# Monthly Palay and Corn Situation Reporting System

## **Manual of Operations**



PHILIPPINE STATISTICS AUTHORITY

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### 1. INTRODUCTION

### 1.1. Overview

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

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

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

### 1.2. Objective

The MPCSRS primarily aims to:

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

### 1.3. Coverage

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

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

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

All sample households in the sample barangays are enumerated.

### 2. SAMPLING METHODOLOGY

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

### 3. SURVEY OPERATION PROCEDURES 3.1. Data Collection

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

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

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

### 3.2. Field Processing of Survey Returns

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

### **3.3. Submission of Provincial Reports**

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

### 3.4. Central Office Review and Report Writing

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

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

### 4. INSTRUCTIONS IN FILLING OUT THE QUESTIONNAIRE

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

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

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

### 4.1. BLOCK A – SAMPLE IDENTIFICATION

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

#### For Palay

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

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

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

#### For Corn

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

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

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

#### **For Palay**

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

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

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

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

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

### For Corn

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### 4.3. BLOCK C – STATISTICAL RESEARCHER AND PSO IDENTIFICATION

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

# APPENDIX

CSD Form 2a (Palay) Sheet of \$	2a (Palay) _ of sheets			SOLISITATE NAME								Appr Expir	Approval No.: PSA-1619 Expires on: 31 March 2017	A
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### **Appendix A** – CSD Form 2a (MPCSRS Questionnaire for Palay)

Page 1 of 2 pages

PHILIPPINE STATISTICS AUTHORITY

CSD Form 2a (Palay) Page 2 of 2 pages

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### Appendix B – CSD Form 2b (MPCSRS Questionnaire for Corn)

CSD Form 2b (Corn)

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Φ	Household Code		Vegetative	Reproductive	Maturing	Total	Expected Month of Harvest	Reasons for Material Change in Area
No.	(EA -HSN)	(Indicate code)				(Col.17+Col.18+Col.19)		
(1)	(2)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
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				- -	   	-		
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		•						
			-					
C. ST	ATISTICAL RESEARC	C. STATISTICAL RESEARCHER AND PSO IDENTIFICATION	ICATION					
Name	Name and Signature of Statistical Researcher.	tical Researcher:		Date :	Name	Name and Signature of PSO:		Date :

									(Reporting Month)	g Month)							
Region: Browingo -															Reference Quarter:	Quarter:	
Province:															PCPS Round :		(Quarter's Standing Crop/Planting Intentions)
A. COMPARISON OF QUARTER'S PRESENT CROP SITUATION AND LAST QUARTER'S CROP FORECAST	RTER'S PRESE	NT CROP SI	TUATION AN	ID LAST QUA	ARTER'S CRC	<b>DP FORECAS</b>											(JAN/APR/JUL/OCT)
	Last Quarter's			RDR				UPDATED	UPDATED QUARTER'S FORECAST P D R	FORECAST			0	Survey Result	+		Reason/s for Changes in
ltem	Forecast	Total	Harvested		Reproductive Stage	Maturing Stage	Total	Harvested		Reproductive Stage	Maturing Stage	Total	Harvested	Vegetative Stage	Vegetative Reproductive Stage Stage	Maturing Stage	Quarter"s Forecast (Col. 8 vs Col. 2)
(1)	(2)	(3)	(4)	(5)		(2)	(8)	(6)	(10)	(11)		(13)	(14)	(15)	(16)		(18)
PALAY																	
Production (MT)																	
Hybrid																	
Inbred-Certified																	
Farmers'/Good Seeds																	
Traditional/Native																	
Hybrid Hybrid																	
Inbred-Certified																	
Farmers //Good Seeds																	
Traditional/Native																	
Rainfed																	
Hybrid																	
Inbred-Certified		Ī															
Farmers//Good Seeds																	
Traditional/Native																	
Upland Internet Contified																	
Farmers //Good Seeds																	
Traditional/Native																	
Area Harvested (Ha)															T		
nyuru Inbrod Cortifiod																	
Farmers //Good Seeds																	
Traditional/Native																	
Irrigated			_														
Hybrid																	
Inbred-Certified																	
Farmers'/Good Seeds																	
Iraditional/Native																	
Hvhrid																	
Inbred-Certified																	
Farmers //Good Seeds																	
Traditional/Native																	
Upland																	
Inbred-Certified																	
Farmers//Good Seeds													_				
							Ī										

### Appendix C – CSD Form 2c (MPCSRS Regional/Provincial Report for Palay)

CSD Form 2c (Palay) (Regional/Provincial Report) Page 1 of 2 pages

								UPDATED (	UPDATED QUARTER'S FORECAST	<sup>-</sup> ORECAST							
tom	Last Quarter's			RDR					PDR				SI	Survey Result			Reason/s for Changes in
	Forecast	Total	Harvested	Vegetative Stage	Vegetative Reproductive Stage Stage	Maturing Stage	Total	Harvested	Vegetative Stage	Reproductive Stage	Maturing Stage	Total	Harvested	Vegetative Reproductive Stage Stage		Maturing Stage	(Col. 8 vs Col. 2)
(1)	(2)	(3)	(4)	(5)	(9)	(1)	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
		_															
Yield per Ha. (MT)		_															
/brid																	
Inbred-Certified																	
Itmers'/Good Seeds																	
aditional/Native																	
ated																	
/brid																	
Inbred-Certified																	
Imers'/Good Seeds																	
aditional/Native																	
nfed																	
/brid																	
pred-Certified																	
Itmers'/Good Seeds																	
aditional/Native																	
Upland																	
Inbred-Certified																	
Farmers'/Good Seeds																	
Traditional/Native		_															

								ACTU	ACTUAL PLANTINGS (Ha)	5 (Ha)							
	Last Quarter's			RDR					PDR				S	Survey Result			Reason/s for Changes in
ltem	Planting		Sta	Stages of Crop Grow th	v th	Expected		St	Stage of Crop Grow th	ţ	Expected		St <sub>6</sub>	Stage of Crop Growth	th	Expected	Quarter"s Forecast
	Intentions	TOTAL	Vegetative	Vegetative Reproductive	Maturing	Month of Harvest	TOTAL	Vegetative	Reproductive	Maturing	Month of Harvest	TOTAL	Vegetative	Vegetative Reproductive Maturing	Maturing	Month of Harvest	(Col. 8 vs Col. 2)
(1)	(2)	(3)	(4)	(2)	(9)	(2)	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(11)	(18)
PALAY																	
Irrigated																	
Rainfed																	
Upland																	

Vegetative - planting/transplanting and filtering stege Reproductive - booling to booming/tas seling stage Maturing - Milk, dough and irpening stage

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Page 2 of 2 pages

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																	CSD Form 2d (Corn) (Regional/Provincial Report) Page 1 of 2 pages
							M	NTHLY PALA	MONTHLY PALAY AND CORN SITUATION REPORTING SYSTEM	<b>SITUATION RE</b>	PORTING SYS	STEM					
									(Reportir	(Reporting Month)							
Region:														R	Reference Quarter:	Jarter:	
Province:	ĺ													c			(Quarter's Standing Crop/Planting Intentions)
A. COMPARISON OF QUARTER'S PRESENT CROP SITUATION AND LAST QUARTER'S CROP FORECAST	rter's prese	NT CROP SI	TUATION AN	d last qu	ARTER'S CF	<b>tOP FOREC</b>	AST							L	PCPS Kound :		(JAN/APR/JULL/OCT)
								UPDATE	UPDATED QUARTER'S FORECAST	FORECAST							ā
tem	Last Quarter's			RDR					PDR				Su	Survey Result			Reason/s for Changes in Outster"s Foreneet
2	Forecast	Total	Harvested	Vegetative I Stage	Reproductive Stage	e Maturing Stage	Total	Harvested	Vegetative Stage	Reproductive Stage	Maturing Stage	Total	Harvested	Vegetative Reproductive Stage Stage		Maturing Stage	(Col. 3 and 8 vs Col. 2)
(1)	(2)	(3)	(4)	(2)	(9)	(1)	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(11)	(18)
CORN																	
Production (MI)																	
White												T					
Hvbrid																	
Modern OPV																	
Native OPV																	
Yellow																	
Hybrid																	
Modern OPV																	
Native OPV																	
Area Harvested (Ha)																	
Hybrid																	
Modern OPV																	
Native OPV																	
White																	
Hybrid													·				
Modern OPV																	
Native OPV																	
Yellow																	
Hybrid																	
Modern OPV																	
Native OPV																	

### Appendix D – CSD Form 2d (MPCSRS Regional/Provincial Report for Corn)

								UPDATED C	UPDATED QUARTER'S FORECAST	ORECAST							
Hom	Last Quarter's			RDR					PDR				SI	Survey Result			
	Forecast	Total	Harvested		Vegetative Reproductive Maturing Stage Stage Stage	Maturing Stage	Total	Harvested	Vegetative Stage	Reproductive Maturing Stage Stage	Maturing Stage	Total	Harvested	Vegetative Stage	Vegetative Reproductive Maturing Stage Stage Stage	Maturing Stage	Col. 3 and 8 vs Col. 2)
(1)	(2)	(3)	(4)	(5)	(9)	(1)	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Yield per Ha. (MT)																	
Hybrid																	
Modern OPV																	
Native OPV																	
White																	
Hybrid																	
Modern OPV																	
Native OPV																	
Yellow																	
Hybrid																	
Modern OPV																	
Native OPV																	
	lane and the second sec																

\* For damaged crop, submit corresponding damage report

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Instructional Line         Instruc									ACTU4	ACTUAL PLANTINGS (Ha)	5 (Ha)							
Initial functions       Stage of Crop Growth       Expected from Growth       E		Last Quarter's			RDR					PDR				S	urvey Result			Reason/s for Changes in
Vegetative         Mathing         Month         Vegetative         Mathing         Month         Mathing         Month         Mathing         Month         Mathing         Month         Vegetative         Reproductive         Mathing         Month         No         Mathing         Month         Mathing         Month         Mathing         Month         Vegetative         Reproductive         Mathing         Month         No         Mathing         Month         Mathing         Month         No         Mathing         Math         Mathing         Mathing	ITEM	Planting Intentions	TOTAL	お	ages of Crop Grov		Expected Harvest	TOTAL	Sta	ge of Crop Growtt		Expected Harvest	TOTAL	Stac	je of Crop Gro		Expected Harvest	Quarter's Forecast (Col. 3 and 8 vs Col. 2)
				Vegetative	Reproductive		Month	L	Vegetative	Reproductive	Maturing	Month		Vegetative	Reproductive	Maturing	Month	
CORN         CON         CON <td>(1)</td> <td>(2)</td> <td>(3)</td> <td>(4)</td> <td>(2)</td> <td>(9)</td> <td>(1)</td> <td>(8)</td> <td>(6)</td> <td>(10)</td> <td>(11)</td> <td>(12)</td> <td>(13)</td> <td>(14)</td> <td>(15)</td> <td>(16)</td> <td>(17)</td> <td>(18)</td>	(1)	(2)	(3)	(4)	(2)	(9)	(1)	(8)	(6)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
ORN         Image: Constraint of the second sec																		
White         Image: Contract of the contract	CORN																	
White         White         Mode         <																		
Yellow         Yelow </td <td>White</td> <td></td>	White																	
legebre - primityfrastistinfra ar fileing stage Reproductive - bobing bibonningtesseling stage Kalving - Mik, dugh ar freieng stage	Yellow																	
Byseller - e thandfort and fillering a bage deproductive - bobing to bohoming/baseling stage lakhing - Mir, dough and foreing stage																		
lakinic). Aliki, doughan di peneingi saga	(egetative - planting/transplanting and i keproductive - booting to blooming/tass	tillering stage seling stage																
	Maturing - Milk, dough and ripening sta	e																

Prepared by:

PSO

NOTED:

Date:



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