



REPUBLIC OF THE PHILIPPINES
PHILIPPINE STATISTICS AUTHORITY BOARD

PSA Board Resolution No. 15
Series of 2022

**APPROVING AND ADOPTING THE NEW SAMPLING DESIGN OF THE RICE
AND CORN STOCKS SURVEY: COMMERCIAL**

WHEREAS, Executive Order (EO) No. 352, "Designation of Statistical Activities That Will Generate Critical Data for Decision Making of the Government and the Private Sector" issued on 01 July 1996, established the System of Designated Statistics (SDS) in the Philippine Statistical System;

WHEREAS, the SDS is a mechanism that identifies and designates the most critical and essential statistics required for social and economic planning/analysis based on approved criteria;

WHEREAS, the Rice and Corn Stocks Survey: Commercial (RCSS:C) is one of the statistical activities conducted monthly by the PSA, and is included in the SDS;

WHEREAS, the RCSS:C is a monthly survey which aims to assess the current rice and corn stocks inventories in the commercial warehouses, wholesalers, and retailers across the country and provides data on commercial stocks inventory at the national level;

WHEREAS, the current sampling design of the RCSS:C uses the 2017 National Food Authority (NFA) List of Registered Grains Businessmen as the sampling frame and employs a two-stage systematic sampling where the first stage stratification variable is the line of activity of the grains businessmen (retailers, wholesalers, combined retailers-wholesalers, and warehousemen) and the second variable is the businessmen' capitalization (small, medium, and big);

WHEREAS, the major limitations of the current sampling design include the following: (a) Outdated sampling frame considering that the NFA has no more regulatory function therefore opening and closing of establishments are not accounted; (b) Capitalization structures of the regions in the second level stratification were outdated; and (c) The coverage of the survey is based on NFA operations wherein there are samples which are located in other provinces and counted to the province based on NFA grouping;

WHEREAS, the abovementioned major limitations of the current sampling design of the RCSS:C were the motivations in the redesigning to come up with more efficient sampling design for the survey;

WHEREAS, after series of reviews, survey data experiments, and conduct of pilot survey, a Probability Proportional to Size Systematic Sampling (PPS-Sys) is proposed with the following details:

- (a) The domain are the regions and the provinces as the stratification;
- (b) The sampling size is 20 percent (20%) of total establishments engaged in palay and/corn trading plus approximately 10 percent (10%) oversampling by province;
- (c) The sampling unit are the establishments engaged in palay and/or corn trading;
- (d) Total Employment (TE) is the size measure variable, and the establishments engaged in rice and/or corn trading in selected sectors of the 2021 Updated List of Establishment (ULE) is the sampling frame; and
- (e) A panel sample of establishments is maintained for a year, and sampled establishments will be replaced only after a year.

WHEREAS, the proposed design has the following advantages: (a) increases precision of estimates as confirmed in the results of the pilot survey, thus generating more reliable rice and corn stocks statistics; (b) expanded coverage by the inclusion of Batanes, Guimaras, Davao Occidental, and Dinagat Islands; and (c) the use of the latest available sampling frame;

WHEREAS, the Interagency Committee on Agriculture and Fishery Statistics (IACAFS) reviewed and approved the PSA's proposal for the new sampling design of the RCSS:C;

WHEREAS, the PSA shall implement the use of the proposed sampling design of the RCSS:C starting first quarter of 2023;

NOW, THEREFORE, BE IT RESOLVED, that the PSA Board hereby approves the adoption of the new sampling design for the RCSS:C with the following details, to wit:

- (a) The sampling design is Probability Proportional to Size Systematic Sampling (PPS-Sys);
- (b) The domain are the regions and the provinces as the stratification;
- (c) The sampling size is 20 percent (20%) of total establishments engaged in palay and/corn trading plus approximately 10 percent (10%) oversampling by province;
- (d) The sampling unit are the establishments engaged in palay and/or corn trading;



- (e) Total Employment (TE) is the size measure variable, and the establishments engaged in rice and/or corn trading in selected sectors of the 2021 Updated List of Establishment (ULE) is the sampling frame; and
- (f) A panel sample of establishments is maintained for a year, and sampled establishments will be replaced only after a year.

Approved this 2nd day of December 2022 in Quezon City.



ARSENIO M. BALISACAN, Ph.D.
Secretary
National Economic and Development Authority
Chairperson, PSA Board



Attested by:



DENNIS S. MAPA, Ph.D.
Undersecretary
National Statistician and Civil Registrar General
Philippine Statistics Authority
Chairperson, PSA Board Secretariat

