



FERTILIZER STATISTICS OVERVIEW **NIGERIA** 2017 - 2021

2022 Edition

Nigeria

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 Nigeria from 2017 – 2021.
- Emphasis is on 2021, and each analysis is based on the products with higher quantities.
- Official trade data obtained from the Nigeria Customs Service (NCS) and Nigeria Ports Authority (NPA) as well as production and exports data from private sector
- Validated by Fertilizer Technical Working Group – Nigeria (FTWG-NGA).
- 2021 data validated from 28th February – 1st March, 2022.

Fertilizer Production

NIGERIA

| HS Code | Product | 2017 | 2018 | 2019 | 2020 | 2021 |
|-------------------|---------|------------------|------------------|------------------|------------------|------------------|
| 3102100000 | Urea | 1,420,325 | 1,595,935 | 1,473,858 | 1,435,193 | 2,701,279 |
| 3103100000 | SSP | - | - | - | - | - |
| Total (mt) | | 1,420,325 | 1,595,935 | 1,473,858 | 1,435,193 | 2,701,279 |

Comments

- There is primary production of granulated Urea fertilizer in Nigeria by Notore Chemical Industries PLC, Indorama Fertilizers & Chemical, both are located at Onne, River State and Dangote Fertilizer Limited located in Lagos.
- There was an 88% increase in Urea production in 2021 compared to 2020.
- Notore took over from NAFCON in 2005 and started production of Urea. Indorama's train 1 started production in June 2016 while train 2 started production in 2021. Dangote's train 1 also started production in 2021 and plans to commence train 2 production in 2022. This explains the increment in Urea production in 2021.
- There is also production of SSP but it has been on hold since 2016.
- The number of companies who participated in the fertilizer blending program increased from 31 in 2020 to 52 in 2021.

Fertilizer Plants in Nigeria



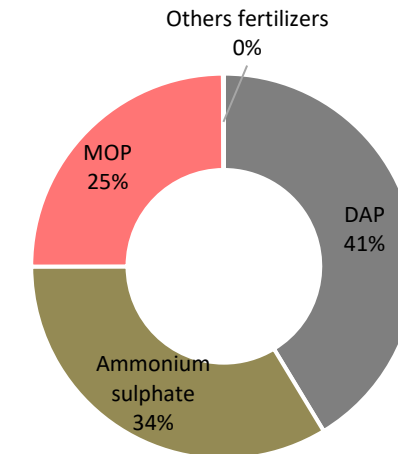
<https://vifaanigeria.org/#/nigeria/directory>

Fertilizer Import

NIGERIA

| HS Code | Fertilizer Name | 2017 | 2018 | 2019 | 2020 | 2021 |
|-------------------|--------------------|----------------|----------------|----------------|----------------|----------------|
| 3105300000 | DAP | 102,770 | 92,956 | 56,800 | 168,181 | 292,158 |
| 3102210000 | Ammonium sulphate | 40,248 | 17,700 | 41,533 | 49,056 | 237,869 |
| 3104200000 | MOP | 121,846 | 95,373 | 29,275 | 199,733 | 176,291 |
| 3105200000 | NPK | 399,949 | 351,821 | 1,785 | 1,016 | 27 |
| 3105510000 | NP compounds | 96,984 | 111,500 | - | - | - |
| 3102100000 | Urea | 12 | - | - | - | - |
| | Others fertilizers | 42,285 | 48,101 | 2,064 | 11,316 | 576 |
| Total (mt) | | 804,093 | 717,450 | 131,458 | 429,303 | 706,922 |

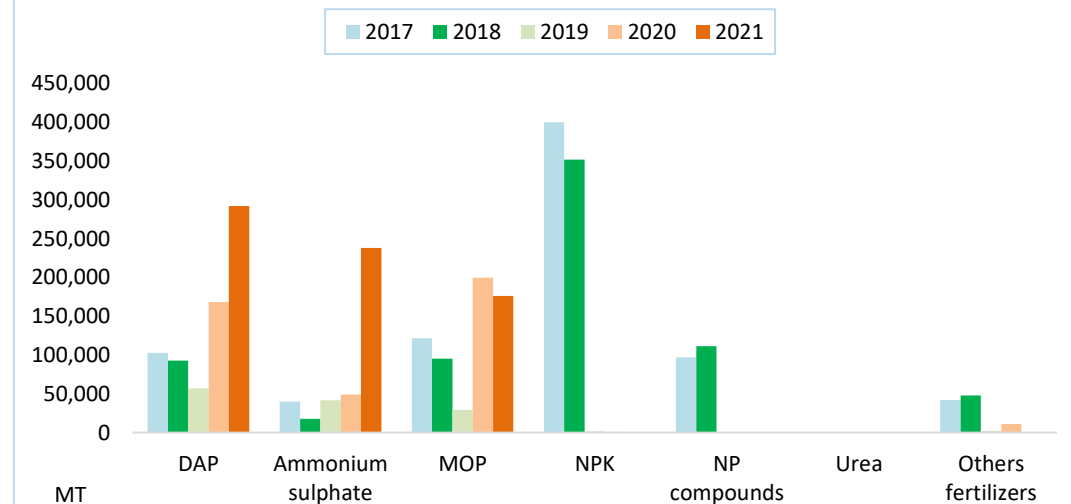
TOP IMPORTED FERTILIZERS 2021



Comments

- Official fertilizer imports to Nigeria increased by 65% from 2020 to 2021.
- There was a restriction on forex, on fertilizers and a ban on imported NPK 15-15-15 in Nigeria from Q4 of 2018, which affected the importation in 2019. Nigeria is now importing raw materials to enable the local NPK industry.
- There was a restructuring in the modalities of the PFI in 2020, from the allocation process to demand driven based on capacities (finance, ability to blend) of fertilizer companies.
- The number of blending plants increased from 31 in 2020 to 52 at the end of 2021.
- There was a restriction on importation of Urea from 2016 which accounts for the drop or nonexistence of Urea imports from 2017. Urea producers in the country currently produces more than what is consumed locally.

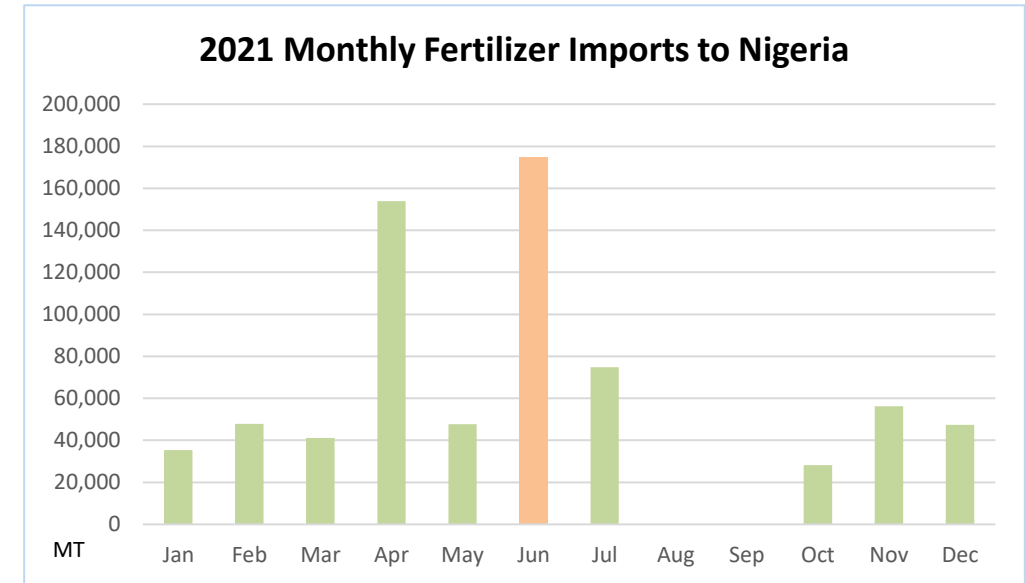
TOP FERTILIZER IMPORTS PER YEAR



Fertilizer Monthly Import

NIGERIA

| Quarter | 2017 | 2018 | 2019 | 2020 | 2021 |
|-------------------|----------------|----------------|----------------|----------------|----------------|
| Q1 | 191,629 | 204,513 | 6,486 | 123,248 | 124,059 |
| Q2 | 316,803 | 308,218 | 35,938 | 157,117 | 376,272 |
| Q3 | 196,992 | 183,020 | 45,284 | 78,202 | 74,735 |
| Q4 | 98,670 | 21,699 | 43,749 | 70,736 | 131,857 |
| Total (mt) | 804,093 | 717,450 | 131,458 | 429,303 | 706,922 |



Comments

- In 2021, most of the DAP, Ammonium sulphate and MOP fertilizers imported were recorded in the second quarter.
- 71% of the Fertilizers imported was recorded in the first half of the year (500,330mt).
- 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 (South) | | | | | ◆ | ◆ | ◆ | ■ | ■ | ■ | ■ | ■ |
| | Maize (North main*) | | | | | ◆ | ◆ | ◆ | ■ | ■ | | | |
| | Maize (South main*) | | | ◆ | ◆ | ◆ | ■ | ■ | ■ | ■ | | | |
| | Millet | | | | | | ◆ | ◆ | ■ | ■ | ■ | | |
| | Sorghum | | | | ◆ | ◆ | ◆ | ■ | ■ | ■ | ■ | | |
| | Rice | | | | ◆ | ◆ | ◆ | ■ | ■ | ■ | ■ | | |
| | Yams | | ◆ | ◆ | ◆ | ■ | ■ | ■ | ■ | ■ | ■ | | |
| Minor Season (Short Rains) | Cassava, Maize, Millet, Sorghum, Rice, Yams | ◆ | ◆ | ■ | ■ | ■ | ■ | | | | | ◆ | ◆ |

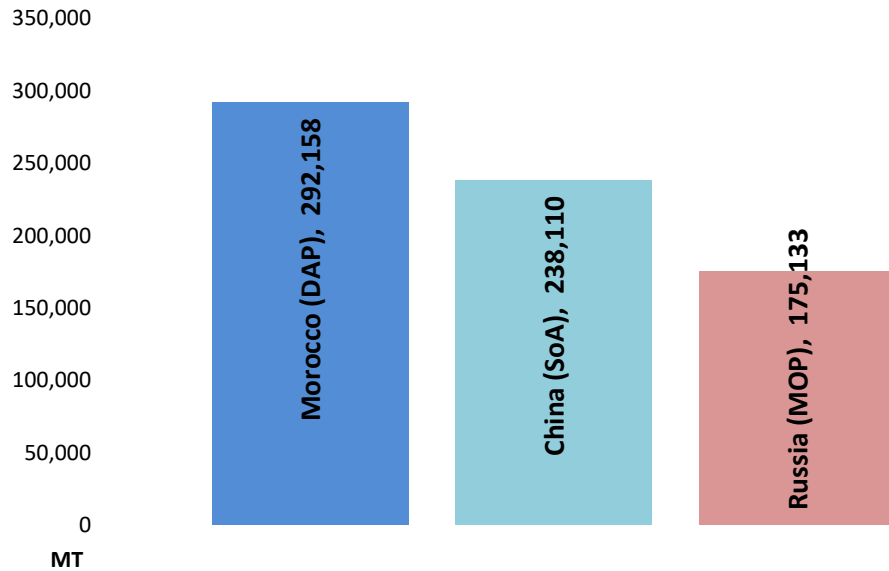
Key: ◆ Fertilizer Peak Demand ■ Sowing ■ Growing ■ Harvesting

Source : FAO/GIEWS

Fertilizer Origins

NIGERIA

TOP 3 COUNTRIES OF ORIGIN



| Countries of Origin | Morocco | China | Russia | Other Countries |
|---------------------|---------|-------|--------|-----------------|
| DAP | 100% | - | - | - |
| Ammonium sulphate | - | 100% | - | - |
| MOP | - | - | 99% | 1% |
| Others | - | 40% | - | 60% |

Others include about 600mt of Organic fertilizers, MAP and potash fertilizers.



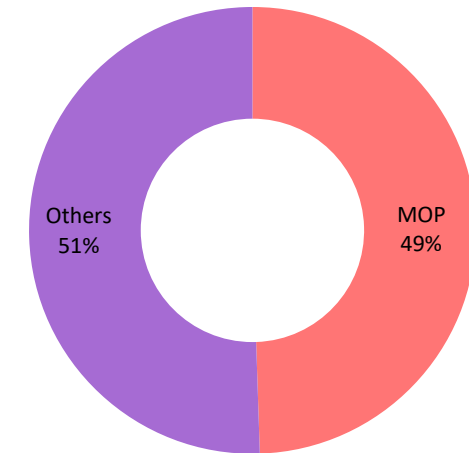
<https://vifaanigeria.org/#/nigeria/availability>

Agricultural and Non-agricultural Uses

NIGERIA

| Usage | 2017 | | 2018 | | 2019 | | 2020 | | 2021 | |
|-------------------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|
| | Volume (MT) | % | Volume (MT) | % | Volume (MT) | % | Volume (MT) | % | Volume (MT) | % |
| Agriculture | 804,093 | 99% | 717,450 | 99% | 131,458 | 96% | 429,303 | 98% | 706,922 | 98% |
| Industrial/Mines | 4,588 | 1% | 5,209 | 1% | 5,188 | 4% | 9,090 | 2% | 13,401 | 2% |
| Total (mt) | 808,682 | 100% | 722,659 | 100% | 136,645 | 100% | 438,393 | 100% | 720,322 | 100% |

2021 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 2% of the fertilizer products imported are used for industrial purposes.

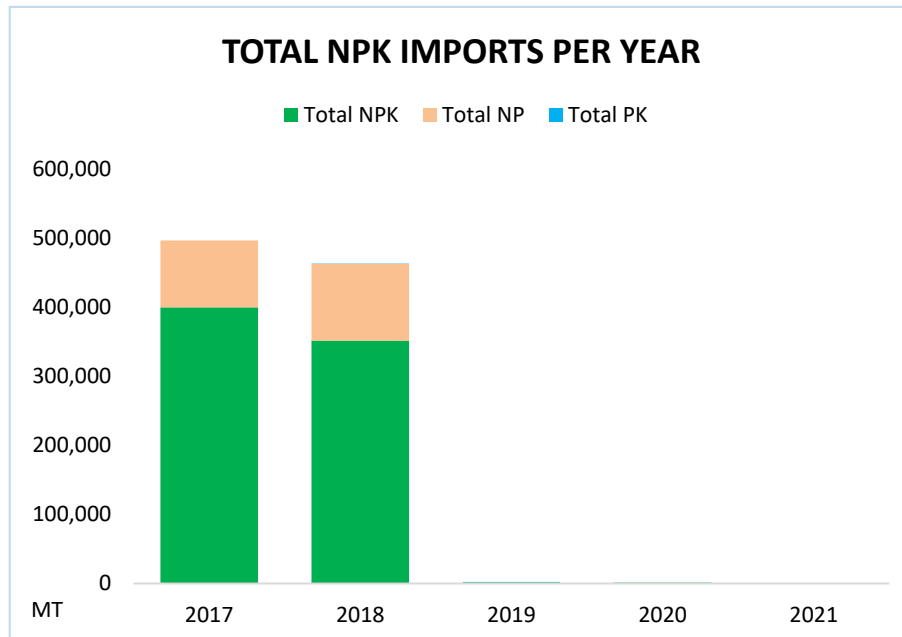
NPK Import Analysis

NIGERIA

| Fertilizer Name | 2017 | 2018 | 2019 | 2020 | 2021 |
|-------------------|----------------|----------------|--------------|--------------|-----------|
| Total NPK | 399,949 | 351,821 | 1,785 | 1,016 | 27 |
| Total NP | 96,984 | 111,500 | - | - | - |
| Total NK | - | - | - | - | - |
| Total PK | - | 421 | 25 | - | - |
| Total (mt) | 496,933 | 463,742 | 1,810 | 1,016 | 27 |

90% of NPK volumes locally blended in 2020

| NPK Fertilizers | 2020 |
|-------------------------|----------------|
| NPK 20-10-10 | 638,146 |
| NPK 15-15-15 | 37,972 |
| NPK 27-13-13 | 12,141 |
| NPK 12-12-17 | 1,465 |
| Others (Special Blends) | 12,845 |
| Total (mt) | 702,569 |



Comments

- Due to the import ban in 2018, NPK importation reduced from 2019 .
- Using imported MOP and DAP together with locally manufactured Urea, more than 700,000mt of NPKs were blended to serve farmers in 2020.
- Blended NPK volumes in 2021 are not yet available.

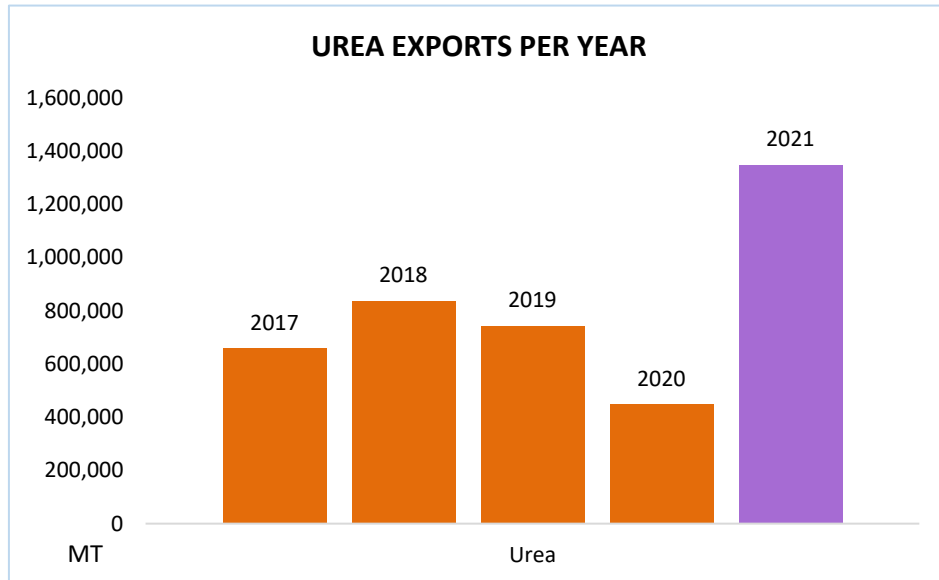


NPK Blend

Fertilizer Exports

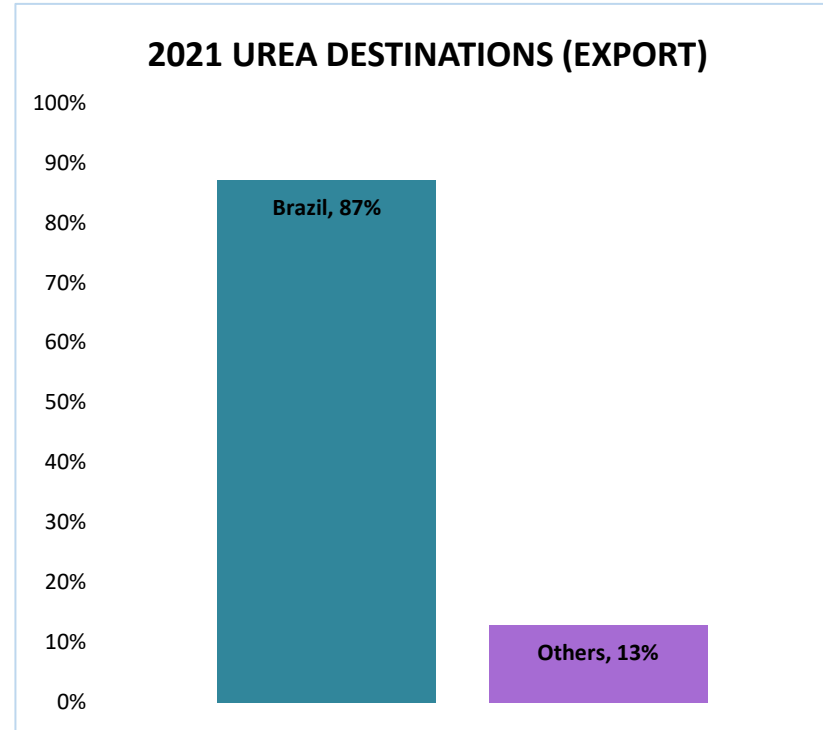
NIGERIA

| HS Code | Fertilizer Name | 2017 | 2018 | 2019 | 2020 | 2021 |
|------------|-----------------|---------|---------|---------|---------|-----------|
| 3102100000 | Urea | 659,603 | 837,436 | 743,707 | 446,850 | 1,348,924 |



Comments

- Increase in production capacities and volumes in 2021 saw urea exports increase by 202% from 2020.
- Brazil continues to be the exports destination for Nigerian Urea as 79% of the Urea was exported there in 2020 and 87% in 2021.



Urea

Why more export outside West Africa

- Most West African markets are prilled urea markets.
- Low demand in West Africa which makes freight rates high.
- There are bottlenecks in road transport.
- Most West Africa markets are tender markets, and it is stated as prilled urea.
- It is more profitable to export to outside Africa.

Fertilizer Apparent Consumption

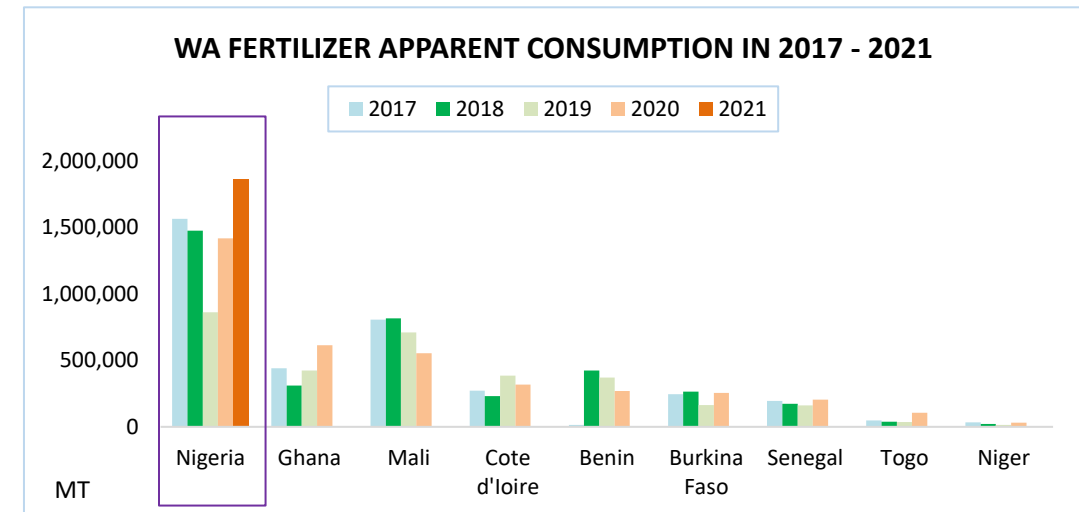
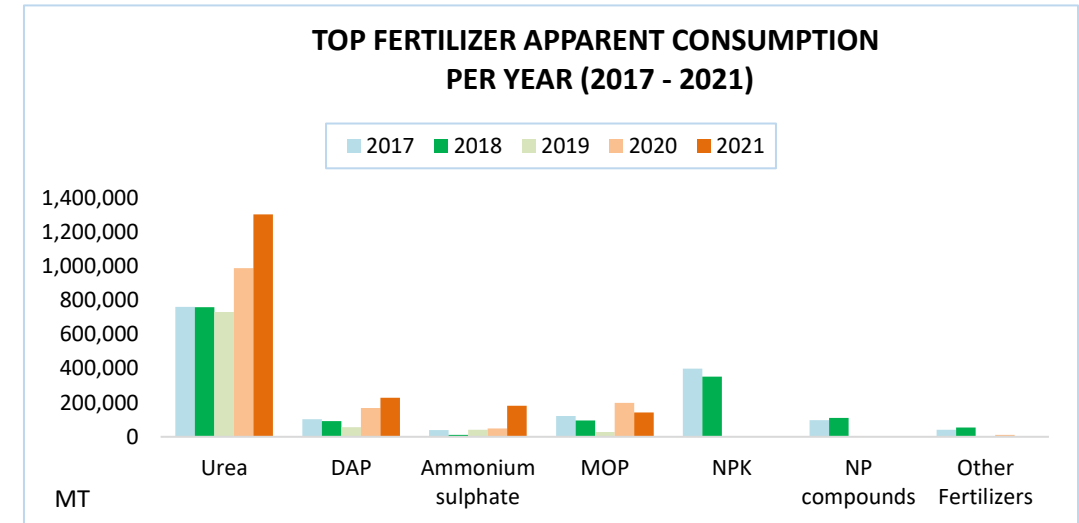
NIGERIA

| HS Code | Fertilizer Name | 2017 | 2018 | 2019 | 2020 | 2021 |
|-------------------|-------------------|------------------|------------------|----------------|------------------|------------------|
| 3102100000 | Urea | 760,734 | 758,499 | 730,151 | 988,343 | 1,303,423 |
| 3105300000 | DAP | 102,770 | 92,956 | 56,800 | 168,181 | 229,588 |
| 3102210000 | Ammonium sulphate | 40,248 | 12,022 | 41,533 | 49,056 | 182,845 |
| 3104200000 | MOP | 121,846 | 95,373 | 29,275 | 199,733 | 142,846 |
| 3105200000 | NPK | 399,949 | 351,821 | 1,785 | 1,016 | 27 |
| 3105510000 | NP compounds | 96,984 | 111,500 | - | - | - |
| | Other Fertilizers | 42,285 | 53,779 | 2,064 | 11,316 | 576 |
| Total (mt) | | 1,564,816 | 1,475,950 | 861,609 | 1,417,646 | 1,859,306 |

Comments

- There was a 31% increase in apparent consumption from 2020 to 2021.
- The apparent consumption in 2021 was 1,859,306mt after a carry over of 199,971mt from 2021 into 2022 was subtracted.
- Restructuring of the PFI, increase in the number of blending plants, increase in production capacities, etc contributed to the increase in apparent consumption.

NB: Apparent consumption = Production + Imports – Exports – Non Fertilizer Use – [Carry over stock](#)



<https://vifaanigeria.org/#/nigeria/use>

Summary of 2021 Fertilizer Statistics

NIGERIA

| New HS Code | Product Name | Production | Total Import | Export | Fertilizer Import | Industrial | Carry over from 2021 | 2021 Apparent Consumption |
|-------------------|-------------------------|------------------|----------------|------------------|-------------------|---------------|----------------------|---------------------------|
| 3102100000 | Urea | 2,701,279 | - | 1,348,924 | - | - | 48,932 | 1,303,423 |
| 3105300000 | DAP | | 292,158 | | 292,158 | | 62,570 | 229,588 |
| 3102210000 | Ammonium sulphate | | 237,869 | | 237,869 | | 55,024 | 182,845 |
| 3104200000 | MOP | | 182,921 | | 176,291 | 6,630 | 33,445 | 142,846 |
| 3101000000 | Organic fertilizer | | 358 | | 358 | | | 358 |
| 3105400000 | MAP | | 210 | | 210 | | | 210 |
| 3105200000 | NPK | | 27 | | 27 | | | 27 |
| 3104900000 | Other potash fertilizer | | 11 | | 9 | 3 | | 9 |
| 2510100000 | Phosphate rock | | 1,474 | | | 1,474 | | - |
| 2814200000 | Ammonium hydroxide | | 4,422 | | | 4,422 | | - |
| 3102300000 | Ammonium nitrate | | 365 | | | 365 | | - |
| 3102500000 | Sodium nitrate | | 507 | | | 507 | | - |
| Total (mt) | | 2,701,279 | 720,322 | 1,348,924 | 706,922 | 13,401 | 199,971 | 1,859,306 |

Comments

In 2021;

- Urea production was 2,701,279mt, an 88% increase from 2020
- There was increase in production capacity.
- Total fertilizer import was 706,922mt, a 65% increase from 2020 import.
- 2019 import of 131,458mt is the lowest since 2010.
- Urea export from Nigeria increased by 202% from 2020.
- Fertilizer apparent consumption increased by 31% from 2020.
- Using imported MOP and DAP together with locally manufactured Urea, more than 700,000mt of NPKs were blended to serve farmers in 2020.
- Blended NPK volumes in 2021 are not yet available.

- Urea production data from the FTWG does not reflect on the improvement of granular Urea use in West Africa.
- There is the need to recognize emerging acceptance of granular Urea in West Africa and the need of granular Urea manufacturers to intensify their sales effort in West Africa.
- The Nigeria fertilizer market has changed from imported NPK to domestic NPK blends. The data on carry over is currently focused on raw materials.
- There is the need to collect NPK (volumes blended and carry over) data to build a better understanding of the NPK apparent consumption.
- There is the need to track limestone and other fillers data as part of FTWG. This is because locally blended NPKs contain about 26% of fillers.

Participants of 2022 FTWG

NIGERIA

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Participants of 2022 FTWG

NIGERIA



The **AfricaFertilizer.org** 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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Links

[Nigeria 2021 FTWG validation workshop report](#)

[Nigeria 2021 Fertilizer Factsheet](#)

[VIFAA Nigeria Dashboard](#)