



REPUBLIC OF THE PHILIPPINES
PHILIPPINE STATISTICS AUTHORITY BOARD

**PSA Board Resolution No. 06
Series of 2021**

**APPROVING AND ADOPTING THE NEW SAMPLING DESIGN OF THE
QUARTERLY AQUACULTURE SURVEY**

WHEREAS, the Quarterly Aquaculture Survey (QAqS) is one of the statistical activities conducted quarterly by the Philippine Statistics Authority (PSA), and is the main source of data on volume and value of production per aquafarm type at the provincial level;

WHEREAS, the current sampling design of the QAqS uses a sampling frame based on the 2017 Updating of List of Aquaculture Farms (ULAF) and the municipalities included are those that composed the eighty percent (80%) of the total area of aquafarms per province;

WHEREAS, the QAqS implements a panel survey, thus, the same sets of aquafarms are used as samples every quarter;

WHEREAS, the major limitations of the current sampling design include the following: (a) fixed selection of samples, hence, it could not capture over time the entry and exit of households in the aquaculture sector; and (b) the sampling design was developed in the early 2000, therefore it does not employ additional information found in the Updating of List of Aquafarms like the farm area in its sampling design;

WHEREAS, the abovementioned limitations of the current sampling design of the QAqS were the motivations in modifying the same to come up with a more efficient and accurate sampling design for the survey;

WHEREAS, after series of reviews, simulation of various possible scenarios and conduct of pilot survey, a Probability Proportional to Size Systematic Sampling (PPS-Sys) Single Stage Survey is proposed with the following details:

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- (a) The household with aquafarm is the sampling unit and the selection method is Probability Proportional to Size Systematic Sampling with aquafarm area as the measure of size;
- (b) The domain is province and fifteen percent (15%) of the total farms by aquafarm type are taken as sample for each province;
- (c) Since sampling per aquafarm type per province is independent, it is treated as stratum, and certainty samples are treated as separate stratum per aquafarm type; and
- (d) A panel sample of aquafarms is maintained for a year, and a new set of samples is selected every first quarter of the succeeding 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 aquaculture statistics; and
 (b) ensures representativeness of drawn samples and use of appropriate measure of size for the survey, and the use of the latest available sampling frame;

WHEREAS, the Interagency Committee on Agriculture and Fishery Statistics (IACAFS) endorses the proposed new sampling design of the QAqS for approval of the PSA Board;

WHEREAS, the PSA shall implement the use of the proposed sampling design of the QAqS starting first quarter of 2022;

NOW, THEREFORE, BE IT RESOLVED that the PSA Board approve the adoption of the new sampling design for the QAqS with the following details, to wit:

- (a) The household with aquafarm is the sampling unit and the selection method is Probability Proportional to Size Systematic Sampling with aquafarm area as the measure of size;
- (b) The domain is province and fifteen percent (15%) of the total farms by aquafarm type are taken as sample for each province;
- (c) Since sampling per aquafarm type per province is independent, it is treated as stratum, and certainty samples are treated as separate stratum per aquafarm type; and

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(d) A panel sample of aquafarms is maintained for a year, and a new set of samples is selected every first quarter of the succeeding year.

Approved this 11th day of May 2021, in Metro Manila.



KARL KENDRICK T. CHUA
Secretary of Socioeconomic Planning
National Economic and Development Authority
Chairperson, PSA Board

Attested by:



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Undersecretary *hu m*
National Statistician and Civil Registrar General
Philippine Statistics Authority
Chairperson, PSA Board Secretariat *nk*