

TECHNICAL NOTES

Seasonally Adjusted Value of Production in Philippine Agriculture and Fisheries (at Constant 2018 Prices)

I. The Introduction

The Seasonally Adjusted Value of Production in Agriculture and Fisheries presents the accomplishments of agriculture and fisheries during a particular reference period without the effects of seasonal factors. It covers all agriculture and fishery commodities, highlighting 22 commodities for crops, nine commodities for livestock and poultry, and 20 commodities for fisheries.

By removing the seasonal component from the series, seasonal adjustment reveals the true movement or behavior, enabling comparisons across time periods.

II. Data Collection and Registration System

The generation of the original series on the Value of Production in Agriculture and Fisheries requires data on volume of production and farmgate prices. These data are sourced from the following PSA surveys and administrative-based records from other government agencies:

Variable	Source
1. Volume of Production by commodity	
a. Crops	Palay Production Survey (PPS)
	Corn Production Survey (CPS)
	Crops Production Survey (CrPS)
b. Livestock and Poultry	Backyard Livestock and Poultry Survey (BLPS)
	Commercial Livestock and Poultry Survey (CLPS)
c. Fisheries	Quarterly Municipal Fisheries Survey (QMFS)
	Quarterly Inland Fisheries Survey (QIFS)
	Quarterly Commercial Fisheries Survey (QCFS)
	Quarterly Aquaculture Survey (QAqS)

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Variable	Source
2. Farmgate Prices	
a. Crops	Farm Prices Survey (FPS) CPS CrPS
b. Livestock and Poultry	FPS, BLPS, and CLPS
c. Fisheries	QMFS
	QIFS
	QCFS
	QAqS
3. Administrative Data	
a. Volume of Production of Centrifugal Sugar and Raw Sugar	Sugar Regulatory Administration (SRA)
b. Dairy Production and Price for Goat and Cattle	National Dairy Authority (NDA)
c. Dairy Production and Price for Carabao	Philippine Carabao Center (PCC)
d. Volume and Value of Commercial Fish Unloadings	Philippine Fisheries Development Authority (PFDA), Local Government Units (LGUs), and Privately Managed Landing Centers
e. Volume and Value of Municipal Fish Unloadings	PFDA and LGUs

III. Methodology

The Seasonal Adjustment of the Value of Production in Agriculture and Fisheries uses the internationally recommended seasonal adjustment method which is the X-13 Auto-Regressive Integrated Moving Average (ARIMA) of JDemetra+.

The Seasonally Adjusted Value of Production in Agriculture and Fisheries is generated using Indirect Approach, or by seasonally adjusting the following: 22 highlighted commodities for crops and other crops; nine commodities for livestock and poultry; and 20 commodities for fisheries and other fisheries. Thereafter, the seasonally adjusted components are being added to produce the indirect seasonal adjustment aggregates.

To ensure the quality of generated seasonally adjusted estimates, Quality Statistic (Q-statistic) is measured for each adjusted series.

IV. Concepts and Definition of Terms

Value of Production at Constant Prices refers to the valuation of transactions, wherein the influence of price changes from the base year to the current year has been removed.

Seasonality (seasonal component) is a regular fluctuation with similar patterns and magnitude that repeatedly occur within a calendar year and normally observed for high frequency data such as monthly and quarterly series. (*Seasonally Adjusted National Accounts: Sources and Methods, 2023*)

Seasonal Adjustment is a statistical technique to remove the effects of seasonal influences operating on a time series. (*Seasonally Adjusted National Accounts: Sources and Methods, 2023*)

V. Dissemination of Results

The Special Release on the Seasonally Adjusted Value of Production in Philippine Agriculture and Fisheries is being released quarterly in the PSA website.

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Seasonally Adjusted Value of Production in Agriculture and Fisheries Report	Schedule of Release
First Quarter of the Current Year	May of the Current Year
Second Quarter of the Current Year	August of the Current Year
Third Quarter of the Current Year	November of the Current Year
Fourth Quarter of the Current Year	January of the Succeeding Year

Special release, statistical tables, and infographics are included in the web release.

VI. Citation

Philippine Statistics Authority. (2024). *Technical Notes on Seasonally Adjusted Value of Production in Philippine Agriculture and Fisheries*. <https://psa.gov.ph/node/1684063693>

VII. Contact Information

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