



FERTILIZER STATISTICS OVERVIEW MALAWI 2016 - 2021

2022 Edition_draft1

Outline

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

Background Information

- Overview of fertilizer statistics in Malawi from 2016 – 2021 and 2022 (to September)
- Emphasis on 2021, and each analysis is based on the products with higher quantities.
- Official trade data obtained from Malawi Revenue Authority (MRA) and validated by Fertilizer Technical Working Group – Malawi (FTWG-MWI).
- Data validated from 27th – 28th September, 2022.

Fertilizer Production

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Comments

- There is no primary production of inorganic fertilizers in Malawi.
- 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.
- Two of the major importing companies, namely Malawi Fertilizer Company and Optichem 2000 Limited located in Liwonde and Blantyre respectively, have invested in blending plants that allow them to create different NPK fertilizer formulations.

Fertilizer Plants in Malawi



NPK Blended volumes goes here	

Fertilizer Import

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Top Fertilizer Imports per Calendar Year

HS Code	Fertilizer Name	2016	2017	2018	2019	2020	2021	2022*
3105200000	NPK	28,572	75,046	118,557	143,610	183,919	220,258	44,230
3102100000	Urea	70,599	132,165	158,305	133,911	235,926	183,775	29,234
3102210000	Ammonium Sulphate	19,074	18,461	11,588	17,746	26,335	30,035	24,968
3102400000	CAN	2,771	22,387	25,431	28,260	23,127	19,865	8,530
3105300000	DAP	6,006	7,000	7,675	13,700	16,800	18,100	21,262
3104200000	MOP	1,710	10,250	8,715	9,868	10,158	11,038	3,328
3105400000	MAP	4,117	11,800	4,039	1,662	2,084	3,494	90
3104300000	SOP	2,108	3,861	2,092	3,304	4,482	4,568	5,009
3105510000	NP Compound	22,339	48,550	10,686	-	1	2,000	-
	Others fertilizers	1,872	4,799	3,681	7,023	1,472	1,553	609
Total (MT)		159,168	334,317	350,768	359,084	504,301	494,687	137,260

*2022 - Data till mid-September. | *Calendar year: Jan - Dec

Top Fertilizer Imports per Crop Year

HS Code	Fertilizer Name	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23*
3105200000	NPK	47,125	65,346	127,045	168,434	209,891	173,340	23,012
3102100000	Urea	96,695	138,478	146,622	169,390	253,764	124,278	14,688
3102210000	Ammonium Sulphate	20,663	17,275	16,618	13,379	29,240	32,732	18,298
3102400000	CAN	3,771	22,407	26,411	31,139	19,848	21,265	5,530
3105300000	DAP	6,006	7,000	7,675	15,700	17,300	15,700	21,162
3104200000	MOP	2,905	9,761	9,311	12,709	8,530	10,523	1,328
3105400000	MAP	4,118	11,799	4,069	2,662	1,054	3,494	90
3104300000	SOP	2,219	3,815	2,055	3,543	4,410	7,479	1,903
3105510000	NP Compound	31,292	49,452	830		1	2,000	
	Others fertilizers	1,975	5,285	3,206	7,260	1,376	1,501	406
Total (MT)		216,769	330,617	343,841	424,215	545,414	392,313	86,417

*2022 - Data till mid-September. | *Crop year: Apr - Mar

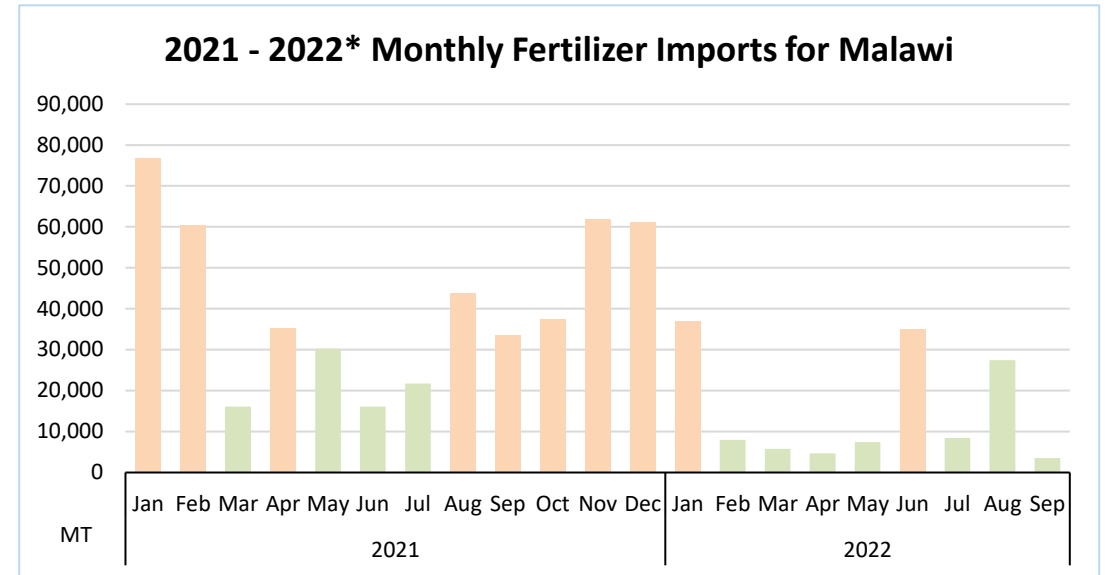
Comments

- NPK, Urea and Ammonium Sulphate has been the most imported fertilizers to Malawi over the years.
- The average fertilizer imports from 2016 to 2021 in calendar years is about 367,000mt and about 375,000mt for crop year 2016/17 to 2021/22.
- Official fertilizer imports increased by 40% from 2019 to 2020 as the Government started the Affordable Inputs Program (AIP) in 2020 which subsidizes farming inputs.
- Between April to mid-September 2022, about 86,417mt of fertilizers were imported for the 2022/23 cropping season.

Fertilizer Monthly Import

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Quarter	2016	2017	2018	2019	2020	2021	2022*
Q1	0	57,601	53,901	46,973	112,104	153,217	50,843
Q2	6,487	46,829	65,366	53,382	44,498	81,522	47,098
Q3	51,272	105,344	112,138	96,364	143,605	99,259	39,319
Q4	101,408	124,542	119,364	162,365	204,094	160,690	-
Total (mt)	159,168	334,317	350,768	359,084	504,301	494,687	137,260



Comments

- In Malawi, the main food-growing season begins in October, with fertilizer need peaking from September through to March.
- Compound and straight fertilizers must arrive in the country three months before sowing to allow for distribution to all farming communities.
- Between January 2021 to mid-September 2022, fertilizers have been imported mostly around the crop sowing and growing periods.

Crop Calendar

CROPS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Maize									◆	◆	◆	
Rice	◆										◆	◆
Sorghum	◆											◆
Wheat		◆	◆	◆								

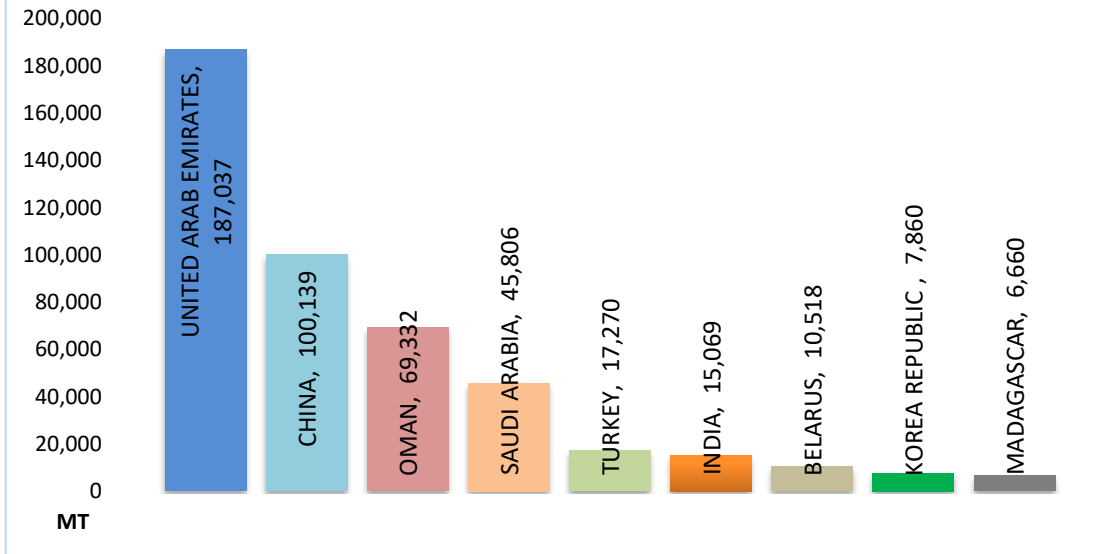
Key: ◆ Fertilizer Peak Demand Sowing Growing Harvesting

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

2021 & 2022* Fertilizer Origins

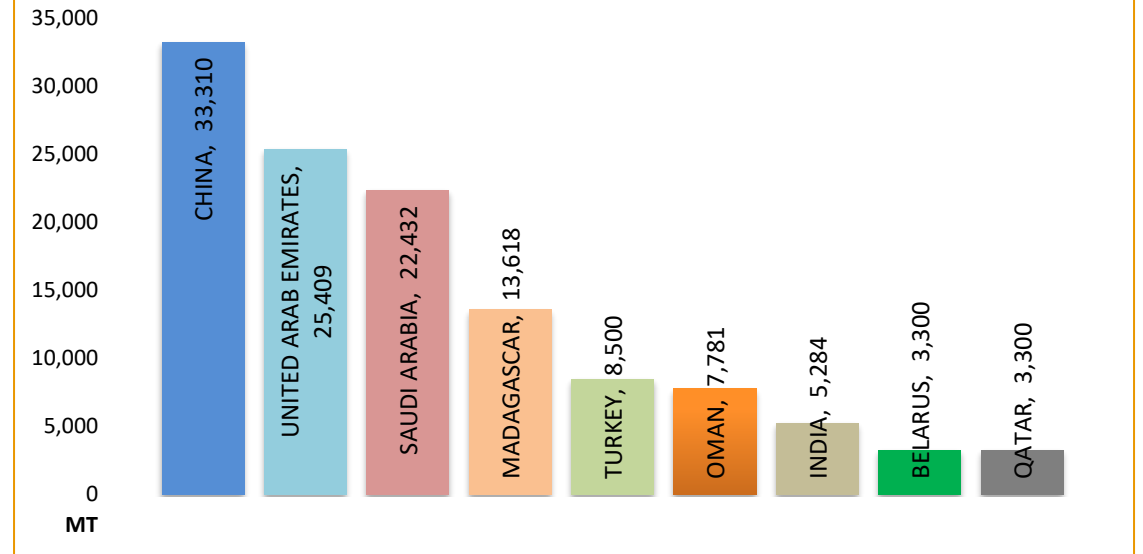
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TOP 9 COUNTRIES OF ORIGIN IN 2021



Countries of Origin	UAE	China	Oman	Saudi Arabia	Turkey	India	Belarus	Other Countries
NPK	51%	34%	-	2%	-	7%	-	6%
Urea	38%	5%	38%	12%	-	0%	-	8%
SoA	8%	43%	-	0%	-	-	-	49%
CAN	7%	2%	-	-	87%	-	-	5%
DAP	-	-	-	100%	-	-	-	-
MOP	-	-	-	-	-	0%	95%	4%
Others	5%	17%	-	21%	-	0%	-	57%

TOP 9 COUNTRIES OF ORIGIN IN 2022*



Countries of Origin	China	UAE	Saudi Arabia	Madagascar	Turkey	Oman	India	Belarus	Other Countries
NPK	39%	41%	-	-	-	-	12%	-	8%
Urea	28%	24%	7%	-	-	19%	-	-	22%
SoA	31%	1%	-	55%	-	5%	-	-	8%
CAN	-	-	-	-	100%	-	-	-	0%
DAP	-	-	96%	-	-	4%	-	-	-
MOP	-	-	-	-	-	-	-	99%	1%
Others	-	2%	-	-	-	-	-	-	98%

* About 7,860mt of SoA from Korea Republic and 6,660mt from Madagascar.

NPK Import Analysis

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HS Code	Fertilizer Name	2016	2017	2018	2019	2020	2021	2022*
3105200000	Total NPK	28,572	75,046	118,557	143,610	183,919	220,258	44,230
3105510000	Total NP	22,339	48,550	10,686		1	2,000	-
3105700000	Total NK	30	-	-	-	-	-	-
3105600000	Total PK	-	-	-	-	-	-	-
Total (mt)		50,941	123,596	129,243	143,610	183,919	222,258	44,230

Comments

- Blending companies import Urea, TSP, DAP, MAP and MOP to blend different formulations of NPK for farmers in Malawi.
- Blenders and other major fertilizer importing companies also import finished NPK with various grades to sell directly to farmers.
- NPK 8-18-15 + 6S + 0.1B + 0.1Zn (Compound D) and NPK 10-24-20 + 6S + 0.1B (Super D) are the most used NPK fertilizers in Malawi.
- Above table represents the breakdown of NPK, NP, and NP compounds that have been imported to Malawi.
- On the average, **XXX** mt of NPKs are blended in the country.

NPK, NP, PK and NK import	2016	2017	2018	2019	2020	2021	2022*
NPK	13,079	58,227	81,918	63,348	67,415	131,673	24,135
NPK 23-10-5 + 6S + 1Zn	6,302	10,465	20,509	57,893	88,098	62,603	19,671
NPK 23-10-5			3,674	9,162	19,060	14,990	30
NPK 25-5-10 + TE	1,740	1,990	2,422	6,973	5,170	4,798	
NPK 10-20-20 + 5S + 0.2B + 0.2Zn						75	120
NPK 10-26-26							3,566
NPK 23-10-5 + 6S			5,500		2,950	2,000	
NP 23-21-0 + 4S	22,339	40,409	8,638			2,000	
NPK 12-10-8	3	8	9	42	33	163	118
NPK 10-18-24	6,740		60	93	30	140	
NPK 13-24-12 + 3S + 0.1Zn							120
NPK 10-24-20 + 6S + 0.1B	30		500		550	50	
NPK foliar	13	19	82	79	62	40	30
NPK 19-19-19 + TE							20
NPK 6-20-24 + 6S + 0.2B + 0.2Zn					90	10	
NPK 8-20-24 + 6S + 0.2B + 0.2Zn		355		1	30	10	
NPK 24-10-20 + 6S + 0.1B					250		
NPK 8-18-15 + 6S + 0.1B + 0.1Zn	30		246	881	151		65
NPK 18-5-18 + 2S + 0.1B + 0.1Zn					30		
NP Compound		7,438	1,748		1		
NPK 17-18-18 + 7S				2,270			
NPK 10-20-10				2,200			
NPK 8-20-24				390			
NPK 12-24-12 + 5S + 0.1B		40		180			60
NPK 6-20-24 + 6S				50			
NPK 13-26-13 + 8S				25			
NPK 10-20-10 + 6S				24			
NPK 23-10-5 + 3S + 2MgO + 0.3Zn	605	3,288	560				
NPS 12-46-0 + 7S		703					
NPK 25-5-8		655					
NPK 15-9-20 + TE			237				
NPK 18-6-24	30						
NPK 25-5-10			2,840				
NP 22-20-0			300				
NK 16-0-16	30						
Total (mt)	50,941	123,596	129,243	143,610	183,919	222,258	44,230

Agricultural and Non-agricultural Uses

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Usage	2016		2017		2018		2019		2020		2021		2022	
	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%
Agriculture	159,168	99.9%	334,317	99.9%	350,768	99.2%	359,084	99.7%	504,301	100.0%	494,687	100.0%	137,260	99.5%
Industrial/Mines	113	0.1%	482	0.1%	2,744	0.8%	1,109	0.3%	0	0.0%	23	0.0%	641	0.5%
Total (MT)	159,281	100.0%	334,799	100.0%	353,512	100.0%	360,193	100.0%	504,302	100.0%	494,709	100.0%	137,901	100.0%

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 0.3% of the fertilizer products imported are used for industrial purposes.

Fertilizer Re-Exports

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HS Code	Fertilizer Name	2016	2017	2018	2019	2020	2021	2022
3102100000	Urea		3,511	654	574		603	5,025
3105200000	NPK	236		135	23		2,938	1,678
3105510000	NP Compound	3,401	3,386		90			
	Other fertilizers	-	30	247	3,573	3,240	3,191	390
Total (mt)		3,637	6,927	1,036	4,260	3,240	6,732	7,093

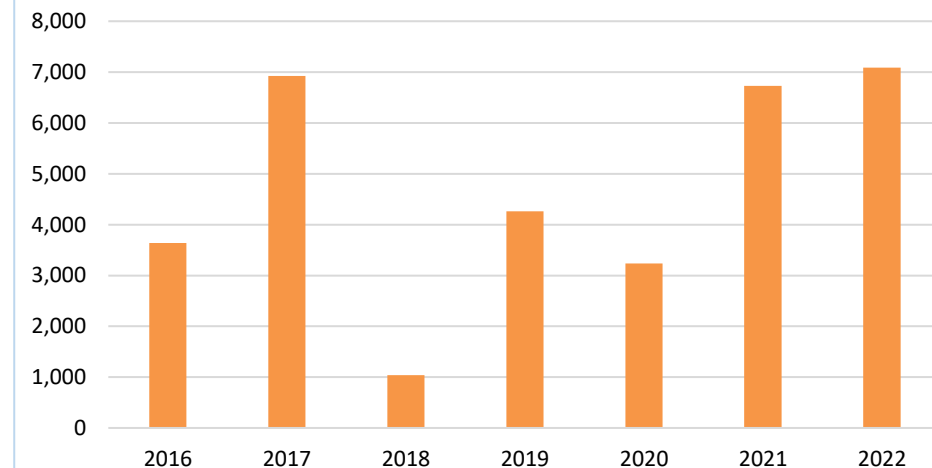


Urea

Comments

- Malawi does not produce inorganic fertilizers, therefore, all inorganic fertilizers leaving the country has been brought in and either blended or sent out in the original form it entered the country.
- A few of Malawi's fertilizers are officially exported or re-exported mostly to Zambia, Mozambique and Zimbabwe.
- There are unofficial exports to neighbouring countries but we currently do not have the estimated volumes.

FERTILIZER EXPORTS FROM MALAWI PER YEAR



Fertilizer Apparent Consumption

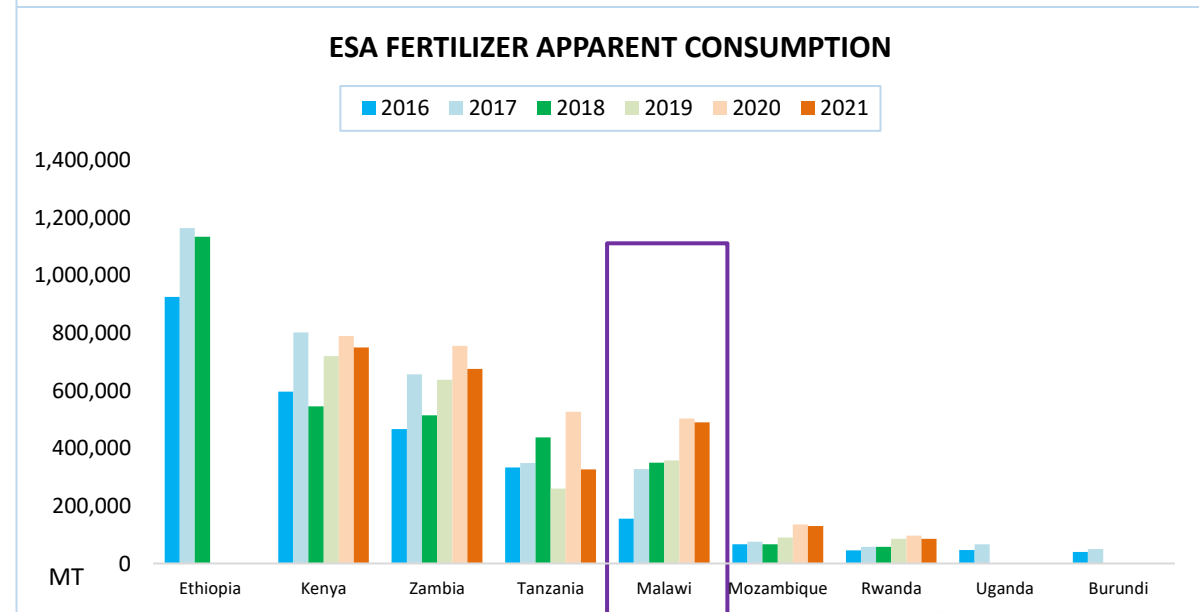
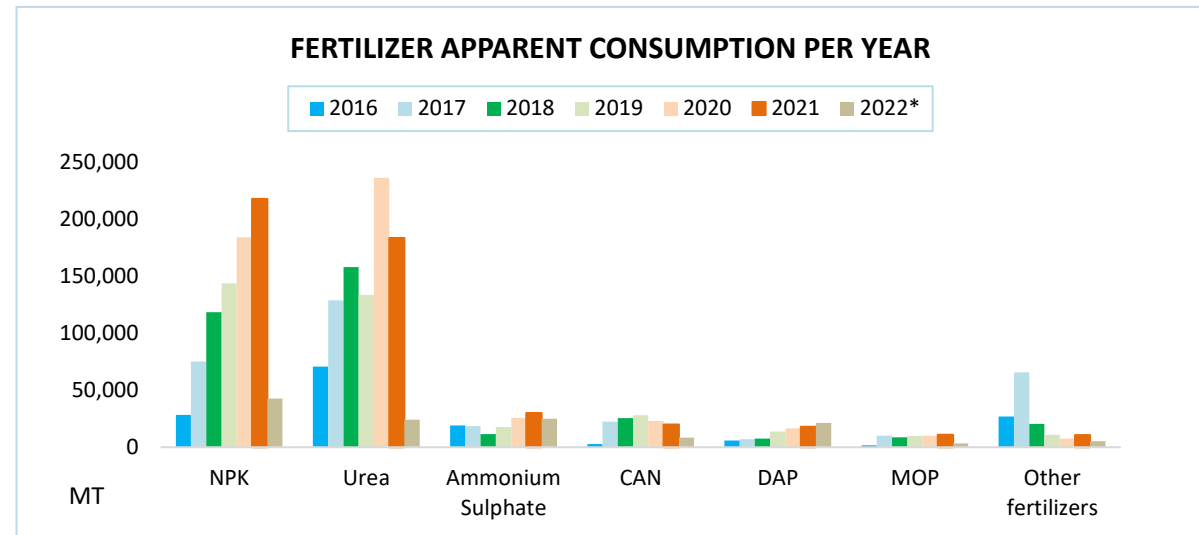
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HS Code	Fertilizer Name	2016	2017	2018	2019	2020	2021	2022*
3105200000	NPK	28,336	75,046	118,167	143,587	183,919	217,320	42,552
3102100000	Urea	70,599	128,654	157,651	133,337	235,926	183,173	24,209
3102210000	Ammonium Sulphate	19,074	18,461	11,588	17,746	25,824	29,964	24,938
3102400000	CAN	2,771	22,387	25,431	28,137	23,127	19,865	8,530
3105300000	DAP	6,006	7,000	7,675	13,700	16,620	18,100	21,262
3104200000	MOP	1,710	10,250	8,715	9,868	10,158	11,038	3,328
3105400000	MAP	4,117	11,800	4,039	1,662	2,084	3,494	90
3104300000	SOP	2,108	3,861	2,092	3,304	4,482	3,968	4,859
3105510000	NP Compound	18,938	45,164	10,686	-	1	2,000	-
	Others fertilizers	1,872	4,799	3,718	6,039	982	1,224	399
Total (MT)		155,531	327,420	349,762	357,380	503,121	490,146	130,167

Comments

- Averagely, from 2016 to 2021, fertilizer apparent consumption in Malawi is around 364,000mt.
- There was a 3% decrease in fertilizer apparent consumption from 2020 to 2021.
- Urea is used in blending other NPKs as well as a top-dressing fertilizer. DAP is also used in blending and also as a basal fertilizer. NPKs are used as basal fertilizers.

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



- Fertilizer demand is estimated to be at between 300,000 to 350,000 MT in a normal year which can be seen in years 2017-2019.
- From 2020 , the Government implemented the Affordable Inputs Program (AIP) which increased the annual fertilizer demand to between 450,000 to 500,000 MT. The AIP program subsidized over 3.5 million farmers in 2020 and 2021. This represents over 70% of the market demand. Therefore, much of the fertilizer market demand is generated by the subsidy program.
- As a result, the fertilizer industry has become dependent on the subsidy program to make most of their commercial sales. Therefore, any policy Government makes in relation to the subsidy program directly affects the operations of the fertilizer industry.
- Due to forex shortage in Malawi, price volatility, and market disruption caused by the Russia-Ukraine conflict, there has been a drop in imports this year. As of September, 2022, only 26% of the total imports over 2019 had been imported.
- Malawi's main planting period begins in October and runs till February/March depending on when the rains begin and end. Companies begin making orders for the planting season in April/May.
- NPK 23-10-5 + 6S + 1Zn and Urea are the most widely used fertilizers in Malawi and are applied to the staple food crop maize. Other fertilizers imported in smaller quantities are for cash crops such as tobacco, sugar, tea, macadamia etc.
- Imports of NPK mostly 23-10-5 + 6S + 1Zn need to be in the available to farmers latest by September and December for Urea which is used as a top-dressing fertilizer.
- There are approximately between 60,000 and 80,000 MT of carryover stocks in a normal year.
- It should be noted that some fertilizers bought by farmers through the subsidy program cross the border to neighboring countries illegally hence, the apparent consumption is an estimated figure.

Summary of 2016 Fertilizer Statistics

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HS Code	Product Name	Production	Total imports	Industrial Use	Exports	Fertilizer Imports	2016 Apparent Consumption
3102100000	Urea		70,599			70,599	70,599
3105200000	NPK		28,572		236	28,572	28,336
3102210000	Ammonium Sulphate		19,074			19,074	19,074
3105510000	NP Compounds		22,339		3,401	22,339	18,938
3105300000	Diammonium Phosphate		6,006			6,006	6,006
3105400000	Monoammonium Phosphate		4,117			4,117	4,117
3102400000	Calcium Ammonium Nitrate		2,771			2,771	2,771
3104300000	Sulphate of Potash		2,108			2,108	2,108
3104200000	Muriate of Potash		1,710			1,710	1,710
3103100000	Single Super Phosphate		1,150			1,150	1,150
2520101000	Gypsum		600			600	600
9999999990	Enhancers		66			66	66
3105700000	NK Compounds		30			30	30
3101000000	Organic fertilizer		25			25	25
3102900000	Nitrogen Fertilizers		0			0	0
3102300000	Ammonium Nitrate		113	113		-	-
Grand Total (MT)		-	159,281	113	3,637	159,168	155,531

Enhancers includes products that provides the soil/plant with secondary and micronutrients.

Summary of 2017 Fertilizer Statistics

MALAWI

HS Code	Product Name	Production	Total imports	Industrial Use	Exports	Fertilizer Imports	2017 Apparent Consumption
3102100000	Urea		132,165		3,511	132,165	128,654
3105200000	NPK		75,046			75,046	75,046
3105510000	NP Compounds		48,550		3,386	48,550	45,164
3102400000	Calcium Ammonium Nitrate		22,387			22,387	22,387
3102210000	Ammonium Sulphate		18,461			18,461	18,461
3105400000	Monoammonium Phosphate		11,800			11,800	11,800
3104200000	Muriate of Potash		10,250			10,250	10,250
3105300000	Diammonium Phosphate		7,000			7,000	7,000
3104300000	Sulphate of Potash		3,861			3,861	3,861
2520101000	Gypsum		2,291			2,291	2,291
3102300000	Ammonium Nitrate		1,982	482		1,500	1,500
9999999990	Enhancers		599			599	599
3102600000	Calcium Nitrate		233			233	233
3103100000	Single Super Phosphate		90			90	90
3101000000	Organic fertilizer		34			34	34
2834210000	Potassium Nitrate		30			30	30
3102900000	Nitrogen Fertilizers		16			16	16
3103101000	Triple Super Phosphate		5			5	5
2510000000	Phosphate Rock				30	-	0
Grand Total (MT)		-	334,799	482	6,927	334,317	327,420

Enhancers includes products that provides the soil/plant with secondary and micronutrients.

Summary of 2018 Fertilizer Statistics

MALAWI

HS Code	Product Name	Production	Total imports	Industrial Use	Exports	Fertilizer Imports	2018 Apparent Consumption
3102100000	Urea		158,305		654	158,305	157,651
3105200000	NPK		118,557		135	118,557	118,422
3102400000	Calcium Ammonium Nitrate		25,431			25,431	25,431
3102210000	Ammonium Sulphate		11,588			11,588	11,588
3105510000	NP Compounds		10,686			10,686	10,686
3104200000	Muriate of Potash		8,715			8,715	8,715
3105300000	Diammonium Phosphate		7,675			7,675	7,675
3105400000	Monoammonium Phosphate		4,039			4,039	4,039
3102900000	Nitrogen Fertilizers		2,861			2,861	2,861
3104300000	Sulphate of Potash		2,092			2,092	2,092
3103100000	Single Super Phosphate		210			210	210
9999999990	Enhancers		397		202	397	195
3102600000	Calcium Nitrate		130			130	130
2834210000	Potassium Nitrate		34			34	34
3103900000	Phosphate Fertilizer		19			19	19
3101000000	Organic fertilizer		29		15	29	14
3102300000	Ammonium Nitrate		2,744	2,744		-	-
2520101000	Gypsum				30	-	0
Grand Total (MT)		-	353,512	2,744	1,036	350,768	349,762

Enhancers includes products that provides the soil/plant with secondary and micronutrients.

Summary of 2019 Fertilizer Statistics

MALAWI

HS Code	Product Name	Production	Total imports	Industrial Use	Exports	Fertilizer Imports	2019 Apparent Consumption
3105200000	NPK		143,610		23	143,610	143,587
3102100000	Urea		133,911		574	133,911	133,337
3102400000	Calcium Ammonium Nitrate		28,260		123	28,260	28,137
3102210000	Ammonium Sulphate		17,746			17,746	17,746
3105300000	Diammonium Phosphate		13,700			13,700	13,700
3104200000	Muriate of Potash		9,868			9,868	9,868
3104300000	Sulphate of Potash		3,304			3,304	3,304
3102300000	Ammonium Nitrate		4,409	1,109		3,300	3,300
3102900000	Nitrogen Fertilizers		2,829		480	2,829	2,349
3105400000	Monoammonium Phosphate		1,662			1,662	1,662
2520101000	Gypsum		136			136	136
3103100000	Single Super Phosphate		116			116	116
3103101000	Triple Super Phosphate		90			90	90
3102600000	Calcium Nitrate		30			30	30
3101000000	Organic Fertilizer		11			11	11
3103900000	Phosphate Fertilizer		6			6	6
2834210000	Potassium Nitrate		0			0	0
3102500000	Sodium Nitrate		0	0		-	-
3105510000	NP Compound				90	-	0
9999999990	Enhancers		504		2,970	504	0
Grand Total (MT)		-	360,193	1,109	4,260	359,084	357,380

Enhancers includes products that provides the soil/plant with secondary and micronutrients.

Summary of 2020 Fertilizer Statistics

MALAWI

HS Code	Product Name	Production	Total imports	Industrial Use	Exports	Fertilizer Imports	2020 Apparent Consumption
3105200000	NPK		183,919			183,919	183,919
3102100000	Urea		235,926			235,926	235,926
3102210000	Ammonium Sulphate		26,335		511	26,335	25,824
3102400000	Calcium Ammonium Nitrate		23,127			23,127	23,127
3105300000	Diammonium Phosphate		16,800		180	16,800	16,620
3104200000	Muriate of Potash		10,158			10,158	10,158
3104300000	Sulphate of Potash		4,482			4,482	4,482
3105400000	Monoammonium Phosphate		2,084			2,084	2,084
3102900000	Nitrogen Fertilizers		685			685	685
3103900000	Phosphate Fertilizer		144			144	144
2520101000	Gypsum		98			98	98
3103100000	Single Super Phosphate		30			30	30
3101000000	Organic Fertilizer		17			17	17
3102600000	Calcium Nitrate		5			5	5
3103101000	Triple Super Phosphate		2			2	2
3105510000	NP Compounds		1			1	1
3104900000	Potash Fertilizer		0			0	0
3102500000	Sodium Nitrate		0	0		-	-
3102300000	Ammonium Nitrate		0	0	384	-	0
9999999990	Enhancers		490		2,165	490	0
Grand Total (MT)		-	504,302	0	3,240	504,301	503,121

Enhancers includes products that provides the soil/plant with secondary and micronutrients.

Summary of 2021 Fertilizer Statistics

MALAWI

HS Code	Product Name	Production	Total imports	Industrial Use	Exports	Fertilizer Imports	2021 Apparent Consumption
3105200000	NPK		220,258		2,938	220,258	217,320
3102100000	Urea		183,775		603	183,775	183,173
3102210000	Ammonium Sulphate		30,035		71	30,035	29,964
3102400000	Calcium Ammonium Nitrate		19,865			19,865	19,865
3105300000	Diammonium Phosphate		18,100			18,100	18,100
3104200000	Muriate of Potash		11,038			11,038	11,038
3104300000	Sulphate of Potash		4,568		600	4,568	3,968
3105400000	Monoammonium Phosphate		3,494			3,494	3,494
3105510000	NP Compounds		2,000			2,000	2,000
3102900000	Nitrogen Fertilizers		900			900	900
2520101000	Gypsum		178			178	178
3102600000	Calcium Nitrate		125			125	125
3101000000	Organic Fertilizer		20			20	20
2834210000	Potassium Nitrate		0			0	0
3102300000	Ammonium Nitrate		23	23		-	-
3102500000	Sodium Nitrate		0	0		-	-
9999999990	Enhancers		329		2,520	329	0
Grand Total (MT)		-	494,709	23	6,732	494,687	490,146

Enhancers includes products that provides the soil/plant with secondary and micronutrients.

Summary of 2022* Fertilizer Statistics

MALAWI

HS Code	Product Name	Production	Total imports	Industrial Use	Exports	Fertilizer Imports	2022* Apparent Consumption
3105200000	NPK		44,230		1,678	44,230	42,552
3102100000	Urea		29,234		5,025	29,234	24,209
3102210000	Ammonium Sulphate		24,968		30	24,968	24,938
3105300000	Diammonium Phosphate		21,262			21,262	21,262
3102400000	Calcium Ammonium Nitrate		8,530			8,530	8,530
3104300000	Sulphate of Potash		5,009		150	5,009	4,859
3104200000	Muriate of Potash		3,328			3,328	3,328
3102900000	Nitrogen Fertilizers		224			224	224
3105400000	Monoammonium Phosphate		90			90	90
3101000000	Organic Fertilizer		44			44	44
3102600000	Calcium Nitrate		40			40	40
9999999990	Enhancers		301		210	301	91
3102300000	Ammonium Nitrate		641	641		-	-
3102500000	Sodium Nitrate		0	0		-	-
Grand Total (MT)		-	137,901	641	7,093	137,260	130,167

*2022 - Data till mid-September.

Enhancers includes products that provides the soil/plant with secondary and micronutrients.

Participants of 2022 FTWG

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Participants of 2022 FTWG

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