



AfricaFertilizer.org

TECHNICAL REPORT

Fertilizer Technical Working Group 2021 Fertilizer Statistics Validation Workshop Tanzania & Rwanda



June 29-30, 2022, Dar Es Salaam, Tanzania

AfricaFertilizer.org is a joint initiative led by IFDC, in partnership with, IFA, Development Gateway, WAFA and the Africa Union to facilitate exchange of information about soil fertility, fertilizers and good agricultural practices in Africa



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List of Acronyms

Abbreviation Definition

AFAP	African Agribusiness Partnership
AFO	AfricaFertilizer.org
BPS	Bulk Procurement System
COVID-19	Coronavirus Disease 2019
DG	Development Gateway
DRC	Democratic Republic of the Congo
ETC/ETG	Export Trading Group
FAO	Food and Agriculture Organization
FTWG	Fertilizer Technical Working Groups
FUBC	Fertilizer Use by Crop
GN	Government Notice
IFA	International Fertilizer Association
IFDC	International Fertilizer Development Center
MMFL	Minjingu Mines & Fertilizer Limited
NBS	National Bureau of Statistics
PIO	Public International Organization
TFRA	Tanzania Fertilizer Regulatory Authority
TRA	Tanzania Revenue Authority
USAID	US Agency for International Development
VIFAA	Visualizing Insights on Fertilizer for African Agriculture
WAFA	West Africa Fertilizer Association

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1.0 Background

The International Fertilizer Development Centre (IFDC), through the AfricaFertilizer.org (AFO) initiative, has been working with the CountrySTAT program of the Food and Agriculture Organization (FAO) of the United Nations, over the past nine years, to produce and disseminate reliable and up-to-date official statistics on fertilizer production, imports, exports, and consumption in countries across Africa.

Fertilizer Technical Working Groups (FTWG) were established in 2012 in 11 sub-Saharan African countries, including Tanzania. These working groups have been responsible for reviewing country level data and presenting statistics results tables for validation by National Technical Working Groups before the publication of the data.

AFO, through its partnership with CountrySTAT, aims to improve the quality and availability of fertilizer data in terms of production, trade, and consumption to enable decision makers to have and use reliable fertilizer data for formulation and monitoring of agricultural development policies, strategies on food security, promotion of fertilizer trade within East and Southern Africa and beyond, as well as update industry actors on new strategies developed in the year under review.

This year's workshop was held on June 29- 30 in Dar es Salaam, Tanzania. On the 29th, participants were able to validate 2021 Tanzania and Rwanda fertilizer trade data and reviewed the validated data on the 30th.

1.1 Objectives and Expected Outcomes of the Workshop

1.1.1 Objectives of the Workshop

- Validate national fertilizer statistics for the year 2021
- Update 2010 – 2021 series of statistics.
- Update participants on country fertilizer programs and initiatives.

1.1.2 Expected Outcomes of the Workshop

- Tanzania Fertilizer statistics for 2021 validated.
- Rwanda Fertilizer Statistics for up to 2021 validated.
- Statistical output tables for Tanzania and Rwanda on fertilizer imports, exports, and apparent consumption for the year 2021 prepared.
- Participants updated on country fertilizer programs and initiatives.

1.2 Methodology

The methodology of the workshop encompassed presentations, questions/answers, and discussions at plenary sessions.

2.0 First Day (29th June 2022)

Agenda

The morning session of the first day was used to present overview of AFO activities, provide an update on CountrySTAT Tanzania, present fertilizer statistics overview for Tanzania 2019 &

2020 and Rwanda, review 2021 datasets available for Tanzania and Rwanda and commence group work data validation of 2021 datasets. In the afternoon, data validation activities continued.

2.1 Participants

The first day of the workshop was attended by 16 participants from Ghana, Kenya, Rwanda and Tanzania.

Table 1: Composition of Participants

Public	Private	IFDC	Male	Female	Total
7	6	4	11	6	17

2.2 Introduction

The workshop was officially opened by a welcome address from Sebastian Nduva, AFO Program Lead. He welcomed and introduced participants.

Viola Kenduiywo, Fertilizer Market Analyst with IFDC, then gave an overview of the program. She stated that the purpose of the workshop was to conduct data validation for the year 2021.

2.3. Update on Tanzania CountrySTAT

Beatrice rwegoshora from National Bureau of Statistics gave an update on the Tanzania CountrySTAT.

Highlights

- Tanzania CountrySTAT was last updated in 2017. There has been no data to update the system since then.
- She stated that CountrySTAT is still liaising with FAO to gain access to update the system, but FAO has not yet responded to the request.
- Some indicators were updated in 2019 and thereafter there was no access.
- Funding from FAO has stopped.

2.4 Overview of AFO Activities

Sebastian Nduva took the participants through the AFO Activities.

Download Presentation:
AfricaFertilizer.org
By Sebastian Nduva

Highlights

AFO seeks to be the leading provider of fertilizer data and information for Africa to support market transparency, improve decision-making, and deliver a more prosperous agriculture sector.

AFO is hosted by IFDC and works with key public and private fertilizer sector players, including national FTWGs, fertilizer importers, producers, retailers, agriculture/fertilizer experts and consultants.

The Core areas of competence of AFO are Price, Statistics, Markets, and Products (Market Situation Statement). AFO's other key partners include the International Fertilizer Association (IFA) which is a donor for fertilizer statistics; Development Gateway (DG), also a donor and a partner for fertilizer data visualization and website development; Argus Media, a donor and a partner for fertilizer statistics and market information on a daily and monthly basis. The West Africa Fertilizer Association (WAFA) is a regional partner for fertilizer data gathering and validation and provides data on local fertilizer product prices, international prices, and regional market.

AFO conducted 2021 FTWG workshops for Burkina Faso, Cote d'Ivoire, Ghana, Mali, Nigeria, and Senegal between February and April and in East Africa 1 between May and June.

FertiNews, AFO's electronic newsletter about the fertilizer sector in Africa, was produced monthly throughout 2021. The advanced copy of the 2021 Fertilizer Plant Register was also produced.

AFO and DG are developing the Visualizing Insights on Fertilizer for African Agriculture (VIFAA) dashboard to support visualization of fertilizer statistics/data in Ghana, Nigeria, and Kenya. AFO started the publication of the Africa Fertilizer Watch in July 2020, in collaboration with the African Union, and with technical and financial support of partners, including the Bill & Melinda Gates Foundation, DG, IFA, WAFA, the African Agribusiness Partnership (AFAP), USAID, and Feed the Future.

For 2022, AFO will continue to provide fertilizer market information, overhaul its website, and conduct FTWG data validation workshops for six West African countries and three East African countries as well as extending the VIFAA dashboard to other African countries.

Comments

- Beatrice Rwegoshora from National Bureau of Statistics mentioned that AFO has a lot of useful data that could inform on policies and decisions. Only that not many people know about the websites.

Figure 1: Participants during the workshop



- 2.5 Guide on Navigating the AFO Website/VIFAA Dashboard

Fred Gyasi gave an overall guide on navigating the AFO website. He demonstrated how to look for information and what information was available on the website. He navigated from statistics on fertilizers, prices, fertilizer plants directories, as well as country pages with all the information on a country.

He also took participants through the VIFAA Kenya dashboard which is used to visualize information on fertilizer on various indicators such as product availability, fertilizer policy, fertilizer price and fertilizer use.

Comments

Tanzania

- On Africa Fertilizer Watch, Tanzania food allocations is green because 90% of imported fertilizers goes to food crops.
- 10% of average annual imports has been done between January and May 2022. Beatrice Rwegoshora from NBS suggested to have the AFO website link on their NBS portal for popularity in Tanzania.
- DTRC Trading Company is a new company that will begin fertilizer importations in 2023.

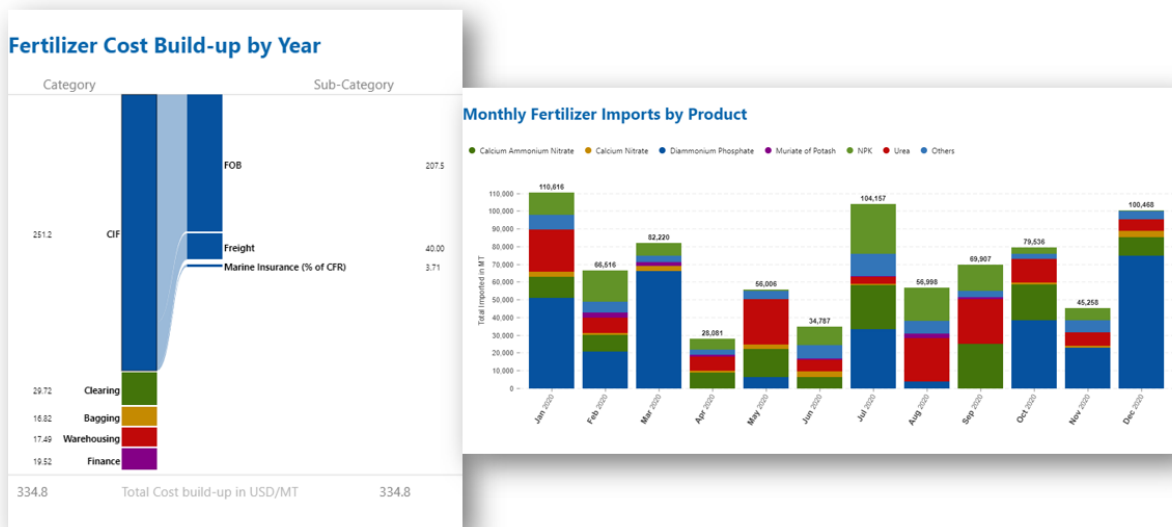


Figure 2: A Snapshot of VIFAA Kenya Dashboard

Visit the Kenya dashboard: <https://vifaakenya.org/#/kenya>

Download Presentation:
2014 - 2018 Fertilizer Trade
Statistics Overview
By Viola Kenduiywo

2.5 Overview of Tanzania and Rwanda fertilizer trade statistics

Viola Kenduiywo, Fertilizer Market Analyst under the AFO program, presented the Tanzania fertilizer statistics overview for the period 2014 - 2020 with focus on 2019/20 data while Fred Gyasi presented the overview of Rwanda.

Highlights

- Blending companies import Urea, DAP and MOP to blend different formulations of NPK for farmers in Tanzania and in the region.
- Blenders and other major fertilizer importing companies also import finished NPK with various grades to sell directly to farmers.
- Majority of fertilizer exports and re-exports from Tanzania were mostly to Rwanda and Burundi in both 2019 and 2020. Other countries include Kenya, Zambia, Democratic Republic of the Congo (DRC), and Uganda.
- There was a 68% increase from 2018 to 2019 and a 14% increase from 2019 to 2020 in fertilizers (re)exported from Tanzania.
- Apparent consumption of fertilizers in Tanzania decreased from 437,390mt in 2018 to 259,750mt in 2019. Just as imports, there was a huge increase in 2020 at 526,765mt.

-
- Several reasons contributed to the decrease in apparent consumption in 2019. One of them was that, there were lots of carry-over stocks from 2018 into 2019.
- Other reasons for the huge increase in 2020 were that, about 141,980mt of fertilizers were imported in the last quarter and most of them were carried over to 2021;
-
- Removal of export ban for agricultural products such as maize, which means farmers could get good price in the market and afford to buy fertilizer and;
-
- The awareness of fertilizer use to farmers (increase of extension service, most companies promoted their products to farmers).

[Overview of Rwanda fertilizer statistics](#) were also presented. Since the last validation for Rwanda was on 2017 datasets, the overview covered 2013 – 2017.

2.6 Review of 2021 datasets available for Tanzania and Rwanda

Fred Gyasi took participants through details of the available country data and the expected output of the group work session.

Download Presentation:
Methodology and processes
of data validation
By Fred Gyasi

Highlights

There were four data sets for Tanzania: 2021 data from Tanzania Fertilizer Regulatory Authority (TFRA) and Tanzania Revenue Authority (TRA). There was a discussion on which data to validate.. In 2019, only TFRA data was validated since it was already cleaned to capture only agricultural use data. Imports data from both TRA and TFRA looked similar but there was a huge difference between the exports data. It was concluded that TFRA data be used for the validation of both imports and exports.

2.7 Processing of 2021 Imports/Exports Datasets

Fred Gyasi led participants in the validation process of the 2021 imports and exports datasets.

3.0 Second Day (30th June 2022)

On the second day of the workshop, we were able to review the validated datasets and get comments from participants on the same. There was also presentation on country fertilizer initiatives from both private and public sectors and learnings and interventions during the crisis.

3.1 Review of Processed Data

Fred Gyasi led participants to review the validated data.

Highlights

Tanzania

- Tanzania fertilizer imports decreased by 40% from 662,868mt in 2020 to 395,033mt in 2021. Urea, DAP and NPK has been the most imported fertilizers to Tanzania over the years.
- In 2021, there were more imports of CAN than DAP which used to be the second most imported fertilizer after Urea. One major factor that contributed to the 40% decrease in 2021 was the high prices of fertilizers in the world market which affected both supply and demand. On the average, there was more than 100% increase in price of a 50kg bag of Urea/DAP from 70,000TZS in 2020 to 145,000TZS in 2021.

In 2021, fertilizers were imported mostly in July, August and September, just before the major planting season. The highest import was in July (71,062mt).**Rwanda**

- Average fertilizer market size for Rwanda is about 80,000-100,000 MT.
- There was 11% drop in importations from 96,000MT in 2020 to 85,000MT in 2021.
- The main planting season starts in September.
- There are 4 main importers in Rwanda.
- 1KG bag is popular in Rwanda because most farmers are smallholder farmers with small land sizes.

3.2 Update on Country Fertilizer Programs and Initiatives

3.2.1 Minjingu Mines Presentation

Franks Kamhabwa gave a presentation about Minjingu mines, Tanzania.

Highlights

- Minjingu Mines and Fertilizers Limited produces Hyper Phosphate which is Organic Rock Phosphates mixed with other micronutrients, granulates and blends NPK and NP compounds in Arusha.
- There are also lime supplement production by ABM Equipment Services Limited and APP Lime Products Company Limited in Tanga.
- Guavay Company Limited also produces organic compost in the country.
- There was a 50% increase in fertilizer production from 29,554mt in 2020 to 44392mt in 2021.
- About 60% of the fertilizer produced were exported to Burundi and Kenya. The organic hyper phosphate is used on coffee in Kenya.

3.2.2 Bulk Procurement System

- The TRFA was established through the fertilizer Act and mandated by the fertilizer bulk procurement regulation GN 49/2017 to coordinate importation of fertilizer through the BPS. The fertilizer (bulk procurement) regulation requires the prescribed types of fertilizer to be under the bulk procurement system. Tanzania Fertilizer Regulatory pre-qualifies fertilizer dealers' importation of CAN, SA, NPK DAP and Urea fertilizer in Tanzania under the BPS.
- There was a 23% increase in imports in 2017 to 2018. This can be attributed to increased importation of Urea and DAP under the BPS.
- There was an increase in fertilizer imports from 2019 to 2020- The increase in imports in 2020 was because the government allowed side importation of fertilizer by private companies aside from BPS from July 2020.
- There are plans to reinstate the BPS program after its suspension in July 2020. There will also be another subsidy program running parallel to the BPS.
- The BPS program will be digitalized this year.

4.0 Results of 2021 fertilizer statistics review and validation

4.1 Fertilizer Production

Minjingu Mines and Fertilizers Limited produces Hyper Phosphate which is Organic Rock Phosphates mixed with other micronutrients, granulates and blends NPK and NP compounds in Arusha. There are also lime supplement production by ABM Equipment Services Limited and APP Lime Products Company Limited in Tanga.

ETC Cargo Limited (ETG) and Yara Tanzania have also invested in blending plants that allow them to create different fertilizer formulations.

Table 2: Fertilizer production in Tanzania, 2010 - 2021

Fertilizer	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Minjingu organic hyper phosphate	11,102	4,761	1,560	25,660	-	35,000	2,300	10,168	2,375	13,487	22,982	30,253
NPS/NPK	1,368	5,815	36,916	35,000	15,000		3,900	9,066	7,733	14,657	6,572	14,139
Grand Total (mt)	12,470	10,576	38,476	60,660	15,000	35,000	6,200	19,234	10,108	28,144	29,554	44,392

Note: Some NPK are granulated and others are blended

4.2 Fertilizer Imports

- Tanzania fertilizer imports decreased by 40% from 662,868mt in 2020 to 395,033mt in 2021.
 - One major factor that contributed to the 40% decrease in 2021 was the high prices of fertilizers in the world market which affected both supply and demand.
- Table 3: Fertilizer Imports in Tanzania, 2010 – 2021

Fertilizer	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Urea	90,213	72,123	78,976	155,274	104,644	104,918	138,815	151,319	176,562	78,090	259,269	97,523
NPK	51,216	83,526	68,692	81,527	66,012	55,379	53,292	81,842	85,701	81,760	115,159	75,008
CAN	48,460	29,433	39,342	39,399	21,304	32,592	50,378	51,450	78,150	68,228	62,673	62,276
DAP	34,154	84,608	19,460	54,390	30,616	56,205	102,667	82,207	109,706	66,101	128,474	57,858
SoA	12,458	9,998	21,910	33,782	16,406	11,811	27,178	39,222	43,210	53,647	77,134	50,949
MOP	4,608	2,430	4,805	4,127	375	6,794	2,137	3,263	10,744	5,007	10,547	18,280
Calcium Nitrate	1,491	2,740	248	1,046	19,333	2,512	1,405	2,816	1,882	3,989	4,472	4,308
Others	2,298	4,594	3,402	3,691	20,977	2,023	4,530	5,124	5,556	8,987	5,140	28,832
Grand Total (mt)	244,896	289,452	236,835	373,235	279,666	272,234	380,402	417,242	511,510	365,808	662,868	395,033

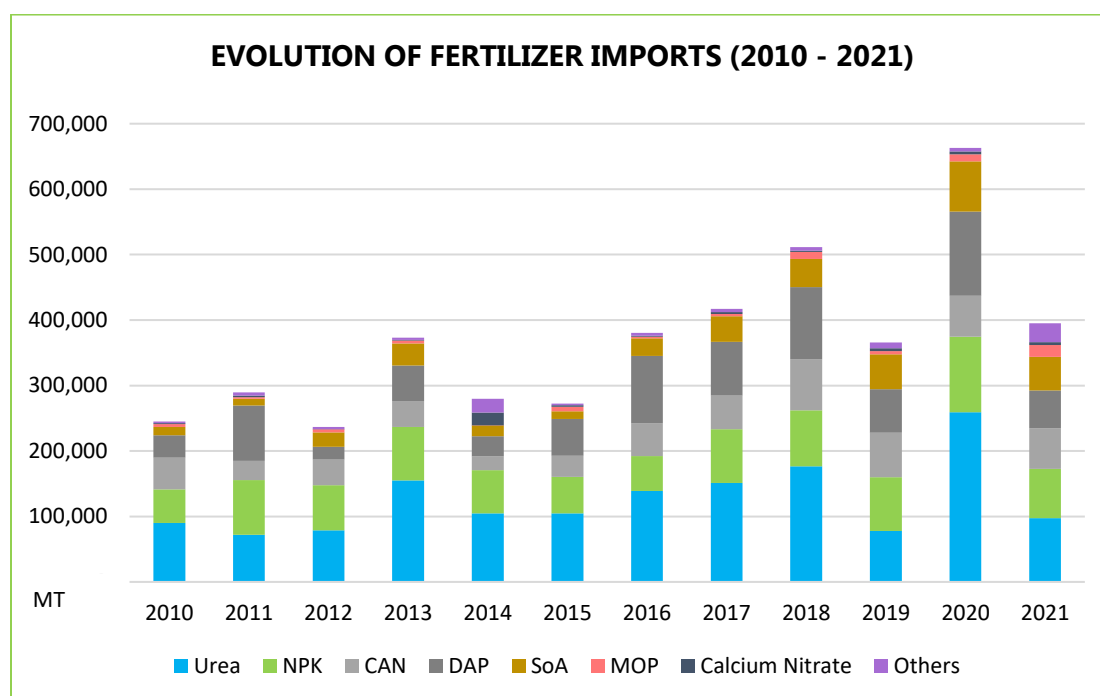


Figure 3: Evolution of fertilizer imports (2010 – 2020)

Blending companies import Urea, DAP and MOP to blend different NPK formulations for farmers in Tanzania and re-export to neighboring countries. Blenders and other major importers also import finished NPKs to sell directly to farmers. The table below shows the various grades and volumes of NPKs that were imported to Tanzania in 2021..

Table 4: Tanzania NPK import per volume, 2021

NPK, NP, PK and NK Imports	2019	2020	2021
NPK 23 10 5	6,066	24,902	13735
NPK 10 18 24	26,158	22,224	11053
NPK 17 17 17	16,783	21,868	19352
NPK 8 14 19		20,173	
NPK 13 24 12		8,336	6805
NPK 15 9 20	6,601	6,600	6707
NPK 22 6 12	9,936	5,671	5501
NPK 12 24 12	6,359	2,750	
NPK 25 5 5 + 4S		600	2500
NPK 20 10 10	3,276	550	1000
NPK 25 5 5	522	500	500
NPK 19 19 19 + TE		146	
NP 12 45 0 + 5S + 0.2Zn	5,500		
NP 19 38 0 + 7S	4,500		8040
Others	886	868	19633
Total (mt)	86,587	115,186	94826

4.3 Fertilizer Exports

Majority of fertilizer exports and re-exports from Tanzania were mostly to Rwanda and Burundi in 2021. Other countries include Kenya, Zambia, Democratic Republic of the Congo (DRC), and Malawi.

Fertilizer	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
NPK	12,860	466	10,892	12,018	383	12,353	20,057	9,939	26,763	52,869	31,983	29,720
Minjingu organic hyper phosphate	1,313	2,241	994	1,553	207	8,896	2,860	7,637	1,949	21,112	22,600	27,945
Urea	10,658	212	172	3,048	5,302	24,558	18,131	30,692	15,014	20,608	42,541	22,256
DAP	6,567	65	101	9,756	-	19,682	887	26,019	34,792	39,363	52,556	14,923
Others	8,928	1,572	30	3,739	52	4,279	4,059	13,223	5,711	7,875	11,909	17,638
Grand Total (mt)	40,326	4,556	12,188	30,115	5,944	69,767	45,994	87,510	84,228	141,827	161,589	112,482

Table 5: Fertilizer Exports from Tanzania, 2010 - 2021

4.4 Fertilizer Apparent Consumption

Apparent consumption of fertilizers in Tanzania decreased by 38% from 526,765mt in 2020 to 326,943mt in 2021. Price was still the major factor for reduced volumes of fertilizer apparent consumption.

Reduction in fertilizer imports also affected the apparent consumption in 2021.

Table 6: Fertilizer apparent consumption in Tanzania, 2011 - 2021

Fertilizer	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Urea	71,911	78,804	152,198	98,953	80,360	118,245	120,627	161,548	57,482	211,986	75,267
CAN	28,431	39,342	39,129	21,289	29,792	50,378	49,450	77,020	66,328	61,263	57,276
NPK	83,064	57,804	69,508	65,938	43,026	38,181	71,903	65,905	34,126	89,749	56,285
SoA	9,998	21,880	33,323	26,982	11,811	46,699	39,222	43,210	53,417	76,634	50,949
DAP	84,749	19,359	44,634	30,616	36,523	70,790	56,188	74,914	26,738	75,918	42,935
Others	17,895	46,050	65,065	44,321	47,877	9,338	12,102	14,793	21,659	11,215	44,232
Grand Total (mt)	296,047	263,240	403,857	288,100	249,389	333,631	349,491	437,390	259,750	526,765	326,943

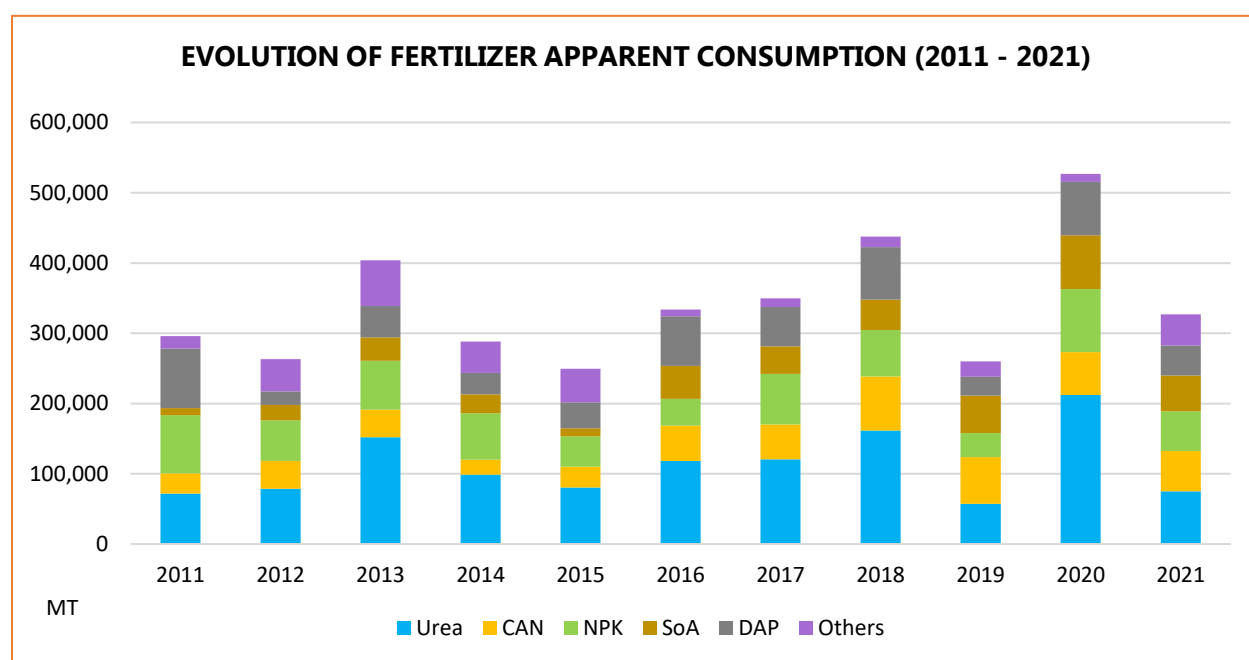


Figure 4: Evolution of fertilizer apparent consumption (2011 – 2020)

5.0 Learnings and interventions from other countries.

Tanzania

- Regional associations are very important for lobbying credit facilities during this period of crisis.
- There is a fertilizer association in Tanzania. Staco Agrochem is part of the association.
- Importers are seeking and encouraging use of alternative fertilizers that are cheaper and affordable to farmers. Example is CAN and Sulphate of Ammonia.
- Franks from Minjingu talked about shifting from DAP which has been known to cause soil acidity to other crop specific blends. Currently they are producing NPK, NP and compounds for crops like Tobacco and Cotton. Their Phosphate rock also contains nutrients like Calcium.

- For ETG, they are producing Kynoplus which an alternative of Urea which has become quite expensive.
- Minjingu needs to educate the public and conduct trials on their fertilizer products. They have crop- specific blends that are not popular in the local market. Franks responded that they are now working with extension officers to increase demo trials. They also have TV program to educate the public.
- TFRA will issue tender for DAP and Urea. The supplier does not have to supply both but what they win.
- What happened to the construction of the production plant? Natural gas was supposed to be used for production. It is very expensive which has delayed the start up.
- A new organic plant is coming up in Dodoma. Its capacity is 200 mtpy.
- Bulk shipments are always cheaper than vessels.
- Clearing of imports at the port has become inefficient since being taken over by one government entity away from the agents.
- Best way to handle the crisis is lowering the risks and getting the products.

Rwanda Data

Table 7: Fertilizer imports in Rwanda, 2011 - 2021

Fertilizer Name	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
NPK	12,664	22,352	19,297	20,849	42,579	22,837	26,257	25,435	36,900	46,645	38,317
DAP	10,178	6,603	14,236	11,886	5,774	16,828	17,422	13,573	27,163	25,936	27,117
Urea	4,942	6,978	10,886	8,619	10,162	4,730	12,436	15,688	18,936	22,644	18,662
Others fertilizers	-	-	-	182	723	1,319	1,806	3,111	2,652	1,163	1,709
Total (mt)	27,784	35,933	44,419	41,537	59,238	45,714	57,921	57,808	85,651	96,389	85,806

Table 8 Fertilizer apparent consumption in Rwanda, 2011 - 2021

Fertilizer Name	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
NPK	12,528	22,277	19,256	20,844	42,579	22,837	26,237	25,435	36,900	46,644	38,159
DAP	10,055	6,603	14,098	11,886	5,774	16,586	17,422	13,573	27,163	25,936	27,117
Urea	4,912	6,978	10,885	8,596	10,162	4,730	12,436	15,688	18,936	22,644	18,662
Other Fertilizers	-	-	-	182	722	1,319	1,806	3,105	2,652	1,163	1,707
Total (mt)	27,495	35,858	44,239	41,508	59,237	45,472	57,901	57,802	85,651	96,388	85,645

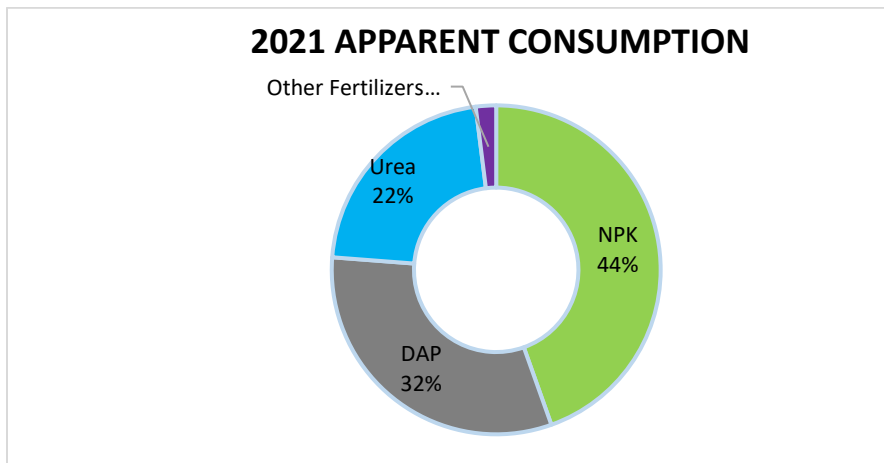


Figure 5 2021 fertilizer apparent consumption in Rwanda

- Government efforts during the crisis involves working directly with the producers. Currently working with OCP on different initiatives.
- The new plant, Rwanda Fertilizer Company is owned by Government and OCP. Construction is in progress.

6.0 Recommendations

- Beatrice Rwegoshora from NBS suggested to have the AFO website link on their NBS portal for popularity in Tanzania.
- Suggestion to have joint FTWG workshops for learnings and comparison.

5.1 Conclusion

The workshop ended at 4pm with Sebastian Nduva giving vote of thanks whereby he thanked all participants for their input and active participation throughout the workshop.

Annexes

Agenda

Wednesday 29 th June		
Time	Activity	Responsible
0840-0900H	Registration	Doris
0900-0930H	Opening remarks	Dr. Ngailo-TFRA CEO
	Introduction of participants	Sebastian N.
	Program overview and objectives	Viola K.
0930-0950H	Update on CountrySTAT	Beatrice R.
0950-1010H	Overview of AFO activities	Sebastian N.
1010- 1030H	Guide on navigating the AFO website/New AFO website/Country dashboards/Fertilizer Watch	Fred G.
1030-1100H	Coffee break	
1100-1120H	Tanzania fertilizer statistics overview – 2021 edition	Doris K.
1120-1140H	Review of 2021 datasets available from Tanzania/Rwanda	Fred G.
1140-1300H	Group work-Processing 2021 import/export data sets	Country Teams
1300-1400H	Lunch break	
1400-1600H	Group work-Processing 2021 import/export data sets	Country Teams
1600-1630H	Coffee break	
1630-1730H	Group work-Processing 2021 imports/export data sets	Country Teams
1730H	Adjourn	
Thursday 30 th June		
0820-0830H	Registration	Doris K.
0830-0840H	Program overview and objectives	Viola K
0840-1030H	Presentation and discussions of validated data	Fred. G
1030-1100H	Coffee break	Team leader
1100-1200H	Learning from other countries - Current crisis - learning from other countries - Regional portal - Nigeria and Ghana - Accelerator countries	Sebastian N.
1200-1300H	Private Sector Updates on activities and plans for 2022	Fred. G
1300-1400H	Lunch break	
1400-1500H	Addressing fertilizer crisis: price, shortage, and distribution.	Sebastian N. /Edwin O
1500-1600H	Updates on country fertilizer programs and initiatives <ul style="list-style-type: none"> • BPS • Fertilizer production projects • Fertilizer policy • Ministry updates-Input 	Mselem S. Franks K. Private sector Michael L.
1600-1610H	Next steps, Vote of Thanks & Adjourn	Sebastian N.

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