



OVERVIEW OF FERTILIZER STATISTICS **SENEGAL** 2018 - 2022

Edition 2023 (draft version)

Outline

1. Production
2. Import
3. Origins
4. Agricultural and non-agricultural uses
5. Exports
6. Destination
7. Apparent Fertilizer Consumption
8. Summary

Background Information

- Overview of fertilizer statistics in Senegal from 2018 to 2022.
- The focus is on 2022, and each analysis is based on the products with the highest quantities.
- Official trade data obtained from Senegalese customs and validated by the Technical Working Group on Fertilizers - Senegal (GTTE-SEN).
- Data for 2022 were validated on May 3, 2023.

Fertilizer Production

HS Code	Fertilizer name	2018	2019	2020	2021	2022
2510000000	Phosphate Rock	2,282,126	2,287,216	1,957,642	2,323,447	2,437,145
3105200000	NPK	66,073	158,975	139,615	105,000	89,003
3105400000	MAP	-	-	-	55,000	-
3105300000	DAP	88,086	16,015	31,928	30,000	3,116
3101000000	Organic fertilizers	2,000	3,990	-	1,400	7,725
3103900000	Other phosphate fertilizers	-	-	-	-	-
Total (mt)		2,438,285	2,466,197	2,129,185	2,514,847	2,536,989

Comments

- Senegal has a primary production of natural phosphates. INDORAMA-ICS, SERPM and SOMIVA are the main phosphate production units. In 2022, phosphate production reached 2,437,145 tons.
- ICS converts all its phosphate production into phosphoric acid, which is used to produce DAP, MAP and NPK. To produce NPK, phosphoric acid is mostly mixed with imported ammonia, urea and MOP. In 2022, 3,116 tons of DAP and 89,003 tons of NPK were produced.
- SEDAB and ELEPHANT VERT are the main producers of organic fertilizers. In 2022, organic fertilizer production was 7,725 tons.

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Fertilizer Plants in Senegal



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

Fertilizer Importations

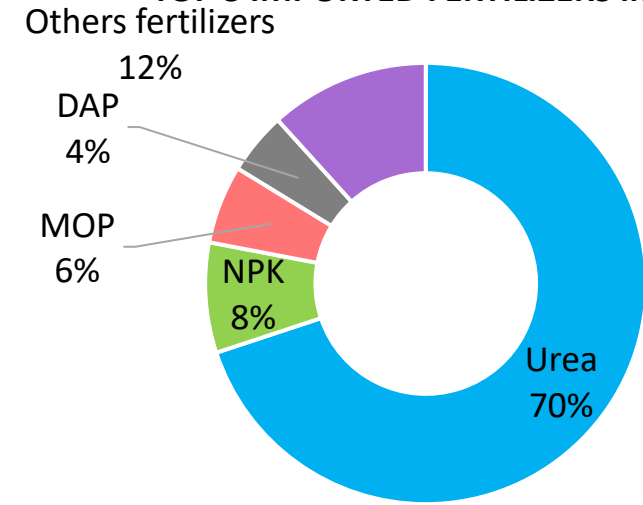
HS Code	Fertilizer name	2018	2019	2020	2021	2022
3102100000	Urea	69,481	58,257	69,949	13,500	75,223
3105200000	NPK	39,000	23,385	28,172	7,495	8,687
3104200000	MOP	3,444	4,538	7,566	4,548	6,183
3105300000	DAP	500	1,187	1,625	203	4,892
	Others fertilizers	4,469	8,767	16,487	12,175	12,595
Total (mt)		116,894	96,134	123,799	37,920	107,579

Comments

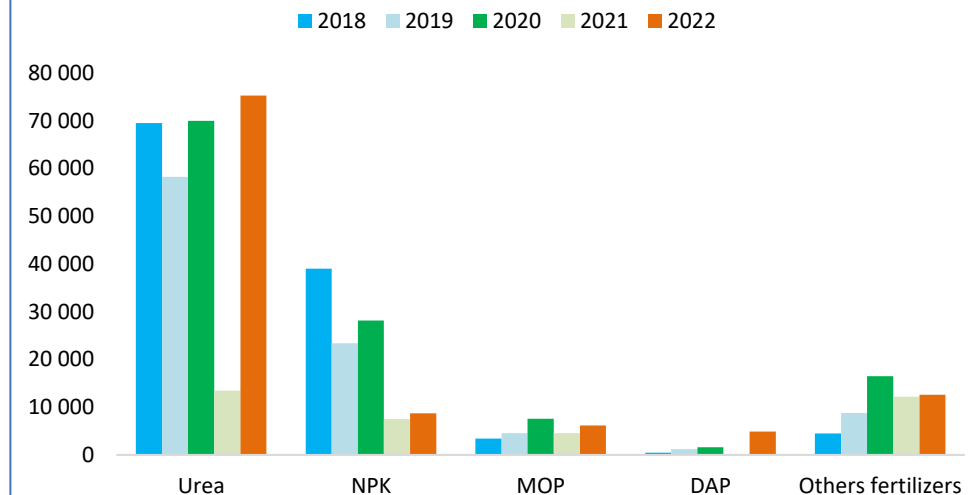
- By 2022, fertilizer imports almost tripled, from 37,920 tons in 2021 to 107,579 tons in 2022. This is especially true for urea. The main reason for this increase is the government's decision to readjust the price of urea (from 550,000 FCFA/tons to 750,000 FCFA/tons) in line with international market prices. This decision prompted importers to mobilize large quantities of urea in response to demand.
- Senegal mainly imports non-phosphate fertilizers (urea and MOP), used to manufacture different types of NPK fertilizers for local consumption or direct application (urea). Apart from local manufacture, 8,687 tons of complex NPK was imported for direct application.

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TOP 3 IMPORTED FERTILIZERS in 2022



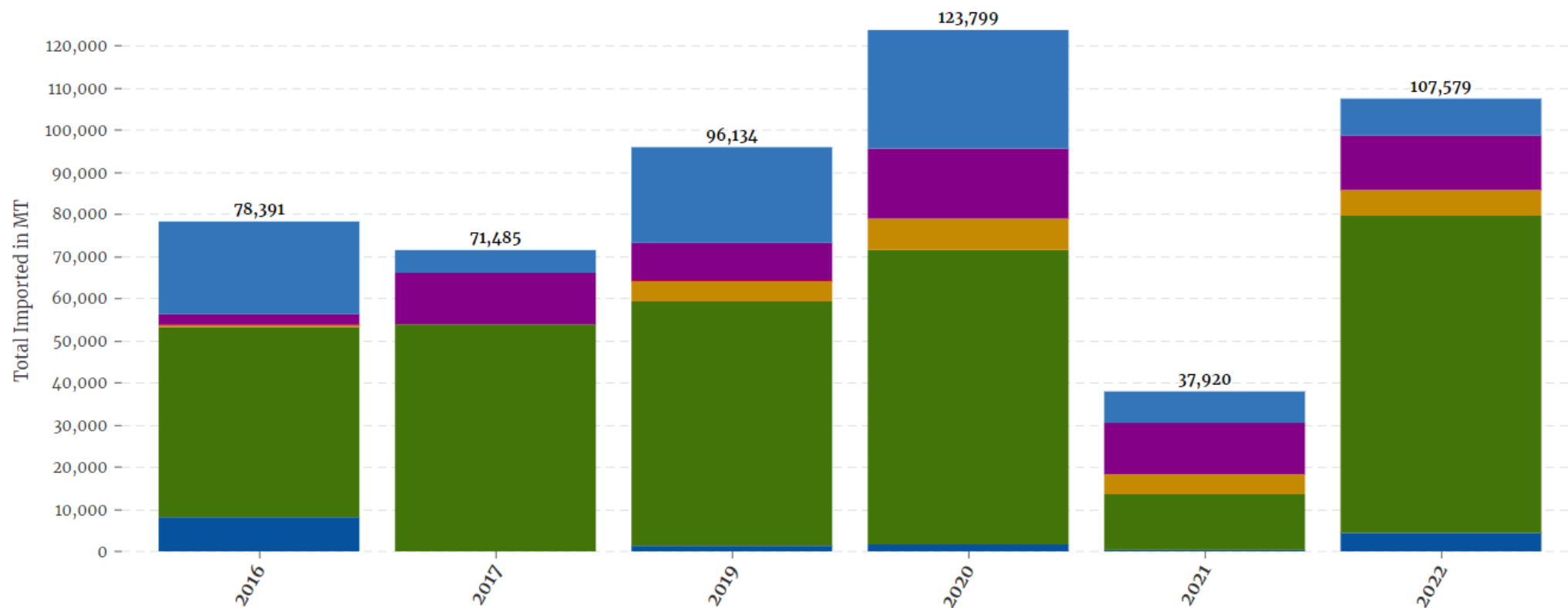
TOP FERTILIZER IMPORTS PER YEAR



Fertilizer Import on the Dashboard

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● Diammonium Phosphate ● Muriate of Potash ● NPK ● Other Fertilizers ● Urea ● Others



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

Analysis of NPK Imports

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NPK import in 2022	Volume (t)
NPK 10-20-10	6,147
NPK	1,101
NPK 15-15-15	826
NPK 12-10-18	265
NPK 18-18-18 + TE	24
NPK 4-6-12	22
NPK 20-20-20	18
NPK 14-6-5 +TE	16

Comments

- Senegal imports NPK complexes for direct sale to farmers.
- In 2022, 8% of imports was NPK complex fertilizers for direct application.
- 6,147 tons was NPK 10-20-10 imported by OCP and used for groundnuts.



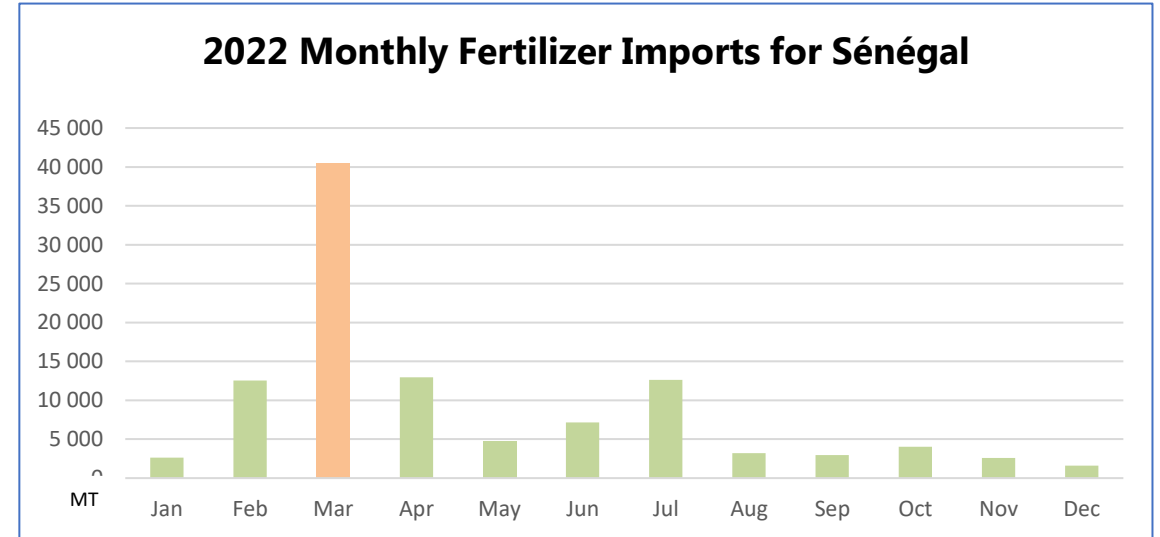
Monthly Fertilizer Imports

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Quarter	2019	2020	2021	2022
Q1	8,800	4,446	3,116	55,655
Q2	44,461	59,997	15,523	24,915
Q3	29,997	44,559	8,360	18,803
Q4	12,876	14,798	10,921	8,206
Total (mt)	96,134	123,799	37,920	107,579

Comments

- If we consider the crop calendar, the peak demand for fertilizers is mainly in the second and third quarters. It is important that fertilizers are available in the country during the second and third quarters of each year.
- In 2022, 52% of fertilizer imports was recorded in the first quarter of the year (55,655 tons).



Crop Calendar

SEASON	CROPS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Major Season (Long Rains)	Groundnut						◆	◆	◆	◆			
	Maize						◆	◆	◆				
	Millet & Sorghum						◆	◆	◆				
	Rice						◆	◆	◆	◆	◆		
	Cotton					◆	◆	◆	◆				
Minor Season	Groundnut,maize,millet, rice					◆	◆	◆	◆				

Key: ◆ Fertilizer Peak Demand Sowing Growing Harvesting

Source: FAO/GIEWS: The main cropping season begins in June / July

Fertilizer Origins

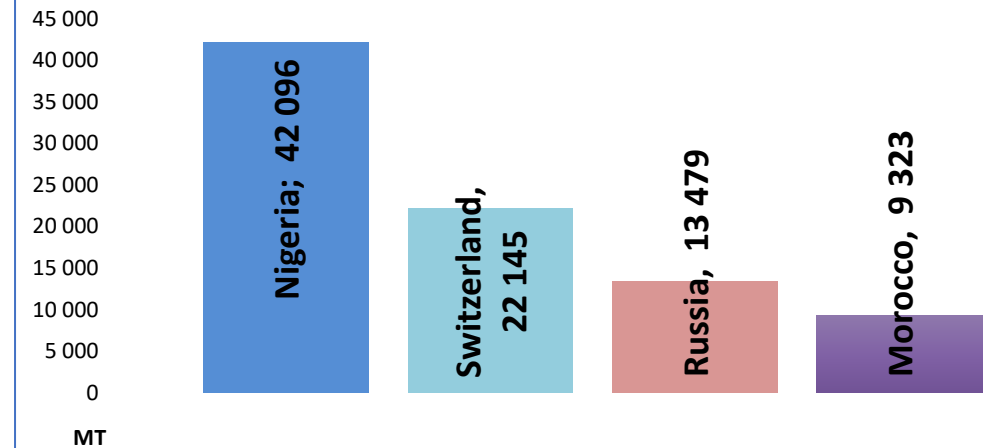
Countries of Origin	Nigeria	Switzerland	Russia	Morocco	Other countries
Urea	56%	29%	15%	-	0%
NPK	-	1%	-	73%	26%
MOP	-	-	20%	-	80%
Other fertilizers	-	1%	7%	17%	76%

Comments

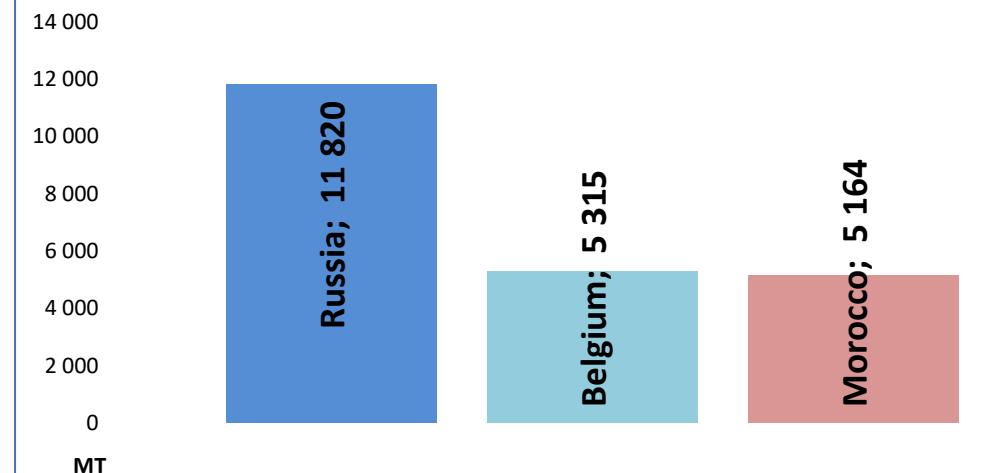
- For a long time, Russia was Senegal's leading supplier of urea and MOP. However, in 2022, importers adjusted their strategy and sought other sources of supply due to the Ukraine-Russia crisis. This was the case for urea, most of which (56%) came from Nigeria, and for MOP, 80% of which came from diversified sources.
- Morocco remains the major supplier of complex NPK (73%) to Senegal.

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TOP 4 COUNTRIES OF ORIGIN IN 2022



TOP 3 COUNTRIES OF ORIGIN IN 2021



Fertilizer Origins on the Dashboard

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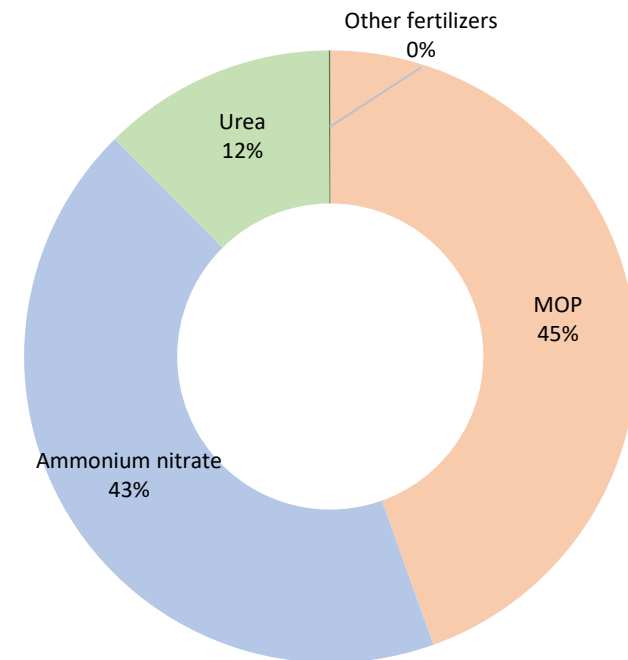


HS Code	Fertilizer Name	2022
3104200000	MOP	15,000
3102300000	Ammonium nitrate	14,501
3102100000	Urea	4,158
	Other fertilizers	26

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.
- All ammonium nitrate imported into Senegal is used for industrial purposes.
- In 2022, 15,000 tons of MOP and 4,158 tons of urea were imported by ICS, to manufacture NPK. MOP and urea used in NPK granulation are considered as industrial uses. They are therefore not included in fertilizer imports, nor are they taken into account in the calculation of apparent consumption.

2022 NON FERTILIZER USE



Fertilizer Exportation

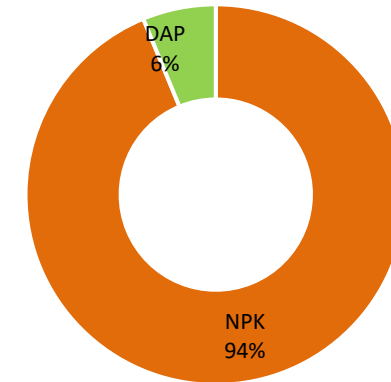
HS Code	Types of fertilizer	2018	2019	2020	2021	2022
3105200000	NPK	21,374	94,019	70,477	45,010	19,073
3105300000	DAP	70,440	6,054	16,247	22,078	1,266
3105400000	MAP				53,887	-
3103900000	Other phosphate fertilizers	934	558		1,500	-
	Other fertilizers	7,336	13,756	4,609	7,056	6,885
Total (mt)		100,084	114,387	91,333	129,532	27,225

Comments

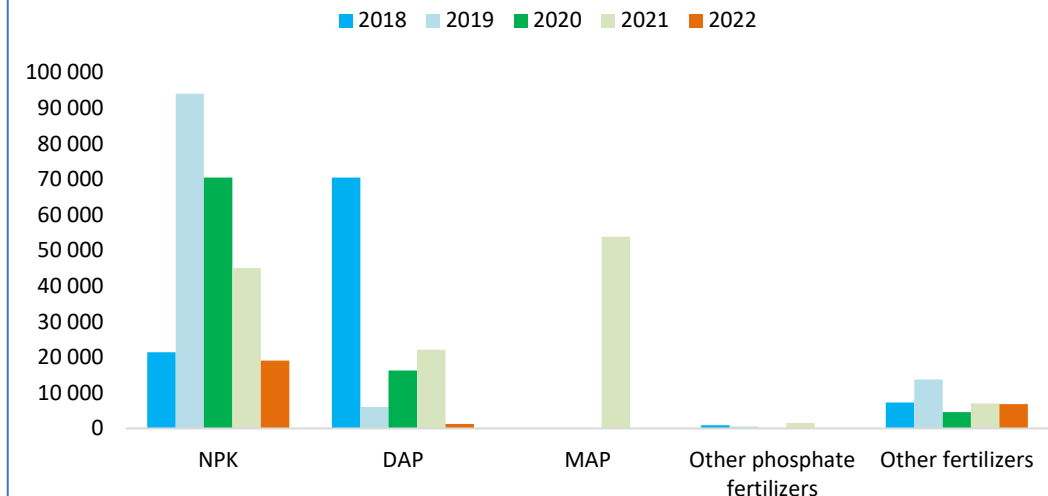
- Exports fell sharply from 129,532 tons in 2021 to 27,225 tons in 2022. The main reason for this decline is the commercial strategy of ICS (the main NPK manufacturer and exporter) to suspend exports and prioritize the local market. The second reason is the ECOWAS embargo against Mali, one of Senegal's major customers.
- Senegal is a major phosphate-exporting country, thanks to its substantial local production. In 2022, 486,545 tons of phosphates were exported.

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TOP 3 FERTILIZER EXPORTS 2022



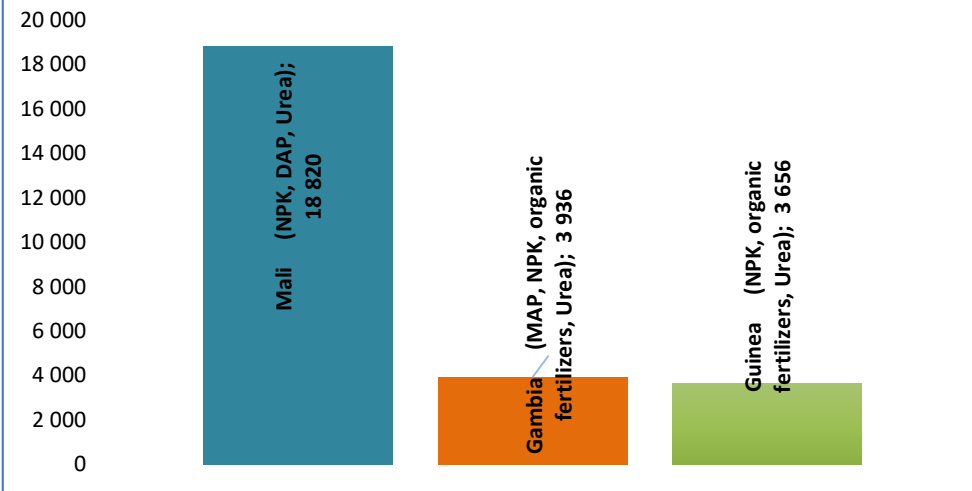
TOP FERTILIZER EXPORTS PER YEAR



Fertilizer Destinations

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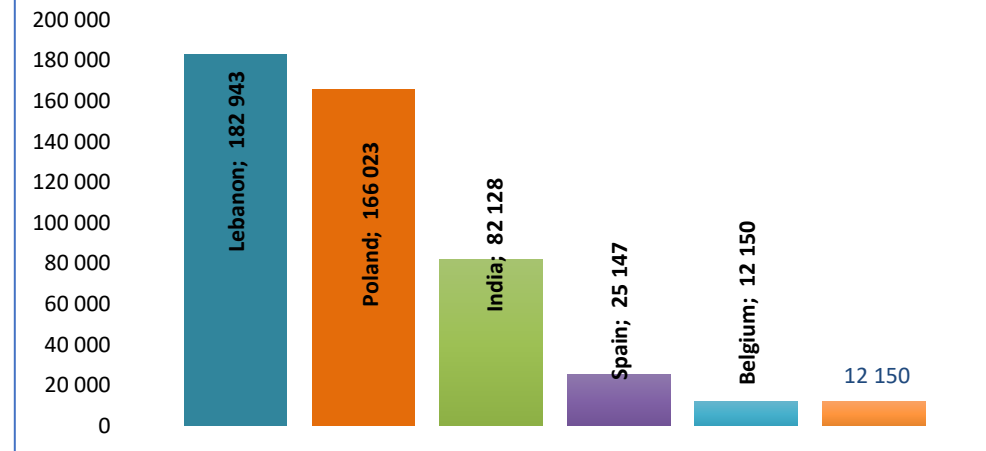
DESTINATION COUNTRIES IN 2022 (EXPORTATIONS)



Comments

- Mali is the main destination for fertilizers produced in Senegal. 69% of exports are destined for Mali. Of the fertilizers exported to Mali, 83% was NPK exports.
- Gambia (14%) is the 2nd destination for fertilizers produced in Senegal. Guinea ranks 3rd with a 13% share.

DESTINATION COUNTRIES FOR PHOSPHATE ROCK IN 2022



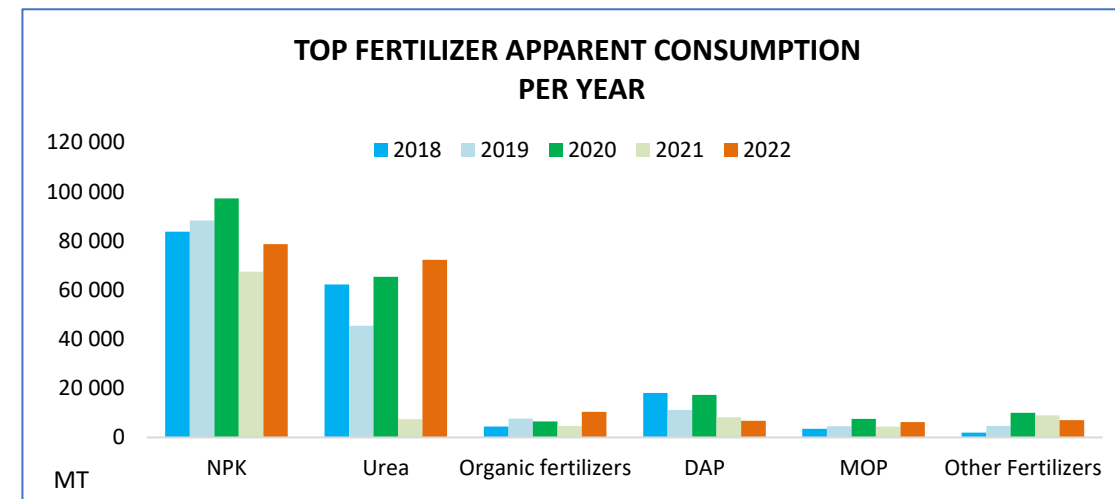
Comments

- In 2022, Lebanon was the leading destination for phosphate rock (38%), ahead of Poland (34%) and India (17%).
- Apart from the quantities of phosphate used in the manufacture of NPK, most of the rock phosphate produced is exported.

Apparent Fertilizer Consumption

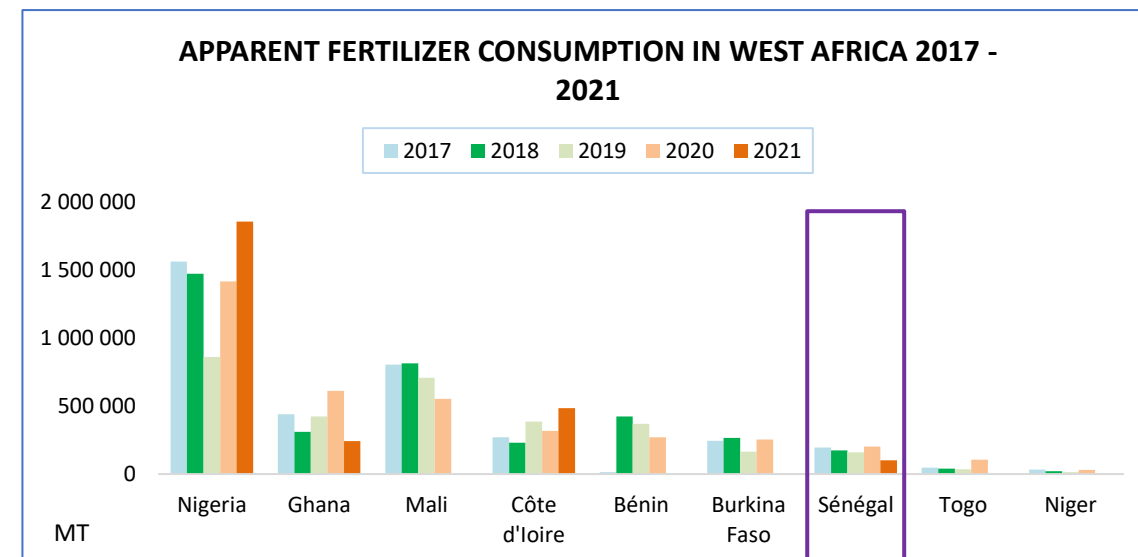
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HS Code	Fertilizer Name	2018	2019	2020	2021	2022
3102100000	NPK	83,699	88,341	97,310	67,484	78,617
3104200000	Urea	62,185	45,459	65,393	7,460	72,217
3101000000	Organic fertilizers	4,405	7,714	6,443	4,706	10,364
3105400000	DAP	18,146	11,148	17,306	8,125	6,742
3102210000	MOP	3,444	4,517	7,566	4,376	6,183
	Other Fertilizers	1,944	4,624	9,991	9,001	7,009
Total (mt)		173,823	161,804	204,010	101,153	181,132



Commentaires

- Apparent fertilizer consumption in Senegal has risen by 79%, from 101,153 tons in 2021 to 181,132 tons in 2022. The reasons for this increase are as follows:
- On the one hand, the State's decision to readjust the price of urea (from 550,000 FCFA/ton to 750,000 FCFA/ton) in line with international market prices had provided a strong incentive for importers to mobilize a large quantity of urea in response to demand.
- On the other hand, ICS, the main supplier of NPK fertilizers for the campaign, had suspended its exports in order to prioritize delivery to the local market, increasing from 65,000 tons in 2021 to 89,000 tons delivered locally in 2022.

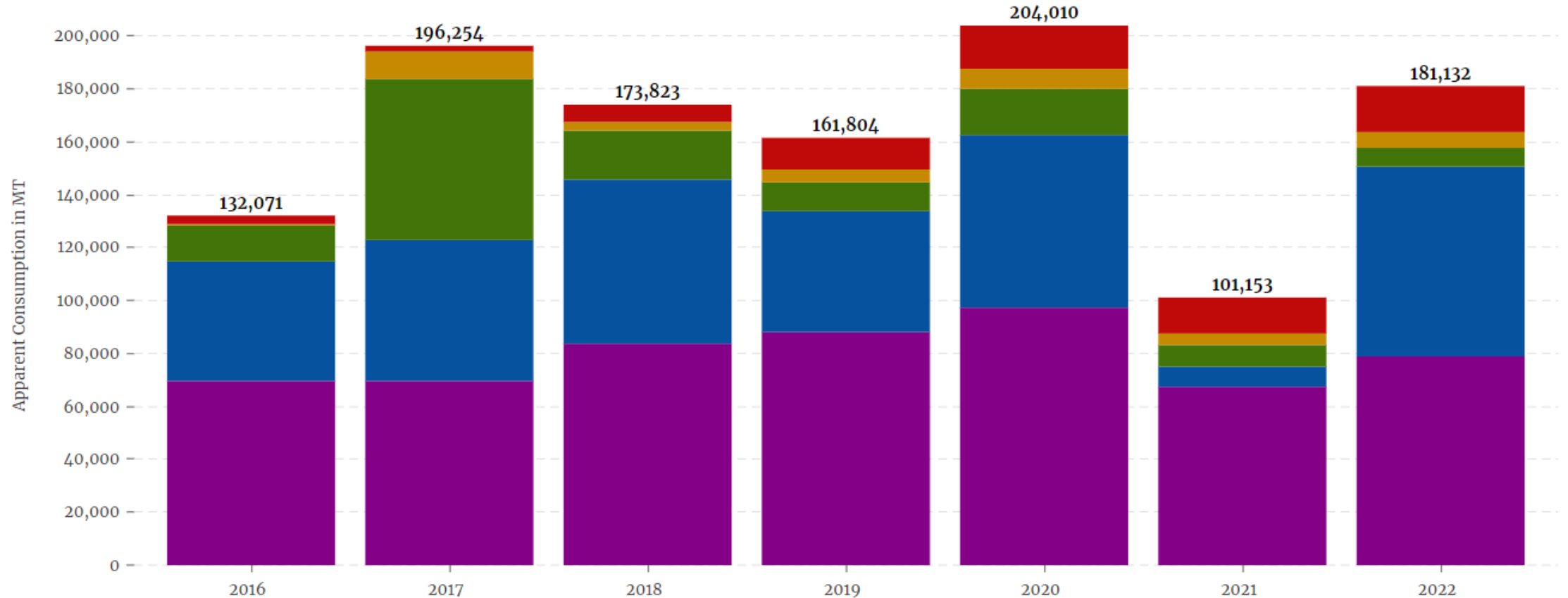


NB: Apparent consumption = Production + Imports - Exports - Non-fertilizer use.

Apparent Fertilizer Consumption on Dashboard

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● Diammonium Phosphate ● Muriate of Potash ● NPK ● Urea ● Others



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

Summary of Fertilizer Statistics for 2022

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HS Codes	Product name	Production	Importation	Exportation	Non-Fertilizer Use	Agricultural imports	Consommation apparente 2022	Apparent consumption 2021	
								Apparent consumption 2021	Variation
3102100000	Urea		79,381	3,006	4,158	75,223	72,217	7,460	868%
3105200000	NPK	89,003	8,687	19,073		8,687	78,617	67,484	16%
3101000000	Organic fertilizer	7,725	5,033	2,394		5,033	10,364	4,706	120%
3105300000	DAP	3,116	4,892	1,266		4,892	6,742	8,125	-17%
3104200000	MOP		21,183		15,000	6,183	6,183	4,376	41%
3104300000	potassium sulphate		2,697			2,697	2,697	3,440	-22%
3102600000	Calcium nitrate		1,336			1,336	1,336	1,064	26%
3105400000	MAP		831			831	831	1,394	-40%
9999999990	Biostimulant		270			270	270	185	46%
2834210000	Potassium nitrate		443			443	443	648	-32%
3102400000	CAN		401			401	401	264	52%
3105700000	NK fertilizer		380			380	380	146	161%
9999999990	Magnesium sulphate		282			282	282	575	-51%
3104900000	other potash fertilizers		205		0	205	205	341	-40%
3102900000	other nitrogenous fertilizers		83			83	83	672	-88%
3105510000	NP fertilizer		22			22	22	#DIV/0!	
3103900000	other phosphate fertilizers		21			21	21	#DIV/0!	
2510000000	Rock phosphate	487,145		487,145		-	-	#DIV/0!	
3102300000	Ammonium nitrate		14,501		14,501	-	-	#DIV/0!	
3102500000	Sodium nitrate		26		26	-	-	#DIV/0!	
3105600000	PK fertilizer		45	6		45	39	51	-25%
3102210000	Ammonium sulfate		546	1,480		546	933	221	-522%
Total engrais (mt) 2022		586,989	141,264	514,369	33,685	107,579	181,132		
Total engrais (tonnes) 2021		744,847	81,987	682,979	44,067	37,920	101,153		
% Change		-21%	72%	-25%	-24%	184%	79%		

FTWG Participants in 2023

SENEGAL

Name	Institutions	Position	Email
Ibrahima Khalil SABALY	DA / MAERSA	Soil Fertility Recovery and Improvement Office Assistant	sabalyibrahimakhalil@gmail.com
Hameth DIA	DAPSA / MAERSA	Countrystat secretariat member	kawhameth@gmail.com
Massène GADIAGA	DIRECTION GENERALE DES DOUANES	Statistician-Econometrist Expert in Economic Policy Management	masgadiaga@douanes.sn
Binetou Diallo BATHILY	ANSD	Engineer Statistician Economist	ext.binetou.bathily@ansd.sn
Mor Tall THIAM	SEDAB / BIOTOSS	Technical Manager	mt-thiam@hotmail.com
Abdoulaye DIEYE	ICS	Sales Manager	abdieye@ics.sn
Josias TOVIHO	ICS	Agronomist	josiastoviho@gmail.com
Syr MBOW	ICS	Marketing	syrmbow64@gmail.com
Pierre Pascal DIENE	OCP	Market Analyst	pp.diene@ocpafrika.com
Oumar BOYE	AFTC	General Manager	oumar@aftcholding.com
Armel OUERESSE	SOLEVO	Managing Director Sahel	armel.oueresse@solevogroup.com
Caleb SEKA	SOLEVO	Regional Business Manager Agro SAHEL	caleb.seka@solevogroup.com
Alima FEDHIOR	SOLEVO	Agro Sales	alima.fedhior@solevogroup.com
Sharad KADAM	ETG	Director Agri inputs Senegal	Sharad.kadam@etgworld.com
Cheihk Bamba Cisse	ETG		cheikhbambacisse@yahoo.fr
Mamadou Lamine DIAGNE	WEST WIND SA	Logistics Manager	mldiagne@westlogisticsa.com
Doudou NGOM	KAISER	Director	doudoungom@hotmail.com
Aissatou DRAME	AMAFRIQUE	Sales Manager	a.drame@amafric.com
Jean Pierre Di MARTINO	AMAFRIQUE	Administrative Manager	di.martino@amafric.com
Ndombé NDIAYE	ELEPHANT VERT	Head of External Relations and Training	ndoumbe.ndiaye@elephant-vert.com
El Hadji Mbaye NDIAYE	PREST-NIAYES	General Manager	mbayeb2@live.fr

Participants du GTTE 2023

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