



AfricaFertilizer
Data-Driven Decisions for African Food Systems



FERTILIZER STATISTICS OVERVIEW MALI 2018 - 2022

2023 Edition



West African Fertilizer Association
Association Régionale
des Professionnels de l'Engrais



A PROGRAMME OF THE AFRICAN UNION

Outline

1. Production
2. Import
3. Origin
4. Agricultural and non-agricultural use
5. Export
6. Destination
7. Consumption (app)
8. Summary

Background Information

- Overview of fertilizer statistics in Mali from 2018 to 2022.
- The focus is on 2022, and each analysis is based on the products with the highest quantities.
- Data obtained from Malian customs and validated by the Fertilizer Technical Working Group - Mali (FTWG-MLI).
- Data for 2022 were validated on March 16, 2023.

Fertilizer production

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Fertilizer plants in Mali



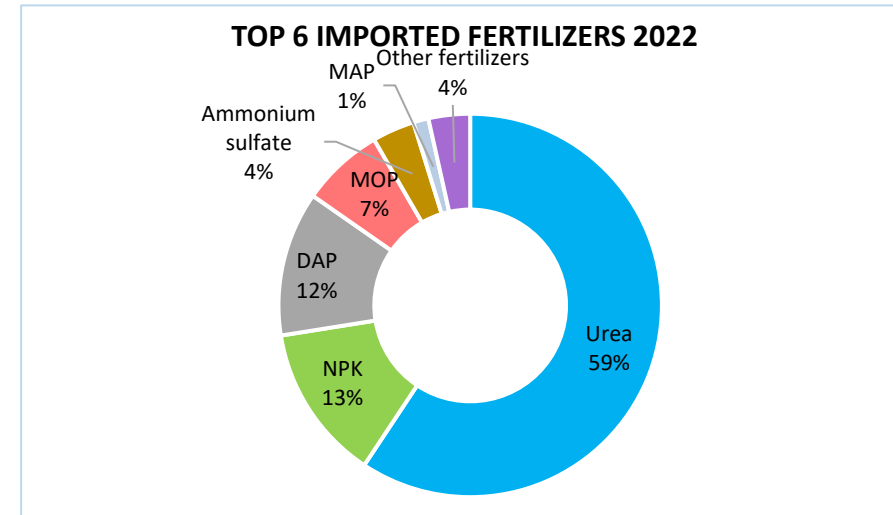
Comments

- Mali produces granulated natural phosphate (PNG), mainly from TOGUNA Agro-Industries. In 2022, PNG production was 100,000 tons.
- ELEPHANT VERT, ORGAFERT and PROFEBA are the main companies producing organic fertilizers. In 2022, organic fertilizer production totaled 84,206 tons.
- DOUCOURÉ PARTENAIRE AGRO Industries (DPA), TOGUNA Agro-Industries and SOGEFERT have blending units in Ségou, Bamako and Sikasso respectively, and manufacture different types of NPK for local consumption and the sub-region.
- To produce NPK fertilizers, five main fertilizers are imported: Urea, MOP, DAP, Ammonium sulphate and MAP, used as raw materials and blended by the country's 3 plants.

Fertilizer imports

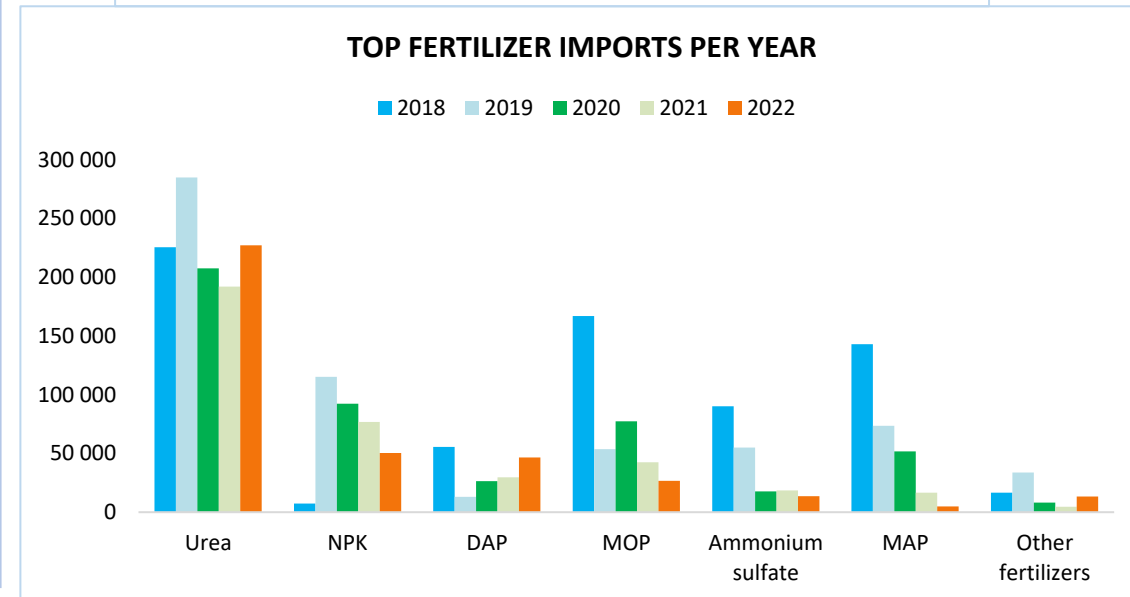
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Code Hs	Fertilizer name	2018	2019	2020	2021	2022
3102100000	Urea	225 504	284 941	207 642	192 127	227 372
3105200000	NPK	7 484	115 310	92 502	76 867	50 466
3105300000	DAP	55 701	13 268	26 464	29 817	46 766
3104200000	MOP	166 984	53 682	77 380	42 611	26 648
3102210000	Ammonium sulfate	90 219	55 136	17 873	18 487	13 678
3105400000	MAP	143 064	73 707	51 689	16 765	4 930
	Other fertilizers	16 790	33 759	8 286	4 753	13 431
Total (tons)		705 746	629 804	481 836	381 426	383 292



Comments

- In 2022, fertilizer imports amounted to 383,292 tons, within the same range as in 2021 (381,426 tons). Over the past five years, Mali's fertilizer imports have been on a downward trend. Some reasons for this decline are as follows:
- Various ECOWAS sanctions due to socio-political crises, the COVID pandemic and recently the Russia-Ukraine war, have seriously affected the fertilizer supply chain.
- In addition to supply problems, fertilizers have become expensive since the end of the COVID pandemic and the start of the Russia-Ukraine crisis.



NPK Import Analysis

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NPK Imported in 2022	Volumes (t)
NPK	49 027
NPK 17-17-17	1 185
NPK 15-15-15	205
NPK 12-10-18 + 2MgO	49
Total	50,466

Main NPK

NPK 14-18-18-18 + 6S + 1B for cotton

NPK 17-17-17-17 or NPK 15-15-15 for cereals

NPK 16-26-12 + 4,5S + 0,3Zn for rice

NPK 10-15-20-5S-0.3Zn-0,02B for vegetables

Comments

- Complex NPKs in various formulations are also imported for direct sale to farmers.
- In 2022, 13% of imports were complex NPK fertilizers for direct application.

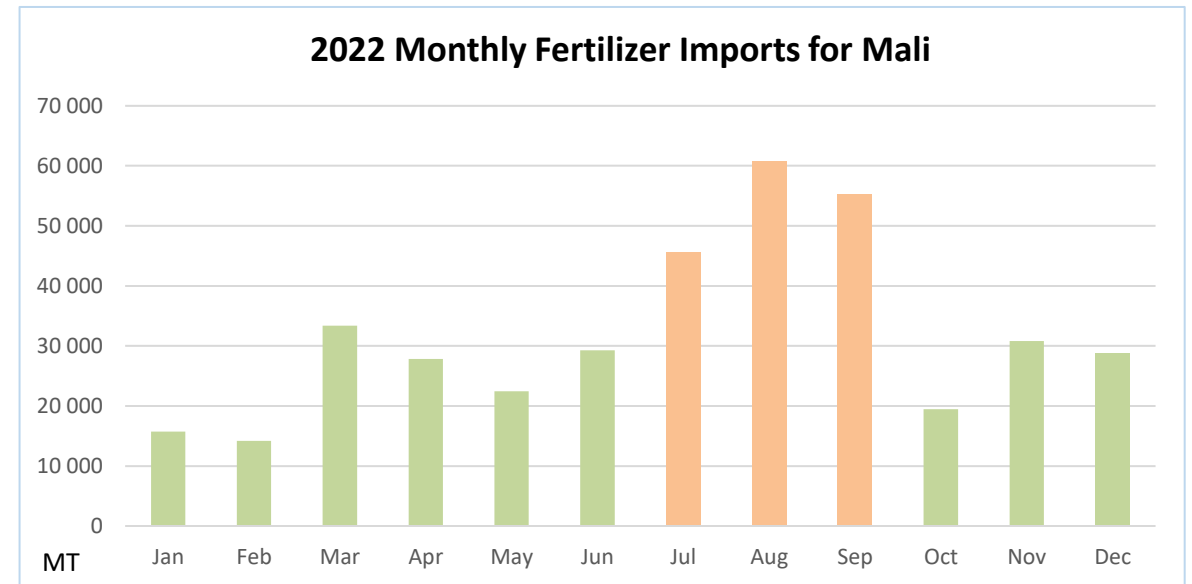


Blended NPK

Fertilizer Monthly Import

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Quarter	2018	2019	2020	2021	2022
Q1	221 337	230 777	225 131	53 860	63 300
Q2	201 390	192 383	141 853	67 471	79 525
Q3	127 269	89 164	88 271	99 038	161 470
Q4	155 749	117 480	26 581	161 056	78 997
Total (tons)	705 746	629 804	481 836	381 426	383 292



Comments

- If we consider the crop calendar, the peak demand for fertilizers is between May and August. It is important that fertilizers are available in the country during the first two quarters of each year.
- The disruption of the fertilizer market due to the Russia-Ukraine crisis affected the supply chain in Mali. At the start of the main fertilizer utilization period (May 2022), there was very little fertilizer available, with a coverage rate of 20%.
- Most fertilizers were imported in the third quarter, accounting for 42% of fertilizer imports in 2022.

Crop Calendar

SEASON	CULTURES	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Major Season (Long Rains)	Irrigated rice									◆	◆	◆	◆
	Maize					◆	◆	◆	◆				
	Millet					◆	◆	◆	◆				
	Rainfed rice						◆	◆	◆	◆	◆	◆	
	Sorghum					◆	◆	◆	◆				
	Cotton					◆	◆	◆	◆				

Fertilizer Peak Demand

Sowing

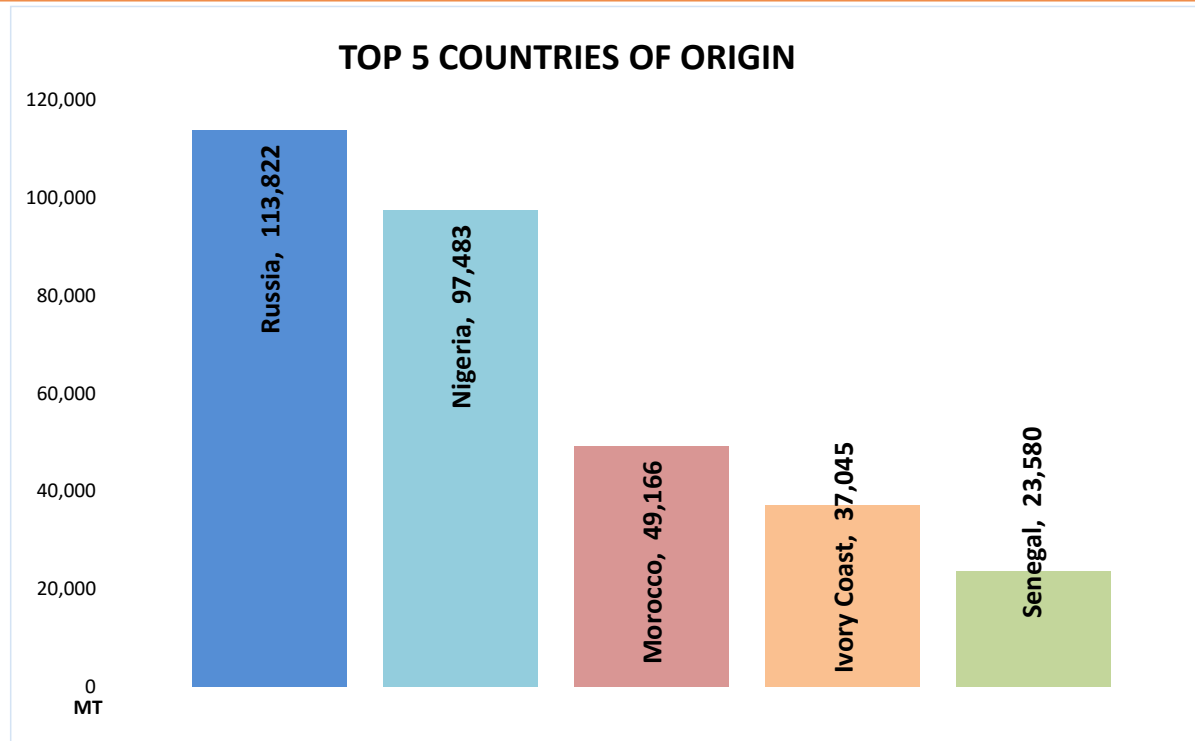
Growing

Harvesting

Source: FAO/GIEWS

Fertilizer Origins

MALI



Comments

- For a long time, Russia was the main supplier of fertilizers.
- Since the start of the Ukraine-Russia crisis, importers have adjusted their strategy and sought alternative sources of supply.
- This is the case for Urea, for which Russia accounts for 45% of imports and Nigeria for 41%, and MOP, for which Russia accounts for 44% and various sources for 56%.

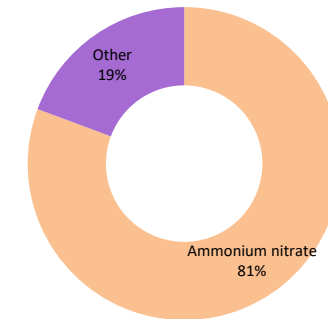
Country of origin	Russia	Nigeria	Morocco	Côte d'Ivoire	Sénégal	Other fertilizers
Urée	45%	41%	0.1%	1%	-	13%
NPK	-	9%	2%	64%	24%	1%
DAP	0.3%	-	93%	0.1%	5%	2%
MOP	44%	-	-	-	-	56%
Other fertilizers	0.2%	-	13%	7%	29%	50%

Agricultural and non-agricultural uses

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Code Hs	Fertilizer Name	2022
3102300000	Ammonium nitrate	25 502
	Other	6 113

2022 NON FERTILIZER USE



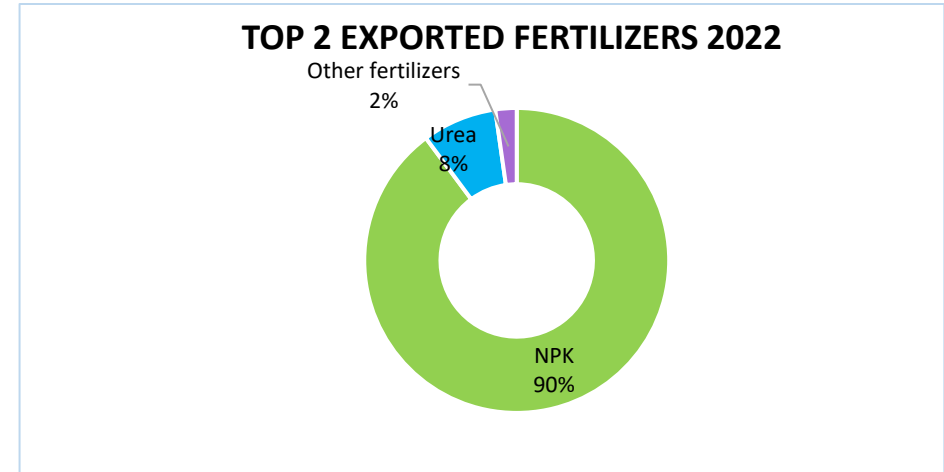
Comments

- Some products may 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.
- The table above shows the use of the product between agricultural and non-fertilizer use.
- All ammonium nitrate imported into Mali is used for industrial purposes.
- In 2022, 8% of fertilizer products imported were used for industrial purposes.

Fertilizer exports

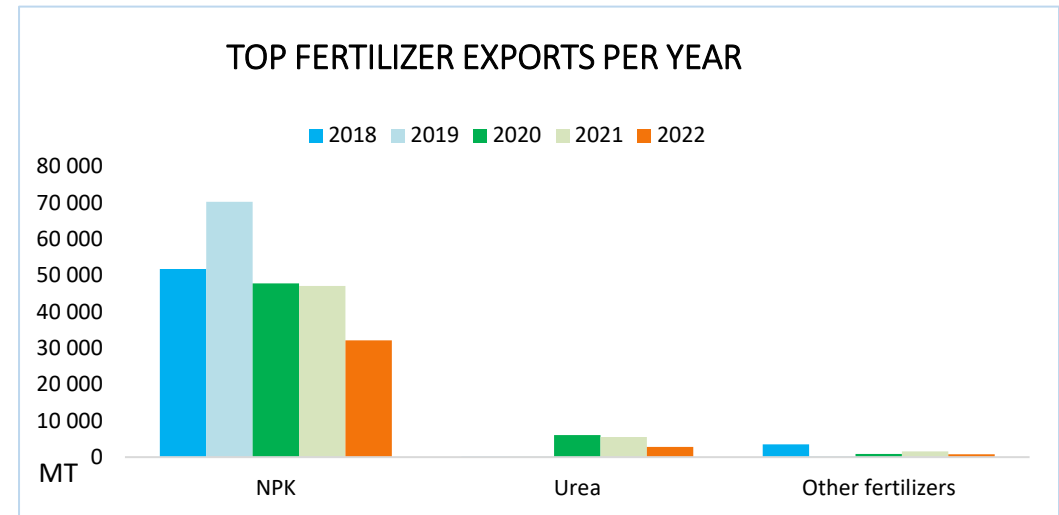
MALI

HS Code	Fertilizer Name	2018	2019	2020	2021	2022
3105200000	NPK	51 762	70 291	47 813	47 102	32 128
3102100000	Urea	90	195	6 044	5 509	2 827
	Other fertilizers	3 560	240	838	1 585	807
Total (tons)		55 411	70 726	54 695	54 196	35 762



Comments

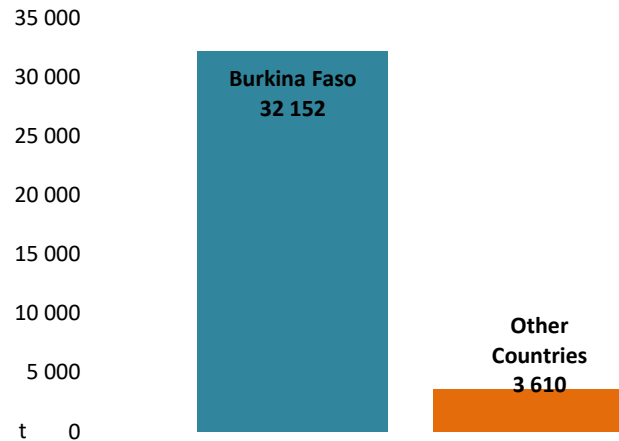
- Fertilizer exports decreased by 34% in 2022, from 54,196 tons in 2021 to 35,762 tons in 2022.
- There was little fertilizer available in Mali, and players gave priority to supplying the local market.
- Of the 35,762 tons exported, 90% were NPK and the remainder Urea, DAP and organic fertilizers.



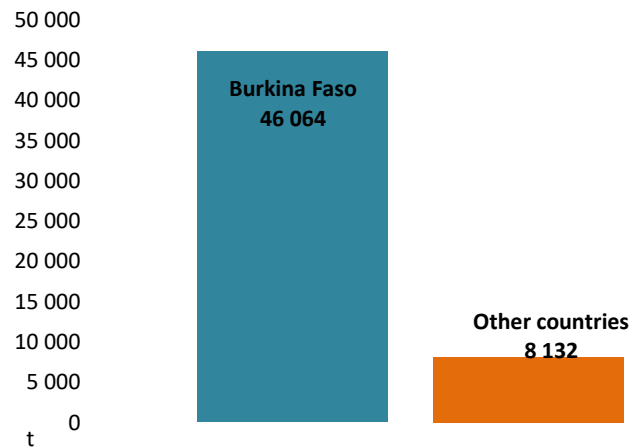
Fertilizer destinations

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2022 DESTINATION COUNTRIES
(EXPORTS)



2021 DESTINATION COUNTRIES (EXPORTS)



Comments

- Burkina Faso remains Mali's main customer.
- In 2022, 90% of fertilizers were exports to Burkina Faso.
- More than half of exports were NPK 14-18-18 + 6S +1B to Burkina Faso.

Fertilizer Apparent Consumption

MALI

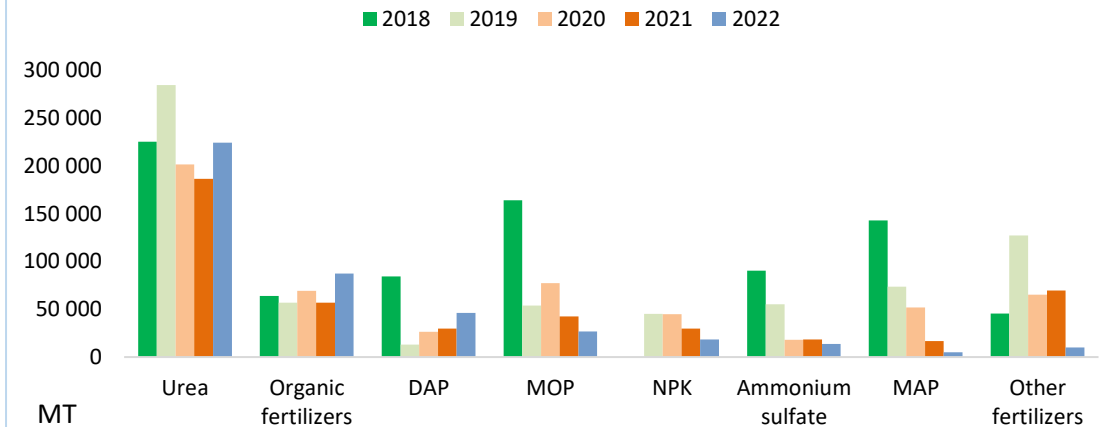
HS Code	Fertilizer Name	2018	2019	2020	2021	2022
3102100000	Urea	225 414	284 746	201 598	186 618	224 545
3101000000	organic fertilizers	63 998	56 825	69 206	56 798	87 431
3105300000	DAP	84 305	13 028	26 394	29 763	46 266
3104200000	MOP	163 934	53 682	77 152	42 611	26 648
3105200000	NPK	0	45 018	44 689	29 765	18 338
3102210000	Ammonium sulfate	90 219	55 136	17 873	18 352	13 578
3105400000	MAP	143 064	73 707	51 689	16 572	4 930
	Other fertilizers	45 441	127 308	65 140	69 752	9 999
Total (tons)		816 375	709 451	553 741	450 231	431 736

Comments

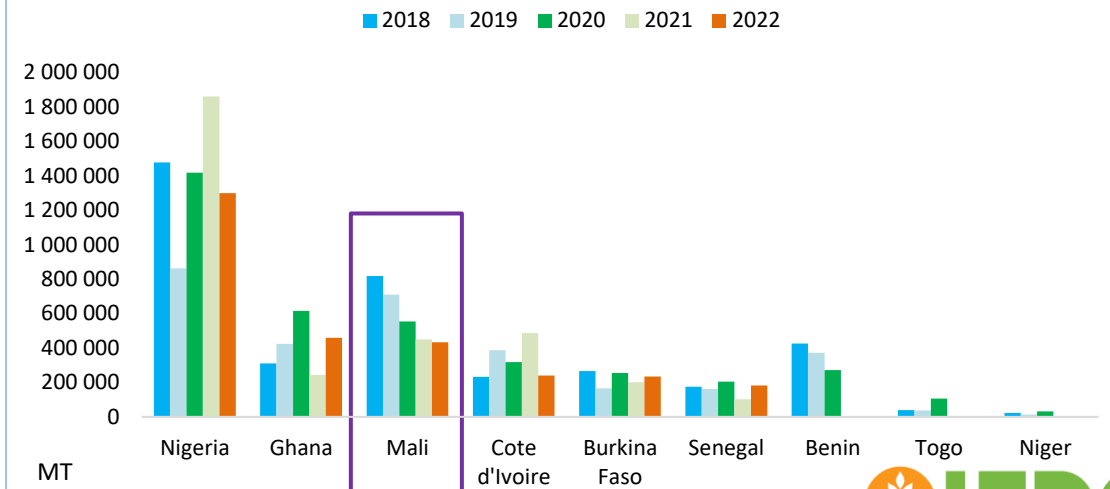
- Fertilizer apparent consumption in Mali decreased by 4% in 2022, from 450,231 tons in 2021 to 431,736 tons in 2022. Some of the reasons for this decline are explained below:
- The first reason is the disruption of the supply chain since the Russia-Ukraine conflict.
- The second is the rise in fertilizer prices, which has led farmers to buy and use less fertilizer.

NB: Apparent consumption = Production + Imports - Exports - Use of non-agricultural products.

TOP FERTILIZER APPARENT CONSUMPTION PER YEAR



WA FERTILIZER APPARENT CONSUMPTION IN 2018 - 2022



Summary of 2022 Fertilizer Statistics

MALI

Code SH	Produit	Production	Total imports	Exports	Industrial	Fertilizers Imports	Apparent consumption 2022
3102100000	Urea		227,372	2,827		227,372	224,545
3101000000	organic fertilizers	84,206	3,432	207		3,432	87,431
3105300000	DAP		46,766	500		46,766	46,266
3104200000	MOP		26,649		1	26,648	26,648
3105200000	NPK		50,466	32,128		50,466	18,338
3102210000	Ammonium sulfate		14,857	100	1,179	13,678	13,578
2510000000	Natural phosphate		9,090			9,090	9,090
3105400000	MAP		4,930			4,930	4,930
3104900000	other potassium fertilizers		814			814	814
9999999990	Other fertilizers (Dolomite, Enhancer)		56			56	56
3104300000	potassium sulfate		25			25	25
3102900000	other nitrogen fertilizers		10			10	10
3103900000	other phosphate fertilizers		4			4	4
2834210000	potassium nitrate		0		0		-
3102300000	ammonium nitrate		25,502		25,502		-
3102500000	sodium nitrate		21		21		-
3102600000	calcium nitrate		4,912		4,912		-
2022 Total (tons)		84,206	414,907	35,762	31,615	383,292	431,736
2021 Total (tons)		123,000	424,208	54,196	42,782	381,426	450,231
% Rate		-31.5%	-2.2%	-34.0%	-26.1%	0.5%	-4%

Participants of 2023 FTWG

MALI

Name	Organization	Position	E-mail
Tiémoko Lanfia TOURE	DIRECTION NATIONALE DE L'AGRICULTURE	Chef de Division	tiemokolanfiatoure@gmail.com
Mariam BA	CPS/SDR	Chef unité Informatique	mariambaborou@gmail.com
Hamadou SANGHO	DIRECTION GENERALE DES DOUANES	Chef section statistique	hsangho2000@gmail.com
Diatigui CAMARA	INSAT	Division des Statistiques Financières et des Services	diaticam@yahoo.fr
Hamidou DIAKITE	DNAT		diakit_hamidou@yahoo.fr
Sekou Sala GUINDO	IER	Chercheur	sekousguindo@yahoo.fr
Alou DAGNON	CMDT	Division Intrants Agricoles	adangnocmdt@gmail.com
Moro DIAKITE	CMDT	Directeur Production Agricole	morodiakite63@gmail.com
Bernard LAGUERRE	ELEPHANT VERT	DG	bernard.laguerre@elephant-vert.com
Moussa SYLLA	ELEPHANT VERT	Directeur Commercial	moussa.sylla@elephant-vert.com
Fatoumata SY	ELEPHANT VERT	Responsable reseau	fatoumata.sy@elephant-vert.com
Tahirou YATTARA	ELEPHANT VERT	Responsable Bamako	tahirou.yattara@elephant-vert.com
Massan Michel KONE	ELEPHANT VERT	Responsable chaine de valeur	michel.kone@elephant-vert.com
Boubacar FOFANA	ELEPHANT VERT	Gestion des subventions	boubacar.fofana@elephant-vert.com
Fatou kine SENE	ELEPHANT VERT		
Mamadou SYLLA	DPA INDUSTRIES	Commercial	mamadousylla@yahoo.fr
Adama TRAORÉ	GNOUMANI	Conseiller	bamboug2@yahoo.fr
Baboye BOCOUM	SOMADECO	Directeur Commercial	Baboyebocoum142@gmail.com
Abdoulaye YALCOUE	TOGUNA AGRO INDUSTRIES	Responsable Commercial	yalcoue@groupepetoguna.com
Bintou TOURE	AGRO TROPIC	Chargée d'Affaires	tbintousirani@yahoo.com
Ousmane DOUMBIA	PROFEBA	Commercial	ousmanesekou@gmail.com
Sinaly TRAORE	GIDAIAM	President	gidiyam235@gmail.com
Moulaye SIBY	UNRIA	Secrétaire Administratif	larabsiby@gmail.com
Ramatoulaye COULIBALY	MALIMARK	Directrice Intrants	rcoulibaly@malimark.org
Dr Cheick-Oumar SISSOKO	AGRI-TECH / TOGUNA	Partenaire Toguna	cheick_oumar_sissoko@yahoo.fr
Daouda KODIO	YASSAMASENESO		daoudakodio84@gmail.com
Lalla GUINDO	ALFAROOM SERVICE	DG	guindolalla@gmail.com
Zachi HAMOU	ALFAROOM TRANSIT	DG	alfaroomtc@gmail.com
Cheick COULIBALY	AGRO BUSINESS	DG	
Oumou COULIBALY	FASO KABA	Directrice	fasokaba@yahoo.fr
SIDIBE	SEWA AGRO BUSINESS	PDG	
Ibrahim TOURE	WAFA	Responsable Adm & Finance	ibrahim.toure@wafafertilizer.org

Participants of 2023 FTWG

MALI



The **AfricaFertilizer** initiative is the leading source of fertilizer statistics and information in Africa.

AfricaFertilizer seeks to provide clear, relevant and timely data and information on the fertilizer market in the Sub-Saharan African region, in order to support the implementation of continental, regional and national policies and regulations on agriculture and fertilizers in particular, and to promote the growth and development of competitive markets, in the interests of both the public and private sectors, and fertilizer industry players worldwide.



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