



SPECIAL RELEASE

Seasonally Adjusted Palay/Rice Production and Prices January to March 2022

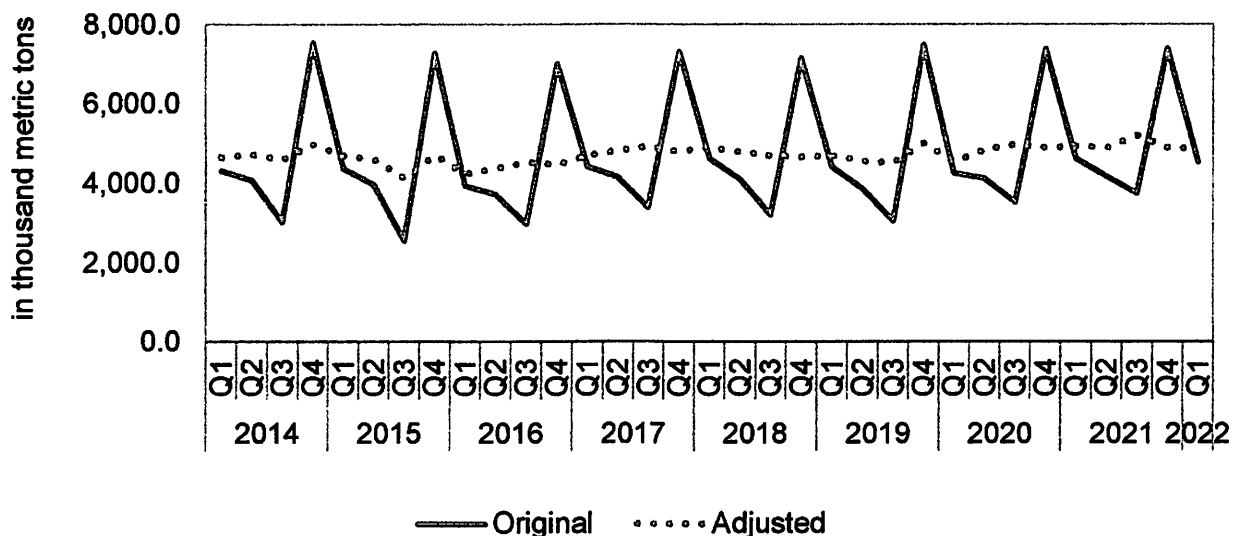
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PRODUCTION

In the first quarter of 2022, the seasonally adjusted palay production decreased by -0.7 percent quarter-on-quarter. Production was down to 4.87 million metric tons from 4.91 million metric tons in the fourth quarter of 2021. (Table 1)

Likewise, this quarter's year-on-year performance on palay production when deseasonalized, was down by -1.4 percent from its same quarter level of 4.94 million metric tons in the previous year. (Figure 1 and Table 1)

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



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



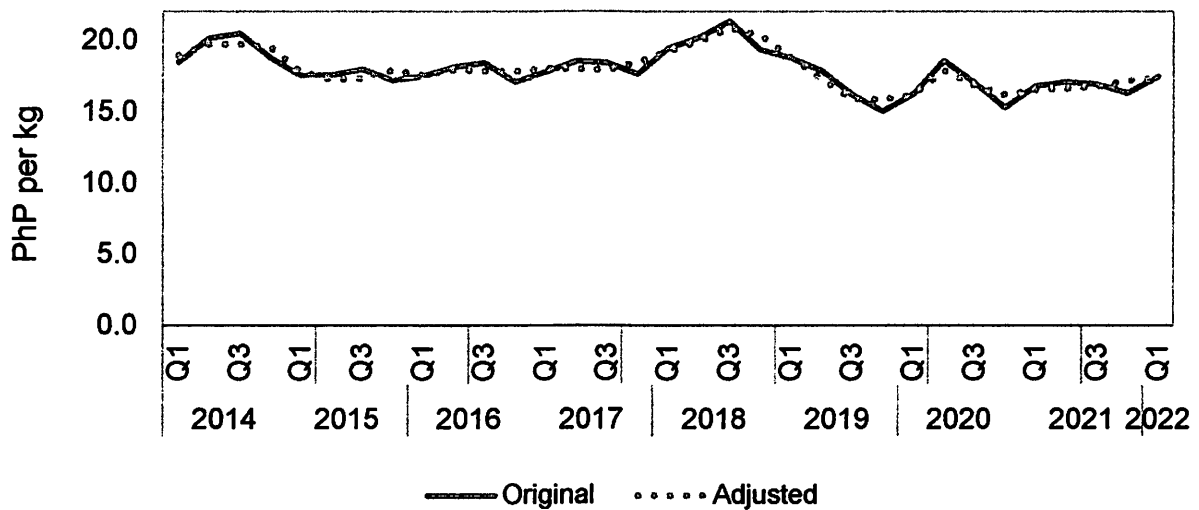
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PRICE

This quarter's deseasonalized average farmgate price of palay at PhP 17.31 per kilogram recorded an increase of 0.5 percent relative to its last quarter's average price of PhP 17.22 per kilogram. Similarly, the deseasonalized average farmgate price for the period January to March 2022 registered an increase of 5.0 percent from its previous year's same period average price quotation of PhP 16.49 per kilogram. (Figure 2 and Table 1)

Figure 2. Quarterly 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, First 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	4,658.78	3.8	3.0	18.46	18.92	6.5	20.7
	Q2	4,073.00	4,725.42	1.4	5.5	20.13	19.70	4.2	23.7
	Q3	3,027.00	4,606.07	-2.5	-7.0	20.48	19.70	-0.0	17.5
	Q4	7,561.00	4,988.71	8.3	11.2	18.76	19.50	-1.0	9.8
2015	Q1	4,368.00	4,706.86	-5.6	1.0	17.52	17.78	-8.8	-6.0
	Q2	3,956.00	4,605.96	-2.1	-2.5	17.54	17.26	-2.9	-12.4
	Q3	2,552.00	4,131.41	-10.3	-10.3	17.95	17.33	0.4	-12.0
	Q4	7,275.00	4,720.26	14.3	-5.4	17.18	17.88	3.2	-8.3
2016	Q1	3,932.00	4,250.07	-10.0	-9.7	17.49	17.54	-1.9	-1.4
	Q2	3,715.00	4,372.62	2.9	-5.1	18.11	17.93	2.2	3.9
	Q3	2,969.00	4,539.15	3.8	9.9	18.39	17.83	-0.5	2.9
	Q4	7,012.00	4,479.27	-1.3	-5.1	17.05	17.81	-0.2	-0.4
2017	Q1	4,419.00	4,717.21	5.3	11.0	17.76	18.03	1.3	2.8
	Q2	4,150.00	4,822.88	2.2	10.3	18.53	17.99	-0.2	0.3
	Q3	3,390.00	4,936.06	2.3	8.7	18.40	17.92	-0.4	0.5
	Q4	7,318.00	4,810.56	-2.5	7.4	17.62	18.47	3.1	3.7
2018	Q1	4,623.00	4,905.34	2.0	4.0	19.41	19.22	4.1	6.6
	Q2	4,090.00	4,789.01	-2.4	-0.7	20.16	19.92	3.7	10.7
	Q3	3,196.00	4,699.37	-1.9	-4.8	21.34	20.86	4.7	16.4
	Q4	7,156.00	4,674.74	-0.5	-2.8	19.33	20.35	-2.4	10.2
2019	Q1	4,417.00	4,696.17	0.5	-4.3	18.76	18.81	-7.6	-2.1
	Q2	3,852.00	4,566.32	-2.8	-4.6	17.84	17.25	-8.3	-13.4
	Q3	3,051.00	4,527.93	-0.8	-3.6	16.16	15.88	-7.9	-23.8
	Q4	7,494.00	5,015.85	10.8	7.3	15.02	15.86	-0.2	-22.0
2020	Q1	4,261.00	4,550.55	-9.3	-3.1	16.20	16.16	1.9	-14.1
	Q2	4,125.00	4,847.89	6.5	6.2	18.54	17.87	10.6	3.6
	Q3	3,516.00	4,979.89	2.7	10.0	17.03	16.82	-5.9	5.9
	Q4	7,392.00	4,900.04	-1.6	-2.3	15.26	16.15	-4.0	1.8
2021	Q1	4,627.00	4,940.32	0.8	8.6	16.77	16.49	2.1	2.0
	Q2	4,173.00	4,896.24	-0.9	1.0	17.07	16.60	0.6	-7.1
	Q3	3,753.00	5,206.07	6.3	4.5	16.92	16.78	1.1	-0.2
	Q4	7,408.00	4,906.24	-5.8	0.1	16.26	17.22	2.6	6.6
2022	Q1	4,541.00	4,873.26	-0.7	-1.4	17.43	17.31	0.5	5.0

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 (PPS), which has four survey rounds in a year, namely, January, April, July, and October.

Starting this January to March 2022 release, the original series of palay price are taken from the new series generated from the Farmgate Prices Survey (FPS). The data series used in the previous releases were from the discontinued survey of the Philippine Statistics Authority entitled Weekly Price Situationer of Selected Agricultural Commodities. Moreover, the wholesale and retail prices for rice, which are featured in the previous releases, will not be included starting in this release.

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 (0,1,1) (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.