

FERTILIZER STATISTICS OVERVIEW KENYA 2017 - 2021

2022 Edition – Version 1

Outline

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

Background Information

- Overview of fertilizer statistics in Kenya from 2017 – 2021.
- Emphasis on 2021, and each analysis is based on the products with higher quantities.
- Official trade data obtained from the Kenya Revenue Authority (KRA) and validated by Fertilizer Technical Working Group – Kenya (FTWG-KEN).
- 2021 data validated from 25th – 26th May, 2022.

Fertilizer Production

KENYA

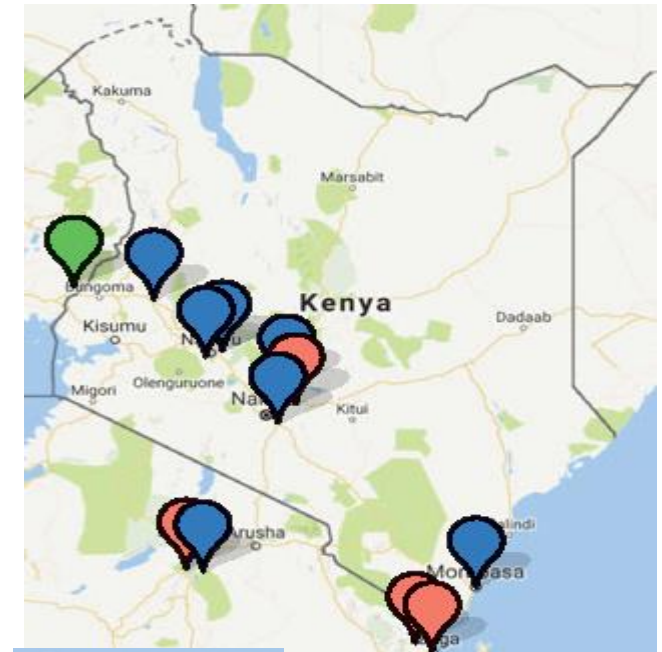
HS Code	Product	2014	2015	2016	2017
3103100000	SSP	2,500	3,000	3,000	2,500

*2016 & 2017 estimates from FTWG-KEN

Comments

- KEL Chemicals Limited produces phosphate fertilizer SSP in Kenya. There has been no production since the beginning of 2018.
- 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.
- CFAO Agri Limited (Formally Toyota Tshusho), MEA Fertilizers, Export Trading Company Limited, Fertiplant East Africa, Kel Chemicals Limited and Maisha Minerals & Fertilizers Limited are involved in blending of fertilizers in Kenya. They blend different grades of NPK for the local and regional markets.

Fertilizer Plants in Kenya

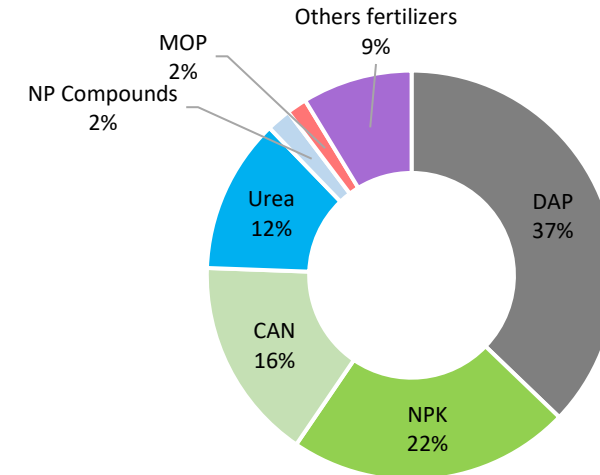


Fertilizer Import

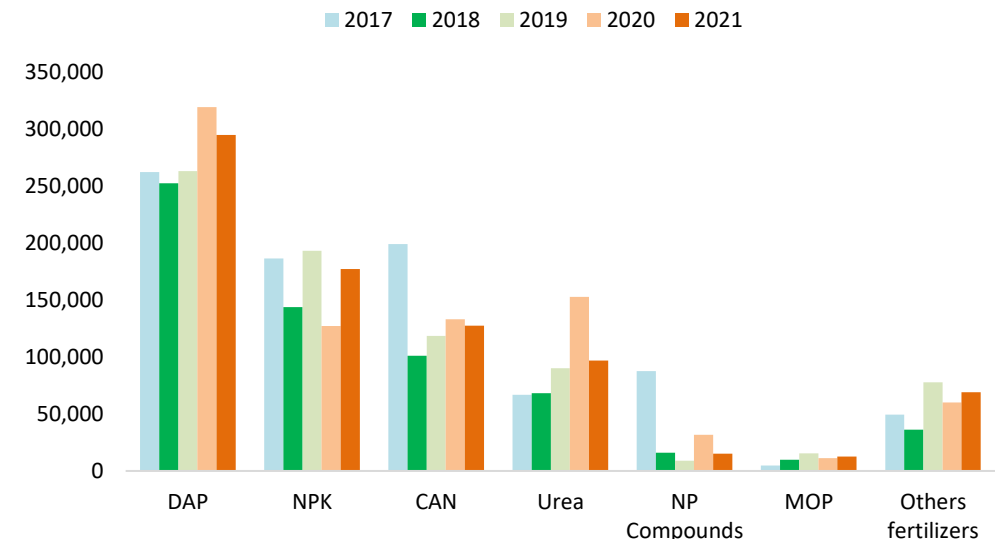
KENYA

HS Code	Fertilizer Name	2017	2018	2019	2020	2021
3105300000	DAP	261,939	252,199	262,897	319,039	294,696
3105200000	NPK	186,377	143,621	193,057	127,143	177,117
3102400000	CAN	198,806	100,950	118,268	132,900	127,223
3102100000	Urea	66,720	68,045	89,996	152,537	96,865
3105510000	NP Compounds	87,383	15,894	8,843	31,768	15,176
3104200000	MOP	4,642	9,646	15,370	11,142	12,614
	Others fertilizers	49,178	36,063	77,696	60,020	68,978
Total (mt)		855,045	626,418	766,126	834,549	792,670

TOP 6 IMPORTED FERTILIZERS 2021



TOP FERTILIZER IMPORTS PER YEAR



Comments

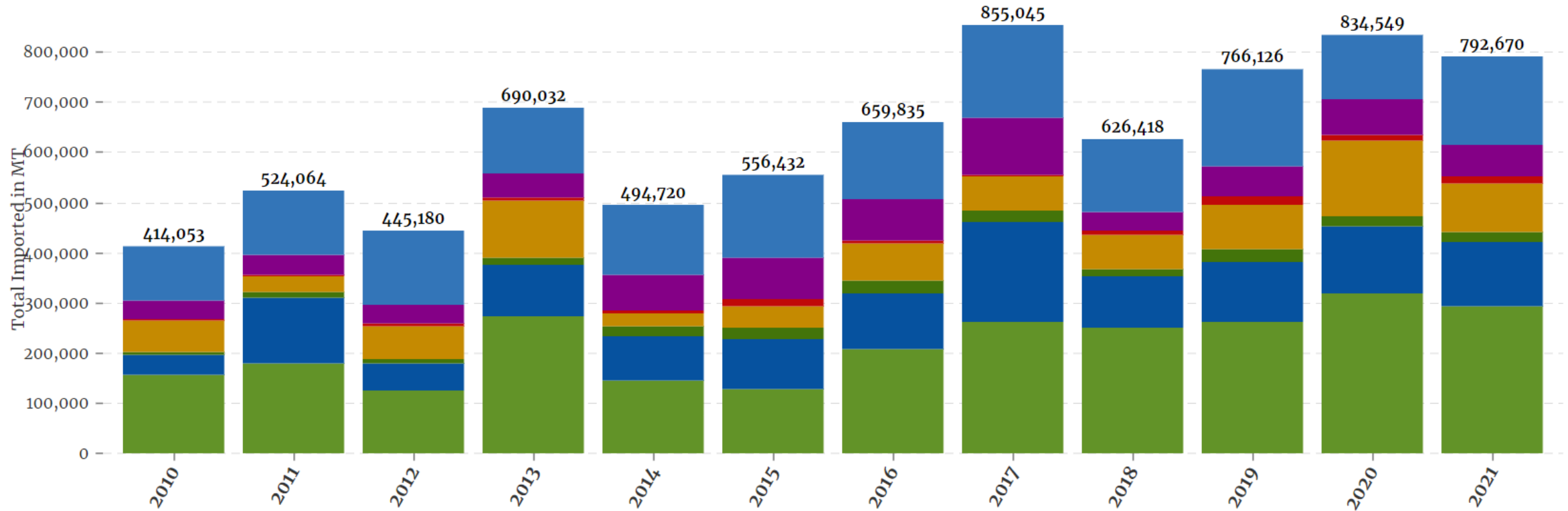
- Official fertilizer imports to Kenya decreased from 834,549mt in 2020 to 792,670mt (5%) in 2021
- In 2021, there were 792,670mt of fertilizers officially imported into Kenya out of which 1,096mt were identified to be enhancers (products that promote healthy plant growth including bio stimulants, micronutrients, etc)
- DAP, NPK, CAN, Urea, NP Compounds and MOP are the most imported fertilizers in Kenya which accounted for 91% of total fertilizer imports in 2021.

<https://vifaakenya.org/#/kenya/availability>

Fertilizer Import on Dashboard

KENYA

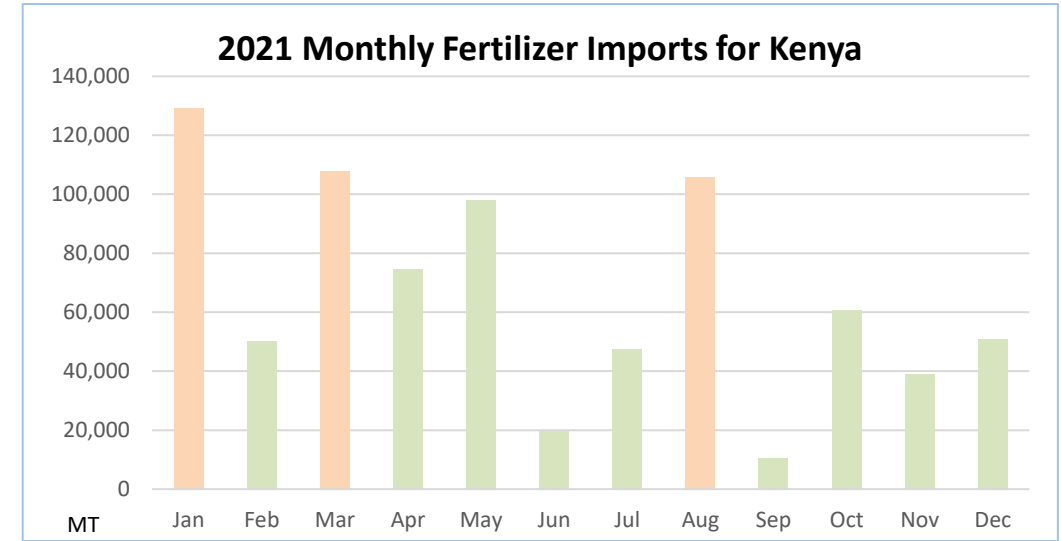
● Calcium Ammonium Nitrate ● Calcium Nitrate ● Diammonium Phosphate ● Muriate of Potash ● NPK ● Urea ● Others



Fertilizer Monthly Import

KENYA

Quarter	2016	2017	2018	2019	2020	2021
Q1	216,990	289,472	247,294	271,814	259,352	287,084
Q2	235,655	201,398	147,610	234,693	118,873	191,942
Q3	151,610	231,554	125,807	132,759	231,062	163,316
Q4	55,580	132,622	105,707	126,860	225,262	150,328
Total (mt)	659,835	855,045	626,418	766,126	834,549	792,670



Comments

- In 2021, fertilizer imports were significant across almost all the months.
- Notable months includes January, March and August. Most of the December imports are expected to be used in 2022.
- Fertilizer demand peaks in the first half of the year, according to the agricultural crop calendar.
- About 60% of 2021 total fertilizer imports occurred in the first half of the year.

Crop Calendar

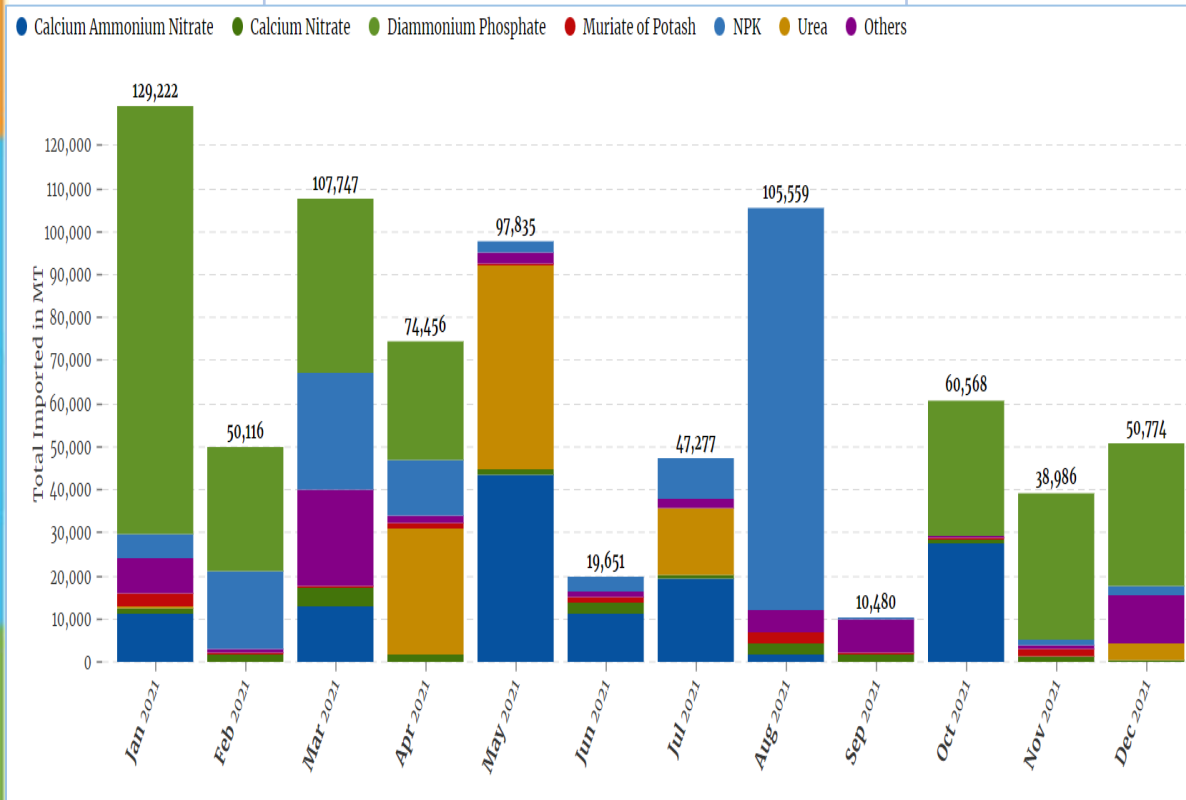
SEASON	CROPS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Major Season (Long Rains)	Beans			◆	◆	◆	◆	◆	◆	◆	◆		
	Maize			◆	◆	◆	◆	◆	◆	◆	◆	◆	
	Millet			◆	◆	◆	◆	◆	◆	◆	◆	◆	
	Sorghum		◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
	Wheat					◆	◆	◆	◆	◆	◆	◆	
	Rice												
Minor Season (Short Rains)	Maize, Millet, Sorghum, Beans, Barley	◆	◆	◆							◆	◆	◆

Key: ◆ Fertilizer Peak Demand Sowing Growing Harvesting

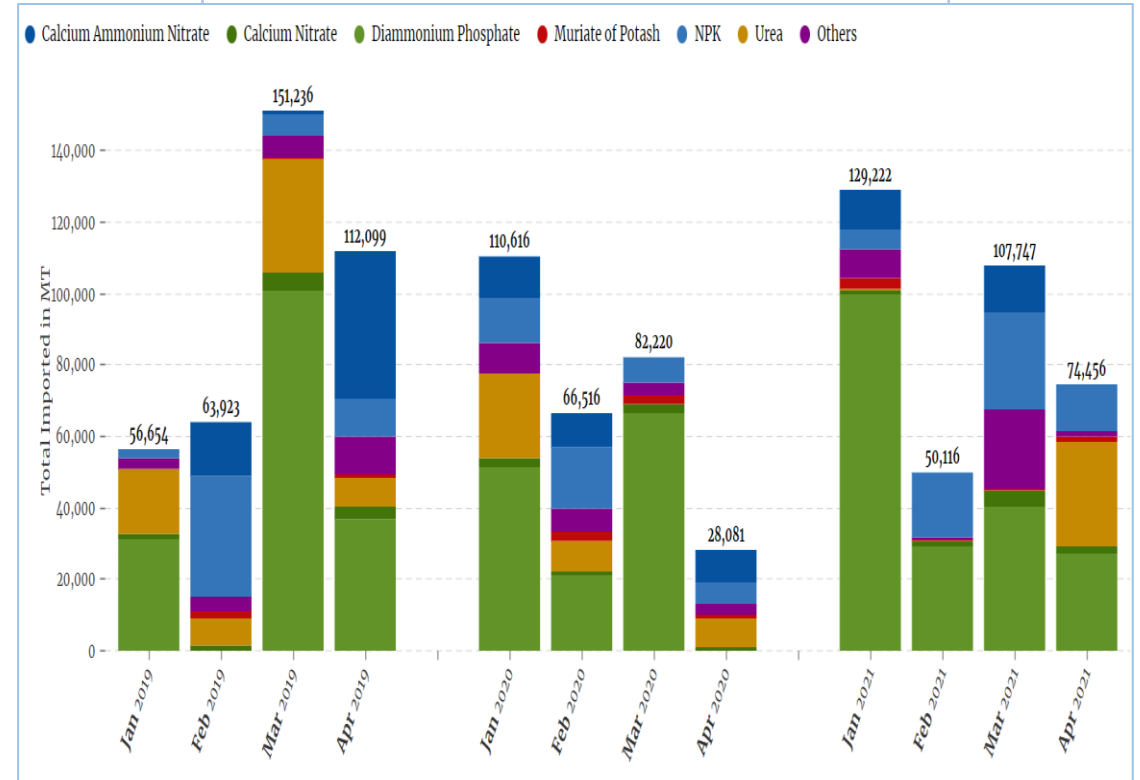
Source : FAO/GIEWS,
Fertilizer Demand: AfricaFertilizer.org

Fertilizer Monthly Import on Dashboard KENYA

Monthly Import - 2021



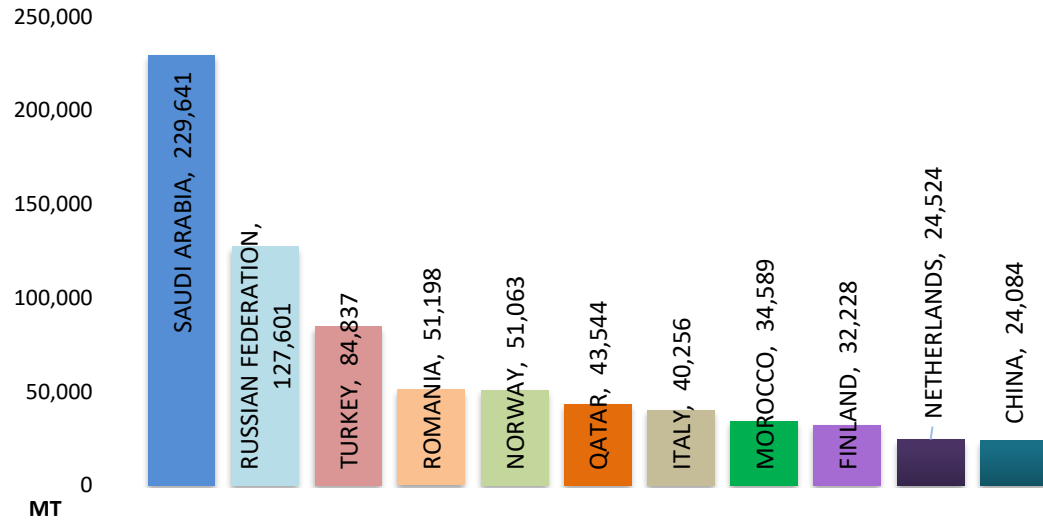
Consecutive Periods – 2019-2021



2021 Fertilizer Origins

KENYA

TOP COUNTRIES OF ORIGIN



Countries of Origin	Saudi Arabia	Russia	Turkey	Romania	Norway	Qatar	Italy	Other Countries
DAP	66%	21%	-	-	-	-	-	12%
NPK	-	25%	0%	29%	20%	-	4%	22%
CAN	2%	4%	67%	-	-	-	25%	2%
Urea	32%	-	-	-	-	45%	-	23%
NP Compounds	-	94%	-	-	-	-	-	6%
MOP	-	5%	-	-	-	-	-	95%
Others fertilizers	-	1%	-	-	22%	-	3%	74%



Most MOP were imported from Belarus, Lithuania and Jordan

2021 Fertilizer Origins on Dashboard

KENYA

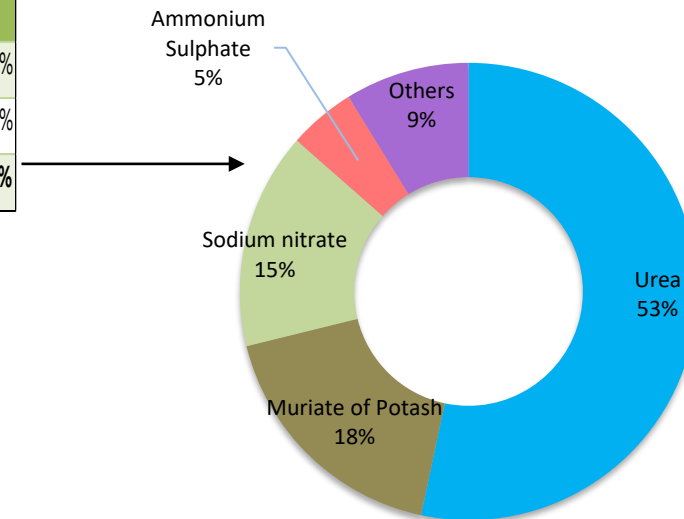


Agricultural and Non-agricultural Uses

KENYA

Usage	2017		2018		2019		2020		2021	
	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%
Agriculture	855,045	99.9%	626,418	99.7%	766,126	99.8%	834,549	99.9%	792,670	99.9%
Industrial/Mines	874	0.1%	1,750	0.3%	1,298	0.2%	578	0.1%	528	0.1%
Total (mt)	855,919	100.0%	628,168	100.0%	767,424	100.0%	835,126	100.0%	793,198	100.0%

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 0.1% of the fertilizer products imported are used for industrial purposes.

NPK Import Analysis

KENYA

HS Code	Fertilizer Name	2017	2018	2019	2020	2021
3105200000	Total NPK	186,377	143,621	193,057	127,143	177,117
3105510000	Total NP	87,383	15,894	8,843	31,768	15,176
3105700000	Total NK	-	-	-	1,009	596
3105600000	Total PK	197	296	338	209	334
3105900000	NPK (Unknown Grade)	-	-	-	-	-
Total (mt)		273,957	159,811	202,237	160,129	193,223

NPK, NP, PK and NK Import	2021
NPK 26-5-5	72,004
NPK 17-17-17	37,629
NPK 13-24-10 + 2MgO	14,500
NP 23-23-0	14,207
NPK 25-5-10	12,889
NPK 22-6-12	9,900
NPK 27-6-6	8,299
NPK 25-5-5 + 5S	7,800
NPK	4,884
NPK 15-9-20	2,800
NPK 25-10-5	1,484
NPK 10-25-0	1,188
Others	5,639
Total (mt)	193,223

Comments

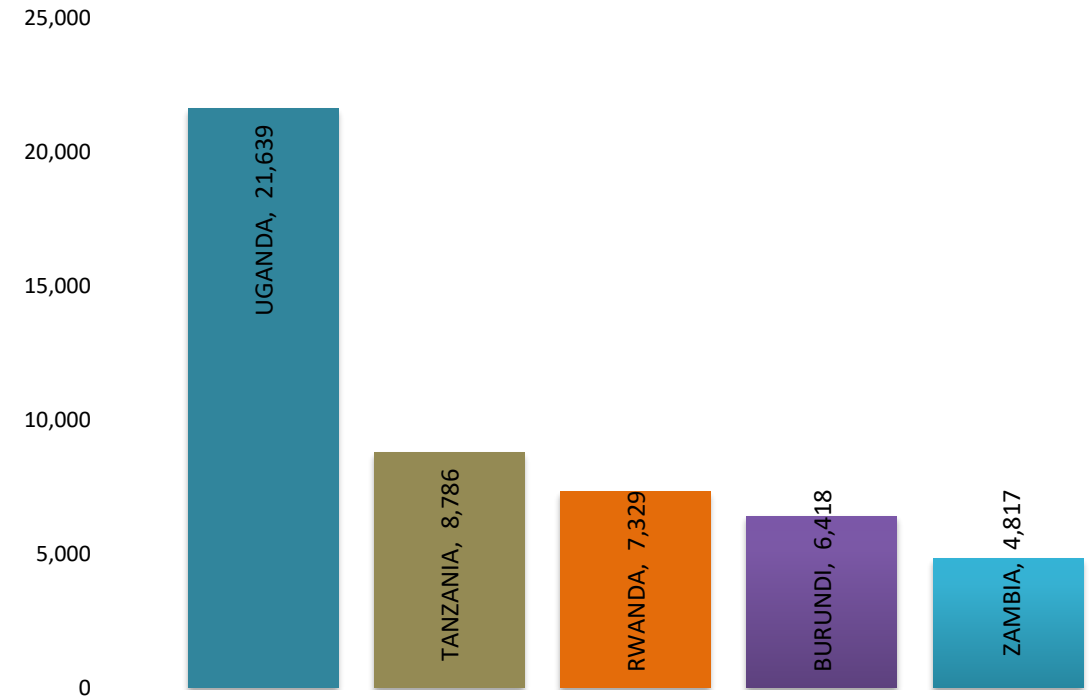
- Blending companies import Urea, TSP, DAP, MAP and MOP to blend different formulations of NPK for farmers in Kenya and in the region.
- Blenders and other major fertilizer importing companies also import finished NPK with various grades to sell directly to farmers.
- Above table represents the breakdown of NPK compounds that was imported to Kenya in 2021

Fertilizer Re-Exports & Destinations

KENYA

HS Code	Fertilizer Name	2017	2018	2019	2020	2021
3105200000	NPK	36,618	44,437	30,936	33,202	22,848
3102100000	Urea	5,214	13,497	2,437	2,075	7,993
3105300000	DAP	9,391	17,376	8,871	7,377	5,961
	Other fertilizers	4,535	6,666	9,075	7,615	14,155
Total (mt)		55,757	81,977	51,319	50,268	50,957

COUNTRIES OF DESTINATION (EXPORTS)



Comments

- Official "re-exports" from Kenya are mostly sent to Uganda, Tanzania, and Rwanda
- There was a 1% increase from 2020 to 2021 in fertilizers re-exported from Kenya.
- NPK, Urea, and DAP accounted for about 72% of total re-exports

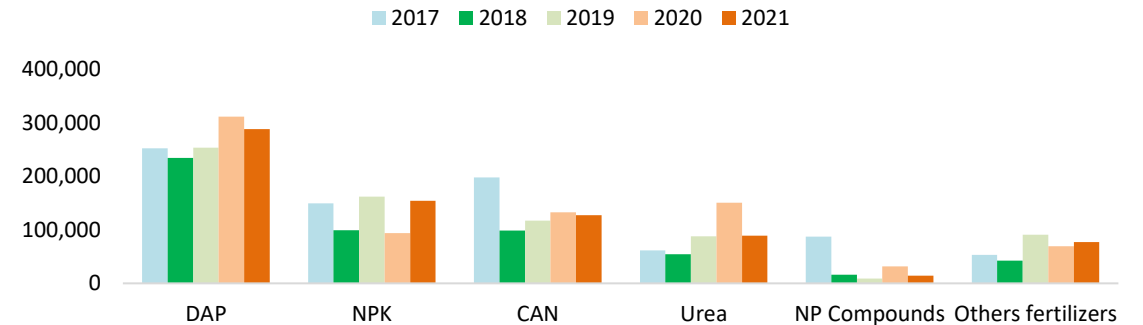
MT	UGANDA	TANZANIA	RWANDA	OTHER COUNTRIES
NPK	52%	33%	8%	7%
Urea	98%	-	-	2%
DAP	11%	1%	84%	4%
Other fertilizers	9%	9%	3%	79%
	42%	17%	14%	26%

Fertilizer Apparent Consumption

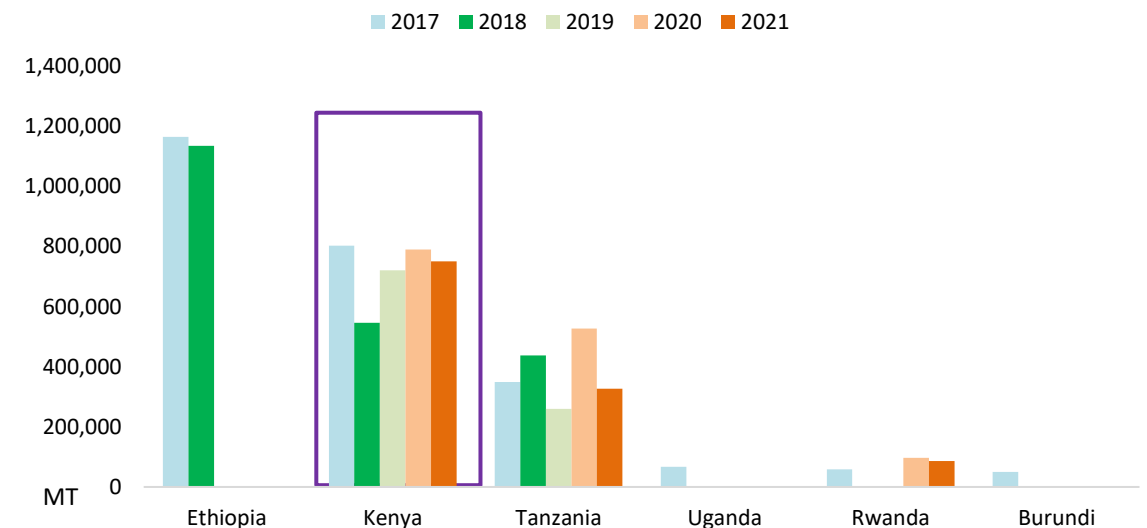
KENYA

HS Code	Fertilizer Name	2017	2018	2019	2020	2021
3105300000	DAP	252,548	234,823	254,026	311,662	288,735
3105200000	NPK	149,759	99,184	162,121	93,942	154,269
3102400000	CAN	198,293	98,655	116,904	132,680	127,217
3102100000	Urea	61,506	54,547	87,559	150,463	88,872
3105510000	NP Compounds	87,354	15,894	8,843	31,766	13,934
	Others fertilizers	52,955	42,572	90,812	69,115	77,061
Total (mt)		802,416	545,675	720,265	789,628	750,089

FERTILIZER APPARENT CONSUMPTION PER YEAR (2017 - 2021)



EA FERTILIZER APPARENT CONSUMPTION



Comments

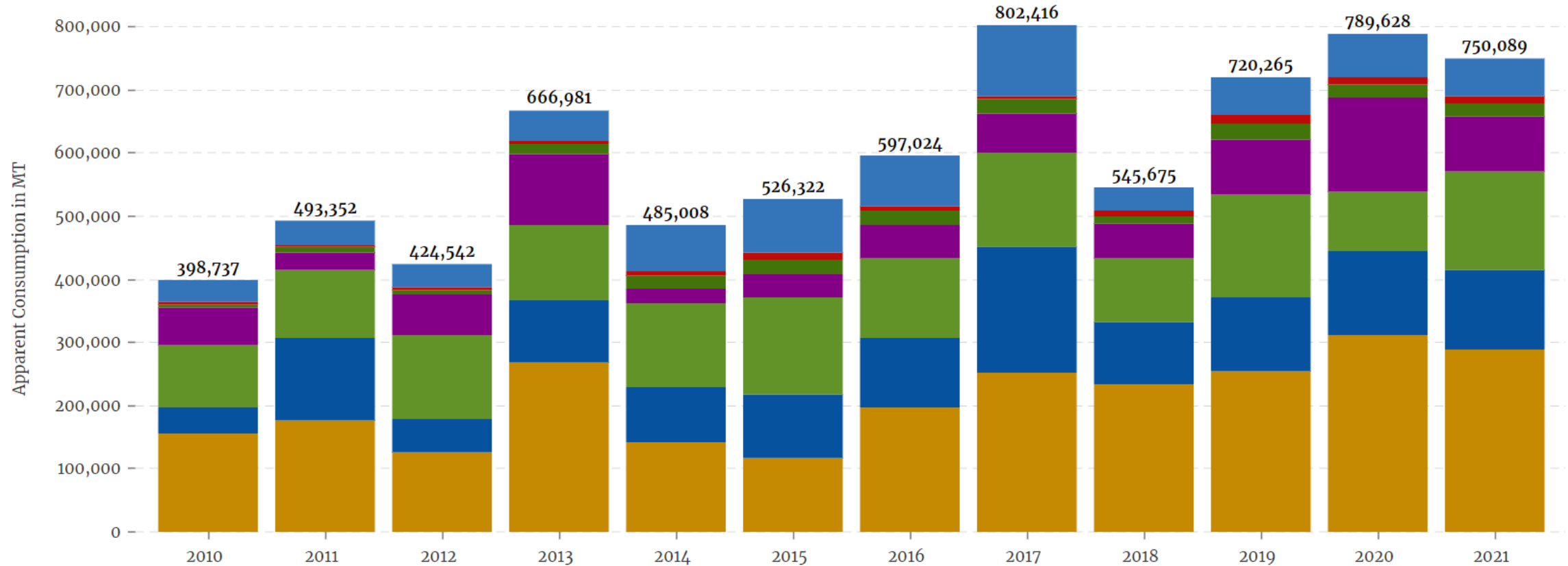
- Apparent consumption of fertilizers in Kenya decreased from 789,628mt in 2020 to 750,089mt (5%) in 2021
- The 5% decrease from 2020 to 2021 could be due to supply disruptions from the global crisis
- The slight rate of decrease could be attributed to the resilience to the fertilizer market crisis
- The slight rate of decrease could be attributed to the resilience to the fertilizer market crisis
- Carryover stocks for these years remain unknown.

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

Fertilizer Apparent Consumption on Dashboard

KENYA

● Calcium Ammonium Nitrate ● Calcium Nitrate ● Diammonium Phosphate ● Muriate of Potash ● NPK ● Urea ● Others



<https://vifaakenya.org/#/kenya/use>

Summary of 2021 Fertilizer Statistics

KENYA

New HS code	Product	Production	Total Import	Exports	Non Fertilizer Use	Fertilizer Imports	Apparent Consumption
3105300000	Diammonium Phosphate		294,720	5,961	24	294,696	288,735
3105200000	NPK		177,138	22,848	21	177,117	154,269
3102400000	Calcium Ammonium Nitrate		127,223	6		127,223	127,217
3102100000	Urea		97,147	7,993	282	96,865	88,872
3102600000	Calcium Nitrate		20,646	461		20,646	20,185
3102210000	Ammonium Sulphate		17,917	121	25	17,892	17,771
3105510000	NP		15,176	1,242		15,176	13,934
3104300000	Sulphate of Potash		14,175	558	0	14,175	13,617
3104200000	Muriate of Potash		12,708	913	94	12,614	11,701
9999999990	Enhancers		8,977	280	0	8,977	8,697
3101000000	Organic Fertilizer		1,768	59	1	1,767	1,707
3103900000	Other phosphate		1,460	15		1,460	1,445
3103101000	Triple Super Phosphate		1,065	30		1,065	1,035
3105700000	NK		596			596	596
3105600000	PK		334	65		334	270
2834210000	Potassium nitrate		100	62		100	38
3102300000	Ammonium Nitrate		0		0		-
3102500000	Sodium nitrate		81		81		-
3102900000	Other Nitrogen		178	356		178	- 178
3104900000	Other Potash fertilizer		0	227		0	- 227
3105400000	Monoammonium Phosphate		1,790	4,107	0	1,790	- 2,317
3103100000	Single Super Phosphate		0	5,653		0	- 5,653
Grand Total (mt)		-	793,198	50,957	528	792,670	750,089

Participants of 2021 FTWG

KENYA

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Participants of 2021 FTWG

KENYA



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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

[Kenya 2021 FTWG validation workshop report](#)

[Kenya 2021 Fertilizer Factsheet](#)

[VIFAA Kenya Dashboard](#)