



# SPECIAL RELEASE

## Seasonally Adjusted Palay/Rice Production and Prices October to December 2022

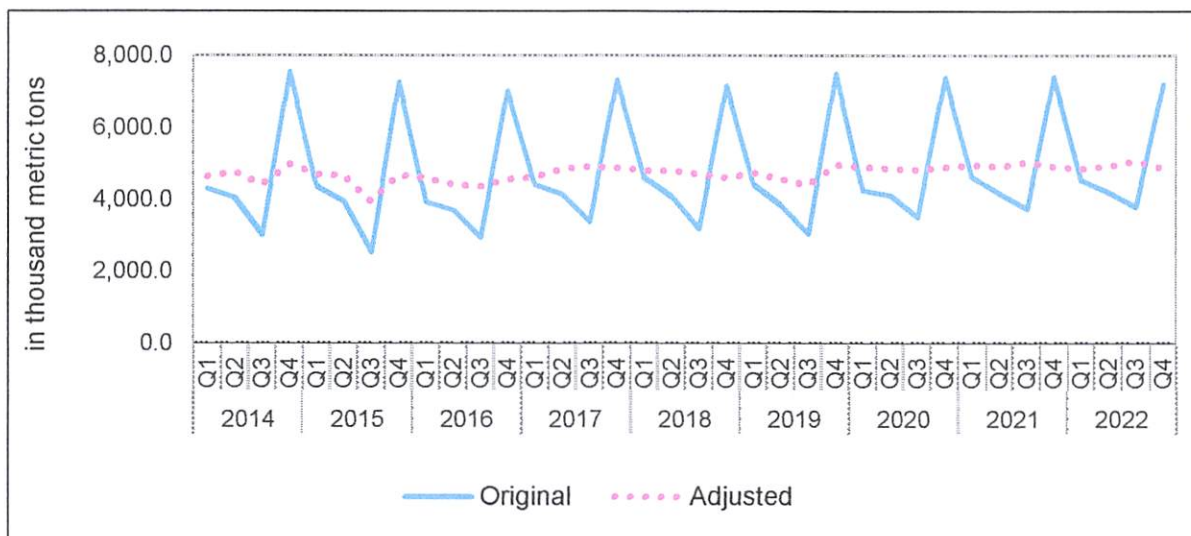
Date of Release: 02 February 2023  
Reference No. 2023-SSO-011

### PRODUCTION

The deseasonalized palay production in the fourth quarter of 2022 at 4.87 million metric tons was down by -4.1 percent compared with the third quarter 2022 output of 5.08 million metric tons.

Compared to the same period last year, this quarter's output when deseasonalized was lower by -1.0 percent or by 51.6 thousand metric tons. (Figure 1 and Table 1)

Figure 1. Quarterly Palay Production, Philippines: 2014 -2022



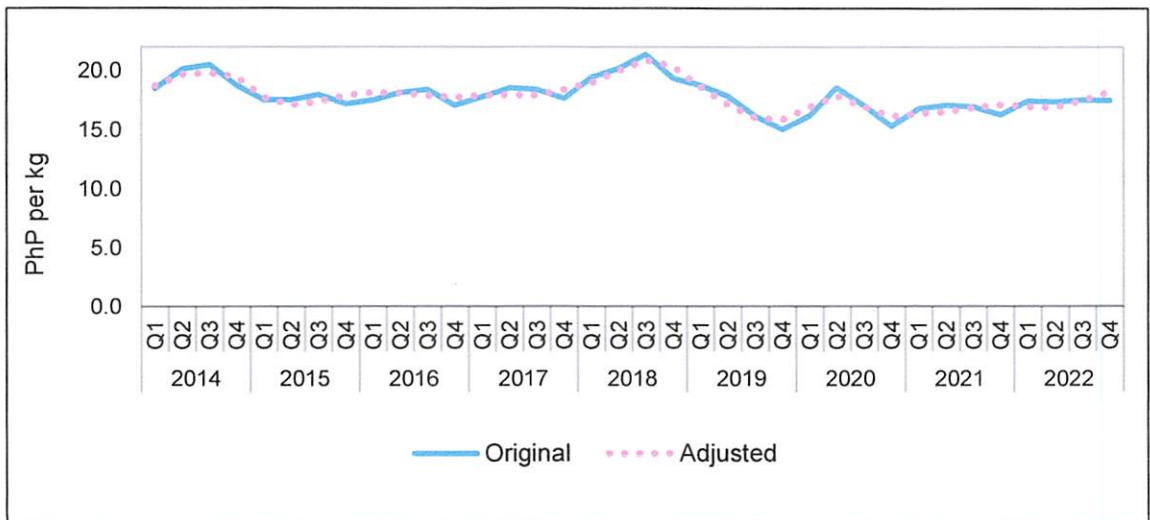
Source: Philippine Statistics Authority (PSA), Palay Production Survey (PPS)



## PRICE

In the fourth quarter of 2022, the seasonally adjusted farmgate price of palay was at PhP 18.18 per kilogram with an increase of 4.1 percent from the preceding quarter, and an increase of 6.4 percent from the same quarter of the previous year's level of PhP 17.09 per kilogram. (Figure 2 and Table 1)

Figure 2. Quarterly Average Farmgate Prices of Palay, Philippines: 2014-2022



Source: Philippine Statistics Authority (PSA), Farm Prices Survey (FPS)

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**Seasonally Adjusted Palay/Rice Production and Prices  
Philippines, Third Quarter 2022**

Table 1. Quarterly Production and Average Farmgate Price of Palay  
Philippines: 2014-2022

Year/ Quarter	PALAY PRODUCTION (in thousand M.T.)		Qtr-on-Qtr Change Adjusted	Yr-on-Yr Change Adjusted	PALAY FARMGATE PRICES (PhP per Kilo)		Qtr-on-Qtr Change Adjusted	Yr-on-Yr Change Adjusted	
	Original	Adjusted	(%)	(%)	Original	Adjusted	(%)	(%)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
2014	Q1	4,307.00	4,647.31	3.1	3.1	18.46	18.70	5.5	21.6
	Q2	4,073.00	4,784.19	2.9	5.4	20.13	19.65	5.1	22.6
	Q3	3,027.00	4,422.27	-7.6	-7.0	20.48	19.75	0.5	17.5
	Q4	7,561.00	4,987.44	12.8	10.6	18.76	19.49	-1.3	9.9
2015	Q1	4,368.00	4,710.84	-5.5	1.4	17.52	17.70	-9.2	-5.4
	Q2	3,956.00	4,661.91	-1.0	-2.6	17.54	17.10	-3.4	-13.0
	Q3	2,552.00	3,955.59	-15.2	-10.6	17.95	17.37	1.6	-12.0
	Q4	7,275.00	4,696.69	18.7	-5.8	17.18	17.89	3.0	-8.2
2016	Q1	3,932.00	4,593.48	-2.2	-2.5	17.49	18.14	1.4	2.5
	Q2	3,715.00	4,420.96	-3.8	-5.2	18.11	18.09	-0.3	5.8
	Q3	2,969.00	4,373.45	-1.1	10.6	18.39	17.88	-1.2	2.9
	Q4	7,012.00	4,565.67	4.4	-2.8	17.05	17.71	-1.0	-1.0
2017	Q1	4,419.00	4,626.04	1.3	0.7	17.76	17.92	1.2	-1.2
	Q2	4,150.00	4,860.17	5.1	9.9	18.53	17.91	-0.0	-1.0
	Q3	3,390.00	4,918.62	1.2	12.5	18.40	17.88	-0.1	0.0
	Q4	7,318.00	4,880.13	-0.8	6.9	17.62	18.36	2.7	3.7
2018	Q1	4,623.00	4,820.89	-1.2	4.2	19.41	18.95	3.2	5.8
	Q2	4,090.00	4,813.02	-0.2	-1.0	20.16	19.96	5.3	11.4
	Q3	3,196.00	4,700.84	-2.3	-4.4	21.34	20.86	4.5	16.6
	Q4	7,156.00	4,611.53	-1.9	-5.5	19.33	20.35	-2.4	10.8
2019	Q1	4,417.00	4,736.63	2.7	-1.7	18.76	18.60	-8.6	-1.8
	Q2	3,852.00	4,585.44	-3.2	-4.7	17.84	17.12	-8.0	-14.2
	Q3	3,051.00	4,396.92	-4.1	-6.5	16.16	15.99	-6.6	-23.3
	Q4	7,494.00	4,975.66	13.2	7.9	15.02	15.86	-0.8	-22.1
2020	Q1	4,261.00	4,897.20	-1.6	3.4	16.20	16.88	6.5	-9.2
	Q2	4,125.00	4,865.37	-0.7	6.1	18.54	17.83	5.6	4.2
	Q3	3,516.00	4,833.75	-0.6	9.9	17.03	16.93	-5.1	5.8
	Q4	7,392.00	4,893.96	1.2	-1.6	15.26	16.10	-4.9	1.5
2021	Q1	4,627.00	4,946.75	1.1	1.0	16.77	16.37	1.6	-3.0
	Q2	4,173.00	4,914.92	-0.6	1.0	17.07	16.51	0.8	-7.5
	Q3	3,753.00	5,051.29	2.8	4.5	16.92	16.87	2.2	-0.3
	Q4	7,408.00	4,922.32	-2.6	0.6	16.26	17.09	1.3	6.1
2022	Q1	4,541.00	4,867.14	-1.1	-1.6	17.43	16.95	-0.8	3.5
	Q2	4,202.00	4,941.61	1.5	0.5	17.35	16.87	-0.5	2.2
	Q3	3,790.00	5,077.24	2.7	0.5	17.50	17.47	3.6	3.5
	Q4	7,223.00	4,870.71	-4.1	-1.0	17.48	18.18	4.1	6.4

Note: r – revised

Sources: Philippine Statistics Authority (PSA), Palay Production Survey (PPS) and Farm Prices Survey (FPS)

## Technical Notes

The original series of palay production estimates are generated from the Quarterly Palay Production Survey, which has four survey rounds in a year, namely, January, April, July and October.

Starting the January to March 2022 release, the original series of palay prices are taken from the new series generated from the Farm Prices Survey. The data series used in the previous years' releases were from the discontinued survey of the Philippine Statistics Authority entitled Weekly Price Situationer of Selected Agricultural Commodities.

This brief quarterly report features the seasonally adjusted (deseasonalized) palay production and price data series starting from the first quarter of 2014 using X-13 Auto-Regressive Integrated Moving Average (ARIMA) through the statistical software JDemetra+. The effect of seasonality has been removed from the original data to show the trend of palay production and price without being hampered by seasonal movements.

The decomposition model chosen for the palay production was additive of ARIMA (1,0,0) (0,1,1) with no logarithmic transformation. Moreover, the decomposition model for the farmgate price of palay was multiplicative of ARIMA (2,0,0) (0,1,1) with logarithmic transformation.