



AfricaFertilizer.org



FERTILIZER STATISTICS OVERVIEW GHANA 2015 - 2019

2020 Edition



Outline

1. Production
2. Imports
3. Exports
4. Origins
5. Agric. and non-agric. use
6. NPK import analysis
7. Consumption (app)
8. Summary

Background Information

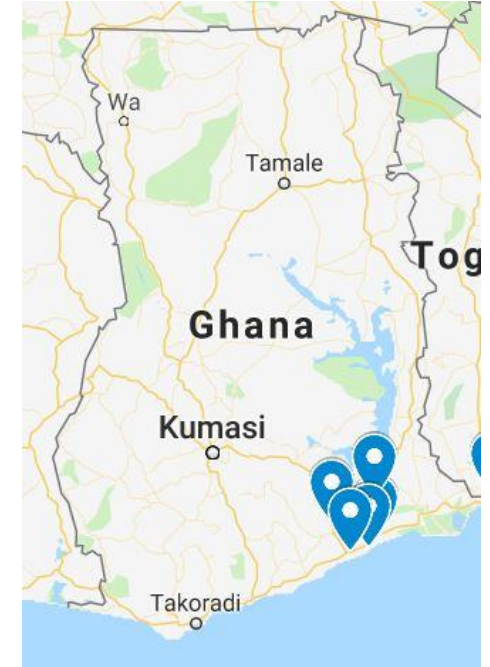
- Overview of fertilizer statistics in Ghana from 2015 – 2019.
- Emphasis is 2019 and each analysis is based on the products with higher quantities.
- Official trade data obtained from Ghana Statistical Service (GSS) and validated by CountrySTAT Fertilizer Technical Working Group – Ghana (FTWG-GHA)
- 2018 data validated on 11th Feb, 2020.

Fertilizer Production

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Comments

- There is no primary production of inorganic fertilizers in Ghana.
- Fertilizers are imported in compounds and bulk. The bulk fertilizers are blended into various formulations and distributed through a network/system of distributors and retail agro-dealers.
- Five of the major importing companies, including Yara Ghana, Chemico Limited, Macrofertil, OmniFert and GloFert, have invested in blending plants that allows them to create different fertilizer formulations.
- All blending plants are located at the southern part of the country. Yara and Chemico are located at the port city of Tema; Macrofertil is at Kpong; OmniFert is located at Dawhenya; while GloFert is at Teacher Mantey.
- A sixth blending plant is being set up at Tema by the AMG Ltd
- A small percentage of organic fertilizers is produced locally by ACARP, Safisana and JEKORA Ventures.

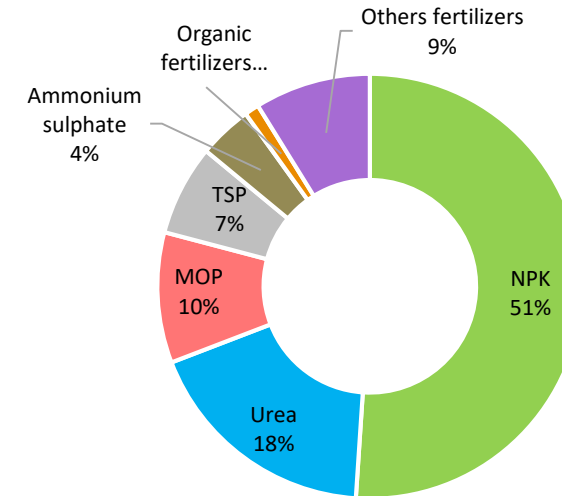


Fertilizer Imports

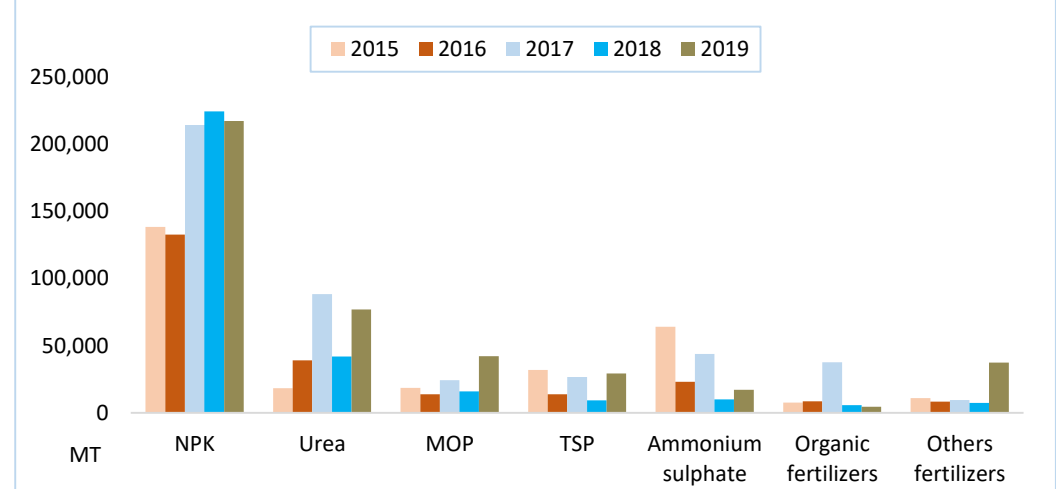
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HS Code	Fertilizer Name	2015	2016	2017	2018	2019
3105200000	NPK	138,140	132,632	213,887	224,176	217,024
3102100000	Urea	18,348	39,035	88,259	42,005	77,011
3104200000	MOP	18,707	13,842	24,235	15,993	42,235
3103101000	TSP	32,052	13,802	26,766	9,460	29,300
3102210000	Ammonium sulphate	64,015	23,268	43,865	10,084	17,326
3101000000	Organic fertilizers	7,818	8,772	37,643	5,875	4,673
	Others fertilizers	11,077	8,532	9,582	7,564	37,542
Total (mt)		290,156	239,883	444,236	315,157	425,110

TOP 6 IMPORTED FERTILIZERS 2019



TOP FERTILIZER IMPORTS PER YEAR



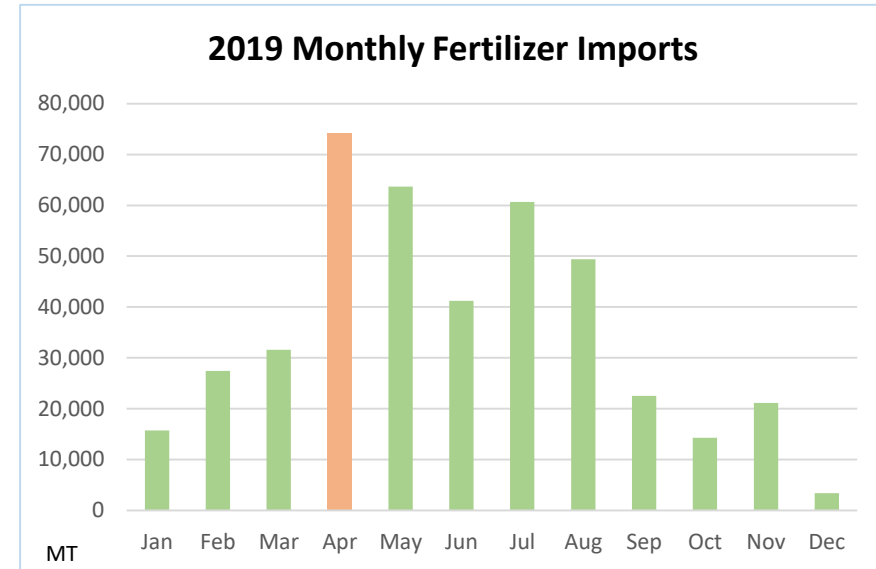
Comments

- There was a 35% increase in official fertilizer imports from 2018 to 2019.
- 2019 fertilizer imports totaled 425,110mt and 1,669,988 liters
- Since Ghana is currently a subsidy market, the increase can be attributed to the Planting for Food and Jobs (PFJ) program that allocated 331,000mt and 1,200,000 liters of fertilizers and COCOBOD subsidy for cocoa farmers which allocated 159,000mt and 446,400 liters in 2019.

Monthly Fertilizer Imports

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Quarter	2015	2016	2017	2018	2019
Q1	34,821	40,602	110,084	19,057	74,698
Q2	184,132	154,861	279,443	207,292	179,091
Q3	45,533	25,660	39,819	69,099	132,555
Q4	25,669	18,760	14,890	19,708	38,767
Total (mt)	290,156	239,883	444,236	315,157	425,110



Comments

- Most fertilizers imported to Ghana arrived at the port around the second quarter as the major planting season starts from April.

Crop Calendar

SEASON	CROPS	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Major Season (Long Rains)	Cassava(1st year)				◆	◆	◆	◆	◆	◆	◆	◆	◆
	Cassava(2nd year)	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Maize(North main*)						◆	◆	◆	◆	◆	◆	◆
	Maize(South main*)			◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
	Sorghum & Millet					◆	◆	◆	◆	◆	◆	◆	◆
	Rice(North)					◆	◆	◆	◆	◆	◆	◆	◆
	Rice(South)				◆	◆	◆	◆	◆	◆	◆	◆	◆
	Yams	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆
Minor Season (Short Rains)	Cassava, Maize, Millet, Sorghum, Rice, Yams							◆	◆	◆	◆	◆	◆

Key: ◆ Fertilizer Peak Demand Sowing Growing Harvest

Source : FAO/GIEWS

Fertilizer Exports

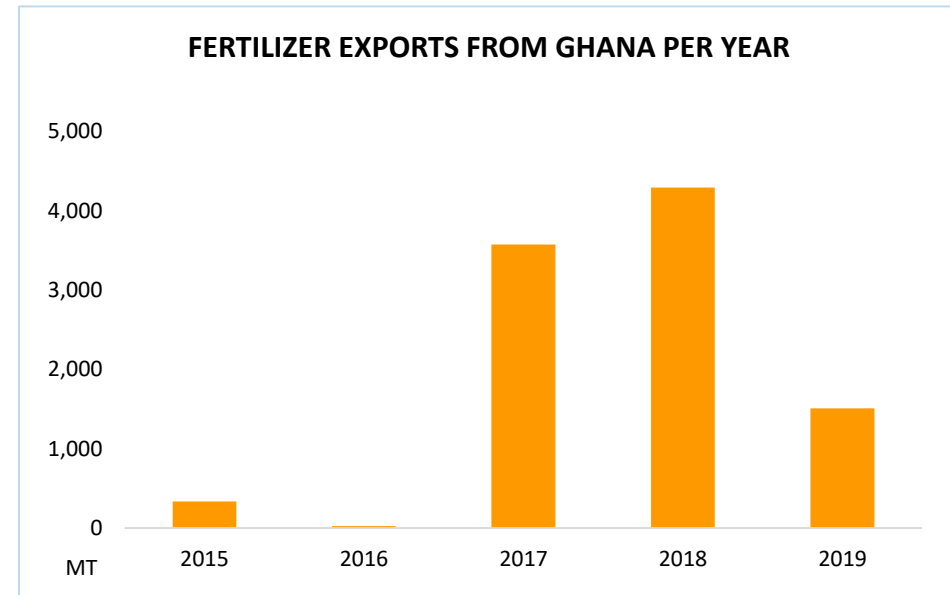
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HS Code	Fertilizer Name	2015	2016	2017	2018	2019
3105200000	NPK	238		3,500	4,000	1,407
3102100000	Urea	95			3	90
	Other fertilizers		25	75	288	10
Total (mt)		333	25	3,575	4,291	1,507

Comments

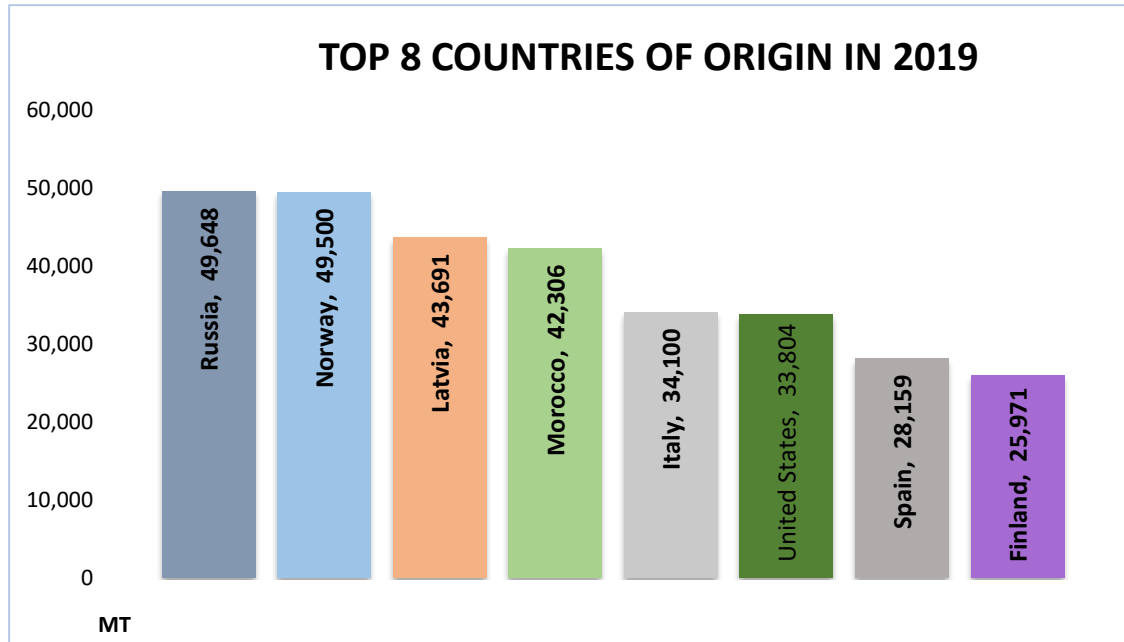
- Official fertilizer exports and re-exports are very low. In 2019, there were about 1,500mt of fertilizers, mostly NPK that were officially exported to Burkina Faso.

- ❖ Ghana does not produce fertilizers. All exports also includes 're-exports'. Fertilizers are mostly imported in bulk, blended and bagged before exporting.



Fertilizer Origins

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Countries of Origin	Russia	Norway	Morocco	Latvia	Italy	United States	Other Countries
NPK	7%	23%	4%	12%	14%	7%	33%
Urea	28%	-	-	24%	-	11%	37%
MOP	14%	-	-	-	-	2%	85%
TSP	-	-	70%	-	-	-	30%
Ammonium sulphate	-	-	-	-	19%	-	81%
Others	17%	0%	31%	0%	-	22%	29%

- ❖ Most MOP were imported from Lithuania.
- ❖ Most SoA were imported from China.



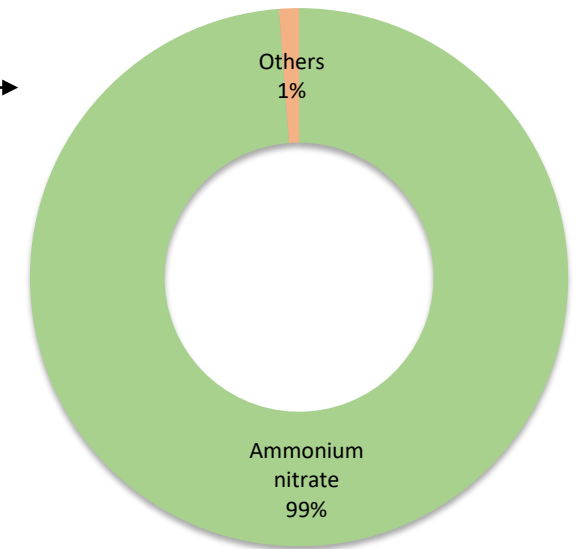
Urea

Agricultural and Non-agricultural Uses

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Usage	2015		2016		2017		2018		2019	
	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%	Volume (MT)	%
Agriculture	290,156	81%	239,883	83%	444,236	86%	315,157	78%	425,110	82%
Industrial/Mines	67,673	19%	50,276	17%	73,957	14%	90,416	22%	90,286	18%
Total (MT)	357,829	100%	290,159	100%	518,193	100%	405,573	100%	515,396	100%

2019 NON FERTILIZER USE



Comments

- Some products can be used for both agricultural and industrial purposes depending on the importer.
- In Ghana, products like Ammonium nitrate are imported and mostly used by the mining industries.

NPK Imports Analysis

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HS Code	Fertilizer Name	2015	2016	2017	2018	2019
3105200000	Total NPK	138,140	132,632	213,887	224,176	217,024
3105510000	Total NP	-	-	40	2	
3105700000	Total NK	48	-	0	24	1
3105600000	Total PK	-	-	11	-	
3105900000	NPK (Unknown Grade)	89	0	16	-	
Total (mt)		138,277	132,632	213,954	224,203	217,025

Fertilizer	2019 NPK Imports
NPK 23 10 5	62,250
NPK 20 10 10	31,300
NPK 5-16-15 + TE	23,997
NPK 15 15 15+ 2MGO+ 3S + 0.30ZN	15,000
NPK 7 20 13 + 6CaO + 5S + 5MgO + 0.4B + TE + Zn	11,703
NPK 21 10 10 + 2S + 1 B	11,550
NPK 3 20 18 + 6CaO + 7MgO + 4S + 0.5B + 0.5Zn	11,000
Other NPK's	50,225
Total (mt)	217,025

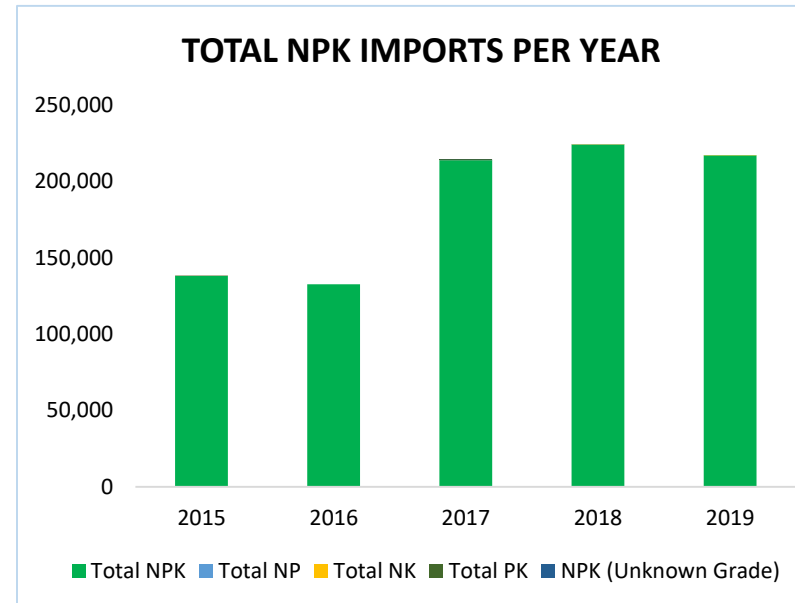


NPK Blend

Comments

- Blending companies import Urea, TSP, DAP, MAP and MOP to blend different formulations of NPK for farmers in Ghana.
- Blenders and other major fertilizer importing companies also import finished NPK with various grades to sell directly to farmers.

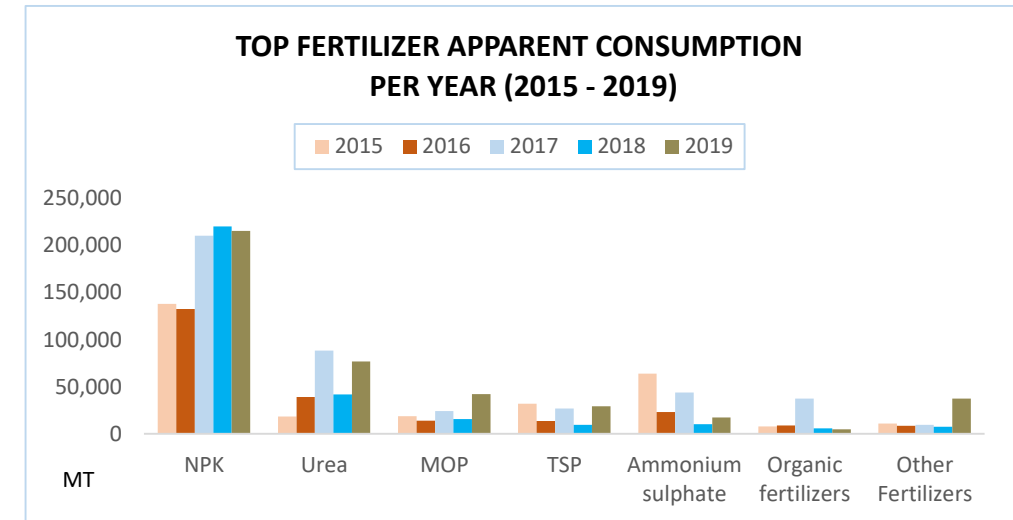
TOTAL NPK IMPORTS PER YEAR



Fertilizer Apparent Consumption

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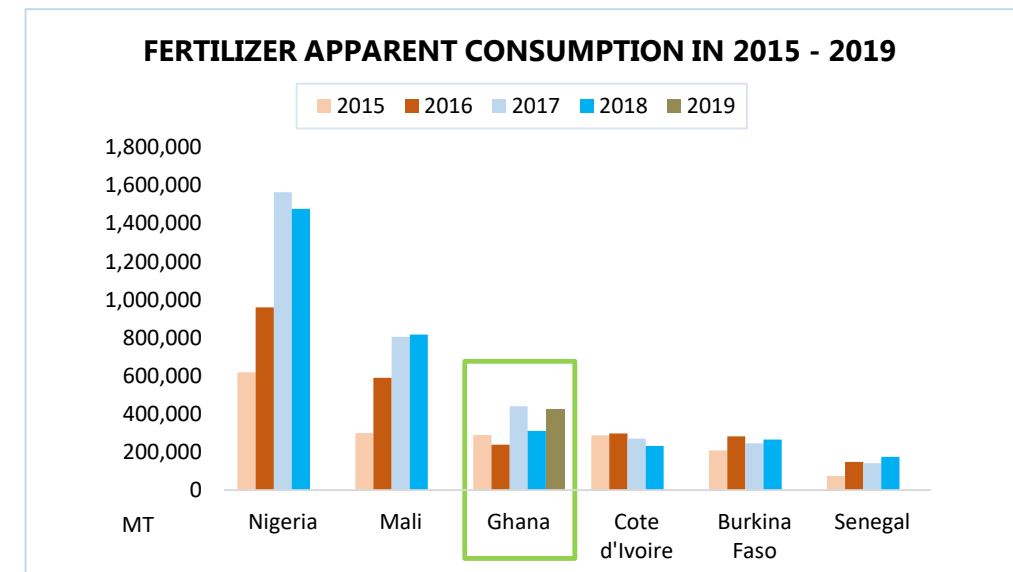
HS Code	Fertilizer Name	2015	2016	2017	2018	2019
3105200000	NPK	137,902	132,632	210,387	220,176	215,617
3102100000	Urea	18,253	39,035	88,259	42,002	76,921
3104200000	MOP	18,707	13,842	24,235	15,712	42,235
3103101000	TSP	32,052	13,802	26,766	9,460	29,300
3102210000	Ammonium sulphate	64,015	23,268	43,865	10,084	17,326
3101000000	Organic fertilizers	7,818	8,747	37,568	5,868	4,663
	Other Fertilizers	11,077	8,532	9,582	7,564	37,542
Total (mt)		289,822	239,858	440,661	310,866	423,603

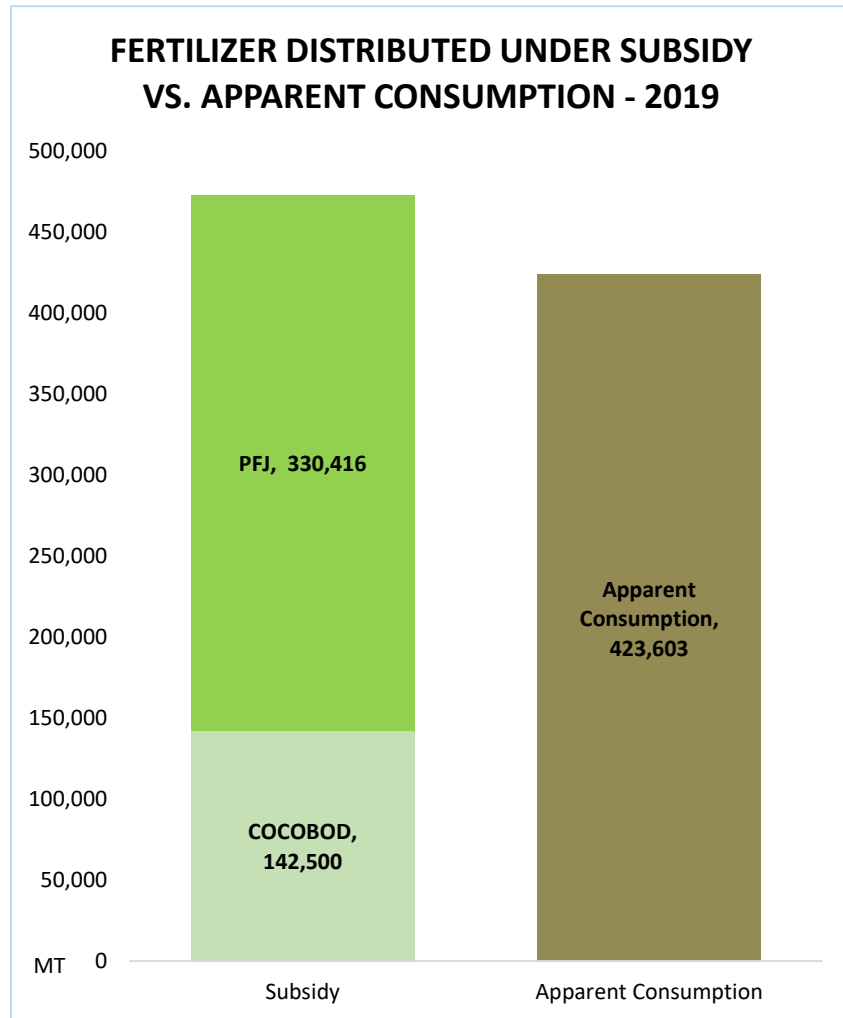


Comments

- There was a 36% increase in apparent consumption from 2018 to 2019.
- 2019 fertilizer apparent consumption was 423,603mt and 1,669,986 liters.
- PFJ distributed 330,416mt and 957,795 liters of fertilizers for food crops while COCOBOD distributed 142,500mt and 446,400 liters under cocoa subsidy in 2019.
- Carryover stocks from companies are unknown.

NB: Apparent consumption = Production + Imports – Exports – Non Fertilizer Use





Comments

- The graph compares the solid fertilizers that were distributed to the various regions in Ghana under the Planting for Food and Jobs (PFJ) program and the COCOBOD subsidy to the apparent consumption of 2019.
- Fertilizer apparent consumption is lower than fertilizers distributed by both subsidy programs.
- Not all fertilizers distributed were used.
- This also shows that, there were carry over of fertilizers from 2018 into 2019 as blenders do not only sell under subsidies but also to the open market.
- There are also issues of illegal exports (smuggling); most especially to Burkina Faso but there are no official figures.

Summary of 2019 Fertilizer Statistics

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HS Code	Product	Production	Imports Total Solid (MT)	Imports Total Liquid (Liters)	Fertilizer Exports Solid(MT)	Fertilizer Exports Liquid (Liters)	NFU Imports Solid (MT)	NFU Imports Liquid (Liters)	2019 Solid Fertilizer Imports (MT)	2019 Liquid Fertilizer Imports (Liters)	2019 Apparent Consumption - Solid (MT)	2019 Apparent Consumption - Liquid (Liter)
3105200000	NPK		217,024	99,334	1,407	2			217,024	99,334	215,617	99,332
3102100000	Urea		77,011	-	90		0		77,011		76,921	-
3104200000	MOP		42,868	284			633	285	42,235		42,235	-
3103101000	TSP		29,300	-					29,300		29,300	-
3105400000	MAP		18,102	-					18,102		18,102	-
3102210000	Ammonium sulphate		17,326	-			0		17,326		17,326	-
3105300000	DAP		9,163	-			0		9,163		9,163	-
3101000000	Organic fertilizer		4,673	1,366,393	10				4,673	1,366,393	4,663	1,366,393
3103900000	Phosphate fertilizer		4,189	-					4,189		4,189	-
3104300000	SOP		3,831	34			0	34	3,831		3,831	-
2510000000	Rock Phosphate		600	-					600		600	-
3102600000	Calcium nitrate		295	-					295		295	-
2834210000	Potassium nitrate		205	-					205		205	-
3105700000	NK 7 0 14 + 2MgO + 4Fe		1	-					1		1	-
9999999990	Micromate (Micronutrients)		1,002	-	0				1,002		1,002	-
9999999990	Magnesium sulphate		183	-			104		79		79	-
9999999990	Kieserite		48	-					48		48	-
9999999990	8-Calcium 5-Boron		-	74,386						74,386	-	74,386
9999999990	Calcium silicate		20	-					20		20	-
9999999990	Calcium Magnesium		7	-					7		7	-
9999999990	Boron		-	64,273						64,273	-	64,273
9999999990	Zinc sulfate		-	27,478						27,478	-	27,478
3102900000	Nitrogen fertilizer		-	24,494						24,494	-	24,494
3104900000	Potassium fertilizer		-	5,821						5,821	-	5,821
3105600000	PK compound		-	2,920						2,920	-	2,920
9999999990	Iron and sulfur		-	2,447						2,447	-	2,447
3102300000	Ammonium nitrate		89,211	-			89,211				-	-
3102500000	Sodium nitrate		338	-			338				-	-
3102800000	UAN		-	39,240				39,240			-	-
9999999990	Molybdenum and Cobalt		-	2,442						2,442	-	2,442
Grand Total			515,396	1,709,547	1,507	2	90,286	39,559	425,110	1,669,988	423,603	1,669,986

*Code 9999999990 has been introduced to indicate fertilizers that does not contain primary nutrients

*Figures in green column represents solids (in mt) and blue represents liquids (in liters)

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GHANA

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