## Philippine fertilizer price outlook: A reality for farmers and fishers

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#### **Abstract**

The Philippines, as a net importer of fertilizer, is vulnerable to the rising fertilizer prices due to Covid 19 pandemic causing fertilizer shortages around the globe, higher input costs and fuel prices, disruption of production and trade, including geopolitical disputes (Russia and Ukraine). The study was aimed to analyze fertilizer import prices and dealer prices to provide proposals for importation, marketing, pricing, and other policy recommendations.

Results reveal that import prices vary from country to country and started to increase in early 2021. From February to April 2022, the lowest average import price of Prilled Urea is from Uzbekistan (\$648.00/MT), Granular Urea from China (\$602.00/MT), Ammosul from Japan (\$296.58/MT), Complete fertilizer from Korea (\$608/MT), Ammophos from Korea (\$490/MT), MOP from Jordan (\$570.37/MT), and DAP from China (\$900/MT), thus automatically affecting regional dealers prices due to archipelagic situation that entails additional logistical cost. Prilled Urea had the highest price in Region VI (Php 2,814.83) and the lowest in Region XIII (Php 2,536.11); Granular Urea was high in Region V (Php 2,826.33) and low in Region VII (Php 2,430.00); Ammosul was high in CAR (Php 1,533.65) and low in Region XII (Php 1,302.31); Complete fertilizer was high in CAR (Php 2,220.37) and low in Region XII (Php 1,793.50); Ammophos was high in Region V (Php 1,948.55) and low in Region XII (Php 1,583.54); MOP was highest in Region IX (Php 2,054.51) and lowest in Region II (Php 1,749.20); and DAP was highest in Region VII (Php 2,944.30) and lowest in Region VIII (Php 1,883.33). This indicates that average prices of different fertilizer grades are generally lower in nearby seaports (i.e. Regions III, XI, XII, and XIII).

Likewise, variation in dealer's prices is influenced more by the company, brand and logistical cost hence, the incorporation of Suggested Retail Price (SRP) and Maximum Retail Price (MRP) should be calculated based on the source of origin and be institutionalized by the Department of Agriculture (DA) and Department of Trade and Industry (DTI) centered on the location where the fertilizers are locally sold, and the government should open up bilateral agreement with countries (G2G) producing fertilizers for lesser acquisition cost.

# Introduction

In recent months we witnessed a sharp increase in fertilizer prices worldwide. International prices of urea rose from \$216/MT in June 2020 to \$393.25/MT in June 2021, while prices of diammonium phosphate (DAP) soared from \$263/MT in June 2020 to \$604.75/MT during the same period of 2021 (Baffes and Koh, 2021). Global fertilizer prices increased during 2021 with limited supply brought about by the disruption of production and transportation due to the COVID-19 pandemic, higher input costs, hike in fuel prices, trade disputes and geopolitics, and the recent Russia invading Ukraine (Roldan et. al. 2021).

Countries (i.e., Australia, Brazil, India) also increased their fertilizer demand to stimulate local agricultural production, China even banned export of their fertilizer products (Mula, 2022). The situation was further aggravated by the conflict in Ukraine and the sanctions imposed by Western countries on Russia and Belarus.

Import prices remained volatile but are generally increasing, regardless of country of origin. The trend of average local dealers' prices per month from 2019 to 2021 (Month 1 to 36), covering the pre-pandemic period to the height of global lockdowns to the gradual easing of quarantine restrictions is shown in Figure 1. Fertilizer prices in the Philippines started to increase during the mid-year (Month 19) of 2021 and further surged towards the end of the year (Month 24). While fertilizer prices are volatile, a relatively steady trend is observed until mid of 2021 (Month 1 to 18). During the stringent lockdown in the country in 2020 (Month 15), local prices of fertilizers remained close to the 2019 prices (Month 1 to 12); the price of urea even declined. Around May-June 2021 (Months 29 & 30), prices for all fertilizer grades started to increase and further surged towards December (Month 36).

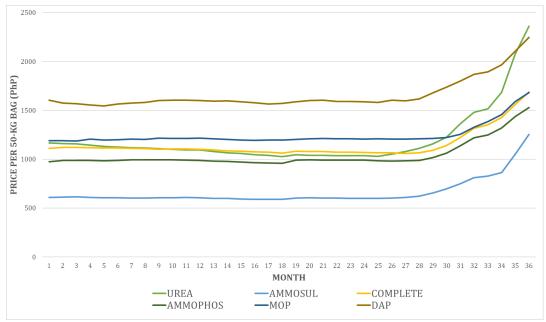


Figure 1. Trend of average monthly dealer's prices of the six major fertilizer grades, 2019-2021.

The price of urea during November 2020 (Month 23) recorded an average of Php 1,037.83 per 50-kg bag as compared to the November 2021 (Month 35) record of Php 2,082.14, indicating a hundred percent increase in a year. This was further increased in the following month (Month 36), reporting a 128% increase in price compared to December 2020 price (Month 24).

Ammonium sulfate price also increased by 109% in December 2021 (Month 36), compared to the same period of the previous year (Month 24). Ammonium phosphate and complete fertilizer posted more than 50% increase in price, while muriate of potash and diammonium phosphate prices have increased at around 40%.

Ultimately, this could initiate changes in cropping patterns and affect the country's overall crop production. Farmers would likewise lessen fertilizer application, or decline their area planted. Challenges such as diminishing farm size, population growth, and climate change also adversely affect productivity.

The Philippines, being a net importer of fertilizer, is vulnerable to the shifts in the global market. Different chemical fertilizer grades are imported into the country from various countries. The primary sources of our fertilizer imports from 2018 to 2021 are China (40.66%), Indonesia (16.70%), Malaysia (12.20%), Qatar (7.37%), Canada (6.18%), and Japan (5.88%), according to the FPA 2021 data. Fertilizer imports from various countries also come with varying import prices.

However, the fertilizer peg at dealer prices is computed at the average notwithstanding where the origin of fertilizer comes from. Local fertilizer prices are only monitored at the dealer level and there is no data on fertilizer prices at the distributor level. Hence, comparison of fertilizer dealer prices per country of origin should be analyzed to determine if the trend of import prices is reflected in the local market. This study tends to analyze the import prices and dealer prices of the six major fertilizer grades from the month of February to April 2022, also provide proposals for fertilizer importation, a system of retailing monitoring, and other policy recommendations.

# Methodology

The fertilizer importation data by country of origin and regional fertilizer dealer prices were analyzed to provide decision-making and policy direction of the Department of Agriculture (DA).

Data on regional dealer prices of the seven major fertilizer grades: prilled and granular urea (46-0-0), ammonium sulfate (21-0-0), complete fertilizer (14-14-14), ammonium phosphate (16-20-0), muriate of potash (0-0-60), and diammonium phosphate (18-46-0), and fertilizer importation data are obtained through the Fertilizer and Pesticide Authority (FPA) database on weekly bases. The data on fertilizer importation are taken from the VAT exemption invoices issued to the importers by the FPA.

These data are analyzed to investigate price trends, compare fertilizer import prices per country of origin, and compare dealer prices per region, country of origin, and brand.

Since local fertilizer price is only monitored at the dealer's level, there is no data on the fertilizer prices at the distributor or wholesale level. A profit margin matrix was used to approximate fertilizer prices along the supply chain (Appendix 1 – Computation of fertilizer price matrix at various cost levels). The estimations in this matrix came from the fertilizer industry stakeholders.

Import prices are in US\$ per unit MT (CFR values) of fertilizer. Payments for duties and other port costs are added to the import price to give the landed cost upon disport. These costs are estimated to be Php 90.00 per 50-kg bag of fertilizer. Importers then add imputed costs for trucking, warehousing, labor, tax (2.5%), and profit per bag (8%). The distributor's price to the dealer adds to the price by following the same margin estimates as the importers. Lastly, the dealer's price covers an additional cost for only trucking and labor, plus the tax (2.5%) and profit per bag (8%) (Appendix 1 and Figure 2).

Figure 2 presents the imputed costs of fertilizer prices along the supply chain. From the import price, costs are added to the fertilizer price in every market channel (Figure 3) and eventually come up with the dealer's price – the retail price of fertilizer availed by the farmer end-users.



Figure 2. Diagram showing the imputed costs of fertilizer price along the supply chain

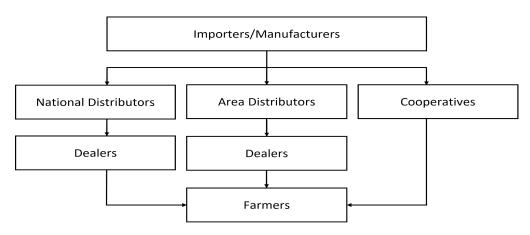


Figure 3. Diagram of the fertilizer supply chain showing the handlers/stakeholders in the market.

Import prices will be compared depending on the country of origin to determine the source country with the lowest prices of fertilizer imports. On the other hand, comparison of dealer prices is to be assessed by country of origin, region of sale, and brand.

### **Results and Discussions**

# Price status of 7 major traditional fertilizer (February-April 2022)

Prices of fertilizer had been increasing since mid-2021 and soared especially at the end of the year. From February to April of 2022, import prices remained volatile and in upward trend regardless of country of origin. On the local retail level, average prices are observed to be increasing over the months (Figure 4). However, the movement of prices from the retail or dealer's level does not directly reflect the movement of import prices (Appendices 2-8).

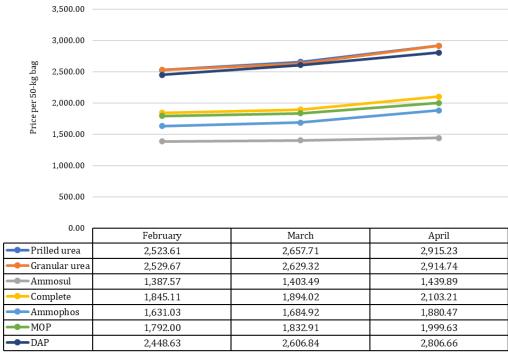


Figure 4. Trend of average dealer prices of the six major fertilizer grades, February to April 2022.

### The effect of Origin and Branding

Assessing the fertilizer prices per brand at the regional level can be inferred the differences in prices (Appendices 9-20). The same fertilizer grade with the same brand could have varying prices in the same month, depending on the country of origin and the region of sale.

For example, in Region VII, complete fertilizer Atlas from China has a dealer price of Php 1,946.28 in April. The same brand sold in the same region but is from Korea has a dealer price of Php 1,960.63. In Region XI, the same Atlas complete fertilizer from China posted Php 1,820.00 per bag. One brand of fertilizer could also appear to be more expensive than other brands but could still be cheaper at some point due to varying prices depending on its country of origin and region. In April prices of MOP from Canada in Region IV, brand Amigo (Php 2,026.34) is more expensive than Atlas (Php 1,912.50). However, in Region XI, Amigo (Php 1,917.50) is cheaper than Atlas (Php 1,966.82).

The country of origin depends on the import price of the fertilizer, while region of sale could be attributed to the far proximity from ports, distance from ports and large distributors, and the number of handlers.

## Import and Regional Dealer Prices

#### Prilled Urea

# **Import Price**

The highest volume of prilled urea imported was from Indonesia with 22,445.03 MT or 42.82%, followed by Qatar (21,999 MT or 41.98%) (Table 1). Meanwhile, import prices from Uzbekistan are the lowest at \$648.00 per MT, followed by Indonesia (\$690.71/MT). Prilled urea from Vietnam has the most expensive price per metric ton at \$942.50.

Table 1. Import price and volume of prilled urea, February to April 2022.

Country	Total Volume (MT)	Volume (%)	Ave. Price per MT (\$)
Indonesia	22,445.03	42.83	690.71
Qatar	21,999.99	41.98	854.85
Uzbekistan	1,584.00	3.02	648.00
Vietnam	6,373.95	12.16	942.50
Total	52,402.98	100.00	

#### **Dealers Price**

On the regional average dealer prices of prilled urea, the highest price in February was noted in Region V (Php 2,673.523), Region VI in March and April at Php 2906.15 and Php 3,118.19, respectively. While the lowest prices were recorded in Region I (February - Php 2,380.00) and REGION XIII (March - Php 2,474.31 and April - Php 2,646.24) (Table 2).

Table 2. Regional dealer prices of prilled urea, February to April 2022.

Region	Monitored Dealer 's Price (Php/50-kg bag)		
	Feb-22	Mar-22	Apr-22
CAR	2,546.53	2,771.28	3,037.23
Region I	2,380.00	2,694.38	3,066.00
Region II	2,532.79	2,659.47	3,037.18

Region III	2,522.31	2,640.27	3,060.78
Region IV	2,670.71	2,683.32	2,823.25
Region V	2,673.53	2,752.71	2,937.31
Region VI	2,420.17	2,906.15	3,118.19
Region VII	2,585.59	2,809.63	2,999.76
Region VIII	2,611.03	2,641.84	2,765.77
Region IX	2,545.46	2,556.91	2,757.14
Region X	2,522.93	2,615.52	2,898.67
Region XI	2,435.34	2,520.11	2,842.45
Region XII	2,396.31	2,482.06	2,823.31
Region XIII	2,487.79	2,474.31	2,646.24
BARMM	-	-	
Average Price	2,523.61	2,657.71	2,915.23

### **Granular Urea**

# **Import Price**

Granular urea imports' highest volume is Indonesia, with 39,104.60 MT or 42.92%, followed by Qatar with 22,000.00 MT or 24.15%. Regarding import prices, the highest price is Qatar with an average of 882.43/MT, while the lowest is from China at 602.00/MT (Table 3).

Table 3. Import price and volume of granular urea, February to April 2022.

Country	Total Volume (MT)	Volume (%)	Ave. Price per MT (\$)
China	18210	19.99	602
Indonesia	39,104.60	42.92	766.18
Malaysia	10,989.25	12.06	689.45
Qatar	22,000.00	24.15	882.43
Vietnam	800.00	0.88	832.00
Total	91,103.85	100.00	

#### **Dealers Price**

The highest average dealer prices of granular urea were observed in Region IV (February - Php 2,723.00), in Region XIII (March – Php 2,847.29), and in CAR (April – Php 3,100.39). Region XI posted the lowest dealer price in January with Php 2,394.33/bag, while in March it was Region VII (Php 2,430.00/bag). Region XIII had the lowest in April at Php 2,728.01/bag (Table 4).

Table 4. Regional dealer prices of granular urea, February to April 2022.

Region	Monitored Dealer 's Price (Php/50-kg bag)		
Region	Feb-22	Mar-22	Apr-22
CAR	2,502.56	2,646.90	3,100.39
Region I	2,483.93	2,673.21	3,014.85
Region II	2,498.58	2,609.69	3,033.85
Region III	2,448.77	2,511.06	2,957.98
Region IV	2,723.00	2,744.70	2,890.33
Region V	2,718.51	2,779.91	2,980.58
Region VI	2,564.22	2,606.12	2,775.74
Region VII	2,430.00	2,430.00	-

Region VIII	2,583.19	2,847.29	2,935.00
Region IX	-	ı	ı
Region X	-	ı	ı
Region XI	2,394.33	2,530.31	2,840.71
Region XII	2,432.06	2,500.38	2,804.69
Region XIII	2,494.70	2,495.98	2,728.01
BARMM	-	ı	ı
Average Price	2,529.67	2,629.32	2,914.74

## Ammonium sulfate (21-0-0)

## **Import Price**

Ammonium sulfate or ammosul has been sourced from only three countries over the past months, namely: China, Japan, and Taiwan. The highest volume of imports from February to April were China (37.36% or 1,067.27 MT). Both imports from Japan and Taiwan had substantial amounts of volume, each with around 31% of the total imported volume (Table 5).

In terms of price, ammosul from Japan are priced the lowest at \$296.00/MT. Price of imports from Taiwan are slightly expensive at \$300.00/MT, while the most expensive are from China (\$355.76/MT).

Table 5. Import price and volume of ammonium sulfate, February to April 2022.

Country	Total Volume (MT)	Volume (%)	Ave. Price per MT (\$)
China	1,067.27	37.36	355.76
Japan	889.75	31.14	296.58
Taiwan	900.00	31.50	300.00
Total	2,857.02	100.00	

### **Dealers Price**

On the local side, ammosul average dealer prices are averaged at Php 1,387.57/bag in February, Php 1,403.49/bag in March, and Php 1,439.89/bag in April. The highest dealer prices were recorded in Region V (February - Php 1,506.47), and CAR (March - Php 1,526.24 and April - Php 1,591.87) (Table 6). Lowest prices, on the other hand, were in Regions VIII and XI. In February, ammosul price in Region VIII averaged at Php 1,300.08/bag, while in March, Region XI average dealer price was only at PHP 1,292.32/bag and Php 1,302.22 in April.

Table 6. Regional dealer prices of ammonium sulfate, February to April 2022.

Region	Monitored Dealer 's Price (Php/50-kg bag)		
	Feb-22	Mar-22	Apr-22
CAR	1,482.84	1,526.24	1,591.87
Region I	1,373.39	1,361.94	1,370.67
Region II	1,454.73	1,455.68	1,534.04
Region III	1,394.14	1,376.21	1,398.64
Region IV	1,473.01	1,465.40	1,498.33
Region V	1,506.47	1,504.67	1,509.40
Region VI	1,310.33	1,325.96	1,388.01
Region VII	1,347.91	1,453.54	1,582.02
Region VIII	1,300.08	1,447.24	1,516.70

Region IX	1,400.75	1,394.62	1,423.45
Region X	1,390.83	1,390.82	1,378.39
Region XI	1,312.40	1,292.32	1,302.22
Region XII	1,319.69	1,303.67	1,307.38
Region XIII	1,359.40	1,350.50	1,357.27
BARMM	-	-	-
Average Price	1,387.57	1,403.49	1,439.89

# Complete fertilizer (14-14-14)

## **Import Price**

Majority of complete fertilizer imports are from China (9,640.00 MT or 75.79%). The other is from Korea at 24.21% or 3,080.00 MT. Import price per MT is cheaper in Korea (\$608.00/MT) than in China (\$632.75/MT) (Table 7).

Table 7. Import price and volume of complete fertilizer, February to April 2022.

Country	Total Volume (MT)	Volume (%)	Ave. Price per MT (\$)
China	9,640.00	75.79	632.75
Korea	3,080.00	24.21	608.00
Total	12,720.00	100.00	

#### **Dealers Price**

National average prices of complete fertilizer increased within the three months, reaching Php 1,854.11 in February, Php 1,894.02 in March, and Php 2,103.21 in April (Table 8). However, complete fertilizer has been most expensive in Region V in February and March (Php 1,993.56 and Php 2,037.44, respectively). In the same months, the lowest prices of said fertilizer were recorded in Region XII (Php 1,715.38/bag in February and Php 1,740.50/bag in March). In April, the highest price was recorded in CAR (Php 2,706.80/bag), while Region XIII had the lowest at Php 1,896.06/bag.

Table 8. Regional dealer prices of complete fertilizer, February to April 2022.

	Monitored Dealer 's Price (Php/50-kg bag)		
Region			
	Feb-22	<i>Mar-22</i>	Apr-22
CAR	1,918.78	2,035.52	2,706.80
Region I	1,868.54	1,897.85	2,017.89
Region II	1,887.33	1,940.62	2,473.14
Region III	1,943.02	1,998.01	2,273.78
Region IV	1,983.44	2,008.36	2,123.93
Region V	1,993.56	2,037.44	2,206.26
Region VI	1,785.86	1,838.09	1,971.72
Region VII	1,792.04	1,890.39	2,011.59
Region VIII	1,813.84	1,921.57	2,023.06
Region IX	1,835.97	1,831.78	1,962.79
Region X	1,773.93	1,813.37	1,973.60
Region XI	1,731.15	1,758.64	1,906.68
Region XII	1,715.38	1,740.50	1,924.62
Region XIII	1,788.72	1,804.07	1,869.06
BARMM	-	-	-

Average Price	1,845.11	1,894.02	2,103.21

# Ammonium phosphate

## **Import Price**

Ammonium phosphate or ammophos are imported from China (9,516 MT or 74.25%) and Korea (3,300.00 MT or 25.27%) during the months of February to April totaling to 12,816.00 MT (Table 9). However, the price in Korea (\$490.00/MT) is much lower than China (\$612/MT).

Table 9. Import price and volume of ammonium phosphate, February to April 2022.

Country	Total Volume (MT)	Volume (%)	Ave. Price per MT (\$)
China	9,516.00	74.25	612.00
Korea	3,300.00	25.75	490.00
Total	12,816.00	100.00	

#### **Dealers Price**

Local dealer prices of national ammophos are averaged at Php 1,631.03 (February), Php 1,684.92 (March), and Php 1,880.47 (April). The lowest prices were observed in Region XII (February - Php 1,464.19 and March - Php 1,496.17), and in REGION XIII in April at Php 1,644.18. On the other hand, Region V (from Php 1,879.05 in February to Php 1,913.04 in March) and CAR (Php 2,363.50 in Apri) posted the highest dealer prices of ammophos (Table 10).

Table 10. Regional dealer prices of ammonium phosphate, February to April 2022.

Region	Monitored Dealer 's Price (Php/50-kg bag)											
	Feb-22	Mar-22	Apr-22									
CAR	1,667.11	1,769.52	2,363.50									
Region I	1,715.44	1,755.94	1,818.40									
Region II	1,598.58	1,713.22	2,336.62									
Region III	1,641.27	1,746.49	1,779.68									
Region IV	1,840.94	1,867.46	1,908.04									
Region V	1,879.05	1,913.04	2,053.57									
Region VI	1,523.33	1,572.79	1,710.02									
Region VII	1,605.71	1,693.36	1,833.39									
Region VIII	1,509.20	1,628.42	1,710.12									
Region IX	1,703.79	1,682.47	1,840.69									
Region X	1,600.48	1,640.09	1,840.64									
Region XI	1,535.46	1,547.34	1,697.51									
Region XII	1,464.19	1,496.17	1,790.25									
Region XIII	1,549.82	1,562.56	1,644.18									
BARMM	-	-										
Average Price	1,631.03	1,684.92	1,880.47									

### Muriate of potash

### **Import Price**

During February to April, muriate of potash (MOP) was imported from six countries, namely, Belarus, Canada, Jordan, Laos, Russia, and Uzbekistan (Table 11). The highest volume of imports came from Canada at 19,001.00 MT (55.76%) while the least is from Russia (1,000 MT) and Belarus (500 MT). Moreover, prices of MOP imports are the lowest in Jordan (\$570.37/MT), followed by Canada (\$583.33/MT).

Table 11. Import price and volume of muriate of potash, February to April 2022.

Country	Total Volume (MT)	Volume (%)	Ave. Price per MT (\$)
Belarus	500.00	1.47	650.00
Canada	19,001.00	55.76	583.83
Jordan	6,433.72	18.88	570.37
Laos	4,308.10	12.64	703.50
Russia	1,000.00	2.93	695.00
Uzbekistan	2,835.50	8.32	602.33
Total	34,078.32	100.00	

### **Dealers Price**

Regarding national average dealer prices, MOP posted an average price of Php 1,792.00/bag (February), Php 1,832.91 (March), and Php 1,999.63 in April (Table 12).

The regional average dealers lowest price of MOP were observed in Region II (February - Php 1,634.54 and March - Php 1,699.89), and in Region VIII (April - Php 1,853.63). In contrast, the highest dealer prices were noted in Region IX for the three-month period at Php 1,944.27 (February), Php 2,040.48 (March), and Php 2,178.78 in April.

Table 12. Regional dealer prices of muriate of potash, February to April 2022.

	Monitored Dealer 's Price											
Region	(1	Php/50-kg bag)										
	Feb-22	<i>Mar-22</i>	Apr-22									
CAR	1,747.72	1,847.04	1,979.44									
Region I	1,811.95	1,837.66	1,870.16									
Region II	1,634.54	1,699.89	1,913.18									
Region III	1,769.35	1,813.62	1,934.81									
Region IV	1,928.29	1,937.56	1,998.22									
Region V	1,781.17	1,871.10	1,995.21									
Region VI	1,732.87	1,764.89	1,942.82									
Region VII	1,806.67	1,838.38	2,037.60									
Region VIII	1,745.79	1,793.25	1,853.63									
Region IX	1,944.27	2,040.48	2,178.78									
Region X	1,750.48	1,807.05	2,087.11									
Region XI	1,797.46	1,798.32	2,123.10									
Region XII	1,762.56	1,780.17	2,091.44									
Region XIII	1,874.92	1,831.31	1,989.27									
BARMM	-	-	-									
Average Price	1,792.00	1,832.91	1,999.63									

### **Diammonium Phosphate**

### **Import Price**

Imports of diammonium phosphate (DAP) were sourced from China (68.60% or 14,420 MT) and Vietnam (6,600 MT) from February to April (Table 13). Import prices from the two countries are lowest in China (\$900/MT), while Vietnam is at \$990/MT.

Table 13. Import price and volume of diammonium phosphate, February to April 2022.

Country	Total Volume (MT)	Volume (%)	Ave. Price per MT (\$)
China	14,420.00	68.60	900.00
Vietnam	6,600.00	31.40	990.00
Total	21,020.00	100.00	

#### **Dealers Price**

The national average dealer prices from February to April covers regions IV, VI, VII, VIII, IX, X, XI, XII, and XIII due to non-availability of this fertilizers in other regions (Table 14).

The lowest average dealer prices of DAP were obtained from Region VIII (February - Php 1,883.33); and in Region XIII (March - Php 2,405.81 and April - Php 2,430.00). Highest dealer prices were observed in Region VII (February - Php 2,788.30 and March - Php 2,980.74); and Region XI (April - Php 3,078.26).

Table 14. Regional dealer prices of diammonium phosphate, February to April 2022.

Tuble 11. Regional dealer	1	itored Dealer 's Pi	
REGION		(Php/50-kg bag)	
	Feb-22	Mar-22	Apr-22
CAR	-	-	ı
Region I	-	-	-
Region II	-	-	-
Region III	-	-	ı
Region IV	2,408.75	2,600.83	2,906.25
Region V	-	-	-
Region VI	2,406.50	2,470.87	2,649.17
Region VII	2,788.30	2,980.74	3,063.85
Region VIII	1,883.33	-	1
Region IX	2,520.62	2,578.61	2,656.25
Region X	2,622.55	2,665.16	2,832.12
Region XI	2,498.31	2,571.11	3,078.26
Region XII	2,539.19	2,581.58	2,837.38
Region XIII	2,370.14	2,405.81	2,430.00
BARMM	-	-	
Average Price	2,448.63	2,606.84	2,806.66

### **Conclusions**

This data shows that prices of each brand is influenced more by the fertilizer's country of origin and region. The same fertilizer grade with the same brand could have varying prices in the same month, depending on the country of origin and the region of sale. Variation in dealer's price due

to branding is also affected by other factors, such as retail price history, competition, and product cost (Li and Volpe, 2013). Farmers also have a preference for fertilizer brands. According to a study by Briones (2021), the more vital driver of monthly price is the international market rather than local variations in demand.

### **Import Price**

While there are various sources of different fertilizers, cheaper fertilizers can be sourced from certain countries. Lowest prices of prilled urea comes from Uzbekistan (\$648.00/MT), granular urea from China (\$602.00/MT), ammosul from Japan (\$296.58/MT), complete fertilizer from Korea (\$608/MT), ammophos from Korea (\$490/MT), MOP from Jordan (\$570.37/MT), and DAP from China (\$900/MT).

### **Dealers Price**

**Prilled Urea.** On the regional dealer prices of prilled urea, the highest price in February was recorded in Region V (Php 2,673.523), Region VI in March (Php 2906.15), and April (Php 3,118.19). While the lowest prices were recorded in Region I in February (Php 2,380.00) and in Region XIII in March (Php 2,474.31) and April (Php 2,646.24).

Within the 3-month period, the highest average dealer price of prilled urea from Region VI at Php 2,814.83, while the lowest is from Region XIII at Php 2,536.11.

*Granular Urea.* The highest dealer prices of granular urea were observed in Region IV in February (Php 2,723.00), in Region XIII in March (Php 2,847.29), and in CAR in April (Php 3,100.39). Region XI posted the lowest dealer price in January with Php 2,394.33 per bag, while in March it was Region VII with Php 2,430.00 per bag. Region XIII had the lowest dealer price in April at Php 2,728.01 per bag.

Granular urea average dealer prices in February to April was the highest in Region V with Php 2,826.33 and the lowest in Region VII with Php 2,430.00 (Table 15).

**Ammonium Sulfate.** Meanwhile, ammosul dealer prices averaged at Php 1,387.57/bag in January, Php 1,403.49/bag in March, and Php 1,439.89/bag in April. The highest dealer prices of ammosul were recorded in Region V in February (Php 1,506.47) and in CAR in March (Php 1,526.24) and April (Php 1,591.87). Lowest prices, on the other hand, were in Regions VIII and XI. In January, ammosul price in Region VIII averaged at Php 1,300.08/bag, while in March, Region XI average dealer price was only at Php 1,292.32/bag and Php 1,302.22 in April.

CAR had the highest average ammosul dealer prices during the 3 months (Php 1,533.65), while Region XI had the lowest (Php 1,302.31) (Table 15).

*Complete.* Complete fertilizer has been most expensive in Region V in February and March, with average prices of Php 1,993.56 and Php 2,037.44 respectively. In the same months, the lowest prices of complete fertilizer were recorded in Region XII, with Php 1,715.38/bag in February and Php 1,740.50/bag in March. In April, the highest price was recorded in CAR with Php 2,706.80, while Region XIII had the lowest with Php 1,896.06.

Average dealer price of complete fertilizer in CAR is the highest from February to April at Php 2,220.37, while in Region XII is the lowest at Php 1,793.50 (Table 15).

**Ammonium Phosphate.** Local dealer prices of ammophos averaged at Php 1,631.03 in February, Php 1,684.92 in March, and PHP 1,880.47 in April. Lowest prices were observed in Region XII in February (Php 1,464.19) and March (Php 1,496.17), and in Region XIII in April at Php 1,644.18.

On the other hand, Region V and CAR posted the highest dealer prices for ammophos. Prices in Region V averaged to PHP 1,879.05 in February and increased to Php 1,913.04 in March; in CAR, it posted Php 2,363.50 in April.

Ammophos in Region V has the highest average dealer price of ammophos during the three-month period, at Php 1,948.55. Region XII, on the other hand, had the lowest average at Php 1,583.54 (Table 15).

*Muriate of Potash.* Regarding MOP dealer prices, it posted an average price of Php 1,792.00/bag in February, Php 1,832.91 in March, and PHP 1,999.63 in April. Lowest price of MOP was observed in Region II during February (Php 1,634.54) and March (Php 1,699.89), and in Region VIII in April (Php 1,853.63). In contrast, the highest dealer prices of MOP were recorded in Region IX for the entire three-month period. MOP dealer prices at Region IX were at Php 1,944.27 in February, Php 2,040.48 in March, and rose further to Php 2,178.78 in April.

Region IX recorded the highest average dealer price of MOP with Php 2,054.51, while Region II had the lowest with Php 1,749.20 (Table 15).

**Diammonium Phosphate.** Comparison of DAP local dealer prices from February to April excludes regions I, II, III, V, and CAR from the analysis due to lack of data. With the data available, it shows that the lowest dealer prices of MOP were obtained from Region VIII in February, at Php 1,883.33; and in Region XIII in March (Php 2,405.81) and April (Php 2,430.00). Highest dealer prices of DAP, on the other hand, were observed in Region VII in February with Php 2,788.30, and March with Php 2,980.74; in Region XI in April with Php 3,078.26.

From February to March, the lowest average dealer price of DAP is from Region VIII at Php 1,883.33, while the highest is from Region VII at Php 2,944.30 (Table 15).

Table 15. Average dealers prices of the six major fertilizer grades per region, February to April 2022.

	- 3		erage Dealer		Grade (Php)	· ·	
Region	Prilled urea	Granular urea	Ammosul	Complete	Ammophos	МОР	DAP
CAR	2,785.01	2,749.95	1,533.65	2,220.37	1,933.38	1,858.07	-
Region I	2,713.46	2,723.99	1,368.67	1,928.09	1,763.26	1,839.92	-
Region II	2,743.15	2,714.04	1,481.48	2,100.36	1,882.81	1,749.20	-
Region III	2,741.12	2,639.27	1,389.66	2,071.60	1,722.48	1,839.26	-
Region IV	2,725.76	2,786.01	1,478.91	2,038.58	1,872.15	1,954.69	2,638.61
Region V	2,787.85	2,826.33	1,506.85	2,079.09	1,948.55	1,882.49	-
Region VI	2,814.83	2,648.70	1,341.43	1,865.22	1,602.05	1,813.53	2,508.85
Region VII	2,798.32	2,430.00	1,461.16	1,898.01	1,710.82	1,894.22	2,944.30
Region VIII	2,672.88	2,788.50	1,421.34	1,919.49	1,615.91	1,797.56	1,883.33
Region IX	2,619.84	-	1,406.27	1,876.85	1,742.32	2,054.51	2,585.16
Region X	2,679.04	-	1,386.68	1,853.63	1,693.74	1,881.55	2,706.61
Region XI	2,599.30	2,588.45	1,302.31	1,798.82	1,593.44	1,906.29	2,715.89
Region XII	2,567.23	2,579.04	1,310.25	1,793.50	1,583.54	1,878.06	2,652.72
Region XIII	2,536.11	2,572.90	1,355.72	1,820.62	1,585.52	1,898.50	2,401.98
BARMM	-	-	-	-	-	-	-

Average prices of different fertilizer grades show that fertilizers are generally more expensive in Region V and CAR, as the region are far from ports. On the contrary, fertilizer prices are generally lower in Regions XI, XII, and XIII due to close proximity to ports.

#### **Recommendations**

Given that the country is import dependent, including that of the local manufacturers raw materials 90% imported, notwithstanding the archipelagic situation of our regions which entails high logistical cost, the following recommendations based on this assessment are as follows:

- The government should open up bilateral agreement with countries (G2G) producing fertilizers for lesser acquisition cost.
- Regional dealer's prices should be based on the source of origin of the fertilizer sold and logistical cost following calculated price matrix approved (Appendix 1).
- The incorporation of Suggested Retail Price (SRP) and Maximum Retail Price (MRP), as per PD 1144 S 1977, on the packs and bags should be institutionalized with the agreement between the Department of Agriculture (DA) and Department of Trade and Industry (DTI). However, the said retail prices should be computed based on the location where the fertilizers are locally sold.
- The adaption of the Calculation of Fertilizer Price Matrix at Various Cost Levels (Appendix 1) should be the basis for DA and DTI impose the SRP and MRP for every import entry.
- The inclusion of Batch and Lot Number in the packs and Bags to determine the entry of this fertilizer, its origin and landed cost.

# Other Important Consideration in Mitigating Higher Fertilizer Prices

- Improve monitoring of fertilizer prices from imports to recording or dealer's prices. The improvement of monitoring of fertilizer imports should require more information from the importers to aid in better record-keeping and estimation of actual prices. This will result in more accurate data and help improve price studies in the future. Moreover, reporting of price values in averages only might not be an accurate representation of the dealer's prices given the differences in prices per region.
- To further improve the inventory monitoring through the fertilizer, watch system, batch number of importers and local producers should cover source of origin, manufacturing date, date of arrival, and landed cost (for imports).
- Importing companies be urged to coordinate and order bulk imports from certain countries, if possible, to avail of lower prices and discounts and save freight costs. Fertilizers imported at lower prices and less cost will result in cheaper fertilizers available for farmers in the market.
- Provide market assistance in regions where fertilizer is expensive to ensure supply and lower fertilizer prices by reducing additional transportation costs. Further market study should also be conducted at the regional level to assess the possibility of providing the same market intervention while conducting consultations with the stakeholders.
- The practice of balanced fertilization strategy should be introduced to lessen the impact of high fertilizer prices. The use of alternatives like organic, microbial, and biorational fertilizers, will also be explored to lessen dependence on chemical fertilizers.

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**Appendices** 

Appendix 1. Fertilizer Price Matrix at Various Cost Levels

Import Price/MT	\$100.00			\$250.00	\$300.00	\$350.00	\$400.00	\$450.00	\$500.00	\$550.00	\$600.00	\$650.00	\$700.00	\$750.00	\$800.00	\$900.00	\$1,000.00
Price per bag(50kgs) in Peso	<b>₽</b> 250	₱375	₱500	₱625	<b>₽</b> 750	₱875	₱1,000	₱1,125	<b>₱</b> 1,250	₱1,375	₱1,500	₱1,625	₱1,750	₱1,875	₱2,000	₱2,250	₱2,500
Discharging Costs (Duties, Arastre, Wharfage, Checkerage, Stevedoving, Weighing, Trucking, etc)	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00
Landed Cost	340	465	590	715	840	965	1,090	1,215	1,340	1,465	1,590	1,715	1,840	1,965	2,090	2,340	2,590
profit/bag(8%)	27	37	47	57	67	77	87	97	107	117	127	137	147	157	167	187	207
Trucking	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Labor (Loading/Unloading)	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Warehousing	10	10	10	10	10	10		10	10	10	10	10		10	10		10
Local Tax	8.50	11.63	14.75	17.88	21.00	24.13	27.25	30.38	33.50	36.63	39.75	42.88	46.00	49.13	52.25	58.50	64.75
Importer's Price to Distributor	412	550	688	826	964	1,102	1,240	1,379	1,517	1,655	1,793	1,931	2,069	2,207	2,345	2,622	2,898
profit/bag(8%)	33	44	55	66	77	88		1,379	1,517	132	1,793	1,931		177	2,345 188		232
Trucking	20	20	20	20		20		20	20			20		20	20		20
Labor	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
(Loading/Unloading)	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Warehousing	10	10	10	10	10	10		10	10					10	10		10
Local Tax	10.29	13.75	17.20	20.65	24.11	27.56	31.01	34.46	37.92	41.37	44.82	48.28	51.73	55.18	58.64	65.54	72.45
Distributor's Price																	
to Dealer	491	644	796	949	1,101	1,254	1,407	1,559	1,712	1,865	2,017	2,170	2,322	2,475	2,628	2,933	3,238
profit/bag(8%)	39	51	64	76	88	100	113	125	137	149	161	174	186	198	210	235	259
Trucking	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Labor (Loading/Unloading)	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Local Tax	12.27	16.09	19.90	23.72	27.54	31.35	35.17	38.98	42.80	46.61	50.43	54.25	58.06	61.88	65.69	73.32	80.96
Dealer's Price to	12.27	10.07	17.70	23.72	27.31	31.33	33.17	30.70	12.00	10.01	50.15	31.23	30.00	01.00	03.07	75.52	00.70
Farmer	₱568	<b>₽</b> 737	₱906	<b>₱</b> 1,074	<b>₱1,24</b> 3	<b>₱1,412</b>	₱1,580	₱1,749	<b>₱</b> 1,918	₱2,086	₱2,255	₱2,424	₱2,592	₱2,761	₱2,930	₱3,267	₱3,604
				•													

Appendix 2. Import prices per country of origin and dealer's prices per brand of prilled urea, February to April 2022.

Month				rice from Industry	Matrix (Php)	•							
(Exchange Rate)	Country of Origin	Import Price (\$/MT)	Landed Cost	Importers Price	Distributor's Price		Monitored Dealer's Price (Php)						
	Qatar	739.53	1,986.18	2,230.73	2,500.96	Amigo	Bacphil	Viking					
February	Qatar	/39.53	1,900.10	2,230.73	2,300.96	2,533.33	2,387.50	2,531.80					
2022	Uzbekistan	648.00	1,751.49	1,971.40	2,214.40								
(FX:51.2807)	Viotnom	042.50	250660	2 005 00	2.126.40	Amigo	Harvester	Philphos					
	Vietnam	942.50	2,506.60	2,805.80	3,136.40	2,525.00	2,560.84	2,672.50					
March 2022	Indonesia	778.43	2 116 70	2 275 06	2.660.44	Agro Planters	Amigo	Harvester	Philphos	Sunrise			
(FX:52.0740)	Indonesia	//8.43	2,116.79	2,375.06	2,660.44	2,800.00	2,638.81	2,677.66	2,773.75	2,450.00			
	Indonesia	603.00	1 657 00	1 067 07	2 000 11	Agro Planters	Amigo	Atlas	Harvester	Masagana			
April 2022	Indonesia	603.00	1,657.08	1,867.07	2,099.11	2,760.00	2,986.88	2,769.38	2,947.64	2,573.33			
(FX: 51.9760)	Oatan	070.17	2 (11 20	2.021.46	2 264 22	Amigo	Viking						
	Qatar	970.17	2,611.28	2,921.46	3,264.22	2,644.17	2,911.77						

Appendix 3. Import prices per country of origin and dealer's prices per brand of granular urea, February to April 2022.

Month	Country	Import	ĭ		ndustry Matrix (Php)	, , , , , , , , , , , , , , , , , , ,								
(Exchange Rate)	of Origin	Price (\$/MT)	Landed Cost	Importers Price	Distributor's Price			Mo	nitored Dea	ler's Price (P	hp)			
	China	350.00	1,531.99	1,728.84	1,946.37	Amigo	Atlas	Bacphil	Danat	DDDD Planters	Harvester	Swire		
February						2,405.00	2,558.89	2,400.00	2,610.42	2,510.00	2,466.67	2,347.03		
2022	Malaysia	677.13	2,663.67	2,979.35	3,328.19	Amigo	Harvester	Swire	Viking	Viking				
(FX:51.2807)	Maiaysia	0//.13	2,003.07	2,979.33	3,320.19	2,550.78	2,418.75	2,530.74	2,642.53	2,577.00				
	Qatar	734.02	2,860.50	3,196.85	3,568.52	Viking								
	Qatai	734.02	2,000.30	3,190.03	3,300.32	2,583.98								
March 2022	Malaysia	701.77	2,786.47	3,115.05	3,478.12	Amigo	Harvester	Swire	Viking					
(FX:52.0740)	Maiaysia	/01.//	2,700.47	3,113.03	3,470.12	2,832.40	2,564.00	2,696.79	2,797.28					
	China	854.00	854.00	2,309.38	2,587.86	2,895.58	Amigo	Atlas	Bacphil	Danat	DDD	Harvester	Planter's Gold	Swire
						2,950.00	2,903.68	2,675.00	3,060.00	3,250.00	2,775.00	3,100.00	2,978.39	
April 2022	Indonesia	766.18	2,081.16	2,335.68	2,616.93	Agro Planters	Amigo	Atlas	Harvester	Masagana				
(FX: 51.9760)						2,760.00	2,986.88	2,769.38	2,947.64	2,573.33				
	Oatar	1,030.83	2,768.92	3 005 66	3,456.70	Amigo	Viking							
	Qatar	1,030.03	2,700.92	3,095.66	3,430.70	2,644.17	2,911.77							
	Vietnam	832.00	2,252.20	2,524.68	2,825.77									

Appendix 4. Import prices per country of origin and dealer's prices per brand of ammonium sulfate, February to April 2022.

		Import			idustry Matrix	эрггооз ро	T DIGITAL OF C		<i>5</i> <b>4</b> 11 11 11 11 11 11 11 11 11 11 11 11 11		.p = 0 = =.													
Month (Exchange Rate)	Country of Origin	Price (\$/MT)	Landed Cost	Importers Price	Distributor's Price						Monitor	ed Dealer's I	Price (Php)											
	China	395.00	1,102.79	1,254.59	1,422.32	Agro Planters	Amigo	Atlas	Bacphil	Danat	DDDD	Harvester	Philphos	Planters	Planters Gold	Primera Planters	Sakura	Sunrise Planters	Swire					
22 7)	Cillia	393.00	1,102.79	1,234.39	1,422.32	1,296.16	1,360.04	1,351.05	1,413.75	1,365.85	1,310.56	1,381.00	1,400.06	1,338.40	1,240.00	1,150.00	1,350.00	1,500.00	1,371.74					
February 2022 (FX:51.2807)	Japan	330.00	936.13	1,070.43	1,218.82	Atlas	Amigo	Harvester	Marca Bulaklak	Swire														
brua X:51	Japan	330.00	730.13	1,070.43	1,210.02	1,355.59	1,449.06	1,305.83	1,462.58	1,390.00														
Fe (1	Taiwan	315.00	897.67	1,027.93	1,171.86	Atlas	DDDD																	
	Taiwaii	313.00	077.07	1,027.73	1,171.00	1,341.33	1,315.00																	
40)	China	306.48	887.99	1,017.23	1,160.04	Agro Planters	Amigo	Atlas	Bacphil	Danat	DDDD	Harvester	King Planters	Philphos	Planters	QGCF	Sakura	Sunrise	Swire					
52.07	J		007.55	1,017.20	1,017.23 1,160.04	1,340.86	1,369.70	1,448.18	1,331.25	1,374.17	1,270.00	1,391.72	1,450.00	1,388.00	1,311.88	1,310.00	1,350.00	1,500.00	1,390.10					
March 2022 (FX:52.0740)	Japan	247.50	734.42	847.53	972.52	Atlas	Marca																	
2022	Japan	217.00	751112	017.00	3,2102	1,384.86	1,450.36																	
arch 2	Taiwan	250.00	740.93	854.72	980.47	Atlas	DDD	Harvester	Marca	Planters														
M						1,328.15	1,316.67	1,280.00	1,400.00	1,300.00														
	China	365.79	1,040.63	1,185.89	1,346.41	Agro Planters	Amigo	Atlas	Bacphil	Danat	DDDD	Harvester	Philphos	Planters	Sakura	Sunrise	Swire							
6			-,	2,223.23	-,	1,301.34	1,420.11	1,439.37	1,337.50	1,370.14	1,325.00	1,384.02	1,525.08	1,326.25	1,365.00	1,670.00	1,379.63							
2022	Japan	312.25	901.48	1,032.13	1,176.50	Amigo	Atlas	Marca																
April 2022 (FX: 51.9760)	,			_,	-,	1,554.27	1,380.87	1,469.44																
(F.	Taiwan	335.00	960.60	1,097.46	1,248.69	Atlas	DDDD	Harvester	Marca	Planter's Choice														
		Taiwan 335.00 960.60 1,097.46	1,097.46	1,097.46	1,097.46	1,097.46	1,097.46	1,097.46	1,097.46		1,382.88	1,320.00	1,370.00	1,418.33	1,305.42									

Appendix 5. Import prices per country of origin and dealer's prices per brand of complete fertilizer, February to April 2022.

ate)				d Price from Matrix (Php)														
Month (Exchange Rate)	Country of Origin	Import Price (\$/MT)	Landed Cost	Importers Price	Distributor's Price						Monitor	ed Dealer's	s Price (Ph	o)				
Feb 2022 (FX:51.2807)	Korea	608.00	1,648.93	1,858.07	2,089.17	Amigo	Atlas	Bacphil	Harvester	PhilAsia	Philphos							
Feb (FX:5			ŕ	·	ŕ	1,841.72	1,901.67	1,826.00	1,891.79	1,926.20	1,830.00							
Mar 2022 (FX:52.0740)	China	576.50	1,568.17	1,768.82	1,990.55	Agro Planters	Amigo	Atlas	Danat	DDD	First Planters	Harvester	Philasia	Planter's Choice	Sunrise	Swire		
Mar 2 (FX:52	Cnina	376.30	1,568.17	1,768.82	1,990.55	1,702.50	2,050.00	1,996.67	1,973.33	1,833.33	2,000.00	1,866.07	1,925.00	1,723.75	1,913.33	1,917.08		
2022 .9760)	Cl.:	(00.00	1 000 57	244402	2.272.04	Agro Planters	Amigo	Atlas	Bacphil	Danat	DDD	First Planters	Harvester	Philphos	Planter's Choice	Sunrise	Swire	Turbo Prime
Apr 2 (FX: 51	China 689.00 1,880.57 (EX; 21.940)	2,114.03	3 2,372.01	1,770.00	1,980.18	1,996.26	1,890.00	1,971.40	1,906.04	2,000.00	2,058.29	1,975.00	1,782.22	2,499.17	1,886.86	2,180.00		

Appendix 6. Import prices per country of origin and dealer's prices per brand of ammonium phosphate, February to April 2022.

Month	Country			ted Price fro Matrix (Ph					•	•																				
(Exchange Rate)	of Origin	Import Price (\$/MT)	Landed Cost	Importers Price	Distributor's Price							Monit	ored Deale	r's Price (I	Php)															
.2	China 593.00 1,346.38 1,523.	1,523.75	1,719.74	Agro Planters	Amigo	Atlas	Bacphil	Danat	Danat Hi- Yield	DDDD	First Planters	Harvester	Marca Bulaklak	PhilAsia	Philphos	Planters	Primera Planters	Sunrise Planters	Swire											
<b>202</b> 807)						1,516.25	1,627.75	1,628.23	1,518.75	1,444.80	1,675.94	1,459.92	1,780.00	1,638.23	1,790.00	1,680.72	1,790.14	1,615.00	1,554.17	1,508.16	1,590.61									
February 2022 (FX:51.2807)	Korea	a 490.00 1,610.47 1,815.57 2,042.2	2 042 21	Amigo	Bacphil	PhilAsia																								
_			1,010117	1,010.47	2,013.21	1,646.16	1,480.00	1,675.00																						
<b>March 2022</b> (FX:52.0740)	No Data																													
<b>April 2022</b> (FX: 51.9760)	China	631.00	1,729.84	1,947.48	2,187.96	Agro	Amigo	Atlas	Bacphil	Danat	DDD	First Planters	Harvester	Marca	Philasia	Philphos	Planters	Primera	Sunrise	Swire										
April 2 (FX: 51.1		631.00	631.00	631.00	1,729.84 1,947.48	3.84 1,947.48	1,947.48	1,947.48	1,947.48	1,947.48	1,947.48	1,947.48	29.84 1,947.48		1,607.50	1,805.93	1,787.24	1,730.92	1,719.66	1,674.17	1,860.00	1,866.67	2,061.67	1,796.88	1,898.20	1,710.00	1,895.00	2,325.02	1,801.88	

Appendix 7. Import prices per country of origin and dealer's prices per brand of muriate of potash, February to April 2022.

Month	Country of	Import			ndustry Matrix	Monitored Dealer's Price (Php)						
(Exchange Rate)	Origin	Price (\$/MT)	Landed Cost	Importers Price	Distributor's Price		Į <b>V</b> J	ionitorea De	eaier's Price	(Pnp)		
	Jordan	627.50	2,491.99	2,789.65	3,118.56							
February 2022	Lao PDR	581.00	2,331.13	2,611.89	2,922.14	Amigo	Atlas	DDDD	Swire			
(FX:51.2807)	Ld0 FDK	361.00	2,331.13	2,011.09	2,722.14	1,835.75	1,725.00	1,900.00	1,883.33			
	Uzbekistan	607.00	2,421.07	2,711.28	3,031.97							
	Belarus	650.00	2,604.62	2,914.10	3,256.08	Harvester						
	Delal us	030.00	2,004.02	2,914.10	3,230.06	1,975.00						
	Canada	567.65	2,315.32	2,594.43	2,902.84	Agro Planters	Amigo	Atlas	Bacphil	Marca	Planters	Primera
March 2022	Callaua	307.03	2,313.32	2,371.13		1,900.00	1,894.65	1,911.10	2,027.50	1,900.00	1,775.00	1,860.00
(FX:52.0740)	Jordan -	492.50	2,051.32	2,302.71	2,580.49	Swire						
		492.30	2,031.32	2,302.71	2,300.49	1,778.50						
	Uzbekistan 580.00	2 250 71	264227	2 055 02	DDDD							
		300.00	2,358.71	2,642.37	642.37 2,955.82	2,200.00						
	Canada	600.00	1,649.28	3 1,858.45	2,089.59	Amigo	Atlas	Bacphil				
	Callaua	000.00	1,049.20	1,030.43	2,009.39	2,023.63	2,036.90	2,238.13				
	Jordan	591.11	1,626.18	1,832.93	2,061.39	Swire						
	jordan	391.11	1,020.10	1,032.93	2,001.39	1,813.13						
April 2022	Laos	826.00	2,236.61	2,507.45	2,806.74	Amigo	DDDD	Swire				
(FX: 51.9760)	Laos	626.00	2,230.01	2,507.45	2,000.74	1,961.13	2,150.00	2,100.00				
	Duggio	695.00	1,896.17	2,131.26	2 201 05	Harvester						
	Russia	093.00	1,090.1/	2,131.20	2,391.05	2,045.54						
	Uzbekistan	620.00	1,701.26	1,915.89	2.152.06	Agro Planters						
	OZDEKISTALI	020.00	1,/01.20	1,713.09	2,153.06	1,950.00						

Appendix 8. Import prices per country of origin and dealer's prices per brand of diammonium phosphate, February to April 2022.

Month	Country	Import	Estimate	d Price from In (Php)	dustry Matrix	Monitored Dealer's Price (Php)								
(Exchange Rate)	of Origin	Price (\$/MT)	Landed Cost	Importers Price	Distributor's Price		Monitored Dealer's Frite (Filp)							
February 2022 (FX:51.2807)	No Data													
March 2022 (FX:52.0740)	China	900.00	2,433.33	2,724.83	3,046.94	Amigo 2,690.63	Atlas 2,593.82	Bacphil 2,815.33	DDDD 2,950.00	<i>Harvester</i> 3,000.00	<i>Philphos</i> 3,185.00	Planters 2,500.00		
A:1 2022	China	900.00	2,428.92	2,719.96	3,041.55	Agro Planters	Amigo	Atlas	Bacphil	Danat	DDDD	Harvester	Philphos	Planters
April 2022 (FX: 51.9760)						3,334.03	2,786.42	2,688.63	2,384.00	2,230.00	2,706.25	2,818.19	3,263.33	2,525.63
	Vietnam	990.00	2,662.81	2,978.41	3,327.14	3,160.00								

Appendix 9. Dealer's prices per brand of the six major fertilizer grades in Region I, February to April 2022.

	Country of		Monitor	red Dealer's	Price
Grade	Origin	Brand		(Php)	
	<u> </u>	_	Feb-22	Mar-22	Apr-22
Prilled urea	Malaysia	Viking		2,965.00	
	Qatar	Viking		2,970.00	
		Amigo	2,200.00		
		Atlas	2,480.00		
	China	Danat	2,546.27	3,095.64	
Granular urea		Harvester	2,560.00	2,500.00	
Granular urea		Swire		2,891.25	
	Malaysia	Swire		2,970.75	
	Qatar	Viking		3,147.00	
		Amigo	1,300.00		
		Atlas	1,350.00		
	China	Danat	1,333.33	1,390.00	
	Cillia	Harvester	1,442.50		
Ammosul		Planter's Choice	1,437.50		
Timmosui		Swire		1,360.19	
	Indonesia	Harvester		1,288.50	
	Janan	Atlas			
	Japan	Marca Bulaklak		1,357.25	
		Atlas		1,950.00	
	China	Danat		2,050.00	
	Cillia	Harvester		1,825.00	
		Swire		1,978.00	
Complete	Japan	Atlas		2,100.00	
	Malayaia	Harvester		2,085.50	
	Malaysia	Swire		2,170.00	
	Distinguis	Philphos		2,111.00	
	Philippines	Turbo Prime		1,792.50	
		Atlas	1,571.00		
		Danat	1,900.00		
Ammophos	China	Harvester	1,850.00		
Ammophos		Philphos	1,900.00		
		Swire	1,782.54		
	Canada	Marca Bulaklak		1,900.00	
	China	Amigo		1,596.67	
MOD		Atlas	1,808.34		
МОР	Germany	Harvester	1,866.67		
		Marca Bulaklak	1,933.33		
	Japan	Atlas	,, =====	1,777.50	

Appendix 10. Dealer's prices per brand of the six major fertilizer grades in Region II, February to April 2022.

Appendix 10. Dealer		f the six major fertilizer gr		red Dealer	
Grade	Country of	Brand	Monito	(Php)	311100
diade	Origin	Diana	Feb-22	Mar-22	Apr-22
	Japan	Sunrise Planters			
D 111 1	Qatar	Viking	2,528.56	2,570.56	3,031.97
Prilled urea	77'	Amigo	2,525.00	2,800.00	
	Vietnam	Harvester	2,560.84	2,631.67	2,983.33
	Canada	Amigo	2,530.00	2,530.00	2,900.00
		Atlas	2,580.00	2,642.50	2,950.00
	China	Danat	2,635.00	2,550.00	2,900.00
Granular urea		Harvester	2,460.00		
	Indonesia	Harvester	2,500.00	2,850.00	3,078.06
		Harvester	2,460.00	2,528.00	
	Malaysia	Sunrise Planters			
		Swire	2,501.15	2,506.64	3,020.86
	Qatar	Viking	2,551.13	2,587.50	3,020.86
	China	Agro Planters		1,447.50	
		Amigo	1,483.26	1,450.00	1,495.00
		Bacphil	1,750.00		
		Danat	1,460.00	1,435.00	1,500.00
Ammosul		Harvester	1,474.82	1,476.67	1,530.95
Ammosui		Marca Bulaklak			
		Sunrise Planters	1,500.00	1,500.00	1,670.00
		Swire	1,446.94	1,472.10	1,547.86
	Japan	Atlas	1,372.50	1,650.00	1,670.83
	Japan	Marca Bulaklak	1,485.00	1,425.00	1,475.00
		Danat	1,888.75	1,896.67	2,190.00
		Harvester	1,925.00		2,690.00
	China	PhilAsia		1,925.00	
	Cillia	Planter's Choice	1,913.33		
		Sunrise Planters	1,875.00	1,913.33	2,499.17
		Swire	1,880.00	1,925.00	
		Amigo	1,900.00	2,430.00	
Complete	Korea	Harvester	1,855.00	1,850.00	
	Korea	PhilAsia	1,826.67	1,960.00	2,335.25
		Swire			2,483.33
	Malaysia	Harvester	1,950.00	1,910.00	
		Atlas	1,800.00	1,975.00	
	Dhilimmir	Philphos	1,908.51	2,078.61	
	Philippines	Takada	1,383.33	1,395.00	
		Turbo Prime	1,650.00	1,800.00	

		Amigo	1,536.00		
		Atlas		2,200.00	
		Danat	1,600.00		
	China	Harvester		1,680.00	
		Philphos			
		Sunrise Planters	1,596.32	1,907.86	2,325.02
		Swire	1,498.00	1,510.00	2,125.00
Ammophos	Indonesia	Marca Bulaklak			
	Illuollesia	PhilAsia		2,177.50	
	Japan	Marca Bulaklak			1,800.00
	Korea	PhilAsia	1,600.00	2,200.00	2,200.00
	Malaysia	Harvester	1,545.00	1,782.50	2,516.39
	Philippines	Atlas			2,386.67
		Philphos	1,635.00	1,767.22	2,235.56
	Vietnam	Amigo		2,375.00	2,412.50
	Canada	Amigo	1,716.67	1,808.33	1,960.00
	Callaua	Atlas	1,740.00	2,050.00	1,987.50
	China	Atlas	1,500.00	1,500.00	1,885.00
	Cillia	Sunrise Planters	1,500.00	1,500.00	1,800.00
MOP	Cormany	Atlas	1,500.00		
	Germany	Marca Bulaklak		1,500.00	1,800.00
	Japan	Swire		1,857.00	
	Jordan	Sunrise Planters	1,520.00		
	joruan	Swire	1,691.67		1,976.25

Appendix 11. Dealer's prices per brand of the six major fertilizer grades in Region III, February to April 2022.

	Country of	of the six major fertilizer		red Dealer'	
Grade	Origin	Brand		(Php)	
	Origin		Feb-22	Mar-22	Apr-22
	China	Atlas			3,200.00
	Cillia	Swire			3,200.00
Prilled urea	Indonesia	Atlas	2,050.00		
T Tilled area	Japan	Atlas		2,950.00	3,031.25
	Norway	Viking		3,140.00	3,120.00
	Qatar	Viking	2,534.79	3,019.72	3,041.86
		Atlas		2,550.00	3,000.00
	China	Harvester		2,800.00	2,920.00
Granular urea		Swire	2,347.03	2,952.22	2,978.39
	Indonesia	Harvester	2,433.57	2,780.00	
	Japan	Marca Bulaklak	1,271.00		
Granulai urea		Amigo	2,426.67		
	Malaysia	Harvester	2,400.00		3,050.00
		Swire	2,538.00	2,855.24	2,914.58
		Viking	2,550.00		
	Qatar	Viking	2,506.12	2,887.56	3,040.56
		Harvester	1,359.75	1,340.67	1,311.50
	China	Swire	1,437.24	1,402.39	1,391.20
		Amigo	1,300.00		
Ammosul	T	Atlas	1,405.29	1,306.67	1,300.00
	Japan	Marca Bulaklak	1,414.44	1,438.80	1,416.76
	Philippines	Philphos	1,636.67		
	Taiwan	Marca Bulaklak		1,400.00	1,418.33
		Atlas	2014.285	2,350.00	2,350.00
	China	Danat	1966.665	-	-
	Cillia	Harvester	1775	1,947.78	1,947.78
		Swire	2,061.83	2,208.20	1
	Japan	Atlas	1,773.75	2,193.92	2,193.92
Complete	Vones	PhilAsia	1,870.00	2,250.00	2,300.00
	Korea	Swire	-	-	2,183.67
	Malaysia	Swire	-	2,205.56	2,205.56
		Atlas	2,100.00	2,326.67	2,475.00
	Philippines	Philphos	1,907.11	2,133.64	2,254.15
		Turbo Prime	-	1,835.00	2,093.33

		Amigo	1,690.00		
		Atlas	1,687.97	1,762.50	1,887.50
		Danat	1,800.00		
		Harvester		1,730.00	
	China	Marca Bulaklak	1,680.00		
		PhilAsia	1,461.43	1,618.75	1,618.75
Ammophos		Philphos	1,923.33	2,000.00	1,838.75
		Planter's Choice	1,680.00		
		Swire	1,800.00	1,780.50	1,724.17
	Japan	Atlas	1,800.00		
		Marca Bulaklak		1,800.00	
	Korea	Amigo	1,630.00	1,765.00	1,875.00
	Philippines	Philphos	1,750.00		
	Canada	Amigo			1,931.00
		Atlas			2,100.00
		Marca Bulaklak			
	China	Planter's Choice	1,450.00		
	Cillia	Swire	1,625.00	1,794.44	
MOP	Germany	Atlas	1,958.96		
	Germany	Marca Bulaklak		2,008.33	2,091.50
		Atlas	1,600.00	1,700.00	1,958.00
	Japan	Marca Bulaklak	1,693.75	1,708.33	1,864.00
		Swire		1,700.00	
	Jordan	Amigo			1,650.00

Appendix 12. Dealer's prices per brand of the six major fertilizer grades in Region IV, February to April 2022.

	Country of	f the six major fertilizer gr		red Dealer'	
Grade	Origin	Brand		(Php)	
	Origin		Feb-22	Mar-22	Apr-22
Prilled urea	Malaysia	Amigo	2,500.00		
Timea area	Qatar	Viking	2669.367	2,713.24	2,782.54
	China	Danat	2,650.00	2,675.00	3,060.00
	Indonesia	Harvester	2,586.25	2,640.00	2,634.95
	Korea	Amigo	2,793.75	2,762.50	2,928.75
Granular urea		Amigo	2,646.39		2,741.35
	Malaysia	Swire	2,645.79	2,697.32	2,743.39
		Viking	2,577.00	2,797.28	2,884.87
	Qatar	Viking	2,738.50	2,775.00	2,930.00
		Amigo	1,484.78	1,450.93	1,464.90
	China	Harvester	1,575.00	1,600.00	1,600.00
		Sakura	1,350.00	1,350.00	1,353.75
Ammosul	Indonesia	Harvester	1,362.50	1,416.67	1,416.67
	Japan	Atlas	1,362.92	1,408.89	1,412.08
		Marca Bulaklak	1,424.25	1,455.52	1,454.54
	Malaysia	Swire			1,575.00
		Danat	1,870.00		
	China	First Planters	2,000.00	2,000.00	
		Harvester	1,885.00		
	Japan	Atlas	1,922.09	2,075.00	2,090.00
		Katana	1,950.00	1,950.00	1,950.00
Complete	Korea	Amigo	1,925.88	2,075.00	2,126.52
Complete		Atlas	1,901.67	1,950.00	2,091.86
		Harvester	1,928.57		
		PhilAsia	1,995.00	2,230.00	2,234.17
		Atlas	1,946.25	2,000.00	2,358.33
	Philippines	Philphos	2,187.50		
		Turbo Prime	1,858.33	1,848.61	1,957.08
		Amigo	1,833.33	1,833.33	1,843.75
		Atlas	1,784.17	1,850.00	1,885.00
	China	Danat	1,703.75		
	China	First Planter	1,780.00	1,780.00	1,820.00
		Marca Bulaklak	1,900.00	1,900.00	1,900.00
Ammophos		Swire	1,762.00	1,791.67	1,812.92
	Ianan	Atlas	1,643.34		
	Japan	Marca Bulaklak		2,000.00	2,000.00
	Vonce	Amigo	1,788.75	1,857.98	1,865.93
	i Korea –	PhilAsia	1,750.00	1,890.00	1,903.13
	Philippines	Philphos	2,000.00	1,800.00	1,800.00

	Canada	Amigo	1,874.68	1,921.88	2,026.34
	Callaua	Atlas	1,879.17	1,875.00	1,912.50
	China	Amigo	1,950.00		
	Germany	Atlas	1,868.75		
MOP		Marca Bulaklak		1,891.25	1,891.25
	Japan	Atlas	2,100.00	2,060.00	2,038.75
		Marca Bulaklak	1,979.86	2,075.00	2,075.00
		Amigo	1,836.99	1,890.56	1,943.56
	Laos	Swire	1,883.33	1,925.00	2,081.25
DAP	China	Amigo		2,650.00	

Appendix 13. Dealer's prices per brand of the six major fertilizer grades in Region V, February to April 2022.

Appendix 13. Dealer S		the six major fertilizer g		red Dealer'	
Grade	Country of	Brand	Monito	(Php)	Jine
diade	Origin	Diana	Feb-22	Mar-22	Apr-22
		Amigo	2,700.00	2,820.00	2,878.75
	Indonesia	Philphos	,	2,992.50	2,992.50
Prilled urea	Malaysia	Amigo	2,680.00	ŕ	2,680.00
	Qatar	Viking	2,622.19	2,806.77	2,942.32
	Vietnam	Amigo		2,680.00	
	Indonesia	Amigo	2,982.50	2,795.00	2,918.75
Cranylar Uras	Indonesia	Harvester	2,598.89	2,791.67	2,903.75
Granular Urea	Malaysia	Amigo		2,955.00	3,138.75
	Qatar	Viking	2,732.15	2,866.39	2,970.03
		Amigo	1,598.13	1,486.67	1,554.27
Ammosul	Japan	Atlas	1,450.00		1,470.83
		Marca Bulaklak	1,526.65	1,575.22	1,525.82
	China	Amigo			2,206.08
	Cillia	Harvester	1,870.00		
	Japan	Atlas	1,980.00	2,246.25	2,342.84
Complete	Korea	Amigo		2,179.42	
Complete	Korea	PhilAsia	2,013.13	2,049.00	2,105.56
	Philippines	Atlas		2,218.21	2,279.92
		Philphos	2,000.00	2,025.00	2,025.00
		Turbo Prime	1,658.34	1,830.00	1,951.25
		Amigo	1,831.66	1,962.50	2,086.14
		Atlas	1,898.96	1,960.00	1,965.83
	China	Marca Bulaklak			2,223.33
		PhilAsia	1,900.00		1,975.00
Ammophos		Philphos	1,880.00		
Aiiiiiopiios	Japan	Amigo		1,853.33	
	Japan	Atlas	1,856.75		2,250.00
	Korea	Amigo	1,885.00		1,856.67
	Philippines	Marca Bulaklak			2,227.78
	Fillippines	Philphos	1,862.50	1,920.00	1,922.50
	Canada	Amigo	1,670.56	1,920.00	1,862.50
	Callaua	Atlas	1,945.83		2,051.11
МОР	Indonesia	Philphos			2,430.00
WIOI	Japan	Atlas	2,057.50	2,030.00	2,065.42
	Jordan	Swire			
	Russia	Harvester			2,050.00
		Amigo	2,428.08		
DAP	China	Atlas	2,496.04		
DAI	Cnina	Bacphil	2,500.00		
		Philphos	2,925.00		

Appendix 14. Dealer's p		ne six major fertilizer grad		<u>I, February to .</u> <b>red Dealer</b>	
Grade	Country of	Brand		(Php)	
	Origin		Feb-22	Mar-22	Apr-22
		Atlas	2,435.00		
	China	Harvester		3,020.00	
Prilled urea	Cillia	Philphos	2,580.00		
Fillieu ulea		Planter's Choice	2,400.00		
	Indonesia	Harvester	2,370.00		
	Qatar	Viking	2,424.17	3,310.00	
		Amigo	2,610.00		
	China	Atlas	2,616.67		
		Planter's Choice			3,100.00
	Indonesia	Amigo			3,055.00
	muonesia	Harvester			3,070.00
Granular	Japan	Atlas		2,950.00	2,950.00
	Malaysia	Amigo	2,579.29	2,709.80	2,748.42
		Swire		2,650.00	2,650.00
	Philippines	Viking	2,650.00		
	Qatar	Amigo		2,600.00	2,716.67
		Viking		2,600.00	3,160.00
		Amigo	1,318.39	1,391.42	1,364.97
		Atlas	1,330.00	1,422.50	1,435.00
		Bacphil	1,220.00	1,350.00	1,350.00
Ammosul	China	Harvester	1,300.00		1,520.00
miniosui		Philphos	1,330.00		
		Planter's Choice	1,240.00		
		Primera Planters	1,150.00		
	Japan	Atlas	1,295.97	1,406.67	1,337.78
		Amigo	1,845.38		1,935.08
		Bacphil			1,890.00
	China	Harvester	1,710.00		
		Philphos	2,000.00		
Complete		Swire		1,850.00	
Complete	Japan	Atlas		1,875.00	2,007.50
	Korea	Amigo	1,794.75	1,891.80	
	Malaysia	Harvester	1,757.50	1,800.00	1,818.75
	Philippines	Atlas	1,777.57	1,920.09	1,865.93
	Vietnam	Amigo		2,395.00	2,395.00

	Canada	Amigo		1,600.00	1,600.00
		Amigo	1,483.00	1,661.11	1,632.81
		Atlas	1,535.63	1,582.50	1,637.94
Ammonhos	China	Bacphil	1,550.00		1,700.00
Ammophos		Philphos	1,730.00		
		Primera Planters	1,500.00		1,895.00
	Korea	Amigo	1,486.00	1,646.83	1,677.30
	Korea	Bacphil		1,700.00	1,750.00
	Canada	Amigo	1,849.00	1,853.50	1,903.01
		Atlas	1,713.03	1,852.50	1,942.50
		Bacphil	1,700.00		
MOP		Primera	1,780.00	1,860.00	
		Amigo	1,716.03	1,882.00	1,882.00
	China	Bacphil			
		Primera			1,885.00
		Amigo	2,737.92	2,414.17	2,358.89
DAP	China	Atlas	2,794.17	2,630.21	2,593.23
DIII	Giillia	Bacphil			1,875.00
		Philphos		3,470.00	3,510.00

Appendix 15. Dealer's prices per brand of the six major fertilizer grades in Region VII, February to April 2022.

	Country of	the six major fertilizer gr		Monitored Dealer's Price (Php)			
Grade	Origin	Brand	Feb-22	Mar-22	Apr-22		
		Agro	2,430.00				
		Amigo	2,635.00	2,791.67	2,858.85		
	China	Atlas		3,100.00	3,150.00		
		Philphos	2,596.67	3,100.00	2,926.88		
		Primera	2,452.50				
		Amigo	2,591.54	2,840.00	2,980.00		
Prilled urea	Indonesia	Harvester	2,575.00	2,950.00	2,927.08		
		Philphos			3,008.00		
	Korea	Philphos		2,725.00			
	Qatar	Viking		3,075.00	2,765.28		
	Saudi Arabia	Bacphil	2,500.00	2,600.00			
		Amigo			2,987.50		
	Vietnam	Philphos	2,672.50		4 40 = 00		
		Amigo	1,362.50		1,635.00		
	China	Atlas	1,287.50	1,423.75	1,572.03		
Ammosul		Philphos	1,400.00		1,700.00		
	Indonesia	Harvester	1,286.67				
	Japan	Atlas	1,336.50		4 0 0 4 0 =		
	China	Amigo	1,725.00	2,200.00	1,901.25		
		Atlas	1,802.29	1,867.00	1,946.28		
		Philphos	4.070.00		1,825.00		
		Primera	1,850.00		2.250.00		
C 1.	Indonesia	Harvester	1,825.00		2,350.00		
Complete	Japan	Atlas	1,783.33		4.000.00		
	17	Amigo	1,790.00	1,840.00	1,998.00		
	Korea	Atlas	1.000.00	1,930.00	1,960.63		
	m ·	Philphos	1,830.00	2,150.00	2,350.00		
	Taiwan	Atlas	1,770.00	1.050.00	2.050.00		
	Vietnam	Philphos	2,010.00	1,850.00	2,050.00		
	China	Amigo	1,578.34		1,822.50 1,691.50		
	Cillia	Atlas	1,617.36		2,250.00		
Ammophos		Philphos	1,750.00		2,230.00		
Allillopilos	Korea	Amigo Primera Planters	1,608.33				
	Malaysia	Philphos					
	Malaysia Vietnam	Atlas	1,500.00 1,542.50				
	viculani	Amigo	1,738.34	1,900.00	2,057.29		
	Canada	Atlas	1,791.25	1,900.00	2,127.29		
МОР		Amigo	1,450.00		D, 1 D / 1 D /		
	China	Atlas	1,900.00	1,850.00	1,950.00		
	Laos	Atlas	1,725.00	1,030.00	2,700100		
	Philippines	Philphos	1,7 23.00		2,187.50		
	· · · · · · · · · · · · · · · · · · ·	Amigo		3,000.00	3,231.25		
DAP	China	Atlas		5,000.00	3,300.00		
		Philphos		2,900.00	3,016.67		
		1 mipnos	1	4,700.00	5,510107		

Appendix 16. Dealer's prices per brand of the six major fertilizer grades in Region IX, February to April 2022.

Appendix 16. Dealer's pr	Country of		Monitored Dealer's Price		
Grade	Origin	Brand	(Php)		
	g		Feb-22	Mar-22	Apr-22
		Amigo	2,350.00		
	China	Atlas	2,480.56	2,462.22	2,410.21
	Giiiiu	Philphos	2,581.13	2,651.39	2,786.82
		Planters			2,980.00
		Amigo	2,470.00	2,470.00	2,510.00
Prilled urea	Indonesia	Atlas			
Timea area	maonesia	Harvester	2,496.81	2,504.17	2,680.63
		Philphos		2,555.00	2,753.13
	Japan	Atlas			
		Amigo	2,500.00		
		Atlas	2,610.00		
	Philippines	Planters	2,100.00		
Granular urea	Indonesia	Philphos		2,750.00	
		Atlas	1,373.33	1,340.00	1,421.67
		Harvester	1,380.00	1,360.00	1,345.83
	China	Philphos	1,435.30	1,388.00	1,425.25
		Planters	1,250.00	1,310.00	1,330.00
		QGFC		1,310.00	
	Indonesia	Harvester	1,400.00	1,340.00	1,390.00
Ammosul	iliuollesia	Philphos			
Allillosul	Japan	Atlas	1,245.00	1,200.00	1,200.00
		Harvester			
		Atlas	1,269.17	1,340.00	1,400.42
	Philippines	Philphos	1,458.10	1,444.45	1,437.78
		Swire	1,500.00		
	Qatar	Bacphil			1,340.00
	Taiwan	Atlas			1,450.00
		Atlas	1,680.00		2,000.00
	China	Harvester		1,805.00	1,805.00
Complete		Philphos	1,900.00		2,100.00
Complete		Amigo			1,750.00
	Philippines	Atlas	1,776.57	1,831.25	1,869.99
		Philphos	1,922.33	1,915.77	1,986.41
		Atlas	1,607.50		1,855.00
		Danat	1,460.00		
	China	Harvester			1,866.67
		Philphos	1,682.50	1,700.00	1,834.06
Ammophos		Planters			1,850.00
	Indonesia	Harvester		1,565.00	1,707.50
	Philippines	Atlas	1,648.06	1,590.50	1,712.75
	Титрринез	Philphos	1,772.85	1,754.31	1,832.46
	Taiwan	Philphos			

		1	1		
	Belarus	Harvester	1,996.67		1,981.25
		Atlas	1,887.50	2,015.00	2,314.17
MOP	Canada	Harvester			
MOI		Planters	1,650.00		
	China	Atlas	1,990.00	1,961.25	1,961.25
	Cillia	Harvester	1,917.92	2,007.50	2,472.50
	Indonesia	Harvester	1,987.50		
		Philphos	2,750.00	2,430.00	
	Dhilipping	Atlas	1,945.00		
	Philippines	Philphos	2,003.34	2,260.00	2,140.00
	Russia	Harvester	1,950.00	2,050.00	
		Amigo	2,577.12		
DAP	China	Atlas	2,558.75		
	China	Danat	2,670.00		
		Harvester	2,699.17	2,650.00	2,675.00
	Dhilinnings	Atlas		2,700.00	2,700.00
	Philippines	Planters	_	2,615.00	2,615.00
	Russia	Planters		2,600.00	2,600.00

Appendix 17. Dealer's prices per brand of the six major fertilizer grades in Region X, February to April 2022.

Grade	Country of	he six major fertilizer g Brand		Monitored Dealer's Price (Php)			
Grade	Origin	Brand	Feb-22	Mar-22	Apr-22		
		Atlas	2,507.86		2,792.67		
	China	Danat	2,399.38		2,622.50		
	China	Philphos	2,605.00				
		Swire	2,542.25				
		Agro Planters	2,470.00				
		Amigo	2,407.00		2,774.17		
Prilled urea	Indonesia	Atlas	2,520.00				
Prilled urea		Bacphil	2,260.00				
		Harvester	2,543.93				
	Norway	Viking	2,482.50		2,520.00		
	Octor	Bacphil			2,813.33		
	Qatar	Viking					
	Viotnam	Agro Planters			3,181.67		
	Vietnam	Harvester			2,839.67		
		Agro Planters	1,270.00		1,240.00		
		Amigo	1,275.72		1,300.00		
		Atlas	1,401.82		1,367.56		
	China	Danat	1,370.00		1,311.67		
Ammosul		Harvester	1,339.81		1,343.33		
		Philphos	1,460.00		1,450.00		
		Swire	1,300.00		1,260.00		
	Taiwan	Atlas			1,339.29		
	Taiwaii	Harvester			1,370.00		
		Agro Planters	1,645.00		1,800.00		
		Amigo	1,677.50		1,915.56		
	China	Atlas					
Complete		Danat			1,810.00		
		Harvester	1,847.50		1,950.00		
	Philippines	Atlas	1,767.88		1,974.93		
	Timppines	Philphos	1,912.50		2,040.00		
		Agro Planters			1,690.00		
		Amigo	1,498.00		1,788.18		
	China	Atlas	1,536.08		1,803.39		
	Cillia	Danat	1,480.83		1,630.00		
Ammophos		Harvester	1,697.50				
Allinopilos		Philphos	1,775.00		1,670.00		
	Korea	Amigo	1,493.33		1,788.18		
	Kurca	Atlas			1,831.78		
	Philippings	Atlas	1,525.00				
	Philippines	Philphos	1,713.33		1,886.67		

	Belarus	Harvester	1,658.33	2,020.00
	Canada	Amigo	1,709.14	2,209.44
MOP	Callaua	Atlas	1,751.54	1,933.96
	China	Bacphil	1,760.00	
	Cillia	Atlas		
	Canada	Atlas	2,450.00	
		Agro Planters	2,584.50	
	China	Amigo	2,583.89	2,816.86
		Atlas	2,460.00	2,520.00
		Bacphil	2,796.25	
		Danat		2,230.00
DAP		DDDD Planters	2,654.17	
		Harvester	2,544.30	2,765.00
		Agro Planters	2,535.00	
	Indonesia	Harvester	2,700.00	
		Atlas	2,425.00	
	Philippines	Agro Planters	2,075.00	
	Uzbekistan	DDDD	2,800.00	

Appendix 18. Dealer's	ppendix 18. Dealer's prices per brand of the six major fertilizer grades in Region XI, February to April 2						
Grade	Country of Origin	Brand		Monitored Dealer's Price (Php)			
		A . 1	Feb-22	Mar-22	Apr-22		
	Canada	Atlas	2,435.00	2,680.00	2,790.00		
		Agro Planters	2,500.00	0.500.00	2,850.00		
		Amigo	2,460.24	2,700.00	2,549.17		
		Atlas	2,469.17	0.500.00			
	Claire a	Danat	2,400.00	2,700.00	2.052.75		
	China	DDDD Planters	2,519.44	2,675.00	2,853.75		
		Harvester	2,440.64	2,670.00	2,586.67		
		Philphos	2,420.00		2 775 00		
		Swire		2.000.00	2,775.00		
		Viking	2 455 14	2,900.00	3,000.00		
	Indonesia	Agro Planters	2,455.14	2,800.00	2,833.33		
	Indonesia	Amigo	2,455.00	2,600.00	2,658.33		
Duillad		Harvester	2,313.33	2,475.00	2,682.50		
Prilled urea	Japan	Atlas	2,500.00				
		Swire	2,450.00				
	Malaysia	Amigo	2,444.00	0.450.00	2.610.00		
		Harvester	0.450.00	2,650.00	2,610.00		
		Swire	2,450.00	2,610.00			
	Qatar	Bacphil	2,387.50	2,600.00			
		Viking	2,470.67	2,658.05			
	Philippines	Agro Planters			0.600.00		
		Amigo			2,600.00		
		Amigo			2,675.00		
	Qatar	Bacphil			2,761.67		
		Harvester			2,545.00		
	** 1 1	Viking			2,831.88		
	Uzbekistan	Amigo		0.500.00	2,480.00		
	Canada	Amigo	2 400 00	2,560.00	2.675.00		
	CI.:	Bacphil	2,400.00	2,700.00	2,675.00		
	China	DDDD Planters	2,510.00	2 2 2 2 2 2	3,250.00		
		Harvester	2,380.00	2,800.00	2,625.00		
	Indonesia	Agro	2,380.00	2,600.00	2,760.00		
Granular urea	Japan	Swire	2,450.00	2 (22 22	2.700.00		
	N/ 1 .	Harvester	2,396.25	2,600.00	2,780.00		
	Malaysia	Swire					
	DI III	Viking	0.500.00				
	Philippines	Harvester	2,520.00	0.500.00	2.707.50		
	Qatar	Viking	2,495.00	2,500.00	2,787.50		
	Uzbekistan	Agro Planters			2,290.00		

	Canada	Atlas	1,322.86	1,270.00	1,281.67
		Agro Planters	1,308.81	1,300.00	1,320.27
		Amigo	1,374.89	1,275.00	1,312.50
		Atlas	1,357.50	1,700.00	1,312.00
		Bacphil	1,335.00	1,320.00	1,330.00
	China	Danat			
	Cillia	DDDD Planters	1,310.56	1,270.00	1,325.00
		Harvester	1,339.77	1,268.00	1,305.31
		King Planters		1,450.00	
		Philphos	1,375.00		
		Swire	1,347.50		
		Agro	1,308.67	1,300.00	1,280.00
Ammosul	Indonesia	Amigo			
		Harvester	1,365.00		
	Japan	Atlas	1,349.59	1,350.00	1,336.67
	Japan	Swire	1,390.00		
	Korea	Amigo		1,650.00	
	Kurea	Bacphil			1,260.00
	Malaysia	Atlas	1,220.00	1,250.00	1,250.00
	Malaysia	Swire	1,350.00		
	Philippines	Agro	1,280.00		
	Qatar	Bacphil	1,350.00	1,350.00	
	Taiwan	Atlas	1,341.67		
		DDDD	1,315.00	1,346.67	1,320.00
		Harvester		1,280.00	
	Canada	Atlas	1,523.34		1,950.00
	Canada	Amigo			
		Agro Planters	1,620.00	1,700.00	
		Amigo	1,761.39	1,900.00	1,843.75
		Atlas	1,675.64		1,820.00
		Bacphil	1,370.00		
	China	Danat	1,777.64		1,936.59
	Cillia	DDDD Planters	1,713.89	1,833.33	1,906.04
		Harvester	1,695.33	1,917.00	1,896.53
Complete		Philphos			2,000.00
Gompiete		Swire	1,710.00	1,860.00	1,856.88
		Turbo Prime			2,180.00
		Agro	1,596.67		
	Indonesia	Amigo			1,850.00
		Harvester	1,820.00		
	Japan	Atlas	1,778.33	1,900.00	
	japan	Swire	1,750.00		
		Amigo	1,788.33	1,865.00	2,000.00
	Korea	Bacphil	1,802.00	1,868.00	1,971.00
		Harvester			1,875.00

		Atlas	1,640.00	1,920.00	1,920.00
	Malaysia	Swire	1,737.22	2,720.00	,, , , , , , , , , , , , , , , , , , , ,
		Agro	1,612.78	1,766.67	1,780.13
Complete	Philippines	Amigo	1,780.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1		Atlas	1,750.00	1,950.00	
	Taiwan	Atlas	1,700.00	,	
	Vietnam	Harvester	1,670.00	1,950.00	1,950.00
		Atlas	1,653.33	1,650.00	
	Canada	Amigo	1,850.00	·	
		Swire	1,490.00		
		Agro Planters	1,516.25		1,525.00
		Amigo	1,571.67		1,700.00
		Atlas	1,596.67		1,628.75
		Bacphil	1,487.50	1,757.00	1,761.83
	China	Danat	1,404.13		1,823.66
		DDDD Planters	1,459.92	1,595.00	1,674.17
		Harvester	1,578.96	1,300.00	
Δ 1		Philphos			
Ammophos		Swire	1,452.57	1,685.00	1,641.67
	Indonesia	Agro	1,510.00		
	T	Atlas	1,477.50	1,300.00	1,460.00
	Japan	Swire	1,470.00		
	Korea	Amigo		1,750.00	1,661.25
		Bacphil	1,480.00		
	Malaysia	Atlas	1,420.00	1,420.00	1,520.00
	Malaysia	Swire	1,453.75		
	Philippines	Agro	1,527.29	1,563.33	1,585.42
	Pillippines	Amigo	1,400.00		1,750.00
	Vietnam	Harvester	1,670.00	1,600.00	1,700.00
	Belarus	Harvester	1,880.00		1,900.00
		Agro		1,900.00	1,917.50
	Canada	Amigo	1,759.17	2,045.00	
	Canada	Atlas	1,766.83	1,968.50	1,966.82
		Bacphil	1,847.50	2,250.00	2,450.00
		Agro	1,817.50		1,812.50
		Amigo	1,878.54	1,580.00	2,180.83
		Atlas	1,787.49	2,200.00	2,225.00
MOP	China	Bacphil	1,850.00		
		Danat	1,800.00		1,900.00
		DDDD Planters	1,795.00	1,780.00	2,090.83
		Harvester	1,776.67		1,987.50
	Indonesia	Agro	1,850.84		
	Indonesia	Amigo			2,000.00
	Japan	Atlas	1,825.00	1,895.00	2,032.18
	Jordan	DDDD	1,900.00		
	Korea	Amigo		1,830.00	1,850.00

	Laos	DDDD		1,925.00	2,150.00
		Agro	1,720.00		
	Philippines	Amigo			1,830.00
	Pillippines	Bacphil			2,400.00
		Danat	1,750.00		
	Qatar	Amigo			
MOP		Viking			1,850.00
	Russia	Agro			
	Kussia	Harvester	1,786.67		
	Taiwan	Atlas		1,860.00	
	Usbekistan	Agro	1,870.00		1,950.00
	USDEKISTAII	DDDD		2,200.00	
	Vietnam	Atlas			1,790.00
	Canada	Amigo			4,300.00
		Agro Planters			3,334.03
		Amigo	2,621.25	2,800.00	2,895.00
	China	Atlas	2,583.33		2,460.00
		Bacphil		2,815.33	2,893.00
5.45		DDDD		2,950.00	2,706.25
DAP		Harvester		3,350.00	3,014.58
	Janan	Amigo	2,489.44		
	Japan	Atlas		2,650.00	2,775.00
	Laos	DDDD		2,800.00	
	Philippines	Agro	2,518.15	2,950.00	3,025.00
	riiiippiiies	Atlas			
	Qatar	Bacphil	2,601.11		
	Vietnam	Harvester		3,390.00	3,160.00

Appendix 19. Dealer's prices per brand of the six major fertilizer grades in Region XII, February to April 2022.

	Country of Origin	f the six major fertilizer gr		Monitored Dealer's Price		
Grade		Brand	F 1 00	(Php)	4 00	
	0		Feb-22	Mar-22	Apr-22	
	Canada	Amigo	2,410.11		0.004.44	
	al .	Agro Planters			2,901.11	
	China	Atlas	2,432.48	2,465.83	2,770.83	
		Danat	2,363.67	2,478.47	2,780.06	
Prilled urea		Agro	2,419.96			
1 1110 01 011 001		Amigo		2,549.13	2,807.22	
	Indonesia	Danat	2,363.58			
		Harvester	2,378.89	2,439.11	2,839.73	
		Sunrise		2,450.00		
	Qatar	Bacphil		2,473.33	2,666.67	
	Queur	Viking	2,404.67	2,527.99	2,818.60	
		Harvester			2,818.16	
	Malaysia	Swire	2,438.03	2,500.81		
Granular urea		Viking				
	Philippines	Viking	2,447.50		2,821.04	
	Qatar	Viking	2,525.00	2,546.67		
	China	Agro Planters	1,309.67	1,272.19		
		Amigo	1,290.83	1,305.00		
		Atlas	1,338.46			
		Bacphil		1,305.00	1,320.00	
		Danat	1,300.07	1,297.50	1,298.75	
Ammosul		Harvester	1,298.33		1,298.53	
Allillosui		Swire	1,327.01	1,325.71	1,319.44	
	Japan	Harvester	1,305.83			
	Philippines	Agro Planters	1,308.31			
		Atlas	1,324.98	1,294.79		
	Taiwan	DDDD		1,286.67		
		Planters Choice			1,290.83	
		Danat	1,743.23		1,949.03	
	China	Harvester		1,880.00	1,965.00	
		Swire	1,712.46	1,767.14	1,916.84	
Complete	V	Amigo	1,759.17	1,742.92	1,939.05	
	Korea	Bacphil	1,850.00	1,876.67	2,016.88	
	DI :I: ·	Agro Planters	1,661.67	1,712.45	1,868.40	
	Philippines	Atlas	1,720.76	1,806.95	1,928.66	
		Atlas	1,479.44	1,511.67	1,799.58	
	China	Danat	1,434.26	1,521.56	1,794.99	
Ammophos		Swire	1,452.67	1,527.15	1,763.81	
•	Korea	Amigo	,	1,655.00	1,809.67	
	Philippines	Agro Planters	1,480.63	1,541.19	1,754.43	

		Amigo	1,769.58	1,789.97	2,100.99
	Canada	Atlas	1,759.51	1,785.20	2,034.32
MOP		Bacphil	1,739.75	1,805.00	2,026.25
	Japan	Harvester	1,755.21		
	Russia	Harvester	1,766.25	1,768.33	2,041.08
	China	Agro Planters			
		Amigo	2,600.00	2,635.83	2,728.13
	Cillia	Atlas	2,108.33	2,725.00	2,833.53
DAP		Planters Choice	2,625.00		
	Japan	Atlas	2,620.00		
	Philippines	Agro Planters		2,658.33	2,906.58
	Qatar	Bacphil		2,611.67	2,802.08

Appendix 20. Dealer's prices per brand of the six major fertilizer grades in REGION XIII, February to April 2022.

Grade	Country of Origin	Brand	s in REGION XIII, February to April 2022.  Monitored Dealer's Price		
			(Php)		
			Feb-22	Mar-22	Apr-22
Prilled urea	China	Atlas	2,366.80	2,455.62	2,668.35
		Danat	2,580.00		
		Planters		2,452.50	2,260.00
	Indonesia	Agro Planters	2,400.00		
		Amigo	2,583.33	2,553.75	2,722.50
		Atlas	2,366.80		
		Harvester			2,980.00
		Masagana	2,450.00		
	Japan	Atlas	2,366.80		
	Philippines	Amigo	2,533.33		
	Qatar	Viking	2,600.00	2,543.33	2,571.00
Granular urea	China	Atlas		2,522.50	2,811.04
		Harvester		2,461.67	2,780.00
		Atlas	2,650.00	2,523.13	2,769.38
		Masagana		2,447.50	2,573.33
	Indonesia	Planters	2,510.00		
	Malaysia	Swire			
		Viking			
	Qatar	Amigo		2,447.29	2,571.67
		Viking	2,540.00	2,458.33	2,491.67
Ammosul	China	Agro Planters		1,343.75	1,343.75
		Amigo	1,350.00	1,345.83	1,353.33
		Atlas	1,369.75	1,354.65	1,527.94
		Bacphil	1,350.00	1,350.00	1,350.00
		Harvester	1,300.00	1,305.00	1,416.67
		Planters	1,333.19	1,313.75	1,322.50
	Indonesia	Amigo	1,362.50	1,345.00	1,353.33
		Bacphil			
		Masagana		1,400.00	1,285.00
	Japan	Atlas	1,385.82		
	Taiwan	Atlas	1,366.75	1,361.51	1,359.35
		DDDD			
		Planters Choice		1,300.00	1,320.00

Complete	China	Agro Planters		1,705.00	1,740.00
		Amigo			1,959.58
		Atlas	1,797.50	1,819.69	1,865.02
		Harvester		1,821.67	
		Planters	1,712.50		
		Planters Choice		1,723.75	1,782.22
		Swire	1,725.00	1,831.25	
		Xian Bee			
	Japan	Atlas	1,779.65		
	Korea	Amigo	1,770.70	1,818.13	
		Planters Choice		1,805.00	
		Swire			1,881.25
		Xian Bee			1,600.00
Ammophos	China	Atlas	1,538.54	1,570.04	1,666.24
		Agro Planters		1,550.00	
		Danat Hi-Yield	1,600.00	1,622.50	1,630.00
		Planters	1,550.00	1,554.38	1,570.00
		Swire		1,496.88	1,675.00
	Japan	Atlas	1,521.16		
	Korea	Amigo	1,593.89	1,662.97	1,759.44
	Taiwan	Atlas	1,650.00		
МОР	Canada	Amigo	1,832.78	1,918.54	2,226.06
		Atlas	1,823.79	1,831.47	1,973.24
		Planters	1,750.00	1,775.00	
	China	Atlas			
		Harvester	1,900.00	1,900.00	1,900.00
		Planters Choice	1,823.33	1,820.00	1,863.13
	Japan	Atlas	1,837.38		
DAP	China	Amigo		2,643.75	2,688.38
		Atlas		2,426.25	2,425.00
		Planters Choice		2,500.00	2,525.63