



# FERTILIZER STATISTICS OVERVIEW

## RWANDA

### 2019 - 2023

2024 EDITION

# Partners of 2024 FTWG

# RWANDA



# Rwanda

## Outline

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

## Background Information

- Overview of fertilizer statistics in Rwanda from 2019 – 2023
- Emphasis on 2023, and each analysis is based on the products with higher quantities.
- Official trade data obtained from Rwanda Agriculture and Animal Resources Development Board (RAB).
- Validated by Fertilizer Technical Working Group.
- 2023 data validated from 16<sup>th</sup> – 17<sup>th</sup> July, 2024.

# Fertilizer Production

## RWANDA

### Comments

- There is no primary production of inorganic fertilizers in Rwanda.
- Enterprise Nkubili (ENAS) set up a blending facility in Kigali in 2016, but it has since ceased operations.
- Rwanda Fertilizer Company (RFC), a joint venture between OCP Africa, Agaciro Development Fund and Agro Processing Trust Corporation Ltd (APTC), was launched in December 2023 with an annual capacity to blend 100,000 MT of fertilizer.
- Key players in the importation of fertilizers into Rwanda include Yara, ETG, Rwanda Fertilizer Company (RFC) and One Acre Fund.

### Fertilizer Plants in Rwanda



- Manufacturing
- Processing
- New Plant
- Organic

# Fertilizer Import

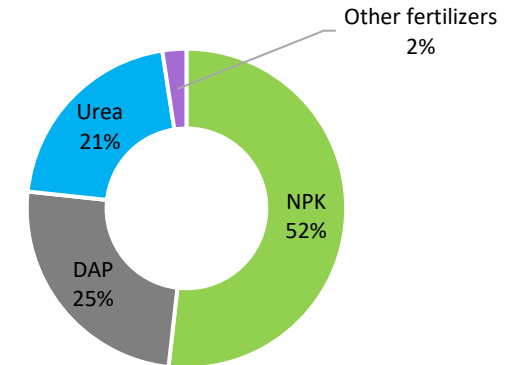
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Fertilizer Name	2019	2020	2021	2022	2023
NPK	36,900	46,645	38,317	43,868	53,836
DAP	27,163	25,936	27,117	38,989	25,873
Urea	18,936	22,644	18,662	18,546	21,713
Other fertilizers	2,652	1,163	1,709	2,415	2,518
<b>Total (MT)</b>	<b>85,651</b>	<b>96,389</b>	<b>85,806</b>	<b>103,818</b>	<b>103,940</b>

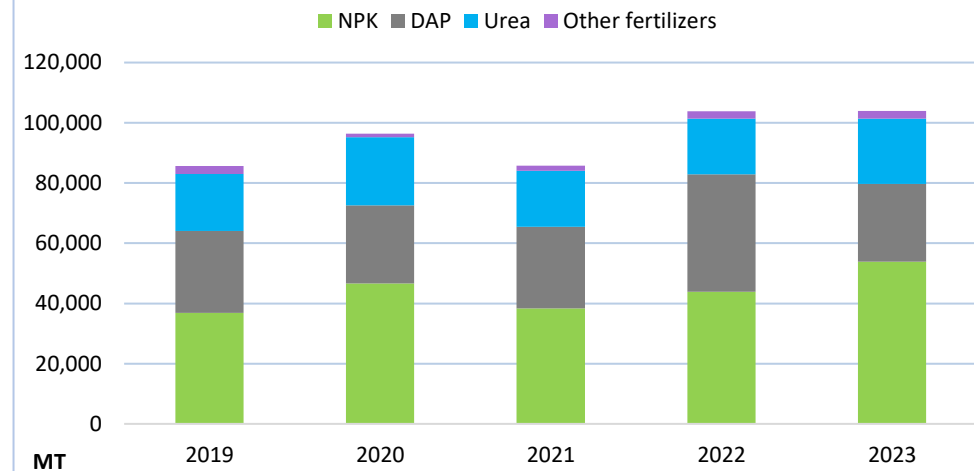
## Comments

- Historically, Rwanda has imported various grades of NPK, DAP, and Urea fertilizers.
- Over the past five years, there has been a consistent overall upward trend in fertilizer importation.
- In 2023, there was a very slight increase in fertilizer volumes compared to 2022, with the import volumes being almost the same for both years.
- In 2023:
  - Favorable weather conditions during both seasons (A & B) led to increased fertilizer importation and use.
  - The zero-grazing policy implemented in the Eastern Province of Rwanda, where 75% of pastureland was designated for crop cultivation, resulted in higher fertilizer importation and use.
  - The fertilizer subsidy program for staple crops implemented in the country also boosted fertilizer consumption by making it more available and affordable to most farmers.

## TOP IMPORTED FERTILIZERS 2023



## TOP FERTILIZER IMPORTS PER YEAR



# NPK Import Analysis

# RWANDA

NPK Import	2019	2020	2021	2022	2023	Major Crops
NPK 17-17-17	20,692	20,155	22,460	21,437	28,323	Irish Potato, Rice and Vegetables
NPK 25-5-5 + 4S	5,718	14,353	7,456	13,955	9,641	Tea
NPK 22-6-12 + TE	7,842	5,067	3,631	3,942	6,136	Coffee
NPK 23-10-5 + TE	1,437	4,635	2,085	3,164	2,553	Maize, Wheat, Beans, Coffee, Soyabean, other cereals
NPK 15-9-20 + 4S	952	1,408	1,308	748	1,407	Irish Potato, Rice and Vegetables
NPK 25-5-5					4,685	Tea
Other NPKs	259	1,028	1,378	623	1,092	
<b>Total (MT)</b>	<b>36,900</b>	<b>46,645</b>	<b>38,317</b>	<b>43,868</b>	<b>53,836</b>	

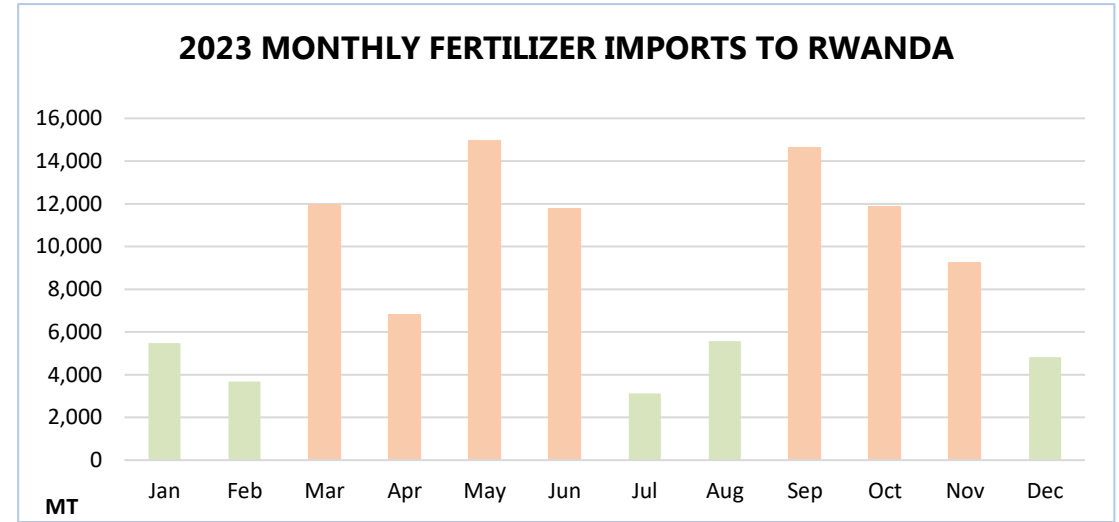
## Comments

- The table above lists the most imported NPKs, their volumes over the years, and the crops they are commonly used on.
- Major fertilizer companies import finished NPKs in various grades to sell directly to farmers. These NPKs are used as basal fertilizers.
- Additionally, NPK imports have shown steady growth, although they fluctuate in a pattern similar to the total import volumes.

# Fertilizer Monthly Import

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Quarter	2019	2020	2021	2022	2023
Q1	11,564	12,907	13,969	16,788	21,118
Q2	16,064	20,204	25,703	19,029	33,571
Q3	30,140	39,511	29,864	49,608	23,330
Q4	27,884	23,767	16,270	18,393	25,921
<b>Total (mt)</b>	<b>85,651</b>	<b>96,389</b>	<b>85,806</b>	<b>103,818</b>	<b>103,940</b>



## Comments

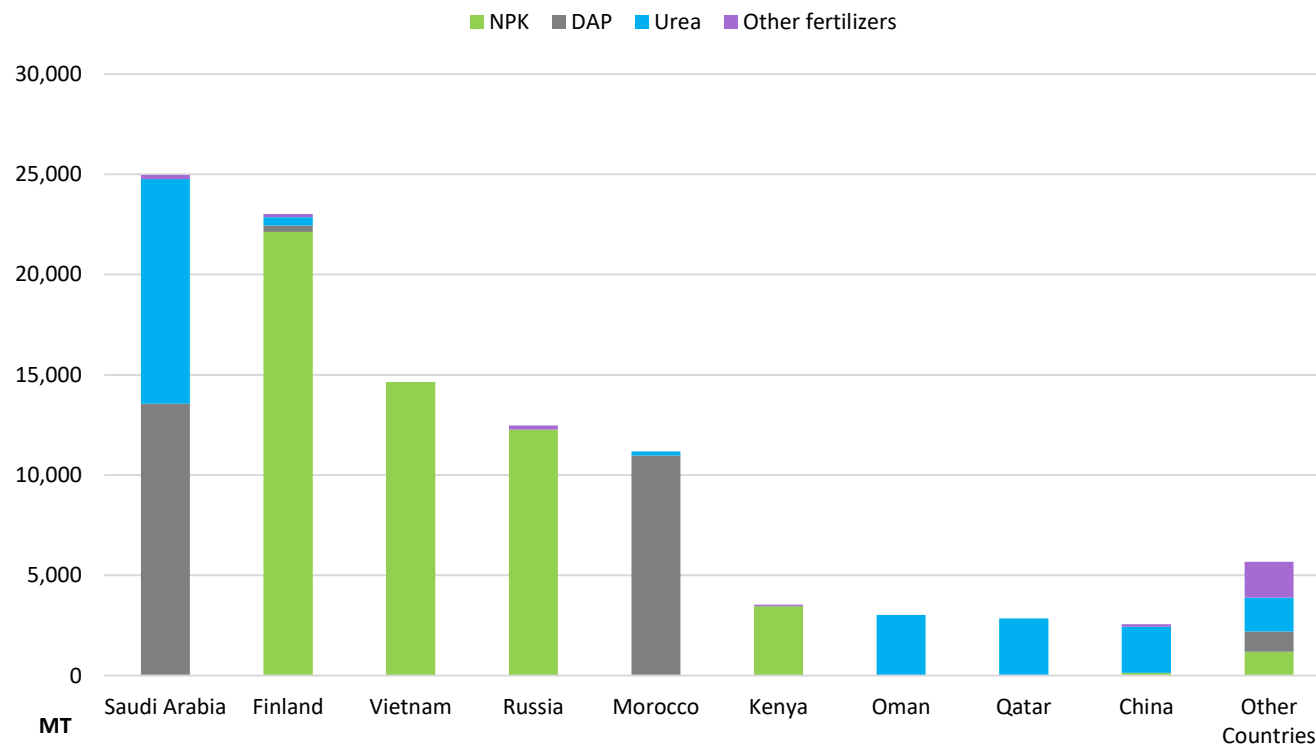
- In Rwanda, the initial planting season (A Season) commences in September of a given year and extends until January of the subsequent year. Following this, the second planting season (B Season) takes place from February to June.
- Additionally, in marshy areas with ample water resources, a third agricultural season is observed for growing rice and vegetables.
- Fertilizer buying peaks are typically observed during September-November and March-June.
- In 2023, the peak import occurred in May, totaling 14,982 MT.

Crop Calendar	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>CROPS</b>												
Maize (A Season)									◆	◆		
Maize (B Season)		◆	◆									
Sorghum (A Season)									◆	◆		
Sorghum (B Season)		◆	◆									

Key: ◆ Fertilizer Peak Demand    Sowing    Growing    Harvesting

Source : FAO/GIEWS, Peak demand: AfricaFertilizer

## TOP COUNTRIES OF ORIGIN IN 2023



## Comments

- Rwanda's fertilizer imports are sourced from various countries.
- In 2023, 41% (22,130 MT) of NPKs came from Finland, 27% (14,651 MT) from Vietnam, 23% (12,267 MT) from Russia, 6% (3,451 MT) from Kenya, and 3% (1,337 MT) from other countries.
- Regarding DAP imports, 52% (13,550 MT) came from Saudi Arabia, 42% (10,971 MT) from Morocco, and 6% (1,352 MT) from other countries.
- For Urea, 52% (11,217 MT) were imported from Saudi Arabia, 14% (3,023 MT) from Oman, 13% (2,857 MT) from Qatar, 11% (2,302 MT) from China, and the remaining from other countries.
- Additionally, of the 1,459 MT of MOP imported, 1,000 MT (69%) originated from Germany.

HS Code	Fertilizer Name	2019	2020	2021	2022	2023
3105200000	NPK		1	158	96	0
	Others fertilizers			64		0
<b>Total (MT)</b>		<b>-</b>	<b>1</b>	<b>222</b>	<b>96</b>	<b>0</b>

## Comments

- Fertilizers imported into Rwanda are mainly for domestic use, resulting in minimal official re-exports to neighboring countries.
- Although unofficial cross-border exports to neighboring countries may occur, there are no available estimates or figures to quantify them.

# Fertilizer Apparent Consumption

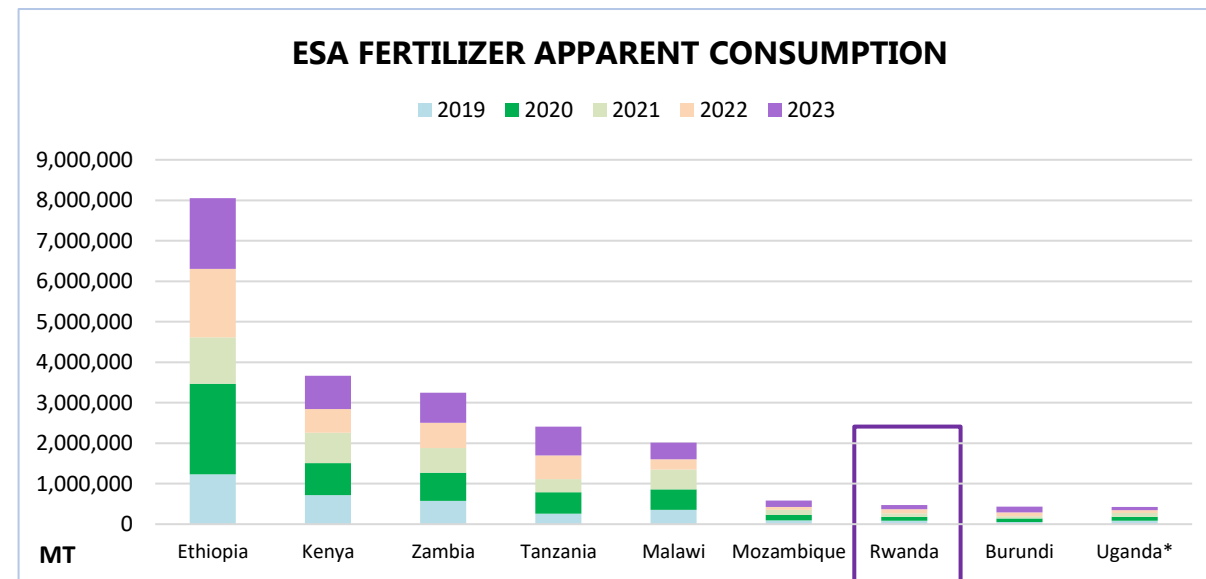
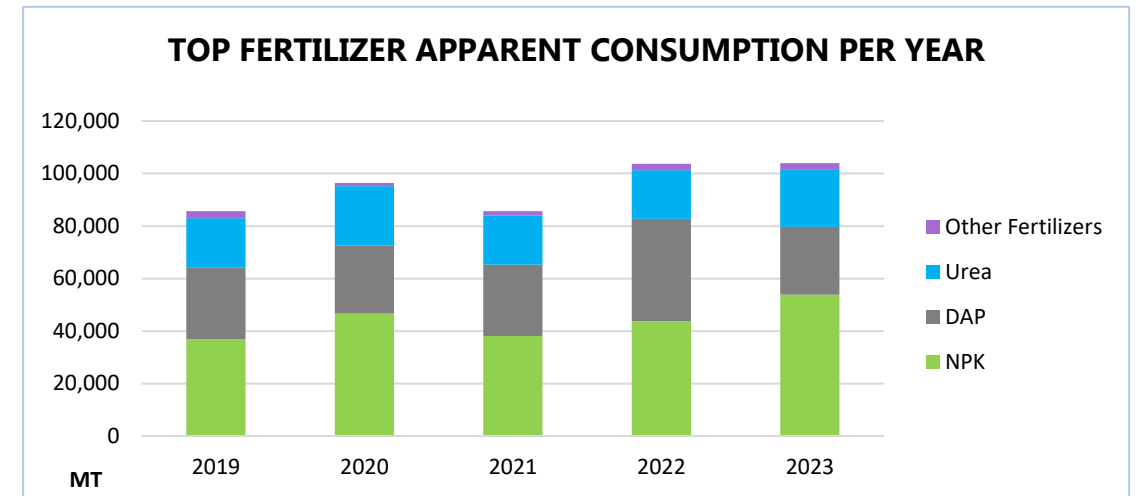
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Fertilizer Name	2019	2020	2021	2022	2023
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DAP	27,163	25,936	27,117	38,989	25,873
Urea	18,936	22,644	18,662	18,546	21,713
Other Fertilizers	2,652	1,163	1,707	2,415	2,518
	<b>85,651</b>	<b>96,388</b>	<b>85,645</b>	<b>103,722</b>	<b>103,940</b>

## Comments

- There was an insignificant increase (0.2%) in fertilizer apparent consumption, from 103,722 MT in 2022 to 103,940 MT in 2023.
- Favorable weather conditions, the zero-grazing policy, and the fertilizer subsidy program helped sustain this level of fertilizer usage.
- In 2023, staple crops covered under the subsidy program - such as maize, rice, beans, wheat, Irish potatoes, cassava, banana, soybean, fruits and vegetables - consumed about 73,000 MT of fertilizers. Cash crops like coffee and tea consumed approximately 21,000 MT of fertilizers.

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



- Graph as of July 20, 2024
- Countries with (\*) data yet to be validated

Key components of the fertilizer subsidy program in Rwanda comprise:

- ✓ Fertilizer importation and distribution is done by the private sector, Government provides subsidies to farmers.
- ✓ Farmers use the Smart Nkunganire System (SNS) for self-registration, where they provide their personal information, including national identity card details, Unique Parcel Identifier (UPI) of their land, and the intended crops to be planted.
- ✓ Information fed into the SNS system is approved by the local government (Sector Agronomist).
- ✓ The SNS system then calculates the required quantity of seeds and fertilizers, along with their costs.
- ✓ The Mobile Application Ordering Process (MOPA), an enhanced feature of SNS, enables agrodealers to purchase and sell inputs under Government subsidy – Stock Management app.
- ✓ Registered farmers can conveniently place fertilizer orders directly from their chosen agrodealers through SNS. Moreover, MOPA allows agrodealers to identify the number of farmers they should serve and manage fertilizer orders from suppliers within the platform.
- ✓ The integration of SNS and MOPA offers the government real-time tracking and monitoring of agri-input distribution across the country, ensuring efficient supply management and reducing supply challenges.
- ✓ Some of the challenges of the SNS include insufficient funds to upgrade and sustain it, lack of certain devices on some system touchpoint levels, network connectivity issues in remote areas, absence of adequate policies, and end-user's capacity building.
- ✓ The waiting period for the current tenders under the subsidy program is 1 year and it is an international tendering which include both local and international companies such as Yara, ETG ,OCP, RFC and One Acre Fund.

# Summary of 2023 Fertilizer Statistics

# RWANDA

HS code	Product	Production	Total Imports	Fertilizer Exports	Non Fertilizer Use	2023 Fertilizer Imports	2023 Apparent Consumption
3105200000	NPK		53,836	0		53,836	53,836
3105300000	Diammonium Phosphate		25,873			25,873	25,873
3102100000	Urea		21,713		0	21,713	21,713
3104200000	Muriate of Potash		1,494		35	1,459	1,459
3102600000	Calcium Nitrate		489			489	489
3102900000	Other Nitrogen Fertilizers		329			329	329
9999999990	Enhancers		54			54	54
3101000000	Organic Fertilizer		51	0		51	51
3105700000	NK Compounds		35			35	35
3103101000	Triple Super Phosphate		28			28	28
2510000000	Rock Phosphate		28			28	28
3105600000	Other PK Compound		18			18	18
2834210000	Potassium Nitrate		12			12	12
2834292000	Magnesium Nitrate		8			8	8
3103100000	Single Super Phosphate		7			7	7
3102210000	Ammonium Sulphate		0		0	0	0
3104900000	Other Potash Fertilizer		0			0	0
3104300000	Sulphate of Potash		0		0	0	0
3102300000	Ammonium Nitrate		360		360		-
3102500000	Sodium Nitrate		0		0		-
3105400000	Monoammonium Phosphate		0		0		-
<b>Grand Total (MT)</b>		-	<b>104,335</b>	<b>0</b>	<b>395</b>	<b>103,940</b>	<b>103,940</b>
<b>2022</b>			<b>104,150</b>	<b>96</b>	<b>332</b>	<b>103,818</b>	<b>103,722</b>
<b>% Difference</b>			<b>0.2%</b>	<b>-99.9%</b>	<b>18.9%</b>	<b>0.1%</b>	<b>0.2%</b>

# 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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