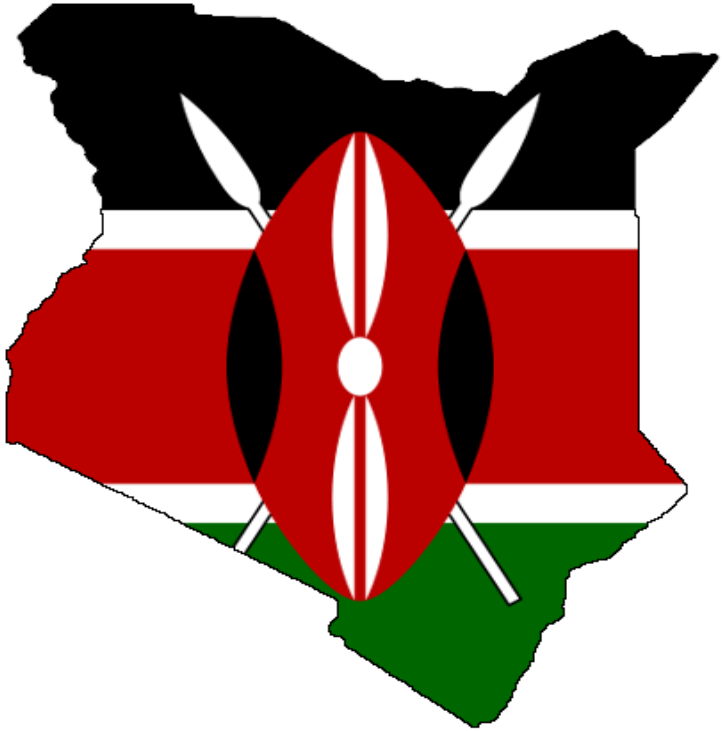
AfricaFertilizer.org



Fertilizer Statistics Overview

KENYA

2012 - 2015

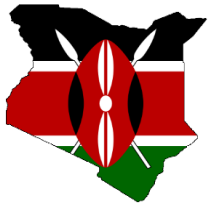
IFDC

International Fertilizer Industry Association

CountrySTAT
Food and agriculture data network

afap
African Fertilizer and Agribusiness Partnership
Partnerships.Productivity.Prosperity.

NEPAD
A PROGRAMME OF THE AFRICAN UNION



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
9. Summary
10. About us

Background information

- An overview of fertilizer statistics in Kenya from 2012 – 2015.
- More emphasis is given to the year 2015 and each analysis is based on the products with higher quantities.
- Data obtained from Kenya National Bureau of Statistics (KNBS) and Validated by Fertilizer Technical Working Group – Kenya (FTWG-KEN)
- 2015 data validated from the 3rd – 4th October, 2016.

Fertilizer production

HS Code	Product	2012	2013	2014	2015
3103100000	SSP			2,500	3,000

Source: FTWG-KEN
**2015 estimated*

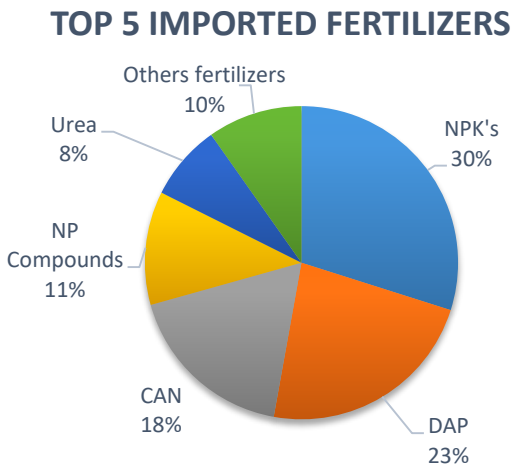
Comments:

- There is primary production of SSP in Kenya by KEL Chemicals limited.
- There are also secondary production of fertilizers by Arm Cement Limited (Mavuno Fertilizers), Mea Fertilizers and Toyota Tshusho Fertilizer Africa, blending different grades of NPK's.

Fertilizer imports

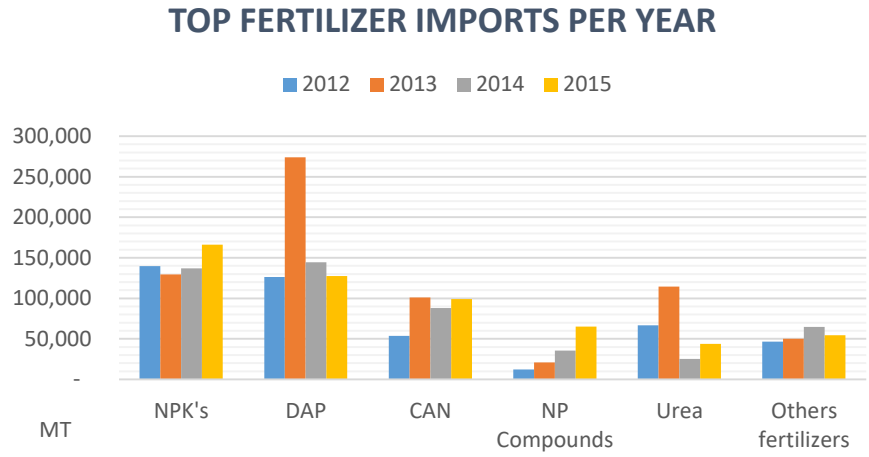
HS Code	Fertilizer Name	2012	2013	2014	2015
3105200000	NPK's	139,578	129,540	136,880	166,342
3105300000	DAP	126,470	273,939	144,450	127,672
3102400000	CAN	53,616	101,201	87,900	99,120
3105510000	NP Compounds	12,028	20,853	35,594	65,295
3102100000	Urea	66,804	114,515	25,117	43,584
	Others fertilizers	46,684	49,983	64,779	54,419
Total fertilizer for agric (mt)		**445,180**	**690,032**	**494,720**	**556,432**

Source: FTWG-KEN



Comments:

- NPK's, DAP & CAN accounted for 71% of the total fertilizers officially imported to Kenya.
- Comparing the imports for the past four years shows that the top 5 imports have been consistent throughout.
- Urea imports increased to 8% of the total imports in 2015 as compared to previous year of 5%.

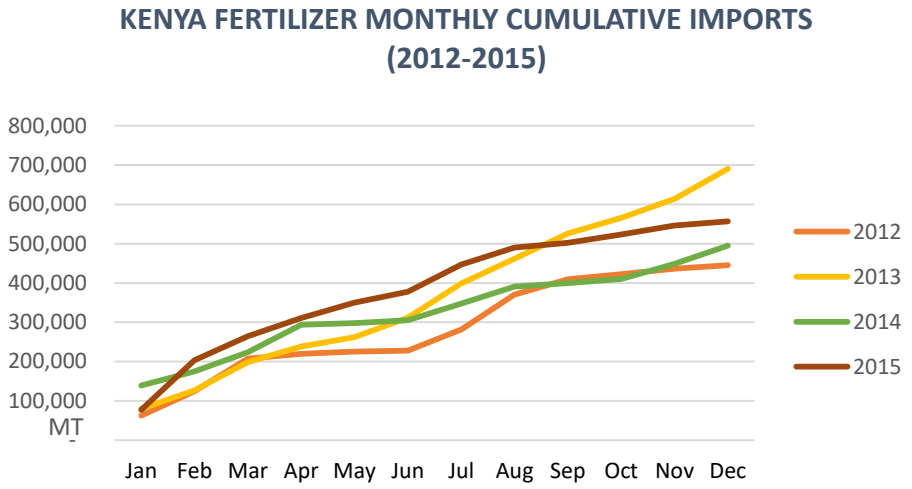


Other fertilizers includes products like; Phosphate Rock, SOP, MOP, Potassium nitrate, etc

Fertilizer monthly imports

Quarter	2012	2013	2014	2015
Q1	207,676	198,290	223,978	264,203
Q2	20,365	113,542	80,909	113,501
Q3	181,479	214,146	94,846	124,777
Q4	35,661	164,053	94,986	53,951
Total	**445,180**	**690,032**	**494,720**	**556,432**

Source: FTWG-KEN



Comments:

- Most fertilizers imported to Kenya reach the port in the first quarter.
- In 2015, fertilizers imports was at its peak in February with 125,756mt (almost 23% of all 2015 imports).

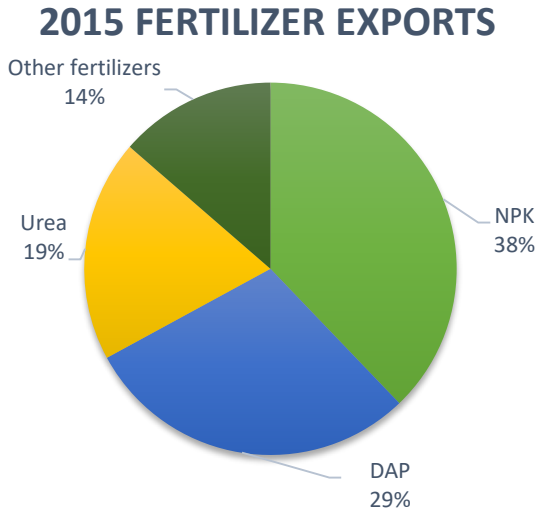
SEASON	CROPS	Jan	Feb	Mar	Apr	May	Jun	Jul	Jul	Aug	Sep	Oct	Nov	Dec
Major Season (Long Rains)	**Beans**													
	Fertilizer peak demand													
	Maize													
	Fertilizer peak demand													
	Millet													
	Fertilizer peak demand													
	Sorghum													
	Fertilizer peak demand													
	Wheat													
	Fertilizer peak demand													
	Rice													
	Peak demand													
Season (Short Rains)	**Maize, Millet, Sorghum, Beans, Barley**													
	Fertilizer peak demand													
Key:	fertilizer Peak demand			sowing			growing					harvesting		

FAO/GIEWS,FEWSNET

Fertilizer exports

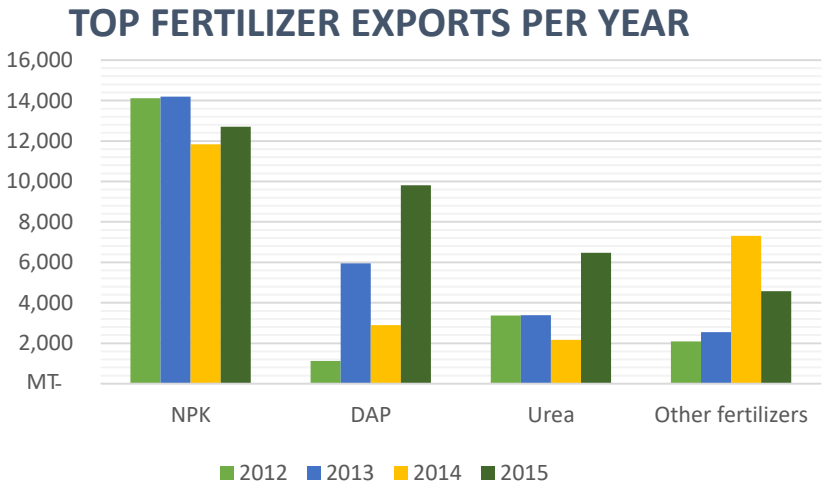
HS Code	Fertilizer Name	2012	2013	2014	2015
3105200000	NPK	14,121	14,188	11,838	12,701
3105300000	DAP	1,127	5,951	2,897	9,813
3102100000	Urea	3,375	3,393	2,176	6,479
	Other fertilizers	2,082	2,552	7,316	4,577
Total fertilizers for Agric (mt)		**20,705**	**26,084**	**24,227**	**33,570**

Source: FTWG-KEN



Comments:

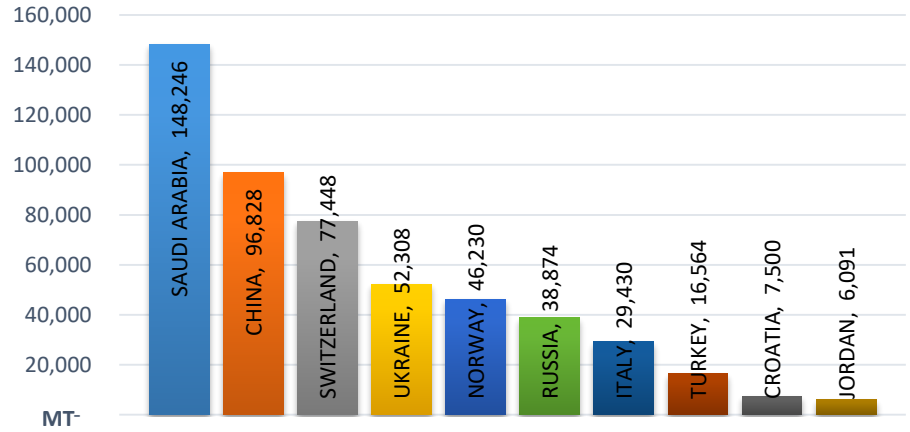
- In 2015, NPK's were the most exported fertilizers from Kenya-38%, of total fertilizer exports.
- NPK's, Urea and DAP exports has been consistent over the years.



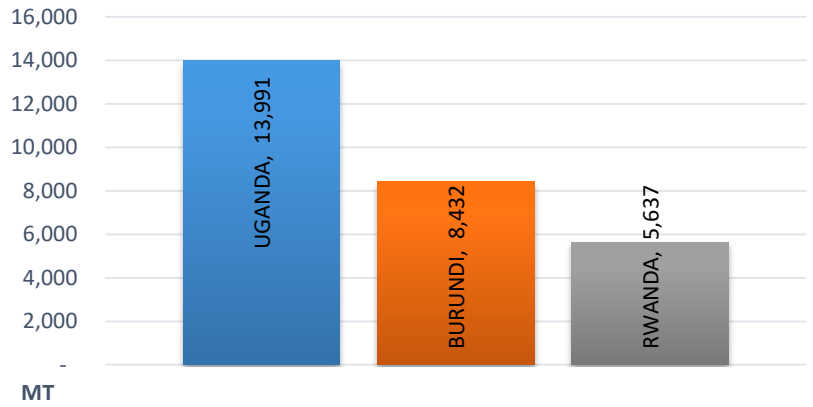
Other fertilizers includes products like; Phosphate Rock, SOP, MOP, Potassium nitrate, etc

Fertilizer origins and destinations 2015

TOP 10 COUNTRIES OF ORIGIN



COUNTRY OF DESTINATIONS (EXPORTS)



2015 product per origin

Countries of Origin	Saudi Arabia	China	Switzerland	Ukraine	Norway	Russia	Others
NPK	-	0%	47%	2%	23%	23%	5%
DAP	97%	0%	-	-	-	-	3%
CAN	-	0%	-	50%	-	-	50%
NP Compounds	-	99%	-	-	-	-	1%
Urea	57%	32%	-	-	-	-	12%
Other fertilizers	-	33%	-	-	13%	0%	54%

2015 product per destination

Countries of Destinations	Uganda	Burundi	Rwanda	Others
NPK's	40%	3%	23%	34%
DAP	27%	66%	7%	-
Urea	65%	24%	12%	0%
Other fertilizers	44%	2%	28%	25%

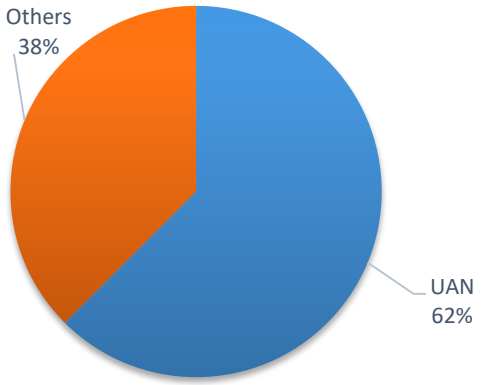
Source: FTWG-KEN

Agricultural and non agricultural uses

Usage	2012		2013		2014		2015	
	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%
Agriculture	445,180	99.9%	690,032	99.8%	494,720	99.8%	556,432	99.9%
Industrial/Mines	396	0.1%	1,134	0.2%	793	0.2%	804	0.1%
Total (MT)	**445,576**	**100.0%**	**691,166**	**100.0%**	**495,513**	**100.0%**	**557,236**	**100.0%**

Source: FTWG-KEN

2015 NON FERTILIZER USE



Comments:

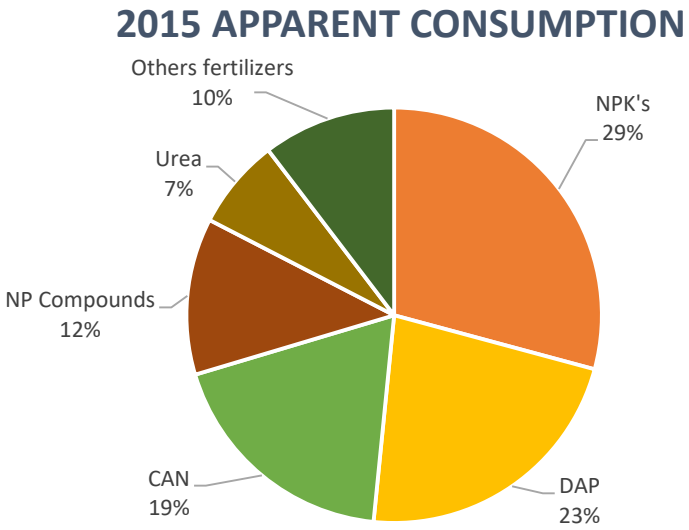
- Some fertilizer products can be used for both agricultural and industrial purpose depending on the importer.
- On the average, about 0.1% of products imported to Kenya as fertilizers are not used for agricultural purpose.

Others includes Urea, Sodium nitrate, SOP, etc

Fertilizer apparent consumption

HS Code	Fertilizer Name	2012	2013	2014	2015
3105200000	NPK's	129,803	119,283	133,878	153,640
3105300000	DAP	125,344	267,988	141,553	117,859
3102400000	CAN	53,000	99,898	87,021	98,940
3105510000	NP Compounds	11,954	20,829	35,587	64,218
3102100000	Urea	63,480	110,838	22,941	37,105
	Others fertilizers	40,961	48,146	64,029	54,560
Total (mt)		**424,542**	**666,981**	**485,008**	**526,322**

Source: FTWG-KEN

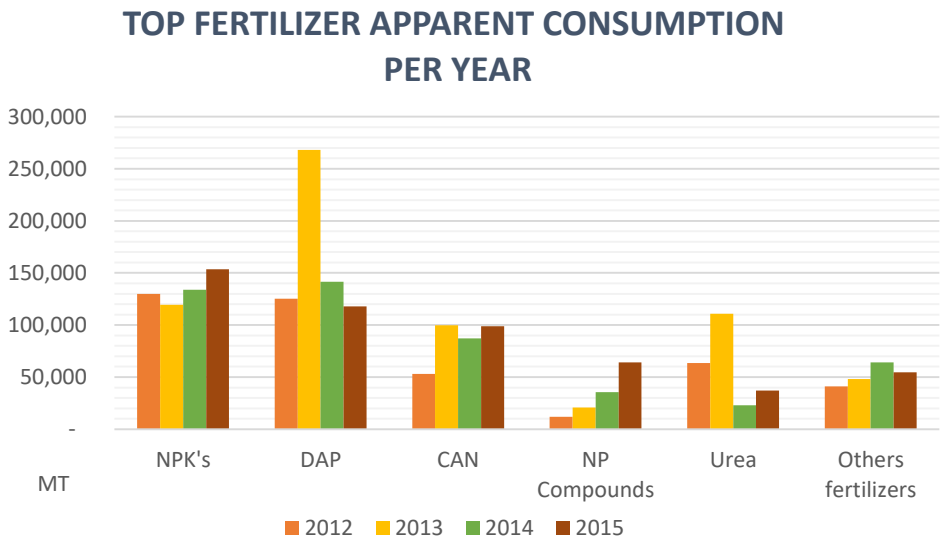


Comments:

- NPK's and DAP were the most consumed fertilizers in Kenya in 2015 (accounted for more than 50%).
- In 2015 total apparent consumption of fertilizers in nutrients were 226 with 121 N, 84 P_2O_5 and 22 K_2O.

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

Nutrient aggregates was derived using AFO conversion methodology

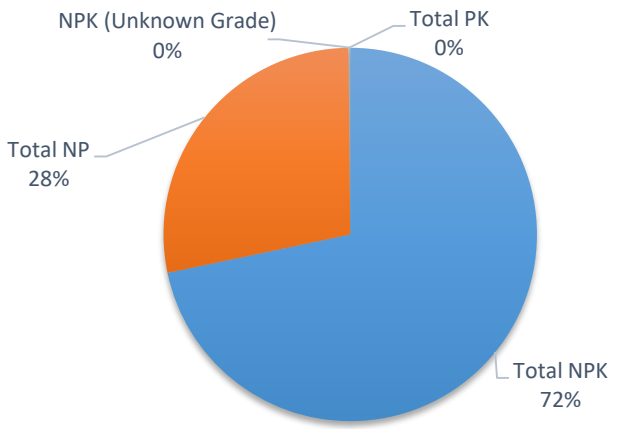


NPK analysis

HS Code	Fertilizer Name	2012	2013	2014	2015
3105200000	Total NPK	139,578	129,540	136,880	166,342
3105510000	Total NP	12,028	20,853	35,594	65,295
3105700000	Total NK	-	466	3	-
3105600000	Total PK	86	23	1,610	365
3105900000	NPK (Unknown Grade)	8,758	1,442	800	1
Total (mt)		**160,450**	**152,324**	**174,887**	**232,003**

Source: FTWG-KEN

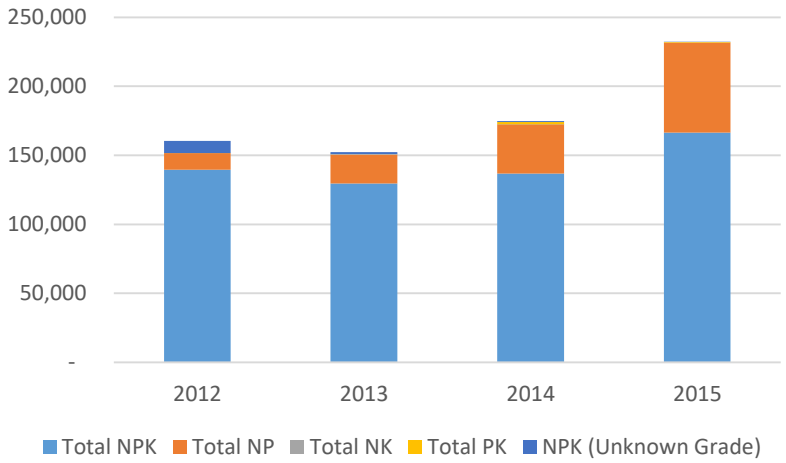
2015 NPK COMPLEX FERTILIZERS



Comments:

- NPK's with known grades accounted for 71% of all complex fertilizers imported to Kenya in 2015.
- Total NPK imports in 2015 recorded a percentage increase of 33% from 174,887mt in 2014.

NPK COMPLEX FERTILIZERS PER YEAR



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

NPK analysis – top 5 2015

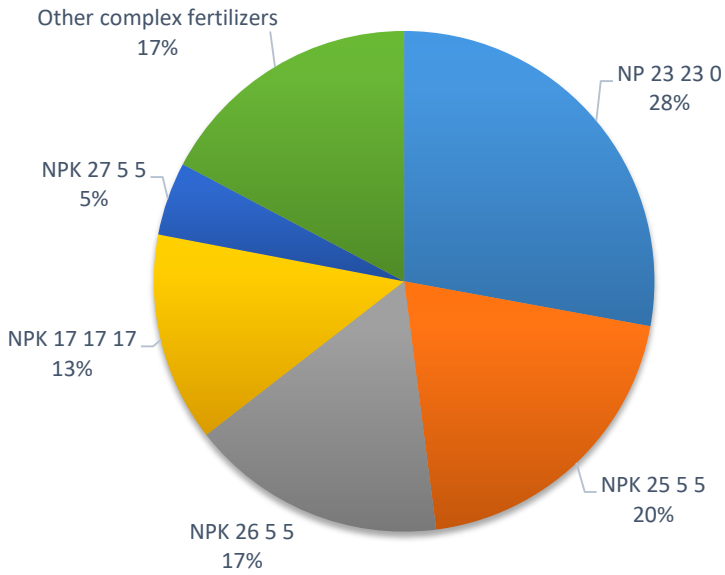
HS Code	Fertilizer Name	2015	Major Crops
3105513704	NP 23 23 0	64,672	Maize, Rice, Sugarcane
3105203104	NPK 25 5 5	46,574	Tea
3105203120	NPK 26 5 5	38,374	Tea
3105202522	NPK 17 17 17	31,339	Coffee, Rice, Sugarcane and Horticulture
3105203119	NPK 27 5 5	11,000	
	Other complex fertilizers	40,044	
	Total (mt)	**232,003**	

Source: FTWG-KEN

Comments:

- 67 various grades of NPK, NP, NK and PK have officially been listed with 5 accounting for 83% of all NPK complex fertilizers

DISTRIBUTION OF NPK COMPLEX PER GRADE



Volumes and Values 2015

HS Code	Fertilizer Name	Volumes (MT)	Values (USD)	USD/Ton
3105300000	DAP	127,672	65,628,850	514
3102400000	CAN	99,120	32,551,865	328
3105513704	NP 23 23 0	64,672	29,977,883	464
3105203104	NPK 25 5 5	46,574	17,134,328	368
3102100000	Urea	43,584	14,506,355	333
3105203120	NPK 26 5 5	38,374	14,262,557	372
3105202522	NPK 17 17 17	31,339	13,873,696	443

Exchange rate source: (oanda.com Time Period average: 1/1/2015 to 31/12/2015) Kenya=96.677KES/US$

Comments:

- The table shows volumes and values of selected fertilizers officially imported in 2015

❖ USD/Ton = FOB values ÷ volumes imported

Summary of 2015 fertilizer statistics for Kenya

HS Code	Product Name	Production	Total Imports	Exports	Domestic Availability	Non Fertilizer use	Agricultural Imports	Apparent Consumption
2510000000	Phosphate Rock		1,246	11	1,235		1,246	1,235
2814100000	Anhydrous ammonia		52		52	52	-	0
2814200000	Ammonium hydroxide		93		93	93	-	0
2834210000	Potassium nitrate		580	39	541		580	541
2834290000	Magnesium Nitrate		495		495		495	495
3101000000	Organic fertilizer		652	75	577		652	577
3102100000	Urea		43,589	6,479	37,110	5	43,584	37,105
3102210000	Ammonium sulphate		6,119	376	5,743		6,119	5,743
3102300000	Ammonium nitrate		0		0	0	-	0
3102400000	CAN		99,120	180	98,940		99,120	98,940
3102500000	Sodium nitrate		24		24	24	-	0
3102600000	Calcium nitrate		24,072	387	23,684		24,072	23,684
3102800000	UAN		502		502	502	-	0
3102900000	Other N fertilizer		1,042	2	1,039		1,042	1,039
3103100000	SSP	3,000		42	2,958		-	2,958
3103101000	TSP		2,074	217	1,857		2,074	1,857
3103900000	Other P fertilizer		296	368	0		296	0
3104200000	MOP		13,354	1,279	12,075	18	13,336	12,057
3104300000	SOP		3,233	113	3,120	82	3,152	3,038
3104900000	Other K fertilizer			372	0		-	0
3105200000	NPK		166,344	12,701	153,642	2	166,342	153,640
3105300000	DAP		127,672	9,813	117,859		127,672	117,859
3105400000	MAP		1,016	19	997	24	992	973
3105510000	NP compounds		65,295	1,077	64,218		65,295	64,218
3105600000	MKP 0 52 34		365	3	362		365	362
3105900000	NPK (Unknown grade)		2		2	1	1	1
2833210000	Magnessium sulphate			17	0		-	0
Grand Total (MT)		**3,000**	**557,236**	**33,570**	**526,666**	**804**	**556,432**	**526,322**

Participants of 2016 FTWG

Name	Institution	Position	Email
Edwin Ombui Oseko	MOAL&F	Fertilizer Promotion Officer	ombuioseko68@yahoo.com
Tom Odhiambo Dienya	MOAL&F	CountrySTAT NPC	tm.dienya@gmail.com
Alex Mwaniki Wambua	ASCU (MOAL&F)	Statistician	mwanikialex19@gmail.com
Henry Ogola	Chemagro International	Managing Director	henryogola@chemagro.co.ke
Daniel Edward Mwangi Ndegwa	MEA	Sales Director	ndegwa@mea.co.ke
John Gitau Mburu	KNBS	Statistician	jmburu@knbs.or.ke
Anthony Makau	KNBS	Trade Statistician	amakau@knbs.or.ke
Justus Maweu Malelu	KRA	Statistician	J.Malelu@kra.go.ke
Michael Gitau Gituanja	EAC	Statistician	mggitau@gmail.com
Grace Chilande Wekhuyi	IFDC	Fertilizer Market Specialist	gchilande@ifdc.org
Mary Maina	IFDC	Fertilizer Market Analyst	mmaina@ifdc.org
Denis Mose	IFDC	Fertilizer Statistics Manager	dmose@ifdc.org
Fred Gyasi	IFDC	Fertilizer Statistics Manager	fgyasi@ifdc.org

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

Links

Africafertilizer.org

facebook AfricaFertilizer.org

twitter @AfricFertilizer

CountrySTAT Kenya

Report of Joint Kenya, Tanzania & Ethiopia FTWG Validation workshop 2016.