



AfricaFertilizer
Data-Driven Decisions for African Food Systems



FERTILIZER STATISTICS OVERVIEW **NIGERIA** 2018 - 2022

2023 Edition



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



Nigeria

Outline

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

Background Information

- Overview of fertilizer statistics in Nigeria from 2018 – 2022.
- Emphasis is on 2022, and each analysis is based on the products with higher quantities.
- Official trade data obtained from the Nigeria Customs Service (NCS) and Nigeria Ports Authority (NPA) as well as production and exports data from private sector
- Validated by Fertilizer Technical Working Group – Nigeria (FTWG-NGA).
- 2022 data validated from 29th March – 30th March, 2023.

Fertilizer Production

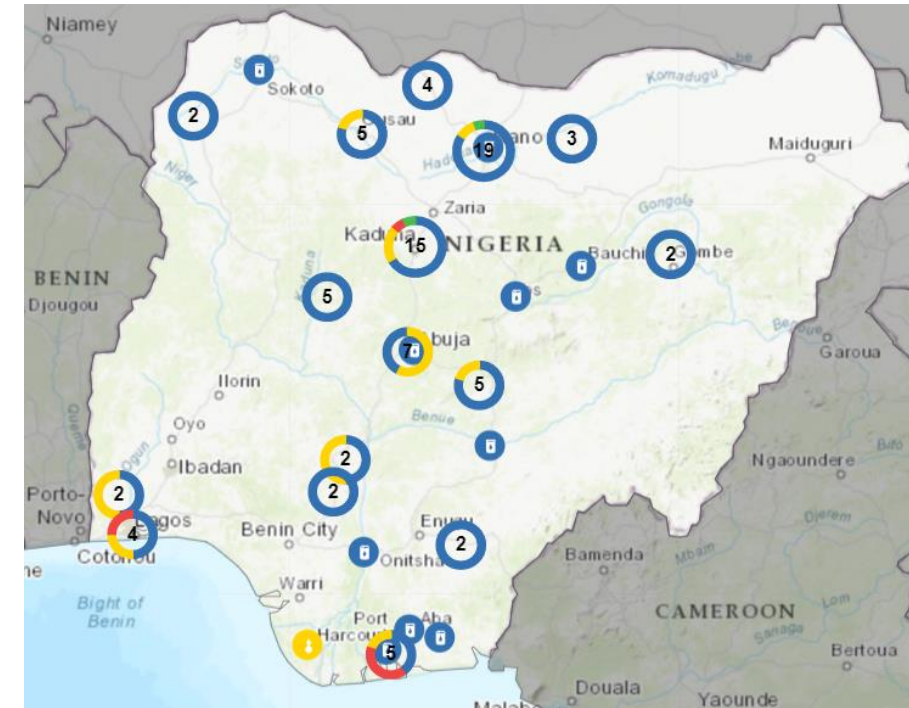
NIGERIA

HS Code	Product	2018	2019	2020	2021	2022
3102100000	Urea	1,595,935	1,473,858	1,435,193	2,701,279	3,458,740
3103100000	SSP	-	-	-	-	-
Total (mt)		1,595,935	1,473,858	1,435,193	2,701,279	3,458,740

Comments

- There is primary production of granulated Urea fertilizer in Nigeria by Notore Chemical Industries PLC, Indorama Fertilizers & Chemical, both are located at Onne, River State and Dangote Fertilizer Limited located in Lagos.
- There was a 28% increase in Urea production in 2022 compared to 2021.
- 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 and while train 2 started production in 2022. This explains the increment in Urea production in 2022.
- 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 52 in 2021 to 72 in 2022.

Fertilizer Plants in Nigeria



- Processing
- Upcoming
- Manufacturing
- Organic

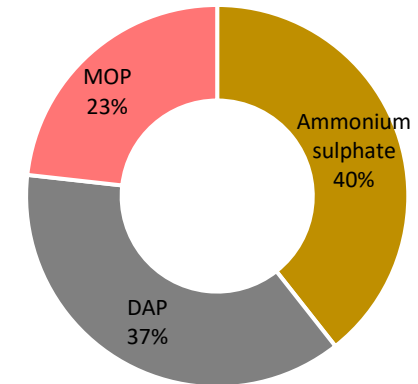
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Fertilizer Import

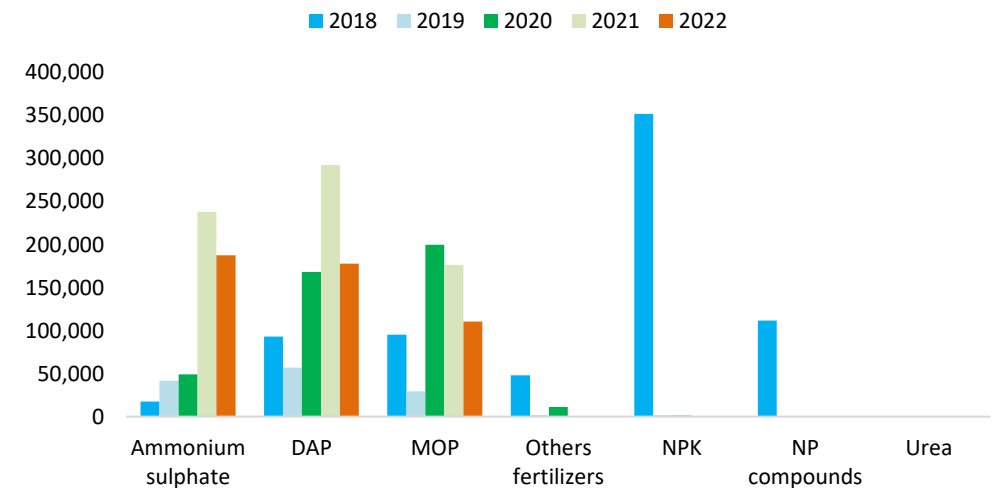
NIGERIA

HS Code	Fertilizer Name	2018	2019	2020	2021	2022
3102210000	Ammonium sulphate	17,700	41,533	49,056	237,869	187,297
3105300000	DAP	92,956	56,800	168,181	292,158	177,776
3104200000	MOP	95,373	29,275	199,733	176,291	110,476
3105200000	NPK	351,821	1,785	1,016	27	-
3105510000	NP compounds	111,500	-	-	-	-
3102100000	Urea	-	-	-	-	-
	Others fertilizers	48,101	2,064	11,316	576	111
Total (mt)		717,450	131,458	429,303	706,922	475,661

TOP IMPORTED FERTILIZERS 2022



TOP FERTILIZER IMPORTS PER YEAR



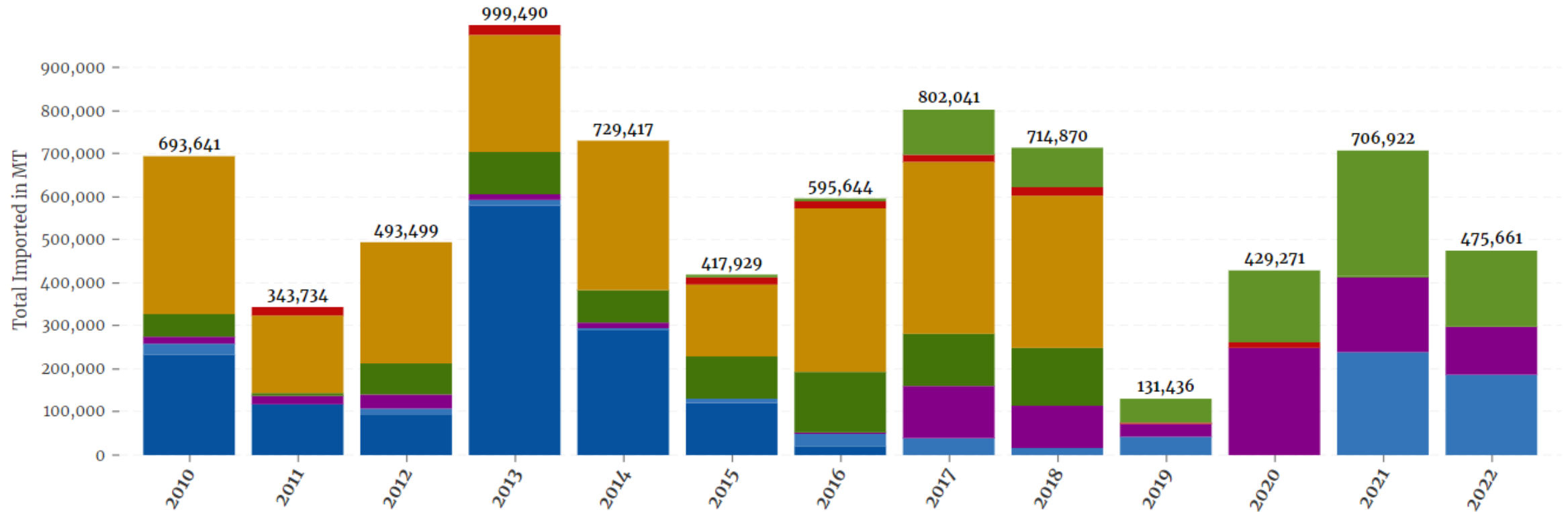
Comments

- Official fertilizer imports to Nigeria decreased by 33% from 2021 to 2022.
- There was a restriction on forex, on fertilizers and a ban on importing of finished NPK in Nigeria from Q4 of 2018. Nigeria now imports raw materials to encourage the growth of local NPK blending industry.
- The Russian-Ukrainian crises led to the delay in the importation of MOP in 2022.
- There was a decrease in MOP importation due to Russian-Ukrainian crises, so Nigeria couldn't import the large quantities from Russia alone, which they later sourced from Canada.
- There was a restriction on importation of Urea from 2016 which accounts for the drop or nonexistence of Urea imports from 2017. Urea producers in the country currently produces more than what is consumed locally.

Fertilizer Import on Dashboard

NIGERIA

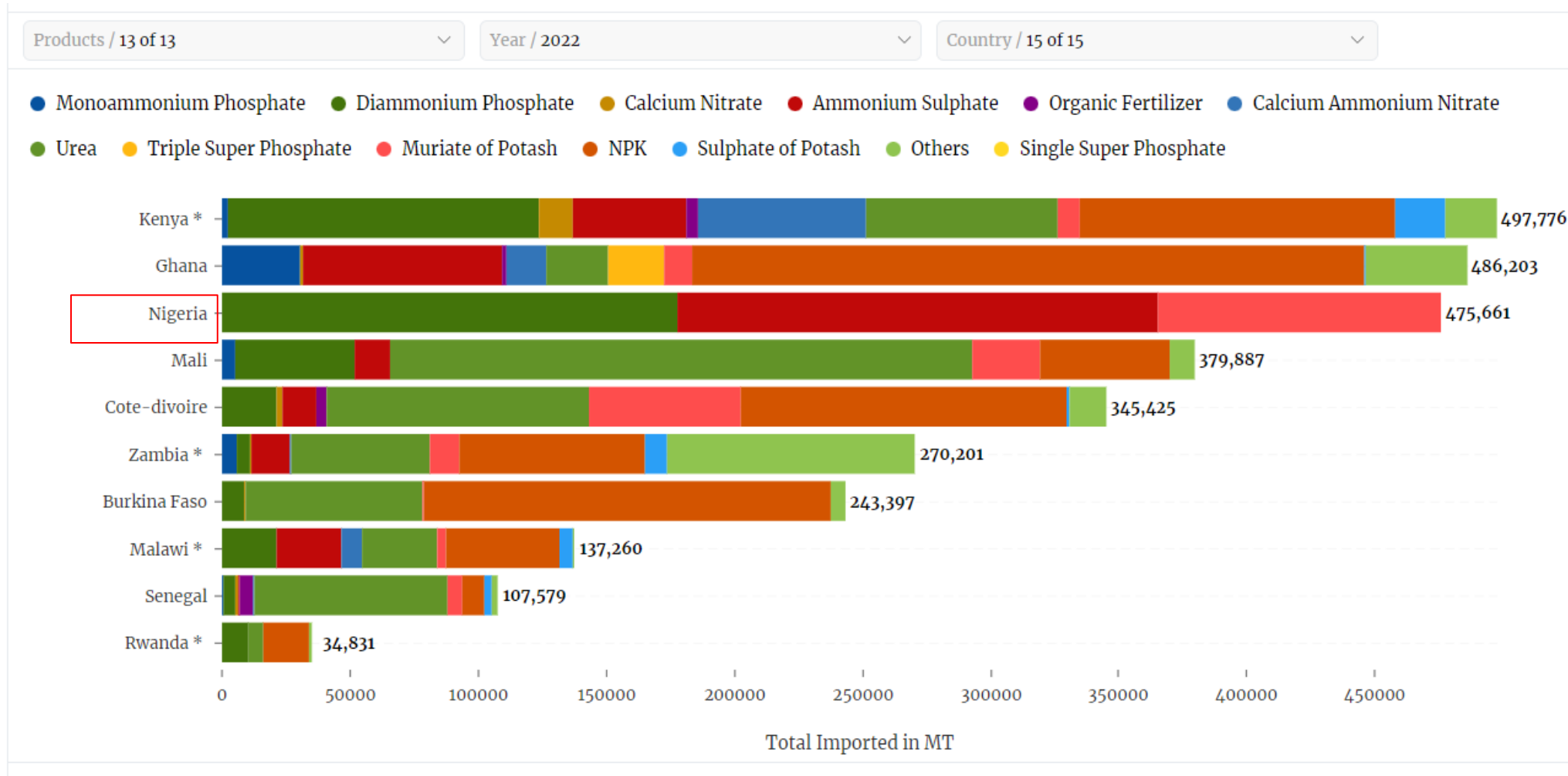
● Ammonium Sulphate ● Diammonium Phosphate ● Muriate of Potash ● NPK ● Single Super Phosphate ● Urea ● Others



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

Fertilizer Import by Country

NIGERIA



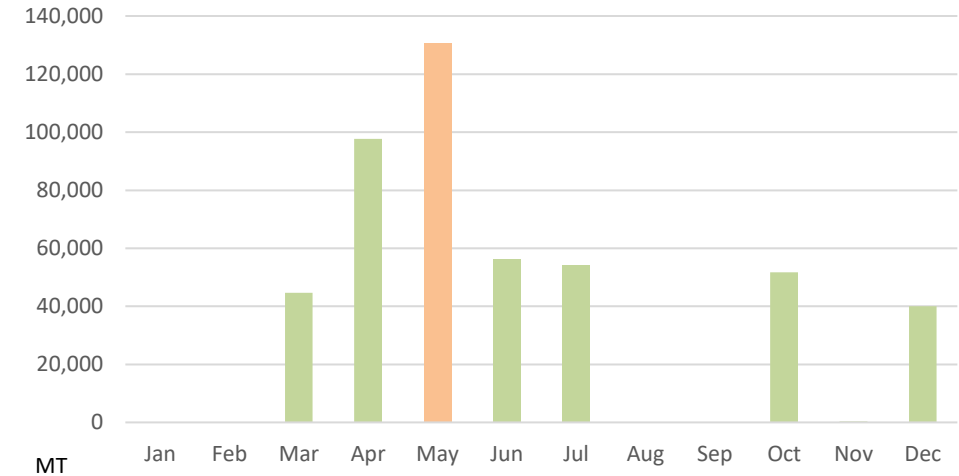
<https://africafertilizer.org/#/en/vizualizations-by-topic/trade-statistics/>

Fertilizer Monthly Import

NIGERIA

Quarter	2018	2019	2020	2021	2022
Q1	204,513	6,486	123,248	124,059	44,664
Q2	308,218	35,938	157,117	376,272	284,878
Q3	183,020	45,284	78,202	74,735	54,104
Q4	21,699	43,749	70,736	131,857	92,015
Total (mt)	717,450	131,458	429,303	706,922	475,661

2022 Monthly Fertilizer Imports to Nigeria



Comments

- In 2022, most of the DAP, Ammonium sulphate and MOP fertilizers imported were recorded in the second quarter.
- 69% of the Fertilizers imported was recorded in the first half of the year (329,542mt).
- Looking at the crop calendar, fertilizer peak demand is mostly at the first half of the year.

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	◆	◆	■	■	■	■					◆	◆

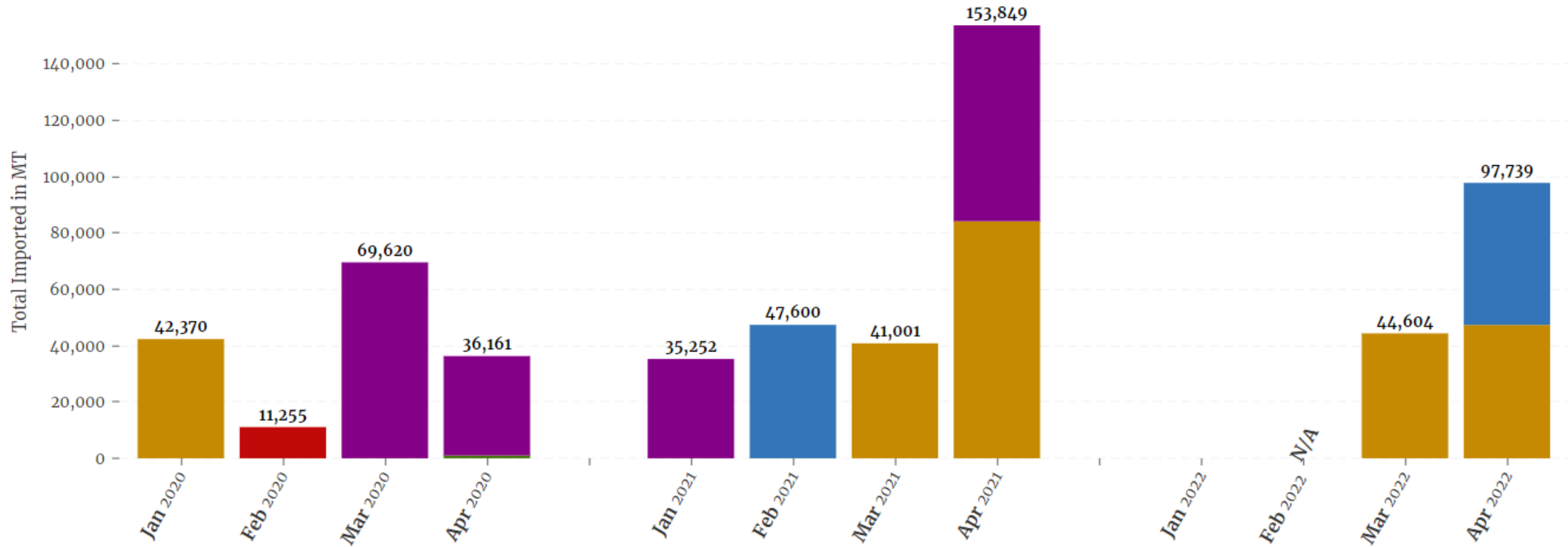
Key: ◆ Fertilizer Peak Demand ■ Sowing ■ Growing ■ Harvest

Source : FAO/GIEWS

Consecutive Periods on the Dashboard **NIGERIA**

Consecutive Months
 Consecutive Periods
 Consecutive Years
 Period Start / January
 Period End / April
 Year(s) / 3 of 13

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

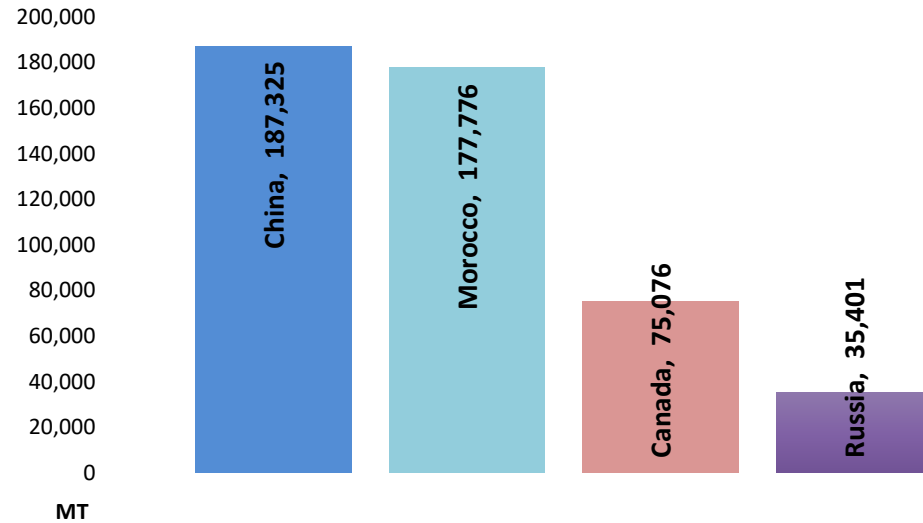


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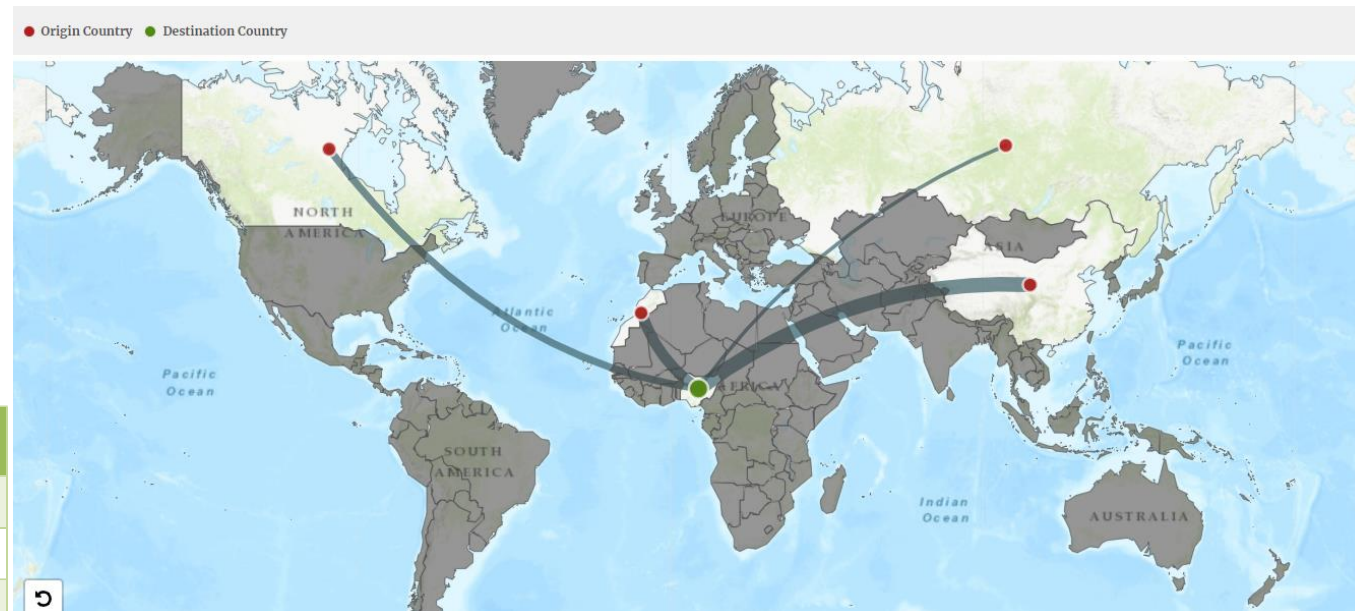
Fertilizer Origins

NIGERIA

TOP 4 COUNTRIES OF ORIGIN



Countries of Origin	China	Morocco	Canada	Russia	OTHER COUNTRIES
DAP	-	100%	-	-	-
SoA	100%	-	-	-	-
MOP	-	-	68%	32%	-
Others fertilizers	24%	-	-	-	76%



Others include about 111mt of Organic fertilizers, MAP and potash fertilizers.

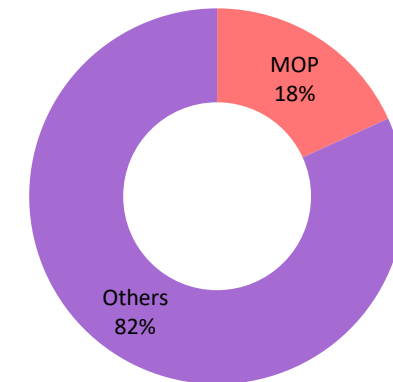
<https://vifaanigeria.org/#/nigeria/availability>

Agricultural and Non-agricultural Uses

NIGERIA

2022 NON FERTILIZER USE

Usage	2018		2019		2020		2021		2022	
	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%
Agriculture	717,450	99%	131,458	96%	429,303	98%	706,922	98%	475,661	99%
Industrial/Mines	5,209	1%	5,188	4%	9,090	2%	13,401	2%	4,597	1%
Total (mt)	722,659	100%	136,645	100%	438,393	100%	720,322	100%	480,258	100%



Comments

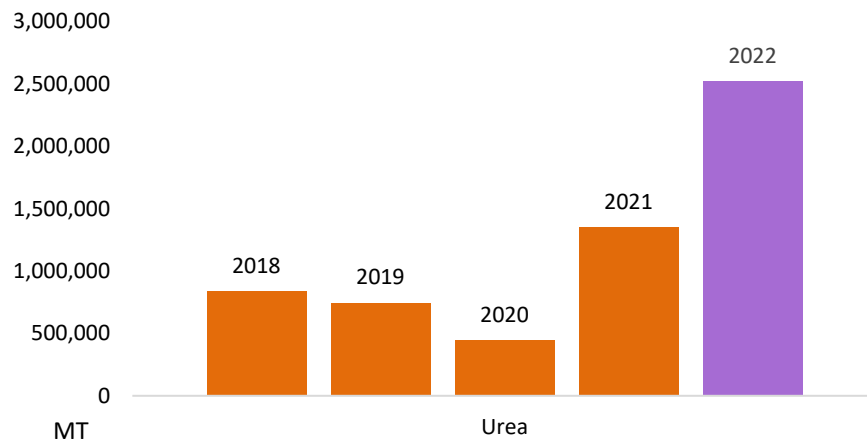
- Some products can be used for both agricultural and industrial purposes depending on the importer. Imports that are not used for agricultural purposes are captured as non-Agricultural use even if they are fertilizers
- Above is a table that shows the product usage between agricultural use and non-agricultural use over the years.
- Averagely 1% of the fertilizer products imported are used for industrial purposes.

Fertilizer Exports

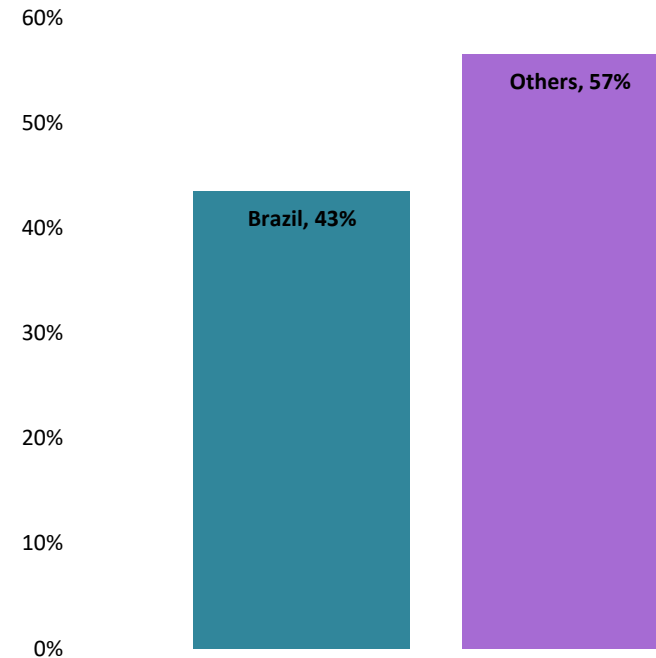
NIGERIA

HS Code	Fertilizer Name	2018	2019	2020	2021	2022
3102100000	Urea	837,436	743,707	446,850	1,348,924	2,522,113
3104200000	MOP					12,400
3105200000	NPK					6,010

UREA EXPORTS PER YEAR



2022 UREA DESTINATIONS (EXPORT)



Urea

Comments

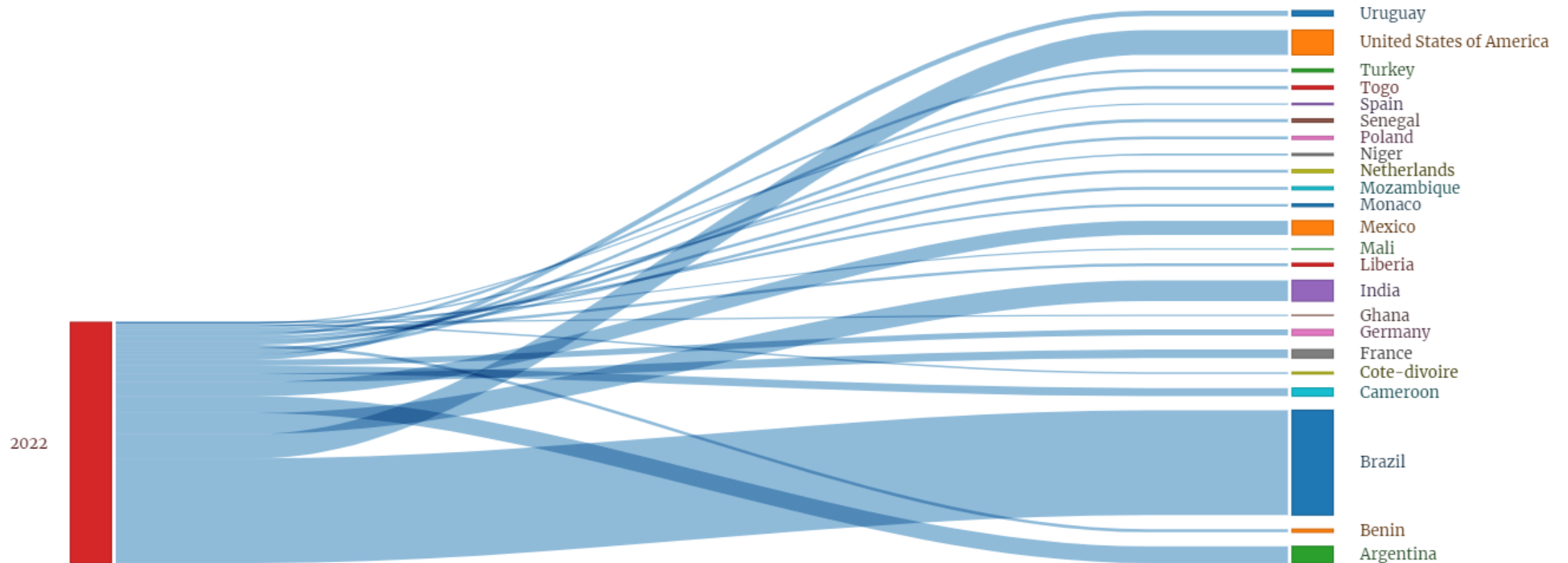
- Increase in production capacities and volumes in 2022 saw urea exports increase by 88% from 2021.
- Brazil continues to be the exports destination for Nigerian Urea as 87% of the Urea was exported there in 2021 and 43% in 2022.
- Export significantly increase due to increase in the international fertilizer prices in 2022.

Why more export outside West Africa

- Most West Africa markets are tender markets, and it is stated as prilled urea.
- Low demand in West Africa which makes freight rates high.
- There are bottlenecks in road transport.
- It is more profitable to export to outside Africa.

Fertilizer Exports on the Dashboard

NIGERIA



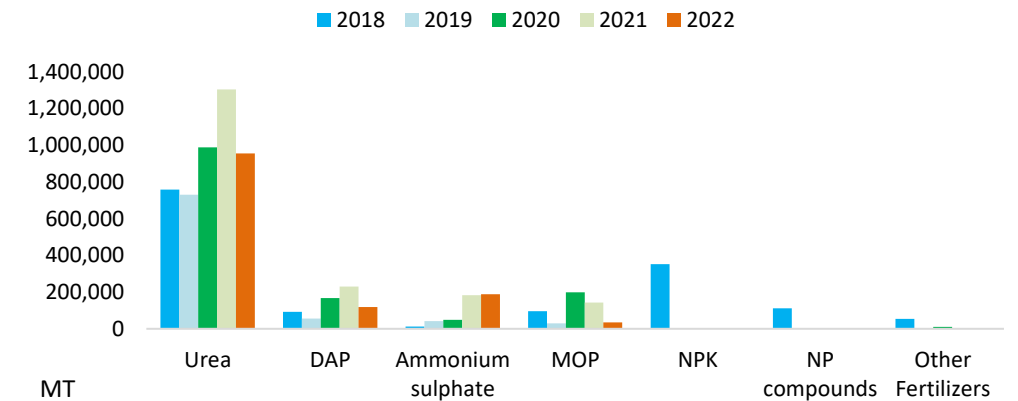
<https://vifaanigeria.org/#/nigeria/availability>

Fertilizer Apparent Consumption

NIGERIA

HS Code	Fertilizer Name	2018	2019	2020	2021	2022
3102100000	Urea	758,499	730,151	988,343	1,303,423	955,980
3105300000	DAP	92,956	56,800	168,181	229,588	118,678
3102210000	Ammonium sulphate	12,022	41,533	49,056	182,845	188,740
3104200000	MOP	95,373	29,275	199,733	142,846	34,996
3105200000	NPK	351,821	1,785	1,016	27	-
3105510000	NP compounds	111,500	-	-	-	-
	Other Fertilizers	53,779	2,064	11,316	576	110
Total (mt)		1,475,950	861,609	1,417,646	1,859,306	1,298,505

TOP FERTILIZER APPARENT CONSUMPTION PER YEAR (2018 - 2022)

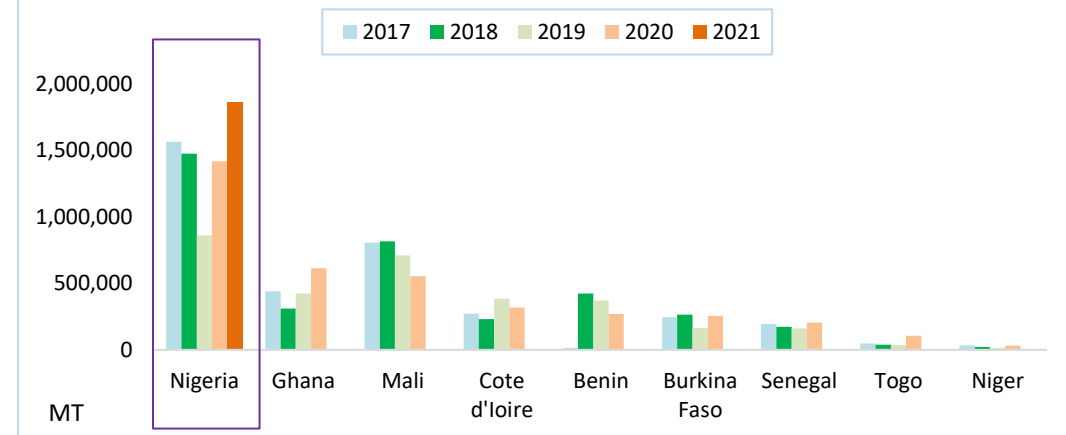


Comments

- There was a 30% decrease in apparent consumption from 2021 to 2022.
- The apparent consumption in 2022 was 1,298,505mt after a carry over of 301,353mt from 2022 into 2023 was subtracted.
- The high prices of fertilizers also resulted in low demand hence the decrease in apparent consumption.
- The delay in the importation of raw materials for blending, resulted in late arrival of fertilizers in the local market, reducing the offtake by the farmers

NB: Apparent consumption = 2021 Carryover + Production + Imports – Exports – Non Fertilizer Use – 2022 Carry over stock

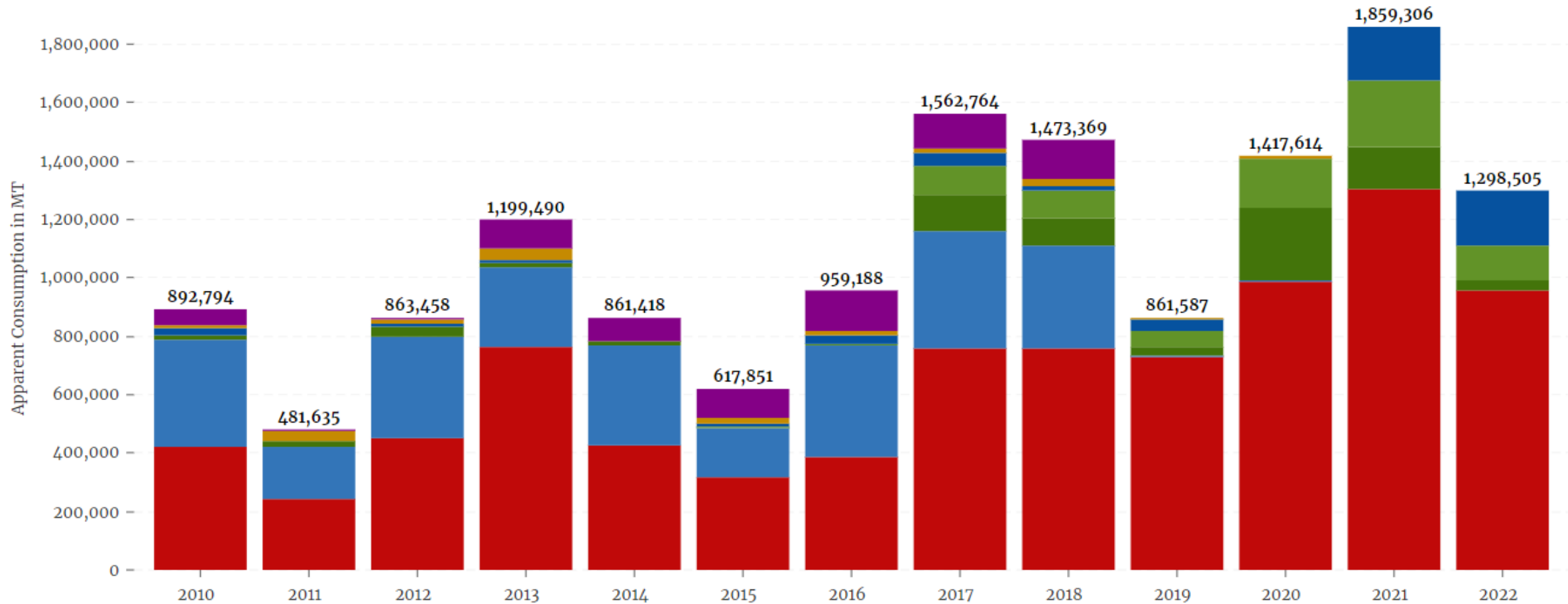
WA FERTILIZER APPARENT CONSUMPTION IN 2017 - 2021



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

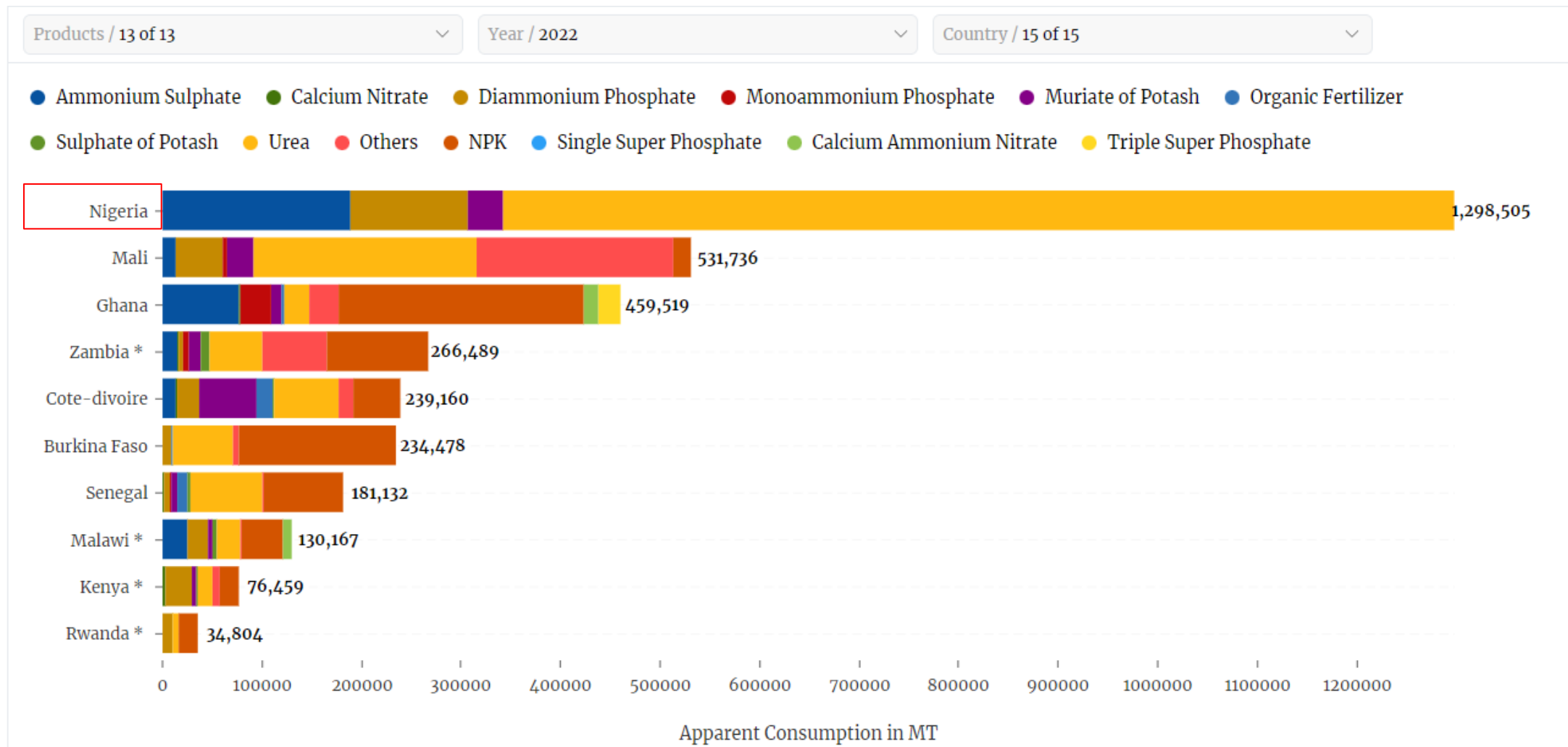
Fertilizer Apparent Consumption on the Dashboard **NIGERIA**

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



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

Fertilizer Apparent Consumption by Country NIGERIA



S/N	NPK PRODUCTION 2022 (Estimates)	
1	NPK 12 12 17	2,124.50
2	NPK 15 15 15	171,526.48
3	NPK 20 10 10	212,471.85
4	NPK 20 10 5	75,341.35
5	NPK 27 13 13	15,384.45
6	OTHER NPK BLENDS	24,025.55
7	NPK BLENDS (FILTERS)	52,764.98
	TOTAL	553,639.16

Source: Fertilizer Producers and Suppliers Association of Nigeria (FEPSAN)

Comments

- The restriction on forex, on fertilizers and the ban on imported finished NPK into Nigeria from Q4 of 2018, has led to the importation of fertilizer raw materials, which has encouraged the growth of local NPK blending industry in the country.
- Using imported MOP and DAP together with locally manufactured Urea, more than 550,000mt of NPKs were blended to serve farmers in 2022.
- NPK 20-10-10 and NPK 15-15-15 were the highest in terms of production volume, as they are the commonly used NPK blends in the country, and this accounts for 69% of the entire blend for 2022.
- NPK 20-10-5 which is a new blend is beginning to gain acceptance in the market as it records 14% of the total blend for 2022.
- The Estimated volume of NPKs consumed in 2022 stood at 529,621.23, while 24,017.93 representing 4.3% of the NPK blends produced in 2022 was carried over into 2023.
- AfricaFertilizer through the Nigeria Private Sector (NPS) would in the later part of year 2023 conduct an NPK_TWG to validate the NPK figures.

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

Summary of 2022 Fertilizer Statistics

NIGERIA

HS Code	Product Name	Carry over from 2021 to 2022	Production	Total imports	Export	Industrial	Fertilizer Import	Carry over from 2022 to 2023	2022 Apparent Consumption
3102100000	Urea	48,932	3,458,740		2,522,113			29,579	955,980
3102210000	Ammonium Sulphate	55,024		187,297			187,297	53,581	188,740
3105300000	DAP	62,570		177,776			177,776	121,668	118,678
3104200000	MOP	33,445		111,313	12,400	837	110,476	96,525	34,996
3101000000	Organic Fertilizer			84		17	67		67
2834210000	Potassium Nitrate			27			27		27
9999999990	Bioestimulant, Micronutrients, Sample			16			16		16
3103900000	Other phosphate			0			0		0
2510100000	Phosphate rock			26		26	-		-
2814200000	Ammonium hydroxide			2,011		2,011	-		-
3102300000	Ammonium nitrate			34		34	-		-
3102500000	Sodium nitrate			1,247		1,247	-		-
3104300000	Sulphate of Potash			23		23	-		-
3104900000	Other Potash fertilizer			400		400	-		-
3105200000	NPK			1	6,010		1		(6,009)
2022 Total (mt)		199,971	3,458,740	480,258	2,540,523	4,597	475,661	301,353	1,298,505
2021 Total (mt)			2,701,279		1,348,924		706,922		1,859,306
% Change			28%		88%		-33%		-30%

Comments

In 2022;

- Urea production was 3,458,740mt, a 28% increase from 2021
- There was increase in production capacity as Dangote's train 2 started operation in 2022.
- Total fertilizer import was 475,661mt, a 33% decrease from 2021 import.
- 2019 import of 131,458mt is the lowest since 2010.
- Urea export from Nigeria increased by 88% from 2021.
- Fertilizer apparent consumption decreased by 30% from 2021.
- Using imported MOP and DAP together with locally manufactured Urea, more than 550,000mt of NPKs were blended to serve farmers in 2022.
- It was observed that there was land export to other neighboring countries

- Security apparatus should be sensitized on legalizing the framework around distribution and movement of fertilizer to other neighbouring countries through the land borders.
- There is the need to include limestone (filler) figures in the validation process going forward as limestone companies are growing in number, as it is also an important part of NPK blends, and accounts for 26% of the production.
- There is the need to import more fertilizers raw materials into the country to downward-correct the current in-country high prices at retail points to enable farmers get these products at affordable prices.
- As we do pre-validation with suppliers of the data, validation at national level, it is important to also consider post validation at regional level going forward, in order to harmonize data from different countries, as we see products flowing across the countries in West Africa.
- It is important to make land export more efficient rather than looking for ways to control it, as this creates value for the producers, agrodealers etc as this gives them more access to West African countries.

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NIGERIA

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Participants of 2022 FTWG

NIGERIA



Partners of 2022 FTWG

NIGERIA



Fertilizer Producers & Suppliers Association of Nigeria



The **AfricaFertilizer** 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.



AfricaFertilizer.org



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