALAY PRODUCTION FORECAST (on standing crop)</b>					
1. Do you have standing palay on your farm as of March 31, 2017? (Encircle code) 1 - Yes 0 - No, (Go to block F, page 4)					
2. Type of ecosystem (Encircle code/s)	1 - Irrigated	2 - Rainfed	3 - Upland		
3. Type of seed planted <sup>al</sup> (Indicate code)					
4. Month when crop will be harvested (Encircle code)	04 - Apr 05 - May 06 - Jun 07 - Jul 08 - Aug	04 - Apr 05 - May 06 - Jun 07 - Jul 08 - Aug	04 - Apr 05 - May 06 - Jun 07 - Jul 08 - Aug		
5. Area to be harvested (ha)					
<sup>a/</sup> Type of seed planted : 1 - Hybrid 2 - Inbred - Certified 3 - Farmers/Good seeds 4 - Traditional/Native					
<sup>cl</sup> Pesticide Classification: 1 - Insecticide 2 - Herbicide 3 - Fungicide 4 - Rodenticide 5 - Molluscicide 6 - Nematocide 7 - Others (Specify)					

<b>E. PALAY PRODUCTION FORECAST (Continued)</b>		Irrigated	Rainfed	Upland					
Quantity of dry palay to be produced (14% moisture content)	6. Total number of units	_____	_____	_____					
	7. Unit of measure	_____	_____	_____					
	8. Weight per unit of measure (kg)	_____	_____	_____					
9. Month when crop was planted (Encircle code)		12 - Dec 01 - Jan 02 - Feb 03 - Mar	12 - Dec 01 - Jan 02 - Feb 03 - Mar	12 - Dec 01 - Jan 02 - Feb 03 - Mar					
10. Area planted to crop that will be harvested (ha)		_____	_____	_____					
<b>F. PALAY PLANTING INTENTIONS</b>									
1. Do you intend to plant palay on your farm anytime from April - June 2017? (Encircle code) 1-Yes 0-No, (Go to block G)									
2. Type of ecosystem (Encircle code)		1 - Irrigated	2 - Rainfed	3 - Upland					
3. Month when crop will be planted (Encircle code)		04 - Apr 05 - May 06 - Jun	04 - Apr 05 - May 06 - Jun	04 - Apr 05 - May 06 - Jun					
4. Area to be planted (ha)		_____	_____	_____					
5. Month when crop will be harvested (Encircle code)		06 - Jun 07 - Jul 08 - Aug 09 - Sep 10 - Oct	06 - Jun 07 - Jul 08 - Aug 09 - Sep 10 - Oct	06 - Jun 07 - Jul 08 - Aug 09 - Sep 10 - Oct					
<b>G. RESPONDENT'S ASSESSMENT OF THE HOUSEHOLD PALAY PRODUCTION</b>									
(For sample households that harvested palay during JANUARY - MARCH 2017)									
1. Was your farm's production in January - March 2017 larger than, smaller than, or about the same as your farm's palay production in the same quarter of 2016? (Encircle code) 1 - Larger than in 2016 2 - Smaller than in 2016 3 - About the same, go to block H 4 - No harvest last year, go to block H									
2. What was/were the reason/s for the change in production? (Encircle code/s and explain further the reason/s)									
1 - Change in area _____									
2 - Weather effects _____									
3 - Pests and diseases _____									
4 - Seeds _____									
5 - Fertilizer _____									
6 - Irrigation services _____									
7 - Others (Specify) _____									
<b>H. FARMER'S PARTICIPATION IN RICE PROGRAM</b>									
1. Are you aware of any government program on rice? (Encircle code) 1 - Yes 0 - No									
2. Have you availed of any benefit from government program on rice? (Encircle code) 1 - Yes 0 - No, end interview									
3. Which of the following program benefits and services have you availed? (Encircle code/s and provide details)									
1 - Seeds _____		5 - Post harvest facilities _____							
2 - Fertilizer and other inputs _____		6 - Marketing assistance _____							
3 - Training on farming technology _____		7 - Loans _____							
4 - Irrigation facilities _____		8 - Others (Specify) _____							
4. Which of the availed benefits/were used in your palay production during the January - March 2017 harvest? (Check box/es)									
<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6	<input type="checkbox"/> 7	<input type="checkbox"/> 8	<input type="checkbox"/> 9	None
<b>I. STATISTICAL RESEARCHER, SUPERVISOR, PSO AND ENCODER IDENTIFICATION</b>									
1. NAME AND SIGNATURE OF STATISTICAL RESEACHERS :		Contact no.	Date :	_____					
2. NAME AND SIGNATURE OF FIELD SUPERVISOR :		Contact no.	Date :	_____					
3. NAME AND SIGNATURE OF PSO :		Contact no.	Date :	_____					
4. NAME AND SIGNATURE OF ENCODER :		Contact no.	Date :	_____					



**PHILIPPINE STATISTICS AUTHORITY**

Crops Statistics Division

16<sup>th</sup> Floor, Eton Cyberpod Centris 3, EDSA corner  
Quezon Avenue, Diliman, Quezon City

[www.psa.gov.ph](http://www.psa.gov.ph)