



AfricaFertilizer.org



Fertilizer Statistics Overview

# TANZANIA

2011 - 2014

2015 Edition





## Outline

1. Production
2. Imports
3. Exports
4. Origins and Destinations
5. Agric. and non Agric. use
6. Consumption
7. NPK analysis
8. Volumes and Values
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## Background information

- An overview of fertilizer statistics in Tanzania from 2011 – 2014.
- More emphasis is given to the year 2014 and each analysis is based on the products with higher quantities.
- Data obtained from Tanzania National Bureau of Statistics (NBS) and Validated by Fertilizer Technical Working Group – Tanzania (FTWG-TAN)
- 2014 data validated on September 15<sup>th</sup> – 17<sup>th</sup>, 2015



# Fertilizer production

| HS Code      | Product        | 2011          | 2012          | 2013          | 2014          |
|--------------|----------------|---------------|---------------|---------------|---------------|
| 2510000000   | Phosphate Rock | 4,761         | 1,560         | -             | -             |
| 3105510000   | NPS            | 5,815         | 36,916        | 35,000        | 15,000        |
| <b>Total</b> |                | <b>10,576</b> | <b>38,476</b> | <b>35,000</b> | <b>15,000</b> |

Source: Minjingu Mines & Fertilizers Co. Ltd.

## Comments:

- Minjingu Mines and Fertilizer Limited produces Rock Phosphate branded as Minjingu Rock Phosphate (MRP) and NPS plus trace elements branded as Minjingu MAZAO in Tanzania



# Fertilizer imports

| HS Code                                | Fertilizer Name    | 2011           | 2012           | 2013           | 2014           |
|--|--------------------|----------------|----------------|----------------|----------------|
| 3102100000                             | Urea               | 72,123         | 78,976         | 155,295        | 104,275        |
| 3105200000                             | NPK's              | 38,322         | 64,260         | 74,366         | 66,051         |
| 3105300000                             | DAP                | 84,608         | 19,460         | 54,390         | 30,616         |
| 3102210000                             | Ammonium sulphate  | 9,998          | 21,910         | 33,782         | 27,342         |
| 3102400000                             | CAN                | 29,433         | 39,342         | 39,399         | 21,304         |
|  | Others fertilizers | 56,320         | 14,880         | 16,425         | 29,622         |
| <b>Total fertilizer for agric (mt)</b> |                    | <b>290,803</b> | <b>238,828</b> | <b>373,658</b> | <b>279,211</b> |

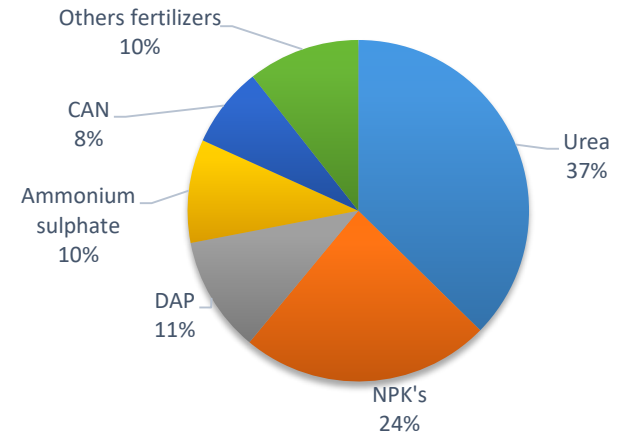
Source: FTWG-TAN

## Comments:

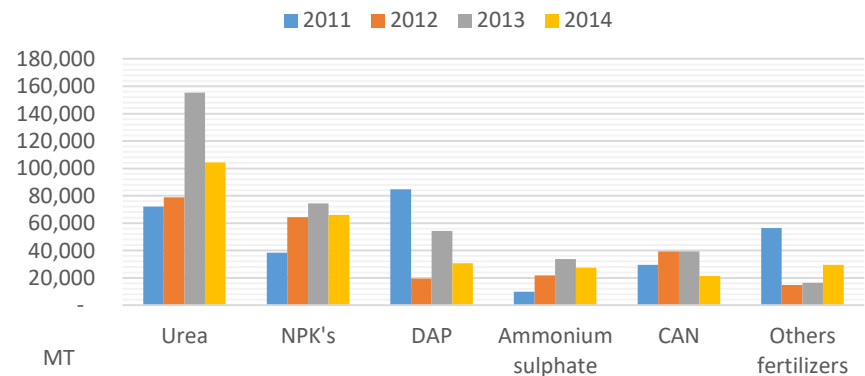
- Imports of Urea, NPK's and DAP accounted for 72% of total fertilizers officially imported to Tanzania in 2014.
- Comparing the imports volumes for the past four years shows that the top 5 fertilizers have been consistent throughout.
- Also, total fertilizer imports reduced (by 25%) in 2014 as compared to 2013.

Other fertilizers includes products like; Calcium nitrate, MAP, SOP, SSP, etc

## TOP 5 IMPORTED FERTILIZERS 2014



## TOP FERTILIZER IMPORTS PER YEAR



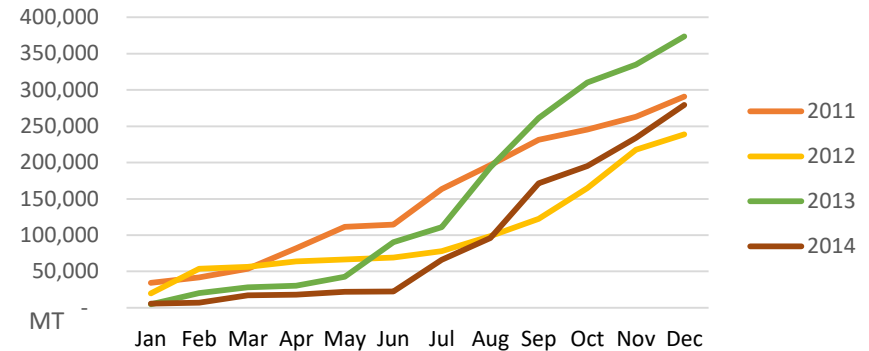


# Fertilizer monthly imports

| Quarter      | 2011           | 2012           | 2013           | 2014           |
|--------------|----------------|----------------|----------------|----------------|
| Q1           | 53,700         | 56,552         | 28,098         | 17,238         |
| Q2           | 60,655         | 12,741         | 62,183         | 5,028          |
| Q3           | 116,795        | 52,978         | 171,220        | 149,152        |
| Q4           | 59,653         | 116,558        | 112,156        | 107,793        |
| <b>Total</b> | <b>290,803</b> | <b>238,828</b> | <b>373,658</b> | <b>279,211</b> |

Source: FTWG-TAN

TANZANIA FERTILIZER MONTHLY CUMULATIVE IMPORTS (2011-2014)



## Comments:

- Most fertilizers imported to Tanzania reach the port between the third and fourth quarter.
- In 2014, fertilizers imports was at its peak in September with 75,593mt (about 27% of all 2014 imports).

| SEASON                        | CROPS                       | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-------------------------------|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Major Season<br>(Long Rains)  | Maize                       |     |     |     |     |     |     |     |     |     |     |     |     |
|                               | Fertilizer peak demand      |     |     |     |     |     |     |     |     |     |     |     |     |
|                               | Sorghum                     |     |     |     |     |     |     |     |     |     |     |     |     |
|                               | Fertilizer peak demand      |     |     |     |     |     |     |     |     |     |     |     |     |
|                               | Millet                      |     |     |     |     |     |     |     |     |     |     |     |     |
|                               | Fertilizer peak demand      |     |     |     |     |     |     |     |     |     |     |     |     |
|                               | Rice                        |     |     |     |     |     |     |     |     |     |     |     |     |
|                               | Fertilizer peak demand      |     |     |     |     |     |     |     |     |     |     |     |     |
|                               | Wheat                       |     |     |     |     |     |     |     |     |     |     |     |     |
|                               | Fertilizer peak demand      |     |     |     |     |     |     |     |     |     |     |     |     |
| Minor Season<br>(Short Rains) | Bean                        |     |     |     |     |     |     |     |     |     |     |     |     |
|                               | Fertilizer peak demand      |     |     |     |     |     |     |     |     |     |     |     |     |
|                               | Maize, Millet, Sorghum, Bea |     |     |     |     |     |     |     |     |     |     |     |     |
|                               | Fertilizer peak demand      |     |     |     |     |     |     |     |     |     |     |     |     |
| Key:                          | Fertilizer peak demand      |     |     |     |     |     |     |     |     |     |     |     |     |
|                               | Sowing                      |     |     |     |     |     |     |     |     |     |     |     |     |
|                               | growing                     |     |     |     |     |     |     |     |     |     |     |     |     |
|                               | harvesting                  |     |     |     |     |     |     |     |     |     |     |     |     |

FAO/GIEWS, FEWSNET



# Fertilizer exports

| HS Code                                 | Fertilizer Name   | 2011         | 2012          | 2013          | 2014         |
|---|-------------------|--------------|---------------|---------------|--------------|
| 3102100000                              | Urea              | 212          | 172           | 3,076         | 5,222        |
| 3105200000                              | NPK's             | 376          | 10,116        | 10,388        | 113          |
| 2510000000                              | Phosphate Rock    | 2,241        | 1,034         | 1,553         | 207          |
|   | Other fertilizers | 1,739        | 900           | 15,486        | 301          |
| <b>Total fertilizers for Agric (mt)</b> |                   | <b>4,568</b> | <b>12,222</b> | <b>30,503</b> | <b>5,843</b> |

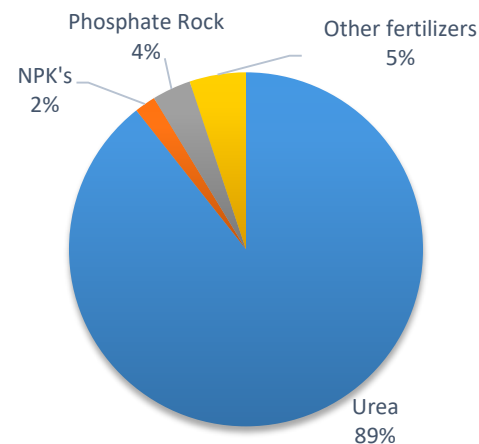
Source: FTWG-TAN

## Comments:

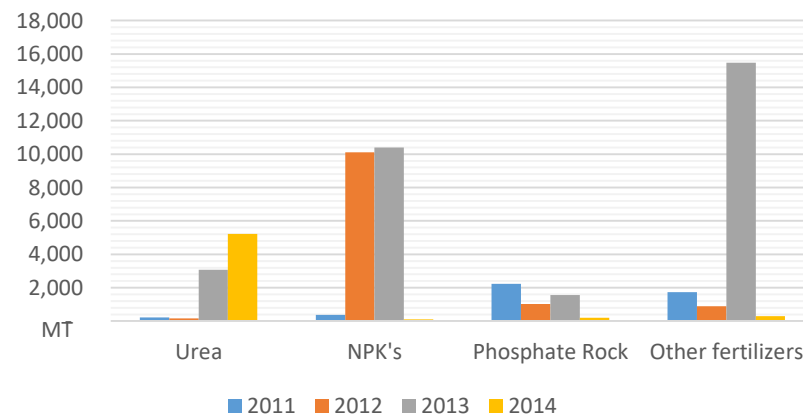
- Total Fertilizer exports decreased in 2014 as compared to the previous year. This is a results of the reduction of total fertilizer production in the country.
- Besides Urea, all other fertilizers recorded low exports in 2014. (NPK recording the highest reduction)

Other fertilizers includes products like; NP, SOP, etc

## TOP 3 EXPORTED FERTILIZERS 2014



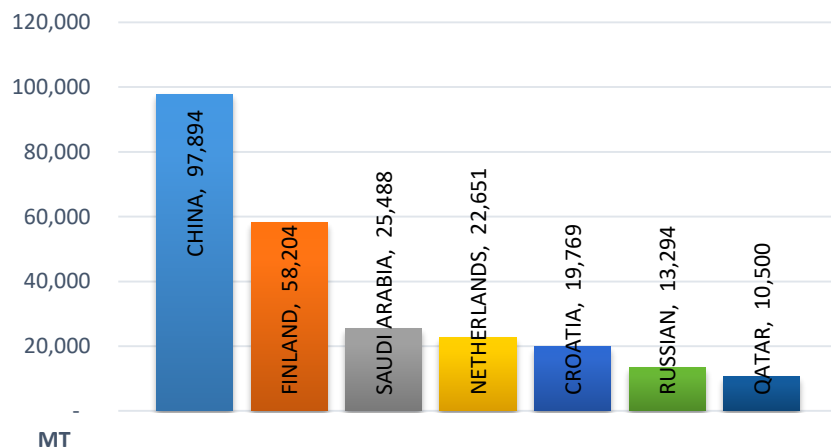
## TOP FERTILIZER EXPORTS PER YEAR



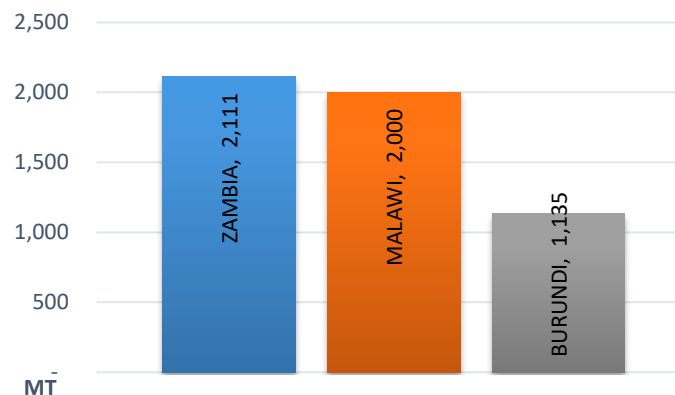


# Fertilizer origins and destinations 2014

## COUNTRY OF ORIGINS (IMPORTS)



## COUNTRY OF DESTINATIONS (EXPORTS)



## 2014 product per origin

| Countries of Origins | China | Finland | Saudi Arabia | Netherlands | Croatia | Others |
|----------------------|-------|---------|--------------|-------------|---------|--------|
| Urea                 | 69%   | -       | 9%           | 11%         | -       | 11%    |
| NPK's                | 3%    | 88%     | -            | 0%          | -       | 9%     |
| DAP                  | 43%   | -       | 54%          | -           | -       | 3%     |
| Other fertilizers    | 13%   | 0%      | -            | 14%         | 25%     | 47%    |

## 2014 product per destination

| Countries of Destinations | Zambia | Malawi | Burundi | Others |
|---------------------------|--------|--------|---------|--------|
| Urea                      | 40%    | 38%    | 21%     | 1%     |
| NPK's                     | 1%     | -      | -       | 99%    |
| Other fertilizers         | 4%     | -      | 6%      | 90%    |

Source: FTWG-TAN

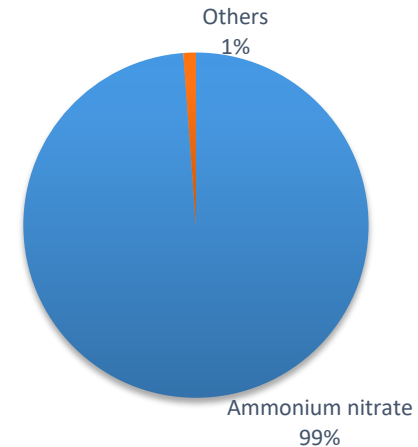


# Agricultural and non agricultural uses

## 2014 NON FERTILIZER USE

| Usage            | 2011        |        | 2012        |        | 2013        |        | 2014        |        |
|------------------|-------------|--------|-------------|--------|-------------|--------|-------------|--------|
|                  | Volume (MT) | %      | Volume (MT) | %      | Volume (MT) | %      | Volume (MT) | %      |
| Agriculture      | 290,803     | 91.5%  | 238,828     | 89.2%  | 373,658     | 96.1%  | 279,211     | 90.6%  |
| Industrial/Mines | 27,086      | 8.5%   | 28,801      | 10.8%  | 15,273      | 3.9%   | 28,909      | 9.4%   |
| Total (MT)       | 317,889     | 100.0% | 267,630     | 100.0% | 388,931     | 100.0% | 308,120     | 100.0% |

Source: FTWG-TAN



### Comments:

- Some fertilizer products can be used for both agricultural and industrial purpose depending on the importer.
- In Tanzania, ammonium nitrate is mostly imported and used by the mining companies.

Others includes Urea, Sodium nitrate, etc



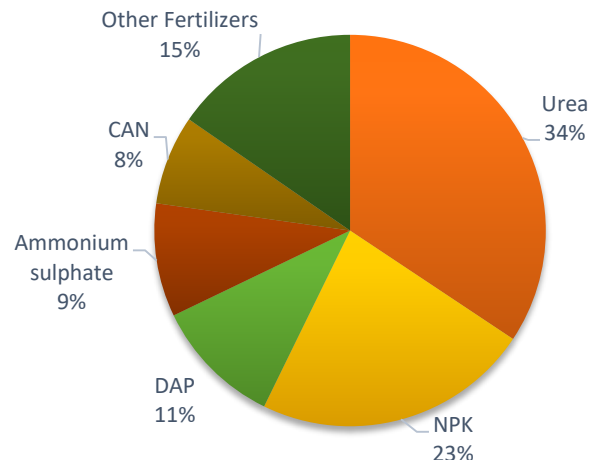


# Fertilizer apparent consumption

| HS Code           | Fertilizer Name   | 2011           | 2012           | 2013           | 2014           |
|-------------------|-------------------|----------------|----------------|----------------|----------------|
| 3102100000        | Urea              | 71,911         | 78,804         | 152,198        | 98,953         |
| 3105200000        | NPK               | 83,064         | 57,804         | 69,508         | 65,938         |
| 3105300000        | DAP               | 84,749         | 19,359         | 44,634         | 30,616         |
| 3102210000        | Ammonium sulphate | 9,998          | 21,880         | 33,323         | 26,982         |
| 3102400000        | CAN               | 28,431         | 39,342         | 39,129         | 21,289         |
|                   | Other Fertilizers | 17,895         | 46,050         | 65,065         | 44,321         |
| <b>Total (mt)</b> |                   | <b>296,047</b> | <b>263,240</b> | <b>403,857</b> | <b>288,100</b> |

Source: FTWG-TAN

## 2014 APPARENT CONSUMPTION



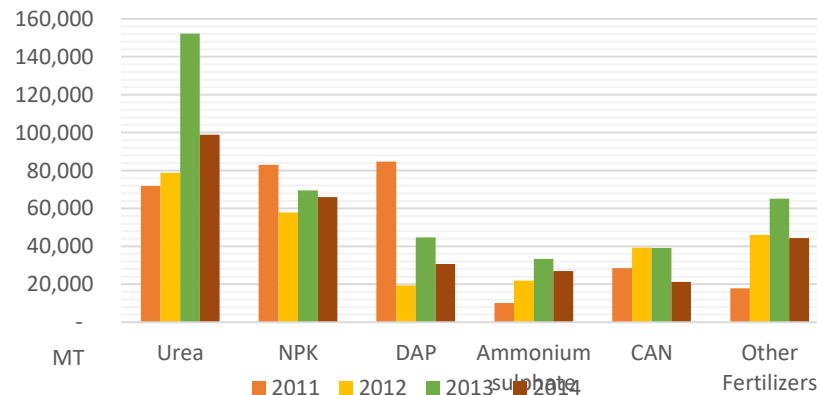
### Comments:

- Urea and NPK's remains the most apparent consumed fertilizers in Tanzania. (accounts for more than 55% in 2014)
- In 2014 total apparent consumption of fertilizers in nutrients were 120 with 79 N, 31 P<sub>2</sub>O<sub>5</sub> and 11 K<sub>2</sub>O.

NB: Apparent consumption = Production + Imports – Exports – non fertilizer use

Nutrient aggregates was derived using AFO conversion methodology

## TOP FERTILIZER APPARENT CONSUMPTION PER YEAR



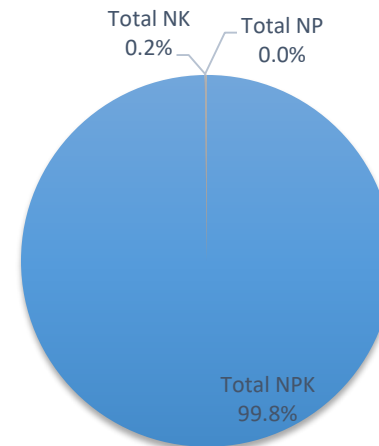


# NPK analysis

| HS Code           | Fertilizer Name     | 2011          | 2012          | 2013          | 2014          |
|-------------------|---------------------|---------------|---------------|---------------|---------------|
| 3105200000        | Total NPK           | 38,322        | 64,260        | 74,366        | 66,051        |
| 3105510000        | Total NP            | -             | 0             | 21            | 8             |
| 3105700000        | Total NK            | -             | -             | 24            | -             |
| 3105600000        | Total PK            | 112           | -             | -             | 115           |
| 3105900000        | NPK (Unknown Grade) | 45,207        | 4,436         | 7,161         | -             |
| <b>Total (mt)</b> |                     | <b>83,641</b> | <b>68,695</b> | <b>81,572</b> | <b>66,175</b> |

Source: FTWG-TAN

## 2014 NPK COMPLEX FERTILIZERS

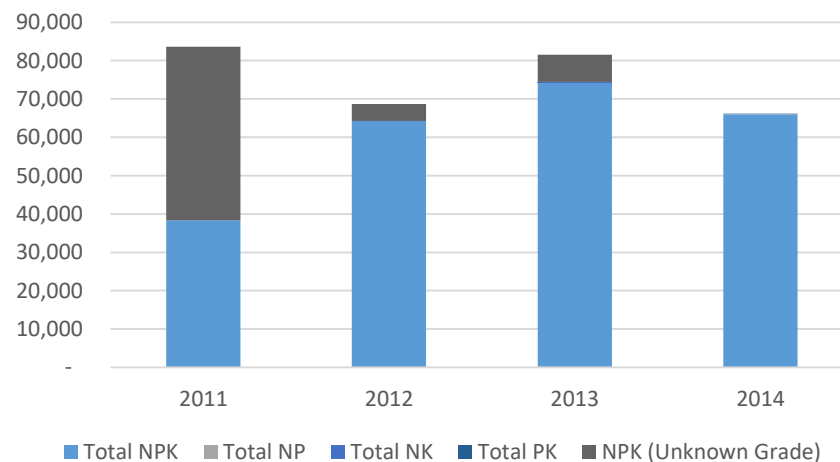


### Comments:

- NPK's with known grades accounted for 99.8% of all NPK complex fertilizers imported to Tanzania in 2014
- Some NPK formulations in Tanzania includes; NPK 17 17 17 used on Tea and Barley, NPK 20 10 10 used on Tobacco, Maize and Sorghum, NP 23 21 0 used on Maize, Paddy, Sorghum and Millets, NPK 25 5 5, etc

• NPK (Unknown Grade) refers to NPK fertilizers whose grades are not known.

## NPK COMPLEX FERTILIZERS PER YEAR





# Volumes and Values 2014

| HS Code    | Fertilizer Name   | Volumes (mt) | Values (USD) | USD/Ton |
|------------|-------------------|--------------|--------------|---------|
| 3105300000 | Urea              | 104,275      | 38,974,441   | 374     |
| 3102400000 | NPK               | 66,051       | 33,181,252   | 502     |
| 3105203110 | DAP               | 30,616       | 19,280,353   | 630     |
| 3105513704 | Ammonium sulphate | 27,342       | 7,774,908    | 284     |
| 3102100000 | CAN               | 21,304       | 7,750,003    | 364     |
| 3105202522 | Calcium Nitrate   | 19,333       | 6,821,224    | 353     |

Exchange rate source: (oanda.com Time Period: 1/1/2014 to 31/12/2014) Tanzania=1,630.01 TZS/US\$

## Comments:

- The table shows volumes and values of selected fertilizers officially imported in 2014

❖ USD/Ton = FOB values ÷ volumes imported



# Summary of 2014 fertilizer statistics for Tanzania

| HS 10 digits | Product Name        | Production    | Imports        | Exports       | Domestic Availability | Non Fertilizer use | Apparent Consumption |
|--------------|---------------------|---------------|----------------|---------------|-----------------------|--------------------|----------------------|
| 2510000000   | Phosphate Rock      | -             |                | 207           | 0                     | -                  | 0                    |
| 3101000000   | Organic Fertilizers | -             | 1,133          | 1             | 1,132                 | -                  | 1,132                |
| 3102100000   | Urea                | -             | 104,444        | 5,322         | 99,122                | 169                | 98,953               |
| 3102210000   | Ammonium sulphate   | -             | 27,448         | 360           | 27,087                | 105                | 26,982               |
| 3102300000   | Ammonium nitrate    | -             | 28,570         | 4,690         | 23,880                | 28,570             | 0                    |
| 3102400000   | CAN                 | -             | 21,304         | 15            | 21,289                | 0                  | 21,289               |
| 3102500000   | Sodium Nitrate      | -             | 5              | 12            | 0                     | 5                  | 0                    |
| 3102600000   | Calcium Nitrate     | -             | 19,333         |               | 19,333                | -                  | 19,333               |
| 3102800000   | UAN                 | -             | 0              | 186           | 0                     | 0                  | 0                    |
| 3103100000   | SSP                 | -             | 1,548          |               | 1,548                 | -                  | 1,548                |
| 3104200000   | MOP                 | -             | 375            |               | 375                   | 0                  | 375                  |
| 3104300000   | SOP                 | -             | 1,968          | 30            | 1,938                 | 0                  | 1,938                |
| 3105200000   | NPK                 | -             | 66,110         | 113           | 65,997                | 59                 | 65,938               |
| 3105300000   | DAP                 | -             | 30,616         |               | 30,616                | 0                  | 30,616               |
| 3105400000   | MAP                 | -             | 5,143          |               | 5,143                 | -                  | 5,143                |
| 3105510000   | NP                  | 15,000        | 8              | 270           | 14,738                | 0                  | 14,738               |
| 3102900000   | Other N             | -             |                | 21            | 0                     | -                  | 0                    |
| 3105600000   | PK                  | -             | 115            |               | 115                   | -                  | 115                  |
| <b>Total</b> |                     | <b>15,000</b> | <b>308,120</b> | <b>11,228</b> | <b>311,892</b>        | <b>28,909</b>      | <b>288,100</b>       |



# About AfricaFertilizer.Org

## About AFO

AfricaFertilizer.org is a global initiative facilitating the exchange of information on soil fertility, fertilizers, and good agricultural practices in Africa.

AfricaFertilizer.org is led by IFDC, in partnership with the International Fertilizer Industry Association (IFA), the African Fertilizer and Agribusiness Partnership (AFAP), the Food and Agriculture Organization of the United Nations (FAO) through its CountrySTAT program, and the African Union Commission (AUC) and its NEPAD Planning and Coordination Agency

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