



AfricaFertilizer.org



# FERTILIZER STATISTICS OVERVIEW GHANA 2017 - 2021

2022 Edition – Version 1



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



A PROGRAMME OF THE AFRICAN UNION

## Outline

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

## Background Information

- Overview of fertilizer statistics in Nigeria from 2017 – 2021.
- Emphasis is on 2021, and each analysis is based on the products with higher quantities.
- Official trade data obtained from Ghana Statistical Service (GSS) and Customs as well as organic production data from private sector.
- Validated by Fertilizer Technical Working Group – Ghana (FTWG-GHA).
- 2021 data validated from 17<sup>th</sup> – 18<sup>th</sup> March, 2022.

# Fertilizer Production

# GHANA

## Comments

- There is no primary production of inorganic fertilizers in Ghana.
- In 2021, about 4,624mt of organic fertilizers (compost) is produced locally by ACARP, Safisana and JEKORA Ventures.
- 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, LDC and AMG are located at the port city of Tema; OmniFert is located at Dawhenya; while GloFert is at Teacher Mantey.
- Carmeuse Lime Products Gh Ltd, a lime producing company located at Takoradi started producing agric lime in 2020.

## Fertilizer Plants in Ghana



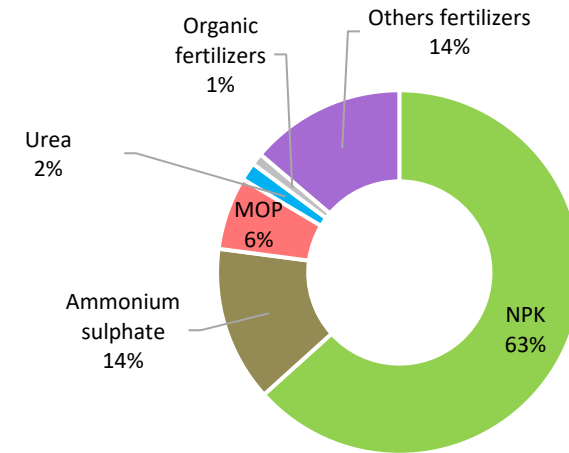
<https://vifaaghana.org/#/ghana/directory>

# Fertilizer Import

# GHANA

HS Code	Fertilizer Name	2017	2018	2019	2020	2021
3105200000	NPK	213,887	224,176	217,024	299,423	152,267
3102210000	Ammonium sulphate	43,865	10,084	17,326	43,994	32,561
3104200000	MOP	24,235	15,993	42,235	55,611	15,329
3102100000	Urea	88,259	42,005	77,011	89,956	3,800
3101000000	Organic fertilizers	37,643	5,875	4,673	270	2,495
3103101000	TSP	26,766	9,460	29,300	35,268	-
	Others fertilizers	9,582	7,564	37,542	94,117	32,610
<b>Total (mt)</b>		<b>444,236</b>	<b>315,157</b>	<b>425,110</b>	<b>618,638</b>	<b>239,062</b>

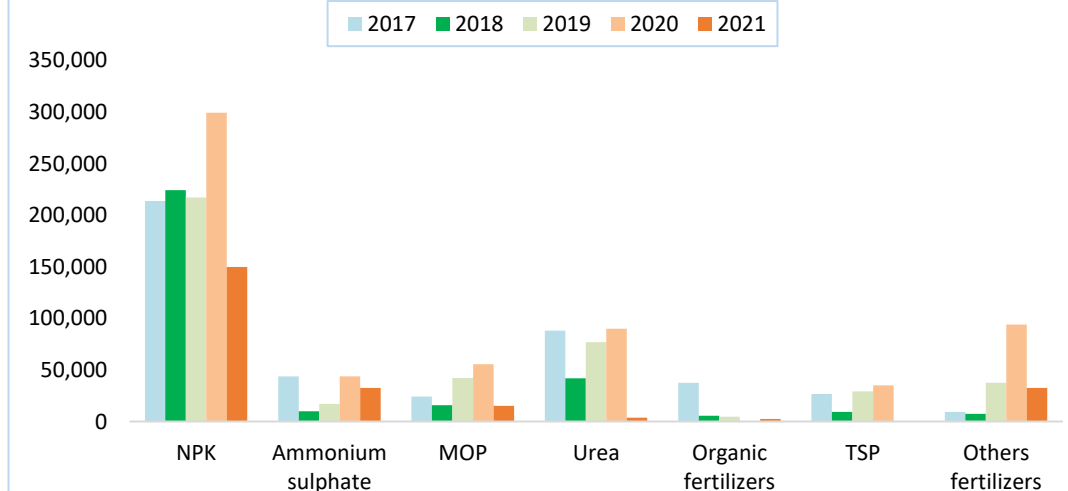
TOP 5 IMPORTED FERTILIZERS 2021



## Comments

- Official fertilizer imports to Ghana reduced by 61% from 2020 to 2021.
- Reasons for the low import volumes includes price hikes and preference of international fertilizer suppliers for more lucrative markets (large markets that pay upfront).
- About 85% of the Ghanaian market is driven by subsidy (COCOBOD and PFJ).
- COCOBOD did not run their 2021 granular subsidy and PFJ couldn't secure their intended volumes in 2021
- The private sector also waited for the international prices to drop but they never reduced.

TOP FERTILIZER IMPORTS PER YEAR

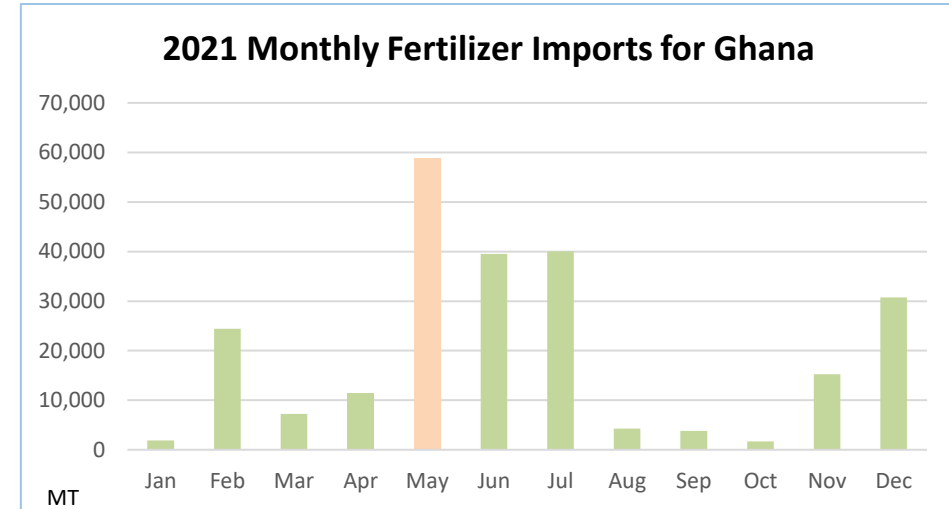


<https://vifaaghana.org/#/ghana/availability>

# Fertilizer Monthly Import

# GHANA

Quarter	2017	2018	2019	2020	2021
Q1	110,084	19,057	74,698	240,719	33,532
Q2	279,443	207,292	179,091	280,212	109,796
Q3	39,819	69,099	132,555	69,787	48,124
Q4	14,890	19,708	38,767	27,921	47,610
<b>Total (mt)</b>	<b>444,236</b>	<b>315,157</b>	<b>425,110</b>	<b>618,638</b>	<b>239,062</b>



## Comments

- In 2021, 60% of fertilizers imported were recorded in the first and second quarter.
- Fertilizer import was at its peak in May, recording 58,809mt (25% of 2021 imports).
- Looking at the crop calendar, fertilizer peak demand is mostly at the first half of the year.

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

## Crop Calendar

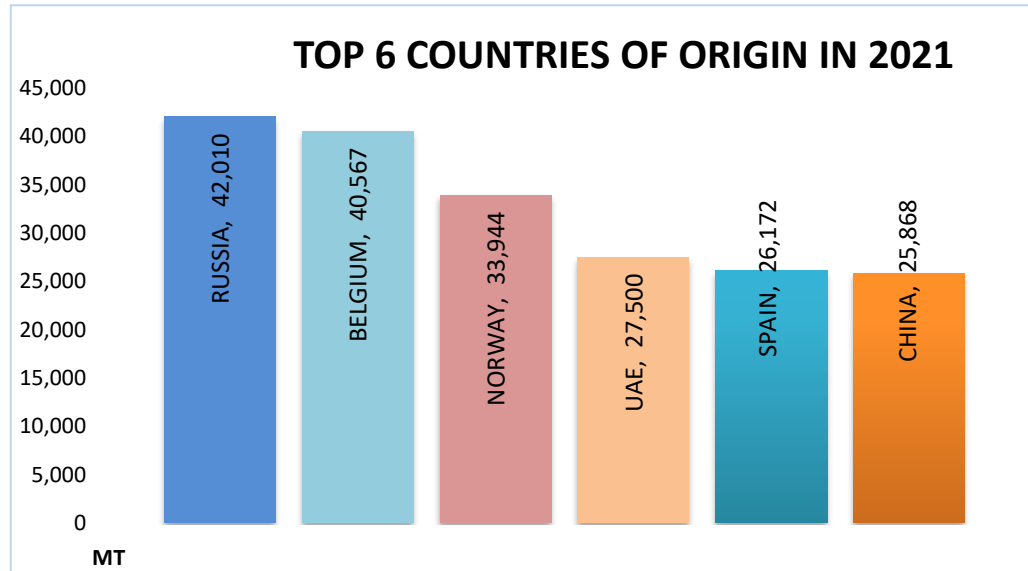
SEASON	CROPS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Major Season (Long Rains)	Cassava(1st year)				◆	◆	◆	◆	◆	◆	◆	◆	◆
	Cassava(2nd year)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Maize(North main*)						◆	◆	◆	◆	◆	◆	◆
	Maize(South main*)			◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Sorghum & Millet					◆	◆	◆	◆	◆	◆	◆	◆
	Rice(North)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

Key: ◆ Fertilizer Peak Demand     Sowing     Growing     Harves

Source : FAO/GIEWS

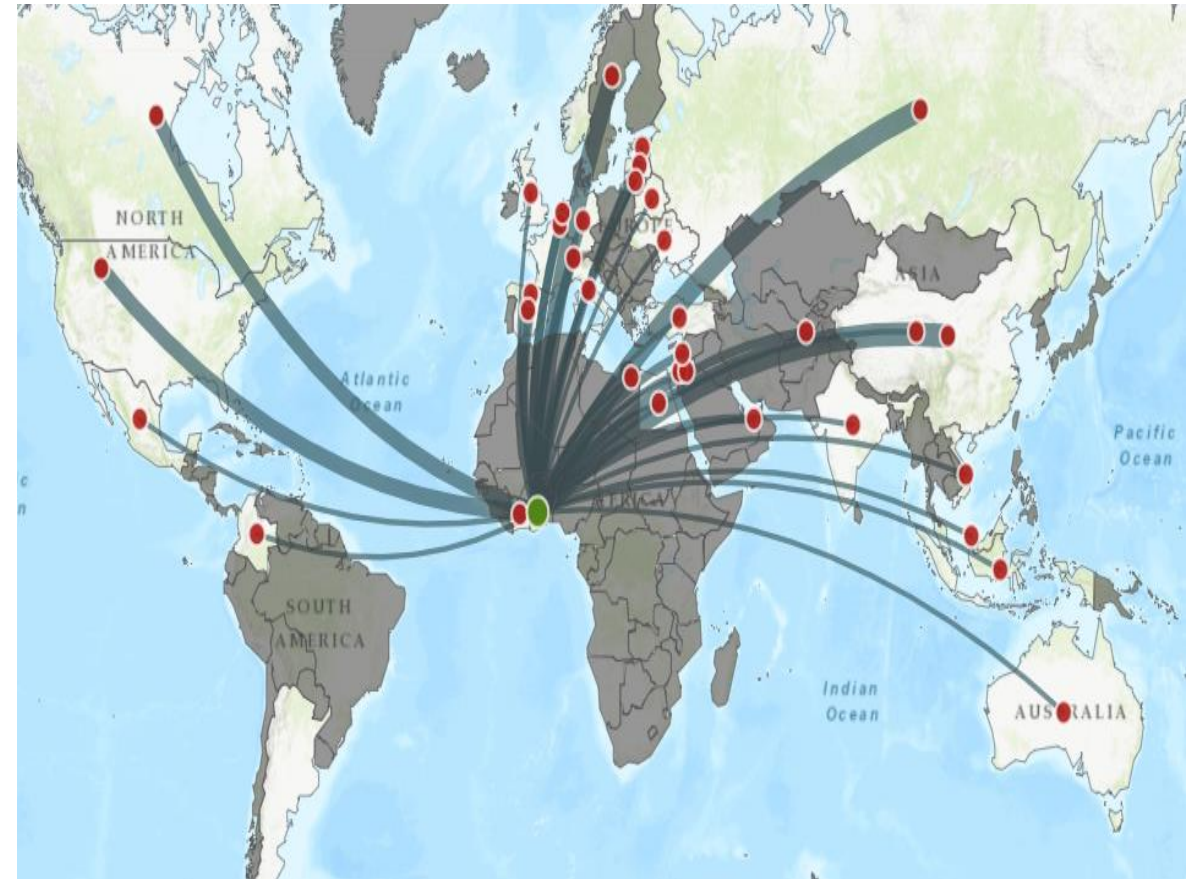
# Fertilizer Origins

# GHANA



Countries of Origin	Russia	Belgium	Norway	UAE	Other countries
NPK	21%	25%	22%	18%	15%
Ammonium sulphate	-	7%	-	-	93%
MOP	5%	-	-	-	95%
Urea	-	-	-	-	100%
Others	28%	1%	2%	0%	69%

Most SoA imported from China  
 Most MOP imported from Canada  
 Most Urea imported from Latvia



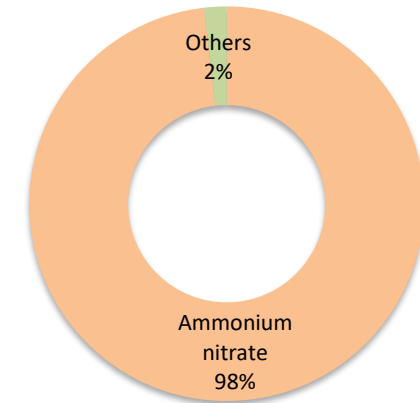
<https://vifaaghana.org/#/ghana/availability>

# Agricultural and Non-agricultural Uses

# GHANA

Usage	2017		2018		2019		2020		2021	
	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%
Agriculture	444,236	86%	315,157	78%	425,110	82%	618,638	84%	239,062	72%
Industrial/Mines	73,957	14%	90,416	22%	90,286	18%	114,456	16%	92,618	28%
<b>Total (MT)</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>	<b>331,680</b>	<b>100%</b>

## 2021 NON FERTILIZER USE



### Comments

- Some products can be used for both agricultural and industrial purposes depending on the importer. Imports that are not used for agricultural purposes are captured as non-Agricultural use even if they are fertilizers
- Above is a table that shows the product usage between agricultural use and non-agricultural use over the years.
- Averagely 20% of the fertilizer products imported are used for industrial purposes.

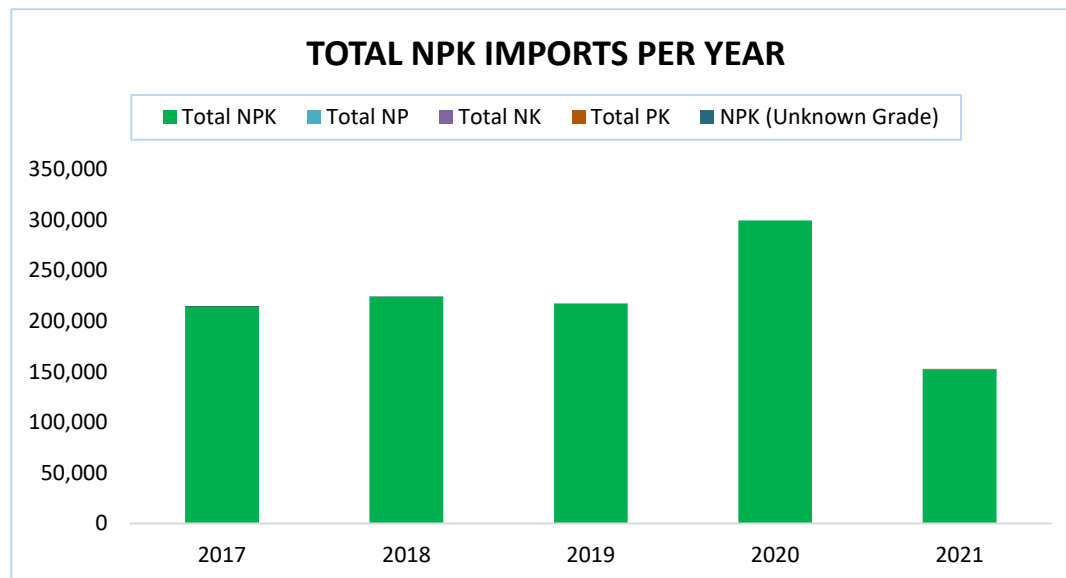


# NPK Import Analysis

# GHANA

HS Code	Fertilizer Name	2017	2018	2019	2020	2021
3105200000	Total NPK	213,887	224,176	217,024	299,423	152,267
3105510000	Total NP	40	2	-	-	-
3105700000	Total NK	0	24	1	-	88
3105600000	Total PK	11	-	-	-	15
3105900000	NPK (Unknown Grade)	16	-	-	-	-
<b>Total (mt)</b>		<b>213,954</b>	<b>224,203</b>	<b>217,025</b>	<b>299,423</b>	<b>152,369</b>

NPK Import	2021
NPK 20-10-10 + 3S	44,800
NPK 23-10-5 + 2MgO + 3S + 0.3Zn	36,633
NPK 21-5-5	22,475
NPK 22-5-5	15,000
NPK 15-15-15	12,895
NPK 20-10-10	7,753
NPK unspecified	12,813
<b>Total (mt)</b>	<b>152,369</b>



## 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.
- Above table represents the breakdown of NPK compounds that was imported to Ghana in 2021.



NPK Blend



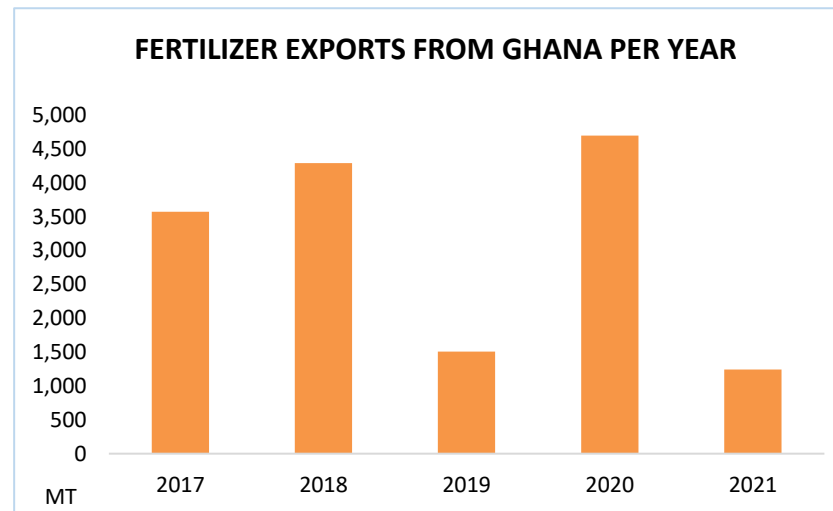
# Fertilizer Re-Exports

# GHANA

HS Code	Fertilizer Name	2017	2018	2019	2020	2021
3105200000	NPK	3,500	4,000	1,407	2,782	574
3102100000	Urea		3	90	1,576	349
	Other fertilizers	75	288	10	338	321
<b>Total (mt)</b>		<b>3,575</b>	<b>4,291</b>	<b>1,507</b>	<b>4,696</b>	<b>1,244</b>

## Comments

- Ghana does not produce inorganic fertilizers, therefore, all inorganic fertilizers leaving the country has been brought in and either blended or sent out in its natural form it entered the country.
- In 2021, about 1,244mt of fertilizers were re-exported mostly to Burkina Faso.
- There are unofficial exports to Burkina Faso, Togo and Cote d'Ivoire but we currently do not have the estimated volumes.



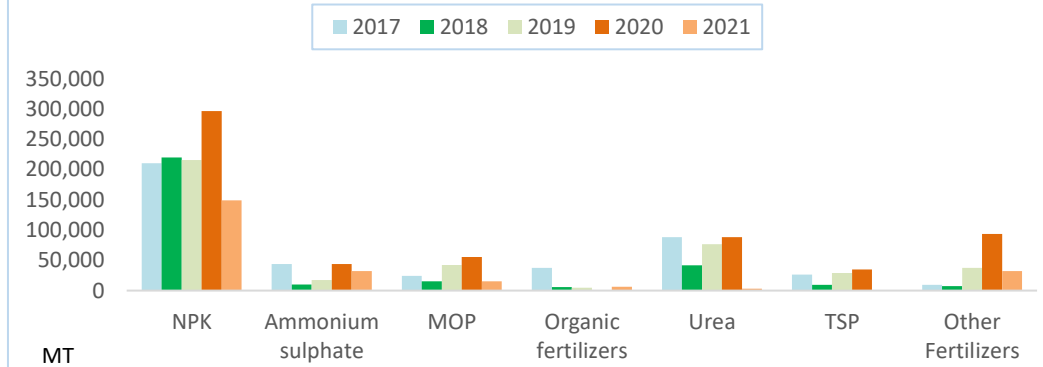
Urea

# Fertilizer Apparent Consumption

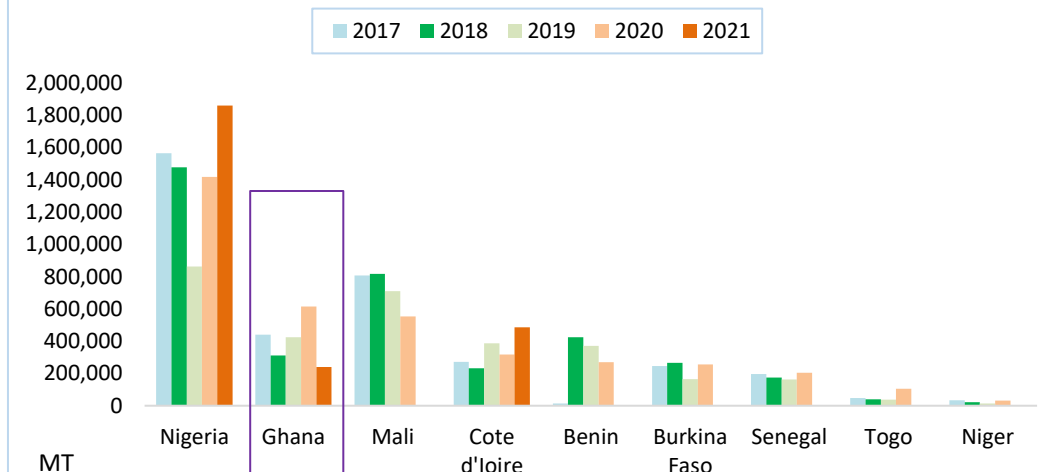
# GHANA

HS Code	Fertilizer Name	2017	2018	2019	2020	2021
3105200000	NPK	210,387	220,176	215,617	296,641	151,693
3102210000	Ammonium sulphate	43,865	10,084	17,326	43,994	32,561
3104200000	MOP	24,235	15,712	42,235	55,611	15,329
3101000000	Organic fertilizers	37,568	5,868	4,663	219	6,692
3102100000	Urea	88,259	42,002	76,921	88,379	3,451
3103101000	TSP	26,766	9,460	29,300	35,268	-
	Other Fertilizers	9,582	7,564	37,542	93,829	32,607
<b>Total (mt)</b>		<b>440,661</b>	<b>310,866</b>	<b>423,603</b>	<b>613,942</b>	<b>242,334</b>

**TOP FERTILIZER APPARENT CONSUMPTION PER YEAR (2017 - 2021)**



**WA FERTILIZER APPARENT CONSUMPTION IN 2017 - 2021**



## Comments

- There was a 61% decrease in both fertilizer import and apparent consumption from 2020 to 2021.
- Reduction in fertilizer imports also affected the apparent consumption in 2021.
- Although few fertilizers were imported into the country, some of the fertilizers were smuggled to neighbouring countries.

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

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

# Summary of 2021 Fertilizer Statistics

# GHANA

HS Code	Product Name	Production	Production Carryover	Total Import	Industrial Use	Export	Fertilizer Import	2021 Apparent Consumption
3105200000	NPK			152,267		574	152,267	151,693
3102210000	Ammonium sulphate			32,723	162		32,561	32,561
3104200000	Muriate of Potash			16,174	845		15,329	15,329
3103100000	SSP			11,000			11,000	11,000
3102400000	Calcium Ammonium Nitrate			10,000			10,000	10,000
3101000000	Organic Fertilizer	4,624	408	2,495		18	2,495	6,692
9999999990	Enhancers/Biostimulants			4,981		3	4,981	4,978
3102900000	Other Nitrogen Fertilizer			4,431	0		4,431	4,431
3102100000	Urea			4,077	277	349	3,800	3,451
3102600000	Calcium nitrate			826	24		802	802
2510000000	Phosphate Rock			434			434	434
2834210000	Potassium Nitrate			292			292	292
3104900000	Other Potash fertilizer			264			264	264
3104300000	Sulphate of Potash			196	0		196	196
3103900000	Other Phosphate Fertilizer			108			108	108
3105700000	NK Fertilizer			88			88	88
3105600000	PK Fertilizer			15			15	15
3105400000	Monoammonium Phosphate			0			0	0
3102300000	Ammonium nitrate			90,925	90,925		-	-
3102500000	Sodium nitrate			381	381		-	-
3105300000	Diammonium Phosphate			3	3	300	-	(300)
<b>Total (mt)</b>		<b>4,624</b>	<b>408</b>	<b>331,680</b>	<b>92,618</b>	<b>1,244</b>	<b>239,062</b>	<b>242,334</b>

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# GHANA

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# Participants of 2022 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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