



FERTILIZER STATISTICS OVERVIEW

GHANA

2020 - 2024

2025 EDITION



Food and Agriculture
Organization of the
United Nations



Outline

1. Production
2. Import
3. NPK Import Analysis
4. Monthly Imports
5. Origins
6. Export
7. Consumption (app)
8. Summary

Background Information

- Overview of fertilizer statistics in Ghana from 2020 – 2024.
- Emphasis is on 2024, and each analysis is based on the products with higher quantities.
- Official trade data obtained from Ghana Revenue Authority – Customs Division, Ghana Statistical Service as well as organic production data from private sector.
- Validated by Fertilizer Technical Working Group – Ghana (FTWG-GHA).
- 2024 data validated from 19th – 20th August 2025.

Fertilizer Production

Comments

- There is currently no primary production of inorganic fertilizers in Ghana. However, a few companies—including ACARP, IRECOP Holdings, Safisana, and JEKORA Ventures—produce organic fertilizers (compost) commercially.
- At the time of analyzing and validating 2024 statistics, data from only two companies were available to the Fertilizer Technical Working Group (FTWG). Local organic fertilizer production in 2024 was estimated at 7,883 MT, with a carryover of 3,322 MT from 2023.
- Fertilizers in Ghana are mainly imported as compound/blended products (e.g., NPK) or straight/raw fertilizers (e.g., urea, DAP, MOP). The straight/raw fertilizers are typically blended locally into various formulations before being distributed through networks of distributors and retail agro-dealers.
- Seven major fertilizer importers; Yara, Chemico Ltd., Solevo, OmniFert, GloFert, Best Fertilizer, and Agricultural Manufacturing Group (AMG), have invested in blending plants to offer diverse fertilizer formulations. Inness Agriculture Ltd was established as the eighth blender in 2025.
- Yara, Chemico, Solevo, and AMG are located in the port city of Tema; OmniFert in Dawhenya; GloFert in Teacher Mantey, about 72 km from the port; Inness Agriculture Ltd in Shai Hills, about 31 km from the port; and Best Fertilizer in Asankare, in the middle belt of the country.
- Additionally, Carmeuse Lime Products Ghana Ltd., located in Takoradi, began producing agricultural lime in 2020.

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Fertilizer Plants in Ghana



<https://africafertilizer.org/#/en/resources/plant-directory/>

Fertilizer Import

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HS Code	Fertilizer Name	2020	2021	2022	2023	2024
3105200000	NPK	299,423	152,267	272,106	122,179	297,851
3102100000	Urea	89,956	3,800	24,505	49,933	66,132
3102210000	Ammonium Sulphate	43,994	32,561	77,737	29,652	56,030
3104200000	MOP	55,611	15,329	10,941	21,001	33,986
3103101000	TSP	35,268	-	21,900	17,494	23,382
3102400000	CAN	8	10,000	14,969	21,897	21,396
3101000000	Organic Fertilizers	270	2,495	1,877	1,471	4,314
	Other Fertilizers	94,109	22,610	62,167	28,721	51,366
Total (MT)		618,638	239,062	486,203	292,349	554,457

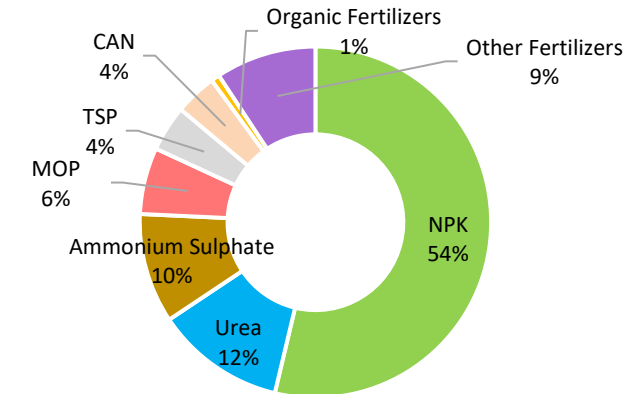
Comments

- Between 2023 and 2024, Ghana's fertilizer imports showed a strong supply flows across most product categories.
- Imports increased by 89.7% in 2024 from 2023, and by 14.1% compared to 2022. NPK and Urea together accounted for 65.6% of total imports

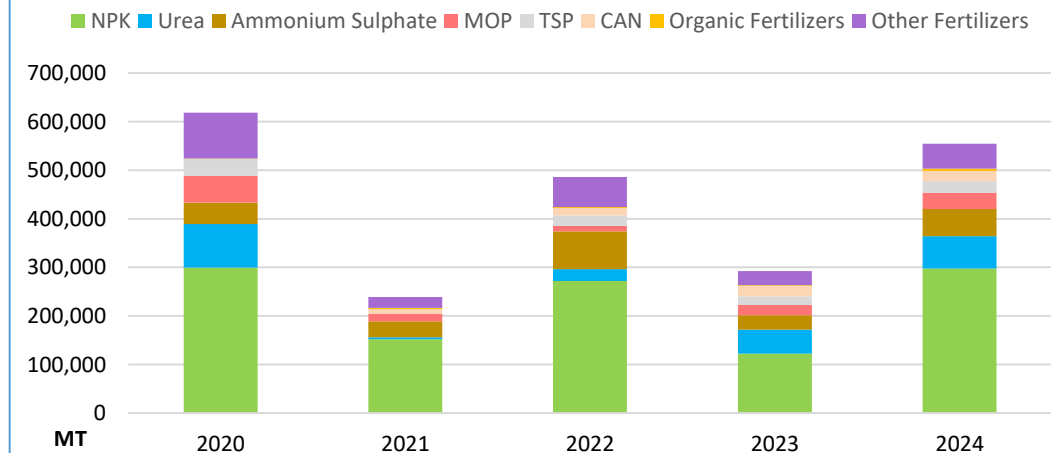
Reasons

- In 2024, government procurement of fertilizers to support vulnerable farmers impacted on the volume of import. Additionally, government programs in the fertilizer sector over the years have positively boosted the rate of adoption among smallholder farmers. Lower global prices in the year as well as favorable re-export opportunities to neighboring countries may have contributed to the increased volume of import.

TOP IMPORTED FERTILIZERS 2024

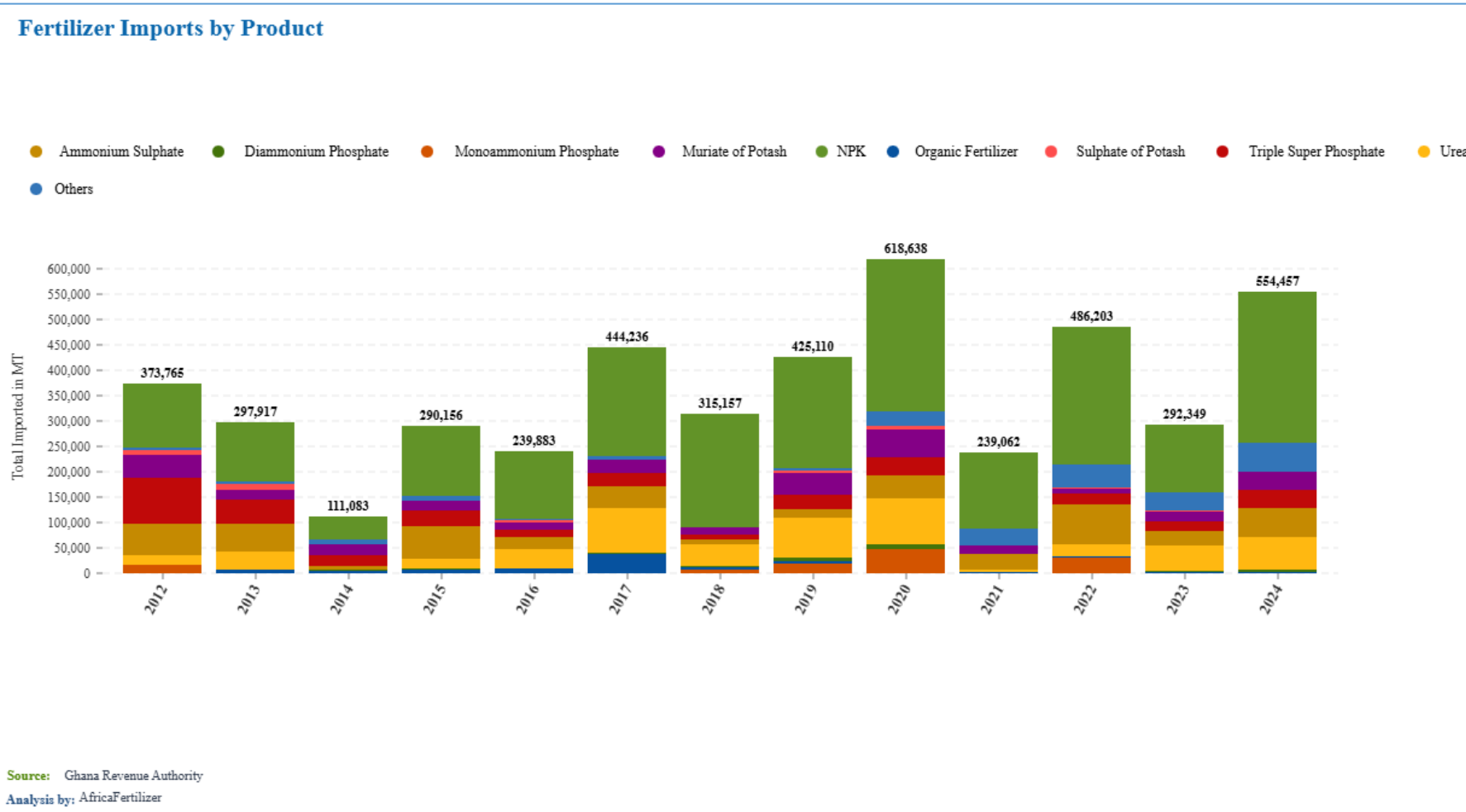


TOP FERTILIZER IMPORTS PER YEAR



Fertilizer Import on the Dashboard

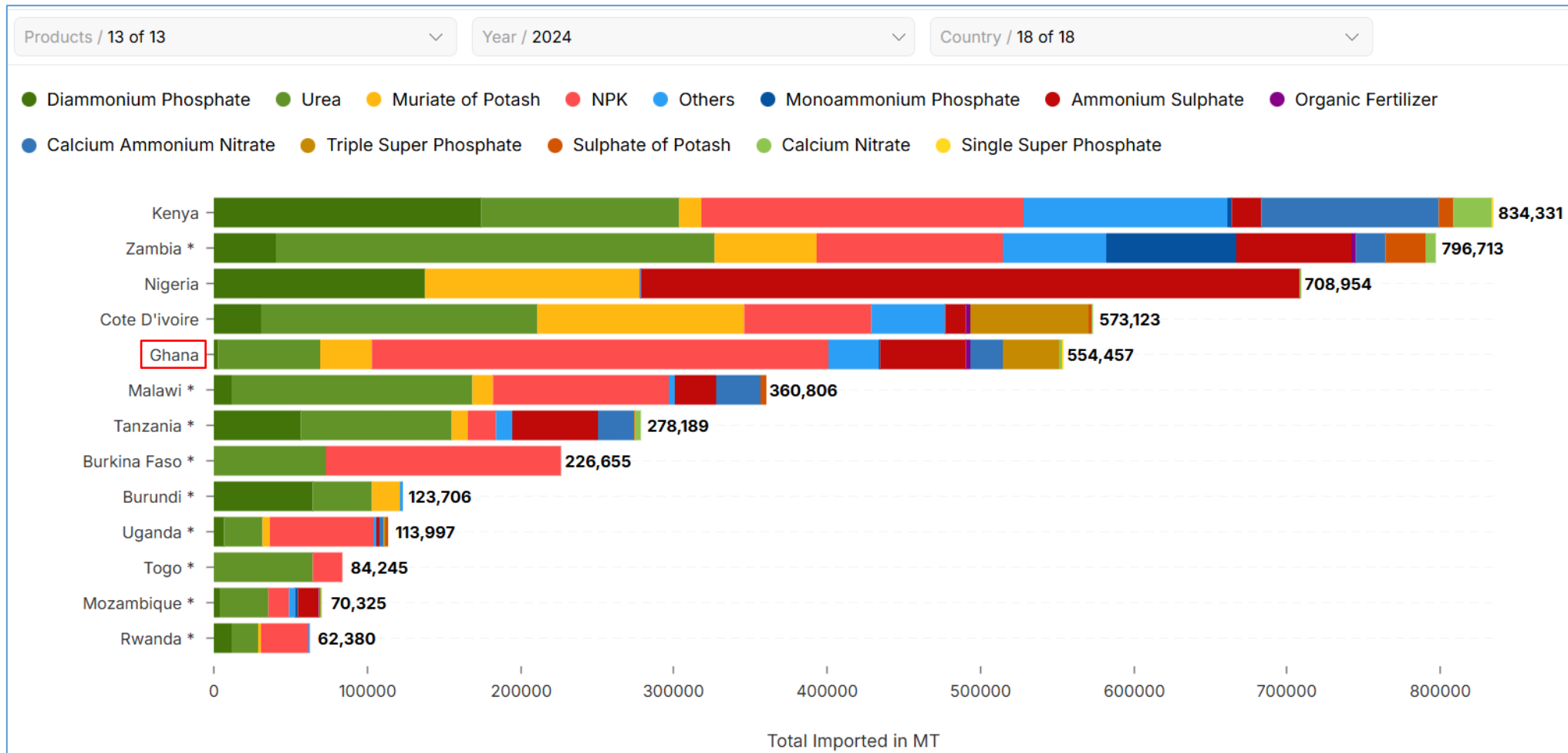
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<https://viz.africafertilizer.org/#/ghana/availability>

2024 Fertilizer Import by Country

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- Graph as of September 17, 2025.
- Countries with (*) data incomplete or yet to be validated.

Total NPK Import Analysis

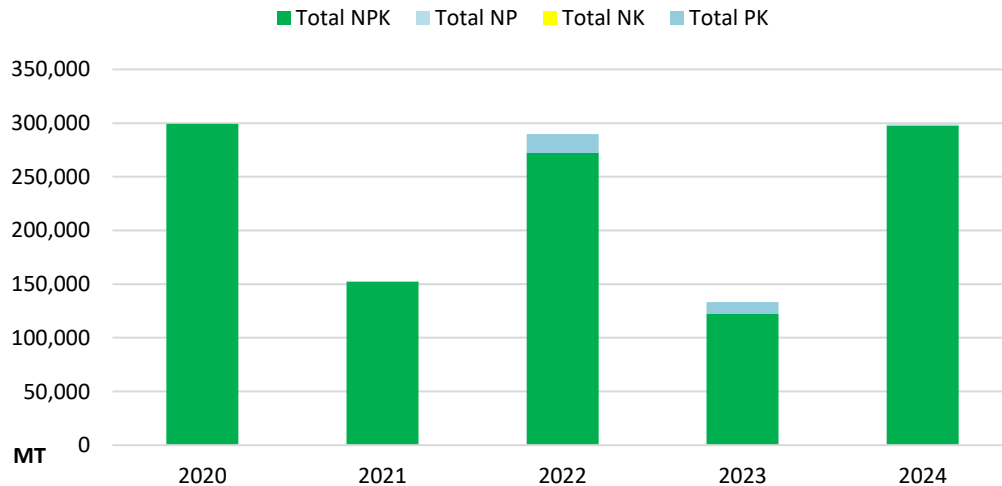
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HS Code	Fertilizer Name	2020	2021	2022	2023	2024
3105200000	Total NPK	299,423	152,267	272,106	122,179	297,851
3105510000	Total NP	-	-	150	4	420
3105700000	Total NK	-	88	2	26	-
3105600000	Total PK	-	15	17,500	11,101	264
Total (MT)		299,423	152,369	289,759	133,310	298,535



NPK Blend

TOTAL NPK IMPORTS PER YEAR



NPK, NP, NK, PK Import	2024	Major Crops
NPK 23-10-5	71,150	Maize, rice, wheat, sorghum, millet, cassava and yam
NPK 20-10-10	41,500	maize and rice, vegetables, cassava and yam
NPK 20-10-10 + 7SO3	38,417	maize and rice, vegetables, cassava and yam
NPK 15-15-15	27,442	Soybean, Groundnut, Cowpea, vegetables
NPK 2-18-16 + TE	25,000	soybeans, groundnuts, cocoa etc
NPK 23-10-5 + 3S	19,365	Maize, rice, wheat, sorghum, millet, cassava and yam
NPK 27-6-6	12,000	maize
NPK 20-10-10 + 3SO3	11,605	maize and rice, vegetables, cassava and yam
NPK 10-20-10	11,000	tomato and onion
NPK 21-10-10	9,619	
NPK 23-10-5 + 6SO3	8,750	Maize, rice, wheat, sorghum, millet, cassava and yam
NPK 5-20-18 + TE	7,201	
Others	15,486	
Total (MT)	298,535	

*Total includes NPK, NP, NK and PK

Comments

The tables above outline the importation of NPK compounds (including NPK, NP, NK, and PK) into Ghana in 2024.

- Blenders source raw materials such as Urea, TSP, DAP, MAP, and MOP to formulate various NPK formulations for farmers, though detailed information on the types and volumes of these blends is not currently available.
- Blenders and other importing companies bring in finished NPK products in different grades for direct distribution to farmers
- About 54% of 2024 imports consisted of compound NPK fertilizers for direct application.
- For 2024, the leading NPK formulations were 23-10-5 and 20-10-10, together accounting for 64% of imports.
- Specialized blends with Sulphur and trace elements (e.g., 20-10-10 + SO₃, 23-10-5 + 3S, 2-18-16 + TE) highlight Ghana's shift towards crop-specific formulations.

Fertilizer Monthly Import

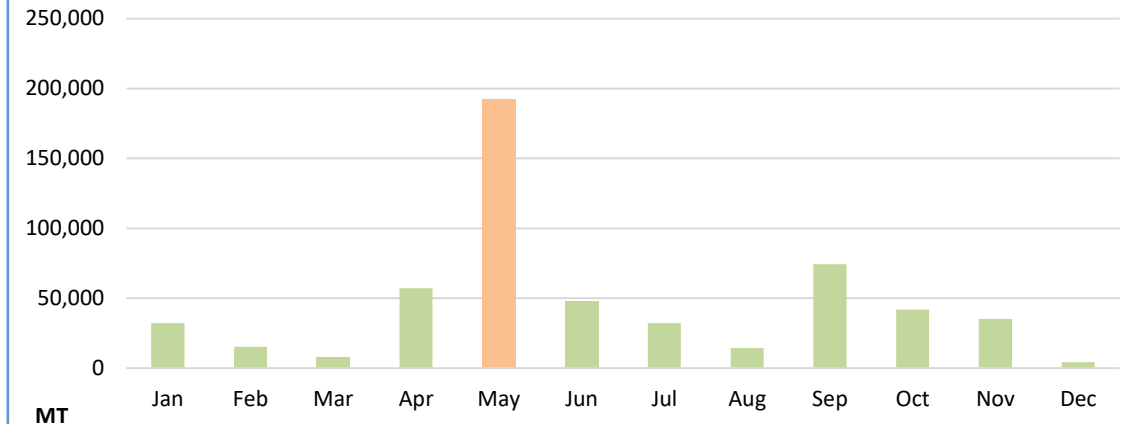
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Quarter	2020	2021	2022	2023	2024
Q1	240,719	33,532	206,723	88,485	55,019
Q2	280,212	109,796	170,627	137,761	297,458
Q3	69,787	48,124	103,386	34,109	120,789
Q4	27,921	47,610	5,468	31,994	81,191
Total (MT)	618,638	239,062	486,203	292,349	554,457

Comments

- Q2 (Apr–Jun 2024) was the peak quarter, contributing 54% of annual imports, with May 2024 (192,430 MT) as the single highest month.
- Q3 and Q4 of 2024 showed remarkable fertilizer imports compared to 2023, especially September (74,210 MT) and October (41,897 MT).
- Q1 of 2024 lagged behind Q1 of 2023, highlighting a late start to import fertilizers in 2024 before peaking sharply from April onward.
- Considering the crop calendar, peak demand for fertilizer is mainly in the first half of the year. It is therefore important that fertilizers are available on the domestic market from the first quarter of every year.

2024 MONTHLY FERTILIZER IMPORTS TO GHANA



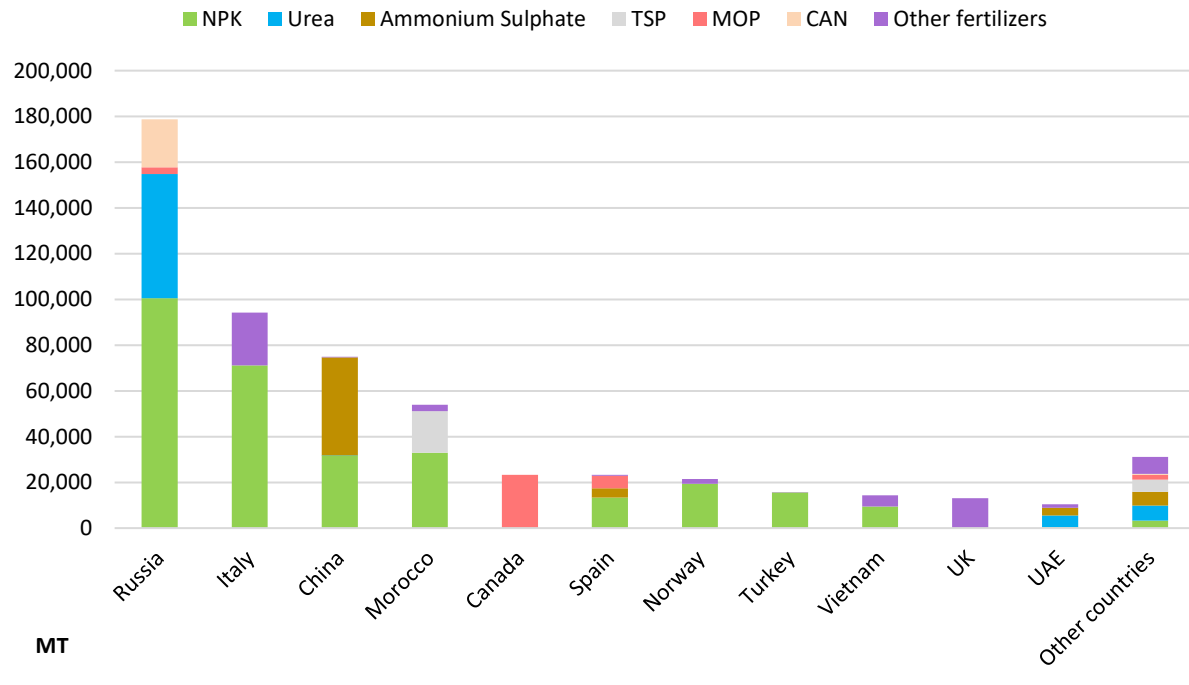
Crop Calendar

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

GHANA'S FERTILIZER IMPORT SOURCES IN 2024



<https://viz.africafertilizer.org/#/ghana/availability>

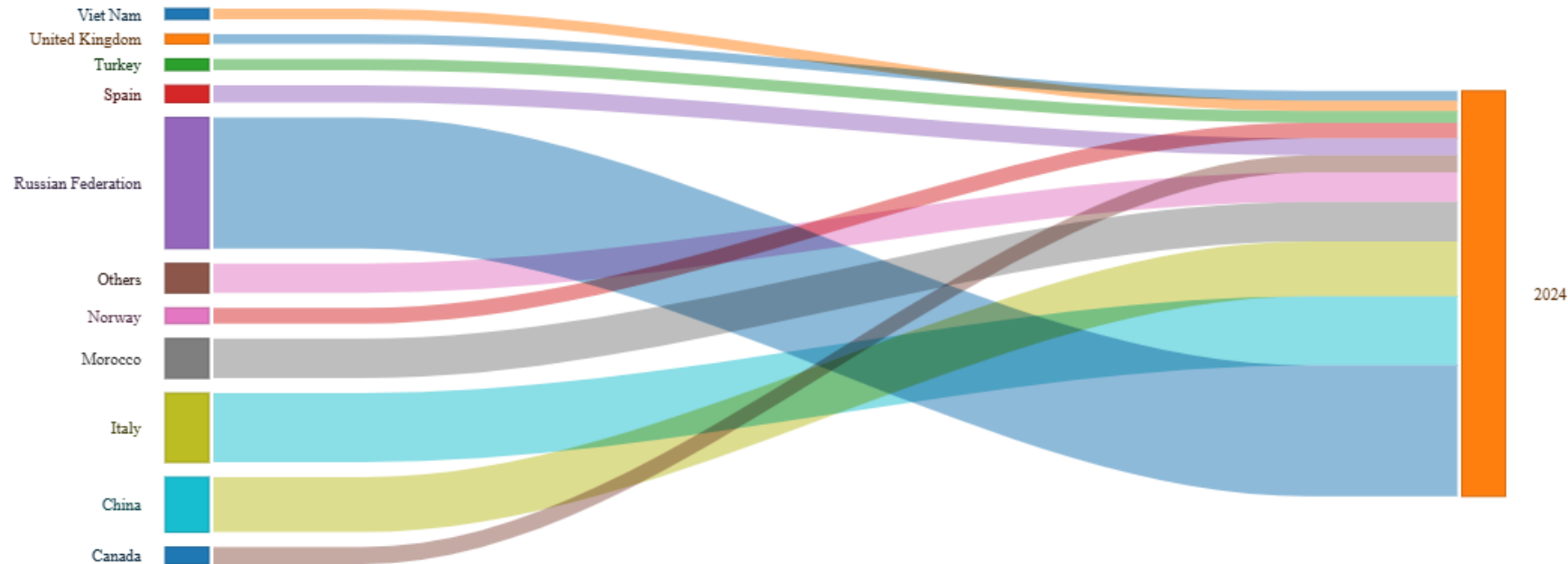
Comments

- In 2024, about 94% of fertilizers imported into Ghana were sourced from 11 countries.
- Russia accounted for the largest share of Ghana's fertilizer imports in 2024 with 32% (178,754 MT) as against 7% (21,751 MT) in 2023, 9% (42,163 MT) in 2022 and 18% (42,010 MT) in 2021. , driven mainly by Urea, CAN, and NPK supplies.
- Italy followed with 17% (94,161 MT), almost entirely NPK, making it the second-largest supplier.
- China ranked third with 14% (74,885 MT), dominated by Ammonium Sulphate and NPK imports.
- Morocco was fourth with 10% (53,952 MT), contributing mostly TSP and NPK.
- Canada ranked fifth, driven mainly by MOP, which accounted for about 4% (23,311 MT) of total fertilizer imports. Other countries collectively contributed 23% (129,394 MT), supplying mixed fertilizers including SOP, DAP and Calcium Nitrate.
- This highlights a strong reliance on Russia for nitrogen fertilizers and NPK, Italy and China for NPK and Ammonium Sulphate, Morocco for phosphate-based fertilizers, and Canada for potash fertilizers.

2024 Fertilizer Origins on Dashboard

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Imports by Country of Origin and Year



Source: AfricaFertilizer, Ghana Revenue Authority

Fertilizer Total Exports

HS Code	Fertilizer Name	2020	2021	2022	2023	2024
3105200000	NPK	2,782	574	26,415	12,331	28,573
3102100000	Urea	1,576	349	81	-	1,550
3105300000	DAP	219	300	4,653	320	-
	Other Fertilizers	119	21	773	49	273
Total (MT)		4,696	1,244	31,922	12,700	30,396

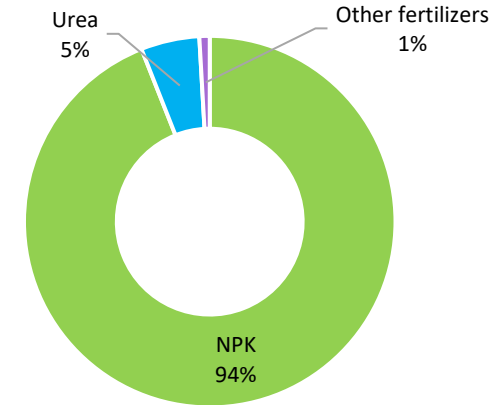
Comments

- Ghana does not produce inorganic fertilizers; hence, all such fertilizers exported from the country are either imported and re-exported in their original form or blended locally before being shipped out.
- In 2024, total fertilizer exports surged to 30,396 MT, more than doubling the 12,700 MT recorded in 2023, representing a 139% year-on-year increase.
- About 30,103 MT (99% of exports) were destined for neighbouring Burkina Faso, comprising 28,553 MT of NPK (formulations 14-18-18 + TE and 14-23-14 + TE) and 1,550 MT of urea..
- Favorable exchange rates boosted Ghana's price competitiveness for buyers from Burkina Faso.

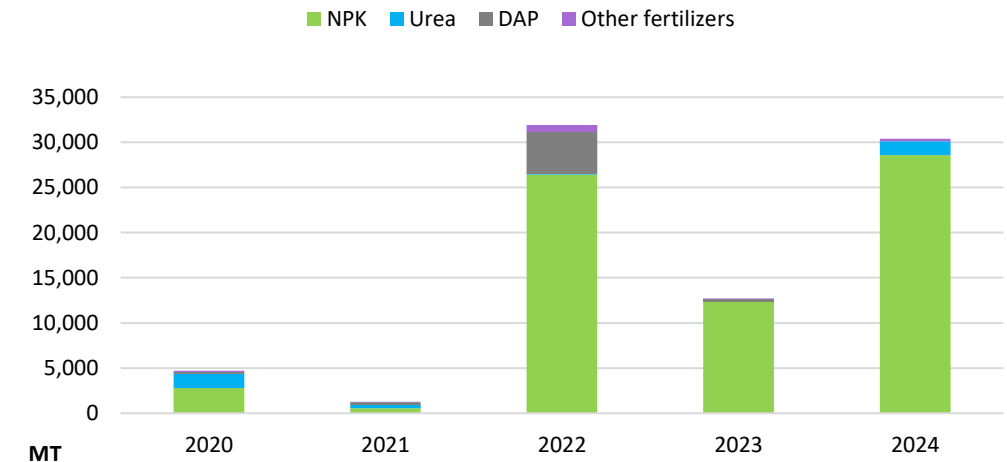
Total Exports include fertilizers manufactured locally or imported and then blended or processed locally before being sent to other countries (**exports**), as well as those that are imported and later sent to other countries in the same form (**re-exports**).

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2024 FERTILIZER EXPORT



TOP FERTILIZERS EXPORTED PER YEAR



Fertilizer Apparent Consumption

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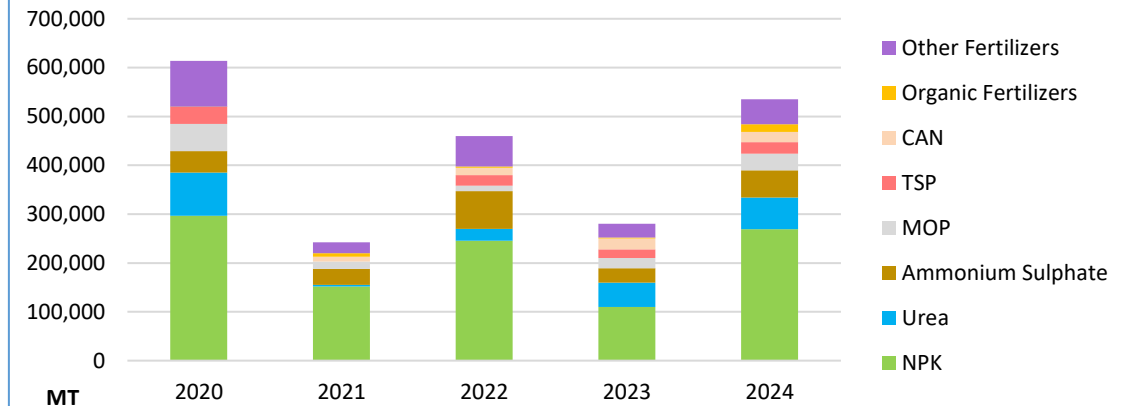
HS Code	Fertilizer Name	2020	2021	2022	2023	2024
3105200000	NPK	296,641	151,693	245,691	109,848	269,278
3102100000	Urea	88,379	3,451	24,424	49,933	64,582
3102210000	Ammonium Sulphate	43,994	32,561	77,082	29,652	56,030
3104200000	MOP	55,611	15,329	10,941	21,001	33,986
3103101000	TSP	35,268	-	21,885	17,486	23,360
3102400000	CAN	8	10,000	14,969	21,897	21,396
3101000000	Organic Fertilizers	219	6,692	2,432	2,261	15,112
	Other Fertilizers	93,820	22,607	62,093	28,401	51,521
Total (MT)		613,942	242,334	459,518	280,479	535,266

Comments

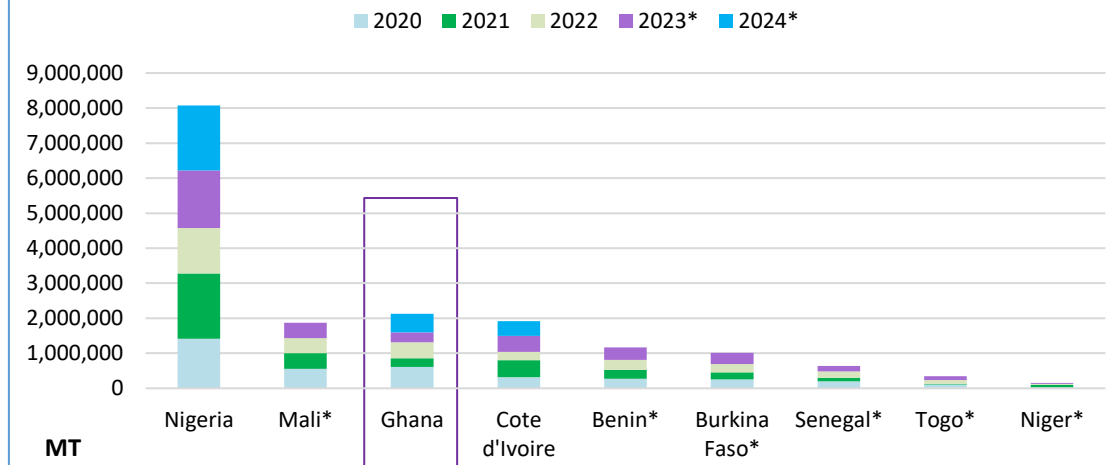
- Ghana's total apparent fertilizer consumption rose sharply to 535,266 MT in 2024, representing a 91% increase from 280,479 MT in 2023.
- This growth was largely driven by government interventions and support programs, particularly targeted at farmers affected by floods in the south and prolonged dry spells in the north.
- Furthermore, growing awareness of the benefits of fertilizer use has further boosted adoption among smallholder farmers.
- Additionally, the reported volume could have been even higher if data on carry-over stocks from importers had been available.

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

FERTILIZER APPARENT CONSUMPTION PER YEAR



APPARENT FERTILIZER CONSUMPTION IN WEST AFRICA (2020 - 2024)



- Graph as of September 17, 2025.
- Countries marked with (*) indicate that 2024 data is incomplete or yet to be validated.

Major Reasons for the Increase in Import and Consumption Figures

- **Government interventions:** Fertilizer imports and consumption in 2024 increased significantly compared to 2023, a year with no major fertilizer subsidy, which highlights the impact of government actions in the Ghanaian market.
- In 2024, the Government of Ghana procured substantial volumes of fertilizer to support smallholder farmers affected by prolonged dry spells. Over the years, government programs have also raised awareness of the benefits of fertilizer use, boosting adoption among smallholder farmers and increasing open-market sales.
- The reduction and stability of global fertilizer prices in 2024 compared to 2023 contributed to higher imports. For example, the average price of NPK 15-15-15 decreased from \$494 per tonne in 2023 to \$418 per tonne in 2024.
- Favorable opportunities for re-exports to neighboring countries may have further driven the rise in imports.

Sustainability of the FTWG

Participants discussed ways to ensure the sustainability of the Fertilizer Technical Working Group (FTWG), including:

- Stronger involvement of importers and engagement with private sector CEOs to support validation meetings;
- Strengthening the Fertilizer Platform Ghana (FPG) to manage validation meetings;
- Engaging donors and NGOs to highlight the platform's role in advancing data-driven evidence.
- A team from IFDC and MoFA should make a presentation to World Food Programme (WFP) to explore future collaboration and support.

Summary of 2024 Fertilizer Statistics

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HS CODE	PRODUCTS	Production	2023 Production carry over into 2024	Total Imports	Industrial Use	Exports	2024 Fertilizer Import	2024 Production carry over into 2025	2024 Apparent Consumption
3105200000	NPK			297,176		28,573	297,176		268,603
3105200000	NPK (foliar)			675			675		675
3102100000	Urea			66,263	142	1,550	66,121		64,571
3102100000	Urea (Foliar)			11			11		11
3102210000	Ammonium Sulphate			56,030	0		56,030		56,030
3104200000	Muriate of Potash			34,008	22		33,986		33,986
3103101000	Triple Super Phosphate			23,382		22	23,382		23,360
3102900000	Other Nitrogen			23,034			23,034		23,034
3102900000	Other Nitrogen (Foliar)			2			2		2
3102400000	Calcium Ammonium Nitrate			21,396			21,396		21,396
3101000000	Organic fertilizer	7,805	3,322	4,086		100	4,086		15,112
3101000000	Organic Fertilizer (Liquid)	78		228			228		306
3104300000	Sulphate of potash			13,081	0		13,081		13,081
3103900000	Other phosphate			5,000			5,000		5,000
3105300000	Diammonium Phosphate			3,100			3,100		3,100
3102600000	Calcium Nitrate			2,281			2,281		2,281
3102600000	Calcium Nitrate (Foliar)			20			20		20
9999999990	Enhancers			1,713		125	1,713		1,588
9999999990	Enhancers (Foliar)			276			276		276
3103100000	Single Super Phosphate			1,045		25	1,045		1,020
2510000000	Phosphate Rock			650			650		650
2834210000	Potassium Nitrate			433			433		433
3105600000	PK Compounds			253	0		253		253
3105600000	PK Compounds (Foliar)			10			10		10
3105400000	Monoammonium Phosphate			27			27		27
2834210000	Potassium Nitrate			19			19		19
3105510000	NP Compounds			13			13		13
3105510000	NP Compounds (Foliar)			407			407		407
3104900000	Other Potash fertilizer			0			0		0
3102500000	Sodium nitrate			114	114				-
3102300000	Ammonium Nitrate			68,989	68,989				-
2024 Grand Total (MT)		7,883		623,724	69,267	30,396	554,457	-	535,266
2023 Grand Total (MT)				375,274	82,925	12,700	292,349		280,479
% Change						139%	90%		91%

Participants of 2025 FTWG

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

AfricaFertilizer 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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