



FERTILIZER STATISTICS OVERVIEW GHANA 2018 - 2022

2023 Edition – Version 1

Outline

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

Background Information

- Overview of fertilizer statistics in Ghana from 2018 – 2022.
- Emphasis is on 2022, and each analysis is based on the products with higher quantities.
- Official trade data obtained from Ghana Statistical Service (GSS) and Customs as well as organic production data from private sector.
- Validated by Fertilizer Technical Working Group – Ghana (FTWG-GHA).
- 2022 data validated from 1st – 2nd March 2023.

Fertilizer Production

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Comments

- There is no primary production of inorganic fertilizers in Ghana.
- In 2021, about 4,624mt of organic fertilizers (compost) was produced locally by ACARP, Safisana and JEKORA Ventures. The FTWG is working on getting the complete organic fertilizer production data for 2022.
- 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.
- Six of the major importing companies, namely Yara Ghana, Chemico Limited, Louis Dreyfus Company Ghana (LDC), OmniFert, GloFert and Agricultural Manufacturing Group (AMG) have invested in blending plants that allows them to create different fertilizer formulations.
- All blending plants are located at the southern part of the country, closer to the point of entry. Yara, Chemico, LDC and AMG are located at the port city of Tema; OmniFert is located at Dawhenya; while GloFert is at Teacher Mantey.
- Carmeuse Lime Products Gh Ltd, a lime producing company located at Takoradi started producing agric lime in 2020.

Fertilizer Plants in Ghana



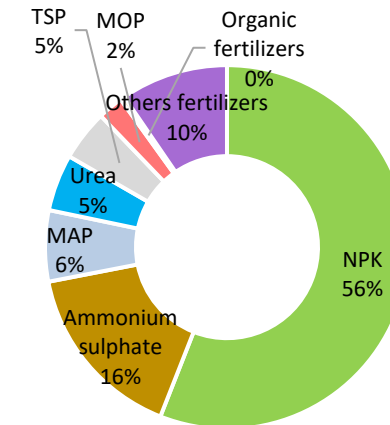
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Fertilizer Import

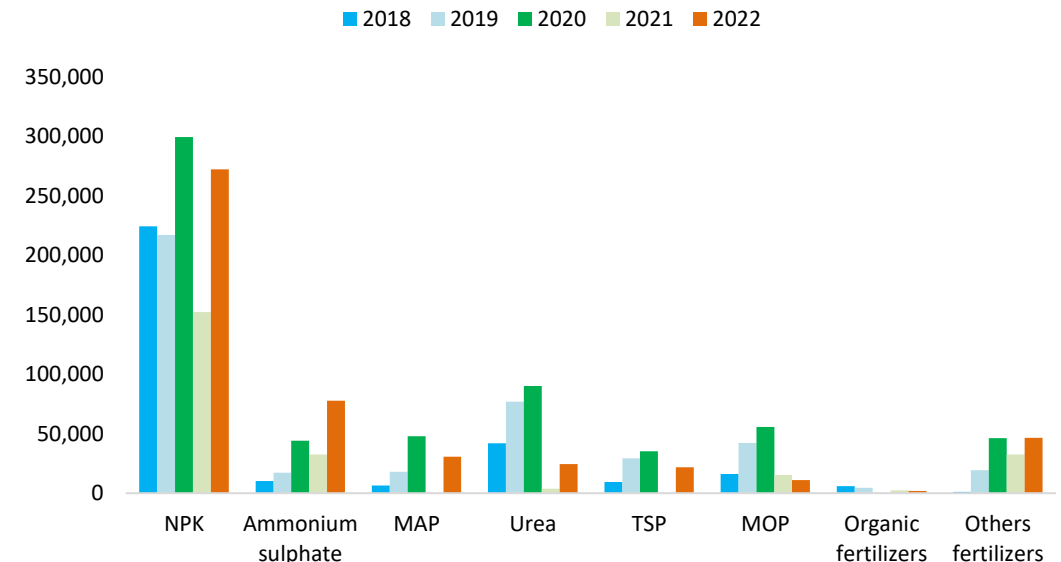
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HS Code	Fertilizer Name	2018	2019	2020	2021	2022
3105200000	NPK	224,176	217,024	299,423	152,267	272,106
3102210000	Ammonium sulphate	10,084	17,326	43,994	32,561	77,737
3105400000	MAP	6,540	18,102	47,966	-	30,722
3102100000	Urea	42,005	77,011	89,956	3,800	24,505
3103101000	TSP	9,460	29,300	35,268	-	21,900
3104200000	MOP	15,993	42,235	55,611	15,329	10,941
3101000000	Organic fertilizers	5,875	4,673	270	2,495	1,877
	Others fertilizers	1,024	19,440	46,151	32,610	46,415
Total (mt)		315,157	425,110	618,638	239,062	486,203

TOP 6 IMPORTED FERTILIZERS 2022



TOP FERTILIZER IMPORTS PER YEAR



Comments

- Official fertilizer imports to Ghana increased by 103% from 2021 to 2022.

Reasons

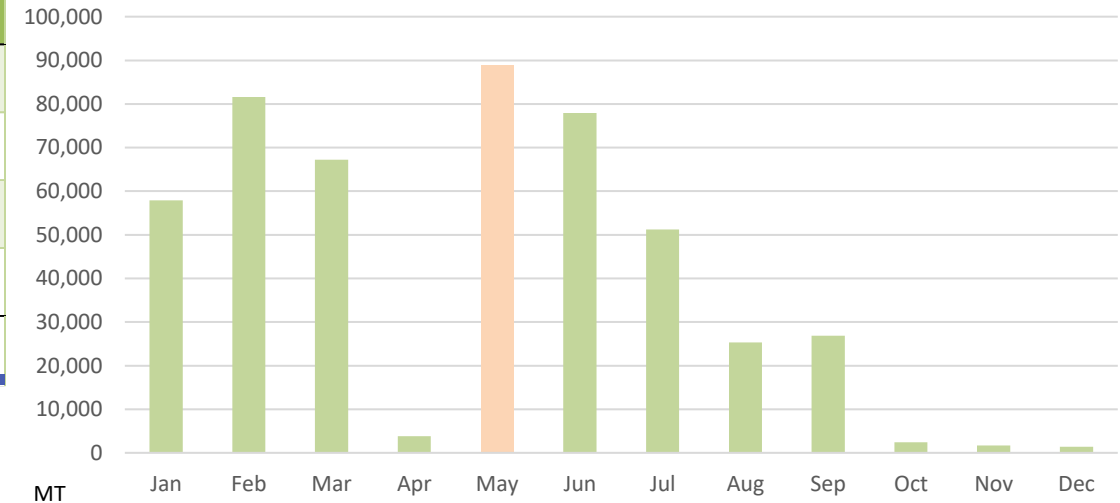
- Importers response to high fertilizer demand in the in the last quarter of 2021 and first quarter of 2022 before the Russia-Ukraine crisis.
- Fertilizer relief program under OCP aid program as well as Grow Ghana Initiative by the collaboration of Yara, AGRA, and AFAP and USAID

Fertilizer Monthly Import

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Quarter	2018	2019	2020	2021	2022
Q1	19,057	74,698	240,719	33,532	206,723
Q2	207,292	179,091	280,212	109,796	170,627
Q3	69,099	132,555	69,787	48,124	103,386
Q4	19,708	38,767	27,921	47,610	5,468
Total (mt)	315,157	425,110	618,638	239,062	486,203

2022 Monthly Fertilizer Imports for Ghana



Comments

- In 2022, 78% of fertilizers imported were recorded in the first and second quarter.
- Fertilizer import was high in Jan-March and May-July. The peak month was in May, recording 8,8880mt (18% of 2022 imports).
- 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(1st year)				◆	◆	◆						
	Cassava(2nd year)												
	Maize(North main*)						◆	◆	◆				
	Maize(South main*)			◆	◆	◆	◆	◆	◆				
	Sorghum & Millet					◆	◆	◆	◆	◆			
	Rice(North)						◆	◆	◆	◆			
	Rice(South)				◆	◆	◆	◆	◆	◆			
Yams	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	
Minor Season (Short Rains)	Cassava, Maize, Millet, Sorghum, Rice, Yams							◆	◆	◆	◆	◆	◆

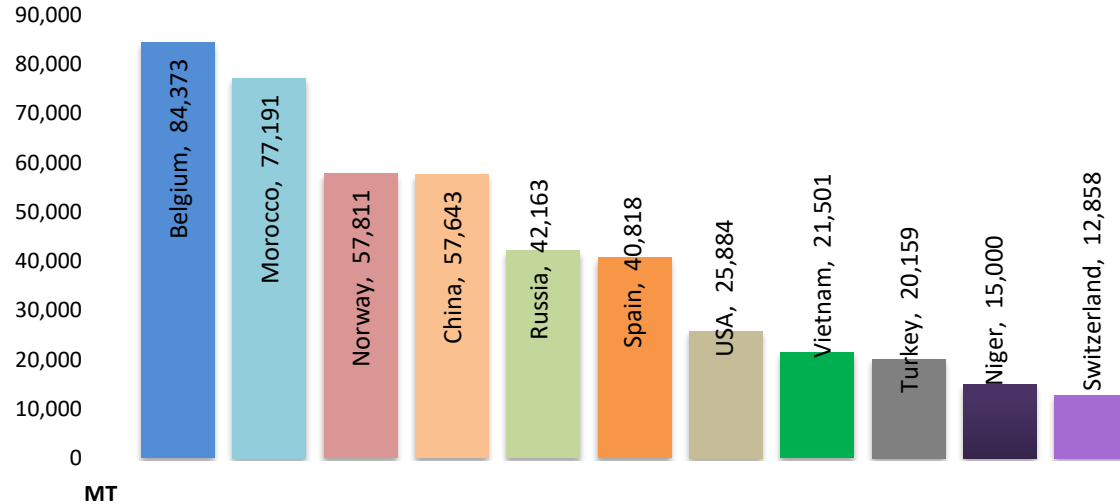
Key: ◆ Fertilizer Peak Demand Sowing Growing Harves

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Fertilizer Origins

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TOP 6 COUNTRIES OF ORIGIN IN 2022



Countries of Origin	Belgium	Morocco	Norway	China	Russia	Spain	Other countries
NPK	17%	10%	21%	-	12%	14%	26%
Ammonium sulphate	30%	-	-	67%	-	-	3%
MAP	-	100%	-	0%	-	-	-
Urea	0%	-	-	-	36%	-	64%
TSP	-	87%	-	-	-	-	13%
Others	24%	-	1%	9%	-	7%	59%

*All Kieserite were imported from China
 *About 15,000 mt of Urea were possibly imported from Nigeria



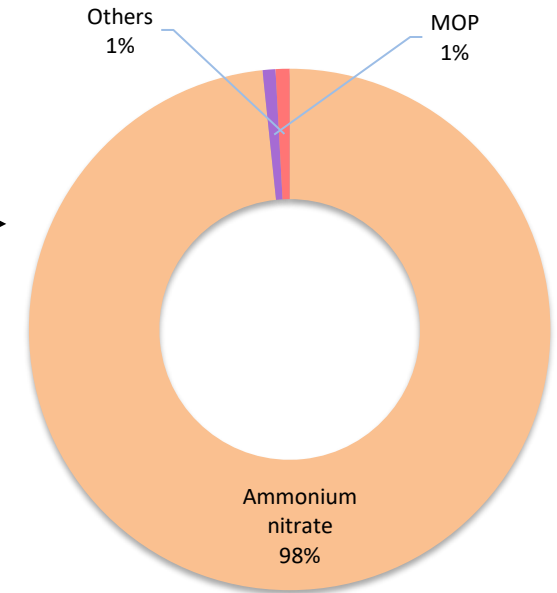
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Agricultural and Non-agricultural Uses

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Usage	2018		2019		2020		2021		2022	
	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%
Agriculture	315,157	78%	425,110	82%	618,638	84%	239,062	72%	486,203	83%
Industrial/Mines	90,416	22%	90,286	18%	114,456	16%	92,618	28%	97,938	17%
Total (MT)	405,573	100%	515,396	100%	733,094	100%	331,680	100%	584,141	100%

2022 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 17% of the fertilizer products imported are used for industrial purposes.

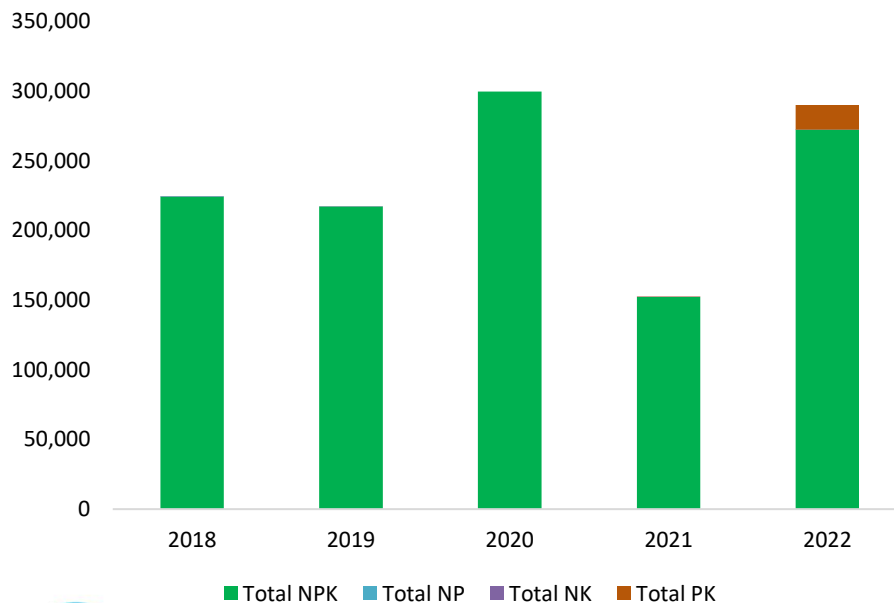
NPK Import Analysis

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HS Code	Fertilizer Name	2018	2019	2020	2021	2022
3105200000	Total NPK	224,176	217,024	299,423	152,267	272,106
3105510000	Total NP	2		-		150
3105700000	Total NK	24	1	-	88	2
3105600000	Total PK	-	-	-	15	17,500
3105900000	NPK (Unknown Grade)	-	-	-	-	-
Total (mt)		224,203	217,025	299,423	152,369	289,759

NPK, NP, NK, PK Import	2022
NPK 23-10-5	84,346
NPK 5-16-15 + 16CaO + 6S + 3MgO +	43,964
NPK 15-15-15	43,247
NPK 2-18-16 + 8CaO + 6MgO + 4S + C	20,072
NPK 22-5-5	19,540
NPK 23-10-5 + 6S + 1ZnSO4	17,791
PK 0-22-16 + 10CaO + 5MGO + 3S + O	17,500
NPK 20-10-10 + 3S	10,800
NPK unspecified	32,499
Total (mt)	289,759

TOTAL NPK IMPORTS PER YEAR



Comments

- Blending companies import Urea, TSP, DAP, MAP and MOP to blend different formulations of NPK for farmers in Ghana.
- Blenders and other major fertilizer importing companies also import finished NPK with various grades to sell directly to farmers.
- From the breakdown above, NPK 23-10-5, NPK 5-16-15 and NPK 15-15-15 were the highest NPK compounds imported to Ghana in 2022.



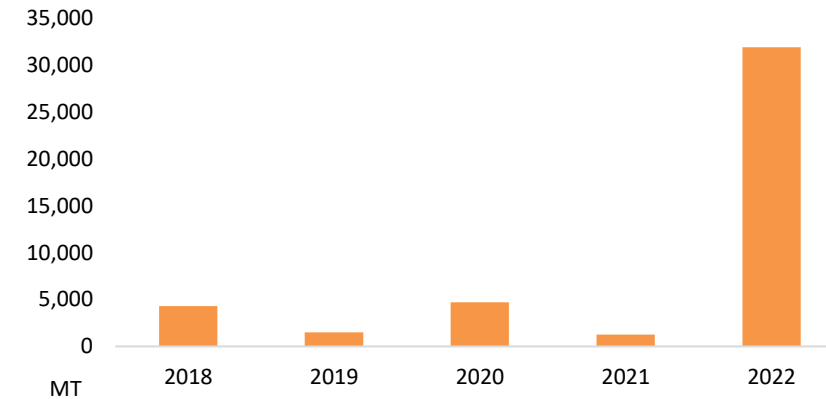
NPK Blend

Fertilizer Re-Exports

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HS Code	Fertilizer Name	2018	2019	2020	2021	2022
3105200000	NPK	4,000	1,407	2,782	574	26,415
	DAP					4,653
3102100000	Urea	3	90	1,576	349	81
	Other fertilizers	288	10	338	321	773
Total (mt)		4,291	1,507	4,696	1,244	31,922

FERTILIZER EXPORTS FROM GHANA PER YEAR



Urea

Comments

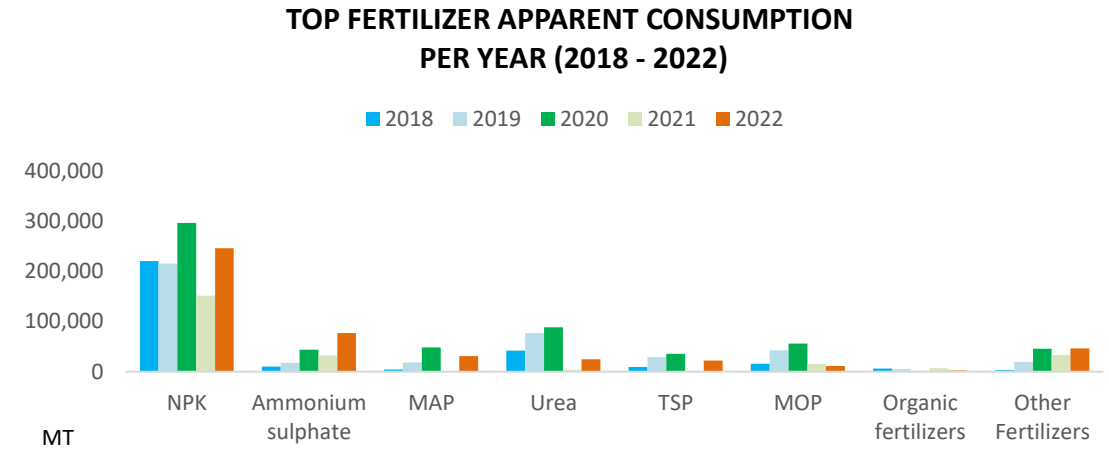
- Ghana does not produce inorganic fertilizers, therefore, all inorganic fertilizers leaving the country has been brought in and either blended or sent out in its natural form it entered the country.
- In 2022, about 31,922mt of fertilizers were re-exported mostly to Burkina Faso.
- 26,490 of NPK and DAP to Burkina Faso and 4,795 of SoA and DAP to Mali
- The difference in 2021 and 2022 figure is because of the official recording of fertilizers leaving the country.

- Subsidy fertilizers that normally finds its way to Burkina Faso and its environs every year were blocked due to the introduction of an electronic system used to manage the subsidy in the 5 Northern Regions of the country.
- This made the neighbours to officially come down and bought fertilizers from Ghana.
- The CFA was performing better than the cedi, luring neighboring countries to purchase fertilizer from Ghanaian markets.
- Due to low demand in the country, exporting companies needed to explore other markets to sell their products.

Fertilizer Apparent Consumption

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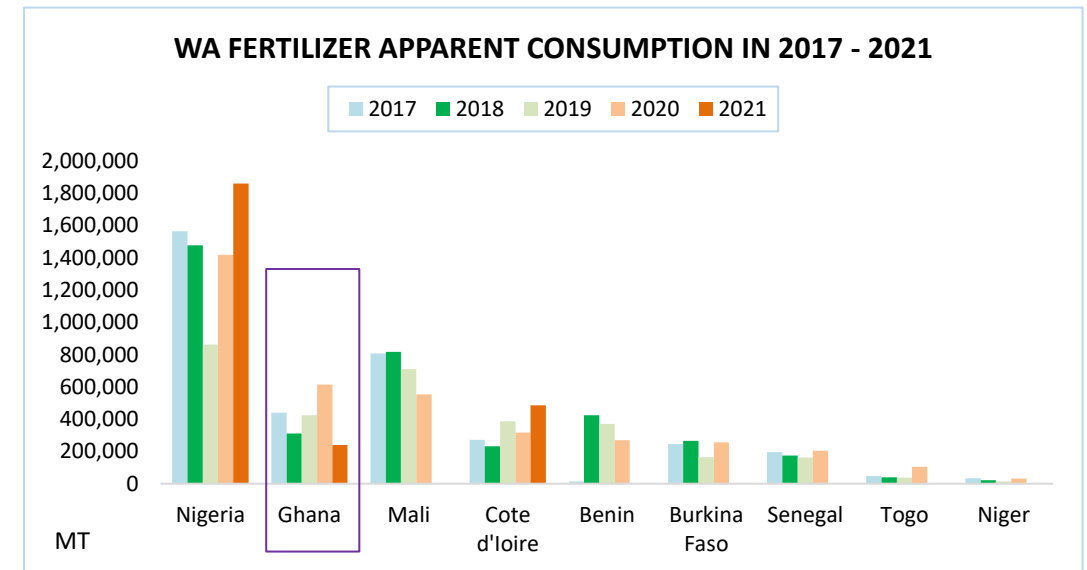
HS Code	Fertilizer Name	2018	2019	2020	2021	2022
3105200000	NPK	220,176	215,617	296,641	151,693	245,691
3102210000	Ammonium sulphate	10,084	17,326	43,994	32,561	77,082
3105400000	MAP	4,432	18,102	47,966	-	30,722
3102100000	Urea	42,002	76,921	88,379	3,451	24,424
3103101000	TSP	9,460	29,300	35,268	-	21,885
3104200000	MOP	15,712	42,235	55,611	15,329	10,941
3101000000	Organic fertilizers	5,868	4,663	219	6,692	2,432
	Other Fertilizers	3,132	19,440	45,863	32,607	46,340
Total (mt)		310,866	423,603	613,942	242,334	459,518



Comments

- There was a 90% increase in fertilizer apparent consumption from 2021 to 2022.
- Many farmers could not buy fertilizer leaving a large quantity as carry over due to
 - high prices., exchange rate, inflation, reduction of farm acreages

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



<https://vifaaghana.org/#/ghana/use>

Summary of 2021 Fertilizer Statistics

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HS Code	Products	Production	2021 Production Carryover into 2022	Total Import	Industrial	Exports	Fertilizer Import	2022 Apparent Consumption	2022 Production Carryover into 2023
3105200000	NPK			271,873		26,415	271,873	245,458	
3105200000	NPK (Liquid)			234			234	234	
3102210000	Ammonium Sulphate			77,737	0	655	77,737	77,082	
3105400000	Monoammonium Phosphate			30,722			30,722	30,722	
3102100000	Urea			24,557	108	81	24,450	24,369	
3102100000	Urea (Liquid)			56			56	56	
3103101000	Triple Super Phosphate			21,922	22	15	21,900	21,885	
3105600000	PK Compound			17,500			17,500	17,500	
3102400000	Calcium Ammonium Nitrate			14,969			14,969	14,969	
3104200000	Muriate of Potash			11,676	735		10,941	10,941	
2530200000	Kieserite			4,781			4,781	4,781	
9999999990	Enhancers			3,982	252	2	3,730	3,729	
9999999990	Enhancers (Liquid)			637		63	637	574	
2510000000	Phosphate Rock			1,394			1,394	1,394	
3101000000	Organic Fertilizers	210	408	1,014		3	1,014	1,585	43
3101000000	Organic Fertilizers (Liquid)			863		16	863	847	
2522100000	Lime (Calcium carbonate)			983			983	983	
3102600000	Calcium Nitrate			1,072	107		965	965	
3104300000	Sulphate of Potash			604	0	6	604	598	
2834210000	Potassium Nitrate			355	0	0	355	355	
3104900000	Other Potash Fertilizer			220			220	220	
3104900000	Other Potash Fertilizer (Liquid)			119			119	119	
3105510000	NP Compound			150			150	150	
3105700000	NK Compound			2			2	2	
3102900000	Other Nitrogen			1			1	1	
3102300000	Ammonium Nitrate			96,401	96,401		-	-	
3102500000	Sodium nitrate			313	313		-	-	
3103900000	Other phosphate			4		14	4	(10)	
3105300000	Diammonium Phosphate					4,653	-	(4,653)	
2022 Total (mt)		210	408	584,141	97,938	31,922	486,203	459,518	43
2021						1,244	239,062	242,334	
% Change						2466%	103%	90%	

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Participants of 2022 FTWG

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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.



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