

Philippine Statistics Authority

Rice and Corn Stocks in the Philippines

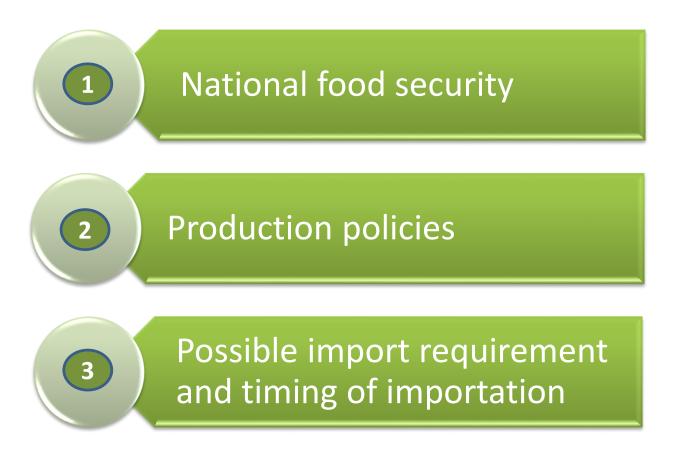
Reynante A. Santos, Statistical Specialist II Juditha C. Perido, Senior Statistical Specialist Crops Statistics Division, Economic Sector Statistics Service Sectoral Statistics Office Philippine Statistics Authority

> 9-11 November 2016 New Delhi, India



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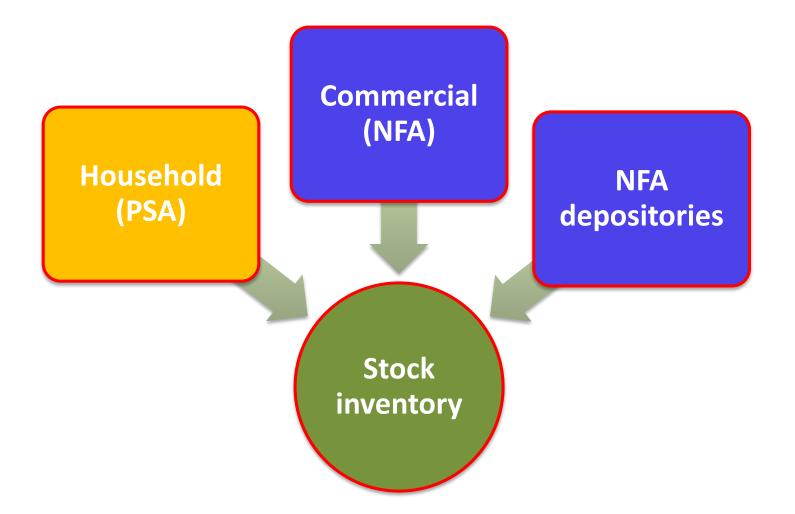
Why Monitor Rice and Corn Stocks Situation?





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Stocks Inventory by Sector





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Palay and Corn Stocks Survey (PCSS1)





Objectives

- to generate estimate of current stock of rice and corn in farming and non-farming households;
- to serve as input in the analysis of the seasonal trends and variations in the supply of rice and corn;
- to serve as input for forecasting future supply, demand and prices of palay and corn; and
- to assist policy-makers in the formulation, implementation and administration of agricultural economic programs



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Household Stocks

Concept and Definition

Type of Corn

- 1. White corn that is used primarily for human consumption
- 2. Yellow corn that is generally used as feed grain (includes all types of corn other than white).



Ears of matured corn - Corn in the cob that are harvested as they reach full maturity or at hard dough stage.



<u>Shelled corn</u> - Corn grains that have been removed from the cob.



<u>Ears of green corn</u> - Young corn in the cob that are harvested on or before they reach full maturity. They are either at soft or hard dough stage (for boiling or broiling).



<u>*Corn Grits*</u> - Milled corn grains where the outer covering and germs have been removed.



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Household (HH) classification:

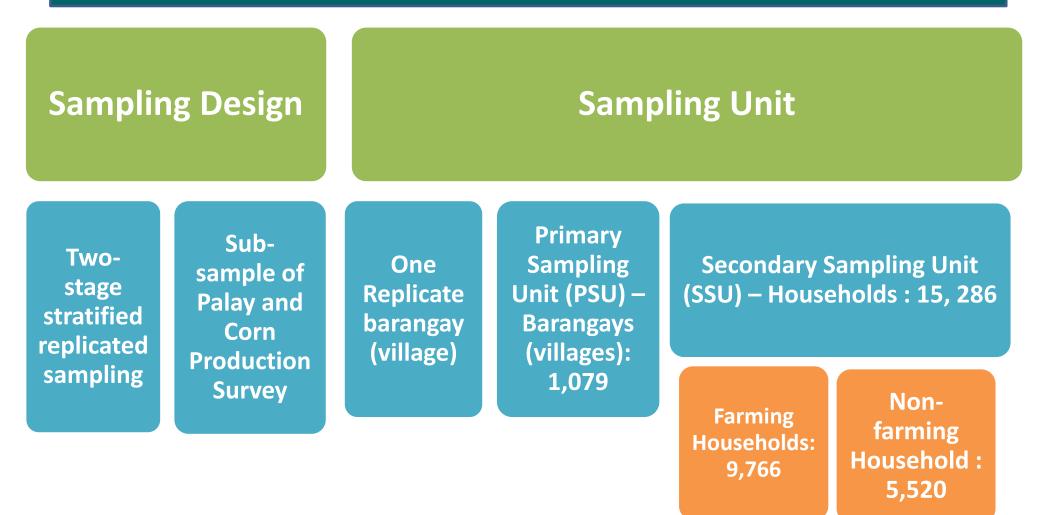
- 1. Farming household
 - refers to any household in which a member operates an agricultural land, either solely or jointly with other members, and the aggregate area operated by the operator-members of such household qualified to be called a farm.
- 2. Non-farming household
 - refers to household with no agricultural area or activity and is chosen through the right coverage approach.



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Household Stocks

Sampling Design





Estimation Procedure

The estimate of the total stock in the province is simply obtained by:

a. Get the average stock by household-

dividing the total stock(by type) by the number of responding households

under the farming and non-farming.

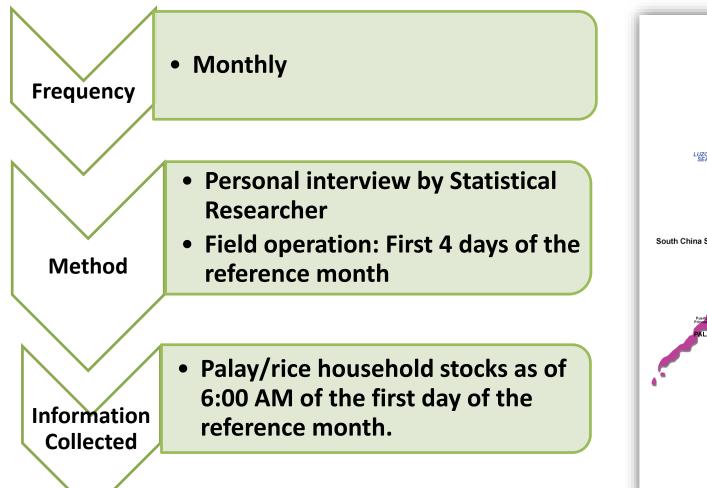
- b. Multiply the average stock by the total number of farming and non-farming households (expansion factor).
- c. Multiply the estimated palay stock to 65% to get the rice equivalent.
- d. Divide the estimated corn grits stock by 68 % to get the corn grain equivalent.
- e. Add the estimated stocks held by the farming and non-farming households.

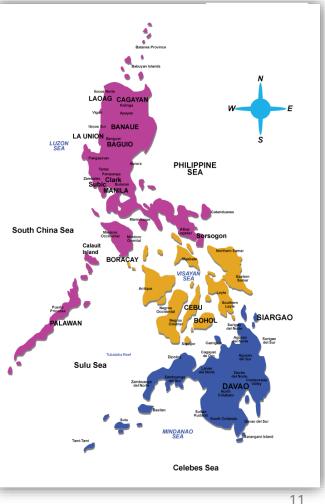


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Household Stocks

Data Collection







Househol	d Stocks
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	Survey For	m									
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		PALA	Y A N		RN S PCSS	тоск 1)	S SUR	VEY	Sheet No. for this	PCSS FORM of classification of	Sheets
PRO	/INCE :			(Mont	th)	1,	20 Year			_	
BARA	CIPALITY :			-		HOU	JSEHOLD CLAS	SIFICATION:	Farming		Non-Farming
A. QU	ANTITY OF PALAY/RICE STOCKS I	N THE HOUSE AS OF	- 6.66 A.M	-							
			RELATION-		РА	LAY			B	ICE	
LN	NAME OF HOUSEHOLD HEAD	NAME OF RESPONDENT	SHIP TO HOUSEHOLD HEAD (+nter c=d+)	IN UNIT USED Example : Sack	NUMBER OF UNITS	NIT VEIGHT (in kg) OF ONE UNIT	FOR OFFICE USE ONLY (kg) col. (6 x 7)	IN UNIT USED Example : Sack	NUMBER OF UNITS	JIT VEIGHT (in kg) OF ONE UNIT	FOR OFFICE USE ONLY (kg) col. (10 x 11)
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11	BGY.TOTAL THIS HH CLASSIFICATION		50			- <u></u>					
-	RTANT:					RELATIONS	HIP TO HOUSE	HOLD HEAD: 4	(column 4)		
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	rcial granaries (nicercorn reea rills) I T INCLUDE ounedstocks which arestored in	commercial warehoures				2. Spouro 3. Son/Daughtor					



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PCSS FORM 1A

Page 2

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			YEL	LOW			WH	ITE			YELI	LOW			WH	ITE	
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CORN GRAIN - Ears of Maturad Core 2.071

Enumerated by:	
Date of Enumeration:	

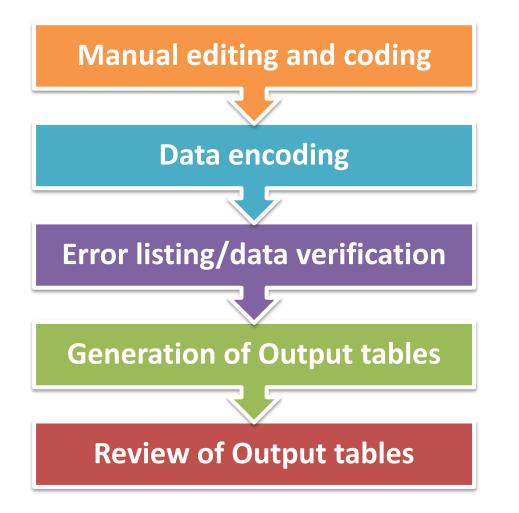
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Household Stocks

Data Processing



- $\circ~$ Decentralized data processing
- Census and Survey Processing System (CSPro 6.1)

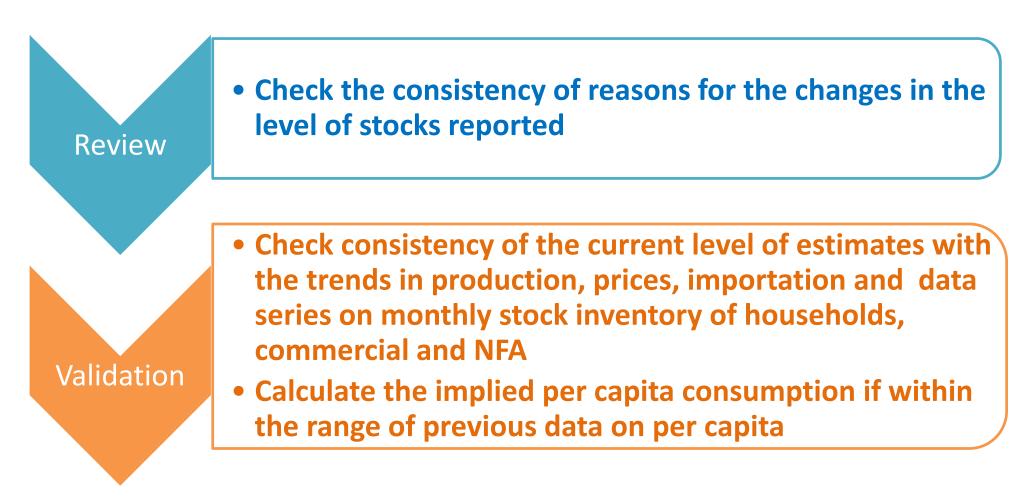




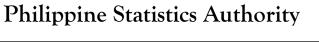
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Household Stocks

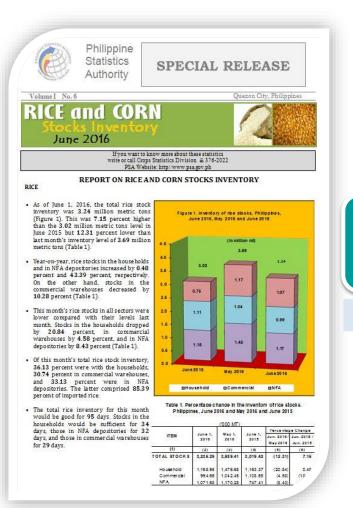
Data Review and Validation







Output and Dissemination



Special Release

Rice and Corn Stocks Inventory

• Released 10th day after the reference month



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Home The PSA

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	Economic	Social		Multi-Sectoral	Advance R	elease Calenda	r
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atistical Figures	Prices and Related Indice	Crops	Rice a	nd Corn Situation and Outlook		ative-based	•
Population	Other Economic Indicator	Fisheries Situationer	Month	y Rice and Corn Stock Inventory			
As of Aug 2015		Livestock and Poultry	Major	Vegetables and Root Crops Quarterly Bull	letin		
Gross National Income	7.60%		Major	Non - Food and Industrial Crops Quarterly	y Bulletin		
As of First Quarter 2016	7.00%	SUPPOR	Major	Fruit Crops Quarterly Bulletin		ties	
Gross Domestic Product As of First Quarter 2016	6.90%		P	HILIPPINE STATISTICS AUTHORITY	£1		
Inflation Rate As of Jun 2016	1.90%			n Cooperation with: OH, DFA, DOJ, DepEd, DSWD, DILG, Office	of the Cabinet S	ecretary, Popco	m
Total Exports						<	
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Search



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Good Practices

Management of Sampling Units

- Monitoring of samples status and outcome of the interview
- **o Documentation of response rate**
- Updating of the list of agricultural households



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Data Collection

 Conduct of training/orientation prior to the implementation of data collection

- Mock interview
- Dry run exercise
- Conduct of spot-checking and back-checking activities by the Provincial Office and Central Office staff

Data Processing

- Manual editing prior to data encoding to check completeness of entries and consistency with other data items in the questionnaire
- Computerized editing to capture invalid entries



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Household Stocks

Data			
Data	Review and	Ana	IVSIS

- Three levels of data review:
 - Provincial level
 - o Regional level
 - o National level

Data Dissemination

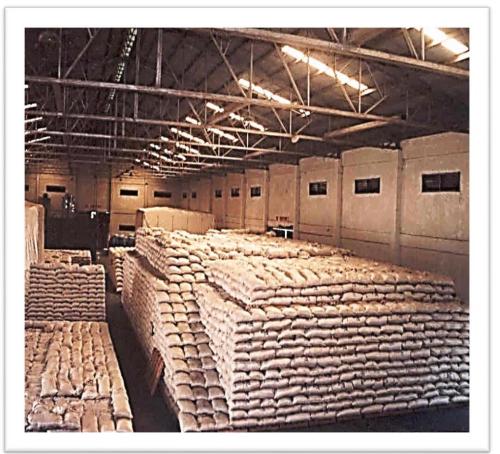
 Subscription to the existing policies regarding the release of statistical reports.



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Commercial Stock Survey (CSS)







What is Commercial Stock Survey (CSS)?

- Commercial Stock Survey (CSS) monitoring system adopted by National Food Authority (NFA) to generate estimates on <u>commercial rice, corn and stocks</u> <u>inventory</u> held by the commercial sector at the national, regional & provincial level.
- Recognized as an official government statistics effective January 1980 by the National Economic and Development Authority (NEDA).



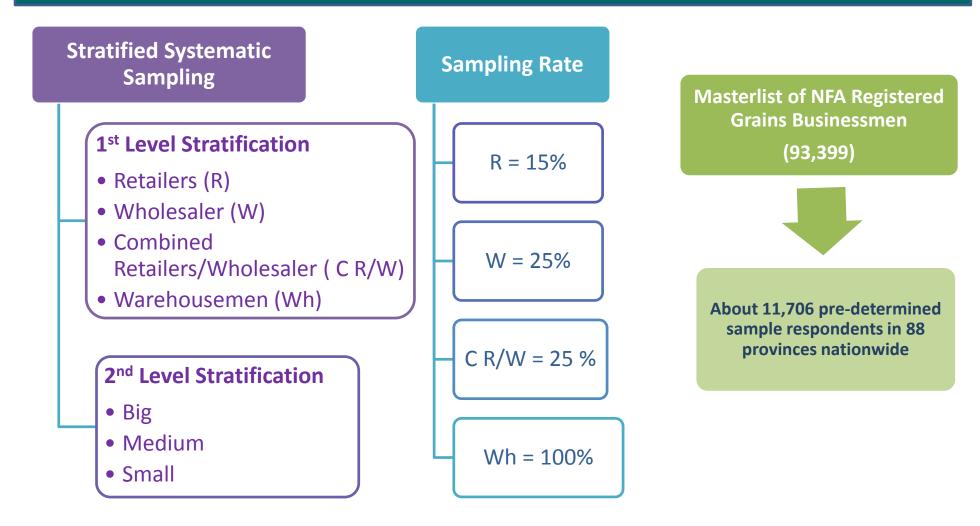


Objectives

- To determine the apparent grains stock inventory for rice and corn held by the commercial sector, which would serve as inputs vital to policy and decision-making in the government.
- To obtain from NFA registered grains businessmen a realistic and reliable statistics being used as one of the indicators for food security purposes in the country.



Sampling Design

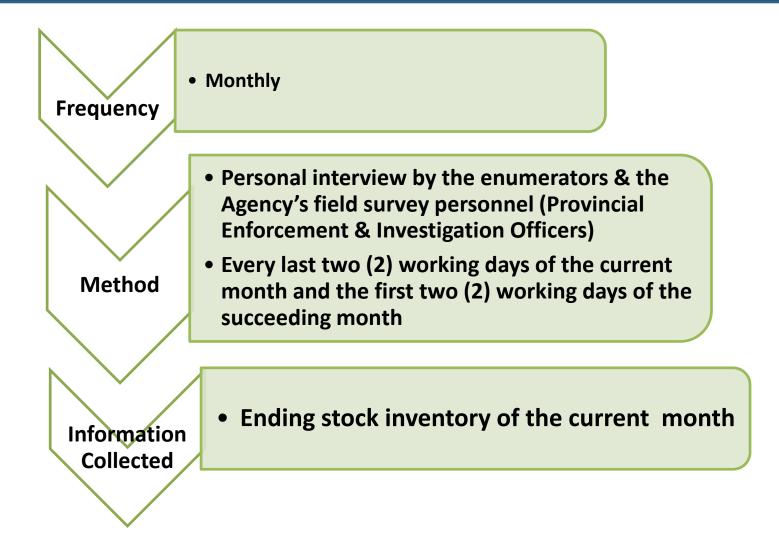




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Commercial Stocks

Data Collection



Commercial Stocks

Survey Form

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	CO	OMMERCIA	AL STOCK SUF	VEY	QUESTIONNA	IRE				
	SAMPLE IDE A. Respondent		ON							
	B. Signature	s mame.								
	C. Name of Est	tablishment:								
	D. Province/Ci									
	E. Major Stratu									
	F. Sub-Stratum G. Control No.									
			terviewed:							
	I. Relation to S									
	ENUMERATO	DE IDENT	FICATION							
				:						
	B. Date of Inte	rview:	-							
	C. Printed Nam D. Date of Inte		re of Enumerator	:						
	D. Date of Inte	rview:								
PROVINCIAL SUPERVISOR/EDITOR'S IDENTIFICATION										
	A. Printed Nan B. Signature:		ovincial Officer:							
	C. Date Edited									
	e. Bute Buteu	-								
STOCKS AS OF										
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	PALAY RICE									
	CORN GRITS									
	CORN GRAINS OTHERS									
	(SPECIFY)									
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	. –	SOURCE	of 50 kg)		DESTINATION	50 kg)				
	PALAY RICE					-				
	CORN GRITS									
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	PALAY RICE									
	CORN GRITS									
	CORN GRAINS									
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	OTHERS SPECIFY									



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Commercial Stocks

Data Processing

Collation and summarization of gathered data by the provincial office

• Every 3rd to 4th working day of the month

Summarization

Submission

- Preparation and submission of the final report by the NFA-provincial office personnel to NFA-Central Office
- On or before 8th working day of the month

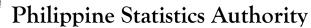
- Consolidation/ Processing of all final reports submitted by provincial offices nationwide
- Eighth (8^{th)} day up to 18th day of each month

Consolidation

Report

- Preparation, finalization and submission of the CSS Final Report to the NFA Administrator
- Nineteenth (19th) day up to the twenty first (21st) day of the month





Good Practices

- **Religious conduct of CSS by enumerators**
 - Respondents affix their signatures in the duly accomplished CSS questionnaires
 - Timely submission of Accomplished CSS questionnaires
- Cooperation from grains businessmen-respondents in the provision of stock inventory data to enumerators/NFA delegated survey personnel.



Identified Data Gaps

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- List of grains businessmen contained in the Masterlist of NFA Registered Grains Businessmen not updated in some areas.
- Irregular conduct of field validation to verify and ensure the quality and accuracy of data collected.

Lack of manpower to generate the Masterlist

Budgetary constraint

 Complaints from enumerators on the high transportation cost incurred in the conduct of survey, thereby discouraging them to continue working for CSS.

Accuracy and reliability of data suffer due to constant re-hiring of enumerators



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Commercial Stocks

Areas for Improvement

NFA Masterlist of Registered Grains Businessman

• Requires regular updating due to the possible changes in their line of activity, capitalization, etc.

CSS Assessment/Validation

 Review, revisit and validate if field offices adopt the set of statistical methodology as indicated in CSS Implementing Guidelines

Review of the Existing CSS Implementing Guidelines

• Determine the need to modify some provisions to further improve the conduct of survey



NFA – Grains Businessmen Relationships

• Strengthen further linkage to attain a more realistic and factual data.

Budgetary Requirement

• Provision of transportation allowance for hired enumerators that will encourage them to continue working for CSS.

