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PHILIPPINE STATISTICS AUTHORITY

Palay Production Survey

Manual of Operations for Statistical Researchers

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 collection of data of this survey is undertaken by hired Statistical Researchers (SRs). The SRs are trained prior to field operation to ensure that the procedures and concepts are understood. The training includes mock interviews and dry-run exercises.

This manual aims to guide the SRs to carry-out their duties and responsibilities during data collection. This contains basic concepts and definition of terms, techniques in conducting an interview, procedures in filling out the questionnaire and manual editing of accomplished questionnaires. It is hoped that the proper use of this Manual among SRs will contribute to the attainment of timely and quality data for palay.

2. The Palay Production Survey

The Palay Production Survey (PPS) is a quarterly survey which covers sample farming households in sample barangays in 79 provinces except Batanes including 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:

| Survey Round | Reference Period |
|---------------|------------------|
| 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. Field Operations Procedures

This section discusses the role of SRs and strategies in data collection, particularly in locating the sample households and guidelines for interviewing to ensure the quality of data gathered in this survey. The role of SRs and strategies in data collection specified in this manual are common across various PSA surveys.

3.1 Role of Statistical Researchers

1. Sign a Contract of Services and abide by the terms and conditions stipulated in it.
2. Attend orientation training on concepts used in the survey and field operation procedures. This training is important for better understanding of why the survey is being conducted, what the data collection will demand and who will be working with you as part of the team. During the orientation training, this field operations manual will be provided to you. Use it as reference throughout the data collection period.
3. Locate and interview the sample households in accordance with the prescribed concepts and procedures using the questionnaire. As a field interviewer, you play a significant role in the success of this survey since you will be in direct contact with the sample households. Your professionalism, confidence and knowledge about the survey are keys to your success.
4. Report to the supervisor the progress of work and problems encountered during enumeration. Working closely with your field supervisor is very important. Do not hesitate to contact the field supervisors with any questions or challenges encountered during data collection period.
5. Ensure completeness, correctness, and consistency of information gathered from the respondents. Make sure to review the accomplished questionnaire before proceeding to the next sample household.
6. Make callbacks or return to the sample household not contacted at most three visits on different days.
7. Update the masterlist of sample based on the sample status and result of visit after the enumeration is done in the sample barangay.

8. Submit the accomplished survey returns, masterlist of sample and Manual of Operation for Statistical Researcher to the field supervisor on or before the target date.
9. Secure a certificate of appearance from the barangay official.

Legal Authority: Republic Act No.10625 known as the Statistical Act of 2013

Confidentiality of Information: Section 26 of RA No. 10625 and Article 55 of the Implementing Rules and Regulations of RA No. 10625 states that individual data furnished by a respondent to statistical inquiries, surveys and censuses of the PSA shall be considered privileged communication and as such shall be inadmissible as evidence in any proceeding. The PSA may release aggregated information from statistical inquiries, surveys and censuses in the form of summaries or statistical tables in which no reference to an individual, corporation, association, partnership, institution or business enterprise shall appear.

3.2 Data Collection

Steps in Locating the Sample Households

1. Locate the sample barangay. Follow the usual protocol of paying a courtesy call to the barangay official. Inform him/her about the survey and its purpose. Seek his/her permission to undertake data collection in the area.

As representatives of the Philippine Statistics Authority (PSA) in this barangay, you should perform your duties in an efficient and professional manner. You must be courteous in your interactions with barangay official/s as well as with the respondents and their families. As you seek permission to conduct the survey in the locality, making a good impression is a key to carrying your tasks smoothly, thus personal appearance and knowledge of the subject matter is a must.

2. Proceed to the first sample household.
3. Introduce yourself and explain the purpose of the survey. Give assurance that the information to be gathered will be handled strictly confidential.

SR must maintain confidentiality at all times. Be careful not to discuss any aspects of the data when in a public location. Never leave any document with a sample name and contact information lying around where it can be viewed. Safeguard accomplished questionnaire until you deliver them to your respective field supervisors.

4. Determine if, a qualified respondent is available for interview in the sample household. If so, conduct the interview using the PPS questionnaire.

A **qualified respondent** is a responsible adult household member, not necessarily the household head, who is **knowledgeable** of the household's palay farm operation and **willing** to provide reliable information for the survey.

5. Locate the next potential sample household in the list.

Guidelines for Interviewing

Whom to Interview

The respondent must be the sample household head and/or any member of the household who has the knowledge of the palay farming of the household.

How to Conduct Interview

1. Be polite.

People will react to you differently. However, you must always remain cordial and polite.

2. Introduce yourself and the survey. As an introduction, you may say the following:

“Good morning/afternoon. I am (state your name, show your PSA ID), a statistical researcher of the Philippine Statistics Authority. We are currently conducting Palay Production Survey in the province. I would appreciate your cooperation very much in answering the questions in this undertaking. Please be assured that all your answers will be treated confidential.”

3. Explain the Objectives

It is necessary to explain the objectives of the survey to gain cooperation from a person. Explain to him/her the objectives as well as the importance of the survey.

“Know the objectives of the survey and the purpose of each of the items in the questionnaire.”

4. Ask all questions.

Never assume answers. Ask all questions though you already have an idea of the answers to some of these questions. What you think may not be the right answers.

5. Probe if the respondent's answer is not satisfactory.

Do not settle for unsatisfactory answer. You can do any of the following:

- repeat the question
- ask for an estimate, if appropriate
- pause to give the respondent time to think

6. Handle hesitant respondent tactfully.

7. Make the respondent at ease and comfortable.

8. Do not be in hurry in conducting the interview.

9. Thank the respondent for his/her cooperation.

Always try to leave the respondent with a good feeling toward the survey. Express your appreciation for the respondent's cooperation.

10. After each interview, review all the different pages of the questionnaire for possible omissions of entries.

How to Ask Questions

1. Ask the questions as they are worded in the questionnaire. If the interview is conducted in any dialects, be sure to translate the question in such a way that you do not change the meaning of the question. A test of a good translation is that you should have the same wordings as in the questionnaire when you translate back to English.

2. Unless otherwise instructed, ask the questions in the order that they are presented in the questionnaire. Verify if all pages of the questionnaire are accounted for.

3. Never ask a leading question that suggests the answer. By asking a leading question, the respondent's mind is set into believing that the answer suggested by the question is the right one. Example of a leading question: “Do you normally apply 5 bags of 50 kgs of urea fertilizer in one hectare?”

4. Do not interrupt the respondent unless necessary.
5. Finish recording an answer before asking the next question.

4. Survey Questionnaire

4.1 Major Components of the Questionnaire

The questionnaire consists of nine (9) blocks. At the uppermost portion of the first page is the title portion which contains the name of the survey, implementing agency, and the survey period.

At the upper right portion is the Approval Number: **PSA-1717** and the expiration of the clearance granted for the conduct of the survey. At the upper left portion is the legal authority and confidentiality clause which states that all information contained in the questionnaire is held strictly confidential.

The different blocks of the questionnaire and its location are as follows:

| Block | Title | Page No. |
|-------|---|----------|
| A | Sample Identification | 1 |
| B | Sample Particulars | 1 |
| C | Information on Palay Harvested | 1 |
| C1 | Area, Production, Seed and Irrigation Information for the First Quarter (January to March 2017) | 1-2 |
| C2 | Fertilizer Usage for the First Quarter (Jan. to March 2017) | 2 |
| C3 | Pesticide Usage for the First Quarter (Jan. to March 2017) | 2-3 |
| C4 | Labor Inputs | 3 |
| D | Palay Production Disposition (All Ecosystems) (January to March 2017) | 3 |
| E | Palay Production Forecast (On Standing Crop) | 3-4 |
| F | Palay Planting Intentions (April to June 2017) | 4 |
| G | Respondent's Assessment of the Household Palay Production | |
| H | Farmer's Participation in Rice Program | 4 |
| I | Statistical Researcher, Supervisor, PSO, and Processor Identification | 4 |

4.2 General Instructions



3.0000

1. Use soft lead pencil in filling out the form.
2. Accomplish the questionnaire properly and neatly. Write legibly.
Erase neatly all erroneous entries.
3. Translate verbatim answers to English after the interview.
4. Enter all numerical answers in the appropriate answer boxes. Most of the answer lines requiring numerical entries are provided with decimal points. The underline space/s at the right of the decimal points is/are lines representing the number of decimal places required of a numerical response.
5. For pre-coded answers, **encircle** the appropriate code/s or **write** them in the answer boxes provided.
6. For multiple answers, use a slash “/” to separate the answers.
7. Do not leave blank any answer space. A blank answer space may otherwise mean that the corresponding question was not asked. If the answer to a question is none or the question is not applicable, enter a dash (-) in the corresponding answer space(s) or draw a horizontal line along the question item to show that there is no entry for such item.
8. If the entire section or sub-section of the questionnaire has no entry, cross out the whole section or sub-section to indicate that it has not been skipped.
9. For additional information, use the back pages of the questionnaire and indicate the specific item.
10. Before leaving the respondent's premises, go over the entire questionnaire to make sure that not a single item has been missed.

① - Yes 2 - No

4.3 Instructions in Filling-Out the Questionnaire

Block A. SAMPLE IDENTIFICATION

- For items 1 to 7, copy from the list of samples (MASTERLIST) the name and code for the region, province, municipality and barangay, the stratum and replicate number and the household weight.
- For item 8, indicate the household code. This is a five-digit serial number of the sample household indicated on the list of samples (MASTERLIST). The first two (2) digits represent the enumeration area (EA) code and the last three digits represent the PSA-assigned household code.

| A. SAMPLE IDENTIFICATION | | | | | | |
|--------------------------|----------------|---|---|------------------------------|------|---|
| 1. Region | Cagayan Valley | 0 | 2 | 5. Stratum | 0 | 9 |
| 2. Province | Cagayan | 1 | 5 | 6. Replicate | 0 | 1 |
| 3. Municipality | Solana | 2 | 7 | 7. Household weight | 1.00 | |
| 4. Barangay | Cadaanan | 0 | 0 | 8. Household code (EA - HSN) | 0 | 0 |
| | | | | | 1 | 5 |
| | | | | | 8 | |

Block B. SAMPLE PARTICULARS

Item 1. Name of agricultural operator - Copy the complete name of the sample farm operator from the list of samples on the space provided following the last name, first name and middle name format.

Item 2. Sample status - This seeks to obtain information on the status of the sample household during the survey period, which should be determined by both the Statistical Researcher (SR) and the field supervisor. The SR will be the one to categorize the sample household either as palay household, non-palay household or non-agricultural household during the data collection phase. Below are the specific guidelines on how to accomplish Item 2 (Sample Status).

| B. SAMPLE PARTICULARS | | | |
|--|---|-------------------------|--------------|
| 1. Name of agricultural operator (Complete name) | Saddul (Last name) | Domingo (First name) | C. (M.I.) |
| 2. Sample status (Encircle code) | 10 - Palay household 20 - Non-palay household (Ask items 3 to 5 then end interview) 30 - Non-agricultural household (Ask item 3 then end interview) | | |
| NOTE: This portion is to be accomplished after the interview | | | |
| 2.1 Result of visit (Encircle code) | 2.3 Full name of informant _____ | | |
| 40 - Interview completed | 2.4 Designation of informant (Encircle code and end interview) | | |
| 50 - Interview not completed | 1 - Barangay/Purok official | | |
| 60 - Refused to be interviewed | 2 - Neighbor | | |
| 70 - Target respondent not contacted (Ask items 2.2 to 2.4) | 3 - Other household member | | |
| 2.2 Reason for code 70 (Encircle code) | 3. First name of respondent _____ | | |
| 71 - Temporarily away/Not at home | 4. Respondent's classification (Encircle code) | | |
| 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 (ha) | 1 | 5 | 0 0 0 0 |
| 6. Total palay area (ha) | 1 | 0 | 0 0 0 0 |

| Sample Status | Definition | Instruction |
|------------------------|---|--|
| Palay household | <p>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:</p> <p>Example: For April 2017 Round Survey</p> <ol style="list-style-type: none"> Household harvested palay during January to March 2017. Household has standing palay crop in the farm as of March 31, 2017 to be harvested during April to June 2017. Household intends to plant palay within April to June 2017 that will be harvested in July to September 2017; and The land is temporarily in-fallow but the respondent declares that it is devoted to palay production. | <p>Encircle code 10 in Item 2, and continue with the interview. Fill up item 2.1 by encircling the appropriate code after the end of the interview.</p> <p>Nine-month period</p> |

| Sample Status | Definition | Instruction |
|-----------------------------------|--|---|
| 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. | Encircle code 20 in Item 2, ask Items 3 to 5 then end interview. |
| Non-agricultural household | The sample household does not operate an agricultural land e.g., agricultural operator dies/gives up agricultural operation and nobody within the same household takes over. | Encircle code 30 in Item 2, ask Item 3 then end interview. |

The SR should be very careful in determining the status of the sample household. Always bear in mind that the data to be gathered refer to the entire household and not only to the person identified in the list of samples. For example, the listed farm operator

has given up farming; the SR should first consider the following cases in categorizing the sample household:

| Case | Instruction | Sample Status |
|---|--|--|
| Case 1 - Operation of the farm is transferred to another member of the household. | Cancel out the listed operator's name and indicate above it the new operator's name | Ask if palay household, or non-palay household, and encircle the appropriate code. |
| Case 2 - Operation is transferred to a person who is not a member of the same household, but there is still another member of the same house who is an agricultural operator | Cancel out the listed operator's name and indicate above it the name of the household member who is an agricultural operator as the new operator. In case there are multiple agricultural operators in the same household, choose the one with the <u>biggest agricultural area</u> to replace the listed operator. | Ask if palay household, or non-palay household, and encircle the appropriate code. |
| Case 3 - Operation is transferred to a person who is not a member of the same household, and nobody from the same household is an agricultural operator. | Retain the listed name and classify the sample household as 'non-agricultural' | Encircle the code for non-agricultural household. |

Note: Reflect all corrections made as to the name of agricultural operator as well as the status of the sample household in both the questionnaire and list of samples (Masterlist-Frame Maintenance Form).

The following items of the **SAMPLE PARTICULARS** are to be accomplished after the interview:

| | |
|--|---|
| NOTE: This portion is to be accomplished after the interview | |
| 2.1 Result of visit (Encircle code) 40 - Interview completed 50 - Interview not completed 60 - Refused to be interviewed 70 - Target respondent not contacted (Ask items 2.2 to 2.4) | 2.3 Full name of informant <u>Lee Mar G. Abegornia</u> 2.4 Designation of informant (Encircle code and end interview) 1 - Barangay/Purok official 2 - Neighbor 3 - Other household member |
| 2.2 Reason for code 70 (Encircle code) 71 - Temporarily away/Not at home 72 - Area temporarily not accessible 73 - Resides outside the sample barangay 74 - Unknown in the locality | 3. First name of respondent <u>Domingo</u> 4. Respondent's classification (Encircle code) 1 - Household head and operator 2 - Operator other than household head 3 - Other knowledgeable member of the household |

2.1 Result of visit *(Encircle code)*

40 – Interview completed. The interview is said to be completed when the data collector could collect all the required information from the respondent.

50 – Interview not completed. It is the case of not getting all the required data especially when the respondent avoided or stopped giving information on the household's palay farming activities

60 – Refused to be interviewed. This is the case wherein the respondent does not want to provide any information at all. Ask item 3 and 4.

70 – Target respondent not contacted. If the SR was not able to contact the sample farmer, he/she should ask items 2.2 to 2.4.

2.2 Reason for code 70. Enumerated here are the possible reasons why the target respondent may not be contacted. It could be that the sample farmer is temporarily away or not at home, area of the household is temporarily not accessible, target respondent resides outside the sample barangay and the sample is unknown in the locality. Encircle the code of the appropriate reason.

71 – Temporarily away/Not at home

72 – Area temporarily not accessible

73 – Resides outside the sample barangay

74 – Unknown in the locality

2.3 Full name of informant. Ask the name of the informant and indicate in the space provided. This item must be filled up if the answer for item 2.1 is code 70.

2.4 Designation of informant. Determine the designation of the informant and encircle code, then end the interview. Encircle code and end interview.

1 - Barangay/Purok official

2 - Neighbor

3 - Other household member

Item 3. First name of respondent. A respondent refers to the person being interviewed. He/she is a responsible member of the household who provides reliable answers to queries related to the household's palay farming operations.

Ask the first name of the respondent and write it down on the space provided. In case there are two (2) or more persons being interviewed, the one who provides most of the answers needed should be reported as the respondent.

If the household member/s knowledgeable on the farm operation of the household is/are not available, inquire when you can most likely interview them so that a re-visit (call back) can be scheduled.

Item 4. Respondent's classification. Encircle the appropriate respondent code.

- 1 - Household head and operator
- 2 - Operator other than household head
- 3 - Other knowledgeable member of the household

Item 5. Total agricultural area. Ask the respondent for the sample household of the TOTAL AGRICULTURAL AREA operated by the household. This includes agricultural areas within the province and those located in other parts of the country. Indicate area in hectares and in four (4) decimal places.

Note: Non-palay households are still to be asked regarding their total agricultural area, since these households, even not producing palay, still contributes to the total agricultural area.

Item 6. Total palay area. Get the TOTAL PHYSICAL AREA of the palay farm operated by the sample household within the province and those located in other parts of the country.

This includes palay areas acquired by the sample household as of the date of interview, and those palay areas being operated by the sample household which are temporarily

in fallow during the reference period. This excludes areas which were previously part of the farm but are no longer part of it because of sale (including farming rights), giving up of lease or tenancy rights, abandonment of squatted areas, etc.

Enter area in hectares and in four (4) decimal places. If the household operates more than one parcel, inquire on the number of parcels being operated and the corresponding area. Indicate the sum of areas of all the palay parcels in item 6. Some validating techniques to determine area are the quantity of seeds used, production, tractor fee, etc.

Lands temporarily in-fallow. These are lands which are allowed to stay idle for a period at most two (2) cropping seasons in order to recover its fertility after which it will again be planted to crops.

Block C. INFORMATION ON PALAY HARVESTED

This portion of the questionnaire gathers detailed information on palay harvested during the period (January to March 2017).

Sub-Block C1 – AREA, PRODUCTION, SEED and IRRIGATION INFORMATION for the FIRST QUARTER (JANUARY – MARCH 2017)

This block will gather information on palay production, harvest area by type of ecosystem, seed class and quantity of seeds used, planting method and irrigation system during the period January to March 2017.

Item 1. Did you harvest palay during the period January - March 2017? – Ask the respondent if he/she harvested palay in any of its parcels anytime during the period January – March 2017 and encircle Code 1 for Yes or Code 0 for No. If No, go to Block E on page 3.

| C. INFORMATION ON PALAY HARVESTED | | | | |
|---|------------------------------------|---|--|--|
| C1. AREA, PRODUCTION, SEED AND IRRIGATION INFORMATION FOR THE FIRST QUARTER (JANUARY - MARCH 2017) | | | | |
| 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 ^{a/} (Indicate code) | | 1 | | |
| 4. Area harvested (ha) | | 1. 0 0 0 0 | | |
| 5. Month harvested (Encircle code) | | 02 - Jan 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 | 180 0 0 | | |
| | 7. Unit of measure | cavan | | |
| | 8. Weight per unit of measure (kg) | 50. 0 0 | | |
| 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) | | 1. 0 0 0 0 | | |
| 11. Name of the variety planted (Specify local or commercial name) | | NSIC Rc114H (Mestizo 2) | | |
| 12. Method of crop establishment (Encircle code) | | 1 - Transplanting 2 - Direct seeding | 1 - Transplanting 2 - Direct seeding | 1 - Transplanting 2 - Direct seeding |
| ^{a/} Type of seed planted: 1 - Hybrid 2 - Inbred - Certified 3 - Farmers' Good seeds 4 - Traditional/Native | | | | |

Item 2. Type of ecosystem – Encircle the code/s of ecosystem where the farmer harvested his/her palay. Three columns are allotted assuming that a farmer operates farms of more than one type of ecosystem. This hold true up to Block C4 (Labor Inputs).

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.

Three (3) pre-coded types of ecosystems are provided:

Code 1 – Irrigated. Area with irrigation facilities supplying water through artificial means like gravity, force/power, pump, etc. Irrigated area become rainfed only, when the irrigation system is no longer operational for the past two (2) years and beyond repair and there is no plan of irrigating the farm.

Code 2 – Rainfed. Palay grown on this ecosystem has dikes that retain water and is solely dependent upon rainfall for its water supply. Rainfed can be converted to irrigated only, if the area is laid with permanent irrigation facility.

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

Encircle code 1 for irrigated type of farm, code 2 for rainfed and code 3 for upland. If a certain farmer operates farms of more than one (1) type of ecosystem, see to it that the information gathered are indicated under each appropriate column.

Thus, it is advised to gather all the required information, from Sub-Block C.1.3 up to Block C4 of the questionnaire for the first type of ecosystem before proceeding to the next type of ecosystem.

Item 3. Type of seed planted – Indicate the code of the major type/class of palay seed planted. Four (4) pre-coded major types/classes of palay seeds are provided at the bottom of the questionnaire. They are as follows:

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

the yield. Examples of hybrid varieties are NSIC 2009 Rc218SR (Mabango 3), NSIC 2009 Rc220SR (Japonica), NSIC 2010 Rc224 (Tubigan 19), NSIC 2010 Rc226 (Tubigan 20), NSIC 2010 Rc228H (Mestiso 24), NSIC 2010 Rc230H (Mestiso 25), NSIC 2010 Rc232H (Mestiso 26), NSIC 2010 Rc234H (Mestiso 27), and NSIC 2010 Rc236H (Mestiso 28).

Code 2 – Inbred-certified. An inbred palay variety is the product of self-pollination or the transfer of pollen from the anther to the stigma of the same flower. Thus, only one palay plant is needed to produce its seeds. Seeds harvested from an inbred variety can still be used for the next planting season without much reduction in the quality and quantity of the yield, provided rouging was regularly done. All IR, NSIC Rc, and traditional varieties are inbred, except NSIC Rc26H (Magat), NSIC Rc72H (Mestizo 1), and NSIC Rc 76H (Panay).

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

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

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

Item 4. Area harvested. This refers to the total area harvested to palay during the reference quarter. It may be less than or equal to the total area planted to palay. Ascertain first whether the entire area planted was harvested during the reference quarter by asking the respondent the screening question:

“Were you able to harvest the entire (irrigated/rainfed/upland) area you planted to the crop?”

If the answer is yes, the SR may already ask for the area planted and record the response in Item 10. If the answer is no, meaning there was a DECREASE in area, determine the ACTUAL area of palay that was harvested during the reference quarter and write it down on the space provided.

If the farmer finds difficulty in giving the area harvested, resort to deeper probing by asking question on the household's ACTUAL PRODUCTION and YIELD PER HECTARE to estimate the area. This estimation technique, however, can be used by the SR in consultation with the PSA field supervisor. After estimating the area based on this technique, try to confirm with the respondent if the estimated area is within acceptable range for him.

Item 5. Month harvested. Ask for the month when the crop was harvested for each type of ecosystem. Encircle the month's code on the space provided. It is possible that harvestings were not done within the same month especially when the household has several parcels. In such case, **use the major portion concept**.

Items 6 to 8. Quantity of dry palay produced. This refers to the household's GROSS PRODUCTION in dry weight during the reference quarter. **Dry weight** refers to the weight of palay with about 14% moisture content and ready for storing. In case the reported quantity of palay produced in item 8 is not at 14% moisture content, apply the conversion factors on the table below.

Conversion Factors from fresh weight to dry weight

| PALAY CONVERSION FACTORS | | |
|--------------------------|------------------|-------------------|
| Item | Moisture Content | Conversion Factor |
| Fresh | >18% | 0.8737 |
| Skin Dry | 14.1%-18% | 0.9587 |
| Dry | 14% | 1.0000 |

Dry Weight (14% MC) = (Fresh Weight or Skin Dry) x Conversion Factor

Item 6. Total number of units. Determine from the respondent the total or gross volume of palay produced in dry weight during the reference quarter and indicate it in two (2) decimal places on the space provided. If the respondent finds difficulty in determining the gross production from fresh weight into dry weight, consider the responses of the sample households within the barangay to come up with the conversion factor.

Item 7. Unit of measure. Ask the unit of measure used in getting the volume of production in dry weight of the crop, e.g., sack, ganta, kerosene can, etc., and indicate it on the space provided.

Item 8. Weight per unit of measure. Ask for the equivalent dry weight in kilograms of palay contained per unit of measure reported. Enter the response in two (2) decimal places on the space provided. If the respondent gives a range of weight, ask for the average equivalent weight per unit of measure used in measuring the farm's harvest.

Item 9. Month planted. Ask for the specific month of planting of the harvested crop and encircle its code on the space provided. If plantings were not done within the same month, use the major-portion concept.

Item 10. Area planted. Record in hectares and in four (4) decimal places the area planted to the harvested crop.

If the respondent cannot give at once the required area, explain to him that the figure being asked for is only the area planted to palay that was harvested during the reference quarter. If he still finds difficulty in giving the required answer, resort to deeper probing by asking questions on farm activities paid on per-hectare basis such as tractor fee. Another option is to ask for the quantity of seeds used and the planting method to derive the area accordingly. Again, this derivation technique can be done only by the SR in consultation with the PSA supervisor. Try to confirm from the respondent if he finds the result within the acceptable range.

Item 11. Name of the variety planted. Ask the respondent about the variety of palay planted. Specify the local or commercial name and indicate on the space provided.

Item 12. Method of crop establishment. Ask the respondent on the method how the crop was established. There are two pre-coded methods provided in the questionnaire which are transplanting and direct seeding. If both methods were used, apply the major-portion concept.

Code 1 – Transplanting method (Lipat-tanim). This is a method of crop establishment wherein germinated seeds are broadcasted on seedbed. They are being transplanted as young seedlings of 5 to 30 days old, either at random or in straight rows on paddies.

Code 2 – Direct seeding. This could either be in dry seeding or wet seeding method. In dry seeding, seeds are drilled either along furrows or contours in the field, while in wet seeding (Sabog-tanim), germinated seeds are broadcasted uniformly to the prepared paddies.

Items 13 to 15. Quantity of seeds used. These items are intended to determine the amount of seeds transplanted/direct seeded corresponding to the harvested crop.

| C1. AREA, PRODUCTION, SEED AND IRRIGATION INFORMATION FOR THE FIRST QUARTER (Continued) | | | | |
|---|---|------------------------------------|---------|--------|
| | | Irrigated | Rainfed | Upland |
| Quantity of seeds used | 13. Total number of units | 1. 0 0 | | |
| | 14. Unit of measure | bag | | |
| | 15. Weight per unit of measure (kg) | 20. 0 0 | | |
| Irrigation system | 16. Type of irrigation facility ^{bl} (Indicate code) | 01 | | |
| | 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 | | |

^{bl} 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)

Item 13. Total number of units. Ask for the total volume of seeds used in all parcels that were harvested during the reference period and enter the response in two (2) decimal places on the space provided.

Item 14. Unit of measure. This refers to the unit of measure used in quantifying the volume of seeds transplanted/directly seeded.

Item 15. Weight per unit of measure. Ask for the average weight per unit of measure of seeds used in kilograms. Entries must be in two (2) decimal places. Farmers who bought seeds tend to identify the type and weight of seeds used through **Tagging**. It is a system in classifying the seeds using various colors by the seed dealers. Examples are:

- Foundation seeds - Red tag - 40 kilograms
- Registered seeds - Green tag - 40 kilograms
- Certified seeds - Blue tag - 40 kilograms
- Hybrid seeds (Transplanting) - 15-20 kilograms
- (Direct Seeding) - 30-40 kilograms

Items 16 to 18. Irrigation system. These items solicit information on irrigation for type 1 ecosystem (irrigated) only and should be SKIPPED if the harvested crop is either rainfed or upland.

Item 16. Type of irrigation facility. Ask for the major type of irrigation facility that covers the palay farm and indicate the appropriate code. The types of irrigation facilities are enumerated at the bottom of the questionnaire as follows:

Code 1 – NIS (National Irrigation System) – A government irrigation system built or constructed and managed by the National Irrigation Administration (NIA) to provide continuous supply of water for agricultural purposes to farmers in exchange for a fee.

Code 2 – CIS - NIA assisted

Code 3 – CIS - LGU (Local Government Unit) assisted

Code 4 – CIS - Private

CIS (Communal Irrigation System). Irrigation facilities constructed by the NIA and turned over to Irrigators Associations (IA) upon completion. Operation and maintenance become the responsibility of the IAs which in turn collects direct operating cost of the project from farmer members.

Code 5 – SWIP/SFR (Non-NIA)

Code 6 – SWIP/SFR (NIA)

SWIP (Small Water Impounding Project). A structure constructed across a narrow depression or valley developed as a reservoir that holds-back water and that store rainfall and run-off during the rainy season. Its structural height does not exceed 30 meters and has a volume storage not exceeding 50 million cubic meters. The average service area of SWIP is about 60 hectares (25-150 hectares).

SFR (Small Farm Reservoir). A small version of SWIP and is designed to collect and store rainfall and run-off for use in a single farm. It has a reservoir area of about 300–5,000 square meters and can serve 0.50 – 1.00 hectare. The embankment height above ground level is 4 meters and below. It can easily be constructed by usual manual digging or through a bulldozer. Irrigation is done with the use of a PVC siphon pipes or pumps.

Code 7 – Pump (Non-NIA)

Code 8 – Pump (NIA)

Pumps (STW or Shallow Tube Well, open source pump). An irrigation device provided personally by the operator for his/her farm's irrigation needs. It could be rented, borrowed or owned by him or any other member of his/her household

Code 9 – SDD (Small Diversion Dam). A channel and supporting ridge constructed across the slope to collect and divert run-off. The purpose of this practice is to divert excess surface water from one area for use or safe disposal.

Code 10 – Others (specify). Includes those not previously classified.

Item 17. Was the area actually irrigated? Ask the respondent if the area was actually irrigated during the period and encircle the appropriate response, Code 1 for YES and Code 0 for NO. For NO reply, skip item 18 and go to C2.

Item 18. Adequacy of irrigation water. Ask the respondent's opinion on the supply level of irrigation water availed from the system and encircle the appropriate response, code 1 for **adequate** or code 2 for **inadequate**.

Sub-block C2. FERTILIZER USAGE FOR THE FIRST QUARTER (JANUARY – MARCH 2017)

Item 1. Did you apply fertilizer on the harvested area? Ask if any portion of the area planted and was harvested during the quarter was applied with fertilizer. For a YES response, meaning applied, indicate Code 1 and ask the succeeding items. Otherwise, indicate Code 0 and proceed to Sub-block C3.

| C2. FERTILIZER USAGE FOR THE FIRST QUARTER (JANUARY - MARCH 2017) | | | | | | |
|--|---------------|----------------------------------|----------------|------------------|--|--|
| 1. Did you apply fertilizer? (Indicate code) 1 - Yes 0 - No (Go to block C3) | | | | 1 | | |
| 2. Area applied with fertilizer (ha) | | | | 1.0000 | | |
| 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 | UREA | NPK (46-0-0) | 5.0000 | | |
| | 3.2 | AMMONIUM SULPHATE | NPK (16-20-0) | 2.0000 | | |
| | 3.3 | AMMONIUM PHOSPHATE | NPK (21-0-0) | 1.0000 | | |
| | 3.4 | COMPLETE | NPK (14-14-14) | 3.0000 | | |
| 4. Other inorganic fertilizer applied | 4.1 Solid | a. Product name | | CROP GIANT | | |
| | | b. Fertilizer grade (NPK) | | 15-15-30 | | |
| | | c. Total number of units applied | | 1.0000 | | |
| | | d. Weight per unit (kg) | | 1.0000 | | |
| | 4.2 Liquid | a. Product name | | MRG LIQUID FERT. | | |
| | | b. Fertilizer grade (NPK) | | 1.43-0.33-3.79 | | |
| | | c. Total number of units applied | | 1.0000 | | |
| | | d. Volume per unit (liter) | | 0.2500 | | |
| 5. Organic fertilizer applied | 5.1 Solid | a. Product name | | | | |
| | | b. Fertilizer grade (NPK) | | | | |
| | | c. Total number of units applied | | | | |
| | | d. Weight per unit (kg) | | | | |
| | 5.2 Liquid | a. Product name | | | | |
| | | b. Fertilizer grade (NPK) | | | | |
| | | c. Total number of units applied | | | | |
| | | d. Volume per unit (liter) | | | | |

Item 2. Area applied with fertilizer. Ask the respondent of the area that was applied with fertilizer. Enter area in hectares and in four (4) decimal places.

Item 3. Quantity of inorganic fertilizer applied. This item will gather information on the four (4) most common grades of fertilizer applied in the area that was planted and harvested by the farmer namely: urea, ammonium sulfate, ammonium phosphate and complete.

Sub-Items 3.1 to 3.4 - Four rows are allotted for the most common grade of fertilizer applied. Inquire from the respondent the grade/s of fertilizer used and the NPK composition. Further, indicate the respective quantity applied, in bag of fifty (50) kilograms and in two (2) decimal places. In the case of a farmer who applies multiple grades of common inorganic fertilizer, such that the four allotted rows are not sufficient, the SR can utilize the other space/s in Item 4.

NPK refers to the elements found in the fertilizer in the form of Nitrogen, Phosphorus and Potassium. Example, urea 46-0-0, 46 stands for Nitrogen, 0 Phosphorous and 0 Potassium; complete 14-14-14, each 14 stands for the three elements. Other major inorganic fertilizers are ammosul 21-0-0 and ammophos 16-20-0.

Item 4. Other inorganic fertilizer applied. Ask for the product name and **NPK** contents of other inorganic fertilizer applied whether in solid or liquid form. Example:

Item 4.1.a. Product name: Crop Giant;

Item 4.1.b. Fertilizer grade (NPK): 15-15-30;

Item 4.1.c. Total no. of units applied 2. 5 0;

Item 4.1.d. Weight per unit (Kg): 50.00

Ask the same information for the liquid type of inorganic fertilizer, e.g.,

Item 4.1.a. Product name: MRG Liquid Fertilizer

Item 4.1.b. Fertilizer grade (NPK): 1.43-0.44-3.79;

Item 4.1.c. Total no. of units applied 1. 5 0;

Item 4.1.d. Volume per unit (liter): 1.000

Item 5. Organic fertilizer applied. Ask for the product name of organic fertilizer applied including solid or liquid type. Examples are Green Leaves organic fertilizer (1.31-3.75-0.94) and Biohero organic fertilizer (1.31-3.0-3.0). Others are animal manure, crop residues or stubbles. Ask for the total number of units applied, the unit of measure and the weight in kilograms or volume in liter per unit. Indicate responses in two (2) decimal places weight per unit and in three (3) decimal places volume.

Sub-Block C3. PESTICIDE USAGE FOR THE FIRST QUARTER (JANUARY – MARCH 2017)

Pesticide. This refers to chemicals used to control/eradicate insects, weeds and/or animal pests.

Item 1. Did you apply pesticide on the harvested area? Ask from the respondent if any portion of the area planted that was harvested during the quarter was applied with pesticide. For a YES response, meaning applied, indicate Code 1 and ask the succeeding items. Otherwise, indicate Code 0 and proceed to Sub-block C.4, page 3.

| C3. PESTICIDE USAGE FOR THE FIRST QUARTER (JANUARY - MARCH 2017) | | | | | | |
|---|--|---------------------------|--|--------|--|--|
| 1. Did you apply pesticide? (Indicate code) 1 - Yes 0 - No (Go to block C4) | | | | 1 | | |
| 2. Area applied with pesticide (ha) | | | | 1.0000 | | |
| 3. Pesticide applied | 3.1a. Name of pesticide | | | Karate | | |
| | 3.1b. Classification ^{cl} (Indicate code) | | | 1 | | |
| | 3.1c. Total number of units applied | | | 1.0000 | | |
| | 3.1d. Unit of measure | | | Bottle | | |
| | Weight or volume per unit | 3.1e. In kilogram (Solid) | | | | |
| | | 3.1f. In liter (Liquid) | | 0.2500 | | |
| Pesticide applied | 3.2a. Name of pesticide | | | | | |
| | 3.2b. Classification ^{cl} (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) | | | | |
| 4. Botanical extracts/spray applied (organic) | 4.1a. Name of botanical extracts/spray | | | | | |
| | 4.1b. Classification ^{cl} (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) | | | | |

^{cl} Pesticide Classification: 1 - Insecticide 2 - Herbicide 3 - Fungicide 4 - Rodenticide 5 - Molluscicide 6 - Nematocide 7 - Others (Specify)

Item 2. Area applied with pesticide. Ask the total area that was applied with pesticide. Enter area in hectares and in four (4) decimal places.

Item 3. Pesticide applied. This item will gather information on the different classifications and types of pesticide applied by the farmer on the harvested area. The questionnaire allotted 3 sub-items in case a farmer applied more than one (1) classification of pesticide.

Sub-Item 3.1.a. Name of pesticide. Ask the name of pesticide applied in the harvested area. Example: **Access Malathion**

Sub-Item 3.1.b. Classification. Ask the classification of pesticide applied in the harvested area and indicate code in the space provided. Classifications are provided at the bottom of the questionnaire. They are as follows:

Code 1 - Insecticide – refer to chemicals used to control insects;

Code 2 - Herbicide – refer to chemicals used to control weeds;

Code 3 - Fungicide – refer to chemicals used to control fungi;

Code 4 - Rodenticide – refer to chemicals used to control rodents;

Code 5 - Molluscicide – refer to chemicals used to control snails;

Code 6 - Nematocide – refer to chemicals used to control worms; and

Code 7 - Others, specify. Include those not previously classified.

Referring to sub-item 3.1.a. example earlier, under which is Access Malathion, code 1 will be indicated because it is a specific classification of insecticide.

Sub-Item 3.1.c. Total number of units applied. Ask the respondent the number of units of specific classification of pesticide applied and indicate on the space provided.

Sub-Item 3.1.d. Unit of measure. Ask for the unit of measure used in quantifying each classification of pesticide applied. Unit of measure may be bottle, pack, can, box, sachet, etc.

Sub-Items. 3.1.e. - 3.1.f. Weight or Volume per unit. These items refer to the weight in kilograms and the volume in liter of the unit of measure of pesticides used. Weight in kilograms is for solid type pesticide which could be in granule/wettable powder form. Volume in liter is for liquid type of inputs. Indicate answer in the appropriate row.

Sub-Items 3.2.a to 3.2.f and 3.3.a to 3.3.f – Pesticide applied. Filling up of these sub-items for the other classifications and types of pesticide applied is similar to that of sub-items 3.1.a to 3.1.f.

Item 4. Botanical extracts/spray applied. This refers to **organic pesticide** applied in the harvested area. As the term implies, they are extracted from selected plants which underwent some processing. Some of these plants are amarillo, jetropa, kakawate and neem tree.

Sub-Items 4.1.a – 4.1.f. Filling up of information in these sub-items are similar to that of sub-items 3.1 to 3.3.

Sub-Block C4. LABOR INPUTS

Item 1. Ask the respondent whether he/she hired workers or not, to perform palay operations whether paid in cash or in kind of the crop harvested during the reference quarter. This refers to one complete cropping cycle or from planting to harvesting period where some of the farm activities other than harvesting may fall prior to the reference quarter. Indicate Code 1 for Yes. Otherwise, Code 0 for No.

| C4. LABOR INPUTS | | | |
|---|---|--|--|
| 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 | 1 | | |

Block D. PALAY PRODUCTION DISPOSITION

This block deals with the breakdown of the sample household's disposition/utilization of its **total production of palay for all ecosystems** during January-March 2017. The unit of measure to be used in this block must be the same as the one used in Sub-block C1, item 7.

| D. PALAY PRODUCTION DISPOSITION | | | |
|--|-------------|----------|----------|
| 1. Of your farm's total production (in local unit) for the period (JANUARY - MARCH 2017) how many were/will be . . . | | | |
| 1.01 sold? | 140. | 0 | 0 |
| 1.02 used for household consumption? | 17. | 0 | 0 |
| 1.03 share of landowner? | | | |
| 1.04 paid to farm laborers? | 8. | 0 | 0 |
| 1.05 used for seeds? | | | |
| 1.06 used as payment for loans? | | | |
| 1.07 used as payment for irrigation fee? | 10. | 0 | 0 |
| 1.08 used for feeds? | | | |
| 1.09 post harvest wastage/losses? | 1. | 0 | 0 |
| 1.10 given away | | | |
| 1.11 used as payment for rentals | 4. | 0 | 0 |
| TOTAL | 180. | 0 | 0 |

Item 1. Ask the respondent how the total production for the period JANUARY – MARCH 2017, was utilized or disposed. Enter quantity of disposition in local unit and in two (2) decimal places. The disposition items are:

Item 1.01 – sold;

Item 1.02 – used for household consumption;

Item 1.03 – share of landowner;

Item 1.04 – paid to farm laborers;

Item 1.05 – used for seeds;

Item 1.06 – used as payment of loans;

Item 1.07 – used as payment for irrigation services;

Item 1.08 – used for feeds;

Item 1.09 – post harvest wastage/losses; and

Item 1.10 – given away.

Item 1.11 – used as payment for rentals.

If disposition breakdown is given in percentage, compute for the equivalent quantity in local unit before entering the figures on the spaces provided using the formula:

$$\text{Disposition (in loc. unit)} = (\% \text{ of Disposition}) (\text{Total Production for the Period})$$

As marginal note, the percentage breakdown given by the respondent may also be reflected on the questionnaire.

Payment of loans refers to the part of production during the reference quarter that was paid by the farmer to his/her creditor.

Payment for Irrigation Services refers to the part of production during the reference quarter that was paid for the Irrigation services.

Wastage/losses refer to the quantity wasted or lost that was incurred after the threshed palay was put into sacks or any form of container. This may occur during drying, hauling and stocking.

Block E. PALAY PRODUCTION FORECAST (on standing crop)

This block intends to generate information on the standing crop as of March 31, 2017 and is EXPECTED to be harvested within the next five (5) months.

| E. PALAY PRODUCTION FORECAST (on standing crop) | | | |
|---|------------------------------------|--|--|
| 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 ^{di} (Indicate code) | | 2 | |
| 4. Month when crop will be harvested (Encircle code) | | 04 - April 05 - May 06 - Jun 07 - Jul 08 - Aug | 04 - April 05 - May 06 - Jun 07 - Jul 08 - Aug |
| 5. Area to be harvested (ha) | | 1. 0 0 0 0 | |
| Quantity of dry palay to be produced (14% moisture content) | 6. Total number of units | 85. 0 0 | |
| | 7. Unit of measure | cavan | |
| | 8. Weight per unit of measure (kg) | 50. 0 0 | |
| 9. Month when crop was planted (Encircle code) | | 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) | | 1. 0 0 0 0 | |
| ^{di} Type of seed planted 1-Hybrid 2-Inbred - Certified 3-Farmers' Good seeds 4-Traditional/Native | | | |

Item 1. Do you have any standing palay on your farm as of March 31, 2017? -

Determine whether the sample household has standing palay on any of its parcel as of the last day of the reference quarter which is expected to be harvested within the next five (5) months. For a YES response encircle Code 1 and inquire for the succeeding items. Otherwise, encircle Code 0 and proceed to Block F, page 4.

Item 2. Type of Ecosystem. Ask the respondent the type of ecosystem of the standing crop. The sample household may have standing palay in more than one ecosystem. Encircle corresponding code if irrigated, rainfed or upland and accomplish the succeeding items column by column.

Item 3. Type of seed planted. Indicate the code of the major type/class of palay seed. Refer to the four pre-coded major types/classes of palay seeds at the bottom of the questionnaire.

Item 4. Month when crop will be harvested. Ask the month when the standing crop will be harvested and encircle code on the space provided.

Item 5. Area to be harvested. Ask the respondent about the expected area to be harvested. This may be less than or equal to the area planted. Indicate the response in hectares and in four (4) decimal places on the space provided.

Items 6-8. Quantity of dry palay to be produced. These items intend to determine the quantity of palay in dry equivalent (14% moisture content) to be produced. Specifically, determine from the respondent the following:

Item 6. Total number of units. Ask for the total quantity of palay that is expected to be produced. Indicate answer on the space provided in two (2) decimal places.

Item 7. Unit of measure. Ask for the unit of measure used in quantifying the crop to be harvested. Examples are sack, can, etc.

Item 8. Weight per unit of measure. Ask for the equivalent weight in kilograms of the unit of measure used in quantifying the expected production.

Item 9. Month when crop was planted. Ask for the specific month when the crop that is expected to be harvested was planted and encircle code.

Item 10. Area planted to crop that will be harvested. Ask for the area planted to the crop that will be harvested. This should be in hectares and in four (4) decimal places.

Block F. PALAY PLANTING INTENTIONS

This block seeks to establish the two-quarter-ahead forecast of palay to be produced based on planting intention of the sample farmer. These are to include all palay crops in all ecosystems that are intended to be planted anytime during the succeeding quarter.

| F. PALAY PLANTING INTENTIONS | | | |
|---|--|--|--|
| 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) | 1. 0 0 0 0 | _____ | _____ |
| 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 |

Item 1. Do you intend to plant palay on your farm anytime from April – June 2017? - Ask whether the sample household has any intention to plant palay on any of its parcels anytime within the current quarter. Encircle Code 1 for a YES response and inquire for the succeeding items. Otherwise, encircle Code 0 and Go to Block G.

Item 2. Type of ecosystem. Inquire from the respondent the type of ecosystem of the farm where the household intends to plant during the reference period. Encircle the corresponding code/s for the type/s of ecosystem.

Item 3. Month when crop will be planted. Ask the respondent on the month when the crop will be planted. Encircle month's code on the answer grid.

Item 4. Area to be planted. Ask the respondent about the area to be planted per ecosystem. Indicate area in hectares and in four (4) decimal places.

Item 5. Month when crop will be harvested. Ask the respondent about the expected month of harvested of the crop to be planted. Encircle month's code on the space provided.

Block G. RESPONDENT'S ASSESSMENT OF THE HOUSEHOLD'S PALAY PRODUCTION (For sample households that harvested palay during January-March 2017)

This block intends to establish comparison between the current quarter's production against that of the same quarter of last year based on the respondent's viewpoint.

| G. RESPONDENT'S ASSESSMENT OF THE HOUSEHOLD PALAY PRODUCTION | |
|---|---|
| (For sample households that harvested palay during JANUARY - MARCH 2017) | |
| 1. Was your fam's production in JANUARY - MARCH 2017 larger than, smaller than, or about the same as your fam'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 | Use of high yielding seeds variety |
| 5 - Fertilizer | |
| 6 - Irrigation services | Adequate water supply |
| 7 - Others (Specify) | |

Item 1. Was your farm's production in January to March 2017... - Ask the respondent if his/her palay production during January to March 2017 was larger than, smaller than or about the same of his/her production in the same quarter of the previous year. Encircle appropriate code. If the response was larger or smaller than, ask for Item 2. If response is code 3 (About the same) or code 4 (no harvest last year), go to Block H.

Item 2. What was/were the reasons for the change in production – Ask the respondent of the major reason/s for the change in production. Encircle appropriate code/s and explain it further. The possible reasons are the following:

- Code 1** – Change in area _____
- Code 2** – Weather effects _____
- Code 3** – Pests and diseases _____
- Code 4** – Seeds _____
- Code 5** – Fertilizer _____
- Code 6** – Irrigation services _____
- Code 7** – Others (specify) _____

Block H. FARMERS' PARTICIPATION IN RICE PROGRAM

This block aims to gather information on the farmers' awareness and participation in any government program on rice. It also seeks to find out the extent of their availment of the various services under the program.

| H. FARMER'S PARTICIPATION IN RICE PROGRAM | | | | | | | | | | | | | | | | | | |
|---|-------------------------------------|--|--------------------------|---|--------------------------|-----------------------------|-------------------------------------|---|--------------------------|---|--------------------------|---|--------------------------|---|--------------------------|---|--------------------------|------|
| 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 | | Distribution of hybrid seeds from DA/LGU | | | | 5 - Post harvest facilities | | | | | | | | | | | | |
| 2 - Fertilizer and other inputs | | | | | | 6 - Marketing assistance | | | | | | | | | | | | |
| 3 - Training on farming technology | | | | | | 7 - Loans | | | | | | | | | | | | |
| 4 - Irrigation facilities | | Adequate water distribution of NIA | | | | 8 - Others (Specify) | | | | | | | | | | | | |
| 4. Which of the availed benefits was/were used in your palay production during the JANUARY - MARCH 2017 harvest? (Check box/es) | | | | | | | | | | | | | | | | | | |
| 1 | <input checked="" type="checkbox"/> | 2 | <input type="checkbox"/> | 3 | <input type="checkbox"/> | 4 | <input checked="" type="checkbox"/> | 5 | <input type="checkbox"/> | 6 | <input type="checkbox"/> | 7 | <input type="checkbox"/> | 8 | <input type="checkbox"/> | 9 | <input type="checkbox"/> | None |

Item 1. Are you aware of any program on rice? – Ask the respondent if he/she is aware of any government program on rice. Encircle Code 1 for YES. If NO, encircle Code 0 and proceed with the interview (Item 2).

Item 2. Have you availed of any benefit from government program on rice? – If the respondent has availed of any benefit from government program on rice, encircle Code 1. Otherwise, encircle Code 0 and end the interview.

Item 3. Which of the following program benefits and services have you availed?

- Code 1** – Seeds;
- Code 2** – Fertilizer and other inputs;
- Code 3** – Training on farming technology;
- Code 4** – Irrigation facilities;
- Code 5** – Post harvest facilities;
- Code 6** – Marketing assistance;
- Code 7** – Loans;
- Code 8** – Others (Specify).

Determine from the respondent which of the above-listed program components/benefits/services he/she availed. Encircle code/s and provide details for each particular program benefit and service. Include in “others” those not previously classified like tractors, IPM (Integrated Pest Management), FMR (Farm to Market Road) etc.

Item 4. Which of the availed benefits was/were used in your palay production during the January to March 2017 harvest?

- Of the program components/benefits/services availed in item 3, ask the respondent and check the corresponding box/es which was/were used in his/her palay production and marketing operation during the reference cropping (January to March 2017 harvest).

NOTE: Accomplish item 2.1 to 2.4 in **Block B - SAMPLE PARTICULARS** for the result of visit before going to **Block I - STATISTICAL RESEARCHER, SUPERVISOR, PSO AND ENCODER IDENTIFICATION**.

| | |
|---|---|
| NOTE: This portion is to be accomplished after the interview | |
| 2.1 Result of visit <i>(Encircle code)</i> | 2.3 Full name of informant Lee Mar G. Abegornia |
| 40 - Interview completed | 2.4 Designation of informant <i>(Encircle code and end interview)</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 Domingo |
| 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 |

Block I. STATISTICAL RESEARCHER, SUPERVISOR, PSO AND ENCODER IDENTIFICATION

Accomplish this block after completing the interview. The SR must signify accomplishment of his/her task by affixing his/her name, signature, and the date.

The field supervisor, PSO, and encoder must also affix their names, signatures, and dates of accomplishing their respective tasks.

| I. STATISTICAL RESEARCHER, SUPERVISOR, PSO AND ENCODER IDENTIFICATION | | | |
|--|-------|-------------------|-------------|
| 1. NAME AND SIGNATURE OF STATISTICAL RESEARCHERS: | _____ | 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: _____ |

5. Manual Editing

The SRs must edit the accomplished questionnaires before submitting it to field supervisors to ensure the quality of data collected. This involves the checking of the data items based on pre-set criteria, completeness, consistency with other data items and acceptability of data in the questionnaire which is done during and after interview. Below are the editing guidelines:

Block A. Sample Identification

- Check the consistency of the entries in Items 1 to 8, namely: name and code for the region, province, municipality and barangay; the stratum and replicate number; household weight; and household code from the list of samples (MASTERLIST).

Block B. Sample Particulars

- Check if all samples indicated in the masterlist are covered.
- From the accomplished questionnaire, check the names of the respondents from the masterlist items 1 to 8.
- Be very careful in determining the status of the sample household in Item 2 (refer to the table on guidelines with different cases in determining **SAMPLE STATUS**).
- The data to be gathered refer to the **entire household** and not only to the person identified in the list of samples.
- Total agricultural area in Item 5 should be **greater than or equal to** the total palay area in Item 6.
- Total Palay Area includes palay areas acquired by the sample household as of the date of interview, and those palay areas being operated by the sample household which are temporarily in fallow during the reference period. This *excludes* areas which were previously part of the farm but are no longer part of it by reason of sale (including farming rights), giving up of lease or tenancy rights, abandonment of squatted areas, etc.

Block C. Information on Palay Harvested**Sub-Block C1. Area, Production, Seed and Irrigation Information**

- If the answer in item 1 is CODE 1 or YES, there should have entries in the succeeding applicable Items from 2-18.
- Area harvested in item 4 should **be less than or equal to** the area planted in Item 10.
- Volume of palay in items 6 to 8 should be at 14% moisture content.
- Data entries from items 2 to 18 should be consistent in each ecosystem (e.g. irrigated, rainfed, upland).

Sub-Block C2. Fertilizer Usage

- If the answer in item 1 is CODE 1 or YES, there should have entries in the succeeding applicable items from 2 to 5.
- Area applied with fertilizer in Item 2 should be **less than or equal to** the area planted in Block C1 Item 10.

Sub-Block C3. Pesticide Usage

- If the answer in item 1 is CODE 1 or YES, there should have entries in the succeeding applicable items from 2-4.
- Area applied with pesticide in Item 2 should be **less than or equal to** the area planted in Block C1 Item 10.

Block D. Palay Production Disposition

- Total production disposition should be equal the respective units of palay produce in Block C1 Items 6-8.

Block E. Palay Production Forecast

- If the answer in item 1 is CODE 1 or YES, there should have entries in the succeeding applicable items from 2 to 10.

- Area to be harvested in item 5 should be less than or equal to the area planted in Item 10.

Block F. Palay Planting Intentions

- If the answer in Item 1 is CODE 1 or YES, there should have entries in the succeeding applicable items from 2 to 5.

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

- If the answer in Item 1 is CODE 1 or 2, there should have entries in Item 2, otherwise go to Block H.

Block H. Farmer's Participation in Rice Program

- Encircle the code of answer in item 1 and proceed to item 2.
- If the answer in item 2 is CODE 1 or YES there should have entries if applicable in items 3 and 4.

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

- Items 1 to 4 should have entries for proper identification.

APPENDICES

APPENDIX A**CONCEPTS AND DEFINITION OF TERMS**

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.

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.

APPENDIX B

PCPS Form 1 (PPS Questionnaire)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|-----|----------------------------------|---|---|--|---------------------------------------|--------------------------------|---|------------------------|-----|-----|------------------------|-------|-------|---------------------------|------------------------------------|-------------------------------|-------------------------------|-------------------------------|---|--|-------|-------|--------------------|-------|-------|------------------------------------|-------|-------|----------------------------------|--|--|--|-----------------------|-------|-------|-------|--|-------|--|--|--|---|---|---|
| <p>PCPS FORM 1 (Palay)</p> <p>AUTHORITY: This survey is authorized under Republic Act (RA) 10625.</p> <p>CONFIDENTIALITY: All data obtained herein shall be held STRICTLY CONFIDENTIAL, cannot be used for taxation, investigation, or law enforcement purposes.</p> |  <p>Republic of the Philippines PHILIPPINE STATISTICS AUTHORITY Quezon City</p> | <p style="text-align: center;">PALAY AND CORN PRODUCTION SURVEY PALAY PRODUCTION SURVEY APRIL 2017 ROUND</p> <p>PSA Approval No: PSA-1717 Expires on: 31 May 2018</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>A. SAMPLE IDENTIFICATION</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 45%;">1. Region _____</td> <td style="width: 5%; text-align: center;">[]</td> <td style="width: 5%; text-align: center;">[]</td> <td style="width: 45%;">5. Stratum</td> <td style="width: 5%; text-align: center;">[]</td> <td style="width: 5%; text-align: center;">[]</td> </tr> <tr> <td>2. Province _____</td> <td style="text-align: center;">[]</td> <td style="text-align: center;">[]</td> <td>6. Replicate</td> <td style="text-align: center;">[]</td> <td style="text-align: center;">[]</td> </tr> <tr> <td>3. Municipality _____</td> <td style="text-align: center;">[]</td> <td style="text-align: center;">[]</td> <td>7. Household weight _____</td> <td></td> <td></td> </tr> <tr> <td>4. Barangay _____</td> <td style="text-align: center;">[]</td> <td style="text-align: center;">[]</td> <td>8. Household code (EA - HSN) [] [] - [] [] []</td> <td></td> <td></td> </tr> </table> | | | 1. Region _____ | [] | [] | 5. Stratum | [] | [] | 2. Province _____ | [] | [] | 6. Replicate | [] | [] | 3. Municipality _____ | [] | [] | 7. Household weight _____ | | | 4. Barangay _____ | [] | [] | 8. Household code (EA - HSN) [] [] - [] [] [] | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Region _____ | [] | [] | 5. Stratum | [] | [] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Province _____ | [] | [] | 6. Replicate | [] | [] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. Municipality _____ | [] | [] | 7. Household weight _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. Barangay _____ | [] | [] | 8. Household code (EA - HSN) [] [] - [] [] [] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>B. SAMPLE PARTICULARS</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 45%;">1. Name of agricultural operator _____ (Complete name) (Last name) (First name) (M.I.)</td> <td style="width: 55%;"></td> </tr> <tr> <td>2. Sample status (Encircle code)</td> <td> 10 - Palay household 20 - Non-palay household (Ask items 3 to 5 then end interview) 30 - Non-agricultural household (Ask item 3 then end interview) </td> </tr> </table> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <p>NOTE: This portion is to be accomplished after the interview</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> 2.1 Result of visit (Encircle code) 40 - Interview completed 50 - Interview not completed 60 - Refused to be interviewed 70 - Target respondent not contacted (Ask items 2.2 to 2.4) 2.2 Reason for code 70 (Encircle code) 71 - Temporarily away/Not at home 72 - Area temporarily not accessible 73 - Resides outside the sample barangay 74 - Unknown in the locality </td> <td style="width: 50%; vertical-align: top;"> 2.3 Full name of informant _____ 2.4 Designation of informant (Encircle code) 1 - Barangay/Purok official 2 - Neighbor 3 - Other household member 3. First name of respondent _____ 4. Respondent's classification (Encircle code) 1 - Household head and operator 2 - Operator other than household head 3 - Other knowledgeable member of the household </td> </tr> </table> </div> <table style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 50%;">5. Total agricultural area (ha) _____</td> <td style="width: 50%;">6. Total palay area (ha) _____</td> </tr> </table> | | | 1. Name of agricultural operator _____ (Complete name) (Last name) (First name) (M.I.) | | 2. Sample status (Encircle code) | 10 - Palay household 20 - Non-palay household (Ask items 3 to 5 then end interview) 30 - Non-agricultural household (Ask item 3 then end interview) | 2.1 Result of visit (Encircle code) 40 - Interview completed 50 - Interview not completed 60 - Refused to be interviewed 70 - Target respondent not contacted (Ask items 2.2 to 2.4) 2.2 Reason for code 70 (Encircle code) 71 - Temporarily away/Not at home 72 - Area temporarily not accessible 73 - Resides outside the sample barangay 74 - Unknown in the locality | 2.3 Full name of informant _____ 2.4 Designation of informant (Encircle code) 1 - Barangay/Purok official 2 - Neighbor 3 - Other household member 3. First name of respondent _____ 4. Respondent's classification (Encircle code) 1 - Household head and operator 2 - Operator other than household head 3 - Other knowledgeable member of the household | 5. Total agricultural area (ha) _____ | 6. Total palay area (ha) _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. Name of agricultural operator _____ (Complete name) (Last name) (First name) (M.I.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Sample status (Encircle code) | 10 - Palay household 20 - Non-palay household (Ask items 3 to 5 then end interview) 30 - Non-agricultural household (Ask item 3 then end interview) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 5. Total agricultural area (ha) _____ | 6. Total palay area (ha) _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>C. INFORMATION ON PALAY HARVESTED</p> <p>C1. AREA, PRODUCTION, SEED AND IRRIGATION INFORMATION FOR THE FIRST QUARTER (JANUARY - MARCH 2017)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4">1. Did you harvest palay during the period January - March 2017? (Encircle code) 1 - Yes 0 - No, (Go to block E, page 3)</td> </tr> <tr> <td style="width: 45%;">2. Type of ecosystem (Encircle code/s)</td> <td style="width: 15%;">1 - Irrigated</td> <td style="width: 15%;">2 - Rainfed</td> <td style="width: 25%;">3 - Upland</td> </tr> <tr> <td>3. Type of seed planted^{a/} (Indicate code)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4. Area harvested (ha)</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>5. Month harvested (Encircle code)</td> <td>01 - Jan 02 - Feb 03 - Mar</td> <td>01 - Jan 02 - Feb 03 - Mar</td> <td>01 - Jan 02 - Feb 03 - Mar</td> </tr> <tr> <td rowspan="3">Quantity of dry palay produced (14% moisture content)</td> <td>6. Total number of units</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>7. Unit of measure</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>8. Weight per unit of measure (kg)</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>9. Month planted (Encircle code)</td> <td>08 - Aug 09 - Sep 10 - Oct 11 - Nov 12 - Dec</td> <td>08 - Aug 09 - Sep 10 - Oct 11 - Nov 12 - Dec</td> <td>08 - Aug 09 - Sep 10 - Oct 11 - Nov 12 - Dec</td> </tr> <tr> <td>10. Area planted (ha)</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>11. Name of the variety planted (Specify local or commercial name)</td> <td colspan="3">_____</td> </tr> <tr> <td>12. Method of crop establishment (Encircle code)</td> <td>1 - Transplanting 2 - Direct seeding</td> <td>1 - Transplanting 2 - Direct seeding</td> <td>1 - Transplanting 2 - Direct seeding</td> </tr> </table> <p><small>a/ Type of seed planted: 1 - Hybrid 2 - Inbred - Certified 3 - Farmers/Good seeds 4 - Traditional/Native</small></p> | | | 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 ^{a/} (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 |
| 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 ^{a/} (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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 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 ^{bl} (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 | _____ | _____ |
| C2. FERTILIZER USAGE FOR THE FIRST QUARTER (JANUARY - MARCH 2017) | | | _____ | _____ | _____ |
| 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 (____ _) | _____ . _____ | _____ . _____ | _____ . _____ |
| | 4.1 | a. Product name | _____ | _____ | _____ |
| 4. Other inorganic fertilizer applied | Solid | b. Fertilizer grade (NPK) | _____ | _____ | _____ |
| | | c. Total number of units applied | _____ . _____ | _____ . _____ | _____ . _____ |
| | | d. Weight per unit (kg) | _____ . _____ | _____ . _____ | _____ . _____ |
| | | 4.2 | a. Product name | _____ | _____ |
| | Liquid | b. Fertilizer grade (NPK) | _____ | _____ | _____ |
| | | c. Total number of units applied | _____ . _____ | _____ . _____ | _____ . _____ |
| | | d. Volume per unit (liter) | _____ . _____ | _____ . _____ | _____ . _____ |
| | | 5. Organic fertilizer applied | Solid | a. Product name | _____ |
| b. Fertilizer grade (NPK) | _____ | | | _____ | _____ |
| c. Total number of units applied | _____ . _____ | | | _____ . _____ | _____ . _____ |
| d. Weight per unit (kg) | _____ . _____ | | | _____ . _____ | _____ . _____ |
| Liquid | a. Product name | | _____ | _____ | _____ |
| | b. Fertilizer grade (NPK) | | _____ | _____ | _____ |
| | c. Total number of units applied | | _____ . _____ | _____ . _____ | _____ . _____ |
| | d. Volume per unit (liter) | | _____ . _____ | _____ . _____ | _____ . _____ |
| C3. PESTICIDE USAGE FOR THE FIRST QUARTER (JANUARY - MARCH 2017) | | | _____ | _____ | _____ |
| 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 ^{cl} (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) | _____ . _____ | _____ . _____ | _____ . _____ |
| ^{bl} 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) | | | | | |
| ^{cl} 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 ^{cl} (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 ^{cl} (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 ^{cl} (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) | | |
| C4. LABOR INPUTS | | | | |
| 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 | | | | |
| D. PALAY PRODUCTION DISPOSITION | | | | |
| 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 | | | | |
| TOTAL | | | | |
| E. PALAY PRODUCTION FORECAST (on standing crop) | | | | |
| 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 ^{al} (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) | | | | |
| ^{a/} Type of seed planted : 1 - Hybrid 2 - Inbred - Certified 3 - Farmers/Good seeds 4 - Traditional/Native ^{cl} Pesticide Classification: 1 - Insecticide 2 - Herbicide 3 - Fungicide 4 - Rodenticide 5 - Molluscicide 6 - Nematocide 7 - Others (Specify) | | | | |

| E. PALAY PRODUCTION FORECAST <i>(Continued)</i> | | 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 <i>(Encircle code)</i> | | 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) | | _____ | _____ | _____ |
| F. PALAY PLANTING INTENTIONS | | | | |
| 1. Do you intend to plant palay on your farm anytime from April - June 2017? <i>(Encircle code)</i> 1-Yes 0-No, (Go to block G) | | | | |
| 2. Type of ecosystem <i>(Encircle code)</i> | | 1 - Irrigated | 2 - Rainfed | 3 - Upland |
| 3. Month when crop will be planted <i>(Encircle code)</i> | | 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 <i>(Encircle code)</i> | | 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 |
| G. RESPONDENT'S ASSESSMENT OF THE HOUSEHOLD PALAY PRODUCTION | | | | |
| (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? <i>(Encircle code)</i> 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? <i>(Encircle code/s and explain further the reason/s)</i> | | | | |
| 1 - Change in area _____ | | | | |
| 2 - Weather effects _____ | | | | |
| 3 - Pests and diseases _____ | | | | |
| 4 - Seeds _____ | | | | |
| 5 - Fertilizer _____ | | | | |
| 6 - Irrigation services _____ | | | | |
| 7 - Others (Specify) _____ | | | | |
| H. FARMER'S PARTICIPATION IN RICE PROGRAM | | | | |
| 1. Are you aware of any government program on rice? <i>(Encircle code)</i> 1 - Yes 0 - No | | | | |
| 2. Have you availed of any benefit from government program on rice? <i>(Encircle code)</i> 1 - Yes 0 - No, end interview | | | | |
| 3. Which of the following program benefits and services have you availed? <i>(Encircle code/s and provide details)</i> | | | | |
| 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 was/were used in your palay production during the January - March 2017 harvest? <i>(Check box/es)</i> | | | | |
| <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 | | | | |
| I. STATISTICAL RESEARCHER, SUPERVISOR, PSO AND ENCODER IDENTIFICATION | | | | |
| 1. NAME AND SIGNATURE OF STATISTICAL RESEARCHERS : _____ 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 : _____ | | | | |



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