



AfricaFertilizer
Data-Driven Decisions for African Food Systems



FERTILIZER STATISTICS OVERVIEW

NIGERIA

2019 - 2023



2024 EDITION



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



Partners of 2024 FTWG

NIGERIA



Nigeria

Outline

1. Production
2. Import
3. Origins
4. Export
5. Consumption (app)
6. NPK blends analysis
7. Summary

Background Information

- Overview of fertilizer statistics in Nigeria from 2019 – 2023.
- Emphasis is on 2023, and each analysis is based on the products with the highest quantities.
- Official trade data obtained from the Nigeria Customs Service (NCS) and Nigeria Ports Authority (NPA) as well as production import and export data from the private sector.
- Validated by Fertilizer Technical Working Group – Nigeria (FTWG-NGA).
- 2023 data validated from 5th – 6th March, 2024.

Fertilizer Production

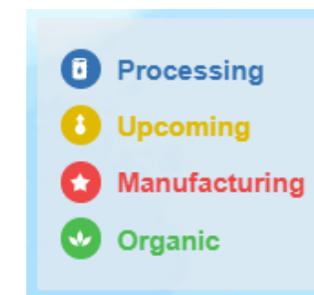
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HS Code	Product	2019	2020	2021	2022	2023
3102100000	Urea	1,473,858	1,435,193	2,701,279	3,458,740	3,655,860
3103100000	SSP	-	-	-	-	-
Total (MT)		1,473,858	1,435,193	2,701,279	3,458,740	3,655,860

Comments

- Presently, Nigeria has three urea production plants, namely Notore, Indorama, and Dangote, with a collective capacity of 6.5 million metric tons. These facilities are currently operational and collectively produced approximately 3.65 million Metric Tons (MT) of urea in 2023.
- There was a 6% increase in Urea production in 2023 compared to 2022.
- Producers mentioned that they could have produced more but faced issues with gas supply.
- Notore took over from NAFCON in 2005 and started production of Urea. Indorama's train 1 started production in June 2016 while train 2 started production in 2021. Dangote's train 1 also started production in 2021 while train 2 started production in 2022. This explains the continuous increment in Urea production to date.
- There is also production of SSP but it has been on hold since 2016.
- The number of companies who participated in the fertilizer blending program increased from 72 in 2022 to 75 in 2023.

Fertilizer Plants in Nigeria



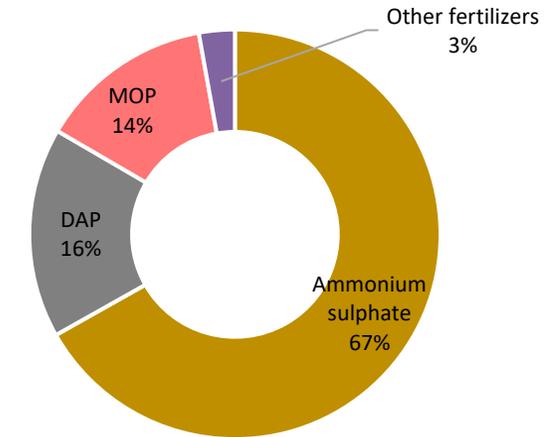
<https://vifaanigeria.org/#/nigeria/directory>

Fertilizer Import

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HS Code	Fertilizer Name	2019	2020	2021	2022	2023
3102210000	Ammonium sulphate	41,533	49,056	237,869	187,297	356,582
3105300000	DAP	56,800	168,181	292,158	177,776	88,588
3104200000	MOP	29,275	199,733	176,291	110,476	73,426
3105200000	NPK	1,785	1,016	27	-	-
	Other fertilizers	2,064	11,316	576	111	15,050
Total (MT)		131,458	429,303	706,922	475,661	533,647

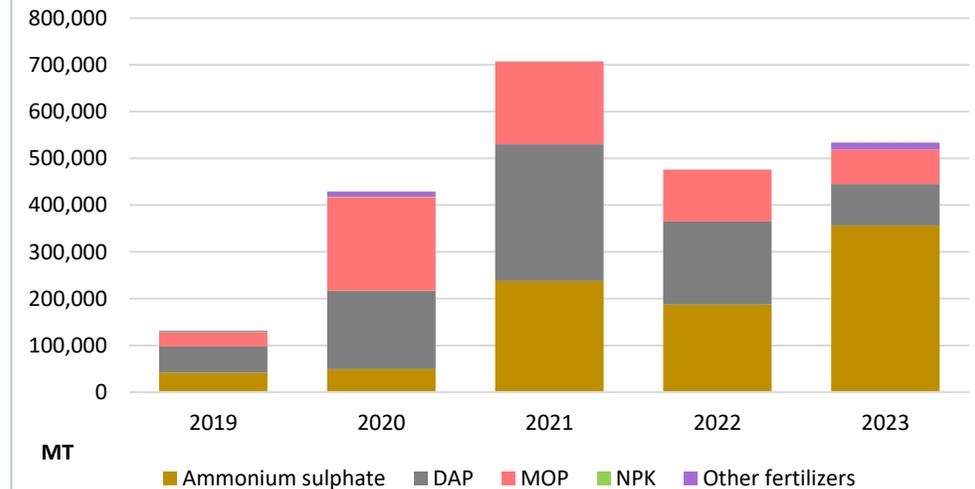
TOP IMPORTED FERTILIZERS 2023



Comments

- Since 2017, Nigeria has officially been importing huge volumes of fertilizer raw materials, including DAP (Phosphate), MOP (Potash), and Granular Ammonium Sulphate, also known as GAS (Nitrogen).
- Alongside domestically produced Urea (Nitrogen), these materials are blended within the country to produce various grades of NPK fertilizers. These fertilizers serve as basal fertilizers for Nigerian farmers, providing essential nutrients aimed at increasing crop yields.
- Official fertilizer imports to Nigeria increased by 12% from 2022 to 2023.
- GAS imports increased significantly, from 187,297 MT in 2022 to 356,582 MT in 2023, a 90% increase.
- About 268,866 MT of raw materials were recorded to be carried over from 2023 into 2024.

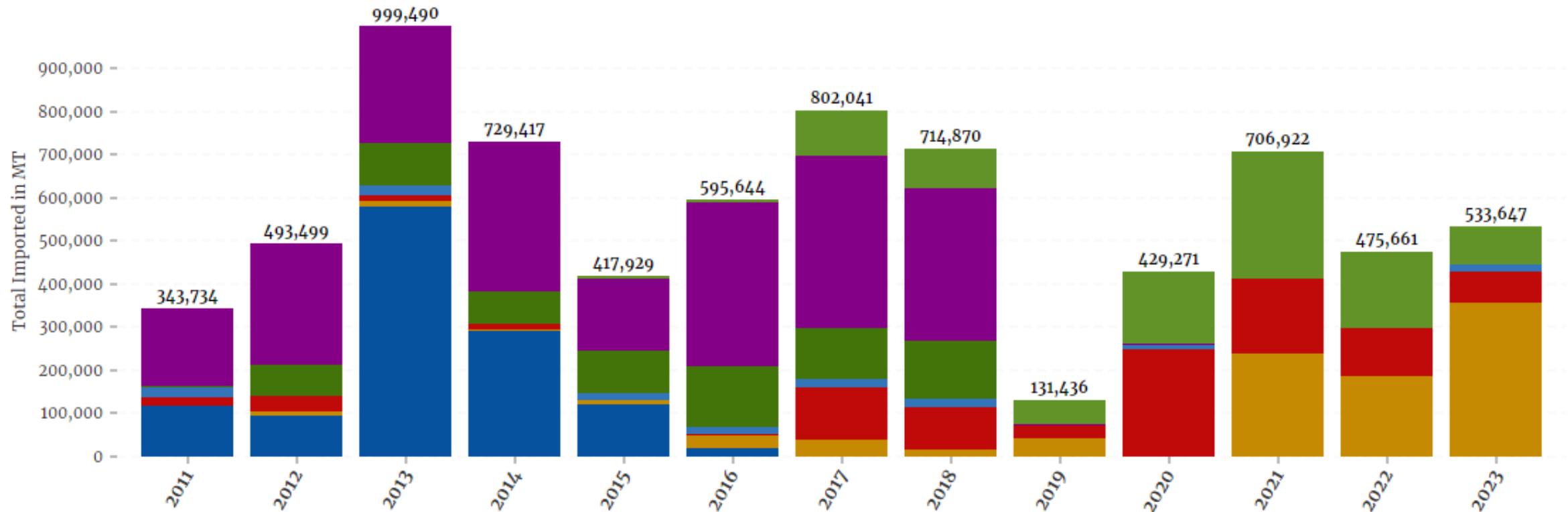
NIGERIA FERTILIZER IMPORTS PER YEAR



Fertilizer Import on the Dashboard

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● Ammonium Sulphate ● Diammonium Phosphate ● Muriate of Potash ● NPK ● Organic Fertilizer ● Single Super Phosphate ● Urea ● Others



<https://vifaanigeria.org/#/nigeria/availability>

Fertilizer Import by Country

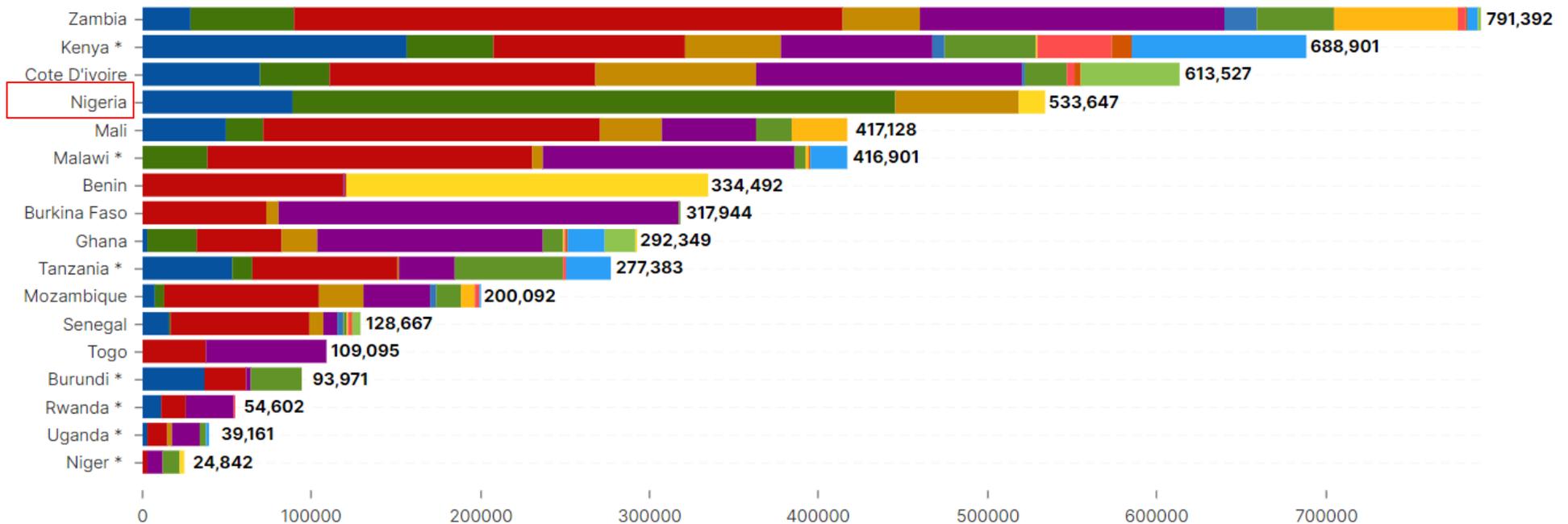
NIGERIA

Products / 13 of 13

Year / 2023

Country / 18 of 18

- Diammonium Phosphate
- Ammonium Sulphate
- Urea
- Muriate of Potash
- NPK
- Sulphate of Potash
- Others
- Monoammonium Phosphate
- Calcium Nitrate
- Organic Fertilizer
- Calcium Ammonium Nitrate
- Triple Super Phosphate
- Single Super Phosphate



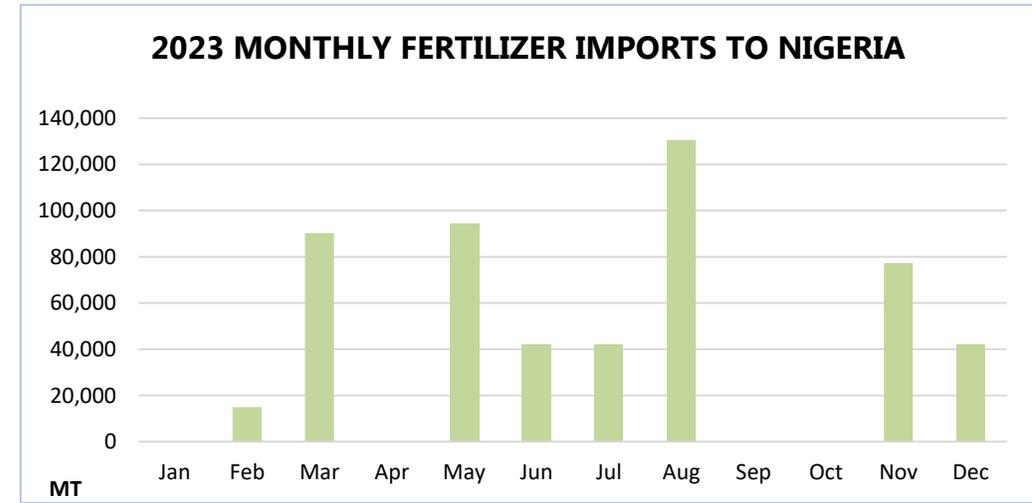
- Graph as of May 30, 2024
- Countries with (*) data yet to be validated

<https://africafertilizer.org/#/en/vizualizations-by-topic/trade-statistics/>

Fertilizer Monthly Import

NIGERIA

Quarter	2019	2020	2021	2022	20203
Q1	6,486	123,248	124,059	44,664	105,164
Q2	35,938	157,117	376,272	284,878	136,514
Q3	45,284	78,202	74,735	54,104	172,438
Q4	43,749	70,736	131,857	92,015	119,531
Total (MT)	131,458	429,303	706,922	475,661	533,647



Comments

- In Nigeria, the major planting season for most food crops typically start in the rainy season; from March to May and occasionally extending to June.
- Fertilizers therefore needs to available in the market before the onset of the planting season.
- In 2023, 45% of the fertilizers imported arrived in the country between Q1 and Q2.

Crop Calendar

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

Key: ◆ Fertilizer Peak Demand Sowing

Growing

Harvestin

Source : FAO/GIEWS

Consecutive Periods on the Dashboard **NIGERIA**

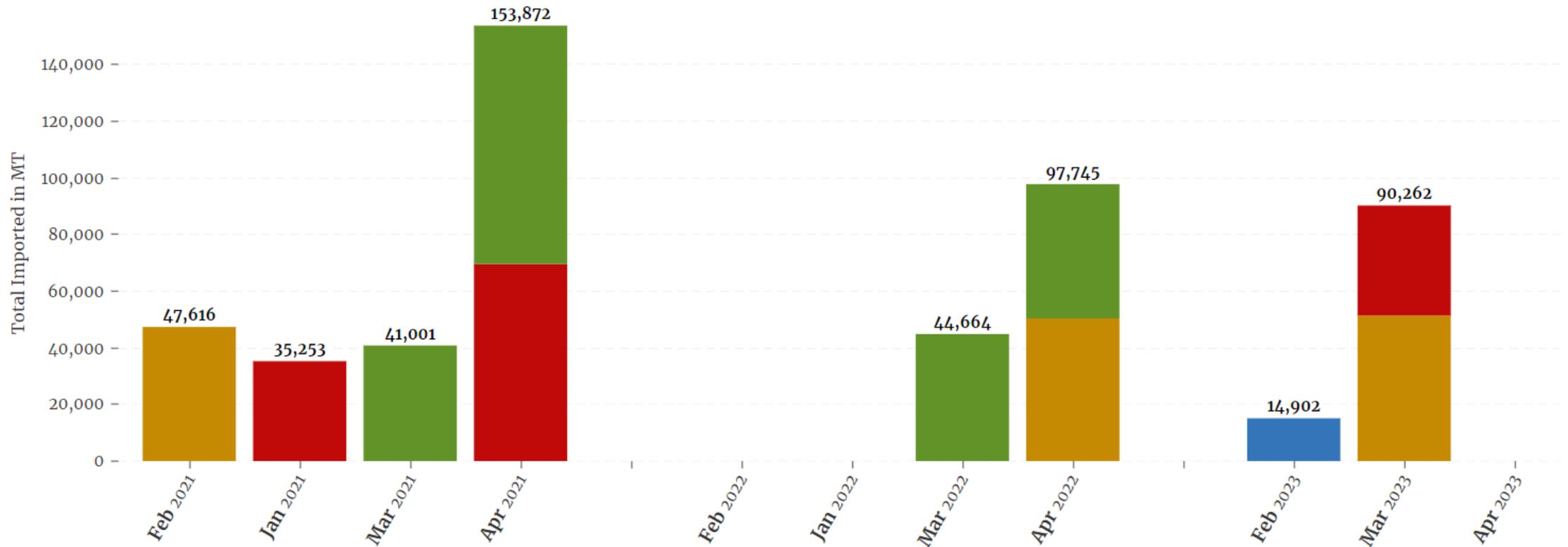
Consecutive Months
 Consecutive Periods
 Consecutive Years

Period Start / January ▾

Period End / April ▾

years / 3 of 14 ▾

Ammonium Sulphate
 Diammonium Phosphate
 Muriate of Potash
 NPK
 Organic Fertilizer
 Single Super Phosphate
 Others

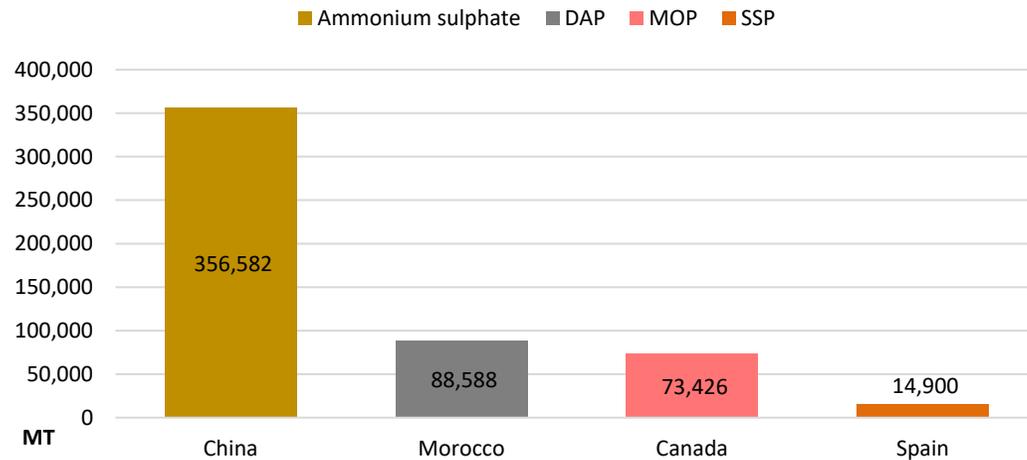


<https://vifaanigeria.org/#/nigeria/availability>

Fertilizer Origins

NIGERIA

TOP COUNTRIES OF ORIGIN IN 2023



Comments

- In 2023, Nigeria sourced its GAS from China, DAP from Morocco, MOP from Canada, and SSP from Spain.
- In addition to this, Urea was also sourced locally.



<https://vifaanigeria.org/#/nigeria/availability>

Fertilizer Exports

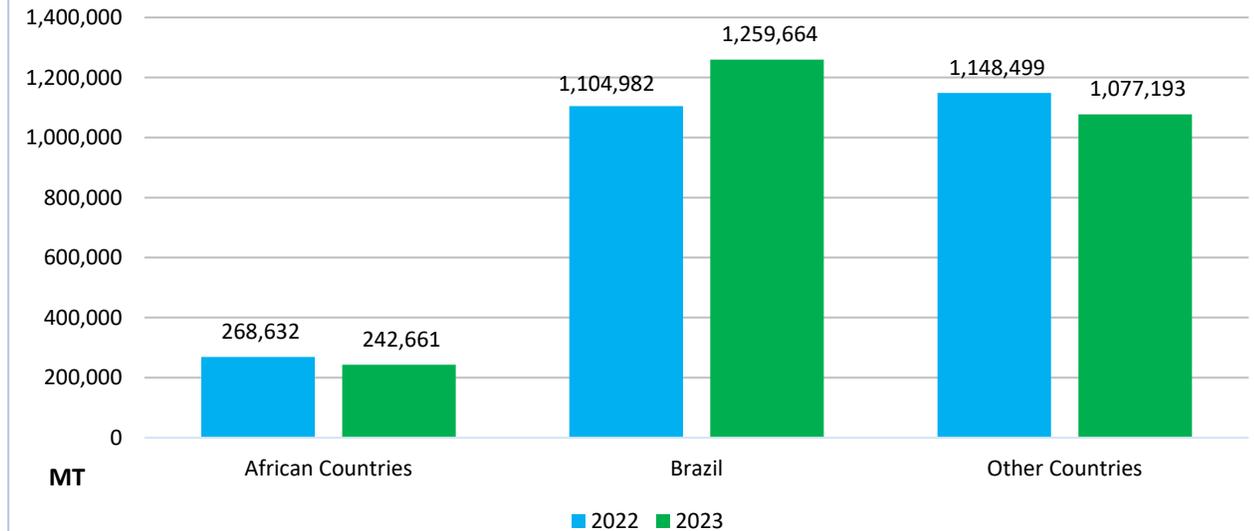
NIGERIA

HS Code	Fertilizer Name	2019	2020	2021	2022	2023
3102100000	Urea	743,707	446,850	1,348,924	2,522,113	2,579,518
3104200000	MOP				12,400	
3105200000	NPK				6,010	200
Total (MT)		743,707	446,850	1,348,924	2,540,523	2,579,718

Comments

- In 2023, there was no significant increase in Urea exports from Nigeria due to a shortage of gas, which is a crucial constituent material used in Urea production.
- Urea exports from Nigeria to other African countries decreased by 10%; from 268,632 MT in 2022 to 242,661 MT in 2023.
- However, exports to Brazil experienced a 14% increase, while exports to other countries saw a decrease of 6%.
- Overall, 9% of total Urea exports from Nigeria went to African countries in 2023.
- Although there was a decrease in the export of NPK when compared to the previous year, there is consistency in the export of NPK.

UREA EXPORT BY DESTINATION

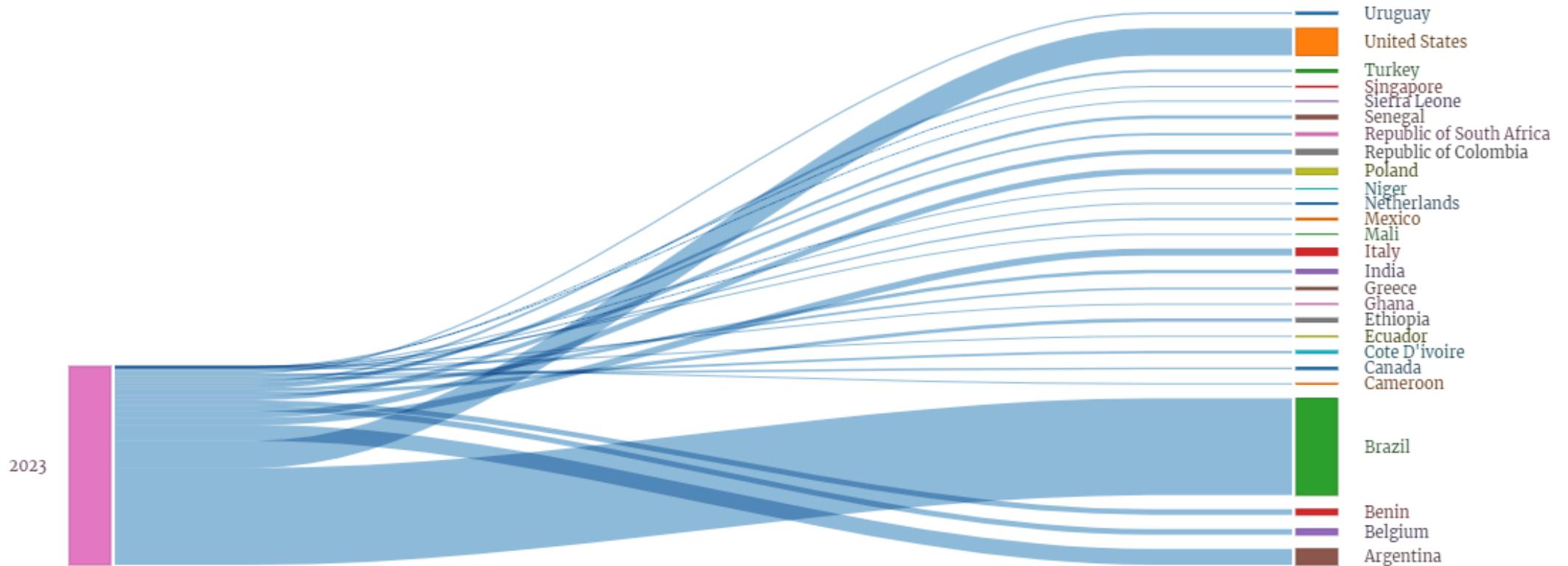


Why more export outside Africa

- Low demand especially from West Africa makes freight rates high.
- Most West African markets are tender markets, which normally state prilled Urea in the document.
- There are bottlenecks in road transport.
- It is also more profitable to export to outside Africa.

Fertilizer Exports on the Dashboard

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<https://vifaanigeria.org/#/nigeria/availability>

Fertilizer Apparent Consumption

NIGERIA

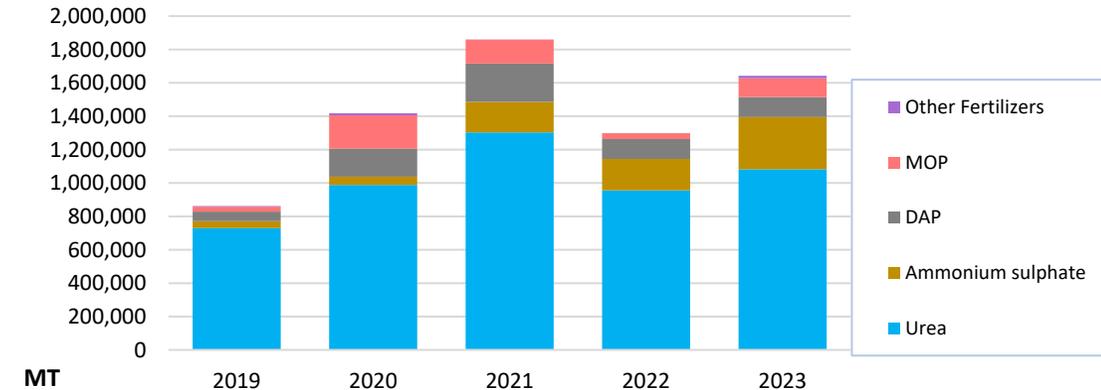
HS Code	Fertilizer Name	2019	2020	2021	2022	2023
3102100000	Urea	730,151	988,343	1,303,423	955,980	1,082,467
3102210000	Ammonium sulphate	41,533	49,056	182,845	188,740	312,355
3105300000	DAP	56,800	168,181	229,588	118,678	120,423
3104200000	MOP	29,275	199,733	142,846	34,996	112,182
	Other Fertilizers	3,849	12,332	603	110	15,050
Total (MT)		861,609	1,417,646	1,859,306	1,298,505	1,642,476

Comments

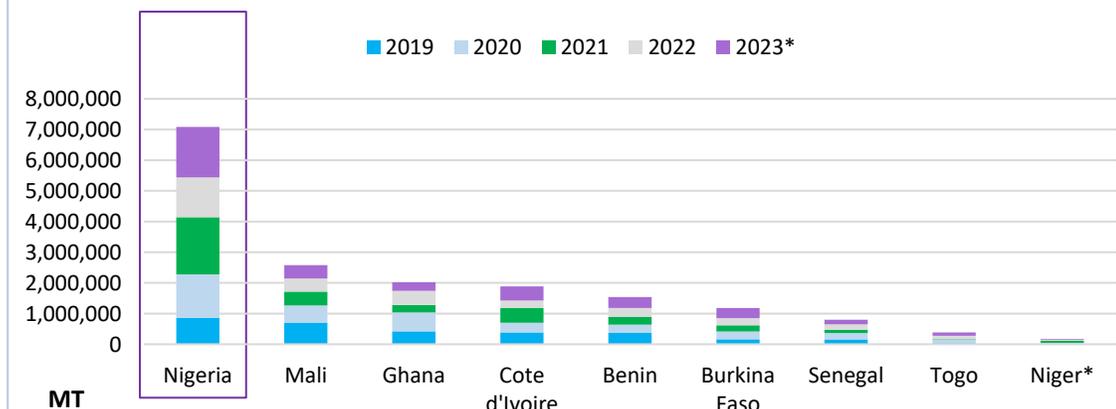
- There was a 26% increase in apparent consumption from 2022 to 2023.
- The apparent consumption in 2023 was 1,642,476 MT after a carryover of 268,886 MT from 2023 into 2024 was subtracted.
- Despite the increased fertilizer prices in 2023, attributed to the removal of fuel subsidies and the escalating dollar-to-naira exchange rate, apparent consumption still increased. This was due to the early availability and procurement of products prior to the challenges mentioned above.

NB: Apparent consumption = 2022 Carryover + Production + Imports – Exports – Non-Fertilizer Use – 2023 Carryover stock

FERTILIZER APPARENT CONSUMPTION PER YEAR (2019 - 2023)



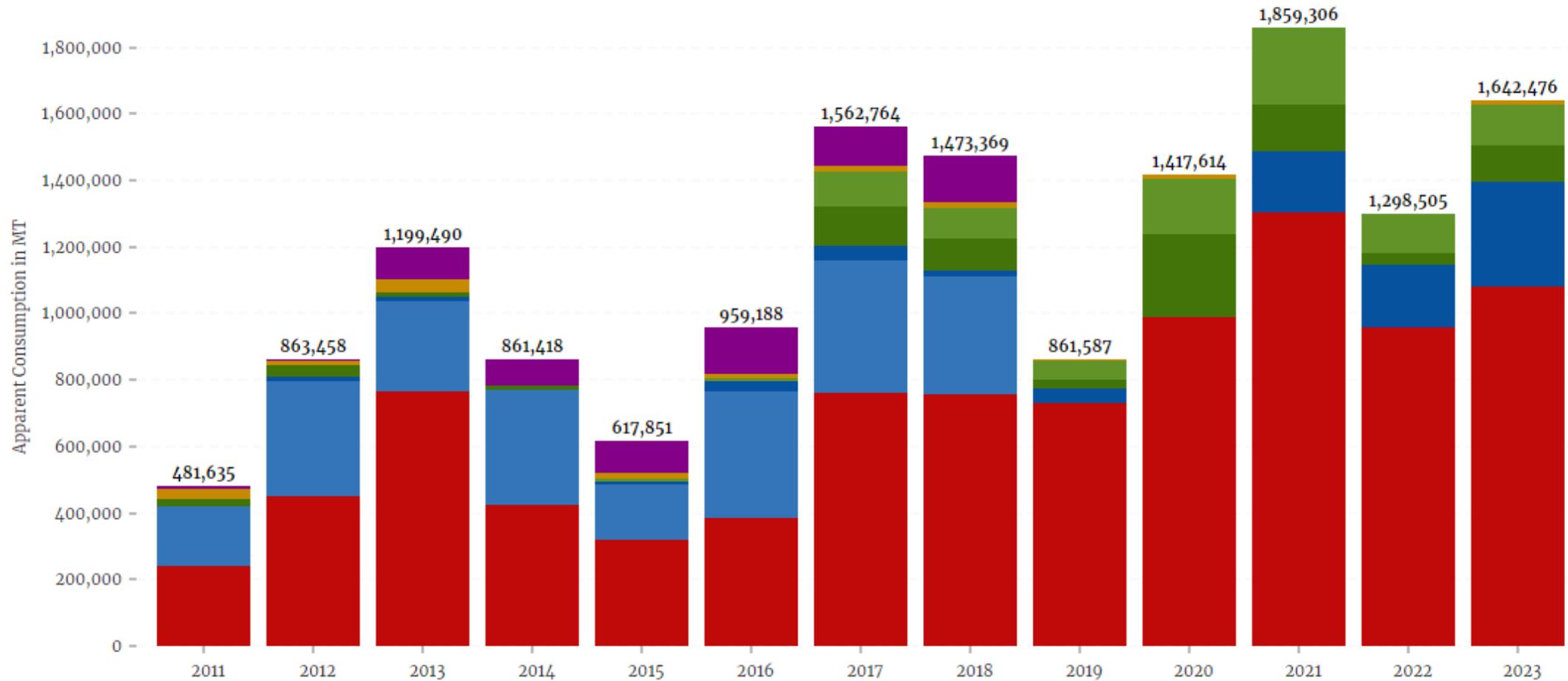
APPARENT CONSUMPTION FERTILIZER IN WEST AFRICA (2019-2023)



- Graph as of May 30, 2024
- Countries with (*) data yet to be validated

Fertilizer Apparent Consumption on the Dashboard **NIGERIA**

● Ammonium Sulphate
 ● Diammonium Phosphate
 ● Muriate of Potash
 ● NPK
 ● Single Super Phosphate
 ● Urea
 ● Others



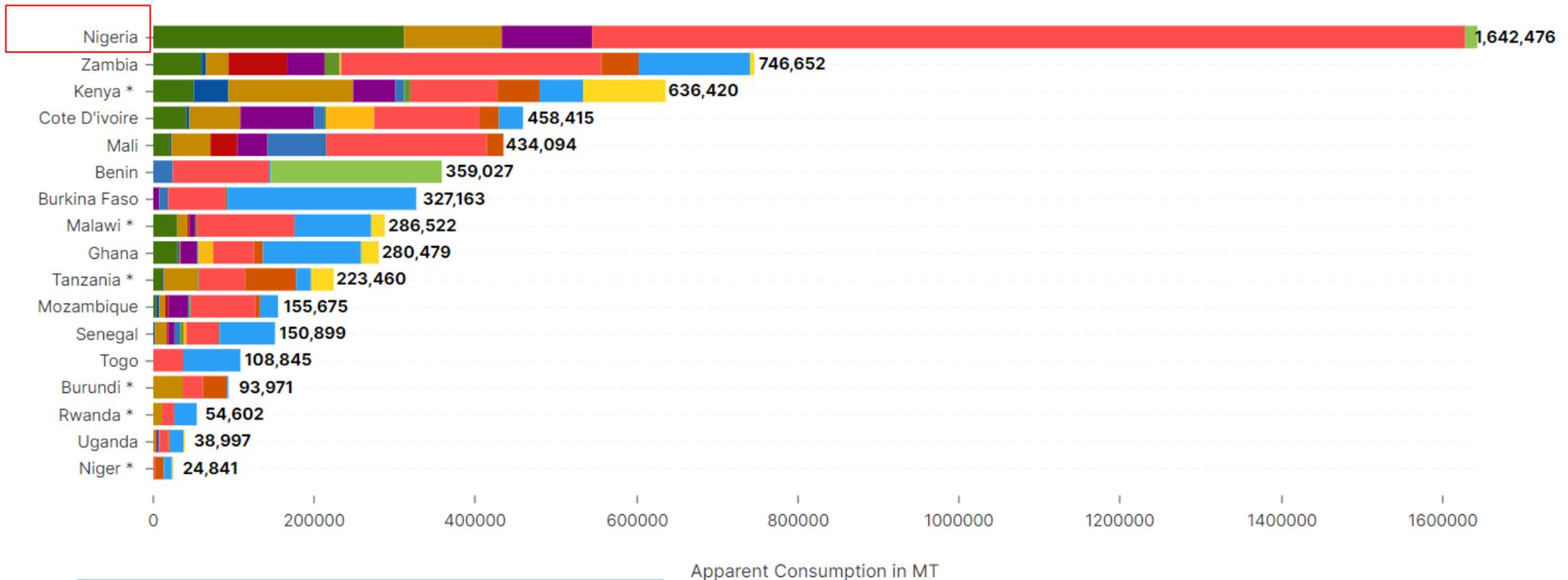
Fertilizer Apparent Consumption by Country **NIGERIA**

Products / 13 of 13

Year / 2023

Country / 18 of 18

- Ammonium Sulphate
- Calcium Nitrate
- Diammonium Phosphate
- Monoammonium Phosphate
- Muriate of Potash
- Organic Fertilizer
- Sulphate of Potash
- Triple Super Phosphate
- Urea
- Others
- NPK
- Single Super Phosphate
- Calcium Ammonium Nitrate



- Graph as of May 30, 2024
- Countries with (*) data yet to be validated

NPK Blends Analysis

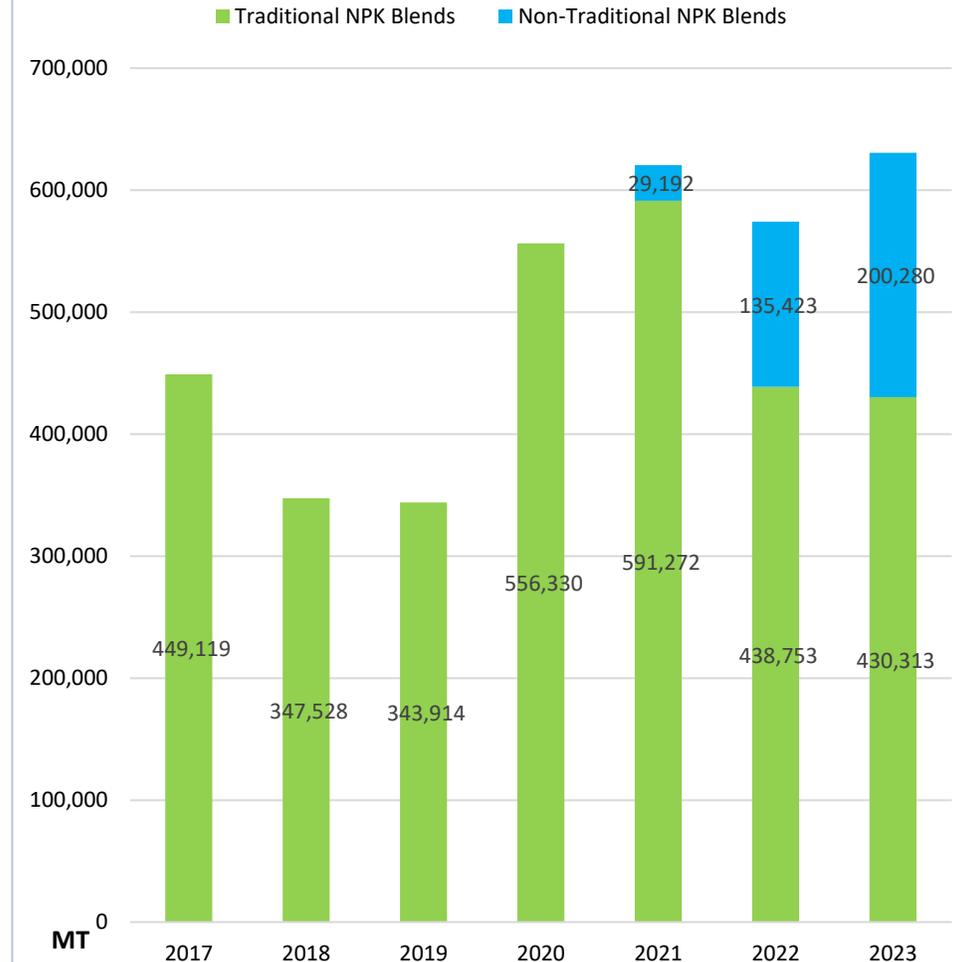
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NPK,NP and NK Blends		2017	2018	2019	2020	2021	2022	2023*	Crops mostly used on
Traditional Blends	NPK 20-10-10	438,404	336,993	332,365	554,925	353,363	199,563	123,135	Cereals tubers, vegetables, etc
	NPK 15-15-15	8,415	8,235	9,309	1,225	146,253	173,737	210,233	Cereals , Tubers,etc
	NPK 20-10-5	2,000	2,000	2,000		31,100	47,409	88,718	Cereals
	NPK 27-13-13					54,990	14,990	7,184	Cereals
	NPK 12-12-17 + 2MgO	300	300	240	180	5,567	3,054	1,043	Oil, Root
Non-Traditional Blends	Special Blends					29,192	135,423	200,280	
Total (MT)		449,119	347,528	343,914	556,330	620,463	574,176	630,593	

Comments

- Using imported GAS, MOP and DAP together with locally manufactured Urea, more than 630,000 MT of NPKs were blended to serve farmers in 2023, as of the first half of December.
- NPK products are categorized into traditional and non-traditional blends.
- Traditional NPK blends are products commonly used by farmers, readily available in the retail market, and are generally intended for a wide range of crops.
- Non-traditional NPK blends are specialized blends targeted for specific crops and are typically formulated based on requests from commercial farms.
- Previously, traditional blends accounted for 100% of the total production. From 2021 to date those same blends now accounted for between 70-95% of the total products blended annually, with NPK 20-10-10 and NPK 15-15-15 being the most voluminous.
- NPK 20-10-10 and NPK 15-15-15 comprise approximately 90% of the traditional blends.
- The volume of non-traditional blends is gradually increasing yearly, indicating a growing demand for crop-specific formulations.

NPK Traditional vs. Non-Traditional Blends



Summary of 2023 Fertilizer Statistics

NIGERIA

HS Code	Product Name	Carry over from 2022 to 2023	Production	Total Import	Export	Industrial	2023 Fertilizer Import	Carry over from 2023 to 2024	2023 Apparent Consumption
3102100000	Urea	29,579	3,655,860		2,579,518			23,454	1,082,467
3102210000	Ammonium Sulphate (GAS)	53,581		356,582			356,582	97,808	312,355
3105300000	DAP	121,668		88,638		50	88,588	89,833	120,423
3104200000	MOP	96,525		82,170		8,744	73,426	57,770	112,182
3103100000	SSP			14,900			14,900		14,900
3101000000	Organic Fertilizer			89			89		89
9999999990	Biostimulant, Enhancers			61			61		61
3102300000	Ammonium nitrate			16,121		16,121			-
3102500000	Sodium nitrate			646		646			-
3104300000	SOP			27,876		27,876			-
3105200000	NPK				200				(200)
2023 Total (mt)		301,353	3,655,860	587,084	2,579,718	53,437	533,647	268,866	1,642,476
2022 Total (mt)			3,458,740		2,540,523		475,661		1,298,505
% Change			6%		2%		12%		26%

Comments

In 2023;

- Urea production was 3,655,860 MT, a 6% increase from 2022.
- The increase in production was not significant due to a shortage of gas, which is the crucial constituent material used in Urea production.
- Total fertilizer import was 533,647 MT, a 12% increase from 2022 import.
- 2019 import of 131,458mt is the lowest since 2010.
- Urea export from Nigeria increased by 2% from 2022.
- Fertilizer apparent consumption increased by 26% from 2022.
- Using imported MOP, DAP, and GAS together with locally manufactured Urea, more than 630,000 MT of NPKs were blended to serve farmers in 2023, as of the first half of December.

- There is the need to include limestone (filler) figures in the validation process, going forward, because limestone companies are growing in numbers, as limestone is an important part of NPK blends, accounting for about 26% of the NPK blends.
- Prices of raw materials have reduced in the international market, but forex issues have made it difficult for local prices to reduce in naira.
- There is a need to constitute a committee among FTWG members to prepare a policy document on the issue of fertilizer (Urea) which will be presented to the President, Vice President, the Senate as well as the Minister of Agriculture to address the issue of sufficient Urea availability in Nigeria.
- It is important for Farm Inputs Support Services (FISS) to meet with fertilizer-producing companies (FEPSAN) that have laboratories to discuss how to build the capacity of industry actors to ensure fertilizer quality, through laboratory testing activities.
- On fertilizer quality issues, the Federal Government should collaborate with FEPSAN to self-regulate their activities to make the industry more vibrant, because the current attitude of stakeholders cannot grow the sector.
- AfricaFertilizer should sign a non-disclosure agreement with the Organic Fertilizer and Producers Association of Nigeria (OFPSAN) so they can also share their data confidently, knowing that their data will be safe.

Participants of 2024 FTWG

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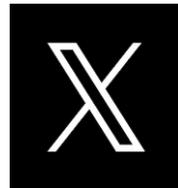


The **AfricaFertilizer** initiative is the premier source for fertilizer statistics and information in Africa.

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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[VIFAA Nigeria Dashboard](#)

[Nigeria 2023 Fertilizer Factsheet](#)