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PHILIPPINE STATISTICS AUTHORITY

Agricultural Indicators System

Prices and Marketing of Agricultural Commodities





The Agricultural Indicators System (AIS)

is an annual publication prepared by the Agricultural Accounts Division of the PHILIPPINE STATISTICS AUTHORITY (PSA)

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FOREWORD

The Agricultural Indicators System (AIS) is one of the statistical indicator frameworks maintained by the Philippine Statistics Authority. It contains eight modules which are updated and released annually. These modular reports provide measures for assessing socio-economic changes in the agriculture sector, characterizing the agrarian structure of the economy, and situating agriculture in the national economy.

This is the eighth module entitled Prices and Marketing of Agricultural Commodities. It provides information on the movement in the prices of selected agricultural commodities. The reference years are 2018 to 2021.

The AIS aims to cover more agricultural development indicators to support the information needs of our data users. We encourage the readers to give their comments and suggestions on the improvement of the AIS, in general, and this report, in particular.

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Quezon City, Philippines November 2022

PHILIPPINE STATISTICS AUTHORITY

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TECHNICAL NOTES

- 1. The report highlights a five-year data series on indicators relating to Prices and Marketing of Agricultural Commodities.
- 2. The basic data are sourced from the Farm Prices Survey, and Retail Price Survey of Commodities for the generation of the Consumer Price Index (CPI) conducted by the Philippine Statistics Authority (PSA).
- 3. Farmgate and retail price statistics are based on the new series wherein the monthly average farmgate price by region per commodity is computed as the arithmetic mean of the average prices of the provinces. For the national level, the monthly average farmgate price per commodity is the arithmetic mean of the average prices of the regions.
- 4. The 2021 edition of this report covers the years 2018-2021 to account for the new base year 2018 of the price statistics.
- 5. Concepts and Definitions

Percentage of Produce Marketed—is that portion of total production which enters the marketing channels. It measures the proportion of total quantity marketed or sold and quantity given to landowner to total production. Landowner's share is included based on the assumption that the bulk of the share will also be marketed.

Percentage of the	Proportion of	Proportion of Produce
Produced Marketed =	Produce Sold	Given to Landowner'Share

Consumer Price Index (CPI) – indicates the change in the average prices of a fixed basket of goods and services commonly purchased by households relative to a base year.

Farm Price – refers to the price received by a farmer for the sale of his/her crops at the first point of sale. This price depends on the place of sale which may be within the production site, at the wholesale market, retail market, or other areas.

Retail Price - refers to the price at which a commodity is sold in small quantities for consumption.

Farm-Retail Price Gap – measures the price mark-up of the commodity as it leaves the farmgate to the different marketing channels until it reaches the consumer. It is the difference between the farm price and the retail price expressed as percentage of the farm price. It indicates the percentage increase in the price from the first point of sale to the retail level.

$$Farm - Retail \ Price \ Gap \ = \left[\begin{array}{c} \frac{Retail \ Price \ - \ Farm \ Price}{Farm \ Price} \end{array} \right] \times \ 100$$

Farmer's Share in Final Price – indicates the proportion of the prices received by farmers (farm price) to the final price (retail price) of the commodity. This gives a measure of the share of the producers compared to the share of the traders.

Farmer'Share in Final Price =
$$\begin{bmatrix} Farm Price \\ Retail Price \end{bmatrix} \times 100$$

PRICES AND MARKETING OF AGRICULTURAL COMMODITIES

Consumer Price Index (CPI) and Inflation Rate

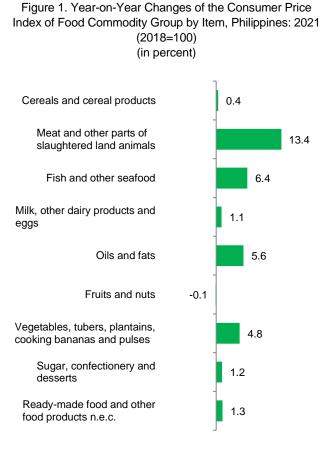
The Consumer Price Index (CPI) is an indicator of the change in the average retail prices of a fixed basket of goods and services commonly purchased by households relative to a base year. The inflation rate is the annual rate of change or the year-on-year change of the CPI expressed in percent.

From 2018 to 2021, the country's headline inflation posted increments. In 2021, inflation rate was at 3.9 percent, faster than the 2.4 percent inflation registered in 2020.

The indices of all commodity groups recorded annual increases in 2021. Specifically, financial services recorded the highest annual increase in index at 32.5 percent. Annual increases were also higher in the indices of alcoholic beverages and tobacco at 9.7 percent, transport at 9.3 percent, health at 3.8 percent, and restaurants and accommodation services at 3.5 percent. (Table 1c)

Inflation for food at the national level grew by 4.5 percent in 2021, faster than the 2020 record of 2.9 percent. Except for fruits and nuts, all food groups exhibited annual increments. The index for meat and other parts of slaughtered land animals reported the highest annual increase of 13.4 percent. This was followed by fish and other seafood at 6.4 percent, oils and fats at 5.6 percent, and vegetables, tubers, plantains, cooking bananas and pulses at 4.8 percent. Annual growth rates of the indices of cereals and cereal products, milk, other products dairy and eggs, sugar, confectionery and desserts. and ready-made food and other food products, ranging from 0.4 percent to 1.3 percent, were also observed. (Table 1d and Figure 1)

The monthly CPI for all items showed fluctuating trend from January to December 2021. The highest monthly headline inflation was recorded in August at 4.4 percent. The monthly index of financial services maintained a higher CPI at 43.3 percent from April to December.



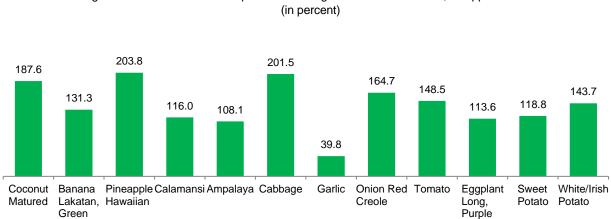
Source: Philippine Statistics Authority

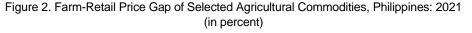
This was followed by the monthly index of alcoholic beverages and tobacco, which recorded year-on-year increases from 11.3 percent in January to 6.2 percent in December. The lowest CPI was reported for information and communication with an average growth of 0.6 percent. (Table 1g)

For the food index, February had the highest growth of 6.8 percent, while the lowest was reported in December at 1.6 percent. By food group, the monthly indices for meat and other parts of slaughtered land animals registered the highest increment which ranged from 8.3 percent to 18.1 percent. Uptrends in the monthly CPI were maintained in oils and fats, and sugar, confectionery, and desserts. Meanwhile, indices of fruits and nuts declined by an average of -0.1 percent. (Table 1h)

Price Gap

The price gaps or mark ups of the different agricultural commodities between the farmgate and the retail levels indicate the formation of prices and the shares of market participants in the prices paid by the consumers.





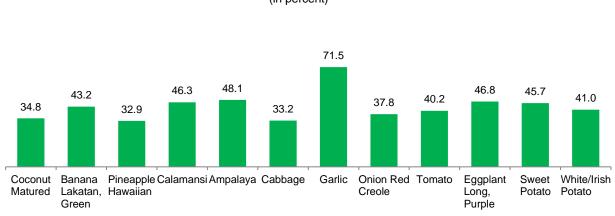
Source: Philippine Statistics Authority

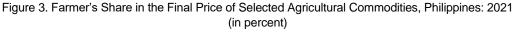
Among the reference crops, the 2021 farm-retail price gap of tomato reported the highest gap of 148.5 percent. It means that the price mark-up of tomato from farm to retail was 148.5 percent of its farm price. Similarly, bigger price gaps were also observed in pineapple hawaiian at 203.8 percent and garlic at 39.8 percent. Increasing price gaps were also noted in banana lakatan, green at 131.3 percent, sweet potato at 118.8 percent, and ampalaya at 108.1 percent.

On the other hand, coconut matured posted the highest reduction in price gap which went down to 187.6 percent. This was followed by calamansi at 116.0 percent and cabbage at 201.5 percent. (Table 2 and Figure 2)

Farmer's Share in Final Price of Agricultural Commodities

This indicator presents the proportion of the prices received by the farmers to the final price of the commodity. It gives a measure of the share of the producers compared to the share of the traders. It also indicates which commodity gives the farmer, the bigger share.





The farmer's share in the final price of selected agricultural commodities exhibited fluctuating trend from 2018 to 2021. In 2021, growers of coconut matured and calamansi reported the biggest increase in shares corresponding to 34.8 percent and 46.3 percent. Likewise, cabbage producers registered higher shares at 33.2 percent. Increases in shares were accounted for farmers of onion red creole, eggplant long purple, and white/irish potato ranging from 37.8 percent to 46.8 percent. Meanwhile, decreases in shares of farmers in the final prices of the following commodities were noted in 2021: pineapple hawaiian at 32.9 percent, tomato at 40.2 percent, banana lakatan at 43.2 percent, sweet potato at 45.7 percent, garlic at 71.5 percent, and ampalaya at 48.1 percent. (Table 3 and Figure 3)

Source: Philippine Statistics Authority

Statistical Tables

Table 1a. Consumer Price Index by Commodity Group, Philippines: 2018-2021 (2018=100) (in percent)

Commodity Group	2018	2019	2020	2021
All Items	100.0	102.4	104.8	108.9
Food and Non-Alcoholic Beverages	100.0	101.7	104.6	109.0
Alcoholic Beverages and Tobacco	100.0	112.0	129.2	141.7
Clothing and Footwear	100.0	102.6	105.0	106.9
Housing, Water, Electricity, Gas,				
and Other Fuels	100.0	102.5	103.2	105.8
Furnishing, Household Equipment, and				
Routine Household Maintenance	100.0	102.9	106.2	108.5
Health	100.0	104.0	108.1	112.2
Transport	100.0	101.2	102.7	112.3
Information and Communication	100.0	100.4	100.9	101.5
Recreation, Sport and Culture	100.0	103.5	104.5	104.8
Education Services	100.0	103.9	105.9	106.9
Restaurants and Accommodation Services	100.0	103.5	105.7	109.4
Financial Services	100.0	100.0	100.0	132.5
Personal Care, and Miscellaneous Goods				
and Services	100.0	102.4	104.8	107.2

Table 1b. Consumer Price Index of Food Commodity Group by Item, Philippines: 2018-2021 (2018=100) (in percent)

Commodity Group	2018	2019	2020	2021
Food	100.0	101.5	104.4	109.1
Cereals and cereal products	100.0	97.7	95.7	96.1
Meat and other parts of slaughtered				
land animals	100.0	103.8	107.1	121.5
Fish and other seafood	100.0	103.9	110.3	117.4
Milk, other dairy products and eggs	100.0	102.4	106.5	107.7
Oils and fats	100.0	101.6	104.0	109.8
Fruits and nuts	100.0	105.2	118.2	118.1
Vegetables, tubers, plantains, cooking				
bananas and pulses	100.0	102.7	113.2	118.6
Sugar, confectionery and desserts	100.0	102.0	102.6	103.7
Ready-made food and other				
food products n.e.c.	100.0	104.5	109.3	110.7

Table 1c. Year-on-Year Changes of the Consumer Price Index by Commodity Group, Philippines, 2019-2021 (2018=100)

(20	10=100)
(in	percent)

Item	2019	2020	2021
All Items	2.4	2.4	3.9
Food and Non-Alcoholic Beverages	1.6	2.9	4.2
Alcoholic Beverages and Tobacco	12.0	15.4	9.7
Clothing and Footwear	2.6	2.3	1.8
Housing, Water, Electricity, Gas,			
and Other Fuels	2.5	0.7	2.5
Furnishing, Household Equipment, and			
Routine Household Maintenance	2.9	3.2	2.1
Health	4.0	3.9	3.8
Transport	1.1	1.5	9.3
Information and Communication	0.4	0.5	0.6
Recreation, Sport and Culture	3.5	1.0	0.3
Education Services	3.9	2.0	0.9
Restaurants and Accommodation Services	3.5	2.1	3.5
Financial Services	0.0	0.0	32.5
Personal Care, and Miscellaneous Goods			
and Services	2.4	2.4	2.3

Table 1d. Year-on-Year Changes of the Consumer Price Index of Food Commodity Group by Item, Philippines, 2019-2021 (2018=100)

(2010=100)

(in percent)

Item	2019	2020	2021
Food	1.4	2.9	4.5
Cereals and cereal products	-2.3	-2.0	0.4
Meat and other parts of slaughtered			
land animals	3.8	3.2	13.4
Fish and other seafood	3.9	6.2	6.4
Milk, other dairy products and eggs	2.4	4.0	1.1
Oils and fats	1.6	2.3	5.6
Fruits and nuts	5.2	12.3	-0.1
Vegetables, tubers, plantains, cooking			
bananas and pulses	2.7	10.2	4.8
Sugar, confectionery and desserts	2.0	0.6	1.2
Ready-made food and other			
food products n.e.c.	4.5	4.6	1.3

Table 1e. Consumer Price Index by Commodity Group and by Month, Philippines: 2021 (2018=100) (in percent)

Commodity Group	Jan	Feb	Mar	Apr	Мау	Jun	Jul
All Items	108.4	108.5	108.2	108.1	108.1	108.3	108.8
Food and Non-Alcoholic Beverages	110.7	110.3	108.9	108.4	107.9	107.8	107.9
Alcoholic Beverages and Tobacco	137.6	139.4	140.4	140.9	141.4	141.8	142.2
Clothing and Footwear	105.9	106.1	106.4	106.5	106.7	106.8	107.1
Housing, Water, Electricity, Gas,							
and Other Fuels	104.0	104.3	104.3	104.3	104.7	105.1	106.1
Furnishing, Household Equipment, and							
Routine Household Maintenance	107.4	107.6	107.7	108.0	108.3	108.5	108.6
Health	110.4	110.9	111.3	111.5	111.8	112.0	112.6
Transport	108.8	108.8	110.4	110.7	111.1	111.7	112.8
Information and Communication	101.2	101.3	101.3	101.3	101.3	101.5	101.5
Recreation, Sport and Culture	104.1	104.3	104.4	104.5	104.6	104.7	104.8
Education Services	106.7	106.7	106.7	106.7	106.7	106.7	106.7
Restaurants and Accommodation Services	107.5	108.0	108.2	108.6	109.4	109.8	109.9
Financial Services	100.0	100.0	100.0	143.3	143.3	143.3	143.3
Personal Care, and Miscellaneous Goods							
and Services	106.2	106.5	106.7	106.8	106.9	107.1	107.4

Table 1e. Consumer Price Index by Commodity ... (Concluded)

Commodity Group	Aug	Sep	Oct	Nov	Dec	Ave
	g				200	
All Items	109.4	109.3	109.5	110.2	110.5	108.9
Food and Non-Alcoholic Beverages	109.2	108.7	108.2	109.3	110.1	109.0
Alcoholic Beverages and Tobacco	142.6	142.8	143.1	143.8	144.3	141.7
Clothing and Footwear	107.2	107.4	107.5	107.6	107.7	106.9
Housing, Water, Electricity, Gas,						
and Other Fuels	106.5	106.8	107.2	108.0	108.5	105.8
Furnishing, Household Equipment, and						
Routine Household Maintenance	108.7	109.1	109.1	109.3	109.4	108.5
Health	112.8	113.0	113.1	113.3	113.4	112.2
Transport	113.0	113.1	115.1	116.7	115.0	112.3
Information and Communication	101.6	101.7	101.7	101.7	101.8	101.5
Recreation, Sport and Culture	105.0	105.2	105.3	105.4	105.5	104.8
Education Services	106.6	107.2	107.3	107.3	107.3	106.9
Restaurants and Accommodation Services	110.2	110.3	110.3	110.3	110.4	109.4
Financial Services	143.3	143.3	143.3	143.3	143.3	132.5
Personal Care, and Miscellaneous Goods						
and Services	107.4	107.6	107.7	107.9	108.0	107.2

Item	Jan	Feb	Mar	Apr	Мау	Jun	Jul
Food	111.1	110.6	109.0	108.5	107.9	107.8	108.0
Cereals and cereal products	95.3	95.2	95.3	95.8	96.2	96.1	96.3
Meat and other parts of slaughtered							
land animals	119.5	123.0	123.1	123.5	123.1	122.7	122.4
Fish and other seafood	118.6	119.7	118.2	117.9	117.1	116.4	114.7
Milk, other dairy products and eggs	107.4	107.8	108.1	108.2	108.2	107.6	107.3
Oils and fats	105.8	106.7	108.4	108.7	109.2	109.7	110.2
Fruits and nuts	125.6	123.6	121.5	121.3	118.2	114.9	114.0
Vegetables, tubers, plantains, cooking							
bananas and pulses	147.6	131.1	114.5	105.6	101.5	103.8	110.4
Sugar, confectionery and desserts	102.8	102.8	102.9	103.1	103.3	103.6	103.8
Ready-made food and other							
food products n.e.c.	110.2	110.0	110.0	110.0	110.4	110.7	110.8

Table 1f. Consumer Price Index of Food Commodity Group by Item and by Month, Philippines: 2021 (2018=100) (in percent)

Table 1f. Consumer Price Index of Food Commodity ... (Concluded)

ltem	Aug	Sep	Oct	Nov	Dec	Ave
Food	109.4	108.7	108.3	109.4	110.3	109.1
Cereals and cereal products	96.7	96.6	96.7	96.7	96.7	96.1
Meat and other parts of slaughtered						
land animals	121.3	119.8	117.1	120.1	122.5	121.5
Fish and other seafood	116.6	115.5	115.5	118.0	120.4	117.4
Milk, other dairy products and eggs	107.4	107.2	107.3	107.5	107.8	107.7
Oils and fats	110.5	111.1	111.5	112.5	113.5	109.8
Fruits and nuts	114.9	115.9	115.3	115.5	116.0	118.1
Vegetables, tubers, plantains, cooking						
bananas and pulses	123.0	120.7	121.0	122.2	121.8	118.6
Sugar, confectionery and desserts	104.0	104.2	104.5	104.8	105.1	103.7
Ready-made food and other						
food products n.e.c.	111.2	111.2	111.3	111.5	111.6	110.7

(in percent)							
Commodity Group	Jan	Feb	Mar	Apr	Мау	Jun	Jul
All Items	3.7	4.2	4.1	4.1	4.1	3.7	3.7
Food and Non-Alcoholic Beverages	5.9	6.2	5.3	3.8	3.5	3.6	3.9
Alcoholic Beverages and Tobacco	11.3	11.7	11.3	11.2	11.1	10.4	9.3
Clothing and Footwear	1.6	1.7	1.7	1.7	1.9	1.8	1.9
Housing, Water, Electricity, Gas,							
and Other Fuels	0.2	0.6	0.7	1.3	1.7	2.0	2.7
Furnishing, Household Equipment, and							
Routine Household Maintenance	2.6	2.3	1.8	1.9	2.2	2.2	2.1
Health	3.8	3.9	4.0	4.0	4.1	3.9	3.9
Transport	6.6	8.2	11.9	16.6	16.2	10.3	7.1
Information and Communication	0.6	0.7	0.6	0.6	0.6	0.8	0.5
Recreation, Sport and Culture	-0.6	-0.7	-0.7	-0.6	-0.5	-0.5	-0.6
Education Services	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Restaurants and Accommodation Services	2.6	3.0	2.9	3.3	3.9	4.2	3.8
Financial Services	0.0	0.0	0.0	43.3	43.3	43.3	43.3
Personal Care, and Miscellaneous Goods							
and Services	2.4	2.4	2.4	2.4	2.4	2.4	2.3

Table 1g. Year-on-Year Changes of the Consumer Price Index by Commodity Group, Philippines: 2021 (2018=100)

Table 1g. Year-on-Year Changes of the Consumer ... (Concluded)

Commodity Group	Aug	Sep	Oct	Νον	Dec	Ave
All Items	4.4	4.2	4.0	3.7	3.1	3.9
Food and Non-Alcoholic Beverages	5.5	5.0	3.7	2.2	1.6	4.2
Alcoholic Beverages and Tobacco	9.4	9.5	8.7	6.9	6.2	9.7
Clothing and Footwear	1.8	1.9	1.9	2.0	1.9	1.8
Housing, Water, Electricity, Gas,						
and Other Fuels	3.4	3.8	4.3	4.8	5.1	2.5
Furnishing, Household Equipment, and						
Routine Household Maintenance	2.0	2.2	2.1	2.1	2.1	2.1
Health	3.8	3.8	3.7	3.6	3.2	3.8
Transport	7.0	5.6	7.6	9.8	6.6	9.3
Information and Communication	0.6	0.7	0.6	0.6	0.6	0.6
Recreation, Sport and Culture	1.1	1.6	1.6	1.6	1.6	0.3
Education Services	0.9	0.7	0.7	0.7	0.7	0.9
Restaurants and Accommodation Services	4.0	4.0	3.8	3.7	3.2	3.5
Financial Services	43.3	43.3	43.3	43.3	43.3	32.5
Personal Care, and Miscellaneous Goods						
and Services	2.2	2.2	2.1	2.2	2.1	2.3

Table 1h. Year-on-Year Changes of the Consumer Price Index of Food Commodity Group by Item and by Month, Philippines: 2021 (2018=100) (in percent)

Item	Jan	Feb	Mar	Apr	Мау	Jun	Jul
Food	6.4	6.8	5.6	4.1	3.7	3.9	4.2
Cereals and cereal products Meat and other parts of slaughtered	1.0	1.1	1.3	0.1	-0.1	-0.7	-0.7
land animals	12.2	16.4	16.9	17.7	18.1	15.8	13.5
Fish and other seafood	3.0	4.5	4.2	5.3	6.3	7.4	7.7
Milk, other dairy products and eggs	2.1	2.0	2.1	1.5	1.5	0.9	0.5
Oils and fats	3.4	3.9	5.1	5.1	5.3	5.5	5.6
Fruits and nuts Vegetables, tubers, plantains, cooking	13.2	10.5	5.6	-0.6	-2.4	-2.9	-3.5
bananas and pulses	26.3	17.7	7.5	-5.2	-9.3	-3.3	7.9
Sugar, confectionery and desserts Ready-made food and other	0.8	0.7	0.7	0.8	0.9	1.0	1.0
food products n.e.c.	3.0	2.6	2.2	0.9	0.8	0.8	0.6

Table 1h. Year-on-Year Changes of the Consumer ... (Concluded)

Item	Aug	Sep	Oct	Nov	Dec	Ave
Food	5.9	5.2	4.0	2.3	1.6	4.5
Cereals and cereal products Meat and other parts of slaughtered	-0.2	0.0	0.8	1.3	1.3	0.4
land animals	13.3	12.8	8.4	8.3	8.7	13.4
Fish and other seafood	10.2	8.8	7.4	6.5	6.2	6.4
Milk, other dairy products and eggs	0.5	0.3	0.4	0.5	0.7	1.1
Oils and fats	5.6	6.2	6.5	7.3	8.0	5.6
Fruits and nuts	-3.4	-4.0	-4.2	-4.1	-3.7	-0.1
Vegetables, tubers, plantains, cooking						
bananas and pulses	21.1	17.5	10.1	-7.9	-15.1	4.8
Sugar, confectionery and desserts	1.2	1.4	1.7	1.8	2.1	1.2
Ready-made food and other						
food products n.e.c.	0.9	0.8	0.8	1.0	1.3	1.3

Commodity	2018	2019	2020	2021
Crops				
Coconut Matured	172.9	222.6	210.4	187.6
Banana Lakatan, Green	113.5	111.5	126.3	131.3
Pineapple Hawaiian	164.9	154.1	191.3	203.8
Calamansi	110.2	118.6	129.5	116.0
Ampalaya	98.8	100.7	105.6	108.1
Cabbage	192.9	214.1	215.0	201.5
Garlic	40.2	37.4	37.6	39.8
Onion Red Creole	123.6	131.8	173.3	164.7
Tomato	138.9	145.5	139.1	148.5
Eggplant Long, Purple	113.3	114.9	119.7	113.6
Sweet Potato	125.2	114.4	115.4	118.8
White/Irish Potato	129.2	160.7	144.6	143.7

Table 2. Farm-Retail Price Gap of Selected Agricultural Commodities, Philippines, 2018-2021 (in percent)

(in percent)						
Commodity	2018	2019	2020	2021		
Crops						
Coconut Matured	36.6	31.0	32.2	34.8		
Banana Lakatan, Green	46.8	47.3	44.2	43.2		
Pineapple Hawaiian	37.8	39.4	34.3	32.9		
Calamansi	47.6	45.7	43.6	46.3		
Ampalaya	50.3	49.8	48.6	48.1		
Cabbage	34.1	31.8	31.7	33.2		
Garlic	71.3	72.8	72.7	71.5		
Onion Red Creole	44.7	43.1	36.6	37.8		
Tomato	41.9	40.7	41.8	40.2		
Eggplant Long, Purple	46.9	46.5	45.5	46.8		
Sweet Potato	44.4	46.6	46.4	45.7		

43.6

38.4

40.9

41.0

Table 3. Farmer's Share in Final Price of Selected Agricultural Commodities, Philippines, 2018-2021 (in percent)

Source: Philippine Statistics Authority

White/Irish Potato

MODULES OF THE AGRICULTURAL INDICATORS SYSTEM

- 1. Government Support in Agriculture Sector
- 2. Economic Growth: Agriculture
- 3. Output and Productivity
- 4. Agricultural Resources
- 5. Agricultural Exports and Imports
- 6. Food Availability and Sufficiency
- 7. Prices and Marketing of Agricultural Commodities
- 8. Employment and Wages in the Agriculture Sector

AGRICULTURAL INDICATORS SYSTEM PRICES AND MARKETING OF AGRICULTURAL COMMODITIES PHILIPPINE STATISTICS AUTHORITY

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