FEED THE FUTURE

The U.S. Government's Global Hunger & Food Security Initiative

WEST AFRICA FERTILIZER BUSINESS INFORMATION MAP

2019

USAID FROM THE AMERICAN PEOPLE

CEDEAO ECOWAS

IFDC Developing Agriculture from the Ground Up

wafa West Africa Fertilizer Association
Association Régionale des Professionnels de l'Engrais

CONTENTS

April 2019

This publication is made possible by the generous support of the American people through the United States Agency for International Development (USAID) under the Feed the Future initiative. The contents are the responsibility of IFDC, compiled in collaboration with the West Africa Fertilizer Association (WAFA), and do not necessarily reflect the views of USAID or the United States Government.

Cover photo by Patrice Annequin

Photo: Patrice Annequin

INTRODUCTION

The ECOWAS fertilizer policy stresses the need to stimulate fertilizer supply and demand in the region. The USAID West Africa Fertilizer Program (USAID WAFP), implemented by the International Fertilizer Development Center (IFDC) between 2012 and 2017, furthered this goal through empowering private sector businesses operating in the region, by professionalizing and promoting sustainable business development models. This will be continued by the Feed the Future Enhancing Growth through Regional Agricultural Input Systems (EnGRAIS) for West Africa project, also implemented by IFDC. To accomplish these objectives, the program will focus on the following:

- Competitive, inclusive, private sector-led, regional fertilizer market strengthened;
- Comprehensive input packages developed and disseminated in cooperation with CORAF/WECARD;
- Fertilizer policy and regulatory systems across West Africa improved and harmonized in accordance with ECOWAS guidance;
- Mobilizing commitment and harmonizing engagement from key stakeholders across West Africa supported by mission buy-ins.

The program and its partners WAFA and AfricaFertilizer.org will cover all the ECOWAS member states plus Chad and Mauritania. However, the target countries are Nigeria, Burkina Faso, Côte d'Ivoire, Ghana, Mali, and Senegal – six countries that together consume more than 80 percent of the fertilizer used in West Africa.

The West Africa Fertilizer Business Information Map (WAFBIM) is a publication initially developed by USAID WAFP to present a regional overview of the fertilizer business environment. Its purpose is to furnish existing and prospective private sector players with the requisite fertilizer business and market information to guide and inform the industry's decision-making.

WAFBIM focuses on major business areas such as an overview of fertilizer production and blending facilities in West Africa, planned future fertilizer production, fertilizer fact sheets, regional fertilizer labeling and packaging standards, ECOWAS fertilizer regulations and the fertilizer supply chain in West Africa. WAFBIM is updated and published regularly in close collaboration with the West Africa Fertilizer Association (WAFA) which contributes and validates existing, current and new information.

FERTILIZER PRODUCTION AND BLENDING IN WEST AFRICA

OVERVIEW

This is a register of sixty-six (66) fertilizer plants comprising six (6) fertilizer production, one (1) micronutrient production, eleven (11) organic fertilizer and forty-eight (48) blending facilities known to be operational in West Africa through the end of 2017.

For the purpose of this register, the fertilizer plants are segmented into two categories:

- **Production:** Those who undertake mining and/or some type of chemical reaction to produce fertilizer. Typically, these are large specific product plants such as urea, ammonium nitrate, DAP and other NPK complex, etc.
- **Blending:** Those which mix macro- and micro-nutrient products to obtain a final product ready to use.

The register also lists micro-nutrient producers and includes a section on proposed projects either under construction or likely to be operational within the next five years.

The fertilizer industry details were collected through a registration survey jointly undertaken by the USAID West Africa Fertilizer Program (USAID WAFP), West Africa Fertilizer Association (WAFA) and AfricaFertilizer.org (AFO). The details were obtained in three main ways: directly from the listed companies by use of questionnaires, from company websites and secondary data from various fertilizer-oriented institutions.

Note: Capacities listed are nominal and not operational capacities.

Information on all plants listed in this register can be found on the AfricaFertilizer.org official website: http://www.africafertilizer.org/

PRODUCTION

There are six (6) fertilizer production plants in West Africa for nitrogen-based and phosphate-based fertilizers. Also included are plants producing organic fertilizers and micro-nutrients.

NITROGEN

Notore Chemicals Industries Ltd and Indorama Eleme Fertilizers & Chemicals Ltd, both in Rivers State, Nigeria, are currently the only plants producing urea and ammonia in West Africa.

PHOSPHATES

Several phosphate mines in West Africa extract phosphate rock but process the phosphate at a different level.

Industries Chimiques du Sénégal (ICS/Indorama) process phosphate rock to phosphoric acid and uses that in their plant in Mbao to produce DAP and TSP.

Toguna Agro Industries grinds and granulates the natural phosphate of Tilemsi for regional West Africa use, and *Société Nouvelle des Phosphates du Togo* (SNPT) exports all their production of phosphate rock abroad. Other phosphate rock extraction activities are done by *Société d'Études et de Réalisation des Phosphates de Matam* (SERPM) in Matam.

POTASH

There are no current manufacturers of potash in West Africa. There are 2 potash deposits that have been identified and are being considered for development.

Photo: Patrice Annequin

QUICK REFERENCE

PRODUCTION – NITROGEN

No.	Country	Plant Site	Company	Product	Year of Commissioning
1	Nigeria	Onne, Rivers State	Notore Chemical Industries Plc	Urea	1988
2	Nigeria	Port Harcourt	Indorama Eleme Fertilizers & Chemicals Ltd	Urea	2016

PRODUCTION – SOIL SUPPLEMENTS AND MICRO-NUTRIENTS

No.	Country	Plant Site	Company	Product	Year of Commissioning
1	Nigeria	Kaduna South	Cybernetics Nigeria Ltd	Micronutrients	1985

PRODUCTION – ORGANIC FERTILIZERS

No.	Country	Plant Site	Company	Product	Year of Commissioning
1	Benin	Allada	Bio Phyto	Organic fertilizers	2018
2	Burkina Faso	Ouagadougou	Faso Biogaz	Organic fertilizers	2018
3	Côte d'Ivoire	Adzopé	Éléphant Vert	Organic fertilizers	2018
4	Ghana	Adjen Kotoku	Accra Compost & Recycling Plant Ltd	Organic fertilizers	2018
5	Ghana	Ashaiman	Safisana	Organic fertilizers	2017
6	Ghana	Atomic	Green-Gro Ltd	Organic fertilizers	2018
7	Mali	Bamako	Orgafert	Organic fertilizers	2018
8	Mali	Bamako	PROFEBA	Organic fertilizers	2017
9	Mali	Ségou	Éléphant Vert	Organic fertilizers	2018
10	Senegal	Dakar	Éléphant Vert	Organic fertilizers	2018
11	Senegal	Dakar	SEDAB/Biotoss	Organic fertilizers	2018

PRODUCTION – PHOSPHATES

No.	Country	Plant Site	Company	Product	Year of Commissioning
1	Mali	Tilemsi	Toguna Agro Industries	Phosphate Rock	2007
2	Senegal	Dakar	Industries Chimiques du Sénégal (ICS)	Phosphate Rock, Phosphoric Acid, DAP, NPK, Gypsum	1976
3	Senegal	Dakar	Societe d'Études et de Réalisation des Phosphates (SERPM)	Phosphate Rock	2007
4	Togo	Kpémé	Société Nouvelle des Phosphates du Togo (SNPT)	Phosphate Rock	1961

BLENDING

No.	Country	Plant Site (Town/State)	Company	Year of Establishment
1	Burkina Faso	Bobo Dioulasso	Société de Commercialisation de Production Agricule et de Marchande (CIPAM SA)	2003
2	Côte d'Ivoire	Abidjan	Agro West Africa	2012
3	Côte d'Ivoire	Abidjan	Sea Invest	2013
4	Côte d'Ivoire	Abidjan	SOLEVO – Unit 1	2001
5	Côte d'Ivoire	Abidjan	SOLEVO – Unit 2	2015
6	Côte d'Ivoire	Abidjan	Yara Côte d'Ivoire	1990
7	Côte d'Ivoire	San Pedro	Société d'Engrais d'Amenagement et de Phytosanitaire de Côte d'Ivoire (SEAP CI)	2011
8	Ghana	Kpong	MacroFertil Ghana	2013
9	Ghana	Teacher Mantey	Glofert	2018
10	Ghana	Tema	Chemico Ltd	2004
11	Ghana	Tema	OmniFert	2017
12	Ghana	Tema	Yara Ghana Ltd	2007
13	Guinea	Conakry	Toguna Guinea Industries	2016
14	Mali	Ségou	Doucouré Partenaire Agricole	2011
15	Mali	Sikasso	Société Générale des Fertilisants (SOGEFERT)	2010
16	Mali	Tilemsi	Toguna Agro Industries	2000
17	Nigeria	Aba Abia State	Edusquare & Company Nigeria Ltd	1998
18	Nigeria	Akwa-Ibom	Greenwell Technologies Ltd	2010
19	Nigeria	Aleto-Eleme, Rivers State	PrimeGold Fertilizers	2009
20	Nigeria	Auchi	Edo State Fertilizer Blending Company	2003
21	Nigeria	Auchi, Edo State	WACOT Ltd	2003
22	Nigeria	Bauchi	Bauchi Fertilizer Blending Company Ltd	1999
23	Nigeria	Benue State	Sora Fertilizer & Chemicals	1985
24	Nigeria	Birnin-Kebbi	Albarka Fertilizer & Chemical Company Ltd	2018
25	Nigeria	Bokkos, Jos	Bejafta Fertilizer & Chemical Company Ltd	1998
26	Nigeria	Gombe	Gombe Fertilizer Blending Plant	2001
27	Nigeria	Gombe State	Springfield Agro Ltd	2000
28	Nigeria	Gusau	Al-Yuma Fertilizers & Chemicals Company Ltd	2018
29	Nigeria	Gusau	Zamfara State Fertilizer Blending Plant	1998
30	Nigeria	Jigawa State	Abdullazeez Fertilizer Company Ltd	2011
31	Nigeria	Kaduna	Federal Superphosphate	1988
32	Nigeria	Kaduna	Fertilizer & Chemicals Ltd	1988
33	Nigeria	Kaduna	Golden Fertilizer Company Ltd	2018
34	Nigeria	Kaduna	MFB Fertilizer & Chemical Companies Ltd	2013
35	Nigeria	Kano	Al-Yuma Fertilizers & Chemicals Company Ltd	2017
36	Nigeria	Kano	Citizen Fertilizers & Chemicals Company Ltd	2005
37	Nigeria	Kano	Namalale Fertilizer & Chemical Company Ltd	2017
38	Nigeria	Kano	Sasisa Fertilizer Nigeria Ltd	1999
39	Nigeria	Kano State	Continental Fertilizer Ltd	2009
40	Nigeria	Kano State	Kano State Input Supply Company	1980
41	Nigeria	Kano State	Solar Fertilizer & Chemical Product Ltd	2016
42	Nigeria	Katsina	Funtua Fertilizers & Chemicals	1988
43	Nigeria	Lagos	Golden Fertilizer Company Ltd	1998
44	Nigeria	Niger State	Morris Fertilizers & Chemicals	1988
45	Nigeria	Onuebonyi-Izzi, Abakaliki	Ebonyi State Fertilizer & Chemical Company Ltd	2004
46	Nigeria	Sokoto	Alelawa Fertilizer & Chemical Company Ltd	2013
47	Nigeria	Zungeru	Crystallizer Nigeria Ltd	1996
48	Togo	Lomé	Compagnie des Intrants Agricoles du Togo (CIAT)	2011

FUTURE PROJECTS

#	Country	Plant Site	Company	Expected Operational Status
1	Burkina Faso	Bobo Dioulasso	Faso Fert	2019
2	Burkina Faso	Bobo Dioulasso	Tropic Agro Chem	2019
3	Côte d'Ivoire	Abidjan	OCP Africa	Build: 2018, Operating: 2019
4	Côte d'Ivoire	Yamoussoukro	Ivoire Formulation	2019
5	Ghana	Tema	New Blender*	2019 (Q4)
6	Mali	Bourem	Sangoye (Great Quest Fertilizer)	2019
7	Niger	Dosso	SOAPAM SA	2019 (Q1)
8	Nigeria	3rd site under investigation	OCP Africa	Build: 2018, Operating: 2019
9	Nigeria	Abuja	New Blender*	2019 (Q4)
10	Nigeria	Abuja	New Blender*	2019 (Q4)
11	Nigeria	Abuja	New Blender*	2019 (Q4)
12	Nigeria	Bayelsa	Brass Fertilizer	2020 (Q1)
13	Nigeria	Kaduna	New Blender*	2019 (Q4)
14	Nigeria	Kaduna	OCP Africa	Build: 2018, Operating: 2019
15	Nigeria	Km 3 Dubin Dutse, Zaria, Kaduna	Matrix Fertilizer Ltd	2019
16	Nigeria	Lafia	Nasarawa Blending Plant	2019
17	Nigeria	Lagos	New Blender*	2019 (Q4)
18	Nigeria	Lagos, Lekki	Dangote Fertilizer	2017
19	Nigeria	Near Gusau	New Blender*	2019 (Q4)
20	Nigeria	Near Kano	New Blender*	2019 (Q4)
21	Nigeria	Near Kano	New Blender*	2019 (Q4)
22	Nigeria	Near Okene	New Blender*	2019 (Q4)
23	Nigeria	Near Zaria	New Blender*	2019 (Q4)
24	Nigeria	Ogun	OCP Africa	Build: 2018, Operating: 2019
25	Nigeria	Onne, Rivers State	Notore Chemicals	2018
26	Nigeria	Port Harcourt	New Blender*	2019 (Q4)
27	Senegal	Dakar	Amafrique SUARL	2019 (Q4)
28	Senegal	Dakar	TSE	–
29	Sierra Leone	Freetown	Mangara Agribusiness Company	2019

** Company name to be disclosed on completion.*

PRODUCTION


Industries Chimiques du Sénégal, Société d'Études et de Réalisation des Phosphates de Matam (SERPM), Élephant Vert Sénégal, SEDAB/Biotoss
PROFEBA, OrgaFert
Éléphant Vert Mali
Toguna Agro Industries
Faso Biogaz
Éléphant Vert Côte d'Ivoire
NOUAKCHOTT
Port of Nouakchott
MAURITANIA
Saint-Louis
Rosso
Kaédi
'Ayoûn el 'Atroûs
Néma
Tombouctou
Tilemsi
MALI
DAKAR
Port of Dakar
Thiès
Louga
Linguère
Touba
Diourbel
Kaffrine
Kaolack
SENEGAL
Kayes
Mopti
BANJUL
Port of Banjul
Brikama
Tambacounda
Ségou
BAMAKO
Koutiala
OUAGADOUGOU
Mansôa
Bafatá
Koundâra
BISSAU
Port of Bissau
GAMBIA
GUINEA-BISSAU
Boké
Kindia
Dabola
Bougouni
Sikasso
Bobo-Dioulasso
Tumu
Wa
Nav
CONAKRY
Port of Conakry
GUINEA
Kankan
Kérouané
Boundiali
Bole
FREETOWN
Port of Freetown
SIERRA LEONE
Bo
Bonthe
Nzérékoré
Bouaké
Gbarnga
Man
YAMOUSSOUKRO
Daloa
Kumasi
CÔTE D'IVOIRE
MONROVIA
Port of Monrovia
LIBERIA
Buchanan
Abidjan
Cape Coast
San Pedro
Sassandra
Takoradi
Port of San Pedro
Port of Abidjan
Port of Takoradi
Mindelo
CAPE VERDE
PRAIA
ATLANTIC OCEAN
Number of fertilizer production plants operating at this location
Capital
City/town
Major port
Minor port
Country frontiers
Trade corridor
Roadway
Railway
Rivers, lakes
Sub-region limit


Société Nouvelle des Phosphates du Togo (SNPT)
Cybernetics Nigeria Ltd
Bio Phyto
Indorama Eleme Petrochemicals Ltd, Notore Chemical Industries Ltd
Accra Compost & Recycling, Green-Gro, Safisana
NIAMEY
LOMÉ
PORTO NOVO
ACCRA
ABUJA
MALABO
YAOUNDÉ
N'DJAMENA
NIGERIA
CAMEROON
NIGER
CHAD
Agadez
Gao
Tahoua
Zinder
Maradi
Diffa
Moussoro
Dosso
Birnin Kebbi
Sokoto
Katsina
Nguru
Koupéla
Fada N'Gourma
Potiskum
Maiduguri
Kano
Malanville
Cinkassé
Kandi
Zaria
Suleja
Kaduna
Gombe
Bauchi
Maroua
Bongor
Mango
Djougou
Parakou
Jos
Minna
Kwakuti
Tamale
Sokodé
Tchaourou
Savalou
Ilorin
Doba
Moundou
Lokoja
Makurdi
Ibadan
Okpella
Ngaoundéré
Enugu
Lagos
Benin City
Calabar
Port Harcourt
Bertoua
Buea
Douala
Edéa
Kribi
Port of Tema
Port of Lomé
Port of Cotonou
Port of Lagos
Port of Port Harcourt
Port of Malabo
Port of Douala
1
2
3

PRODUCTION PROFILES

BENIN

ALLADA — **BIO PHYTO**

Products: Organic Fertilizer
Capacity: 8 mtph – 64 mtpd – 15,000 mtpy
Year established: 2018
Contact: **Zodomè Gildas**
+229 97 41 19 83
zodomegildas@biophyto-benin.com

BURKINA FASO

OUAGADOUGOU — **FASO BIOGAZ**

Products: Organic Fertilizer (Biodigester)
Capacity: Unknown
Year established: 2018
Contact: **Emile Yao**
Director of Operations
+226 78 11 09 50
eyao@fasobiogaz.com

CÔTE D'IVOIRE

ADZOPÉ — **ÉLÉPHANT VERT**

Products: Organic Fertilizer (Industrial composting)
Capacity: 25,000 mtpy
Year established: 2018
Contact: **Jacques Hommes**
General Director
+225 21 20 93 09
jacques.hommes@elephant-vert.com

GHANA

ADJEN KOTOKU — **ACCRA COMPOST & RECYCLING PLANT LTD**

Products: Organic Fertilizer
Capacity: Unknown
Year established: 2018
Contact: +233 24 49 45 713
info@acarpghana.com

ATOMIC — **GREEN-GRO LTD**

Products: Organic Fertilizer
Capacity: Unknown
Year established: 2018
Contact: **Genevieve Serwaa Senya**
+233 30 28 02 169
genevieve@green-grogh.com

ASHAIMAN — **SAFISANA**

Products: Organic Fertilizer
Capacity: Unknown
Year established: 2017
Contact: **Raymond Okrofu**
+233 261 49 66 85
raymond.okrofu@safisana.org

MALI

SÉGOU — **ÉLÉPHANT VERT**

Products: Organic Fertilizer
Capacity: 50,000 mtpy
Year established: 2018
Contact: **Sidibé Oumou Vanhoorebeke**
General Director
+223 20 22 08 04
oumou.vanhoorebeke@elephantvert.ch

BAMAKO — **ORGAFERT**

Products: Organic Fertilizer
Capacity: Unknown
Year established: 2018
Contact: **Sidibé Oumou Diallo**
General Director
+223 65 50 75 75, +223 79 19 02 51
orgafertmali@yahoo.com

BAMAKO — **PROFEBA**

Products: Organic Fertilizer
Capacity: 4,000 mtpy
Year established: 2017
Contact: **Adama Moussa Dembélé**
Coordinator
+233 20 21 00 40, +233 69 83 37 43
adamsdembele1@yahoo.fr

TILEMSI — **TOGUNA AGRO INDUSTRIES**

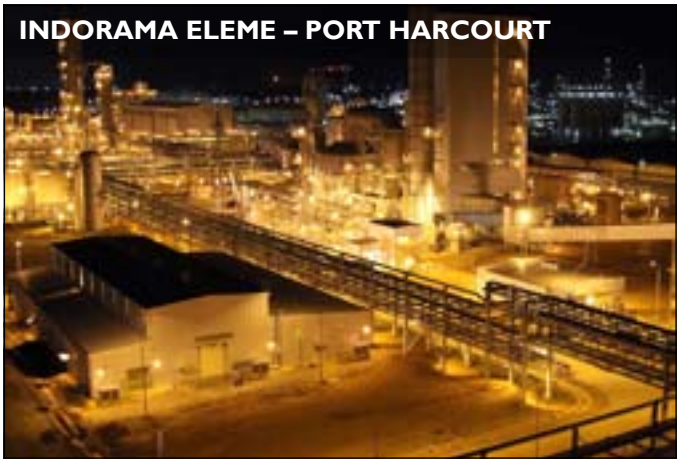
Products: Phosphate Rock, NPK
Capacity: Phosphate Rock 300,000 mtpy
Storage capacity: 10,000 mt raw material;
10,000 mt finished product
Year established: 2007
Contact: **Oumar Guindo**
Director General
+223 66 74 00 60, +223 20 20 30 81/85
omguindo@groupetoguna.com

NIGERIA

KADUNA SOUTH — **CYBERNETICS NIGERIA LTD**

Products: Micronutrients
Capacity: 2,500 mtpy
Storage capacity: 850 mt raw material; 1,500 mt finished product
Year established: 1985
Contact: **Pius Kole-James**
Managing Director and CEO
+234 80 53 15 88 52
piuskolejames@yahoo.com

INDORAMA ELEME – PORT HARCOURT



PORT HARCOURT — **INDORAMA ELEME FERTILIZERS & CHEMICALS LTD**

Products: Urea
Capacity: 1,500,000 mtpy
Year established: 2013
Contact: **Dr. Balby**
Head BD and Agronomy
+234 90 87 07 00 09
basingh@indorama.com.ng

NOTORE CHEMICAL INDUSTRIES – ONNE

ONNE, RIVERS STATE — **NOTORE CHEMICAL INDUSTRIES PLC**

Products: Urea
Capacity: 400,000 mtpy
Year established: 1988 as NAFCON, 2005 as Notore
Contact: **Ngozi Mba**
Head, Corporate Communications
+234 80 53 39 12 15
ngozi.mba@notore.com

SENEGAL

DAKAR — **ÉLÉPHANT VERT**

Products: Organic Fertilizers (Composting)
Capacity: 10,000 mtpy
Year established: 2018
Contact: **René Bajikile Matala**
General Director
+221 78 177 74 45
rene.bajikile-matala@elephantvert.com

DAKAR — **INDUSTRIES CHIMIQUES DU SÉNÉGAL (ICS) (INDORAMA CORPORATION)**

Products: Phosphate Rock, Phosphoric Acid, DAP, NPK, Gypsum
Capacity: 250,000 mtpy
Year established: 1976
Contact: **Abdoulaye Dièye**
Head of Fertilizer Sales
+221 776 446 467
abdieye@ics.sn

DAKAR — **SEDAB/BIOTOSS**

Products: Organic Fertilizers
Capacity: 10,000 mtpy
Year established: 2018
Contact: **Souleymane Diop**
Technical Advisor
+221 77 644 95 89
sodiop@hotmail.fr

DAKAR — **SOCIETE D'ÉTUDES ET DE RÉALISATION DES PHOSPHATES (SERPM)**

Products: Phosphate Rock
Capacity: 25,000 mtpy
Year established: 2007
Contact: **Eugene Ngor Faye**
Director
+221 338 25 69 00
serpm@orange.sn

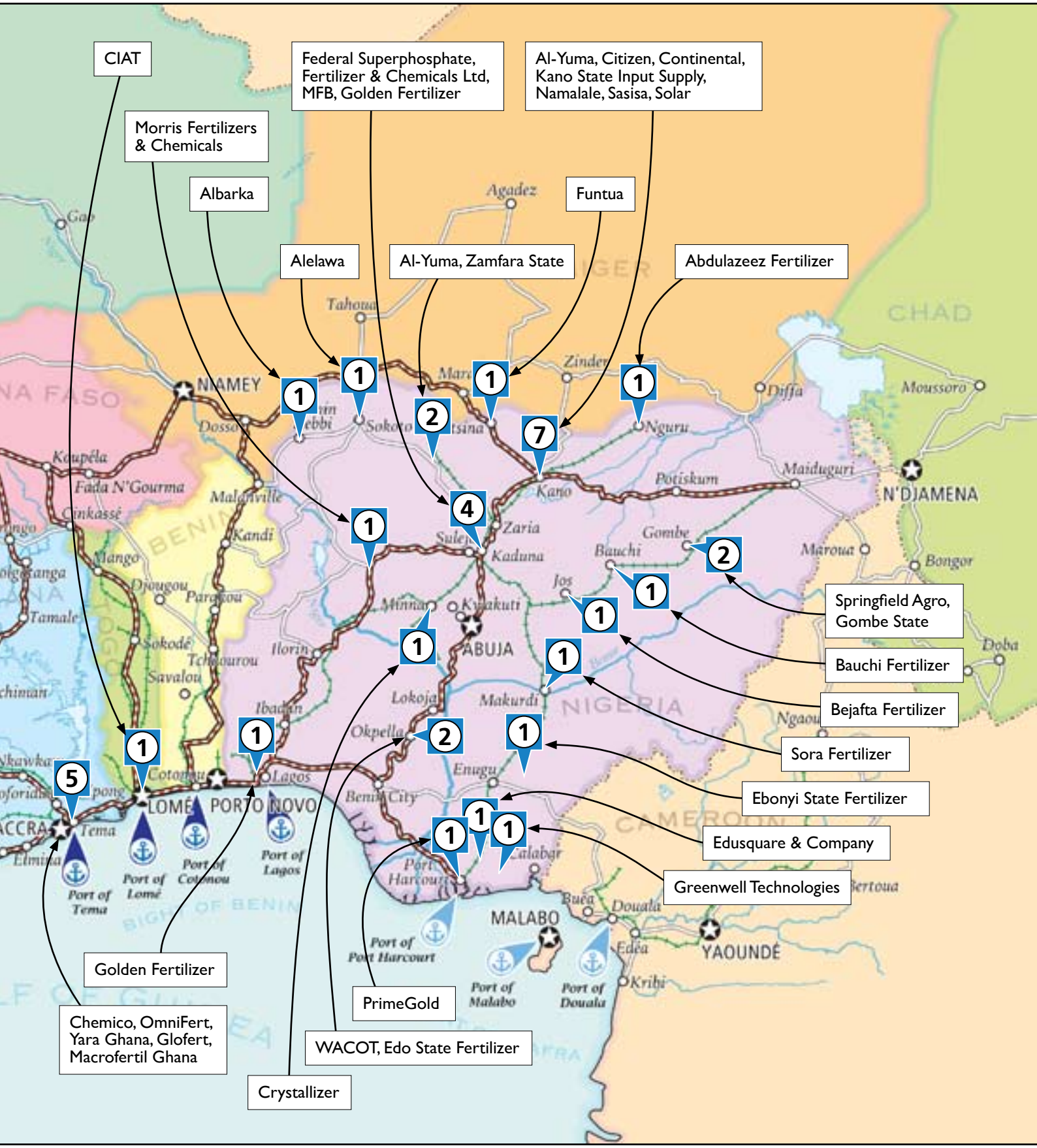
TOGO

KPÉMÉ — **SOCIÉTÉ NOUVELLE DES PHOSPHATES DU TOGO (SNPT)**

Products: Phosphate Rock
Capacity: 4,800,000 mtpy
Year established: 1961
Contact: **Michel Kezie**
Director General
+228 90 04 07 96
dg@phosphatesdutogo.com

BLENDING


Doucouré Partenaire Agro-Industries
CIPAM SA
SOGEFERT
Toguna Agro Industries
NOUAKCHOTT
Port of Nouakchott
MAURITANIA
MALI
'Ayoûn el 'Atroûs
Néma
Tombouctou
Tilemsi
Saint-Louis
Rosso
Kaédi
Louga
SENEGAL
Linguère
Touba
DAKAR
Diourbel
Thiès
Kaffrine
Port of Dakar
Kaolack
Kayes
Mopti
Ségou
BANJUL
Brikama
Tambacounda
BAMAKO
Koutiala
OUAGADOUGOU
Port of Banjul
Mansôa
Bafatá
Koundâra
BISSAU
Port of Bissau
Bougouni
Sikasso
Bobo-Dioulasso
GAMBIA
Boké
Kindia
Dabola
Kankan
GUINEA-BISSAU
GUINEA
CONAKRY
Port of Conakry
Koulikoro
Boundiali
Bole
SIERRA LEONE
FREETOWN
Bo
Nzérékoré
Bouaké
Port of Freetown
Bonthe
Gbarnga
Man
YAMOUSSOUKRO
Daloa
Kumasi
Mindelo
CAPE VERDE
PRAIA
MONROVIA
Buchanan
Port of Monrovia
San Pedro
Sassandra
Abidjan
Cape Coast
Takoradi
Port of San Pedro
Port of Abidjan
Port of Takoradi
Toguna Guinea Industries
SEAP-CI
Agro West Africa, SOLEVO Unit 1 & 2, Sea Invest, Yara Côte d'Ivoire
Number of fertilizer blending plants operating at this location
Capital
City/town
Major port
Minor port
Country frontiers
Trade corridor
Roadway
Railway
Rivers, lakes
Sub-region limit


CIAT
Federal Superphosphate, Fertilizer & Chemicals Ltd, MFB, Golden Fertilizer
Al-Yuma, Citizen, Continental, Kano State Input Supply, Namalale, Sasisa, Solar
Morris Fertilizers & Chemicals
Albarka
Funtua
Alelawa
Al-Yuma, Zamfara State
Abdulazeez Fertilizer
Springfield Agro, Gombe State
Bauchi Fertilizer
Bejafta Fertilizer
Sora Fertilizer
Ebonyi State Fertilizer
Edusquare & Company
Greenwell Technologies
Golden Fertilizer
Chemico, OmniFert, Yara Ghana, Glofert, Macrofertil Ghana
PrimeGold
WACOT, Edo State Fertilizer
Crystallizer
NIAMEY
LOMÉ
PORTO NOVO
ABUJA
MALABO
YAOUNDÉ
N'DJAMENA
Port of Tema
Port of Lomé
Port of Cotonou
Port of Lagos
Port of Port Harcourt
Port of Malabo
Port of Douala

BLENDING PROFILES

BURKINA FASO

BOBO DIOULASSO

SOCIÉTÉ DE COMMERCIALISATION DE PRODUCTION AGRICOLE ET DE MARCHANDE (CIPAM SA)

Type of plant: EMT Blender
Capacity: 60 mtph
Year established: 2003
Contact: **Bassolet Armand**
Operations Manager
+226 78 03 61 10, +226 20 98 40 61
armandb@cipam.bf

CÔTE D'IVOIRE

ABIDJAN

AGRO WEST AFRICA

Type of plant: RS Trading Blender
Capacity: 50 mtph
Year established: 2012
Contact: **Koffi Brice**
Head of Fertilizer Department
+225 78 45 10 70
production@agrowestafrica.com

ABIDJAN

SEA INVEST

Type of plant: CF Technologie Blender
Capacity: 100 mtph
Year established: 2013
Contact: **Anthony Arcidiaco**
General Manager
+225 21 21 85 00
anthony.arcidiaco@sea-invest.com

SAN PEDRO

SOCIÉTÉ D'ENGRAIS D'AMENAGEMENT ET DE PHYTOSANITAIRE DE CÔTE D'IVOIRE (SEAP CI)

Type of plant: EMT Blender
Capacity: 40 mtph
Year established: 2011
Contact: **Atse Fernand Niango**
Head of Development and Commercial
+225 07 79 80 86
fniango@seap-ci.net

ABIDJAN

SOLEVO – UNIT 1

Type of plant: Blender
Capacity: 25 mtph
Year established: 2001

SOLEVO – UNIT 2

Type of plant: Blender
Capacity: 25 mtph
Year established: 2015
Contact: **Frédéric Legros**
Head of Agro Department
+225 09 95 85 96, +225 21 21 55 50
frederic.legros@solevogroup.com

ABIDJAN

YARA CÔTE D'IVOIRE

Type of plant: Blender EMT 9T – Bagging Janodet
Capacity: 1,440 mtpd
Year established: 1990
Contact: **Pablo Kamgang**
Regional Operations Manager FWA
+225 64 35 88 15
pablo.kamgang@yara.com

GHANA

TEMA — **CHEMICO LTD**

Type of plant: 2 EMT Blenders
Capacity: 1,000 mtpd
Year established: 2007
Contact: **Prince Agyemang Yeboah**
Director of Sales and Marketing
+233 303 202 991
chemico@chemicogh.com

TEACHER MANTE — **GLOFERT**

Type of plant: EMT Blender
Capacity: 1,400 mtpd
Year established: 2018
Contact: **Francis Dei**
Vice President – Operations
+233 242 022 517
francis.dei@glofert.com

KPONG — **MACROFERTIL GHANA**

Type of plant: EMT Blender
Capacity: 300 mtpd
Year established: 2013
Contact: **Ms. Mawunyo Puplampu**
Operations Manager
+233 540 107 262
mawunyo.puplampu@ldcom.com

TEMA — **OMNIFERT**

Type of plant: Bulk Blender
Capacity: 500 mtpd
Year established: 2017
Contact: **Michael Zormelo**
Managing Director
+233 243 802 228
michael@ominfert.com

TEMA

YARA GHANA LTD

Type of plant: Bulk Blender
Capacity: 1,000 mtpd
Year established: 2007
Contact: **Danquah Addo-Yobo**
Managing Director
+233 540 112 137, +233 302 770 079
danquah.addo-yobo@yara.com

GUINEA

CONAKRY

TOGUNA GUINEA INDUSTRIES

Type of plant: Blender
Capacity: 90 mtph
Year established: 2016
Contact: **Sékou Cissé**
Directeur Général
+224 620 727 772, +224 664 256 221
togunaguinee@gmail.com

MALI

SÉGOU

DOUCOURÉ PARTENAIRE AGRO INDUSTRIES (DPA)

Type of plant Blender
Capacity: 120 mtph
Year established: 2011
Contact: **Fatoumata Binta Doucouré**
Financial Manager
+223 20 21 69 06, +223 66 16 80 17
fdoucoure@dpa-industries.com

SIKASSO

SOCIÉTÉ GÉNÉRALE DES FERTILISANTS (SOGEFERT)

Type of plant: Layco by Yargus – Declining Weight Blender
Capacity: 1,000 mtpd
Year established: 2010
Contact: **Ousmane Sidibe**
CEO
+223 76 40 31 15
ousmane.sibide@gmail.com

TILEMSI

TOGUNA AGRO INDUSTRIES

Type of plant: Blender
Capacity: 90 mtph
Year established: 2000
Contact: **Oumar Guindo**
General Manager
+223 66 74 00 60, + 223 20 20 30 81/85
omguindo@groupetoguna.com

NIGERIA

JIGAWA STATE

ABDULLAZEEZ FERTILIZER COMPANY LTD

Type of plant: NPK Blender
Capacity: 6 mtph
Year established: 2011
Contact: **Safiyanu Abdullazeez**
Managing Director
+234 80 33 69 30 01
azeezfertilizercoy@gmail.com

GUSAU

AL-YUMA FERTILIZERS & CHEMICALS COMPANY LTD

Type of plant: Blending Plant
Capacity: 30 mtph
Year established: 2018
Contact: **Abubakar Musa Mainaira**
General Manager
+234 80 65 46 27 27
abubakarmainaira@gmail.com

KANO

AL-YUMA FERTILIZERS & CHEMICALS COMPANY LTD

Type of plant: Blending Plant
Capacity: 45 mtph
Year established: 2017
Contact: **Ado Yazid Ibrahim**
Director
+234 80 93 17 19 00
info@alyuma-group.com

BIRNIN-KEBBI

ALBARKA FERTILIZER & CHEMICAL COMPANY LTD

Type of plant: Bagtech
Capacity: 50 mtph
Year established: 2018
Contact: **Engr. Mohammen Zauro**
Chairman
+234 80 35 89 85 00
zauromohammed@gmail.com

SOKOTO

ALELAWA FERTILIZER & CHEMICAL COMPANY LTD

Type of plant: Blending Plant
Capacity: 20 mtph
Year established: 2013
Contact: **Alh. Suleiman Abubakar Fana**
Managing Director
+234 80 67 78 63 91
alelawaglobal@yahoo.com

BAUCHI

BAUCHI FERTILIZER BLENDING COMPANY LTD

Type of plant: Blending Plant
Capacity: 25 mtph
Year established: 1999
Contact: **Bappa Aliyu Misau**
Chairman
+234 80 33 46 84 70
bappamaliyu@gmail.com

BOKKOS, JOS

BEJAFTA FERTILIZER & CHEMICAL COMPANY LTD

Type of plant: Blending Plant
Capacity: 50 mtph
Year established: 1998
Contact: **Hon. Jacob Mallo**
Managing Director and CEO
+234 81 84 88 11 14
jacobmallo@yahoo.com

KANO

CITIZEN FERTILIZERS & CHEMICALS COMPANY LTD

Type of plant: Blending Plant
Capacity: 30 mtph
Year established: 2005
Contact: **Haris B. Haris**
General Manager
+234 80 37 05 33 67
harisbharis39@gmail.com

KANO STATE

CONTINENTAL FERTILIZER LTD

Type of plant: Bulk Blender
Capacity: 90 mtph
Year established: 2009
Contact: **Alhaji Ibrahim Mohammed**
CEO
+234 70 33 07 31 11
continentalfertilizerlimited@gmail.com

ZUNGERU

CRYSTALLIZER NIGERIA LTD

Type of plant: Blending Plant
Capacity: 10 mtph
Year established: 1996
Contact: **Capt. Mohammed M. Musa**
Managing Director
+234 80 33 74 18 81
crystallizernigltd@yahoo.com

ONUEBONYI-IZZI, ABAKALIKI

EBONYI STATE FERTILIZER & CHEMICAL COMPANY LTD

Type of plant: Bulk Blender
Capacity: 40 mtph
Year established: 2004
Contact: **Engr. Prof. Ogbonnaya Chukwu**
General Manager
+234 80 35 50 79 29
chuogbo@yahoo.com

AUCHI

EDO STATE FERTILIZER BLENDING COMPANY

Type of plant: Blending Plant
Capacity: 13 mtph
Year established: 2003
Contact: **Ukhun Iyere Osehie**
General Manager
+234 80 33 75 18 85
ukhun.osehie@clicktgi.net

ABA ABIA STATE

EDUSQUARE & COMPANY NIGERIA LTD

Type of plant: Blending Plant
Capacity: 60 mtph
Year established: 1998
Contact: **Mr. Edu Ogbonnaya**
Managing Director
+234 80 33 22 72 57
edusquarecom@yahoo.com,
richfieldfertilizer@gmail.com

KADUNA **FEDERAL SUPERPHOSPHATE**

Type of plant: AJ Sackett Gravity Blender
Capacity: 150 mtph
Year established: 1988
Contact: **Danjuma Etuh**
+234 80 23 07 55 28
danjuma@sfcnig.com

KADUNA **FERTILIZER & CHEMICALS LTD**

Type of plant: Bulk Blender
Capacity: 200 mtph
Year established: 1988
Contact: **O. M. Pandya**
General Manager
+234 80 37 02 05 21
ompandya@gmail.com

KATSINA **FUNTUA FERTILIZERS & CHEMICALS**

Type of plant: Blending Plant – Denmark Technology
Capacity: 18 mtph
Year established: 2003
Contact: **Alhaji Hafis Mohammad Bashir**
General Manager
+234 80 37 03 78 74
hafmoh2000@yahoo.co.uk

KADUNA **GOLDEN FERTILIZER COMPANY LTD**

Type of plant: Blending Plant
Capacity: 8 mtph
Year established: 2018
Contact: **Engr. Olusegun I. Falade**
Head, Agro Input
+234 81 13 39 44 72
sfalade@fmnplc.com

LAGOS **GOLDEN FERTILIZER COMPANY LTD**

Type of plant: Sackett Vertical and Horizontal Blenders
Capacity: 200 mtph
Year established: 1998
Contact: **Olusegun Falade**
Head, Agro Input
+234 81 13 39 44 72
sfalade@fmnplc.com

GOMBE **GOMBE FERTILIZER BLENDING PLANT**

Type of plant: Blending Plant
Capacity: 18 mtph
Year established: 2001
Contact: **Jagdish Pandey**
Managing Director
+234 70 19 98 01 13
jagdish@springfieldagro.com

AKWA-IBOM **GREENWELL TECHNOLOGIES LTD**

Type of plant: Blending Plant
Capacity: 90 mtph
Year established: 2019
Contact: **Johnny S. Udo**
Managing Director
+234 80 64 44 74 05
judo@greenwelltechnologies.com

KANO STATE **KANO STATE INPUT SUPPLY COMPANY**

Type of plant: Tower Blender
Capacity: 120 mtph
Year established: 1981
Contact: **Bala Inuwa**
Managing Director and CEO
+234 80 39 46 24 22
kascokano@gmail.com

KADUNA — **MFB FERTILIZER & CHEMICAL COMPANY LTD**

Type of plant: Ranco Blender
Capacity: 90 mtph
Year established: 2013
Contact: **Mohammed Maina**
Assistant General Manager
+234 80 33 11 40 24, +234 80 99 28 00 98
maimoha@yahoo.com

NIGER STATE — **MORRIS FERTILIZERS & CHEMICALS**

Type of plant: Bulk Blender
Capacity: 150 mtph
Year established: 1988
Contact: **Emmanuel Fom**
General Manager
+234 80 33 14 69 23

KANO — **NAMALALE FERTILIZER & CHEMICAL COMPANY LTD**

Type of plant: Blending Plant
Capacity: 5 mtph
Year established: 2017
Contact: **Umar Shehu Musa**
General Manager
+234 80 67 67 67 45

ALETO-ELEME, RIVERS STATE — **PRIMEGOLD FERTILIZERS**

Type of plant: NPK Blender
Capacity: 50 mtph
Year established: 2009
Contact: **Felix Isimepkeni Okonti**
Managing Director and CEO
+234 80 33 00 80 36, +234 81 73 00 80 36
felix@primegoldfertilizers.com

KANO — **SASISA FERTILIZER NIGERIA LTD**

Type of plant: Blending Plant
Capacity: 15 mtph
Year established: 1999
Contact: **Dr. Surajo Muhammed**
Chairman
+234 80 65 67 36 42
sasisanigltd91@yahoo.com

KANO STATE — **SOLAR FERTILIZER & CHEMICAL PRODUCT LTD**

Type of plant: NPK Blender
Capacity: 7 mtph
Year established: 2016
Contact: **Sanusi Mohammed**
Managing Director and CEO
+234 80 37 03 95 73
sfchemproduct@gmail.com

BENUE STATE — **SORA FERTILIZERS & CHEMICALS**

Type of plant: Blending Plant
Capacity: 10 mtph
Year established: 1985
Contact: **Robert Orya**
Managing Director and CEO
+234 80 93 74 05 55
robertorya@yahoo.com

GOMBE STATE — **SPRINGFIELD AGRO LTD**

Type of plant: NPK Blender
Capacity: 2 mtph
Year established: 2000
Contact: **Mr. Tarun Das**
Managing Director and CEO
+234 70 12 99 99 99
tarun@afriventures.com

AUCHI, EDO STATE — **WACOT LTD**

Type of plant: Blender
Capacity: 7 mtph
Year established: 2003 (reactivated in 2017)
Contact: **Pankaj Chawla**
Head Agric Inputs
+234 90 99 70 99 04, +234 70 64 01 64 49
pankaj@clicktgi.net

GUSAU — **ZAMFARA STATE FERTILIZER BLENDING PLANT**

Type of plant: Blending Plant
Capacity: 35 mtph
Year established: 1998
Contact: **Mustapha Muhammadu**
Managing Director
+234 80 35 89 63 70
ankamustafa@yahoo.com, mustafaanka9@gmail.com

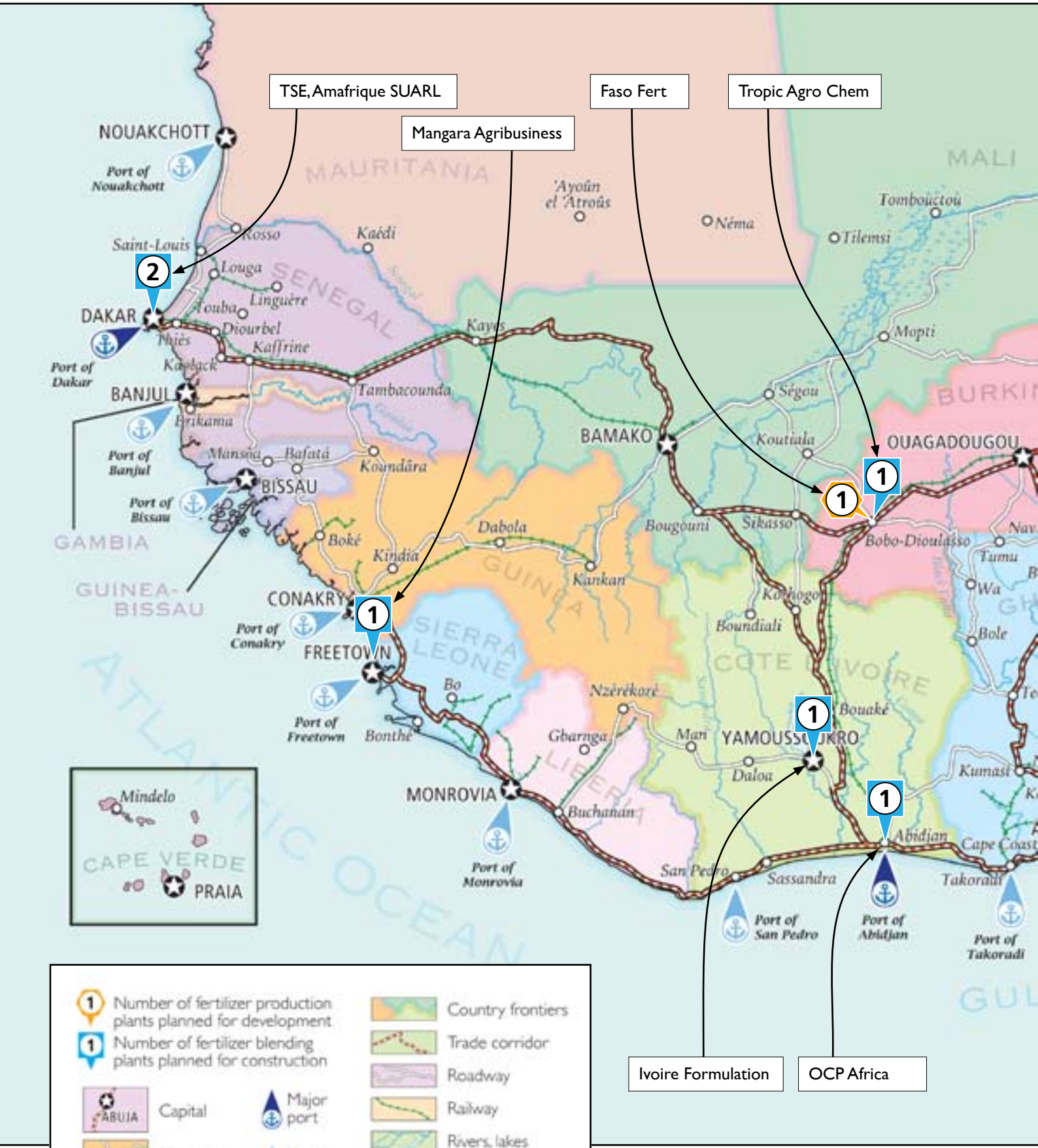
TOGO

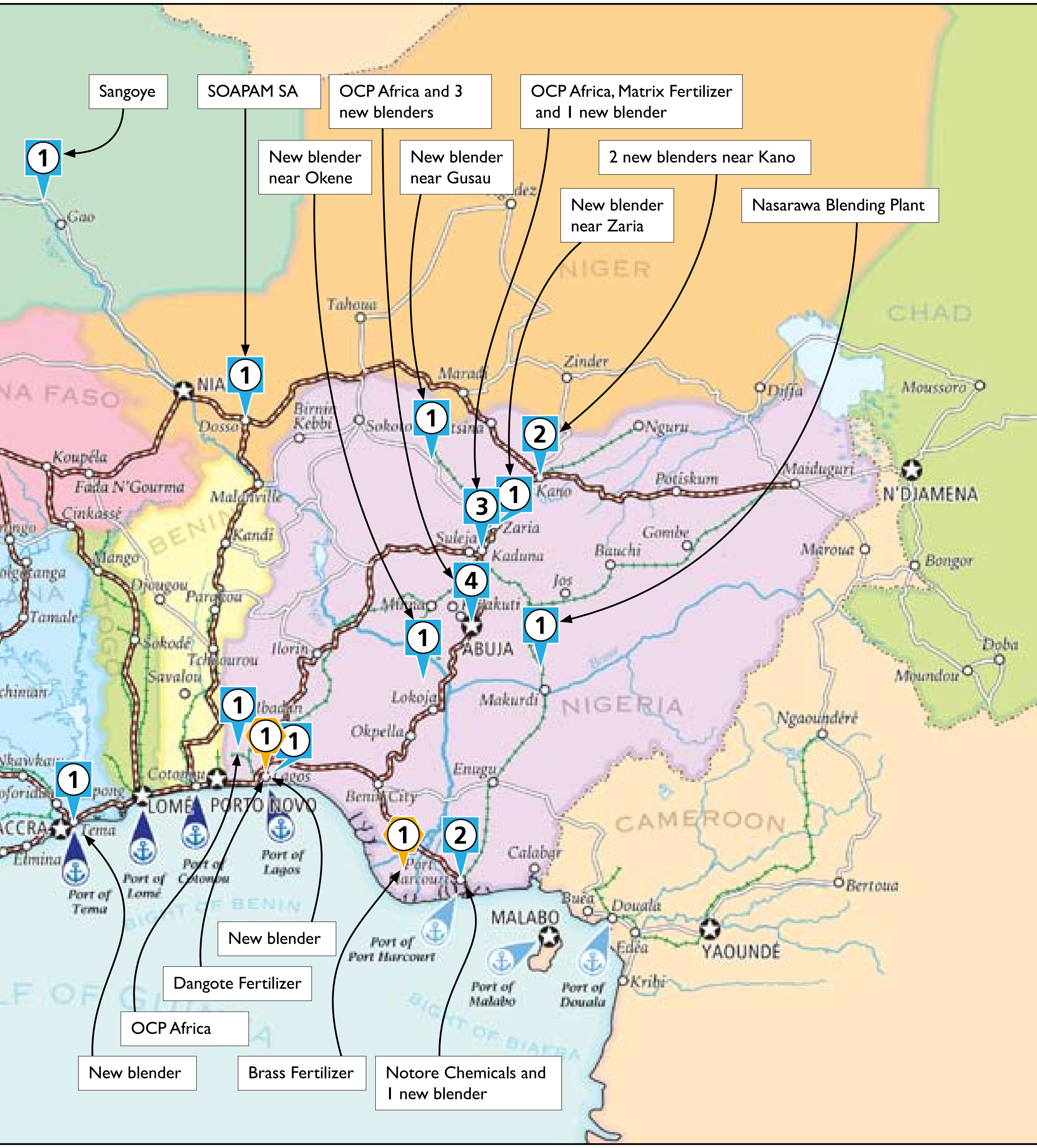
LOMÉ — **COMPAGNIE DES INTRANTS AGRICOLES DU TOGO (CIAT)**

Type of plant: EMT Blender
Capacity: 120 mtph
Year established: 2011
Contact: **Desanti Gerard**
General Director
+228 90 04 64 24
desantigerard@yahoo.fr; desanti@ciat.tg

Photo: Patrice Annequin

FUTURE PROJECTS




Sangoye
SOAPAM SA
OCP Africa and 3 new blenders
OCP Africa, Matrix Fertilizer and 1 new blender
New blender near Okene
New blender near Gusau
2 new blenders near Kano
New blender near Zaria
Nasarawa Blending Plant
New blender
Dangote Fertilizer
OCP Africa
New blender
Brass Fertilizer
Notore Chemicals and 1 new blender
Gao
NIGER
Tahoua
Maradi
Zinder
Diffa
CHAD
Moussoro
N'DJAMENA
Dosso
Birnin Kebbi
Sokoto
Nguru
Kano
Potiskum
Maiduguri
Zaria
Kaduna
Suleja
Bauchi
Gombe
Jos
Maroua
Bongor
ABUJA
Makurdi
NIGERIA
Lokoja
Okpella
Ilorin
Ibadan
Enugu
Benin City
Calabar
CAMEROON
Ngaoundéré
Doba
Moundou
Bertoua
Buea
Douala
Edéa
Kribi
YAOUNDÉ
MALABO
Port of Malabo
Port of Douala
Port of Port Harcourt
Port of Lagos
Port of Cotonou
Port of Lomé
Port of Tema
LOMÉ
PORTO NOVO
ACCRA
Tema
Elmina
Koupéla
Fada N'Gourma
Cinkassé
Malanville
Kandi
BENIN
Mango
Djougou
Parakou
Tamale
Sokodé
Tchaourou
Savalou

FUTURE PROJECTS PROFILES

BURKINA FASO

BOBO DIOULASSO — **FASO FERT**

Project: Dolomite crushing equipment
Expected capacity: Unknown
Expected completion: 2018
Contact: **Pascal Le Moel**
Managing Director
+226 77 25 00 25
fasofert.dg@gmail.com

BOBO DIOULASSO — **TROPIC AGRO CHEM**

Project: Blender
Expected capacity: Unknown
Expected completion: 2019
Contact: **Al Hassane Sienou**
CEO
+226 70 20 61 58
tropic_agrochem1@yahoo.fr

CÔTE D'IVOIRE

YAMOUSSOUKRO — **IVOIRE FORMULATION**

Project: Weighcont Blender Line 5
Expected capacity: 120 mtph
Expected completion: 2019
Contact: **Armand Konan**
PCA
+225 07 11 06 96
armand.konan@agritecgroup.com

ABIDJAN — **OCP AFRICA**

Project: Blender
Expected capacity: 100 mtph
Expected completion: Build: 2018, Operating: 2019
Contact: **Caleb Usoh**
Country Manager, OCP Nigéria
+234 70 31 78 11 15
c.usoh@ocpafrica.com

GHANA

TEMA — **NEW BLENDER**

Project: Layco-Pro Declining Weight Blend & Bag Plant
Expected capacity: 45 mtph
Expected completion: 2019 (Q4)
Contact: Company name to be disclosed upon completion

MALI

BOUREM — **SANGOYE (GREAT QUEST FERTILIZER)**

Project: Crusher, Dryer and Washing Unit, Granulator (Phosphate)
Expected capacity: 100,000 mtpy
Expected completion: 2019
Contact: **Moussa Diabaté**
PDG
+223 66 75 30 14
moussapind@hotmail.fr

NIGER

DOSSO — **SOAPAM SA**

Project: Layco DW System + Nectar Bagging System
Expected capacity: 70 mtph
Expected completion: 2019
Contact: **Dah Yves Francis E.**
Managing Director
+226 70 74 50 34
yvesdah@yahoo.fr

NIGERIA

BAYELSA — **BRASS FERTILIZER**

Project: Urea
Expected capacity: 1.3 million mtpy
Expected completion: 2020 (Q1)
Contact: info@brassfertilizer.com

LAGOS, LEKKI — **DANGOTE FERTILIZER**

Project: Urea
Expected capacity: 2.8 million mtpy
Expected completion: 2020
Contact: **Aliyu Suleiman**
Corporate Strategy Lead
+234 80 70 49 24 69
aliyu.suleiman@dangote-group.com

KM 3 DUBIN DUTSE, ZARIA, KADUNA — **MATRIX FERTILIZER LTD**

Project: Blender
Expected capacity: 90 mtpy
Expected completion: 2019
Contact: **Abdulkabir Adisa Aliu**
Managing Director and CEO
+234 80 57 18 45 81
abdulkabir@matrixgroup-ng.com

LAFIA — **NASARAWA BLENDING PLANT**

Project: Blender
Expected capacity: 40 mtph
Expected completion: 2019
Contact: **Jamil Zakari**
Commissioner of Agriculture

ONNE, RIVERS STATE — **NOTORE CHEMICAL INDUSTRIES PLC**

Project: Bulk Blender
Expected capacity: 2,000 mtpd
Expected completion: 2019
Contact: **Ngozi Mba**
Head, Corporate Communications
+234 80 53 39 12 15
ngozi.mba@notore.com

3RD SITE UNDER INVESTIGATION — **OCP AFRICA**

Project: Blender
Expected capacity: 100 mtph
Expected completion: Build: 2018, Operating: 2019
Contact: **Caleb Usoh**
Country Manager, OCP Nigéria
+234 70 31 78 11 15
c.usoh@ocpafrica.com

KADUNA **OCP AFRICA**

Project: Blender
Expected capacity: 100 mtph
Expected completion: Build: 2018, Operating: 2019
Contact: **Caleb Usoh**
Country Manager, OCP Nigéria
+234 70 31 78 11 15
c.usoh@ocpafrica.com

OGUN **OCP AFRICA**

Project: Blender
Expected capacity: 100 mtph
Expected completion: Build: 2018, Operating: 2019
Contact: **Caleb Usoh**
Country Manager, OCP Nigéria
+234 70 31 78 11 15
c.usoh@ocpafrica.com

ABUJA **NEW BLENDER**

Project: Bagtech Blender
Expected capacity: 75 mtph
Expected completion: 2019 (Q4)
Contact: Company name to be disclosed upon completion

ABUJA **NEW BLENDER**

Project: Bagtech Blender
Expected capacity: 75 mtph
Expected completion: 2019 (Q4)
Contact: Company name to be disclosed upon completion

ABUJA **NEW BLENDER**

Project: Bagtech Blender
Expected capacity: 75 mtph
Expected completion: 2019 (Q4)
Contact: Company name to be disclosed upon completion

KADUNA **NEW BLENDER**

Project: Bagtech Blender
Expected capacity: 90 mtph
Expected completion: 2019 (Q4)
Contact: Company name to be disclosed upon completion

LAGOS **NEW BLENDER**

Project: Bagtech Blender
Expected capacity: 100 mtph
Expected completion: 2019 (Q4)
Contact: Company name to be disclosed upon completion

NEAR GUSAU **NEW BLENDER**

Project: Layco-Pro Declining Weight Blend & Bag Plant
Expected capacity: 90 mtph
Expected completion: 2019 (Q4)
Contact: Company name to be disclosed upon completion

NEAR KANO **NEW BLENDER**

Project: Layco-Pro Declining Weight Blend & Bag Plant
Expected capacity: 90 mtph
Expected completion: 2019 (Q4)
Contact: Company name to be disclosed upon completion

NEAR KANO **NEW BLENDER**

Project: Layco-Pro Declining Weight Blend & Bag Plant
Expected capacity: 90 mtph
Expected completion: 2019 (Q4)
Contact: Company name to be disclosed upon completion

NEAR OKENE **NEW BLENDER**

Project: Layco-Pro Declining Weight Blend & Bag Plant
Expected capacity: 200 mtph
Expected completion: 2019 (Q4)
Contact: Company name to be disclosed upon completion

NEAR ZARIA **NEW BLENDER**

Project: Layco-Pro Declining Weight Blend & Bag Plant
Expected capacity: 90 mtph
Expected completion: 2019 (Q4)
Contact: Company name to be disclosed upon completion

PORT HARCOURT **NEW BLENDER**

Project: Layco-Pro Declining Weight Blend & Bag Plant
Expected capacity: 150 mtph
Expected completion: 2019 (Q4)
Contact: Company name to be disclosed upon completion

SENEGAL

DAKAR **AMAFRIQUE SUARL**

Project: Crusher, Dryer and Washing Unit, Granulator (Phosphate)
Expected capacity: 100 mtpd
Expected completion: 2019 (Q4)
Contact: **Ndiaye Astou Dramé**
DCOI
+221 775 711 904
a.drame@amafric.com

DAKAR **TSE**

Project: Blender
Expected capacity: Unknown
Expected completion: –
Contact: **Abdourahmane Bibi Ndjaye**
DC
+221 773 000 247
bibi.tse@gmail.com

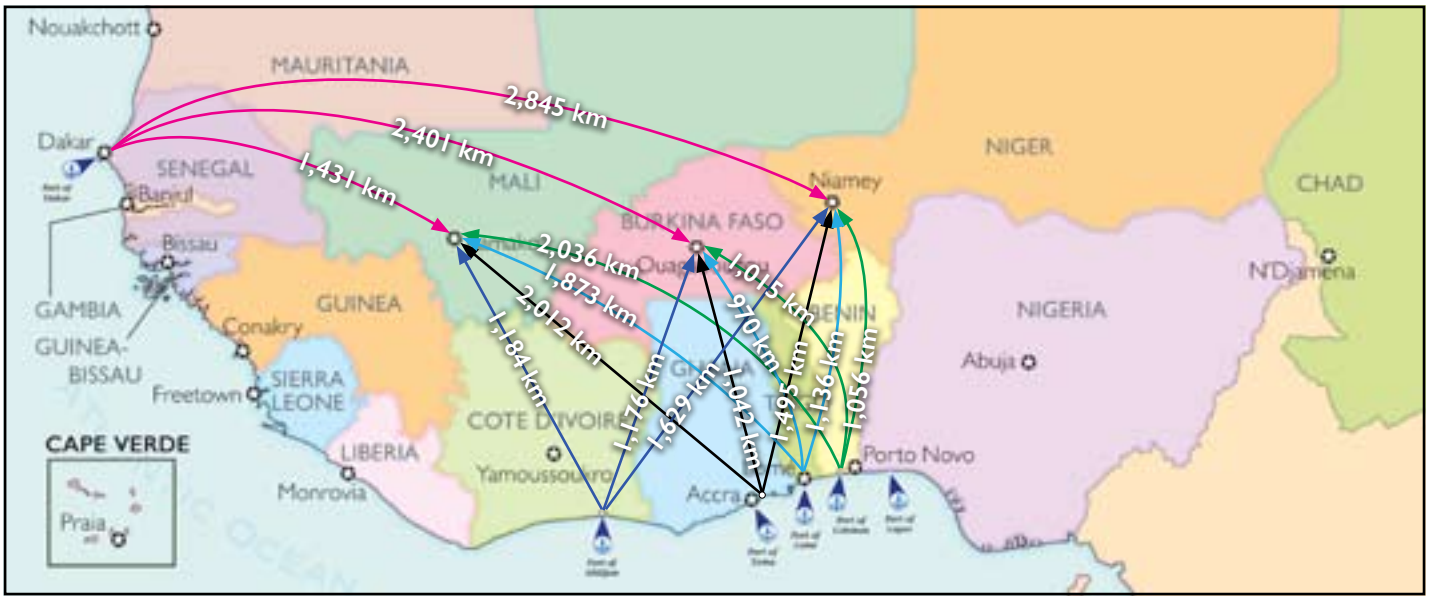
SIERRA LEONE

FREETOWN **MANGARA AGRIBUSINESS COMPANY**

Project: Bulk Blending
Expected capacity: 60 mtph
Expected completion: 2018
Contact: **Sinkarie Sesay**
Managing Director
+232 76 433 114, +232 76 158 709
sinkarie.sesay@mangara-sl.com

Photo: Patrice Annequin

WEST AFRICA TRADE CORRIDORS



Fertilizer logistics and especially road transport costs constitute an important component in the determination of fertilizer prices. That is why it is important for importers to know the different existing trade corridors in order to best manage the conveyance of their product from a given port to their customers in landlocked countries.

The six major ports in West Africa through which fertilizers are shipped to these landlocked ECOWAS zones are the ports of Dakar, Senegal; Abidjan, Côte d'Ivoire; Tema, Ghana; Lomé, Togo; Cotonou, Benin; and Lagos, Nigeria.

All these ports can serve one or more of the three landlocked countries in the ECOWAS region: Mali, Burkina Faso and Niger. Mali and Burkina Faso are important consumers of fertilizers – together they use more than 450,000 metric tons (mt) annually. Niger however is still a low consumer of fertilizers, at less than 50,000 mt per year.

All of the North/South routes linking ports to landlocked countries are called trade corridors. The organization of road and rail networks sometimes allows landlocked countries to have multiple options for fertilizer transport.

DISTANCE

The choice of the corridor and port is often determined by geographical location (distance between the port and the supply destination) and quality of roads (Table 1).

PORT INFRASTRUCTURE

Characteristics of a port and its congestion status also affects the choice of corridor. Port infrastructure is generally assessed according to the characteristics in Table 2.

Other factor affecting the choice of route include the pace and operational capacity of a port's offloading equipment and whether it has busy operating schedules at the projected date of product shipment.

In the end, the use of flatbed trucks of 35 mt (ECOWAS standard) remains the most developed means of transportation along these corridors, even if some countries such as Côte d'Ivoire, Burkina Faso, Senegal, Benin and Togo have railway tracks. It is important to note that renovation and construction work on a 3,000 km railway is ongoing to link Cotonou, Niamey, Ouagadougou, Abidjan and Lomé, and its completion should offer an additional transportation option.

Table 1. *Distances from ports to capital cities*

Port	Bamako	Ouagadougou	Niamey
Abidjan	1,184 km	1,176 km	1,629 km
Cotonou	2,036 km	1,015 km	1,056 km
Dakar	1,431 km	2,401 km	2,854 km
Lagos	1,428 km	852 km	799 km
Lomé	1,873 km	970 km	1,136 km
Tema	2,012 km	1,042 km	1,495 km

Table 2. *Port infrastructure characteristics*

Port:	Cotonou	Lomé	Tema
Size/area of water body	60 ha	81 ha	166 ha
Length of dock	1,980 m	1,170 m	2,615 m
Number of dock work stations	12	9	14
Permitted vessel draught	10 m	11 m	9.6 m
Warehouse capacities	83,500 m^3	62,000 m^3	53,270 m^3

Source : isemar

TRADE CORRIDORS, IMPORTERS AND DISTRIBUTORS


Agadez
Gao
NIGER
Tahoua
CHAD
NIAMEY
Zinder
Diffa
Moussoro
Birnin Kebbi
Sokoto
Katsina
Nguru
Dosso
Koupéla
Fada N'Gourma
Potiskum
Maiduguri
N'DJAMENA
Malanville
Kano
Cinkassé
Kandi
Zaria
Gombe
Bauchi
Maroua
Bongor
Mango
Kaduna
Djougou
Parakou
Jos
Tamale
Sokodé
Ilorin
ABUJA
Doba
Tchaourou
Savalou
Moundou
Lokoja
Makurdi
NIGERIA
Ibadan
Okpella
Ngaoundéré
Lagos
Enugu
LOMÉ
PORTO NOVO
Benin City
CAMEROON
Port of Tema
Port of Lomé
Port of Cotonou
Port of Lagos
Port Harcourt
Calabar
Bertoua
Buéa
Douala
MALABO
YAOUNDÉ
Edéa
Kribi
Port of Port Harcourt
Port of Malabo
Port of Douala
BIGHT OF BENIN
BIGHT OF BIAFRA

OVERVIEW OF WEST AFRICAN COUNTRIES

BENIN

Capital & major city ..... **Porto Novo**, Cotonou
Geographical area ..... Land 110,622 km^2; Water 2,000 km^2
Total: 112,622 km^2
Population ..... 11,340,504 (July 2018 est.)
Labor force ..... 3.662 million (2007 est.)
GDP real growth rate ..... 2012: 5.4% – 2013: 5.6% – 2014: 5.4%
GDP composition by sector ..... 35.9% agriculture
13.8% industry
50.3% services (2014 est.)
Major agricultural products ..... **Cotton, maize, cassava (manioc, tapioca), yam, beans, palm oil, groundnut, cashew, livestock**
Major industries ..... Textiles, food processing, construction materials, cement
Land use ..... 31.3% agricultural land
40% forest
28.7% other (2011 est.)

BURKINA FASO

Capital & major city ..... **Ouagadougou**, Bobo Dioulasso
Geographical area ..... Land 273,800 km^2; Water 400 km^2
Total: 274,200 km^2
Population ..... 19,742,715 (July 2018 est.)
Labor force ..... 7.692 million (90% in agriculture)
GDP real growth rate ..... 2013: 6.6% – 2014: 4% – 2015: 5%
GDP composition by sector ..... 22.9% agriculture
25.7% industry
51.5% services (2014 est.)
Major agricultural products ..... **Cotton, groundnut, shea nuts, sesame, sorghum, millet, maize, rice, livestock**
Major industries ..... Cotton lint, beverages, agricultural processing, soap, cigarettes, textiles, gold
Land use ..... 43% agricultural land
20.4% forest
36.6% other (2011 est.)

CAPE VERDE

Capital & major city ..... **Praia**, Mindelo
Geographical area ..... Land 4,033 km^2; Water 0 km^2
Total: 4.033 km^2
Population ..... 568,373 (July 2018 est.)
Labor force ..... 196,100 million (2007 est.)
GDP real growth rate ..... 2013: 1% – 2014: 1.8% – 2015: 3.5%
GDP composition by sector ..... 9.7% agriculture
18.3% industry
72% services (2015 est.)
Major agricultural products ..... **Bananas, maize, beans, sweet potato, sugar-cane, coffee, groundnut, fish**
Major industries ..... Food and beverages, fish processing, shoes and garments, salt mining, ship repair
Land use ..... 18.6% agricultural land
21% forest
60.4% other (2011 est.)

CÔTE D'IVOIRE

Capital & major city ..... **Yamoussoukro**, Abidjan
Geographical area ..... Land 318,003 km^2; Water 4,460 km^2
Total: 322,463 km^2
Population ..... 26,260,582 (July 2018 est.)
Labor force ..... 8.31 million (2015 est.) (68% in agriculture)
GDP real growth rate ..... 2013: 8.7% – 2014: 7.9% – 2015: 8.2%
GDP composition by sector ..... 17.4% agriculture
20.3% industry
62.2% services (2015 est.)
Major agricultural products ..... **Coffee, cocoa beans, banana, palm kernels, maize, rice, cassava (manioc, tapioca), sweet potato, sugar, cotton, rubber, timber**
Major industries ..... Foodstuffs, beverages, wood products, oil refining, gold mining, truck and bus assembly, textiles, fertilizer, building materials, electricity
Land use ..... 64.8% agricultural land
32.7% forest
2.5% other (2011 est.)

GAMBIA

Capital & major city	**Banjul**, Brikama
Geographical area	Land 10,120 km^2; Water 1,180 km^2 Total: 11,300 km^2
Population	2,092,731 (July 2018 est.)
Labor force	777,100 (2007 est.) (75% in agriculture)
GDP real growth rate	2013: 66.9% – 2014: -0.2% – 2015: 4.7%
GDP composition by sector	19.9% agriculture 13.2% industry 66.9% services (2015 est.)
Major agricultural products	**Rice, millet, sorghum, groundnut, maize, sesame, cassava (manioc, tapioca), palm kernels, cattle, sheep, goats**
Major industries	Groundnut, fish, hides, tourism, beverages, agricultural machinery assembly, woodworking, metalworking, clothing
Land use	56.1% agricultural land 43.9% forest 0% other (2011 est.)

GHANA

Capital & major city	**Accra**, Kumasi
Geographical area	Land 227,533 km^2; Water 11,000 km^2 Total: 238,533 km^2
Population	28,102,471 (July 2018 est.)
Labor force	11.54 million (2015 est.) (44.7% in agriculture)
GDP real growth rate	2013: 7.3% – 2014: 4% – 2015: 3.5%
GDP composition by sector	20.7% agriculture 27.7% industry 51.6% services (2014)
Major agricultural products	**Cocoa, rice, cassava (manioc, tapioca), groundnut, maize, shea nuts, banana, timber, pineapple, vegetables**
Major industries	Mining, lumbering, light manufacturing, aluminum smelting, food processing, cement, small commercial ship building, petroleum
Land use	69.1% agricultural land 21.2% forest 9.7% other (2011 est.)

GUINEA

Capital & major city	**Conakry**, Nzérékoré
Geographical area	Land 245,857 km^2; Water 140 km^2 Total: 245,857 km^2
Population	11,855,411 (July 2018 est.)
Labor force	5.24 million (2015 est.) (76% in agriculture)
GDP real growth rate	2013: 2.3% – 2014: 1.1% – 2015: 0%
GDP composition by sector	19.7% agriculture 37.2% industry 43.1% services (2015 est.)
Major agricultural products	**Rice, coffee, pineapple, mango, palm kernels, cocoa, cassava (manioc, tapioca), banana, potato, sweet potato; cattle, sheep, goats, timber**
Major industries	Bauxite, gold, diamonds, iron ore; light manufacturing, agricultural processing
Land use	58.1% agricultural land 26.5% forest 15.4% other (2011 est.)

GUINEA BISSAU

Capital & major city	**Bissau**, Bafatá
Geographical area	Land 28,120 km^2; Water 8,005 km^2 Total: 36,125 km^2
Population	1,833,247 (July 2018 est.)
Labor force	632,700 million (2007 est.) (82% in agriculture)
GDP real growth rate	2013: 0.8% – 2014: 2.5% – 2015: 4.7%
GDP composition by sector	44.7% agriculture 13.4% industry 41.9% services (2015 est.)
Major agricultural products	**Rice, maize, beans, cassava (manioc, tapioca), cashew, groundnut, palm kernels, cotton, timber, fish**
Major industries	Agricultural products processing, beer, soft drinks
Land use	44.8% agricultural land 55.2% forest 0% other (2011 est.)

LIBERIA

Capital & major city	**Monrovia**, Gbarnga
Geographical area	Land 96,320 km^2; Water 15,049 km^2 Total: 111,369 km^2
Population	4,809,768 (July 2018 est.)
Labor force	1.554 million (2014 est.) (70% in agriculture)
GDP real growth rate	2013: 8.7% – 2014: 0.7% – 2015: 0.9%
GDP composition by sector	36% agriculture 16% industry 48% services (2015 est.)
Major agricultural products	**Rubber, coffee, cocoa, rice, cassava (manioc, tapioca), palm oil, sugarcane, banana, sheep, goats, timber**
Major industries	Mining (iron ore), rubber processing, palm oil processing, timber, diamonds
Land use	28.1% agricultural land 44.6% forest 27.3% other (2011 est.)

MALI

Capital & major city	**Bamako**, Sikasso
Geographical area	Land 1,240,192 km^2; Water 20,002 km^2 Total: 1,240,190 km^2
Population	18,429,893 (July 2018 est.)
Labor force	5.644 million (2015 est.) (80% in agriculture)
GDP real growth rate	2013: 1.7% – 2014: 7.2% – 2015: 5%
GDP composition by sector	38.5% agriculture 23.3% industry 38.2% services (2013 est.)
Major agricultural products	**Cotton, millet, rice, corn, vegetables, groundnut, cattle, sheep, goats**
Major industries	Food processing, construction, phosphate and gold mining
Land use	34.1% agricultural land 10.2% forest 55.7% other (2011 est)

NIGER

Capital & major city	**Niamey**, Zinder
Geographical area	Land 1,266,700 km²; Water 300 km² Total: 1,267,000 km²
Population	19,866,231 (July 2018 est.)
Labor force	6.3 million (2015 est.) (90% in agriculture)
GDP real growth rate	2013: 4.6$ – 2014: 6.9% – 2015: 4.3%
GDP composition by sector	37.3% agriculture 18.9% industry 45.5% services (2015 est.)
Major agricultural products	**Cowpea, cotton, groundnut, millet, sorghum, cassava (manioc, tapioca), rice, cattle, sheep, goats, camels, donkeys, horses, poultry**
Major industries	Uranium mining, petroleum, cement, brick, soap, textiles, food processing, chemicals, slaughterhouses
Land use	35.1% agricultural land 1% forest 63.9% other (2011 est.)

NIGERIA

Capital & major city	**Abuja**, Lagos
Geographical area	Land 910,768 km²; Water 13,000 km² Total: 923,768 km²
Population	203,452,505 (July 2018 est.)
Labor force	57.46 million (2015 est.) (70% in agriculture)
GDP real growth rate	2013: 5.4% – 2014: 6.3% – 2015: 4%
GDP composition by sector	20.3% agriculture 23.6% industry 56.1% services (2013 est.)
Major agricultural products	**Cocoa, groundnut, cotton, palm oil, maize, rice, sorghum, millet, cassava (manioc, tapioca), yam, rubber; cattle, sheep, goats, pigs, timber, fish**
Major industries	Crude oil, coal, tin, columbite, rubber products, wood, hides/skins, textiles, cement and other construction materials, food products, footwear, chemicals, fertilizer, printing, ceramics, steel
Land use	78% agricultural land 9.5% forest 12.5% other (2011 est.)

SENEGAL

Capital & major city	**Dakar**, Touba
Geographical area	Land 192,530 km²; Water 4,192 km² Total: 196,722 km²
Population	15,020,945 (July 2018 est.)
Labor force	6.515 million (2015 est.) (77.5% in agriculture)
GDP real growth rate	2013: 3.6% – 2014: 4.7% – 2015: 5.1%
GDP composition by sector	17.1% agriculture 24.3% industry 58.6% services (2015 est.)
Major agricultural products	**Groundnut, millet, maize, sorghum, rice, cotton, tomato, green vegetables, cattle, poultry, pigs, fish**
Major industries	Agricultural and fish processing, phosphate mining, fertilizer production, petroleum refining, zircon and gold mining, construction materials, ship construction and repair
Land use	46.8% agricultural land 43.8% forest 9.4% other (2011 est.)

SIERRA LEONE

Capital & major city	**Freetown**, Bo
Geographical area	Land 71,620 km²; Water 120 km² Total: 71,740 km²
Population	6,312,212 (July 2018 est.)
Labor force	2.53 million (2015 est.)
GDP real growth rate	2013: 20.1% – 2014: 7.1% – 2015: -23.9%
GDP composition by sector	66.8% agriculture 3.4% industry 29.8% services (2015 est.)
Major agricultural products	**Rice, coffee, cocoa, palm kernels, palm oil, groundnut, poultry, cattle, sheep, pigs, fish**
Major industries	Diamond mining; iron ore, rutile and bauxite mining; small-scale manufacturing (beverages, textiles, cigarettes, footwear); petroleum refining, small commercial ship repair
Land use	56.2% agricultural land 37.5% forest 6.3% other (2011 est.)

TOGO

Capital & major city	**Lomé**, Sokodé
Geographical area	Land 54,385 km²; Water 2,400 km² Total: 56,785 km²
Population	8,176,449 (July 2018 est.)
Labor force	2.595 million (2007 est.) (65% in agriculture)
GDP real growth rate	2013: 5.4% – 2014: 5% – 2015: 5.4%
GDP composition by sector	29.5% agriculture 21% industry 49.5% services (2015 est.)
Major agricultural products	**Coffee, cocoa, cotton, yam, cassava (manioc, tapioca), maize, beans, rice, millet, sorghum, livestock, fish**
Major industries	Phosphate mining, agricultural processing, cement, handicrafts, textiles, beverages
Land use	67.4% agricultural land 4.9% forest 27.7% other (2011 est.)

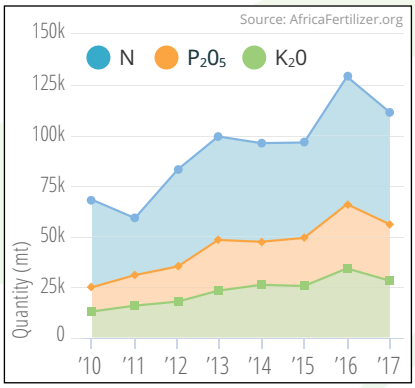
Source: CIA (World Factbook) and The World Bank

FERTILIZER FACTSHEET 2019 BURKINA FASO

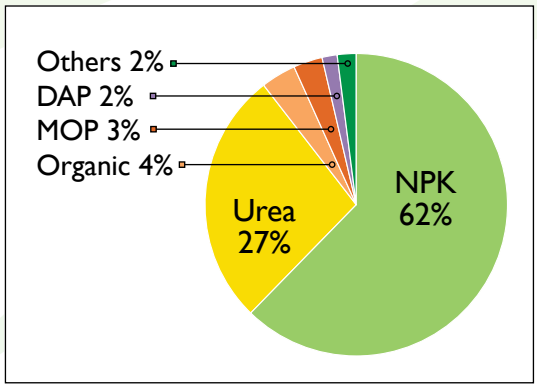
AfricaFertilizer.org

West African Fertilizer Association
Association Régionale des Professionnels de l'Engrais

FERTILIZER CONSUMPTION IN NUTRIENTS 2010-2017



FERTILIZER APPARENT CONSUMPTION 2018



FERTILIZER BLENDING PLANT SITES

FERTILIZER IMPORTS 2010-2018

Fertilizer	2010	2011	2012	2013	2014	2015	2016	2017	2018
NPK	55,716	69,207	104,965	138,608	84,239	105,013	178,526	171,473	165,558
Urea	72,868	36,404	64,783	57,332	63,298	55,712	68,056	60,855	72,433
DAP	6,565	9,065	2,668	6,493	17,057	13,881	7,827	4,537	4,290
MOP	4,495	9,260	2,807	2,079	20,447	13,149	9,225	3,495	8,253
Others	17,667	7,432	12,224	14,611	21,582	20,420	19,606	5,217	13,014
Total (mt)	**157,311**	**131,367**	**187,448**	**219,122**	**206,623**	**208,175**	**283,241**	**245,576**	**263,548**

FERTILIZER APPARENT CONSUMPTION 2010-2018

Fertilizer	2010	2011	2012	2013	2014	2015	2016	2017	2018
NPK	55,574	69,864	101,965	138,443	84,199	105,013	178,526	171,473	165,553
Urea	70,893	32,004	64,668	57,332	63,298	55,712	68,056	60,855	72,313
DAP	6,565	9,065	2,668	6,493	17,057	13,881	7,827	4,537	4,290
MOP	4,495	8,910	2,807	2,079	20,447	13,149	9,225	3,495	8,253
Others	17,649	5,400	11,770	14,616	21,582	20,420	19,606	5,217	15,334
Total (mt)	**155,175**	**125,242**	**183,879**	**218,962**	**206,583**	**208,175**	**283,241**	**245,576**	**265,743**

DEMAND FOR FERTILIZER BY CROP AND SEASON

Sowing | Growing | Harvest | ◆ Fertilizer peak demand

Season	Crop	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Major season (long rains)	Maize			◆	◆	◆	◆						
	Millet					◆	◆	◆	◆				
	Sorghum			◆	◆	◆	◆						
	Rice	◆	◆										◆
	Cotton					◆	◆	◆					

Source: FAO/GIEWS,FEWSNET

IFDC Developing Agriculture from the Ground Up

ifa INTERNATIONAL FERTILIZER ASSOCIATION

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

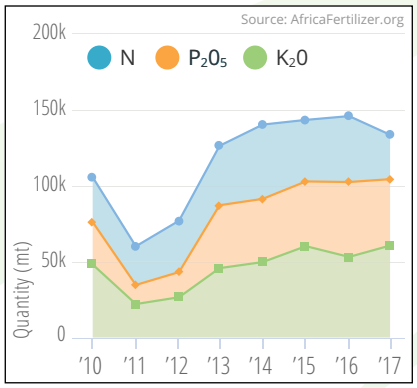
For more info: AfricaFertilizer.org and WAFAfertilizer.org

FERTILIZER FACTSHEET 2019 CÔTE D'IVOIRE

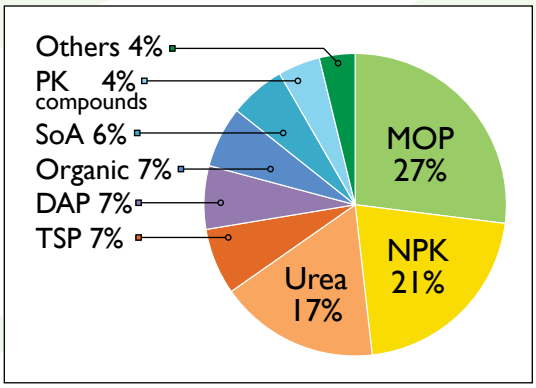
AfricaFertilizer.org

West African Fertilizer Association
Association Régionale des Professionnels de l'Engrais

FERTILIZER CONSUMPTION IN NUTRIENTS 2010-2017



FERTILIZER APPARENT CONSUMPTION 2018



FERTILIZER BLENDING PLANT SITES

FERTILIZER IMPORTS 2010-2018

Fertilizer	2010	2011	2012	2013	2014	2015	2016	2017	2018
NPK	3,080	2,023	16,434	60,004	23,522	68,770	54,224	34,687	58,499
Urea	39,868	51,582	61,675	52,436	74,180	65,775	66,682	43,790	43,066
DAP	39,270	9,982	23,024	47,320	40,198	19,505	39,881	25,217	15,793
MOP	77,743	36,820	47,433	65,910	88,441	96,732	82,073	99,902	64,415
SoA	24,561	13,871	15,394	36,742	38,816	22,741	20,175	21,573	13,888
TSP	16,901	10,246	8,363	25,475	29,317	43,881	55,348	62,045	16,505
Others	15,517	12,313	24,192	33,041	29,444	24,410	13,937	15,709	20,131
Total (mt)	**216,940**	**136,837**	**196,514**	**320,929**	**323,918**	**341,813**	**332,320**	**302,924**	**232,298**

FERTILIZER APPARENT CONSUMPTION 2010-2018

Fertilizer	2010	2011	2012	2013	2014	2015	2016	2017	2018
Urea	37,579	44,949	55,310	44,566	68,428	55,850	59,157	42,269	39,698
DAP	39,208	9,882	23,024	47,218	33,459	19,160	39,298	24,953	15,761
MOP	77,239	35,860	39,460	64,607	77,958	91,993	80,401	97,312	62,671
SoA	24,496	13,107	15,391	36,252	38,691	22,258	20,170	19,424	13,888
TSP	15,690	10,246	8,363	25,475	29,285	43,853	55,348	62,039	16,505
Others	15,522	13,500	23,045	49,462	45,140	54,759	43,674	25,159	83,813
Total (mt)	**209,734**	**127,544**	**164,592**	**267,581**	**292,961**	**287,873**	**298,047**	**271,157**	**232,337**

DEMAND FOR FERTILIZER BY CROP AND SEASON

Sowing | Growing | Harvest | ◆ Fertilizer peak demand

Season	Crop	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Major season (long rains)	Cotton (North)						◆	◆	◆				
	Cotton (Central)						◆	◆	◆				
	Cocoa (less than 3 years)				◆	◆			◆				
	Cocoa (Year 3 and more)				◆	◆		◆	◆				
	Oil palm (less than 3 years)			◆	◆					◆	◆		
	Oil palm (Year 3 and more)		◆	◆				◆			◆		
	Maize			◆	◆	◆							
	Rice					◆	◆	◆					
Minor season (short rains)	Cassava, Maize, Millet, Sorghum, Rice, Yam								◆	◆	◆		

Source: FAO/GIEWS, FEWSNET

IFDC Developing Agriculture from the Ground Up

ifa INTERNATIONAL FERTILIZER ASSOCIATION

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

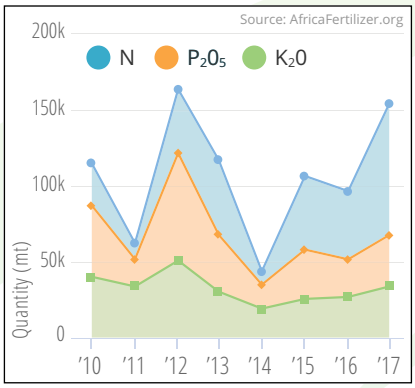
For more info: AfricaFertilizer.org and WAFAfertilizer.org

FERTILIZER FACTSHEET 2019 GHANA

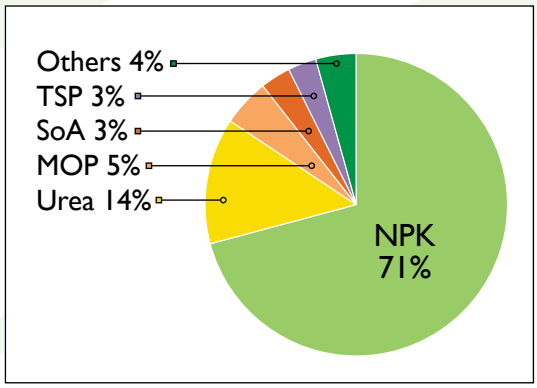
AfricaFertilizer.org

West African Fertilizer Association
Association Régionale
des Professionnels de l'Engrais

FERTILIZER CONSUMPTION IN NUTRIENTS 2010-2017



FERTILIZER APPARENT CONSUMPTION 2018



FERTILIZER BLENDING PLANT SITES

FERTILIZER IMPORTS 2010-2018

Fertilizer	2010	2011	2012	2013	2014	2015	2016	2017	2018
NPK	67,071	50,405	127,393	117,047	44,880	138,140	132,632	213,887	224,176
Urea	14,025	2,838	17,665	36,104	202	18,348	39,035	88,259	42,005
MOP	37,832	30,505	43,420	19,849	22,715	18,707	13,842	24,235	15,993
Organic	88	13	275	6,465	5,523	7,818	8,772	37,643	5,875
SoA	29,570	38,474	61,585	54,863	6,282	64,015	23,268	43,865	10,084
TSP	79,042	50,177	92,456	47,173	21,258	32,052	13,802	26,766	9,460
Others	18,311	30,478	31,809	16,587	10,223	11,077	8,532	9,582	7,564
Total (mt)	**245,939**	**202,890**	**374,603**	**298,088**	**111,083**	**290,156**	**239,883**	**444,236**	**315,157**

FERTILIZER APPARENT CONSUMPTION 2010-2018

Fertilizer	2010	2011	2012	2013	2014	2015	2016	2017	2018
NPK	65,783	46,273	126,968	113,812	39,344	137,902	132,632	210,387	220,176
Urea	13,994	2,431	17,603	36,104	-	18,253	39,035	88,259	42,002
MOP	37,332	25,884	43,403	19,801	22,702	18,707	13,842	24,235	15,712
Organic	88	13	275	6,465	5,523	7,818	8,747	37,568	5,868
SoA	39,531	1,052	61,585	54,863	6,282	64,015	23,268	43,865	10,084
TSP	79,042	22,149	92,456	47,173	19,613	32,052	13,802	26,766	9,460
Others	29,014	32,149	31,735	16,287	10,223	11,077	8,532	9,582	7,564
Total (mt)	**264,784**	**129,951**	**374,025**	**294,505**	**103,688**	**289,822**	**239,858**	**440,661**	**310,866**

DEMAND FOR FERTILIZER BY CROP AND SEASON

Sowing | Growing | Harvest | ◆ Fertilizer peak demand

Season	Crop	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Major season (long rains)	Cassava (first year)				◆	◆	◆						
	Cassava (second year)												
	Maize (North main)						◆	◆	◆				
	Maize (South main)			◆	◆	◆							
	Sorghum & Millet					◆	◆	◆	◆				
	Rice (North)					◆	◆	◆	◆				
	Rice (South)				◆	◆	◆						
	Yam	◆	◆	◆	◆								
Minor season (short rains)	Cassava, Maize, Millet, Sorghum, Rice, Yam							◆	◆	◆			

Source: FAO/GIEWS,FEWSNET

IFDC Developing Agriculture from the Ground Up

ifa INTERNATIONAL FERTILIZER ASSOCIATION

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

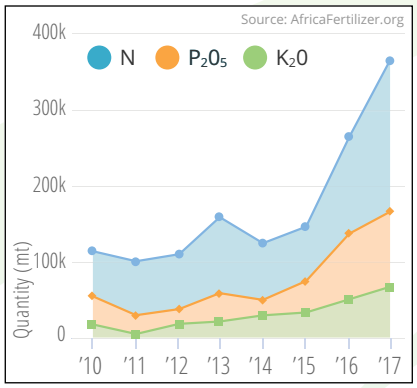
For more info: AfricaFertilizer.org and WAFAfertilizer.org

FERTILIZER FACTSHEET 2019 MALI

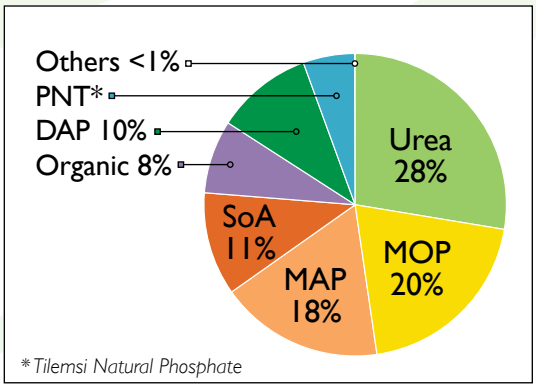
AfricaFertilizer.org

West African Fertilizer Association
Association Régionale
des Professionnels de l'Engrais

FERTILIZER CONSUMPTION IN NUTRIENTS 2010-2017

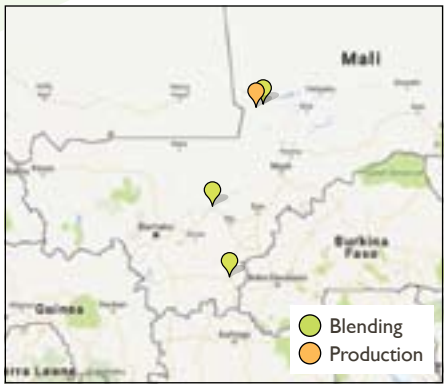


FERTILIZER APPARENT CONSUMPTION 2018



*Tilemsi Natural Phosphate

FERTILIZER PRODUCTION & BLENDING PLANT SITES



FERTILIZER IMPORTS 2010-2018

Fertilizer	2010	2011	2012	2013	2014	2015	2016	2017	2018
NPK	14,979	25,259	24,197	46,351	95,283	57,065	28,322	39,589	7,484
Urea	104,103	149,420	164,901	188,492	171,550	132,565	252,745	395,583	225,504
DAP	110	5,457	613	5,384	3,875	4,604	39,508	69,300	55,701
MAP	65,478	73,381	58,166	94,247	57,133	58,146	120,767	120,776	143,064
MOP	28,748	45,183	42,861	60,908	66,071	54,180	106,633	153,659	166,984
SoA	20,609	56,338	43,403	57,146	55,279	18,897	57,915	98,337	90,219
Others	6,724	7,270	22,744	23,434	11,835	2,378	45,686	33,280	16,790
Total (mt)	**240,750**	**362,307**	**356,885**	**475,962**	**461,027**	**327,835**	**651,575**	**910,524**	**705,746**

FERTILIZER APPARENT CONSUMPTION 2010-2018

Fertilizer	2010	2011	2012	2013	2014	2015	2016	2017	2018
Urea	104,037	124,015	137,334	169,514	128,963	131,562	219,405	354,014	225,414
DAP	110	5,457	613	5,384	3,875	4,354	39,448	59,918	84,305
MAP	65,478	39,155	29,750	64,778	28,587	58,146	87,427	96,112	143,064
MOP	28,748	7,756	25,256	34,513	43,082	54,180	82,905	110,995	163,934
SoA	20,609	42,282	15,708	40,844	23,290	18,897	47,759	74,722	90,219
Others	20,704	35,606	57,068	56,952	67,662	33,336	113,711	110,119	109,440
Total (mt)	**239,686**	**254,271**	**265,729**	**371,985**	**295,459**	**300,474**	**590,655**	**805,879**	**816,375**

DEMAND FOR FERTILIZER BY CROP AND SEASON

Sowing | Growing | Harvest | ◆ Fertilizer peak demand

Season	Crop	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Major season (long rains)	Irrigated Rice									◆	◆	◆	◆
	Maize					◆	◆	◆	◆				
	Millet					◆	◆	◆	◆				
	Rainfed Rice						◆	◆	◆	◆	◆	◆	
	Sorghum					◆	◆	◆					
	Cotton					◆	◆	◆					

Source: FAO/GIEWS, FEWSNET

IFDC Developing Agriculture from the Ground Up

ifa INTERNATIONAL FERTILIZER ASSOCIATION

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

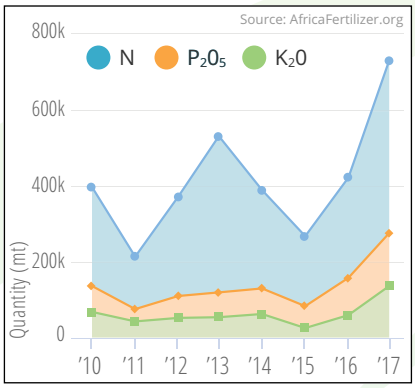
For more info: AfricaFertilizer.org and WAFAfertilizer.org

FERTILIZER FACTSHEET 2019 NIGERIA

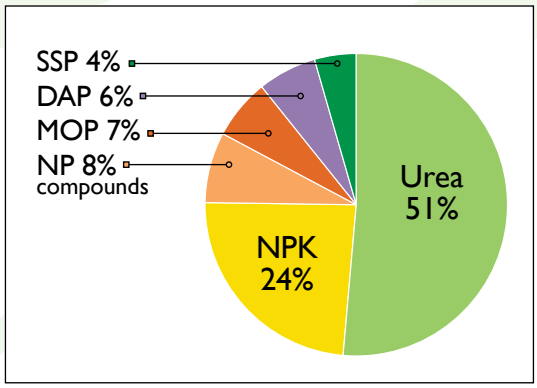
AfricaFertilizer.org

West African Fertilizer Association
Association Régionale
des Professionnels de l'Engrais

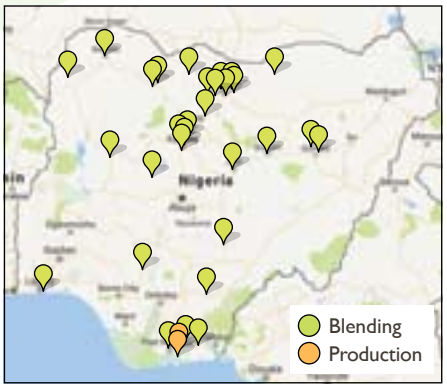
FERTILIZER CONSUMPTION IN NUTRIENTS 2010-2017



FERTILIZER APPARENT CONSUMPTION 2018



FERTILIZER PRODUCTION & BLENDING PLANT SITES



FERTILIZER IMPORTS 2010-2018

Fertilizer	2010	2011	2012	2013	2014	2015	2016	2017	2018
NPK	365,914	177,476	230,446	294,980	344,879	165,684	380,455	399,949	351,821
Urea	232,658	118,363	100,434	598,616	291,966	120,346	21,013	12	–
DAP	–	–	–	–	–	5,500	5,250	102,770	92,956
MOP	16,379	19,853	34,350	13,532	13,721	408	3,683	121,846	95,373
NP compounds	47,241	–	–	–	36,164	47,986	115,645	96,984	111,500
SoA	25,347	132	11,438	12,284	2,321	10,483	27,450	40,248	17,700
Others	6,132	27,915	116,979	94,547	53,167	67,569	40,498	42,284	48,101
Total (mt)	**693,672**	**343,739**	**493,647**	**1,013,959**	**742,216**	**417,976**	**593,994**	**804,093**	**717,450**

FERTILIZER APPARENT CONSUMPTION 2010-2018

Fertilizer	2010	2011	2012	2013	2014	2015	2016	2017	2018
NPK	366,114	178,320	345,953	270,919	344,879	165,684	380,455	399,949	351,821
Urea	420,526	242,761	451,394	765,731	423,966	319,656	386,383	760,734	758,499
DAP	–	–	–	–	–	5,500	5,250	102,770	92,956
MOP	16,382	20,779	34,479	13,921	13,721	408	3,683	121,846	95,373
NP compounds	47,301	0	0	87,988	68,535	47,986	115,845	96,984	111,500
SoA	25,358	27	11,109	12,301	2,321	10,483	27,450	40,248	17,700
SSP	11,088	32,474	13,910	37,682	571	16,751	16,599	16,550	19,854
Others	6,107	7,280	6,761	25,417	20,225	51,429	23,699	25,735	28,247
Total (mt)	**892,876**	**481,641**	**863,607**	**1,213,959**	**874,216**	**617,897**	**959,364**	**1,564,816**	**1,475,950**

DEMAND FOR FERTILIZER BY CROP AND SEASON

Sowing | Growing | Harvest | ◆ Fertilizer peak demand

Season	Crop	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				◆	◆	◆						
	Yam		◆	◆	◆								
Minor season (short rains)	Cassava, Maize, Millet, Sorghum, Rice, Yam	◆	◆									◆	◆

Source: FAO/GIEWS,FEWSNET

IFDC Developing Agriculture from the Ground Up

ifa INTERNATIONAL FERTILIZER ASSOCIATION

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

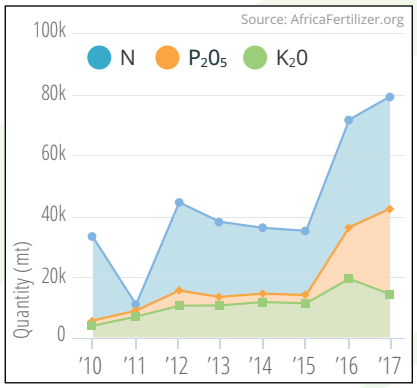
For more info: AfricaFertilizer.org and WAFAfertilizer.org

FERTILIZER FACTSHEET 2019 SENEGAL

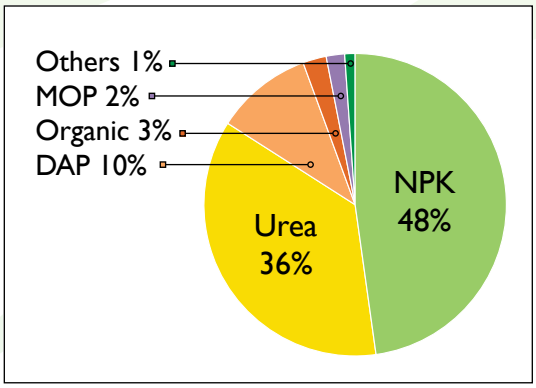
AfricaFertilizer.org

West African Fertilizer Association
Association Régionale
des Professionnels de l'Engrais

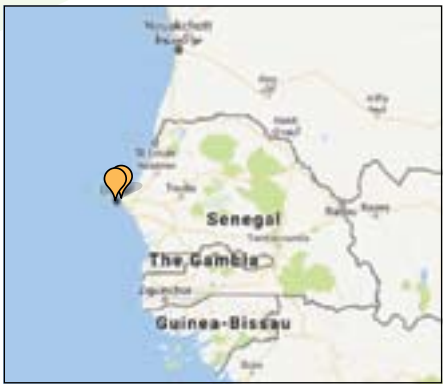
FERTILIZER CONSUMPTION IN NUTRIENTS 2010-2017



FERTILIZER APPARENT CONSUMPTION 2018



FERTILIZER PRODUCTION PLANT SITES



FERTILIZER IMPORTS 2010-2018

Fertilizer	2010	2011	2012	2013	2014	2015	2016	2017	2018
NPK	10,410	16,806	33,176	18,664	27,873	16,428	22,008	5,304	39,000
Urea	64,291	4,751	55,239	48,509	54,406	41,295	48,608	56,921	70,796
DAP	1,766	2,024	1,354	2,261	6,011	2,313	8,263	-	500
MOP	1,775	7,458	8,697	12,403	13,640	12,580	14,412	22,939	3,444
Others	6,199	3,343	4,169	4,301	5,058	6,218	2,682	2,259	4,469
Total (mt)	**84,440**	**34,382**	**102,636**	**86,138**	**106,989**	**78,835**	**95,974**	**87,423**	**118,209**

FERTILIZER APPARENT CONSUMPTION 2010-2018

Fertilizer	2010	2011	2012	2013	2014	2015	2016	2017	2018
NPK	10,324	12,338	32,678	18,180	17,330	16,068	69,780	-	83,699
Urea	54,954	-	52,031	47,587	40,855	40,522	48,607	56,332	63,500
DAP	-	-	-	-	-	-	13,514	61,081	18,146
MOP	1,775	7,458	8,697	12,398	13,640	12,580	14,412	22,939	3,444
Others	5,633	2,759	4,068	3,582	4,378	6,129	2,339	2,259	6,350
Total (mt)	**72,686**	**22,555**	**97,474**	**81,747**	**76,203**	**75,299**	**148,652**	**142,611**	**175,138**

DEMAND FOR FERTILIZER BY CROP AND SEASON

Sowing | Growing | Harvest | ◆ Fertilizer peak demand

Season	Crop	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Major season (long rains)	Groundnut						◆	◆	◆	◆			
	Maize						◆	◆	◆				
	Millet & Sorghum						◆	◆	◆				
	Rice						◆	◆	◆	◆	◆		
	Cotton					◆	◆	◆					
Minor season (short rains)	Groundnut, Maize, Millet, Rice					◆	◆	◆	◆				

Source: FAO/GIEWS, FEWSNET

IFDC Developing Agriculture from the Ground Up

ifa INTERNATIONAL FERTILIZER ASSOCIATION

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

For more info: AfricaFertilizer.org and WAFAfertilizer.org

Economic Community of West African States

OVERVIEW OF ECOWAS LEGAL FRAMEWORK

FOR FERTILIZER TRADE AND QUALITY CONTROL IN WEST AFRICA

The West Africa legal framework for fertilizer trade and quality control comprises of a set of five instruments:

1. Regulation C/REG.13/12/12 relating to fertilizer quality control in the ECOWAS Region.
2. Implementing Regulation ECW/PEC/IR/02/03/16 relating to the labeling and tolerance limits of fertilizers traded in the ECOWAS Region.
3. Implementing Regulation ECW/PEC/IR/05/12/16 relating to the roles, organization and functioning of the West African Committee for Fertilizer Control.
4. Implementing Regulation ECW/PEC/IR/06/12/16 relating to fertilizer analysis manual in the ECOWAS Region.
5. Implementing Regulation ECW/PEC/IR/07/12/16 relating to fertilizer inspection manual in the ECOWAS Region.

The purpose of this legal framework is to:

- Safeguard the interests of the farmers against nutrient deficiencies, adulteration, misleading claims, and short weight bag.
- Safeguard the interests of fertilizer enterprises and contribute to the creation of an enabling environment for private investment in the fertilizer industry.
- Protect the West Africa natural environment and its population against the potential dangers associated with inappropriate fertilizer use.
- Facilitate inter- and intra-States trade in fertilizers, through the implementation of principles and rules mutually agreed at the regional level to dismantle trade barriers.

In terms of scope, the Regional Fertilizer Regulation applies to all fertilizer-related activities, especially those pertaining to the licensing of agro-dealers, as well as the storage and sale of fertilizers locally manufactured or imported into the Member States.

The Regional Fertilizer Regulation establishes an implementation body denominated the West African Committee for Fertilizer Control (WACoFeC) with the mandate to facilitate, on behalf of the ECOWAS Commission, the implementation of the Regional Fertilizer Regulation by Member States, working closely with national bodies in charge of fertilizer control. Its organization and functioning are spelled out in a specific Implementing Regulation (listed above as No. 3) and its operational budget is provided for by the ECOWAS Commission.

USAID FROM THE AMERICAN PEOPLE
UEMOA
CILSS
IFDC Developing Agriculture from the Ground Up

The Regional Fertilizer Regulation also establishes two implementation instruments (manuals) detailing the modalities and procedures for fertilizer inspection and analysis in the Member States. However, it attributes the responsibility for quality control to each Member State through qualified inspectors and designated laboratories.

Other key provisions of the Regional Fertilizer Regulation include:

- Minimum labeling requirements.
- Maximum tolerance limits for nutrient content deficiencies and bag weight shortages.
- Maximum allowable limits of heavy metals in fertilizer products.
- Mandatory licensing for agro-dealers (issued by each country under conditions and modalities they each determine, valid for 3 years renewable) – The conditions for operating as a manufacturer or an importer of fertilizer in each of the Member States shall be governed by the regulations in force in the Member State concerned.
- Specification for fertilizer warehouse and storage conditions.
- Requirement for prior notification for importation of fertilizers.
- Right to appeal for manufacturers, importers and distributors.
- Sanctions defined by each Member State for violations stated in the Regulation.

At the core of the West Africa legal framework for fertilizer control is the principle of "truth in labeling" which holds that whatever a seller claims he/she is selling, he/she must guarantee it. It is therefore essential that label claims on fertilizer packaging be truthful. Consequently, some specific requirements are set to define what one can claim and it is not necessary to register fertilizer products.

Legal implications: As stated in the ECOWAS Revised Treaty, the Regional Fertilizer Regulation has a general application (i.e., applies to all); it is binding on all and in all its elements, and is directly, immediately and simultaneously applicable in all countries. In other words, once adopted, it is an integral part of national legislations and no ratification or domestication is needed at the national level. However, each Member State shall adopt complementary supporting regulations prescribed by the Regulation and may adopt other regulations in areas not legislated at the regional level.

For further information about the ECOWAS Fertilizer Regulation, please contact:

Mr. Alain Sy TRAORE
Director, Agriculture & Rural Development
ECOWAS Commission
Email : satraore@ecowas.int

Economic Community of West African States

ECOWAS TOLERANCE LIMITS

FOR PLANT NUTRIENTS, HEAVY METALS AND BAG WEIGHT

(Ref. Implementing Regulation ECW/PEC/IR/02/03/16)

Tolerance means the permitted deviation of measured values of a nutrient content or bag weight below the values claimed on the label, or the maximum allowable heavy metal limits in a fertilizer. The tolerance limits for nutrient contents, heavy metals and bag weight are as follows:

ALLOWABLE VARIATIONS IN PLANT NUTRIENT CONTENTS

1. The maximum acceptable deviation of the measured values of primary nutrient contents below the values claimed on the label shall be the value as follows:

TYPE OF FERTILIZER	TOLERANCE
Single nutrient fertilizers:	
• With up to 20% nutrient content	Maximum 0.3 units
• With more than 20% nutrient content	Maximum 0.5 units
Complex fertilizers and NPK blends	Maximum 1.1 units for individual nutrients and maximum 2.5% for all nutrients combined

The total deviation for all nutrients combined is calculated from the addition of deviations for nutrients with contents lower than the label specification; compensation from nutrients with content higher than specified to balance deficiency of another nutrient is not allowed.

2. The maximum acceptable deviation of the measured value of a **secondary or micro nutrient content** below the values claimed on the label shall be as follows:

NUTRIENTS		TOLERANCE
SECONDARY NUTRIENTS	Calcium (Ca) Sulfur (S) Magnesium (Mg)	0.2 unit +5% of guarantee
MICRONUTRIENTS	Boron (B)	0.003 unit +15% of guarantee
	Cobalt (Co) Molybdenum (Mo)	0.0001 unit +30% of guarantee
	Chlorine (Cl) Copper (Cu) Iron (Fe) Manganese (Mn) Sodium (Na) Zinc (Zn)	0.005 unit +10% of guarantee

The maximum allowable variation when calculated in accordance with the above shall be 1 unit (1%).

MAXIMUM ALLOWABLE HEAVY METAL LIMITS

1. The maximum allowable heavy metal limits in fertilizer products shall be determined based on the following:

HEAVY METAL	MULTIPLIER		TOLERANCE
	ppm per 1% P_2O_5	*ppm per 1% micronutrients*	*milligrams per kilogram of biosolids or compost product – dry weight basis*
Arsenic (As)	13	112	75
Cadmium (Cd)	10	83	85
Cobalt (Co)	136	2,228*	–
Copper (Cu)	–	–	4,300
Lead (Pb)	61	463	840
Mercury (Hg)	1	6	57
Molybdenum (Mo)	42	300*	75
Nickel (Ni)	250	1,900	420
Selenium (Se)	26	180	100
Zinc (Zn)	420	2,900*	7,500

** Should be used only when the percentage of that particular micronutrient is not specified or guaranteed in the fertilizer label.*

2. For a fertilizer product with P_2O_5 guarantee and no micronutrient guarantee:

   For each heavy metal, its maximum allowable concentration (ppm) in that product shall be determined by multiplying the percent guaranteed P_2O_5 of the product by the appropriate factor of that heavy metal in column 2 in the above table (paragraph 1).

   However, if the percent guaranteed P_2O_5 of the product is less than 6.0, then the multiplier to be utilized shall be 6.0.

3. For a fertilizer product with micronutrients guarantee and no P_2O_5 guarantee:

   For each heavy metal, its maximum allowable concentration (ppm) in that product shall be determined by multiplying the sum of the guaranteed percentages of all micronutrients in the product by the appropriate factor of that heavy metal in column 3 in the above table presented in paragraph 1.

   However, if the sum of the guaranteed percentages of all micronutrients in the product is less than 1.0 then the multiplier to be utilized shall be 1.0.

4. For a fertilizer product with both micronutrients and P_2O_5 guarantee:

   For each heavy metal, carry out separately the computation outlined in above paragraphs 2) and 3) and the maximum allowable concentration (ppm) of the heavy metal under consideration shall be the higher of the two resulting values.

5. For a biosolid or compost product, its maximum allowable concentration of each heavy metal shall be the appropriate value of that heavy metal in column 4 of the above table presented in paragraph 1.

MAXIMUM ALLOWABLE VARIATION FOR BAG WEIGHT

The maximum acceptable variation of measured bag weight below the value claimed on the label shall be 500 g per 50 kg bag (1%).

MINIMUM PERCENTAGES OF NUTRIENT CONTENTS CLAIMABLE

1. For Nitrogen (N), Phosphorus (P_2O_5) or Potassium (K_2O), the minimum percentage of nutrient contents that may be guaranteed shall be 1.0.

2. The minimum percentages of nutrient contents, other than nitrogen, phosphorus and potassium that may be guaranteed shall be as follows:

ORDER OF DECLARATION	NUTRIENT	MINIMUM PERCENT CLAIMABLE
1	Calcium (Ca)	1.0000
2	Sulfur (S)	1.0000
3	Magnesium (Mg)	0.5000
4	Boron (B)	0.0200
5	Chlorine (Cl)	0.1000
6	Cobalt (Co)	0.0005
7	Copper (Cu)	0.0500
8	Iron (Fe)	0.1000
9	Manganese (Mn)	0.0500
10	Molybdenum (Mo)	0.0005
11	Sodium (Na)	0.1000
12	Zinc (Zn)	0.0500

3. Any of the secondary nutrients and micronutrients listed in paragraph 2 above that are guaranteed shall appear in the order listed and shall immediately follow guarantees for the primary nutrients of nitrogen, phosphorus and potassium if present.

For further information about the ECOWAS Fertilizer Regulation, please contact:

Mr. Alain Sy TRAORE – Director, Agriculture & Rural Development
ECOWAS Commission – Email: satraore@ecowas.int

YOUR CLAIM IS A WARRANTY!

ECOWAS FERTILIZER LABELING

Economic Community of West African States

(Ref. Implementing Regulation ECW/PEC/IR/02/03/16)

The label illustrated here is not a standard. It's a model that simply shows the minimum information required on fertilizer labels, as prescribed by an ECOWAS Implementing Regulation on labeling.

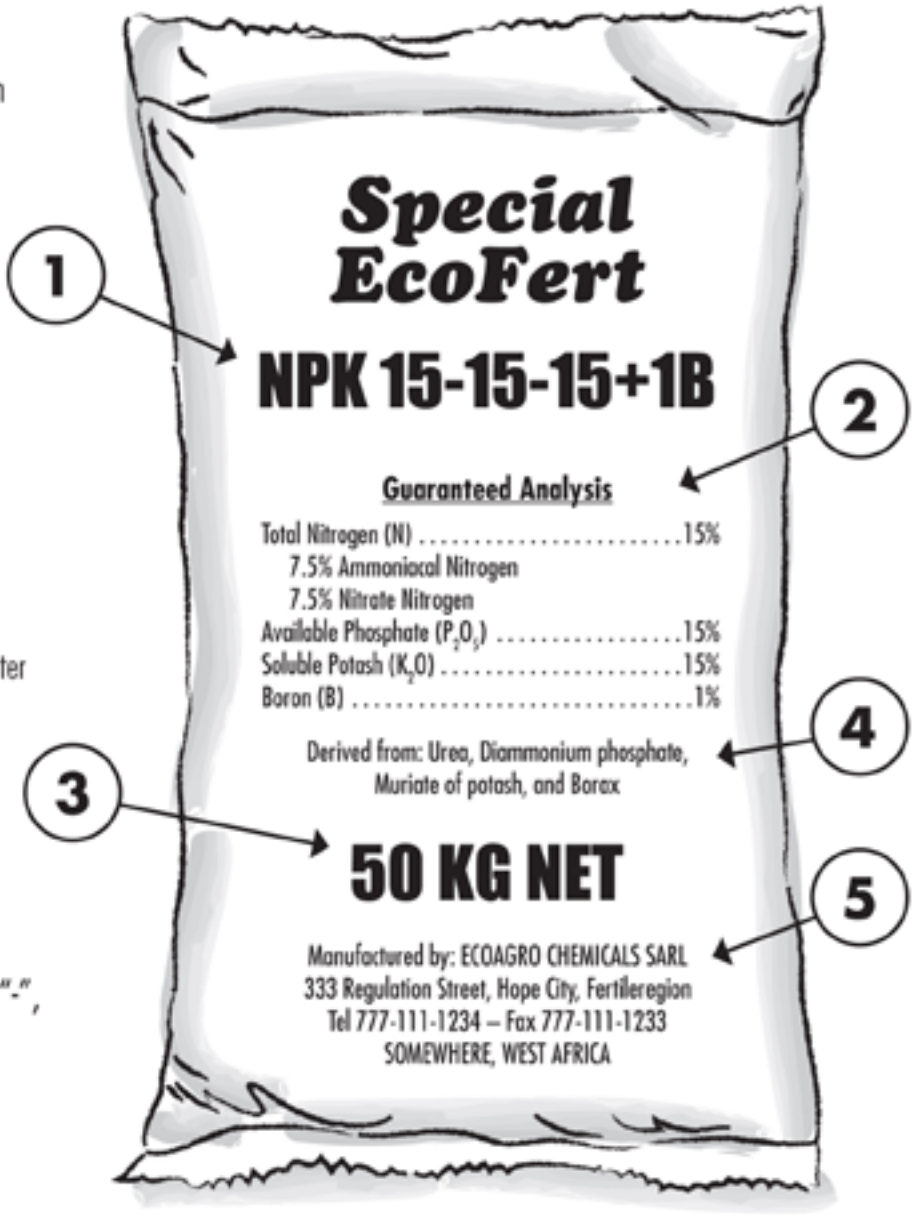
THE BIG FIVE

Five required components must appear on a fertilizer label:

1. Grade
2. Guaranteed analysis
3. Net weight
4. Sources of nutrients
5. Name and address of the manufacturer, importer or re-packing agent

GRADE

Grade is a shorthand representation of the guarantees for Total Nitrogen (N), Available Phosphate (P_2O_5) and Soluble Potash (K_2O) with each guarantee separated by a hyphen, "-", e.g., 15-15-15. The grade shall be in whole numbers and in the same terms, order, and percentages as in the guaranteed analysis.



USAID FROM THE AMERICAN PEOPLE · UEMOA · CILSS · IFDC Developing Agriculture from the Ground Up

GUARANTEED ANALYSIS

The **Guaranteed Analysis** states the minimum percentage of all plant nutrients claimed on the label in a specific order and format. The format is as follows:

Guaranteed analysis

Total Nitrogen (N) ..... ____%,
____% Ammoniacal Nitrogen
____% Nitrate Nitrogen
____% Water-insoluble Nitrogen
____% Urea Nitrogen
____% Other recognized and determinable forms of N
Available Phosphate (P_2O_5) ..... ____%
Soluble Potash (K_2O) ..... ____%
Calcium (Ca) ..... ____%
Sulfur (S) ..... ____%
Magnesium (Mg) ..... ____%
Boron (B) ..... ____%
Chlorine (Cl) ..... ____%
Cobalt (Co) ..... ____%
Copper (Cu) ..... ____%
Iron (Fe) ..... ____%
Manganese (Mn) ..... ____%
Molybdenum (Mo) ..... ____%
Sodium (Na) ..... ____%
Zinc (Zn) ..... ____%

Guarantees or claims for the above listed plant nutrients are the only ones which will be accepted in West Africa and they must be in the order listed except when a nutrient is broken down into chemical forms, such as for N, then the breakdown forms may be in any order. If a nutrient is claimed, then it shall be listed in the Guaranteed Analysis. Zero guarantees are not allowed except in the chemical form breakdown where they may be used if needed for clarity.

NET WEIGHT

All fertilizers (bag, bulk or liquid) must be sold with specification of the net weight, which may be expressed in metric units.

SOURCES OF NUTRIENTS

Sources of nutrients, when shown on the label, shall be listed below the completed Guaranteed Analysis statement.

NAME AND ADDRESS OF MANUFACTURER OR RE-PACKING AGENT

The name and address of the registered/licensed manufacturer or re-packing agent responsible for the guarantees on the label shall be listed on the label.

ADDITIONAL NOTES

1. For packaged products, this label shall either (a) appear on the front or back of the package and occupy at least one-third of a side of the package, or (b) be printed on a tag with minimum dimensions of 8 cm by 12 cm and attached to the package. For bulk products, this same label in written or printed form shall accompany delivery and be supplied to the purchaser at time of delivery, and be accessible for inspection purposes.
2. The component order is not fixed as long as all are present in a readable and conspicuous place on the label.
3. There may be additional labeling requirements; therefore, it is always advisable to consult with the appropriate national body for fertilizer control in your country for review of a draft label prior to printing.
4. The minimum percentages of primary nutrients (N, P_2O_5, K_2O) claimable shall be 1.0. The minimum percentages of secondary and micro nutrients claimable are specified in an Implementing Regulation on fertilizer labeling.

Label means (1) any legend, word, mark, symbol, or design applied or attached to, included in, belonging to, or accompanying any fertilizer, supplement, or container; or (2) any advertisements, brochures, posters, television, radio, or internet announcements used in promoting the sale of fertilizer.

For further information about the ECOWAS Fertilizer Regulation, please contact:

Mr. Alain Sy TRAORE
Director, Agriculture & Rural Development
ECOWAS Commission
Email: satraore@ecowas.int

YOUR CLAIM IS A WARRANTY!

The West African Fertilizer Industry united and committed to a wealthy West Africa through sustainable agriculture

West African Fertilizer Association
Association Régionale
des Professionnels de l'Engrais

OUR VISION

To be the fertilizer industry platform for a common voice and action to promote sustainable crop nutrition in West Africa.

SINCE
2016

40
MEMBERS
FROM
10
COUNTRIES
JOINED
ACCOUNTING
FOR OVER
1
BILLION US$
MARKET

7 objectives to build a reliable market that guarantees sustainable access to quality and affordable fertilizers to West African farmers

FINANCE

Improve access to finance along the fertilizers supply chain

QUALITY

Improve fertilizers quality through self-regulation, promotion of best practices and enforcement of ECOWAS regulations

STEWARDSHIP

Promote fertilizers stewardship of key players and farmers to improve consumption and effective use of fertilizers

AVAILABILITY

Improve fertilizers availability down to the last mile

TRADE

Advocate for regional integration in the ECOWAS region for increased trade

INFORMATION

Promote information sharing and improve information dissemination on fertilizers

DIALOGUE

Promote a dialogue among private and public stakeholders on crop nutrition and related matters

Our Partners

IFDC Developing Agriculture from the Ground Up

ECOWAS

AfricaFertilizer.org

ifa International Fertilizer Association

AFAP

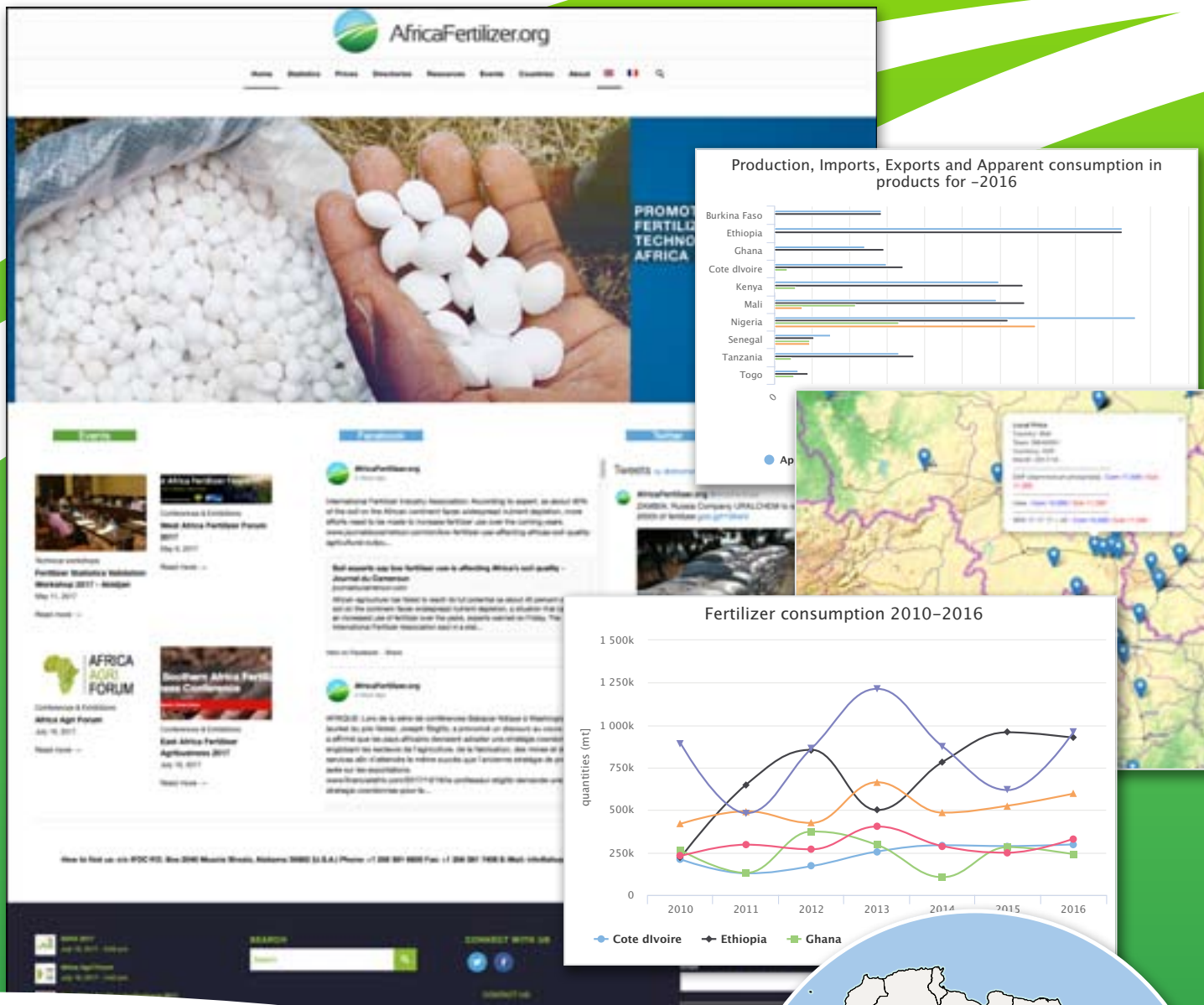
argus

WAFA is a non-profit association registered in Mali under N° 00015/MATDRE-DGAT Bamako

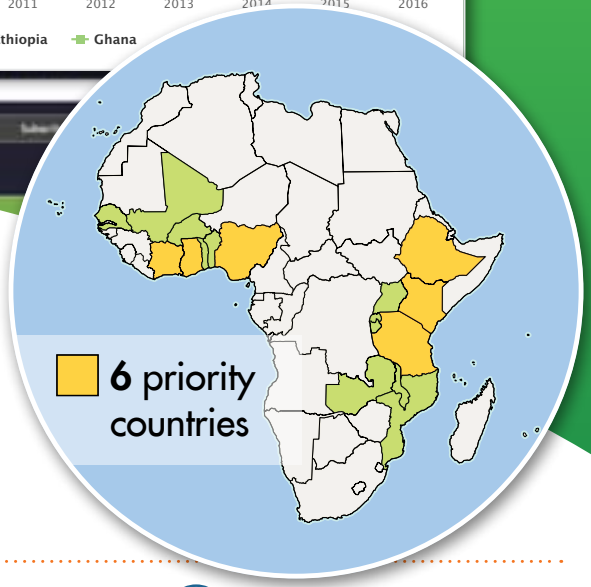
wafafertilizer.org contact@wafafertilizer.org wafafertilizer.org Wafa_Fertilizer

AfricaFertilizer.org

get free access to market intelligence and statistics on fertilizers in Africa



The **AfricaFertilizer.org initiative** aims to contribute to the development of a sustainable and profitable agriculture sector in Africa through the provision of clear and opportune information on fertilizers to the public and private sector.



IFDC
Developing Agriculture from the Ground Up

ifa
INTERNATIONAL FERTILIZER ASSOCIATION

AFAP

FAO

AFRICAN UNION

argus

IFPRI
INTERNATIONAL FOOD POLICY RESEARCH INSTITUTE

info@africafertilizer.org

twitter.com/africfertilizer

facebook.com/africafertilizer