



AfricaFertilizer.org



# FERTILIZER STATISTICS OVERVIEW GHANA 2016 - 2020

2021 Edition



West African Fertilizer Association  
Association Régionale  
des Professionnels de l'Engrais



A PROGRAMME OF THE AFRICAN UNION

## Outline

1. Production
2. Import
3. Export
4. Origins
5. Agric. and non-agric. use
6. NPK import analysis
7. Consumption (app)
8. Summary

## Background Information

- Overview of fertilizer statistics in Ghana from 2016 – 2020.
- Emphasis is on 2020 and each analysis is based on the products with higher quantities.
- Official trade data obtained from Ghana Statistical Service (GSS) and validated by CountrySTAT Fertilizer Technical Working Group – Ghana (FTWG-GHA).
- 2020 data validated from 1<sup>st</sup> – 5<sup>th</sup> March, 2021.

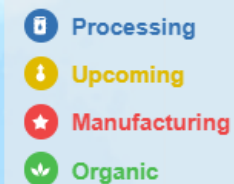
# Fertilizer Production

## GHANA

### Comments

- There is no primary production of inorganic fertilizers in Ghana.
- Fertilizers are imported in compounds and bulk. The bulk fertilizers are blended into various formulations and distributed through a network/system of distributors and retail agro-dealers.
- Six of the major importing companies, namely Yara Ghana, Chemico Limited, Louis Dreyfus Company Ghana (LDC), OmniFert, GloFert and Agricultural Manufacturing Group (AMG) have invested in blending plants that allows them to create different fertilizer formulations.
- All blending plants are located at the southern part of the country, closer to the point of entry. Yara, Chemico and AMG are located at the port city of Tema; LDC is at Kpong; OmniFert is located at Dawhenya; while GloFert is at Teacher Mantey.
- A small percentage of organic fertilizers is produced locally by ACARP, Safisana and JEKORA Ventures etc.
- Carmeuse Lime Products Gh Ltd, a lime producing company located at Takoradi started producing agric lime in 2020.

### Fertilizer Plants in Ghana



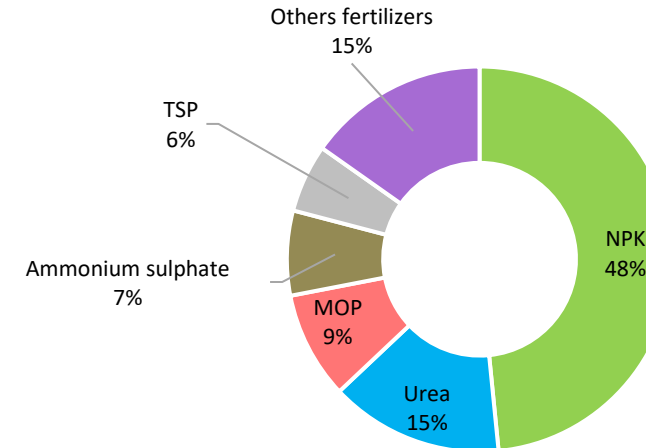
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# Fertilizer Import

# GHANA

HS Code	Fertilizer Name	2016	2017	2018	2019	2020
3105200000	NPK	132,632	213,887	224,176	217,024	299,423
3102100000	Urea	39,035	88,259	42,005	77,011	89,956
3104200000	MOP	13,842	24,235	15,993	42,235	55,611
3102210000	Ammonium sulphate	23,268	43,865	10,084	17,326	43,994
3103101000	TSP	13,802	26,766	9,460	29,300	35,268
3101000000	Organic fertilizers	8,772	37,643	5,875	4,673	270
	Others fertilizers	8,532	9,582	7,564	37,542	94,117
<b>Total (mt)</b>		<b>239,883</b>	<b>444,236</b>	<b>315,157</b>	<b>425,110</b>	<b>618,638</b>

TOP 6 IMPORTED FERTILIZERS 2020



## Comments

- Official fertilizer imports to Ghana increased by 46% from 2019 to 2020.
- 2020 fertilizer imports totaled 618,638mt and 1,399,757 liters.
- Fertilizers imported to Ghana gets to farmers through food crop subsidy (PFJ), COCOBOD subsidy for cocoa farmers or through the open market.

TOP FERTILIZER IMPORTS PER YEAR

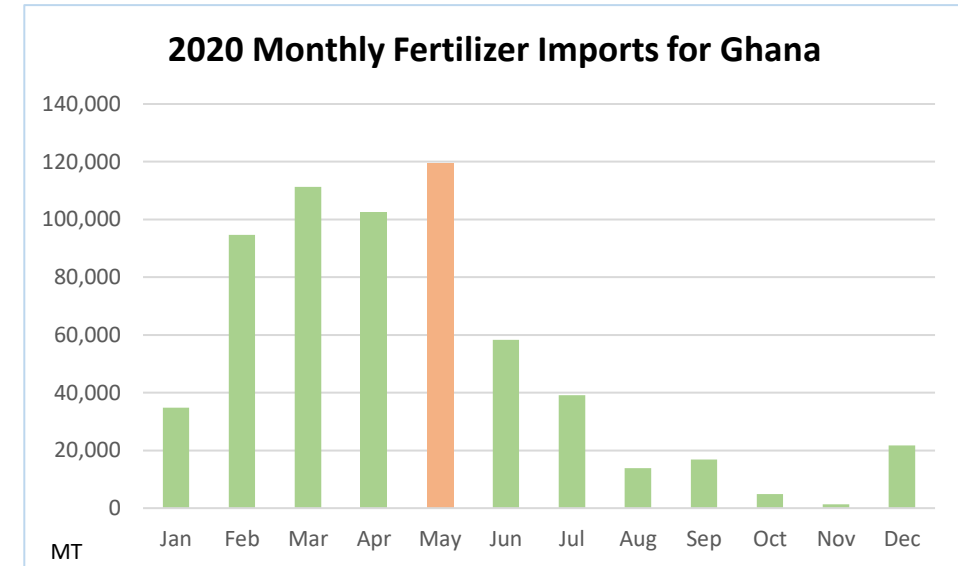


<https://vifaaghana.org/#/ghana/availability>

# Monthly Fertilizer Import

# GHANA

Quarter	2016	2017	2018	2019	2020
Q1	40,602	110,084	19,057	74,698	240,719
Q2	154,861	279,443	207,292	179,091	280,212
Q3	25,660	39,819	69,099	132,555	69,787
Q4	18,760	14,890	19,708	38,767	27,921
<b>Total (mt)</b>	<b>239,883</b>	<b>444,236</b>	<b>315,157</b>	<b>425,110</b>	<b>618,638</b>



## Comments

- In 2020, most fertilizer imports were recorded in the first half of the year.
- Fertilizer import was at its peak in May, recording 119,572mt (19% of 2020 imports).

<https://vifaaghana.org/#/ghana/availability>

## Crop Calendar

SEASON	CROPS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Major Season (Long Rains)	Cassava(1st year)				◆	◆	◆	◆	◆	◆	◆	◆	◆
	Cassava(2nd year)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Maize(North main*)						◆	◆	◆				
	Maize(South main*)			◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Sorghum & Millet					◆	◆	◆	◆	◆	◆	◆	◆
	Rice(North)					◆	◆	◆	◆	◆	◆	◆	◆
	Rice(South)				◆	◆	◆	◆	◆	◆	◆	◆	◆
	Yams	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Minor Season (Short Rains)	Cassava, Maize, Millet, Sorghum, Rice, Yams							◆	◆	◆	◆	◆	◆

Key: ◆ Fertilizer Peak Demand Sowing Growing Harvest

Source : FAO/GIEWS

# Fertilizer Export

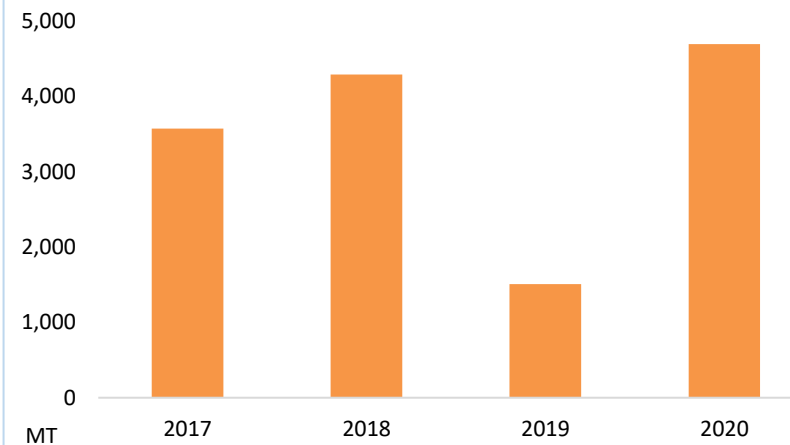
# GHANA

HS Code	Fertilizer Name	2016	2017	2018	2019	2020
3105200000	NPK		3,500	4,000	1,407	2,782
3102100000	Urea			3	90	1,576
	Other fertilizers	25	75	288	10	338
<b>Total (mt)</b>		<b>25</b>	<b>3,575</b>	<b>4,291</b>	<b>1,507</b>	<b>4,696</b>

## Comments

- Ghana does not produce inorganic fertilizers, therefore, all inorganic fertilizers leaving the country are re-exports.
- In 2020, about 4,696mt of fertilizers were re-exported mostly to Burkina Faso.
- There are unofficial exports to Burkina Faso, Togo and Cote d'Ivoire but we currently cannot estimate the volumes.

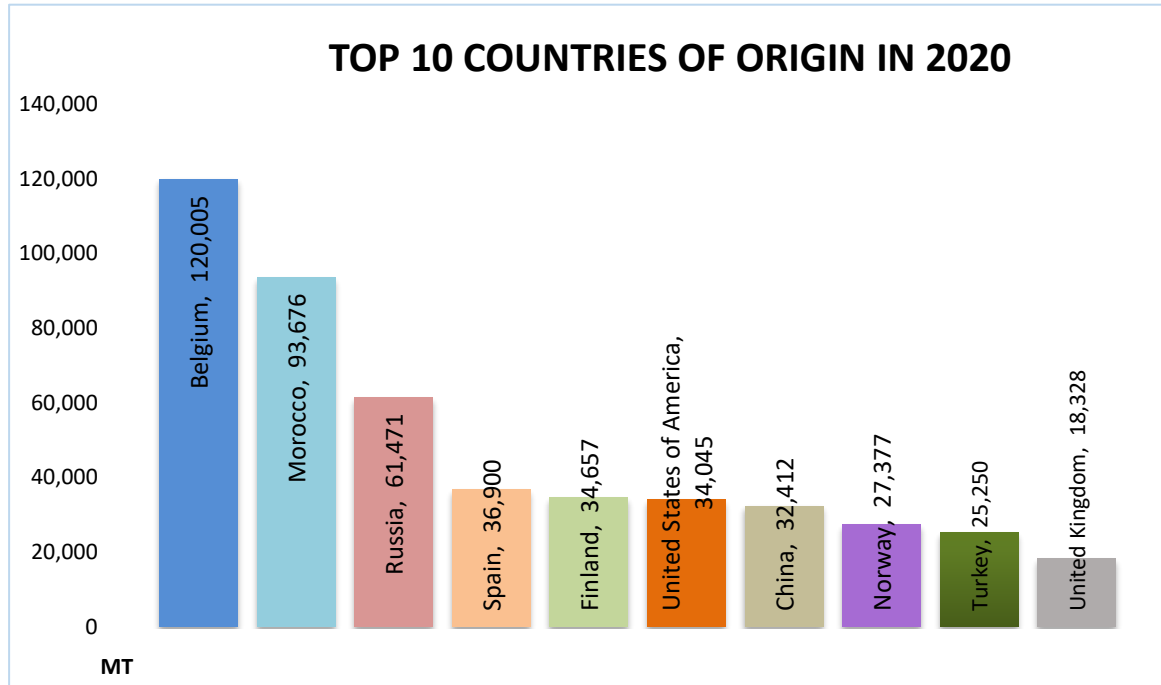
FERTILIZER EXPORT FROM GHANA PER YEAR



Urea

# Fertilizer Origins

# GHANA



Countries of Origin	Belgium	Morocco	Russia	Spain	Finland	USA	Other countries
NPK	27%	7%	4%	12%	4%	9%	36%
Urea	27%	-	22%	-	24%	-	27%
MOP	-	-	42%	-	-	-	58%
Ammonium sulphate	36%	-	11%	-	-	-	53%
TSP	-	69%	-	-	-	-	31%
Others	-	51%	2%	10%	-	7%	30%

- ❖ Other NPKs imported from Norway, Turkey, etc
- ❖ Other Urea from UK
- ❖ Other MOP from Belarus, Canada, Germany, Lithuania
- ❖ Other SoA imported from China

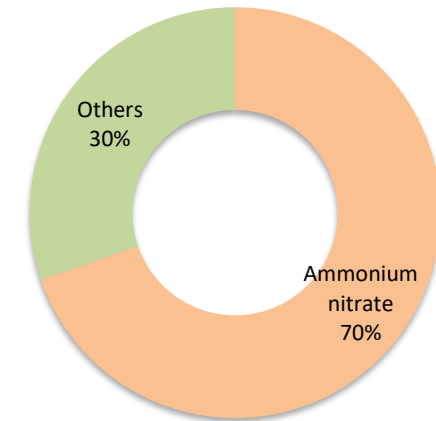
<https://vifaaghana.org/#/ghana/availability>

# Agricultural and Non-agricultural Uses

# GHANA

Usage	2016		2017		2018		2019		2020	
	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%
Agriculture	239,883	83%	444,236	86%	315,157	78%	425,110	82%	618,638	84%
Industrial/Mines	50,276	17%	73,957	14%	90,416	22%	90,286	18%	114,456	16%
<b>Total (MT)</b>	<b>290,159</b>	<b>100%</b>	<b>518,193</b>	<b>100%</b>	<b>405,573</b>	<b>100%</b>	<b>515,396</b>	<b>100%</b>	<b>733,094</b>	<b>100%</b>

2020 NON FERTILIZER USE



## Comments

- Some products can be used for both agricultural and industrial purposes depending on the importer.
- In Ghana, products like Ammonium nitrate and Sodium nitrate are imported and used by the mining industries.



# NPK Import Analysis

# GHANA

HS Code	Fertilizer Name	2016	2017	2018	2019	2020
3105200000	Total NPK	132,632	213,887	224,176	217,024	299,423
3105510000	Total NP	-	40	2	-	-
3105700000	Total NK	-	0	24	1	-
3105600000	Total PK	-	11	-	-	-
3105900000	NPK (Unknown Grade)	0	16	-	-	-
<b>Total (mt)</b>		<b>132,632</b>	<b>213,954</b>	<b>224,203</b>	<b>217,025</b>	<b>299,423</b>

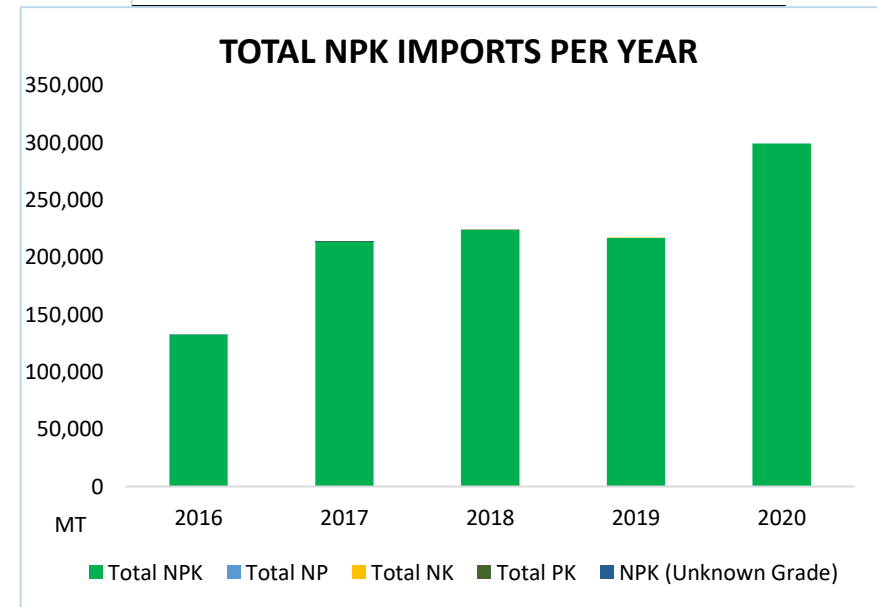
NPK Import	2020
NPK 20 10 10	52,892
NPK 20 10 10 + 3S	37,813
NPK 23 10 5	34,957
NPK 23 10 5 + 2MgO + 3 S + 0.3Zn	27,281
NPK 11 22 21 + 5S + 0.5B + 0.7Zn	21,500
NPK 27 6 6	20,000
NPK 7 20 13 + 6CaO + 5S + 5MgO + 0.4B + TE + Zn	18,907
NPK 25 10 10 + TE	18,900
NPK 27 6 6 + TE	18,000
NPK 2 23 18 + 8 CaO + 6SO3 + 6MGO + 0.5Zn + 0.5B	10,200
NPK 2 18 16	9,700
NPK 15 15 15	6,465
Other NPKs	22,808
<b>Total (mt)</b>	<b>299,423</b>



NPK Blend

## Comments

- Blending companies import Urea, TSP, DAP, MAP and MOP to blend different formulations of NPK for farmers in Ghana.
- Blenders and other major fertilizer importing companies also import finished NPK with various grades to sell directly to farmers.



# Fertilizer Apparent Consumption

# GHANA

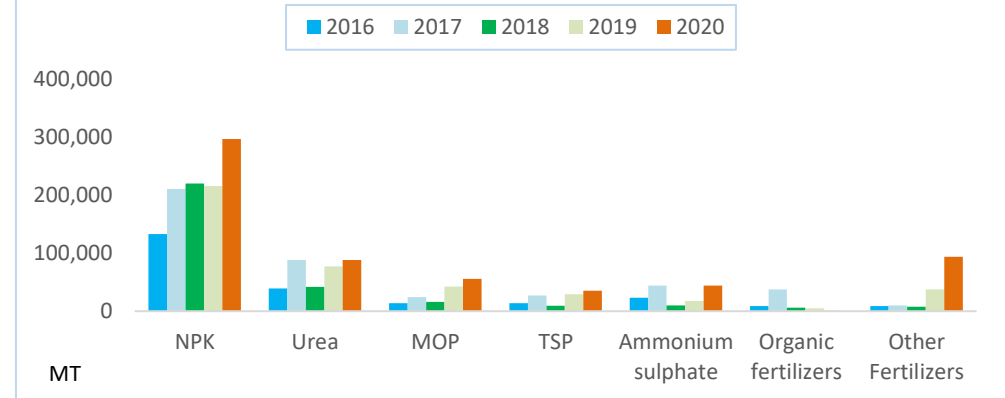
HS Code	Fertilizer Name	2016	2017	2018	2019	2020
3105200000	NPK	132,632	210,387	220,176	215,617	296,641
3102100000	Urea	39,035	88,259	42,002	76,921	88,379
3104200000	MOP	13,842	24,235	15,712	42,235	55,611
3103101000	TSP	13,802	26,766	9,460	29,300	35,268
3102210000	Ammonium sulphate	23,268	43,865	10,084	17,326	43,994
3101000000	Organic fertilizers	8,747	37,568	5,868	4,663	219
	Other Fertilizers	8,532	9,582	7,564	37,542	93,829
<b>Total (mt)</b>		<b>239,858</b>	<b>440,661</b>	<b>310,866</b>	<b>423,603</b>	<b>613,942</b>

## Comments

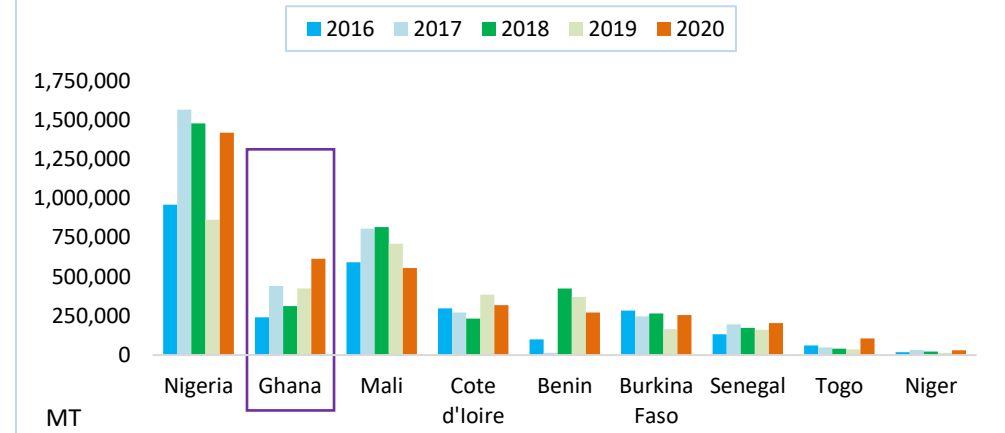
- There was a 45% increase in apparent consumption from 2019 to 2020.
- 2020 fertilizer apparent consumption was 613,942mt and 1,339,756 liters.
- Per an exercise carried out by MOFA, carryover stocks from 2020 into 2021 is estimated at 101,331mt.

NB: Apparent consumption = Production + Imports – Exports – Non Fertilizer Use

**TOP FERTILIZER APPARENT CONSUMPTION PER YEAR (2016 - 2020)**



**WA FERTILIZER APPARENT CONSUMPTION (2016 – 2020)**



<https://vifaaghana.org/#/ghana/use>

# Summary of 2020 Fertilizer Statistics

# GHANA

HS code	Product	Production	Imports Total Solid (MT)	Imports Total Liquid (Liters)	Fertilizer Exports Solid (MT)	Fertilizer Exports Liquid (Liters)	NFU Imports Solid (MT)	NFU Imports Liquid (Liters)	2020 Solid Fertilizer Imports (MT)	2020 Liquid Fertilizer Imports (liters)	2020 Apparent Consumption - Solid (MT)	2020 Apparent Consumption - Liquid (Liters)
3105200000	NPK		299,423	734,325	2,782		0		299,423	734,325	296,641	734,325
3102100000	Urea		90,025	-	1,576		69		89,956	-	88,379	-
3104200000	MOP		55,621	1			10	1	55,611	-	55,611	
3105400000	MAP		47,966	-			0		47,966	-	47,966	-
3102210000	Ammonium sulphate		44,084	-			90		43,994	-	43,994	-
3103101000	TSP		35,268	-			0		35,268	-	35,268	-
3104900000	Other potash fertilizers		10,378	72,391					10,378	72,391	10,378	72,391
3105300000	DAP		9,938	-	219		0		9,938	-	9,719	-
3103900000	Other phosphate fertilizers		9,174	-					9,174	-	9,174	-
3104300000	SOP		6,538	-			0		6,538	-	6,538	-
9999999990	Enhancers		5,098	253,697					5,098	253,697	5,098	253,697
3102900000	Other nitrogenous fertilizer		3,862	-	19				3,862	-	3,843	-
2510000000	Rock phosphate		494	-	50				494	-	444	-
2834210000	Potassium nitrate		398	-			12		386	-	386	-
3102600000	Calcium nitrate		275	-					275	-	275	-
3101000000	Organic fertilizer		270	339,335	50	10	0		270	339,335	219	339,335
3102400000	CAN		8	-					8	-	8	-
3105600000	PK fertilizer		-	8					-	8	-	8
3102300000	Ammonium nitrate		79,812	-			79,812		-	-	-	-
3102500000	Sodium nitrate		312	-			312		-	-	-	-
3103100000	SSP		0	-			0		-	-	-	-
<b>Grand Total (mt)</b>			<b>698,943</b>	<b>1,399,757</b>	<b>4,696</b>	<b>10</b>	<b>80,304</b>	<b>1</b>	<b>618,638</b>	<b>1,399,756</b>	<b>613,942</b>	<b>1,399,756</b>

\*Figures in green column represents solids (in mt) and blue represents liquids ( in liters).

\*Code 9999999990 has been introduced for Enhancers to indicate fertilizers that does not contain primary nutrients.

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# Participants of 2021 FTWG

# GHANA



The **AfricaFertilizer.org** initiative is the premier source for fertilizer statistics and information in Africa.

AFO seeks to provide clear, relevant, and opportune data and market information on fertilizers in the sub-Saharan African region, to support the implementation of continental, regional and national agricultural and more specifically fertilizer policies and regulations, and promote the growth and development of competitive markets, to the benefit of both the public and private sector, and fertilizer stakeholders globally.



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## Links

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[Ghana 2021 Fertilizer Factsheet](#)

[VIFAA Ghana Dashboard](#)