



# FERTILIZER STATISTICS OVERVIEW **ETHIOPIA** 2010 - 2022

2023 Edition

# Ethiopia

## Outline

1. Production
2. Import
3. NP compounds
4. Monthly import
5. Origins
6. Consumption (app)
7. Other comments
8. Summary

## Background Information

- Overview of fertilizer statistics in Ethiopia from 2010 – 2022.
- Official trade data obtained from Ministry of Agriculture and Natural Resources (MoANR) , Ethiopian Agricultural Businesses Corporation (EABC) and Ethiopian Customs Commission (ECC), validated by Fertilizer Technical Working Group – Ethiopia.
- Recent data validated on 22<sup>nd</sup> June 2023.
- Data has been converted from Ethiopian calendar years to the Gregorian calendar years.

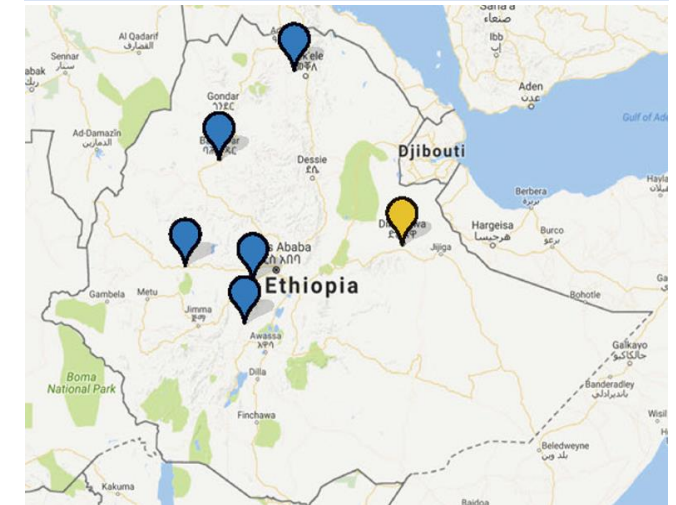
# Fertilizer Production

# ETHIOPIA

## Comments

- There is currently no primary production of inorganic fertilizers in Ethiopia. However, there is a Public-Private Partnership initiative aimed at establishing a manufacturing plant in Dire Dawa.
- Additionally, between 2014 and 2016, five fertilizer blending plants were installed. The blending was initiated at a facility managed by farmer's cooperative unions strategically located in four regions. Initially, these plants used to blend small quantities by incorporating Boron, Zinc, and Sulphur into imported DAP and NP compounds to tailor the nutrient composition to the specific needs of the soil and crops for farmers.
- Unfortunately, these plants are currently non-functional due to inefficient operational capacity. In response, the Ministry of Agriculture (MoA) has engaged OCP to operationalize at least two of these blending factories.

## Fertilizer Plants in Ethiopia



<https://viz.africafertilizer.org/#/ethiopia/directory>



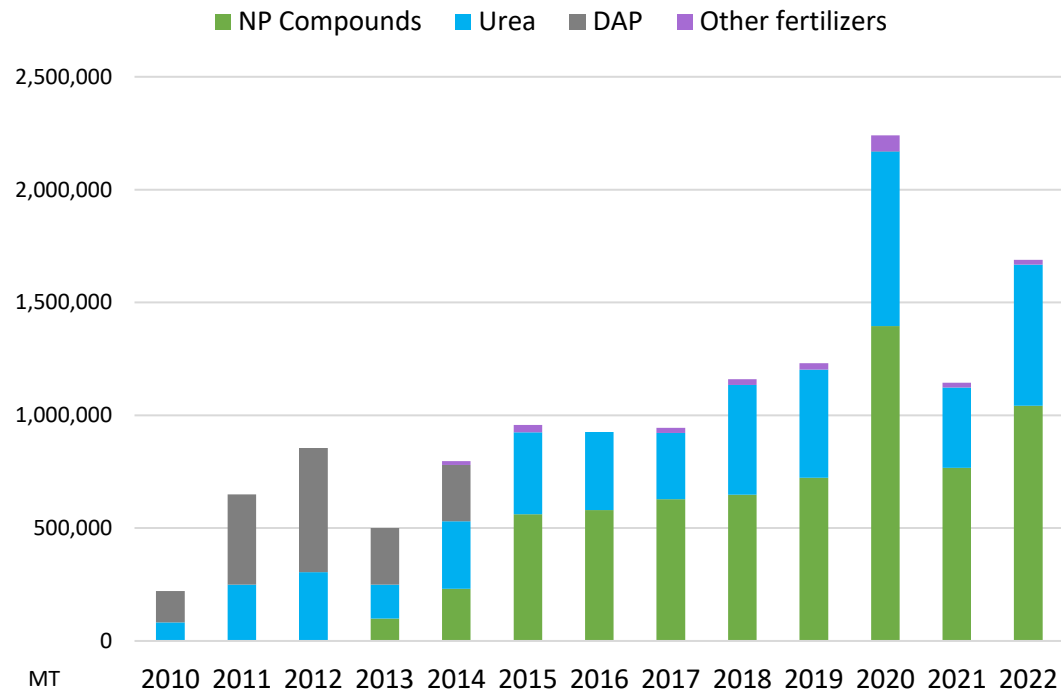
# Fertilizer Import

# ETHIOPIA

HS Code	Fertilizer Name	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
3105510000	NP Compounds	-	-	-	100,000	230,702	561,500	579,630	628,132	647,576	724,025	1,395,238	767,094	1,042,552
3102100000	Urea	83,000	250,000	305,000	150,000	300,000	363,539	346,200	294,000	486,809	479,096	775,277	356,874	626,000
3105300000	DAP	138,500	400,000	550,000	250,000	250,000	-	-	-	-	-	1	-	0
	Other fertilizers	-	-	-	-	16,912	33,010	-	22,534	26,337	27,654	69,755	21,030	21,037
<b>Total (mt)</b>		<b>221,500</b>	<b>650,000</b>	<b>855,000</b>	<b>500,000</b>	<b>797,614</b>	<b>958,049</b>	<b>925,830</b>	<b>944,666</b>	<b>1,160,722</b>	<b>1,230,775</b>	<b>2,240,271</b>	<b>1,144,998</b>	<b>1,689,590</b>

Calendar year: Jan - Dec

**Ethiopia Fertilizer Import / Apparent Consumption 2010 - 2022**

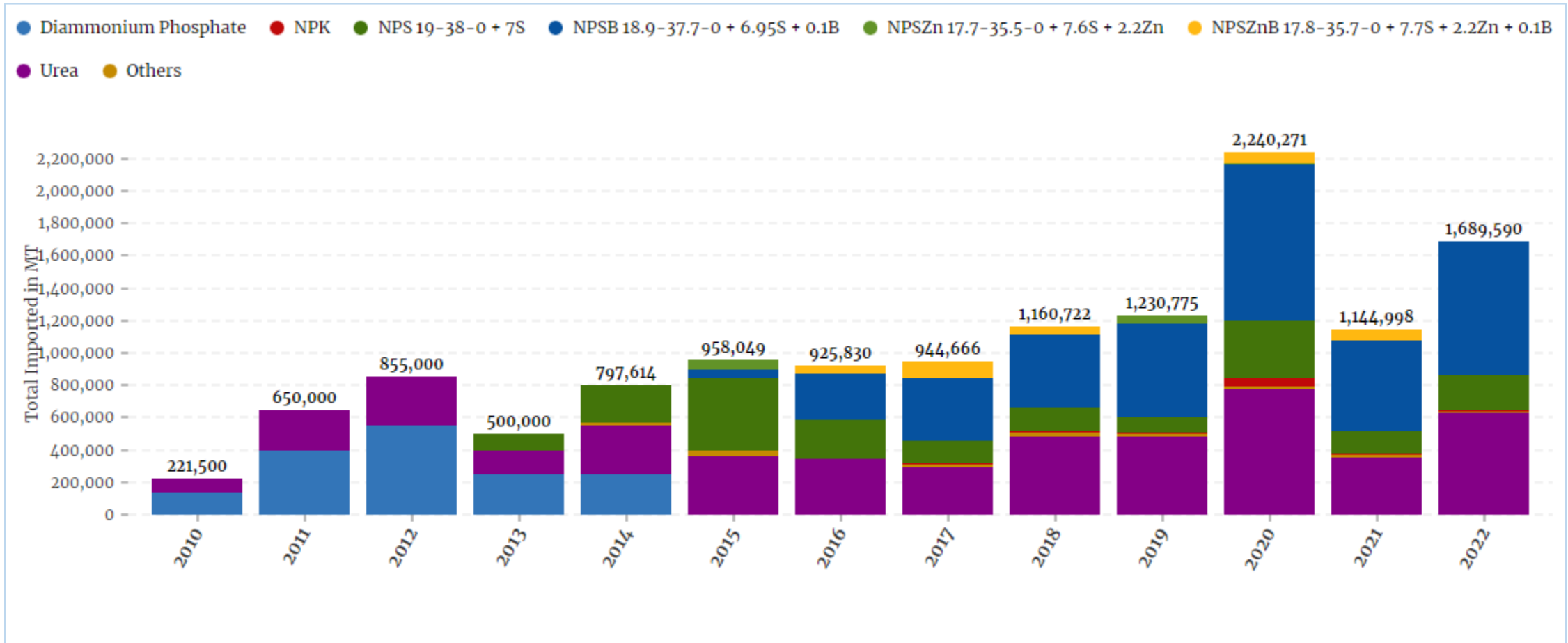


## Comments

- Over 90% of the fertilizers imported and used in Ethiopia are done through the Ethiopian Agricultural Businesses Corporation (EABC), with distribution to farmers facilitated through cooperatives.
- Historically, Ethiopia relied on the importation and use of Urea and DAP fertilizers. However, starting in 2013, there was a shift towards replacing DAP with NP compounds, and by 2015, the transition was complete, moving from Urea & DAP to Urea & NP compounds.
- Available data from 2017 shows a small but growing market of other fertilizers including Calcium Ammonium Nitrate (CAN), Calcium Nitrate, NPK and Potassium Nitrate.
- These fertilizers are predominantly imported by private companies in the horticultural sector, specializing in export production.
- The average annual imports in Ethiopia over the past 5 years is around 1.5 million MT.

# Fertilizer Import on Dashboard

# ETHIOPIA



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

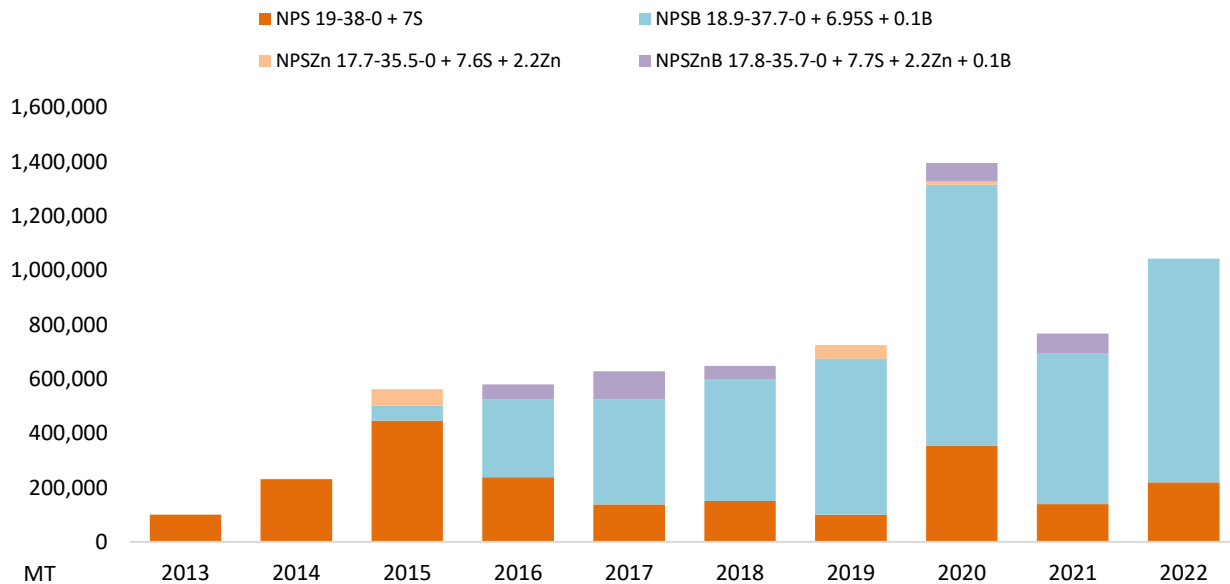
# NP Compounds Analysis

# ETHIOPIA

HS Code	Fertilizer Name	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
3105510000	NPS 19-38-0 + 7S	100,000	230,702	446,500	237,200	138,102	150,000	100,000	354,567	139,258	218,894
3105510000	NPSB 18.9-37.7-0 + 6.95S + 0.1B			55,000	288,000	385,600	447,576	574,025	960,000	555,988	823,658
3105510000	NPSZn 17.7-35.5-0 + 7.6S + 2.2Zn			60,000				50,000	11,713		
3105510000	NPSZnB 17.8-35.7-0 + 7.7S + 2.2Zn + 0.1B				54,430	104,430	50,000		68,959	71,848	
<b>Total (mt)</b>		<b>100,000</b>	<b>230,702</b>	<b>561,500</b>	<b>579,630</b>	<b>628,132</b>	<b>647,576</b>	<b>724,025</b>	<b>1,395,238</b>	<b>767,094</b>	<b>1,042,552</b>

Calendar year: Jan - Dec

## Evolution of NP Compounds Import, 2013 - 2022



## Comments

- NP compounds used in Ethiopia contain either Boron, Zinc, or Sulphur, depending on the type.
- These serve as basal fertilizers for all crops, while Urea is applied as a top-dressing fertilizer.
- Importantly, the volumes have seen a steady rise since their introduction in 2013, averaging approximately 900,000 MT over the past five years.

# Fertilizer Monthly Import

# ETHIOPIA

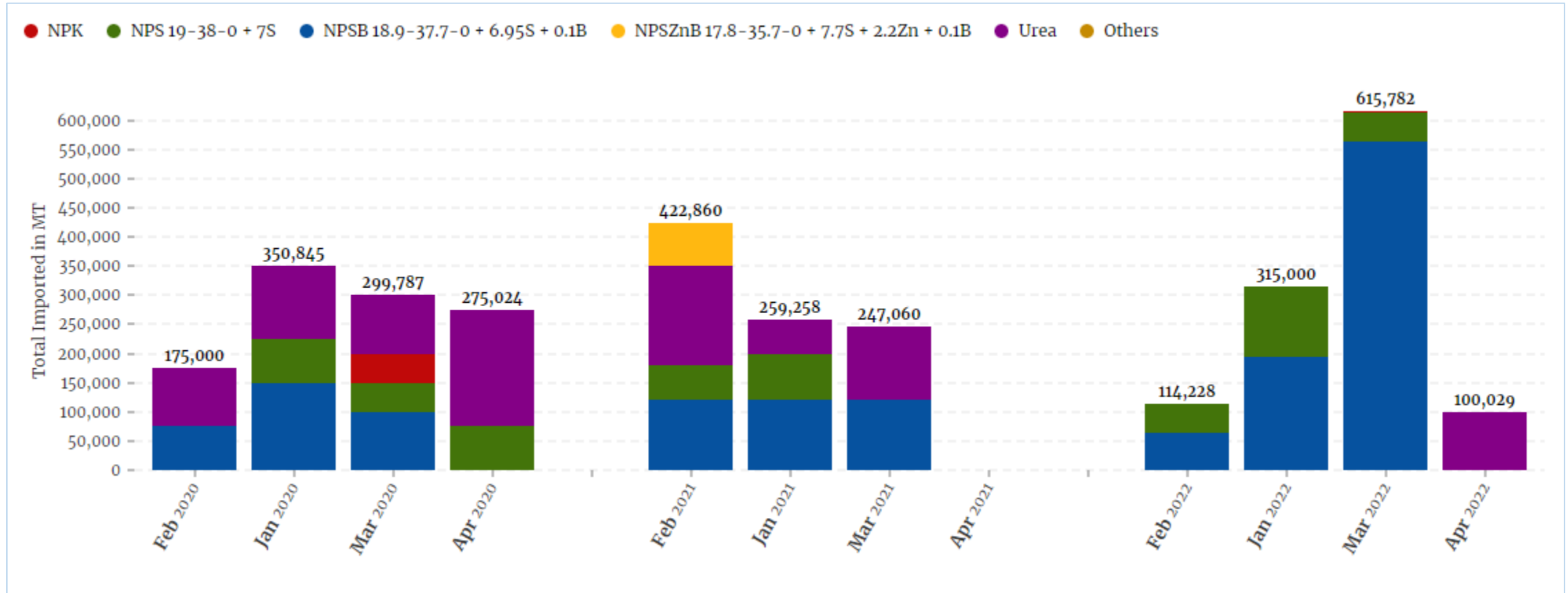
Quarter	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Q1	0	300000	428000	200,000	342,350	400,000	489,200	309,499	302,309	646,463	828,748	933,123	1,049,526
Q2	0	50000	150000	-	150,000	227,049	32,200	421,637	791,155	523,985	390,064	6,030	454,950
Q3	0	0	0	-	-	-	-	6,913	60,220	50,564	8,452	5,874	181,016
Q4	221500	300000	277000	300,000	305,264	331,000	404,430	206,617	7,038	9,762	1,013,007	199,971	4,097
<b>Total (mt)</b>	<b>221,500</b>	<b>650,000</b>	<b>855,000</b>	<b>500,000</b>	<b>797,614</b>	<b>958,049</b>	<b>925,830</b>	<b>944,666</b>	<b>1,160,722</b>	<b>1,230,775</b>	<b>2,240,271</b>	<b>1,144,998</b>	<b>1,689,590</b>

## Comments

- The two main agricultural seasons in Ethiopia are the Belg (minor), primarily from February/March to May/June, and sometimes extending to August in some regions, and Meher (main), mostly from July/August to February. There are overlaps in both the Belg and Meher periods depending on the region.
- Historically, fertilizer imports have occurred from the fourth quarter (Q4) through the second quarter (Q2), with the highest imports recorded in the first quarter (Q1). During Q3, imports tend to be lower, given that fertilizer application is either concluded for the minor season or commencing for the major season, and the country is already expected to have an adequate supply.
- Major food crops include Teff, Wheat, Maize, Sorghum, and Barley. Major cash crops include Coffee, Pulses, Oilseeds, Flowers, and Khat.

# Consecutive Import Periods on the Dashboard

# ETHIOPIA

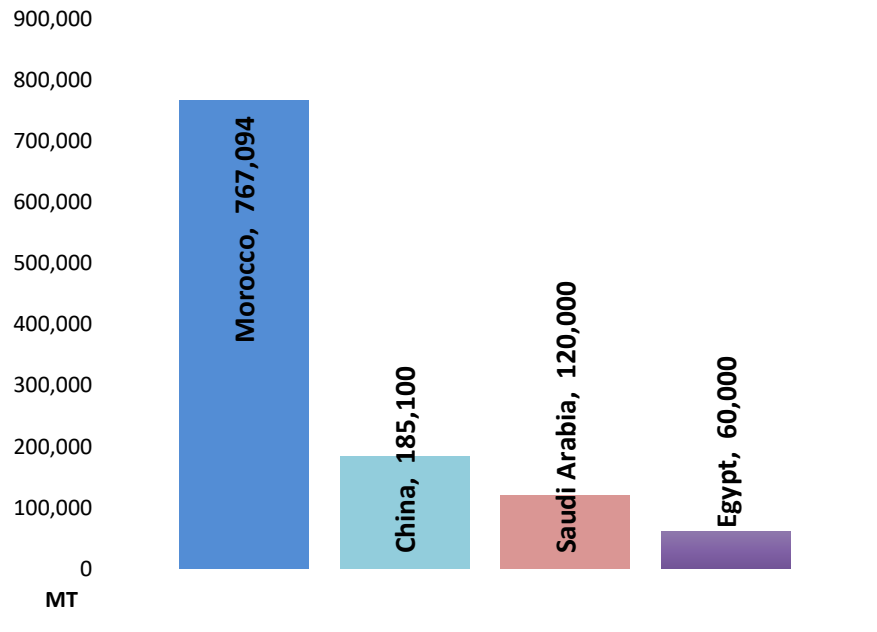


<https://viz.africafertilizer.org/#/ethiopia/availability>

# 2021 & 2022 Fertilizer Origins

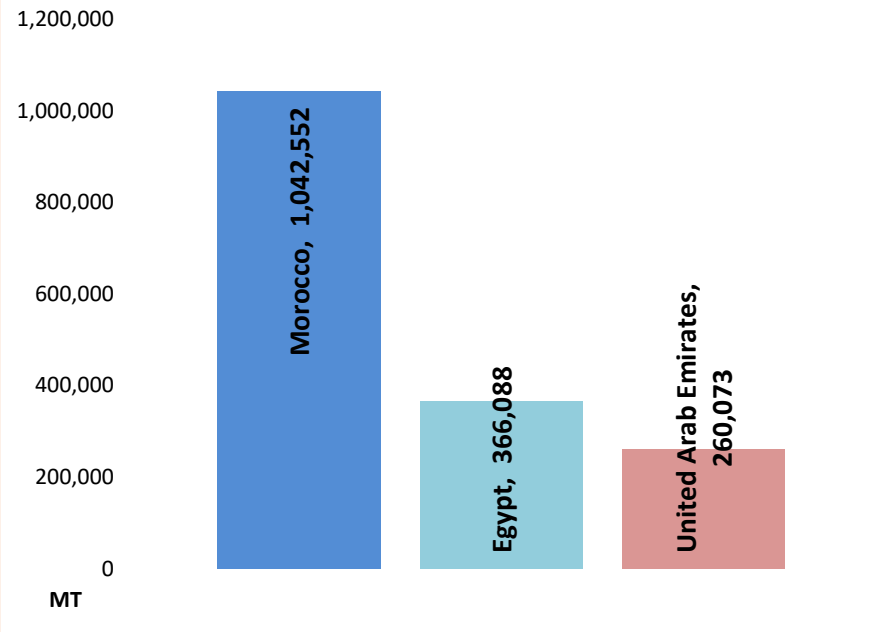
# ETHIOPIA

### TOP 4 COUNTRIES OF ORIGIN - 2021



Countries of Origin	Morocco	China	Saudi Arabia	Egypt	Other Countries
NP Compounds	100%	-	-	-	-
Urea	-	50%	34%	17%	-
Others fertilizers	-	39%	-	-	61%

### TOP 3 COUNTRIES OF ORIGIN - 2022



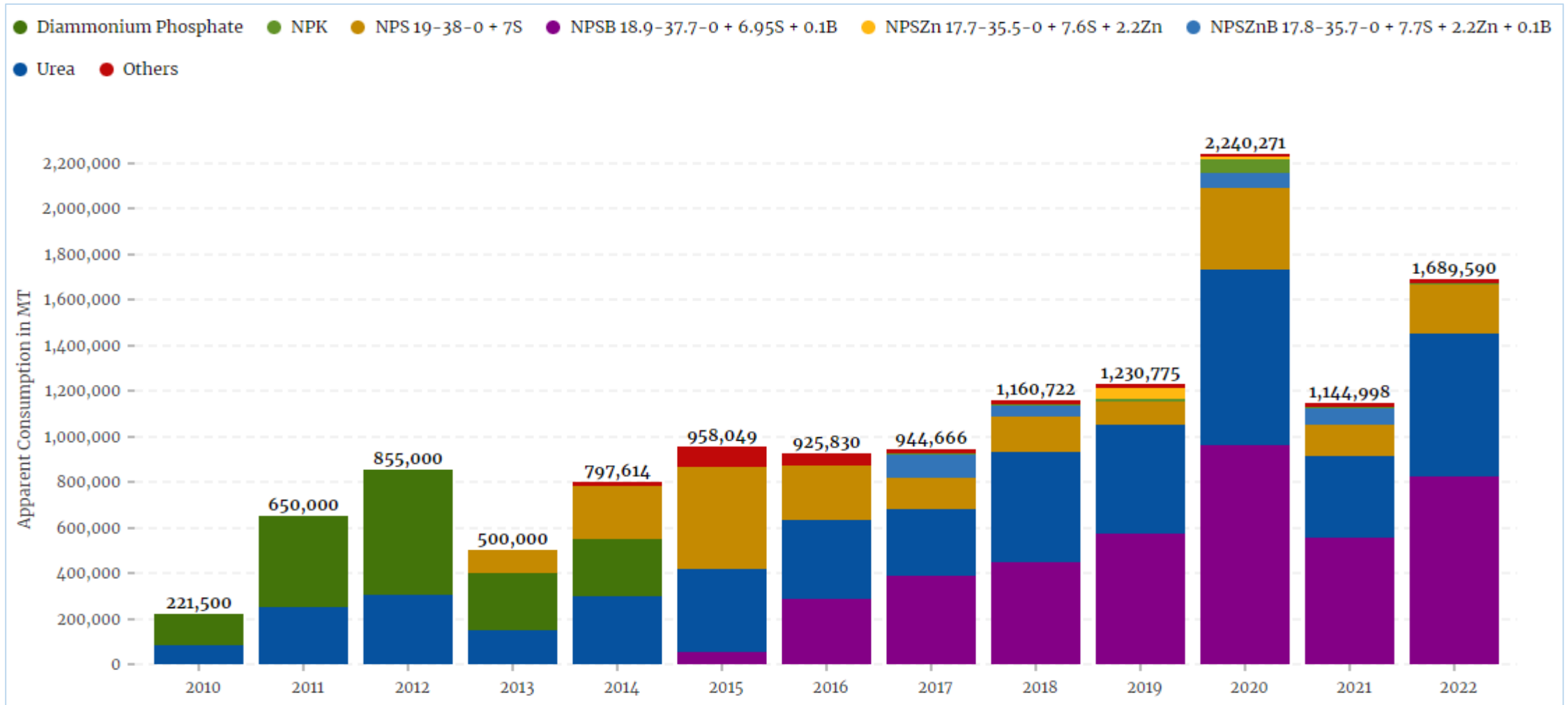
Countries of Origin	Morocco	Egypt	UAE	Other Countries
NP Compounds	100%	-	-	-
Urea	-	58%	42%	-
Other fertilizers	-	0.4%	0.3%	99.2%

## Comments

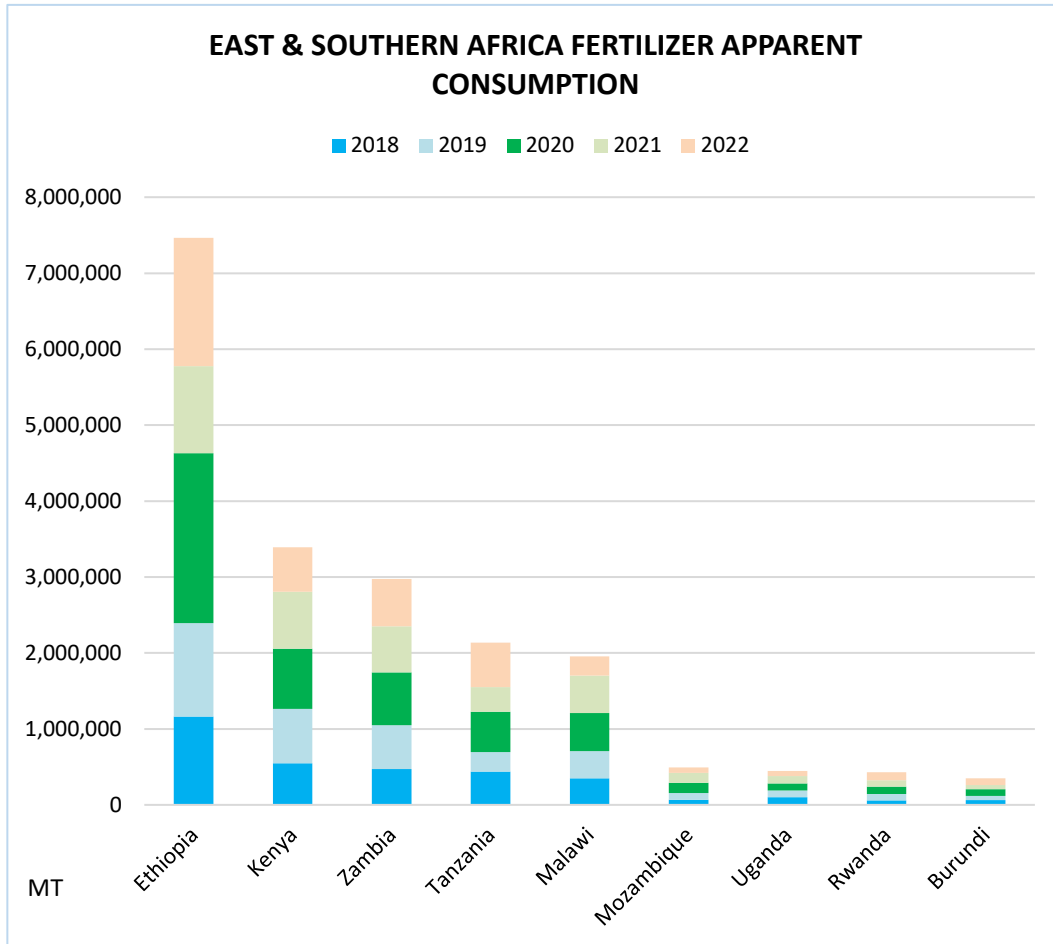
- All the **NP compounds** used in Ethiopia are currently sourced from **Morocco**. **Urea** sources differ; in 2021, it was sourced from **China (50%)**, **Saudi Arabia (34%)**, and **Egypt (17%)**, while in 2022, **Urea** was sourced from **Egypt (58%)** and the **UAE (42%)**.
- In 2021, the private sector sourced about **21,030 MT** of other fertilizers with around **3,878 MT** of **CAN** and **3,237 MT** of **Calcium Nitrate** from **China**. **6,716 MT** of **NPK** came from **Spain**. **Potassium Nitrate** was primarily sourced from **Israel**, **China**, **Jordan**, **Belarus** and **Chile**.
- In 2022, about **21,037 MT** of other fertilizers were also sourced. **Calcium Nitrate** from **Slovakia (3,261 MT)**, **Norway (1,462 MT)**, and **Czech (1,129 MT)**. **NPK** was sourced from the **Netherlands (2,488 MT)** and **Spain (2,300 MT)**. **Potassium Nitrate** came from **Israel (665 MT)**, **Jordan (504 MT)** and **Chile (219 MT)**.

# Fertilizer Apparent Consumption on the Dashboard

# ETHIOPIA



<https://viz.africafertilizer.org/#/ethiopia/use>



## What is the reason behind Ethiopia's non-utilization of fertilizers containing Potassium (K)?

- In the southern regions, soils abound in K, while in the western areas where coffee is cultivated, there is a deficiency of K. Furthermore, the NPs employed prove sufficient for achieving the desired crop yield.
- Private sector imports some volumes of NPK, MOP and SOP which contains Potassium (K).

# Summary of Fertilizer Statistics

# ETHIOPIA

HS Code	Fertilizer Name	2017	2018	2019	2020	2021	2022
3105510000	NPS 19-38-0 + 7S	138,102	150,000	100,000	354,567	139,258	218,894
3105510000	NPSB 18.9-37.7-0 + 6.95S + 0.1B	385,600	447,576	574,025	960,000	555,988	823,658
3105510000	NPSZn 17.7-35.5-0 + 7.6S + 2.2Zn	-	-	50,000	11,713	-	-
3105510000	NPSZnB 17.8-35.7-0 + 7.7S + 2.2Zn + 0.1B	104,430	50,000	-	68,959	71,848	-
3102100000	Urea	294,000	486,809	479,096	775,277	356,874	626,000
<b>Sub Total 1</b>		<b>922,132</b>	<b>1,134,385</b>	<b>1,203,121</b>	<b>2,170,515</b>	<b>1,123,967</b>	<b>1,668,552</b>
2834210000	Potassium Nitrate	2,655	3,349	3,146	2,691	1,698	1,670
3101000000	Organic Fertilizer	58	41	2	114	89	267
3102210000	Ammonium Sulphate	339	408	286	235	388	394
3102400000	Calcium Ammonium Nitrate	1,850	4,414	4,988	1,657	3,878	371
3102600000	Calcium Nitrate	4,060	3,794	3,426	3,666	3,237	7,696
3102900000	Other Nitrogen Fertilizer	1,852	1,543	722	589	604	418
3103100000	Single Super Phosphate	32	-	-	-	-	-
3103101000	Triple Super Phosphate	-	-	-	3	10	-
3104200000	Muriate of Potash	293	27	229	98	95	31
3104300000	Sulphate of Potash	440	598	723	350	417	570
3104900000	Other Potash fertilizer	57	0	0	96	24	50
3105200000	NPK	5,502	6,900	8,932	56,432	7,647	6,924
3105300000	DAP	-	-	1	1	-	0
3105400000	Monoammonium Phosphate	479	472	560	377	538	327
3105600000	PK Fertilizer	710	776	571	562	597	442
3105700000	NK Fertilizer	-	-	-	264	40	0
9999999990	Enhancer	4,207	4,015	3,851	2,621	1,769	1,877
<b>Sub Total 2</b>		<b>22,534</b>	<b>26,337</b>	<b>27,654</b>	<b>69,756</b>	<b>21,030</b>	<b>21,037</b>
<b>Grand Total (MT)</b>		<b>944,666</b>	<b>1,160,722</b>	<b>1,230,775</b>	<b>2,240,271</b>	<b>1,144,998</b>	<b>1,689,590</b>

# Participants of 2023 FTWG

# ETHIOPIA



# Participants List - 2023 FTWG

# ETHIOPIA

No.	Name	Institutions	No.	Name	Institutions
1	Yohannes Hailu	Ministry of Finance	23	Seyum Wondimu	EABC
2	Kebede Lakew	MOA	24	Habib Temam	MOA
3	Bahiru Setegn	MOA	25	Tiblets Fetsum	MOA
4	Fasil Tadesse	CropLife Ethophia	26	Kifle W/mariam	EABC
5	Zemen Menaye	MOA	27	Shimelis Eshetu.	MOF
6	Abebe Eshete	MOA	28	Yared Assefa	MOF
7	Yohannes Abebe	EHPEA	29	Tesfaye Tadesse	MOA
8	Siraj Abdulahi	Ethiopian Shipping and Logistic service Enterprise	30	Wondwossen Shiferaw	MOA
9	Anteneh Demeke	EABC	31	Yaregal Solomon	MOA
10	Getachew Debele	MOA	32	Feleke Gezahagn	EABC
11	Belete Berhane	MOA	33	Mulugeta Enki	ATI
12	Abebe Shiferaw Dakka	IFDC	34	Yelow Tesfaye	Ethiopian Maritime Affairs Authority
13	Etsubdink Tekalign	IFDC	35	Samuel Ali	IFDC
14	Dereje Assamenew	MOA	36	Clement Donkor-Boateng	IFDC
15	Mulatu Abate	EAA	37	Viola Kenduiywo	IFDC
16	Mulugeta Abera	MOA	38	Doris Jepkorir	IFDC
17	Dr. Melese Bedane	MOA	39	Seember Ali	DG
18	Abera Lemma	MOA	40	Sebastian Nduva	IFDC
19	Zewidu Sime	MOA	41	Scott Wllace	WA
20	Senait H/mariame	MOA	42	Okone Ousmane	DG
21	Yirgalem Kebede	EABC	43	Firehyiwot Belayneh	IFDC
22	Megnot Alemu	MOA	44	Fred Gyasi	IFDC

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