AGRICULTURE IN GHANA

FACTS AND FIGURES
(2015)

Issued By:

MINISTRY OF FOOD AND AGRICULTURE

Statistics, Research and Information Directorate (SRID)

October, 2016

FOREWORD

This document, Agriculture in Ghana: Facts and Figures (2015), has been prepared by the Statistics Research and Information Directorate (SRID) of the Ministry of Food and Agriculture (MoFA). It is the 25th edition of an annual series that commenced in 1991.

There is a growing recognition that for any impactful and sustained growth and development to be achieved, in any sphere of endeavor, there is the need to have access to timely and good quality data/statistics. For instance, governments' sound policy strategies, planning, implementation, monitoring and evaluation are predicated on the existence of good quality data. Various institutions, organizations, researchers, among others, also need timely, reliable and relevant data to guide their effective decision making process.

Agriculture has long been recognized, in particular, by developing economies as the critical sector that could help achieve the much needed global goal of poverty reduction, in a much more sustainable way. For this to happen, however, countries require reliable, relevant and accurate statistics to adequately inform policy direction and indeed the decision making process.

In response to the need for good quality agricultural statistics to support the decision making processes of both the public and private sector, the Ministry of Food and Agriculture, acting through the SRID, initiated the annual production of the Facts and Figures document. It seeks to serve as a quick reference book for various category of users by providing salient features of the Ghanaian agriculture in figures, with focus on crops (including cocoa), livestock and fisheries sub-sectors, of the economy, as well as food commodity and input prices.

Inputs into the document are derived from two sources; primary (e.g. through surveys conducted by SRID) and secondary (e.g. through provision of data by other public and private institutions). Access to the secondary source has often come with some difficulty due, in part, to some data providers' lack of appreciation of the use to which such data is put. This notwithstanding, the need for agricultural statistics has been growing, over time, with user needs becoming increasingly varied and complex. As part of efforts to improve primary data collection and analysis, the SRID has been collaborating with the International Food Policy Research Institute (IFPRI) to strengthen the agricultural statistics system through the implementation of the Ghana Agricultural Production Survey (GAPS). The GAPS seeks to enhance the quality and quantity of statistics generated by SRID.

The Ministry intends to continue with the publication of this document to provide quality, consistent, and timely information on the agricultural sector for the formulation of sound development policies and plans to improve the efficiency of food production and distribution, thereby raising productivity, incomes and ultimately enhancing the livelihood of the Ghanaian farmer. It is therefore, hoped that this document will be widely circulated and the information therein utilized, to help accelerate the growth and development of agriculture in Ghana.

The Ministry also wishes to state that all contributions, comments and suggestions that will help to further improve subsequent editions of the document are very much welcome. Any information in this regard should kindly be addressed to:

The Director
Statistics, Research and Information Directorate, MoFA
P. O. Box M.37, Accra. Tel: +233 (0) 302 664317 / 666727, 0200671385
Email: sriddir@gmail.com / harrison_opoku@yahoo.co.uk

Hon. Minister of Food and Agriculture
(October, 2016)

ACKNOWLEDGEMENT

The 25th Edition of the Agriculture in Ghana Facts and Figures document was prepared by SRID, MoFA, with contributions from various sources. The Directorate, wishes to express its profound gratitude to all the Organizations, Institutions, Ministries, Departments and Agencies (MDAs) who made inputs, in one way or the other, for their invaluable contributions towards the successful production of the document.

We are particularly grateful to MoFA top Management, led by the sector Minister, his two Deputies, the Chief Director, and all the Directors, for their continuous support, guidance, insightful comments and suggestions over the years, which have helped in no small measure in improving the quality of the document.

The International Food Policy and Research Institute (IFPRI) and USAID, deserve special commendation for their continuous support in strengthening the agricultural statistical system, through the provision of technical and financial support under the Ghana Strategy Support Programme (GSSP), towards the implementation of the Ghana Agricultural Production Survey (GAPS)

To all MDAs, organizations, institutions, development partners, among others, who have supported the Directorate in various ways over the years either as providers or users of our data, we are pleased to say that your invaluable contributions, suggestions and comments, have largely contributed to enhancing the credibility of the document and we therefore, wish to say thank you so much for your immense contributions.

The entire management and staff of the SRID have worked so tirelessly in coordinating the preparation of this document. The considerable efforts and dedication demonstrated throughout the various stages of development, leading to the final production of the document deserve special recognition. Your overall contribution in this regard, is therefore, very much appreciated and commendable.

Any other sources of information, contributions, among others, which might have been inadvertently omitted in this acknowledgement, are deeply regretted and management of SRID wishes to apologize unreservedly for such an omission. Due acknowledgement would be made in subsequent publications, if it is brought to our attention.

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AGRICULTURE IN GHANA FACTS AND FIGURES

SECTION 1: GEOGRAPHIC, DEMOGRAPHIC AND ECONOMIC BACKGROUND OF THE COUNTRY

The Country	: Republic of Ghana.
Capital	: Accra.
Total Administrative Regions	: 10
Total Administrative Districts	: 216
Population (2010)	: 24,658,823 [1]
Population Estimate (2015)	: 27,670,174 [2]
Population Growth Rate	: 2.3% per annum
Geographic Location	: Latitude 4° 44'N and 11° 11'N; : Longitude 3 ° 11' W and 1° 11'E
Coastline	: 550 km long
Total Land Area	: 23,884,245 hectares
Principal Agricultural Exports	: Cocoa, Timber, Horticultural Products, Fish/Sea Foods
Principal Agricultural Imports	: Wheat, Rice, Chicken (frozen), Milk, Fish
Principal Mineral Resources	: Petroleum, Gold, Bauxite, Manganese and Diamond.

[1] *2010 National Population and Housing Census (GSS)*

[2] Data Processing Unit, *GSS Projection* (September, 2016)

SECTION 2: LAND USE, VEGETATION, SOILS AND CLIMATE

2.1: Land Use

Table 2.1: Land Use (Specific to Agriculture)

Type of Land Use	Hectares	(%)	Percentage formula definition
1.0 Total Land Area (T.L.A.)	23,884,245	100.00	
2.0 Agric. Land Area (A.L.A.)	13,600,000	56.94	(2.0/1.0)
2.1 Area under cultivation (2015)	6,421,450	47.22	(2.1/2.0)
2.1.1 Total area under irrigation (2015)	221,000	3.44	(2.1.1/2.1)
3.0 Area under inland waters	1,100,000	4.60	(3.0/1.0)
4.0 Others (forest reserves, savannah Woodland etc.)	8,746,021	36.60	(4.0/1.0)

Sources: The Ghana Survey Dep't and SRID, MOFA, Accra

Note: Percentages will not add up to 100 because Area under cultivation is part of Agric. Land Area, while area under irrigation is part of area under cultivation.

Table 2.2: Land Use Area Pattern

Land Use	('000) sq.km	% of Total
Agriculture		
Annual Crops	12	5
Tree Crops	17	7
Bush Fallow and other uses	60	25
Unimproved pasture	36	15
Sub Total	**125**	**52**
Non Agriculture		
Forest reserves	26	11
Savannah woodland	71	30
Wildlife reserves	12	5
Unreserved forest	5	2
Sub Total	**114**	**48**
Total	**239**	**100**

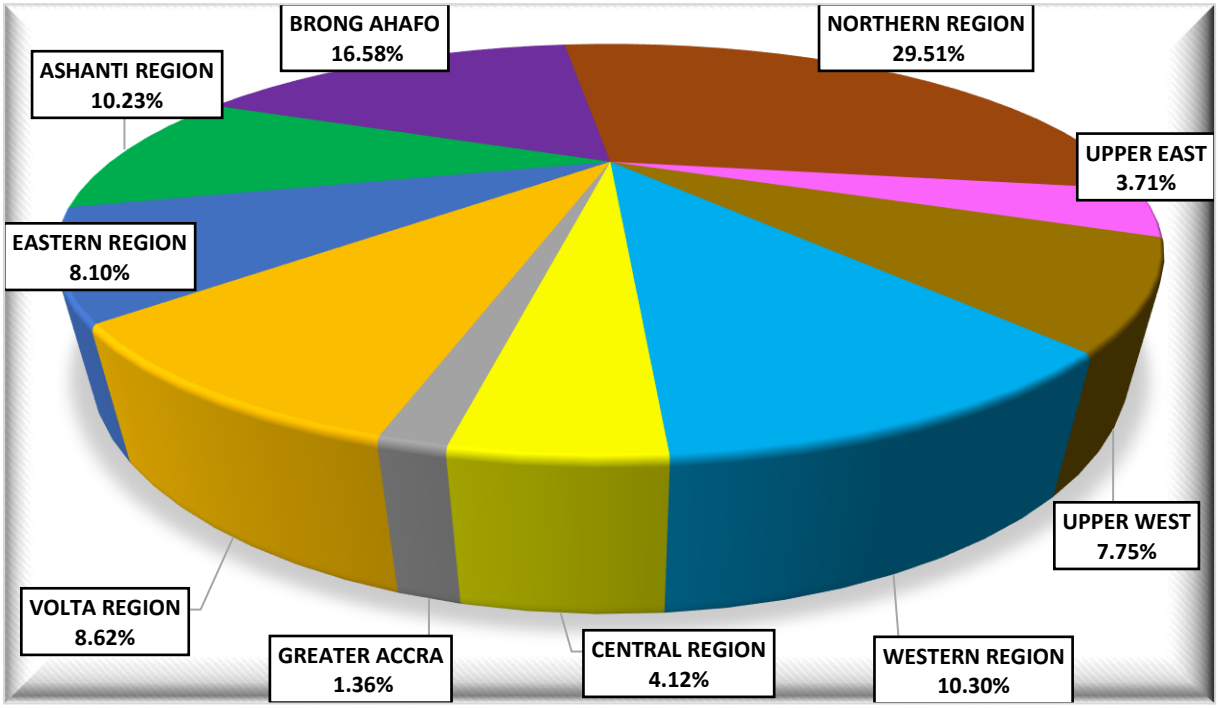
Source: Ministry of Food and Agriculture, Medium Term Agric. Development Program (MTADP), (1990).

Table 2.3: Land Area by Region

Region	('000) sq. km	% of Total
Western	23.92	10.03
Central	9.83	4.12
Greater Accra	3.24	1.36
Volta	20.57	8.62
Eastern	19.32	8.10
Ashanti	24.39	10.23
Brong Ahafo	39.56	16.58
Northern	70.38	29.51
Upper East	8.84	3.71
Upper West	18.48	7.75
Total	**238.53**	**100.00**

Source: The Ghana Survey Dept. Accra.

Figure. 1: Land Area by Region (%)



2.2: Vegetation

2.2.1: Land Cover

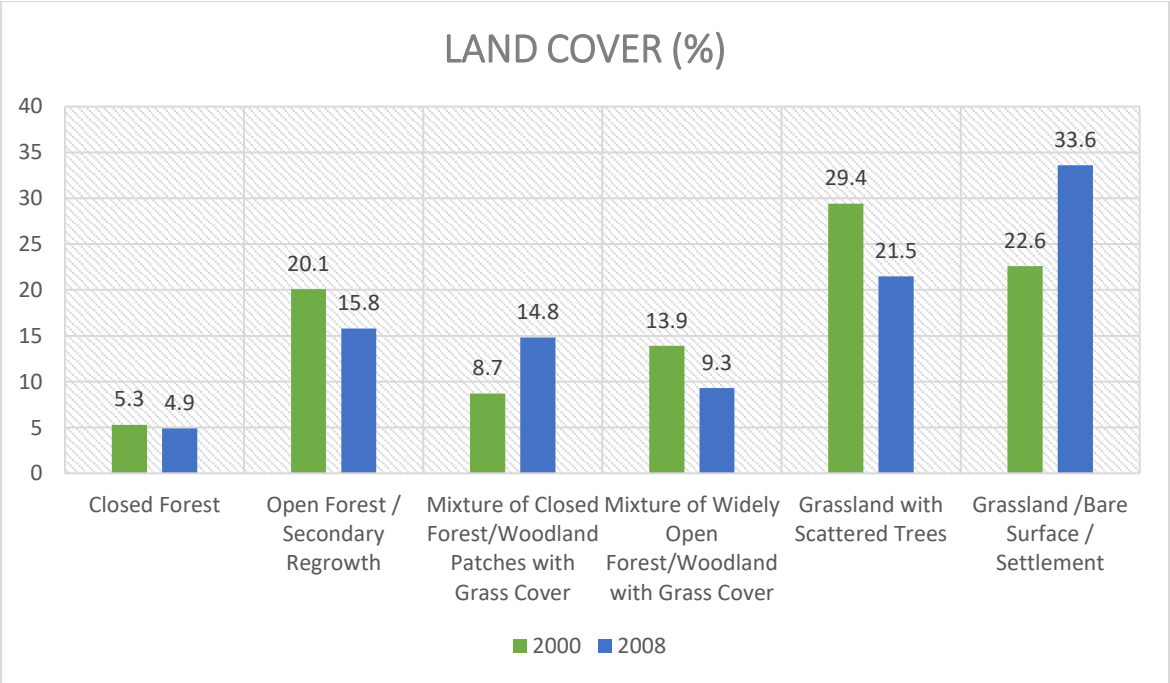
The current land cover information of the country is obtained from LANDSAT Thematic Mapper satellite data. It covers the period January 2000 to January 2008. The vegetation cover maps were assessed for land cover and associated land use changes during the reference period. Respective areas occupied by vegetation/land cover classes were digitally computed.

Table 2.4: Land Cover (Km^2)

CLASS	Year	
	2000	**2008**
Closed Forest	12,607	11,748
Open Forest / Secondary Regrowth	47,695	37,624
Mixture of Closed Forest/Woodland Patches with Grass Cover	20,684	35,183
Mixture of Widely Open Forest/Woodland with Grass Cover	33,080	22,145
Grassland with Scattered Trees	69,964	51,164
Grassland /Bare Surface / Settlement	53,718	79,884
TOTAL	**237,748**	**237,748**

Source: Ghana Strategic Investment Framework (GSIF) for Sustainable Land Management (SLM) 2011 – 2015, June, 2011.

Figure. 2: Area Statistics for the land cover/Use Classes (2000 & 2008)



Source: Ghana Strategic Investment Framework (GSIF) for Sustainable Land Management (SLIM) 2011 – 2015, June, 2011.

2.2.2: Agro-Ecological Zones

There are five main agro-ecological zones defined on the basis of climate, reflected by the natural vegetation and influenced by the soils. These are Rain Forest, Deciduous Forest, Transitional Zone, Coastal Savannah and Northern Savannah (Guinea and Sudan Savannah). See appendix for map.

Table 2.5: Rainfall Distribution by Agro-Ecological Zones

Agro-ecological Zone	Mean annual Rain (mm)	Growing Period (Days)	
		Major season	Minor season
Rain Forest	2,200	150 - 160	100
Deciduous Forest	1,500	150 - 160	90
Transitional	1,300	200 - 220	60
Coastal Savannah	800	100 - 110	50
Northern Savannah:			
Guinea Savannah	1,100	180 - 200	*
Sudan Savannah	1,000	150 - 160	*

Source: Ghana Meteorological Agency (GMet), Accra.

**Rainfall distribution is bimodal in the Forest, Transitional and Coastal Zones, giving a major and minor growing season; elsewhere (Guinea Savannah and Sudan Savannah), the unimodal distribution gives a single growing season.*

Table 2.6: Land Area of Vegetation by Zones

Vegetation Zone	Area ('000sq. km.)	% of Total
Guinea Savanna Woodland	147.90	62.00
Deciduous Forest		
- Celtis -Triplochiton Association	37.30	15.60
- Antiaris Chlorophora Association	27.00	11.30
Rain/Deciduous Forest Eco-zone	8.40	3.50
Rain Forest	7.50	3.20
Thicket and Grassland	4.50	1.90
Sudan Savanna Woodland	1.90	0.80
Swamp and Lagoonal Vegetation	1.30	0.60
Others	2.70	1.10
Total	**238.50**	**100.00**

Source: Ministry of Lands and Forestry, Accra

Q2.3: Soils

The soils have predominantly light textured surface horizons in which sandy loams and loams are common. Lower soil horizons have slightly heavier textures varying from coarse sandy loams to clays. Heavier textured soils occur in many valley bottoms and in parts of the Accra Plains. Many soils contain abundant coarse material either gravel and stone, or concretionary materials which affect their physical properties.

Table 2.7: Fertility Status of Soils in Some Regions

Region	Soil pH	(%) Organic matter	(%) Total Nitrogen	Available Phosphorus (mg/kg soil)	Available Calcium (mg/kg soil)
Ashanti:					
1. Offinso-Ejura	5.30-7.80	1.50-3.00	0.20-0.30	0.12-12.00	50.00-100.00
2. Kwadaso-Juaso, Obuasi	4.30-7.00	1.50-3.00	0.10-0.20	0.12-12.00	50.00-100.00
Western	3.80-7.10	1.03-5.70	0.06-5.40	0.35-11.25	28.00-420.00
Brong Ahafo	3.50-6.70	0.34-1.69	n.a.	0.12-64.25	16.00-140.30
Greater Accra	5.40-8.20	0.10-1.70	0.05-0.90	0.80-144.00	14.00-470.00
Upper East	5.10-6.80	1.10-2.50	0.06-0.14	1.75-14.75	43.50-151.50
Upper West	6.00-6.80	0.50-1.30	0.01-0.07	2.00-7.40	52.00-151.50
Northern	4.50-6.70	0.60-2.00	0.02-0.05	2.50-10.00	45.00-90.00

Source: Soil Research Institute, CSIR-Kumasi
n.a.: Not Available
Note: See Appendix 12 for soil-crop suitability map.

2.4: Farming Systems

Agriculture is predominantly on a smallholder basis in Ghana. Majority of farm holdings are less than 2 hectares in size, although there are some large farms and plantations, particularly for rubber, oil palm and coconut and to a lesser extent, rice, maize and pineapples. The main system of farming is traditional which involves the hoe and cutlass as tools mostly used. There is little mechanized farming, but bullock farming is practiced in some places, especially in the North. Agricultural production varies with the amount and distribution of rainfall. Soil factors such as texture, nutrient levels, ph, etc. also play an important role in the Agricultural production. Most food crop farms are intercropped. Monoculture is mostly associated with large-scale or commercial farms.

2.5: Climate

The climate of Ghana is tropical. The eastern coastal belt is warm and comparatively dry. The south west corner is hot and humid, and the north is hot and dry. Annual average temperatures range from 26.1 degrees Celsius in places near the coast to 28.9 degrees Celsius in the extreme north. It is usually breezy and sunny. Day time temperatures may rise above 40^0C in the north. There are two rainy seasons in the south from March to July and from September to October (bimodal rainfall system). The northern part of the country, on the other hand, has only one rainy season, from July to September (mono-modal rainfall system). These thus define the farming seasons of Ghana (Major and Minor seasons).

Table 2.8: Annual Regional Rainfall Data in mm (2006- 2015)

REGION	*2006*	*2007*	*2008*	*2009*	*2010*	*2011*	*2012*	*2013*	*2014*	*2015*	*10-YEAR Average*	*30-YEAR Average **	*(%) Change 2015/30 -Year Average*	*(%) Change 2015/2014*
ESTERN	1,350	1,678	1,518	1,385	1,749	1,445	1,298	1,025	1,654	1,144	1,456	1,558	(26.6)	(30.9)
CENTRAL	1,462	1,330	1,361	1,195	1,359	1,144	1,029	920	1,447	1,051	1,250	1,252	(16.1)	(27.4)
GREATER ACCRA	689	863	914	805	871	812	646	365	777	689	749	788	(12.6)	(11.4)
VOLTA	1,093	1,195	1,436	1,212	1,009	928	1,061	1,075	1,368	1,213	1,319	1,340	(9.5)	(11.4)
EASTERN	1,410	1,328	1,454	1,211	1,477	1,337	1,204	1,080	1,271	999	1,142	1,180	(15.3)	(21.4)
ASHANTI	1,384	1,542	1,412	1,380	1,397	1,170	1,224	1,215	1,381	1,025	1,346	1,345	(23.8)	(25.8)
BRONG AHAFO	1,310	1,312	1,366	1,148	1,251	823	1,049	1,814	1,239	1,048	1,257	1,244	(15.7)	(15.4)
NORTHERN	1,014	999	1,223	1,292	1,361	1,083	1,002	1,066	1,084	870	1,122	1,155	(24.7)	(19.8)
UPPER EAST	925	1,320	902	884	984	665	956	997	707	918	927	912	0.7	29.8
UPPER WEST	982	1,089	1,171	1,086	630	523	1,136	434	300	724	817	1,022	(29.2)	140.9
TOTAL	**11,619**	**12,656**	**12,757**	**11,598**	**12,088**	**9,929**	**10,605**	**9,992**	**11,228**	**9,679**	**11,385**	**11,796**	**(17.9)**	**(13.8)**
AVERAGE	**1,162**	**1,266**	**1,276**	**1,160**	**1,209**	**993**	**1,061**	**999**	**1,123**	**968**	**1,138**	**1,180**	**(17.9)**	**(13.8)**

Source: Ghana Meteorological Agency

**(1961 – 1990)*

SECTION 3: POPULATION IN AGRICULTURE

3.1: Rural and Urban Population in Agriculture

Rural population constitutes 49.1 per cent of total population in Ghana

Table 3.1: Distribution of Rural Population of Ghana by Region (2010)

Region	*Estimated Population*			*Estimated Rural Population*		*Population Density (Persons/km²)*
	Total Population	**(%) of Total**	**Inter-censal Growth Rate (%)**	**Total Rural Population**	**(%) Rural**	
Western	2,376,021	9.60	2.00	1,368,588	57.60	99.30
Central	2,201,863	8.90	3.10	1,164,786	52.90	224.10
Gt. Accra	4,010,054	16.30	3.10	380,955	9.50	1235.80
Volta	2,118,252	8.60	2.50	1,404,401	66.30	103.00
Eastern	2,633,154	10.70	2.10	1,490,365	56.60	136.30
Ashanti	4,780,380	19.40	2.70	1,883,470	39.40	196.00
Brong Ahafo	2,310,983	9.40	2.30	1,282,596	55.50	58.00
Northern	2,479,461	10.10	2.90	1,728,184	69.70	35.20
Upper East	1,046,545	4.20	1.20	826,771	79.00	118.40
Upper West	702,110	2.80	1.90	587,666	83.70	38.00
Total/Average	**24,658,823**	**100.00**	**2.50**	**12,117,781**	**49.10**	**103.00**

Source: Ghana Statistical Services (GSS): 2010 Population and Housing Census: National Analytical Report (May 2013)

Table 3.2: Distribution of Agricultural Rural Households by Region

Region	*Total Households (HHs)*			*Rural Households*		
	No.	Agriculture	(%) of Total	No.	Agriculture	(%) of Total
All Regions	**5,467,136**	**2,503,006**	**45.80**	**2,417,800**	**1,820,431**	**75.29**
Western	553,635	275,975	49.80	304,716	220,634	72.40
Central	526,764	270,854	51.40	271,408	198,703	73.20
Greater Accra	1,036,426	68,715	6.60	86,090	26,981	31.30
Volta	495,603	291,224	58.80	316,789	231,737	73.20
Eastern	632,048	374,257	59.20	338,498	257,652	76.10
Ashanti	1,126,216	412,055	36.60	410,743	275,003	67.00
Brong Ahafo	490,519	336,097	68.50	254,232	214,136	84.20
Northern	318,119	240,238	37.00	212,048	190,901	90.00
Upper East	177,631	148,660	83.70	135,688	127,082	93.70
Upper West	110,175	84,931	77.10	87,546	77,602	88.60

Source: GSS, 2010 Population and Housing Census, National Analytical Report (May 2013)

Table 3.3: Distribution of Agriculture by Urban Households

Region	*Total Households (HHs)*			*Urban Households*		
	No.	Agriculture	(%) of Total	No.	Agriculture	(%) of Total
All Regions	**5,467,136**	**2,503,006**	**45.80**	**3,049,366**	**662,775**	**22.00**
Western	553,635	275,975	49.80	248,919	55,341	22.20
Central	526,764	270,854	51.40	255,365	72,151	28.30
Greater Accra	1,036,426	68,715	6.60	950,336	41,734	4.40
Volta	495,603	291,224	58.80	178,814	59,487	33.30
Eastern	632,048	374,257	59.20	293,547	116,605	39.70
Ashanti	1,126,216	412,055	36.60	715,462	117,052	16.40
Brong Ahafo	490,519	336,097	68.50	236,283	121,961	51.60
Northern	318,119	240,238	37.00	106,071	49,537	46.70
Upper East	177,631	148,660	83.70	41,941	21,578	51.40
Upper West	110,175	84,931	77.10	22,628	7,329	32.40

Source: GSS, 2010 Population and Housing Census, National Analytical Report, May 2013

3.2: Distribution of Economically Active Population (15years and older) by Region

Table 3.4: Economically Active Population (15 years and older) by Region (2010)

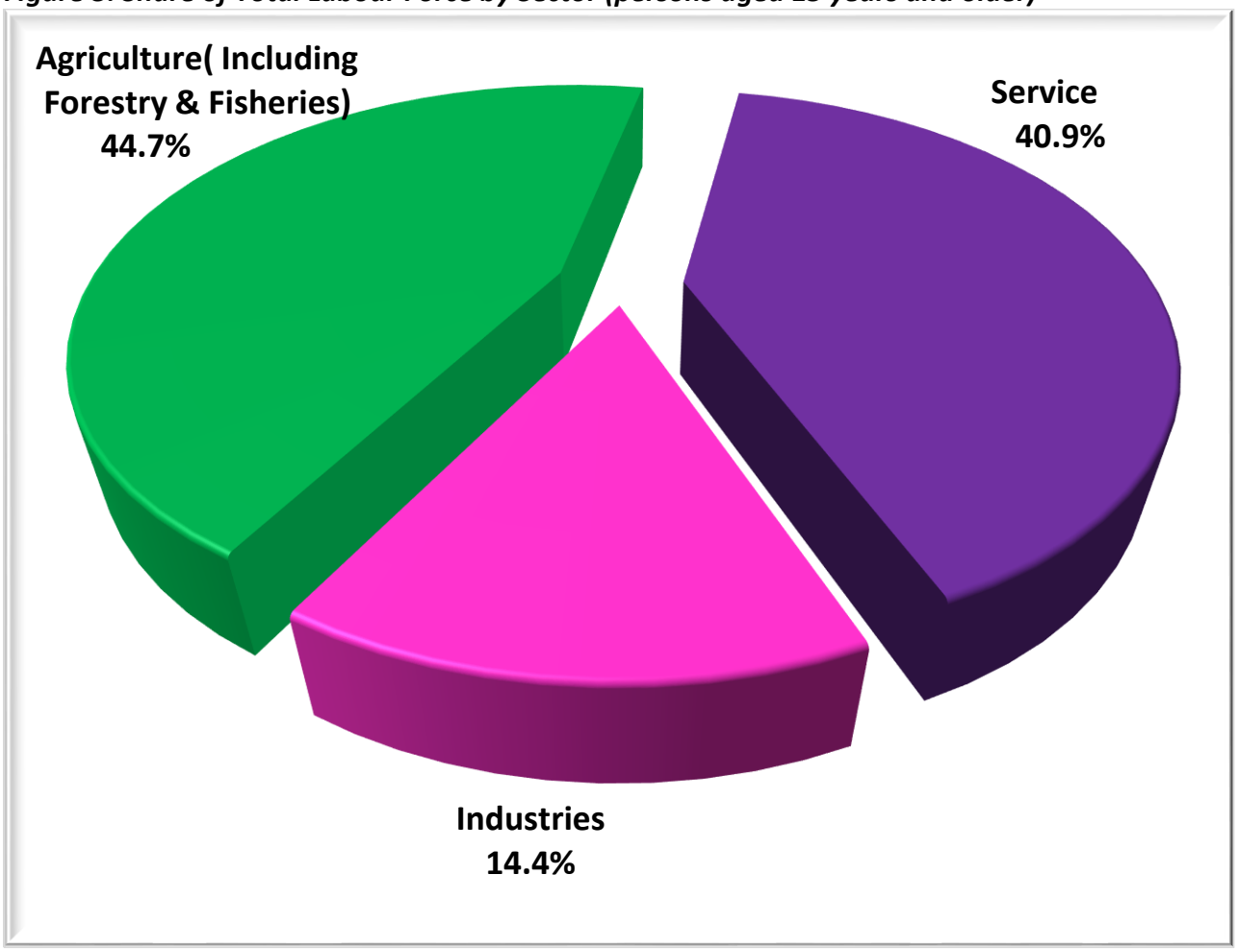
Region	Economically Active (ECA) Population		Number of ECA Population Employed		Distribution of Economically Active Population by Region and Sex				No. of ECA Population Employed by Sex	
	(Both sexes)	(%) of Total	(Both sexes)	(%) of Total	Male	(%) of Total	Female	(%) of Total	Male	Female
All Regions	**10,876,470**	**100.00**	**10,243,476**	**100.00**	**5,288,880**	**100.00**	**5,587,590**	**100.00**	**5,005,534**	**5,237,942**
Western	1,021,301	9.40	962,887	9.40	518,839	9.80	503,442	9.00	491,043	470,891
Central	934,289	8.60	880,939	8.60	428,928	8.10	503,442	9.00	405,949	476,129
Greater Accra	1,967,553	18.10	1,802,852	17.60	941,950	17.80	995,150	17.80	891,486	910,878
Volta	912,536	8.40	870,695	8.50	434,217	8.20	481,091	8.60	410,954	460,415
Eastern	1,173,571	10.80	1,116,539	10.90	571,728	10.80	609,606	10.90	541,098	570,412
Ashanti	2,076,318	19.10	1,925,773	18.80	1,000,127	18.90	1,067,788	19.10	946,546	978,971
Brong Ahafo	1,032,177	9.50	983,374	9.60	518,839	9.80	520,205	9.30	491,043	497,081
Northern	1,021,301	9.40	983,374	9.60	518,839	9.80	514,617	9.20	491,043	491,843
Upper East	455,724	4.20	440,469	4.30	217,373	4.10	240,825	4.30	205,727	235,184
Upper West	281,701	2.60	276,574	2.70	138,040	2.60	151,424	2.70	130,644	146,139

Source: GSS, 2010 Population and Housing Census, National Analytical Report, May 2013

3.3: Distribution of Labour Force by Economic Activity

Figure 3 presents the share (%) of total labour force (no. of persons in employment) for persons aged 15 years and older, by economic activity (sector). The Ghanaian Economy is broadly categorised into three sectors, namely; Agriculture (including Forestry and Fishing), Industry and Service. As indicated, Agriculture's contribution to total employment is estimated to be 44.7 per cent, with the Service and Industry sectors accounting for 40.9 per cent and 14.4 per cent respectively (GLSS6, 2014). This means, Agriculture has regained its position as the largest employer, after dropping second to the Service's Sector, as reported in the 2010 population census. Refer to Appendix 19 for further details.

Figure 3: Share of Total Labour Force by Sector (persons aged 15 years and older)



Source: GSS, Ghana Living Standard Survey, Sixth round (GLSS6), with Labour Force Module, August, 2014

SECTION 4: AGRICULTURAL OUTPUT

4.1: Crop Sub-Sector

4.1.1: Principal Agricultural Produce

- **Industrial Crops**: Cocoa, Oil Palm, Coconut, Coffee, Cotton, Kola, Rubber, Cashew, Shea, Soya bean.
- **Starchy staples, Cereals and Legumes:** Cassava, Cocoyam, Yam, Plantain, Maize, Rice, Millet, Sorghum, Cowpea and Groundnut.
- **Fruits and Vegetables:** Pineapple, Citrus, Banana, Pawpaw, Mango, Tomato, Pepper, Okro, Egg Plant, Onion, Butternut squash, Asian Vegetables.

Table 4.1: Annual Area Planted to Major Food Crops, ('000Ha)

Crop	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Maize	793	790	846	954	992	1,023	1,042	1,023	1,025	880
Millet	200	163	182	187	177	179	172	161	162	162
Rice	125	109	133	162	181	197	189	216	224	233
Sorghum	320	208	276	267	253	243	231	226	227	228
Cassava	790	801	840	886	875	889	869	875	889	917
Cocoyam	260	258	252	225	205	204	196	194	200	200
Plantain	299	305	312	325	328	336	337	340	357	363
Yam	325	324	348	379	385	204	426	422	428	430
Soya Bean	52	47	62	77	91	86	85	85	87	86
Groundnut	480	342	351	337	333	357	345	329	335	336
Cowpea	185	139	161	163	167	182	169	162	166	163

Source: Regional and District Cropped Area, Yield and Production Estimates (MRACLs/GAPs) - Statistics, Research and Information Directorate (SRID), MoFA.

Table 4.2: Annual Area Planted to Other Selected Crops, ('000 Ha)

CROP	2010	2011	2012	2013	2014	2015
Cocoa	1,600.20	1,600.30	1,600.80	1,650.80	1,683.77	1,717.44
Oil Palm	367.10	381.80	397.10	409.10	349.04	425.60
Cashew	77.00	82.00	86.50	89.00	90.78	92.60
Coconut	25.20	25.30	25.30	26.10	26.60	27.15
Rubber	25.50	25.80	26.00	26.80	27.35	27.88
Citrus	16.00	16.20	16.50	17.00	17.34	17.69
Coffee	0.40	0.40	0.40	0.50	0.46	0.47
Mango	6.90	7.00	7.20	7.40	7.55	7.70
Banana	7.30	7.50	7.60	7.80	7.96	8.12
Pawpaw	1.00	1.20	1.50	1.60	1.50	1.61
Pineapple	9.50	9.80	10.00	10.30	10.50	10.72
Tomato	44.20	44.50	44.80	46.10	47.02	47.96
Pepper (Chilli)	13.20	13.40	13.70	14.10	14.40	14.68
Shallot	5.00	5.20	5.20	5.40	5.46	5.57
Okro	2.60	2.80	3.00	3.10	3.16	3.23
Onion	7.00	7.50	8.00	8.30	8.42	8.58
Garden Eggs	5.00	5.50	6.00	6.20	6.33	6.45

Source: Statistics, Research and Information Directorate (SRID), MoFA _MRACLS/GAPS (From 2011-2015).

Table 4.3: Mean Annual Growth Rates for Area Planted to Selected Food Crops

CROP	Average Area ('000 Ha)		Growth	Average Area ('000 Ha)		Growth
	2004-2006	2007-2009	Rate (%)	2010-2012	2013-2015	Rate (%)
Maize	755.3	863.6	4.52	1019	976.01	-1.41
Rice (Paddy)	121.47	134.7	3.47	183.13	224.3	6.92
Millet	189.07	177.2	-2.12	175.97	161.68	-2.76
Sorghum	307.7	250.53	-6.56	242.3	226.91	-2.14
Cassava	774.63	842.07	2.79	877.63	893.6	0.60
Cocoyam	261.5	244.67	-2.17	202	198.13	-0.64
Yam	311.97	349.97	3.87	405	426.54	1.72
Plantain	290.07	314	2.65	333.93	352.77	1.83
Groundnut	453.9	342.93	-8.84	345.13	333.06	-1.17
Oil Palm	298.97	330.17	3.33	367.83	-	-100.00
Cowpea	182.8	154.27	-5.45	172.7	163.57	-1.78
Soyabean	44.87	61.97	11.24	82.43	85.89	1.36

Source: Based on Table 4.1 and Appendix 16
The average of 2010 to 2012 compared with average of 2013 to 2015 and average of 2004 to2006 compared with average of 2007 to 2009.

Table 4.4: Annual Production of Major Food Crops, ('000Mt)

Crop	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Maize	1,189	1,220	1,470	1,620	1,872	1,683	1,950	1,764	1,769	1,692
Millet	165	113	194	246	219	183	180	155	155	157
Rice (paddy)	250	185	302	391	492	463	481	570	604	641
Rice (milled)*	150	111	181	235	295	278	332	393	417	443
Sorghum	315	155	331	351	324	287	280	257	259	263
Cassava	9,638	10,218	11,351	12,231	13,504	14,240	14,547	15,990	16,524	17,213
Cocoyam	1,660	1,690	1,688	1,504	1,355	1,299	1,270	1,261	1,299	1,301
Plantain	2,900	3,234	3,338	3,563	3,538	3,619	3,556	3,675	3,828	3,952
Yam	4,288	4,376	4,895	5,778	5,960	5,855	6,639	7,075	7,119	7,296
Groundnut	520	302	47	485	531	465	475	409	427	417
Cowpea	167	119	180	205	219	237	223	200	201	203
Soya bean	54	50	75	113	145	165	152	139	141	142
Total	**21,146**	**21,662**	**23,871**	**26,487**	**28,159**	**28,496**	**29,753**	**31,495**	**32,326**	**33,277**

Source: Regional and District Cropped Area, Yield and Production Estimates (2006 – 2015) - Statistics, Research and Information Directorate (SRID), MoFA.
*Note: *Milled rice from 2006 to 2011 used extraction rate of 60%; from 2012-2015 extraction rate of 69% of paddy was used (based on revised industry records). The total annual production for all major crops does not include milled rice.*

4.1.2 Leading Producers of Some Selected Crops Grown in Ghana

Figures 4a to 4c present the five leading (top) regions, based on a 3-year average production (2013-2015), for some selected crops grown in Ghana. Categories of crops considered are; cereals (Maize, Rice, Sorghum), roots and tubers (Cassava and Yam) and legumes (Cowpea).

Further details are presented in appendix 25

4a: Cereals

Fig 4a$_1$ Maize

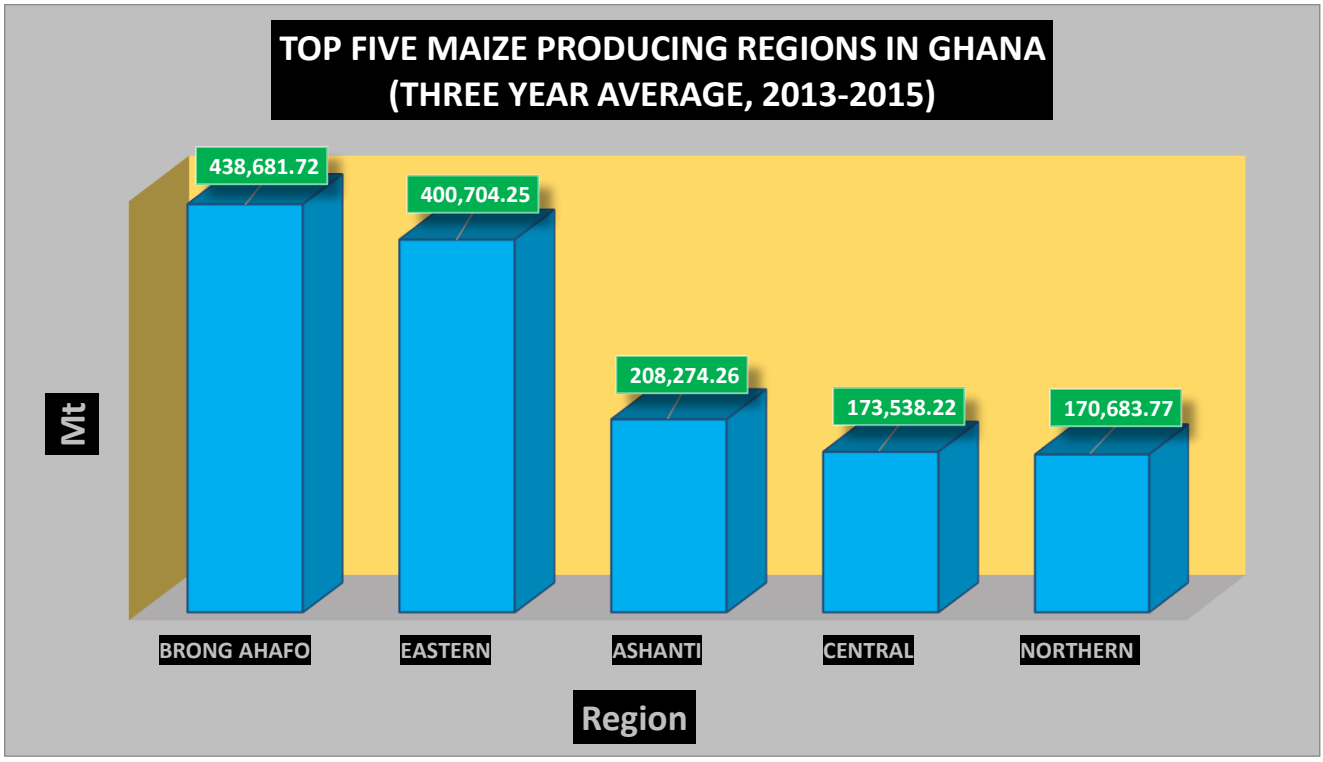


Fig 4a$_2$ Rice

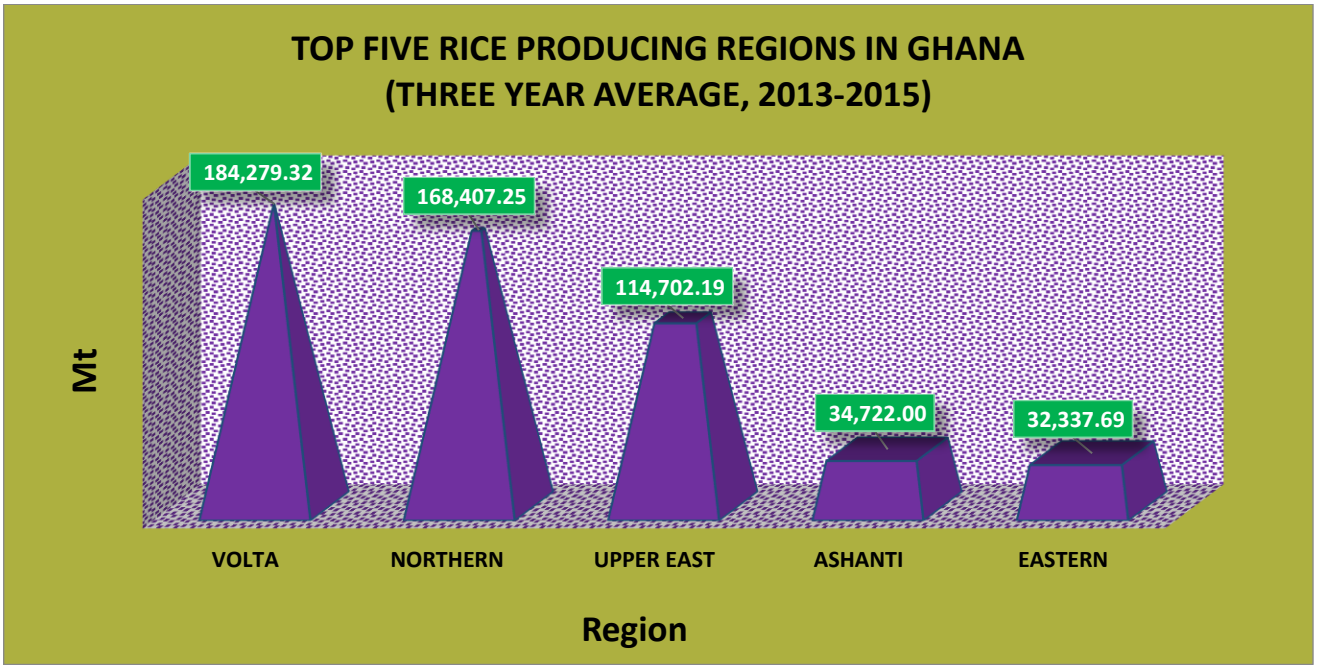
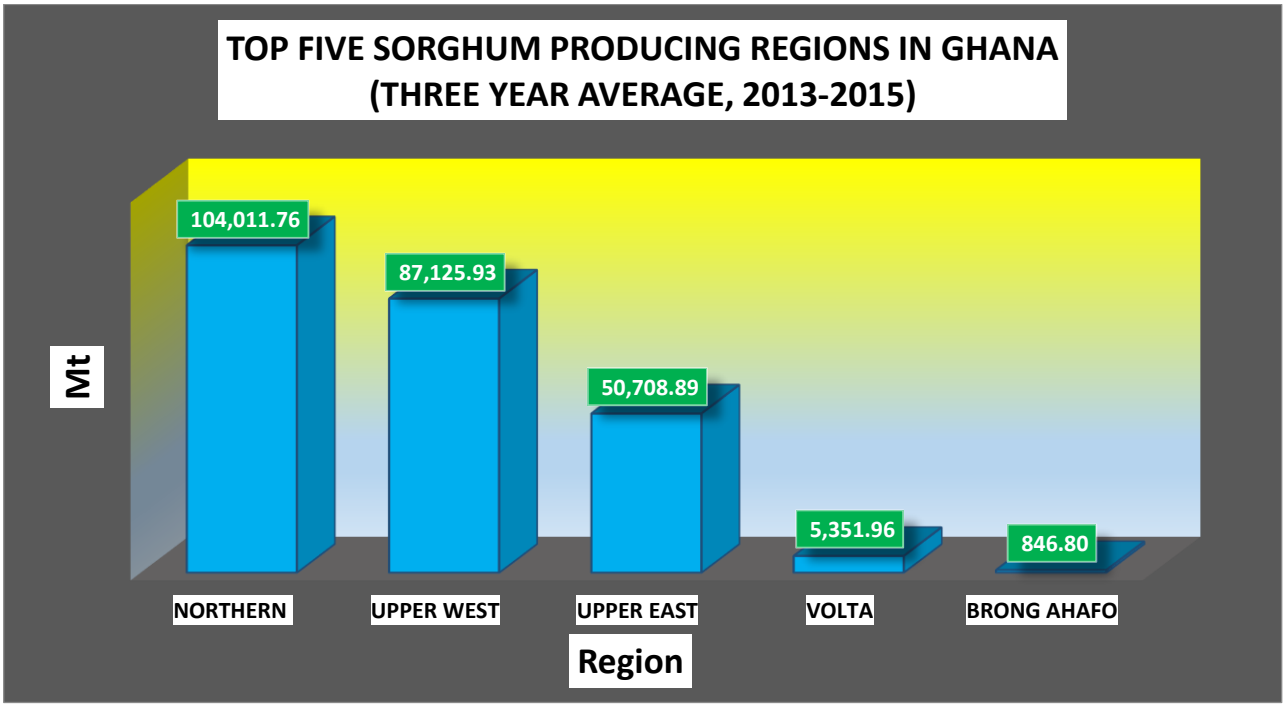


Fig 4a$_3$ Sorghum



4b: Roots and Tubers

Fig 4b$_1$ Cassava

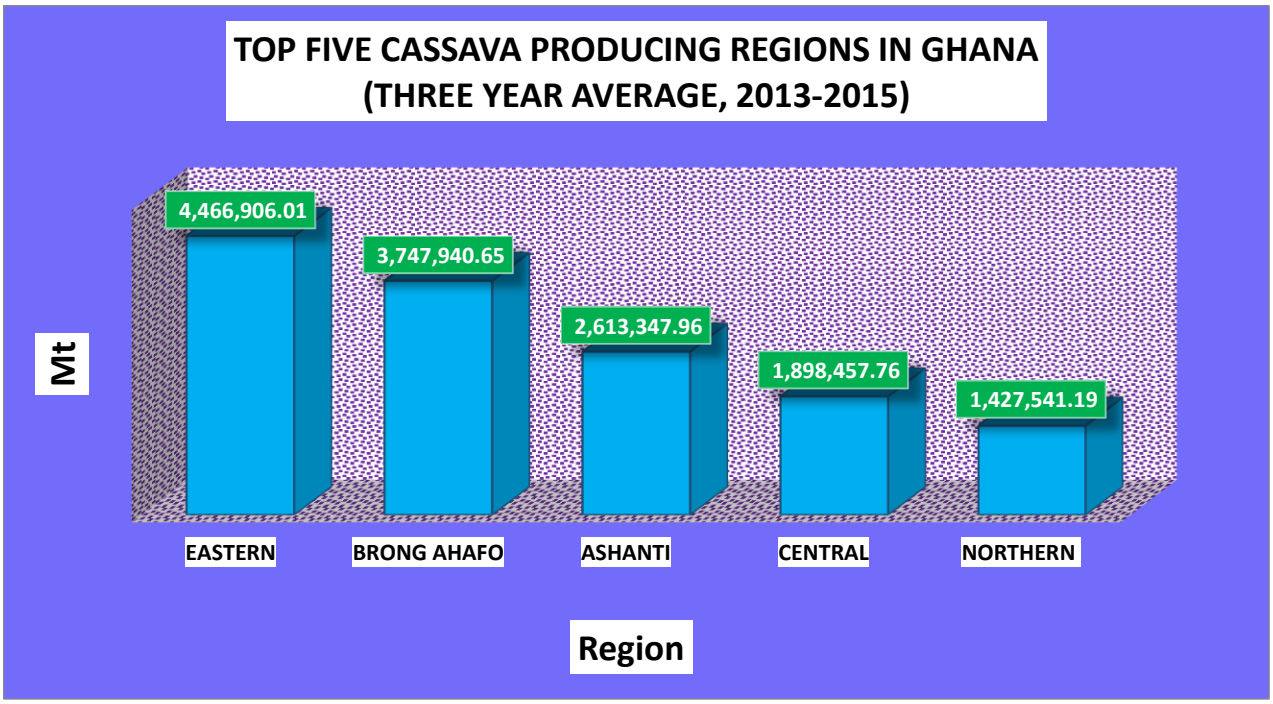


Fig 4b$_2$ Yam

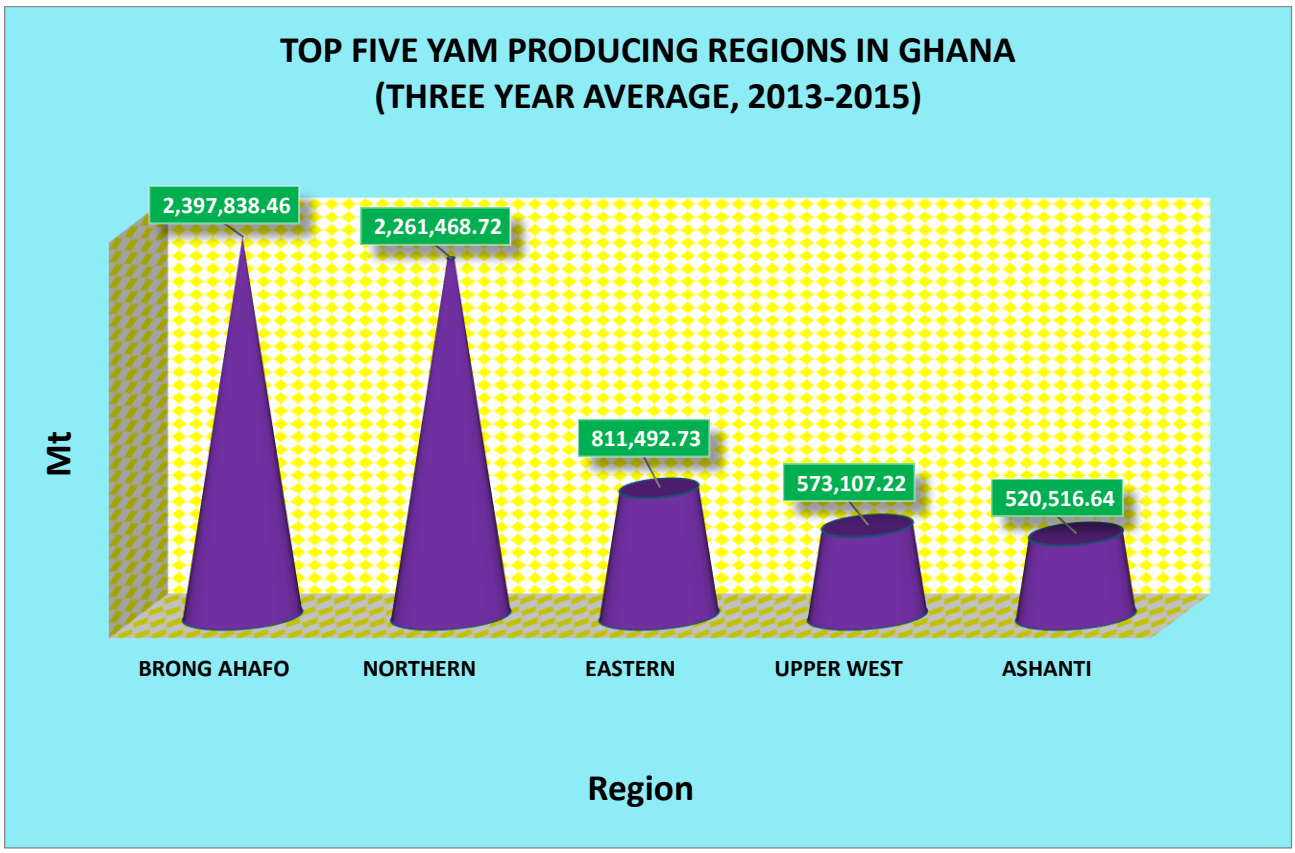


Fig 4c Legumes

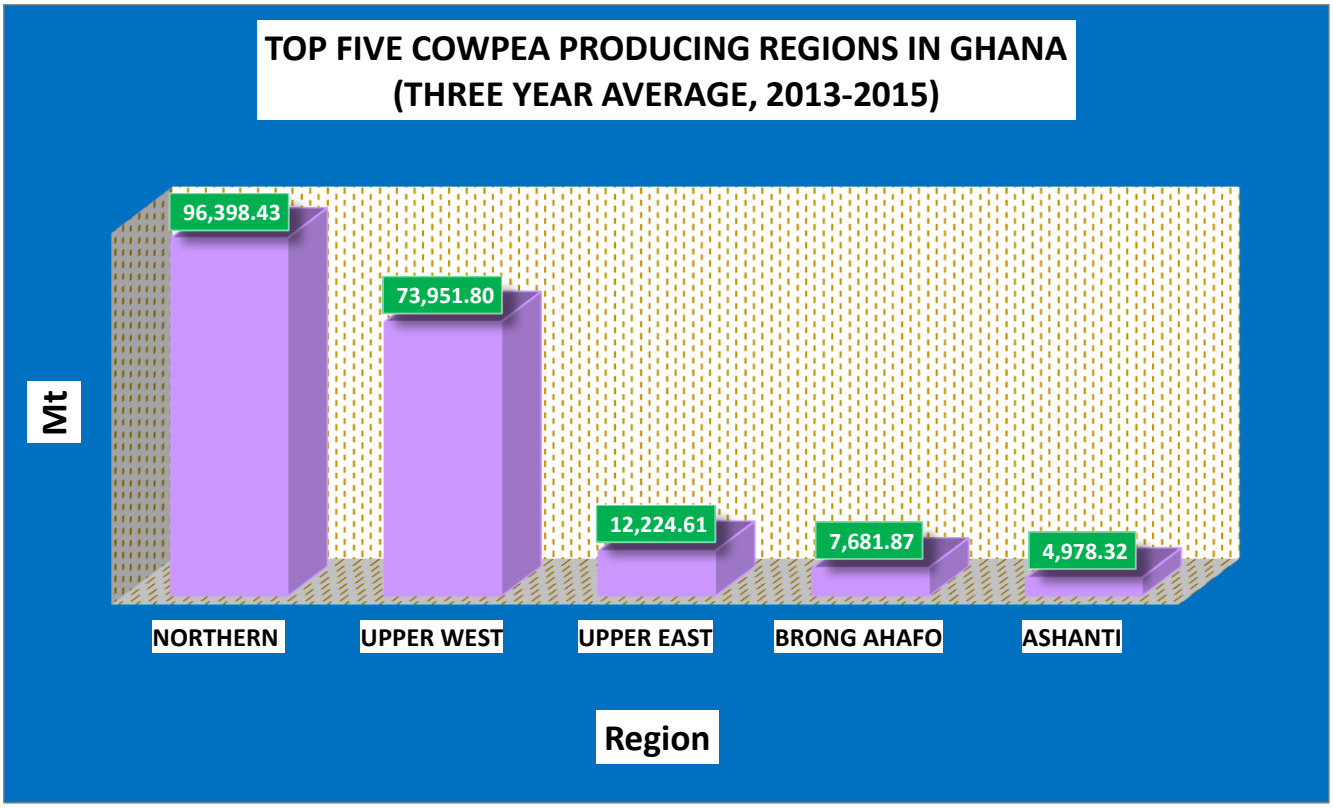
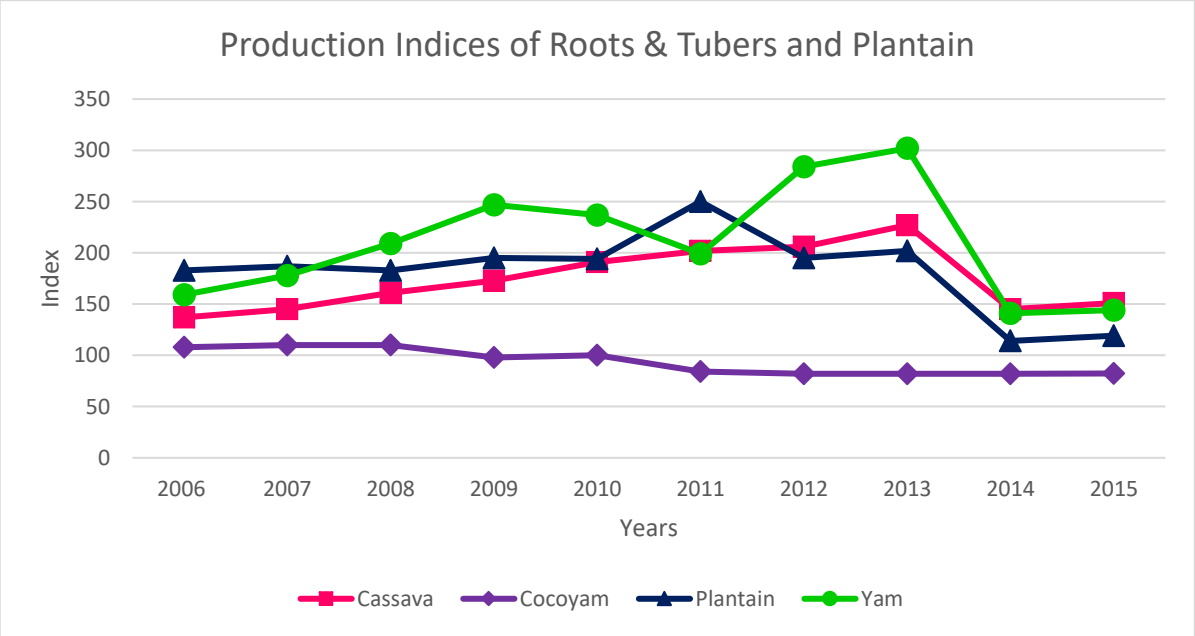


Table 4.5: Indices of Annual Production of Selected Food Crops

Crop	2006	2007	2008	2009	2010	2011	2012	2013	*2014	*2015
Maize	119	122	147	162	187	168	195	176	120	115
Millet	98	67	115	146	130	228	107	92	83	84
Rice (paddy)	121	90	146	190	239	109	233	275	186	198
Sorghum	92	45	97	102	94	84	82	75	88	89
Cassava	137	145	161	173	191	202	206	227	145	151
Cocoyam	108	110	110	98	100	84	82	82	82	82
Plantain	183	187	183	195	194	250	195	202	114	119
Yam	159	178	209	247	237	199	284	302	141	144
Groundnut	375	218	339	350	383	336	343	295	92	90
Cowpea	310	221	334	380	407	439	414	372	113	114

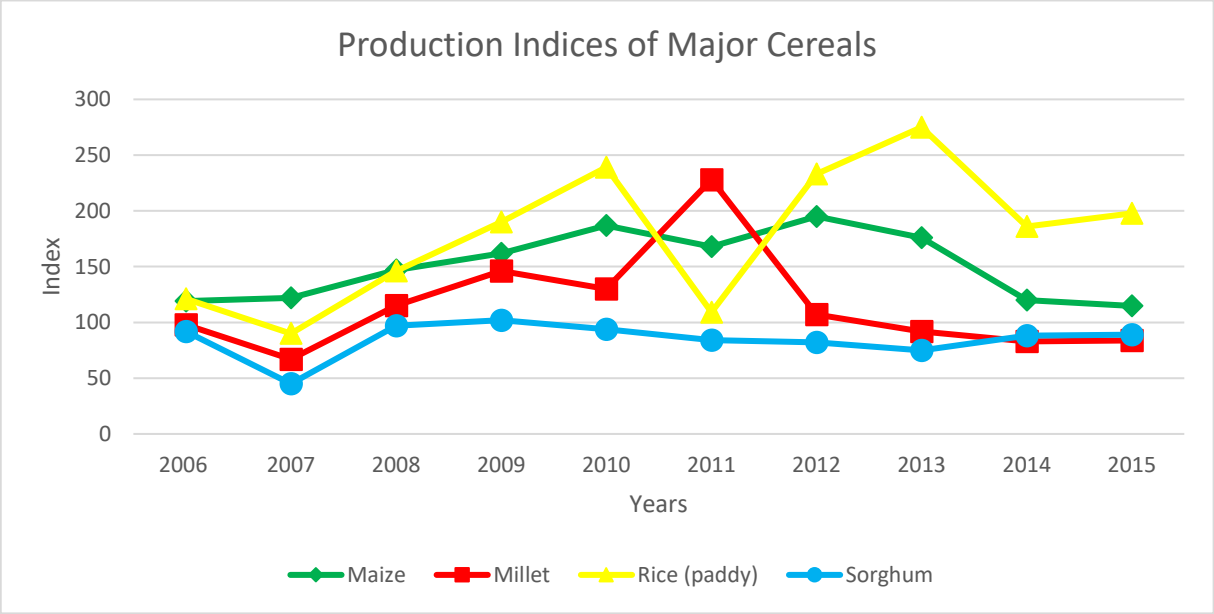
Source: Based on Table 4.4
Average of 1996 – 1997 used as base year for 2006 – 2013
**Average of 2006-2010 used as base year (2006-2010=100)*

Figure 4d: Production Indices of Starchy Staples



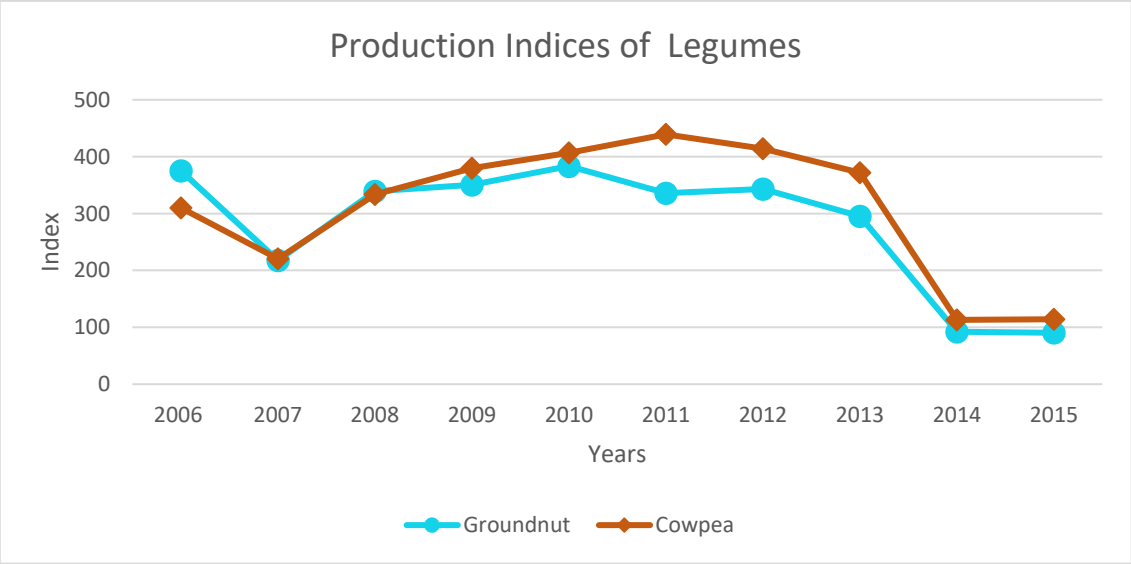
Source: Based on Table 4.5
Year 2006 to 2013 were calculated using average of 1996-97 as base year, Year 2014 and 2015 were calculated using average of 2006 to 2010 as base year.

Figure 4e: Production Indices of Major Cereals



Source: Based on Table 4.5
Year 2006 to 2013 were calculated using average of 1996-97 as base year, Year 2014 and 2015 were calculated using average of 2006 to 2010 as base year.

Figure 4f: Production Indices of Major Legumes



Source: Based on Table 4.5
Year 2006 to 2013 were calculated using average of 1996-97 as base year, Year 2014 and 2015 were calculated using average of 2006 to 2010 as base year.

Table 4.6: Mean Annual Production Growth Rates of Selected Crops

CROP	Average Production ('000 Mt)		Growth Rate (%)	Average Production ('000 Mt)		Growth Rate (%)
	2004-2006	2007-2009		2010-2012	2013-2015	
Maize	1,172.60	1,436.43	6.93	1,835.20	1,741.68	-1.71
Rice (Paddy)	242.77	292.87	6.39	478.90	604.83	8.01
Millet	154.47	184.10	5.96	194.23	155.81	-7.02
Sorghum	300.47	278.80	-2.44	306.70	259.57	-5.36
Cassava	9,647.80	11,266.53	5.25	14,097.43	16,575.52	5.49
Cocoyam	1,687.23	1,627.47	-1.18	1,308.23	1,287.16	-0.53
Yam	4,034.37	5,016.27	7.45	6,118.17	7,163.16	5.34
Plantain	2,690.80	3,377.97	7.79	3,571.33	3,816.38	2.21
Groundnuts	443.20	419.00	-1.84	490.37	417.36	-5.18
Oil Palm	1,712.43	1,894.97	3.40	2,108.67	-	-
Cowpea	150.73	167.87	3.62	226.40	201.52	-3.77
Soybean	43.13	79.13	22.17	153.70	140.72	-2.87

Source: Based on table 4.4 and Appendix 1. 5Growth Rate is based on the comparison of the average of 2004 – 2006 with the average of 2007 – 2009 and the average of 2010 - 2012 with average of 2013 – 2015.

Table 4.7: Average Yield of Selected Crops under Rain-fed Conditions

Crop	Average Yield (On Farm) (Mt/Ha) 2015	Potential Yield (Mt/Ha)*	% Achieved
Cassava	18.78	45.00	41.73
Plantain	10.90	38.00	28.68
Yam	16.96	52.00	32.62
Cocoyam	8.00	20.00	40.00
Maize	1.92	5.50	34.91
Rice (Paddy)	2.75	6.00	45.83
Cowpea	1.25	2.50	50.00
Soya bean	1.65	3.00	55.00
Groundnut	1.65	3.50	47.14
Millet	1.00	2.00	50.00
Sorghum	1.10	2.00	55.00
Sweet Potato	15.00	56.00	26.79
Taro	7.00	20.00	35.00
Cocoa	0.50	1.00	50.00
Coffee	1.60	-	-
Cashew	0.50	1.80	27.78
Orange	40.00	100.00	40.00
Pawpaw	34.50	75.00	46.00
Mango	-	13.00	-
Pineapple	61.80	72.00	85.83
Cotton	0.80	-	-
Rubber	0.80	-	-
Tobacco	1.60	-	-
Tomato	10.00	20.00	50.00
Garden eggs	7.90	15.00	52.67
Pepper	15.00	30.00	50.00

**Note: Potential yields refer to yields that have been achieved in cases where more effective extension and use of recommended technologies have occurred. The dashes indicate crops for which no on-farm research findings were available as far as potential yields were concerned. Data on potential yields have been revised in line with new findings by the C RI, Kumasi*

4.1.3 Crop Yield Performances by District

The following tables (Tables 4.7.1 to 4.7.3) show yield performances by the top-ten performing districts for some selected crops grown in Ghana. The category of crops assessed include; the cereals, roots and tubers (including plantain) and legumes. The top performers were determined using a three year average yield. As indicated, the tables compare average yield (2013-2015) by district, with both the national average and potential (achievable) yields for each crop.

Table 4.7.1: Cereals

Tables 4.7.1a to 4.7.1d present average yield performances by district for maize, rice, millet and sorghum.

Table 4.7.1a Average Yield Performance for Maize by District (Top 10 Districts)

MAIZE (Mt/Ha)							National Average	1.92
							Potential Yield	5.50
Region	**District**	**2013**	**2014**	**2015**	**3-yr Avg.**	**Rank**	**Avg. Yield as % of National Avg.**	**Avg. Yield as % of Potential Yields**
Eastern	West Akim	3.44	3.45	3.96	3.62	1	188.37	65.82
Upper West	Sissala East	3.15	2.96	3.21	3.11	2	161.81	56.55
Eastern	Birim Central	2.51	2.60	2.99	2.70	3	140.63	49.09
Eastern	Birim South	2.52	2.55	2.93	2.67	4	138.89	48.55
Central	Assin South	2.40	2.38	3.17	2.65	5	138.02	48.18
Upper West	Sissala West	2.65	2.52	2.73	2.63	6	137.15	47.82
Ashanti	Bekwai municipal (Amansie East)	2.40	2.50	2.84	2.58	7	134.38	46.91
Central	Twifo-Herman/L. Denkyira	2.10	2.40	3.19	2.56	8	133.51	46.55
Eastern	Akuapim North	2.40	2.45	2.81	2.55	9	132.99	46.36
Eastern	Afram Plains	2.30	2.45	2.81	2.52	10	131.25	45.82

Table 4.7.1b: Average Yield Performance for Rice by District (Top 10 Districts)

RICE (Mt/Ha)							National Average	2.75
							Potential Yield	6.00
Region	**District**	**2013**	**2014**	**2015**	**3-yr Avg.**	**Rank**	**Avg. Yield as % of National Avg.**	**Avg. Yield as % of Potential Yields**
Greater Accra	Dangbe West	6.51	6.72	6.98	6.74	1	245.09	112.33
Volta	Ketu North	5.90	6.10	6.31	6.10	2	221.82	101.67
Volta	Jasikan	3.96	6.17	6.38	5.50	3	200.00	91.67
Greater Accra	Ga West	5.30	5.42	5.64	5.45	4	198.18	90.83
Greater Accra	Ashaiman	5.30	5.39	5.61	5.43	5	197.45	90.50
Central	Gomoa East	5.50	5.14	4.63	5.09	6	185.09	84.83
Greater Accra	Ga East	5.30	4.69	4.88	4.96	7	180.36	82.67
Volta	Biakoye	4.14	4.36	4.51	4.34	8	157.82	72.33
Volta	South Tongu	4.00	4.29	4.44	4.24	9	154.18	70.67
Volta	Kadjebi	3.82	4.03	4.17	4.01	10	145.82	66.83

Table 4.7.1c: Average Yield Performance for Millet by District (Top 10 Districts

MILLET (Mt/Ha)							National Average	1.00
							Potential Yield	2.00
Region	**District**	**2013**	**2014**	**2015**	**3-yr Avg.**	**Rank**	**Avg. Yield as % of National Avg.**	**Avg. Yield as % of Potential Yields**
Northern	Zabzugu/Tatale	2.40	2.32	2.39	2.37	1	237.00	118.50
Northern	West Gonja	1.82	1.80	1.86	1.83	2	183.00	91.50
Northern	Kpandai	1.65	1.80	1.86	1.77	3	177.00	88.50
Northern	East Gonja	1.79	1.64	1.69	1.71	4	171.00	85.50
Northern	Nanumba North	1.40	1.58	1.63	1.54	5	154.00	77.00
Northern	Bunkpurugu/Yunyoo	1.54	1.50	1.55	1.53	6	153.00	76.50
Northern	Tolon/Kumbungu	1.68	1.43	1.47	1.52	7	152.00	76.00
Northern	Savelugu/Nanton	1.48	1.45	1.49	1.47	8	147.00	73.50
Northern	Saboba	1.40	1.37	1.41	1.39	9	139.00	69.50
Northern	Chereponi	1.32	1.40	1.44	1.39	10	139.00	69.50

Table 4.7.1d: Average Yield Performance for Sorghum by District (Top 10 Districts)

SORGHUM (Mt/Ha)							National Average	1.10
							Potential Yield	2.00
Region	**District**	**2013**	**2014**	**2015**	**3-yr Avg.**	**Rank**	**Avg. Yield as % of National Avg.**	**Avg. Yield as % of Potential Yields**
Northern	Nanumba North	1.98	2.20	1.93	2.04	1	185.45	102.00
Northern	Kpandai	1.85	2.10	1.84	1.93	2	175.45	96.50
Brong Ahafo	Atebubu -Amantin	1.88	1.89	1.64	1.80	3	163.64	90.00
Northern	Tolon/Kumbungu	1.89	1.81	1.59	1.76	4	160.00	88.00
Northern	Nanumba South	1.96	1.74	1.52	1.74	5	158.18	87.00
Northern	Tamale Metro	1.89	1.77	1.55	1.74	6	158.18	87.00
Northern	East Gonja	1.96	1.68	1.47	1.70	7	154.55	85.00
Northern	Saboba	1.68	1.79	1.57	1.68	8	152.73	84.00
Northern	Chereponi	1.68	1.68	1.47	1.61	9	146.36	80.50
Northern	Zabzugu/Tatale	1.69	1.65	1.45	1.60	10	145.45	80.00

Table 4.7.2 Roots and Tubers (Including Plantain)

Tables 4.7.2a to 4.7.2c present average yield performances by district for cassava, yam and plantain.

Table 4.7.2a: Average Yield Performance for Cassava by District (Top 10 Districts)

CASSAVA (Mt/Ha)							National Average	18.78
							Potential Yield	45.00
Region	**District**	**2013**	**2014**	**2015**	**3-yr Avg**	**Rank**	**Avg. Yield as % of National Avg.**	**Avg. Yield as % of Potential Yields**
Ashanti	Sekyere East	40.00	41.00	41.23	40.74	1	216.93	90.53
Eastern	Atiwa	34.50	34.40	34.88	34.59	2	184.19	76.87
Central	Assin South	30.23	30.14	30.21	30.19	3	160.76	67.09
Brong Ahafo	Dormaa East	30.20	29.73	28.78	29.57	4	157.45	65.71
Eastern	West Akim	27.50	27.50	27.88	27.63	5	147.12	61.40
Eastern	Akuapim North	25.90	26.00	26.36	26.09	6	138.92	57.98
Ashanti	Amansie West	26.00	26.00	26.15	26.05	7	138.71	57.89
Ashanti	Bekwai municipal (Amansie East)	25.00	26.00	26.15	25.72	8	136.95	57.16
Eastern	Kwahu West	25.50	25.50	25.86	25.62	9	136.42	56.93
Eastern	Suhum Kraboa Coaltar	25.10	25.30	25.65	25.35	10	134.98	56.33

Table 4.7.2b: Average Yield Performance for Yam by District (Top 10 Districts)

YAM (Mt/Ha)							National Average	16.69
							Potential Yield	52.00
Region	**District**	**2013**	**2014**	**2015**	**3-yr Avg.**	**Rank**	**Avg. Yield as % of National Avg.**	**Avg. Yield as % of Potential Yields**
Upper West	Wa Municipal	23.80	24.75	26.21	24.92	1	146.93	47.92
Northern	West Gonja	23.78	22.81	23.43	23.34	2	137.62	44.88
Northern	Nanumba South	23.48	22.25	22.86	22.86	3	134.79	43.96
Northern	Nanumba North	23.99	21.94	22.54	22.82	4	134.55	43.88
Upper West	Nadowli	22.60	22.25	23.56	22.80	5	134.43	43.85
Eastern	Afram Plains	20.50	22.50	22.93	21.98	6	129.60	42.27
Brong Ahafo	Kintampo South	21.35	21.65	21.66	21.55	7	127.06	41.44
Northern	Yendi	21.27	20.52	21.08	20.96	8	123.58	40.31
Upper West	Wa East	20.70	19.50	20.65	20.28	9	119.58	39.00
Volta	Nkwanta North	18.48	19.60	20.29	19.46	10	114.74	37.42

Table 4.7.2c: Average Yield Performance for Plantain by District (Top 10 Districts)

PLANTAIN (Mt/Ha)							National Average	10.82
							Potential Yield	20.00
Region	**District**	**2013**	**2014**	**2015**	**3-yr Avg.**	**Rank**	**Avg. Yield as % of National Avg.**	**Avg. Yield as % of Potential Yields**
Brong Ahafo	Asunafo South	19.43	19.53	20.04	19.67	1	180.46	51.76
Brong Ahafo	Asutifi	16.91	17.32	17.77	17.33	2	158.99	45.61
Central	Awutu-Senya	13.70	13.81	13.58	13.70	3	125.69	36.05
Brong Ahafo	Tano North	12.52	12.77	13.10	12.80	4	117.43	33.68
Ashanti	Asante Akim South	12.50	12.80	13.06	12.79	5	117.34	33.66
Ashanti	Ahafo Ano North	12.00	12.50	12.75	12.42	7	113.94	32.68
Ashanti	Asante Akim North	12.00	12.50	12.75	12.42	7	113.94	32.68
Ashanti	Offinso North	12.00	12.50	12.75	12.42	7	113.94	32.68
Brong Ahafo	Tano South	12.13	12.29	12.61	12.34	9	113.21	32.47
Brong Ahafo	Sunyani Municipal	12.15	12.17	12.49	12.27	10	112.57	32.29

Table 4.7.2d: Average Yield Performance for Cocoyam by District (Top 10 Districts)

COCOYAM (Mt/Ha)							National Average	8.00
							Potential Yield	20.00
Region	**District**	**2013**	**2014**	**2015**	**3-yr Avg.**	**Rank**	**Avg. Yield as % of National Avg.**	**Avg. Yield as % of Potential Yields**
Volta	Biakoye	10.68	10.70	10.59	10.66	1	133.25	53.30
Volta	Jasikan	10.66	10.70	10.59	10.65	2	133.13	53.25
Eastern	Atiwa	10.20	9.90	9.75	9.82	3	122.75	49.10
Eastern	Birim Central	9.35	9.40	9.26	9.33	4	116.63	46.65
Eastern	Birim South	9.21	9.30	9.16	9.23	5	115.38	46.15
Eastern	Fanteakwa	8.50	8.90	8.77	8.83	6	110.38	44.15
Volta	Kadjebi	8.51	8.81	8.72	8.77	7	109.63	43.85
Eastern	Kwaebibirem	8.70	8.70	8.57	8.63	8	107.88	43.15
Eastern	Akyemansa	8.50	8.60	8.47	8.53	9	106.63	42.65
Eastern	East Akim	8.45	8.50	8.37	8.44	10	105.50	42.20

Table 4.7.3 Legumes and Pulses

Table 4.7.3a: Average Yield Performance for Cowpea by District (Top 10 Districts)

COWPEA(Mt/Ha)							National Average	1.23
							Potential Yield	5.50
Region	**District**	**2013**	**2014**	**2015**	**3-yr Avg.**	**Rank**	**Avg. Yield as % of National Avg.**	**Avg. Yield as % of Potential Yields**
Northern	Yendi	2.50	2.37	2.44	2.44	1	198.37	44.36
Northern	Savelugu/Nanton	2.38	2.38	2.45	2.40	2	195.12	43.64
Volta	Akatsi	2.06	2.31	2.70	2.35	3	191.06	42.73
Northern	Central Gonja	2.49	2.21	2.28	2.33	4	189.43	42.36
Northern	Nanumba North	1.87	2.21	2.28	2.12	5	172.36	38.55
Northern	Kpandai	1.96	2.00	2.06	2.01	6	163.41	36.55
Northern	Tolon/Kumbungu	2.00	1.95	2.01	1.99	7	161.79	36.18
Northern	Bunkpurugu/Yunyoo	1.98	1.88	1.94	1.93	8	156.91	35.09
Northern	East Gonja	1.98	1.78	1.83	1.86	9	151.22	33.82
Northern	East Mamprusi	1.80	1.50	1.55	1.62	10	131.71	29.45

Table 4.7.3b: Average Yield Performance for Soya bean by District (Top 10 Districts)

SOYA BEAN(Mt/Ha)							National Average	1.65
							Potential Yield	3.50
Region	**District**	**2013**	**2014**	**2015**	**3-yr Avg.**	**Rank**	**Avg. Yield as % of National Avg.**	**Avg. Yield as % of Potential Yields**
Northern	Nanumba South	2.75	2.55	2.68	2.66	1	161.21	76.00
Northern	Yendi	2.50	2.43	2.55	2.49	2	150.91	71.14
Northern	Savelugu/Nanton	2.15	2.24	2.35	2.25	3	136.36	64.29
Northern	West Gonja	2.15	2.10	2.21	2.15	4	130.30	61.43
Northern	Nanumba North	1.94	2.10	2.21	2.08	5	126.06	59.43
Northern	Tolon/Kumbungu	2.10	2.00	2.10	2.07	6	125.45	59.14
Northern	Kpandai	1.89	1.90	2.00	1.93	7	116.97	55.14
Northern	Tamale Metro	1.92	1.86	1.96	1.91	8	115.76	54.57
Northern	East Gonja	1.98	1.76	1.85	1.86	9	112.73	53.14
Northern	Zabzugu/Tatale	1.83	1.76	1.85	1.81	10	109.70	51.71

Table 4.7.3c: Average Yield Performance for Groundnut by District (Top 10 Districts)

GROUNDNUT(Mt/Ha)							National Average	1.25
							Potential Yield	3.50
Region	**District**	**2013**	**2014**	**2015**	**3-yr Avg.**	**Rank**	**Avg. Yield as % of National Avg.**	**Avg. Yield as % of Potential Yields**
Northern	Savelugu/Nanton	2.32	2.56	2.54	2.47	1	197.60	70.57
Northern	East Gonja	2.45	2.37	2.35	2.39	2	191.20	68.29
Northern	Zabzugu/Tatale	2.29	2.43	2.41	2.38	3	190.40	68.00
Northern	Kpandai	1.92	2.21	2.19	2.11	4	168.80	60.29
Northern	Nanumba North	1.71	2.00	1.98	1.90	5	152.00	54.29
Northern	West Gonja	1.65	1.70	1.69	1.68	6	134.40	48.00
Northern	Tolon/Kumbungu	1.60	1.70	1.69	1.66	7	132.80	47.43
Upper West	Sissala West	1.57	1.61	1.64	1.61	8	128.80	46.00
Northern	Karaga	1.55	1.58	1.57	1.57	9	125.60	44.86
Northern	Nanumba South	1.40	1.65	1.64	1.56	10	124.80	44.57

Table 4.8: Estimated Levels of Apparent Per Capita Consumption of Selected Commodities

Commodity	1990	1995	2000	2005	2010	2015
1. **Starchy Staples**						
Cassava	148.00	149.70	151.40	152.90	152.90	152.90
Yam	43.30	42.80	42.30	41.90	125.00	125.00
Cocoyam	54.00	55.00	56.00	40.00	40.00	40.00
Plantain	83.00	83.50	84.00	84.80	84.80	84.80
2. **Cereals**						
Maize	40.30	41.40	42.50	43.80	45.00	45.00
Rice (milled)	13.30	13.90	14.50	15.10	32.00	32.00
Millet	5.10	12.60	9.00	6.40	5.00	5.00
Sorghum	9.30	21.70	14.80	10.10	5.00	5.00
Wheat	-	-	8.00	8.00	13.00	13.00
3. **Legumes**						
Cowpea	4.00	4.00	4.00	5.00	5.00	5.00
Groundnut	20.00	20.00	20.00	12.00	12.00	12.00
Soya bean	-	-	-	-	2.00	2.00
4. **Fish**	23.60	24.20	27.00	30.20	24.50	24.50
5. ****Meat**	8.00	6.30	6.70	9.40	12.00	11.00

**In the absence of a household consumption survey, these estimates have been based on food available for human consumption (i.e. apparent consumption) from both domestic and import sources.*

***For Meat; total meat available for consumption comprising, domestic meat production (incl. meat from the wild [bush meat] averaging 92,000 Mt per annum) plus meat imports have been considered. Dashes indicate cells for which information was not available.*

Table 4.9: Food Balance Sheet (2015/2016)

Type of Commodity	Gross Biological Production (MT)	Available Total Domestic Production Available for Human Consumption* (MT)	Total Imports of Commodities (MT)	Carry Over Stock (MT)	Total Exports of Commodi-ties (MT)	Total Supply of Commodities (MT)	Per Capita Consumption (Kg/Annum)	Estimated Net Consumption of Commodities (MT)	Closing Stock (MT)	Total Needs (MT)	Net Deficit/ Surplus (MT)
CEREALS	**2,554,294**	**1,934,656**	**1,203,111**	**299,272**	**147.02**	**3,436,892**		**2,856,300**	**343,695**	**3,199,995**	**236,902**
Maize	1,691,644	1,184,151	113,037	141,960	60.53	1,439,087	45	1,285,335	143,915	1,429,250	**9,843**
Rice (Paddy)	641,492										
Rice (Milled)**	442,629	385,087	620,811	82,363	86.49	1,088,175	32.0	914,016	108,817	1,022,833	**65,341**
Millet	157,369	136,911		15,066		151,977	5.0	142,815	15,198	158,013	**-6,036**
Sorghum	262,652	228,507		25,123		253,630	5.0	142,815	25,363	168,178	**85,452**
Wheat	-	0	469,263	34,760		504,023	13.0	371,319	50,402	421,721	**82,302**
STARCHY STAPLES	**29,762,451**	**22,481,489**	**0**	**0**	**36,826**	**22,444,663**		**11,502,320**		**11,502,320**	**10,942,343**
Cassava	17,212,698	12,048,888				12,048,888	152.9	4,367,283	0	4,367,283	**7,681,606**
Yam	7,296,150	5,836,920			36,826	5,800,094	125.0	3,570,375	0	3,570,375	**2,229,719**
Plantain	3,952,421	3,359,558				3,359,558	84.8	2,422,142	0	2,422,142	**937,416**
Cocoyam	1,301,181	1,236,122				1,236,122	40.0	1,142,520	0	1,142,520	**93,602**
LEGUMES:	**762,876**	**669,304**	**0**	**0**	**529**	**668,775**		**542,697**		**542,697**	**126,078**
Groundnuts	417,199	375,479			529	374,950	12.0	342,756	0	342,756	**32,194**
Cowpea	203,317	172,819				172,819	5.0	142,815	0	142,815	**30,004**
Soyabean	142,360	121,006				121,006	2.0	57,126	0	57,126	**63,880**

Source: Statistics, Research and Information Directorate (SRID), MoFA

Notes: Estimated Population for 2014, based on 2010 provisional census figure = 27.043 million.

**70% of Domestic production for maize and cassava; 87% for rice, millet and sorghum; 80% for yam.*

95% for cocoyam; 90% for groundnuts; 85% for plantain and cowpea. Livestock feed, wastage and seed account for the discount.

2015

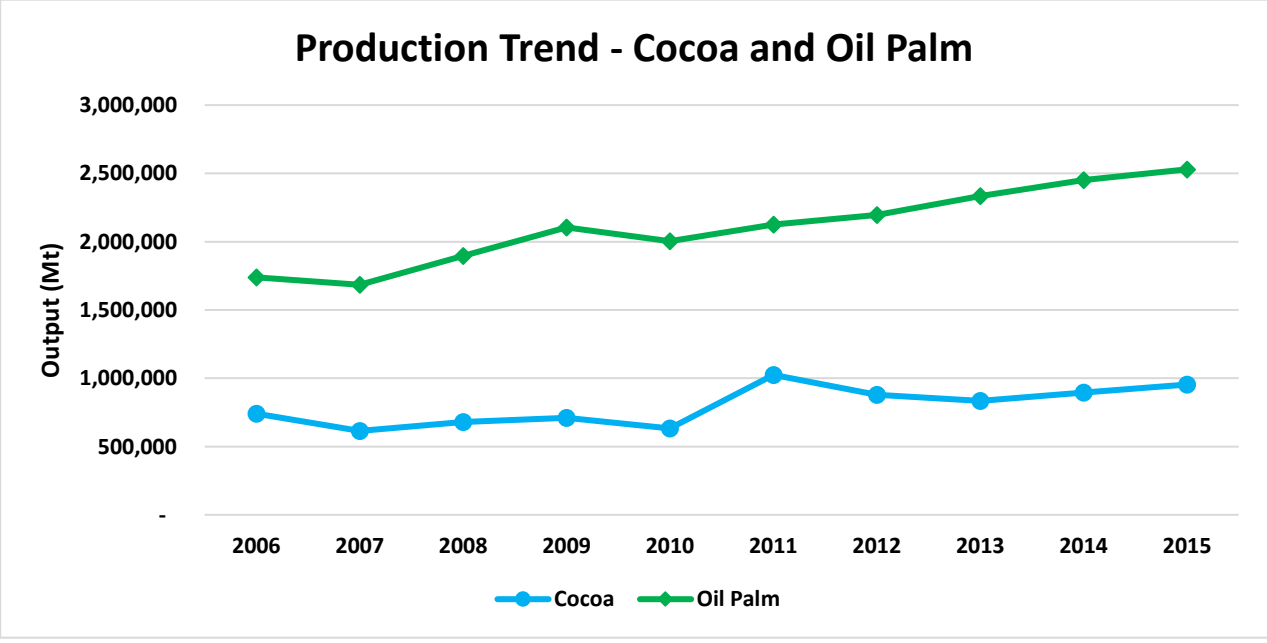
60.53

Table 4.10: Production of Industrial Crops, (Mt)

Year	Cocoa[1]	Coffee[1]	Rubber	Shea nut	Oil Palm[2]
1997/98	409,383	8,370	n.a.	34,886	1,022,010
1998/99	397,675	3,965	n.a.	17,465	1,031,919
1999/00	436,947	1,956	11,080	30,771	1,066,426
2000/01	389,772	1,379	9,784	19,882	1,586,500
2001/02	340,562	1,464	10,240	27,160	1,612,700
2002/03	496,846	338	10,924	n.a.	1,640,100
2003/04	736,975	477	12,347	n.a.	1,686,800
2004/05	599,318	270	13,619	n.a.	1,712,600
2005/06	740,458	164	13,618	n.a.	1,737,900
2006/07	614,532	304	15,318	n.a.	1,684,500
2007/08	680,781	2,024	14,132	698	1,896,760
2008/09	710,642	516	19,134	31,386	2,103,600
2009/10	632,037	n.a.	n.a.	n.a.	2,004,300
2010/11	1,024,554	n.a.	n.a.	n.a.	2,125,645
2011/12	879,348	n.a.	n.a.	n.a.	2,196,098
2012/13	835,466	n.a.	n.a.	n.a.	2,334,400
*2013/14	896,220	n.a.	n.a.	n.a.	2,451,130
*2014/15	953,566	n.a.	n.a.	n.a.	2,529,513

Sources: 1. COCOBOD, 2. Oil Palm Companies (GOPDC, TOPP, BOPP, NOPL) and Individual Plantations
n.a.: Not Available

Figure 5: Production Trend – Cocoa and Oil Palm



Source: Based on Table 4.10

Table 4.11: Estimated Cropped Area ('000 Ha) and Production ('000 Mt) of Oil Palm

Company	***2008***		****2009***		****2010***		****2011***		****2012***		***2013****		***2014****		***2015****	
	Area	Product-ion	Area	Product-ion	Area	Product-ion	Area	Product-ion	Area	Product-ion	Area	Product-ion	Area	Product-ion	Area	Product-ion
GOPDC	22.35	268.9	25.00	300.00	27.30	328.30	31.40	376.90	35.40	425.40	39.50	473.90	41.48	497.60	42.93	513.51
BOPP	6.34	87.7	6.00	82.80	6.00	83.70	6.00	83.00	5.90	82.40	6.40	9.20	6.72	93.66	6.96	96.65
TOPP	12.24	134.1	15.00	163.50	14.60	160.00	15.80	173.60	17.00	187.20	18.20	200.80	19.11	210.84	19.78	217.58
NOPL**	4.00	33.9	6.00	51.00	4.60	39.40	3.70	31.80	2.80	24.20	1.90	16.60	2.00	17.43	2.07	17.99
Medium Farms**	0.74	5.90	0.80	6.30	0.80	6.60	0.90	6.80	0.90	7.00	0.90	7.20	0.95	7.56	0.98	7.80
Other Private Holdings **	288.10	1,440.58	300.00	1,500.00	305.90	1,529.00	315.40	1,453.50	325.00	1,469.90	334.50	1,546.70	351.23	1,624.04	363.54	1,675.97
TOTAL	**333.77**	**1,971.08**	**352.8**	**2,103.60**	**359.20**	**2,147.00**	**373.20**	**2,125.60**	**387.00**	**2,196.10**	**401.40**	**2,334.40**	**421.49**	**2,451.13**	**436.27**	**2,529.51**

Source: Data for GOPDC, BOPP and TOPP was provided by ISSER, Legon.

** GOPDC, BOPP, TOPP were SRID estimations*

*** NOPL, Medium Farms and Other Private Holdings were SRID estimations including 2009 estimates.*

Table 4.12: Crude Palm Oil Production Estimates (Mt)

Company	2006	2007	2008	2009	2010	2011	2012	2013	*2014	*2015
GOPDC	28,743.10	17,842.70	18,055.68	20,143.00	18,960.54	18,045.80	17,131.05	16,216.30	17,027.12	17,476.16
BOPP	16,485.00	15,305.00	14,960.18	14,124.00	14,232.57	13,916.82	13,601.07	17,554.00	17,817.31	18,173.66
TOPP	20,348.00	14,797.10	14,249.66	17,373.00	14,544.40	13,627.94	12,711.48	11,795.02	11,971.95	12,930.16
NGL (NOPL)	7,019.00	7,721.00	8,492.83	12,775.00	11,812.93	12,856.74	13,900.55	14,944.36	15,168.53	15,579.07
AMEEN	9,805.00	10,785.50	11,863.68	11,000.00	12,589.86	13,314.50	14,039.14	14,763.78	14,985.24	15,284.94
Sub-Total	**82,400.10**	**66,451.30**	**67,622.03**	**75,415.00**	**72,140.30**	**71,761.80**	**71,383.29**	**75,273.46**	**76,970.13**	**79,443.99**
Medium Scale Mills	8,387.00	9,225.70	10,148.07	10,836.00	11,584.66	12,357.44	13,130.22	13,903.00	14,598.15	15,345.05
Small-Scale and Other Private Holdings	250,888.00	275,976.80	303,572.32	316,222.00	342,012.51	364,279.77	386,547.04	408,814.30	429,255.02	450,913.43
TOTAL	**341,675.10**	**351,653.80**	**381,342.42**	**402,473.00**	**425,737.47**	**448,399.01**	**471,060.55**	**497,990.76**	**520,823.30**	**545,702.48**

Source: Data for GOPDC, BOPP and TOPP was provided by ISSER, Legon.
NOPL, AMEEN, Medium Scale Mills and Small-Scale and Other Private Holdings were SRID estimates.
** SRID Projection*

4.2: Livestock Sub-sector

Table 4.13: Trend of Livestock Population ('000)

Type of Livestock	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Cattle	1,392	1,407	1,422	1,438	1,454	1,498	1,543	1,590	1,657	1,734
Sheep	3,314	3,420	3,529	3,642	3,759	3,887	4,019	4,156	4,335	4,522
Goats	3,997	4,196	4,405	4,625	4,855	5,137	5,435	5751	6,044	6,352
Pigs	477	491	506	521	536	568	602	638	682	730
Poultry	34,030	37,038	39,816	43,320	47,752	52,575	57,885	63,732	68,511	71,594

Source: SRID and Veterinary Services Directorate, MoFA, Accra

Table 4.14: Index of Livestock Population (2000 = 100)

Type of Livestock	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Cattle	107	108	109	110	112	113	119	122	127	133
Sheep	121	125	129	133	137	141	147	152	158	165
Goats	130	136	143	150	158	166	177	187	196	206
Pigs	147	152	156	161	165	175	186	197	211	225
Poultry	166	181	194	212	233	257	283	311	335	350

Source: Based on Table 4.13

Table 4.15: Livestock Slaughter Summary (Numbers)

Type of Livestock	2010	2011	2012	2013	2014	2015	(%)Change (2015/2014)
Cattle	233,491	202,104	220,446	200,819	164,554	141,144	-14.23
Sheep	66,754	73,159	90,656	68,344	64,594	47,546	-26.39
Goats	104,425	108,826	140,914	118,623	129,073	76,531	-40.71
Pigs	18,196	20,086	23,608	24,062	21,735	13,618	-37.35
Other	3,421	3,705	5,521	2,824	4,102	3,045	-25.77
Total (All Livestock)	**426,287**	**407,880**	**481,145**	**414,672**	**384,058**	**281,884**	**-26.60**

Source: Veterinary Services Directorate, MoFA, Accra

Table 4.16: Live Animal Imports by Species

Year	Cattle	Sheep	Goats
2007	8,891	6,594	4,498
2008	1,081	1,401	1,514
2009	10,119	4,987	6,098
2010	11,389	4,843	3,711
2011	9,384	2,835	2,495
2012	23,622	9,840	10,008
2013	21,131	16,738	16,953
2014	20,948	22,188	32,012
2015	17,968	15,763	20,004

Source: *Veterinary Services Directorate, MoFA, Accra*

Table 4.17: Importation of Day Old Chicks and Parent Stock

Year	Broiler	Layer	Turkey	Parent Stock
2009	454,640	1,036,872	6,972	58,822
2010	379,643	1,422,199	21,290	95,016
2011	547,205	2,461,140	9,180	9,180
2012	651,112	3,227,844	16,966	114,344
2013	1,088,865	4,481,602	9,286	126,288
2014	3,161,144	602,209	6,840	18,080
2015	246,948	2,573,326	19,497	111,692

Source: Veterinary Services Directorate, MoFA

Table 4.18: Imports of frozen Meat and Dairy Products (Mt)

CATEGORY	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	(%)Change (2015/2014)
BOVINE:											
BEEF	10,585.50	16,250.40	13,135.10	12,338.40	11,175.90	14,823.20	16,703.50	21,250.80	12,200.98	9,026.87	-26.02
BUFFALO	4,717.30	8,109.00	7,366.80	4,454.50	2,563.90	2,025.00	1,495.00	905.00	514.50	57.00	-88.92
SUB-TOTAL	**15,302.80**	**24,359.40**	**20,501.90**	**16,792.90**	**13,739.80**	**16,848.20**	**18,198.50**	**22,155.80**	**12,715.48**	**9,083.87**	**-28.56**
POULTRY:											
CHICKEN	44,757.70	63,276.30	89,889.00	67,068.60	69,810.80	86,372.50	73,788.40	58,999.30	29,638.18	35,369.07	19.34
TURKEY	3,030.30	3,514.70	3,352.80	1,980.20	1,351.70	1,033.00	1,293.70	1,787.00	897.57	772.41	-13.94
DUCK	6.10	0.00	16.00	30.80	0.00	4.00	78.30	0.00	0.00	0.00	0.00
SUB-TOTAL	**47,794.10**	**66,791.00**	**93,257.80**	**69,079.60**	**71,162.50**	**87,409.50**	**75,160.40**	**60,786.30**	**30,535.75**	**36,141.48**	**18.36**
OTHER:											
MUTTON	4,839.20	6,887.10	5,961.30	6,153.10	4,285.20	4,520.00	2,574.80	3,251.10	1,661.18	1,712.81	3.11
PORK	13,290.50	10,551.50	5,487.40	3,150.20	2,716.60	2,507.00	1,785.80	2,064.60	905.00	1,167.53	29.01
PROCESSED MEAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SUB-TOTAL	**18,129.70**	**17,438.60**	**11,448.70**	**9,303.30**	**7,001.80**	**7,027.00**	**4,360.60**	**5,315.70**	**2,566.18**	**2,880.34**	**12.24**
MILK	**1,044.20**	**2,659.90**	**2,718.90**	**11,406.40**	**27,323.00**	**27,619.00**	**24,727.50**	**38,187.50**	**34,447.42**	**32,232.92**	**-6.43**
GRAND TOTAL	**82,270.80**	**111,248.90**	**127,927.30**	**106,582.20**	**119,227.10**	**138,903.70**	**122,447.00**	**126,445.30**	**80,264.83**	**80,338.61**	**0.09**

Source: Veterinary Services Directorate (VSD)

Table 4.19: Meat Production (Mt)

Type of Livestock	Domestic Meat Production									
	2006	**2007**	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**
Cattle	19,140	19,346	19,553	19,773	19,993	20,592	21,221	21,863	22,781	23,841
Sheep	14,913	15,390	15,881	16,389	16,916	17,491	18,087	18,703	19,507	20,347
Goats	15,828	16,616	17,444	18,315	19,226	20,341	21,198	22429	23,573	24,774
Pigs	16,027	16,498	17,002	17,506	18,010	19,072	20,224	21,432	22,932	24,513
Poultry	26,543	28,890	31,056	33,790	37,247	41,008	46,308	50,985	54,809	57,276
Total	**92,452**	**96,740**	**100,935**	**105,772**	**111,390**	**118,504**	**127,038**	**135,412**	**143,603**	**150,751**

Source: Estimated from Table 4.13 based on information and criteria in Appendix 14

Table 4.20: Index of Meat Production (Year 2000 = 100)

Type of Livestock	**2006**	**2007**	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**
Cattle	107	108	109	110	112	115	114	118	123	128
Sheep	121	125	129	133	137	142	147	152	159	165
Goats	130	136	143	150	158	167	184	194	204	214
Pigs	147	152	156	161	165	175	201	213	228	244
Poultry	166	181	194	212	233	257	335	369	397	415

Source: Based on Table 4.19

4.3: Fisheries Sub-Sector

Table 4.21: Annual Fish Production by Source (Mt)

Source	**2006**	**2007**	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**
Marine	315,530	290,686	343,868	326,111	309,558	326,545	333,697	314,868	289,147	312,535
Inland	83,168	84,757	72,590	70,898	83,127	95,353	95,000	86,741	85,383	86,268
Total	**398,698**	**375,443**	**416,458**	**397,009**	**392,685**	**421,898**	**428,697**	**401,609**	**374,530**	**398,803**

Source: Fisheries Commission, Ministries of Fisheries and Aquaculture Development (MoFAD).

Table 4.22: Annual Aquaculture Production (Mt)

Year	Production
2006	1,667
2007	3,257
2008	6,514
2009	7,500
2010	10,200
2011	19,092
2012	27,451
2013	32,512
2014	38,547
2015	44,515

Source: Directorate of Fisheries, MoFA /Min. of Fisheries and Aquaculture Development (MoFAD) – 2013-2015.

Table 4.23: Index of Annual Fish Production (2006 = 100)

Source	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Marine	100	92	109	103	98	103	106	100	92	99
Inland	100	102	87	85	100	115	114	104	103	104

Source: Based on Table 4.21

Table 4.24: Fish Imports and Exports (2009 – 2015)

Category	2009	2010	2011	2012	2013	2014	2015
Total Fish Imports	170,744	199,799	191,429	181,825	150,701	145,910	180,802
Total Fish Exports	57,621	62,750	44,145	46,234	37,617	57,358	n.a

Source: Directorate of Fisheries, MoFA/Ministries of Fisheries and Aquaculture Development (MoFAD)
n.a. = Not Available,

SECTION 5: SOME SERVICES TO AGRICULTURE

5.1: Credit Support

Table 5.1: Sectorial Distribution of Credit by Deposit Money Banks (%)

End of Period	*Agric., Forestry & Fishing*	*Mining &Quarrying*	*Manufacturing*	*Construction*	*Electricity Gas & Water*	*Commerce & Finance*			*Transport & Communication*	*Services*	*Miscellaneous*
						Import Trade	Export Trade	Domestic Trade			
2002	6.50	3.20	15.60	5.50	3.50	4.30	2.20	21.20	4.60	7.10	26.60
2003	0.40	3.20	17.60	5.80	2.50	5.00	2.40	32.40	3.50	15.20	12.50
2004	7.90	2.60	19.40	7.90	2.90	6.90	4.30	19.60	5.40	10.60	12.70
2005	6.40	3.00	20.40	5.70	2.10	7.90	3.00	23.50	4.10	13.60	10.80
2006	6.30	4.40	18.70	6.10	2.50	6.20	2.10	23.90	4.40	17.80	8.20
2007	4.46	3.20	12.88	7.69	3.33	4.93	1.68	25.48	3.98	22.37	10.02
2008	4.32	2.92	12.01	6.85	4.03	5.23	1.40	26.42	2.98	24.13	9.72
2009	4.77	2.77	11.71	7.89	6.35	5.36	1.71	24.26	4.02	21.11	10.05
2010	6.16	2.73	13.33	7.56	6.55	5.80	1.95	23.37	4.04	20.74	7.78
2011	5.77	4.28	9.00	8.08	6.72	9.26	1.21	16.35	4.21	26.96	8.15
2012	4.87	1.14	11.08	4.83	2.14	8.01	8.49	16.99	7.93	26.46	8.07
2013	4.09	1.00	8.87	4.45	2.65	9.12	9.00	16.24	11.35**	26.35	6.88
2014	3.64	0.93	9.46	4.76	2.84	8.18	9.58	15.93	13.33	23.48	7.87
2015	3.84	1.95	8.41	9.80	14.74	9.14	0.51	13.65	4.91	21.89	8.52

Source: Ghana Statistical Service; Quarterly Digest of Statistics (Bank of Ghana).
*** Includes storage.*

Table 5.2: Bank Lending Rates (Minimum and Maximum) (%)

End of Period	Agriculture, Forestry & Fishing	Export Sector	Manufacturing Sector
2002	27.00 – 50.00	27.00 – 50.00	27.00 – 50.00
2003	27.50 – 42.25	27.50 – 42.25	27.50 – 42.25
2004	23.50 – 37.50	23.50 – 37.50	23.50 – 37.51
2005	26.00 – 28.75	26.00 – 28.75	26.00 – 28.75
2006	24.25 – 26.00	24.25 – 26.00	24.25 – 26.00
2007	14.83 – 33.50	15.00 – 33.50	15.00 – 33.50
2008	23.75 – 27.25	23.75 – 27.25	24.25 – 27.25
2009	27.09 – 44.61	29.37 – 41.25	27.09 – 39.77
2010	27.63 – 32.75	27.63 – 32.75	27.63 – 32.75
2011	25.93 – 27.63	25.93 – 27.63	25.93 – 27.63
2012	24.65 – 25.72	24.65 – 25.72	24.51 – 25.72
2013	25.56 – 27.41	25.56 – 27.41	25.56 – 27.41
2014	16.87 – 37.08	16.87 – 37.08	16.87 – 37.08
2015	19.00 – 36.00	19.00 – 36.00	19.00 – 36.00

Source: Ghana Statistical Service (GSS), Quarterly Digest of Statistics / Bank of Ghana

Table 5.3: Basic Information on Banks in Ghana as at December, 2015

No.	*Bank*	*Year Established*	*No. of Branches*	*Regional Distribution of Banks*
1	Standard Chartered Bank Ltd.	1894	28	Greater Accra, Western, Ashanti, Northern
2	Barclays Banks of Ghana Ltd.	1917	91	All Regions
3	GCB Bank Ltd.	1953	159	All Regions
4	National Investment Bank Ltd.	1963	36	All Regions
5	Agricultural Development Bank Ltd.	1965	79	All Regions
6	Universal Merchant Bank (Formerly Merchant Bank Ghana Ltd.)	1972	24	Greater Accra, Western, Eastern, Ashanti, Brong Ahafo
7	SG Bank (Formerly SG-SSB Bank Ltd.)	1973	48	All Regions
8	CAL Bank Ltd.	1990	24	Greater Accra, Western, Ashanti
9	Ecobank Ghana Ltd.	1990	77	All except Upper East & Upper West
10	Prudential Bank Ltd.	1994	34	All except Eastern, Volta, Upper East and Upper West
11	UT Bank (Ghana) Ltd.	1995	30	All except Upper East & Upper West
12	First Atlantic Bank Ltd.	1995	16	Greater Accra, and Ashanti Region
13	FBN Bank (Ghana) Ltd. (Formerly International Commercial Bank Ltd.	1996	18	Greater Accra, Western, Central, Ashanti, Brong Ahafo
14	Stanbic Bank Ghana Ltd.	1999	36	All except Eastern
15	Bank of Africa (Ghana) Ltd (Formerly Amalgamated Bank Ltd.	1999	20	Greater Accra, Western, Ashanti, Northern
16	Unibank Ghana Ltd.	2000	37	All except Volta and Upper West
17	ARB Apex Bank	2001	11	All Regions
18	HFC Bank (Ghana) Ltd.	2003	43	All except Upper West & Volta
19	United Bank of Africa (Ghana) Ltd.	2004	25	Greater Accra, Western, Volta, Ashanti
20	Guaranty Trust Bank (Ghana) Ltd.	2005	33	All except Eastern, Upper East, Upper West
21	Zenith Bank (Ghana) Ltd	2005	24	All except Upper East, Upper West & Volta
22	Fidelity Bank (Ghana) Ltd.	2006	74	All except Upper West
23	Access Bank Ghana Ltd.(Formerly Intercontinental Bank Ltd.)	2006	37	Except Eastern, Upper East and Upper West
24	Bank of Baroda (Ghana) Ltd.	2008	2	Greater Accra
25	Sahel Sahara Bank (BSIC))	2008	16	All except Volta, Eastern, Upper East & Upper West
26	Energy Bank (Ghana) Ltd.	2011	11	Greater Accra, Western, Ashanti and Northern
27	The Royal Bank Ltd.	2012	24	Greater Accra, Western, Ashanti, Central and Brong Ahafo
28	Capital Bank Ltd. (formally First Capital Plus Bank Ltd.	2013	15	Greater Accra, Western, Central, Eastern, Ashanti
29	GN Bank Ltd.	1997	112	All Regions

Source: Bank of Ghana,

In addition to the above indicated banks, there are some 139 Rural and Community Banks operating in the rural and peri-urban setting engaged in deposit mobilization and loan/advances delivery. Again there are 58 Non-Bank Financial Institutions in Ghana. These are helping in various areas in the agricultural sector. For example, of the latter is the Export Finance Company Limited providing the following services:

1. Pre and Post-Shipment Credit Schemes; 2. Export Refinance Schemes; 3. Export Credit Guarantee Scheme; 4. Export Insurance Schemes and advisory service

5.2: Agricultural Manpower Development and Research Support

Table 5.4: Agriculture-Related Research Institutes

Institute	Location	Telephone Numbers	Email/website
Ministry of Food and Agriculture (MoFA)			
Statistics, Research and Information Directorate	Accra	0302-664317/666727	sriddir@gmail.com/ srid.mofa.gov.gh
Council for Scientific and Industrial Research (CSIR)			
Animal Research	Accra	0302-401846/ 554744/511746	ari@africaonline.com.gh
Crop Research	Kumasi	03220-60389/60391/6/ 60142	Cridriector@yahoo.com hadapaah@yahoo.comcri@ africaonline.com.gh www.cropresearch.org
Food Research	Accra	0302-777330/ 761209/ 776897 500111/500470/500331	fri@ghana.com
Oil Palm Research	Kade	027-541475/548545/75 0803-610257/8	csir@ghana.com
Water Resources	Accra	0302-775351/ 779514-5/ 775511/777170	wri@ghana.com
Forestry Research Institute of Ghana	Kumasi	03220-60122-3 / 60370/3	director@csir-forig.org.gh
Soil Research	Kumasi	03220-50353-4/ 50060	soil@aol.com.gh
Savannah Agric. Research Institute (SARI)	Tamale	03720-23197/ 23251/ 24411	sari@africaonline.com.gh
Institute of Industrial Research	Accra	0302-500195/500134-7	info@iir.csir.org.gh, industrialresearch@iir.csir.org.gh, joeamoah@yahoo.com
Institute for Scientific and Technical Information	Accra	0302-778808/764822	insti@csir.org.gh, jsam@insti.csir.org.gh
Plant Genetic Resources Research Institute (PGRRI)	Bunso	03420-24124/24138	pgrc@libr.ug.edu.gh
Universities			
University Faculties of Agriculture	Accra, Kumasi Cape Coast Tamale	0302-500180/03220-60361 03321-32709/03720-23620	www.ug.edu.gh
Department of Zoology, Uni. Of Ghana (UG)	Legon, Accra.	0302-501404	www.ug.edu.gh
Department of Biochemistry, Nutrition and Food Science (UG)	Legon, Accra.	0302-500389	www.ug.edu.gh
Ghana Atomic Energy Commission			
Biotechnology and Nuclear Agricultural Research Institute (BN ARI)	Kwabenya, Accra	0302-400807/400310/401343 402286	director@bnari.org webmaster@bnari.org
Ghana COCOBOD			
Cocoa Research Institute of Ghana (CRIG)	New Tafo	027 7609904	www.cocobod.gh

Table 5.5: Staffing Levels of MoFA by Profession and Category

Category of Staff	2006	2007	2008	2009	2010	2011	2012	2013	2014[2]	2015
Professional	783	793	1,099	1,099	1,362	1,362	1,362	1,335	319	368
Sub-Professional	527	530	579	579	530	530	530	456	94	160
Technical	2,816	2,831	2,757	2,757	3,385	3,385	3,385	2,773	497	565
Support Staff [1]	2,175	2,293	2,168	2,168	2,376	2,376	2,376	1,945	657	659
Total	**6,301**	**6,447**	**6,603**	**6,603**	**7,653**	**7,653**	**7,653**	**6,509**	**1,570**	**1,752**

Source: Human Resource Development and Management Directorate (HRDMD), MoFA

[1] *Support staff includes administrative staff and secretaries.*

[2] *The sharp decline in the number of MOFA staff in the year 2014 is as a result of the Promulgation of the Legislative Instrument 1961 which cedes the Regional and District Agricultural Development Unit to Local Government Service. This has moved about 76% of the staff population of the Ministry to Local Government Service.*

5.3: Agricultural Mechanization

Table 5.6: Agricultural Machinery and Equipment

Year	*Importation*	
	Make/ Model	**Qty. Imported (Units)**
2008	Shakti power tillers	200
	John Deere tractors	500
	Mahindra tractors	232
2009	Farmtrac-60 tractors	200
	Kukje Combine harvester	12
	Foton combine harvester (D200)	5
	Foton maize/rice combine harvester	10
	China run Yuan Gin Ying Combine Harvester	10
2010	Thailand Combine Harvester (KT09 Rice Harvester)	2
	Irrigation Pumps and accessories	40
	Rice Mills	12
	Rice Threshers	30
	Rice Reapers	30
	Grain Prococoons (50MT)	100
	Grain Prococoons (20MT)	150
	Rice Destoner	2
2011	Foton DC200 rice harvester	70
	Foton GE20H rice/maize harvester	50
	Cabrio compact tractors	50
2012/2013	Cabrio compact tractors and matching implements	100
Japanese Grant Assistance-2KR programme		
2007	Power tillers	100
2008	Kubota tractors	78
	Water pumps	16
	Rice Mills	20
2010	Tractor and matching implements	125

2011	Combine harvester	2
	Rice threshers	35
	Rice reaper	35
	Rice Mill	10
	Irrigation Pump	40
Japanese Grant Assistance		
2013/2014	Tractors and matching implements	70
	Power Tiller	43
	Rice Thresher	35
	Rice Reaper	20
	Rice Mill	5
2015	**GoG**	
	Cabrio tractors (50hp)	100
Japanese Grant Assistance		
	Same tractors	77
	Power tillers	49
	Rice threshers	20
	Rice reaper	11
	Rice Mill	6

**30 rice harvester and 20 maize pickers

Source: Agricultural Engineering Services Directorate, MOFA

Table 5.7: Total Area under Irrigation (2009 – 2015) (Ha)

	2009	2010	2011	2012	2013	2014	2015
Formal Irrigation *Scheme/Project*							
Existing Irrigation Schemes	10,067	10,127	10,668	10,668	28,304	29,504	11,000
Additional Area after Rehabilitation	500	500	481	481	0	0	0
Small Scale Irrigation Development Project	1,279	1,682	0	0	0	0	0
Small Farms Irrigation Project	322	324	110	110	0	0	0
MCA			450	450	0	0	0
Sub-Total	**12,168**	**12,633**	**11,709**	**11,709**	**28,304**	**29,504**	**189,000**
Informal Irrigation (Commercial)							
Area Under Cultivation	17,636	17,636	17,636	17,636	17,636	17,636	21,000
Grand Total	**29,804**	**30,269**	**29,345**	**29,345**	**45,940**	**47,140**	**221000**

Source: Ghana Irrigation Development Authority, MoFA

Table 5.8: List of Agricultural Machinery/Equipment Dealers/Importers

No.	*Company*	*Address*	*Telephone*	*Machinery/ equipment*
1	Kay Gee Enterprises	P. O. Box GP 2658, Accra	0302 - 6651211 & 665823 & 0244 347780	Irrigation Pumps,
2	Senaky Enterprise	P. O. Box 582 Ashiaman	022 - 303552 & 020 2112541	MF tractors, implements
3	Chemico Limited	P. O. Box CO 950 Tema Ghana	022 - 202991 & 202992 & 202345	Spraying machines
4	RST CO LTD	P. O. Box MP 310 Mamprobi Accra	0302 - 243420 & 239693 & 020 8168917	Rice mills, threshers, reapers, combined harvesters, power tillers, pumps
5	K Badu Agro Chemicals Co Ltd	P. O. Box KJ 193 Kumasi	0322 - 80803 & 80804 & 0244 - 945207 & 020 8172180	Spraying machines
6	Destiny Azumah Farms & Trading Ent	P. O Box K 424 Accra	0302 - 669427	Corn mills
7	Alex Nkrumah Enterprise	P. O. Box 5268 Kumasi Ghana	0322 - 26882 & 45983 & 0244615835	MF, Ford, Mahindra tractor Spare parts
8	Biga International Technologies	P. O. Box MP 1188 Mamprobi Accra	0302 - 246262 & 0243 665655	Cabrio tractors
9	Foundries & Agric Machinery	P. O. Box AN 7852, Accra	0303 - 304113 / 306403	Farmtrac tractors, combined harvesters, Shakti power tiller, pumps, implements
10	Agrimat Limited	P. O. Box 15097 Accra	0302 - 506883, 0208122867	Tractors, Spare parts, implments, pumps, chemicals
11	CFAO	P. O. Box 1402, ksi, P. O. Box 5761, Accra	0302-221075/ 76	New holland tractors, trucks, combined harvesters, implements,
12	Dizengoff Gh Ltd	P. O. Box 3403 Accra	0302 - 221831 & 221815	Planters, Boom sprayers
13	Bow's Agric'al Machinery Ent.		0302-673784	Corn mills
14	Mechanical Lloyd Co Ltd	Box 2086, Accra.Near STC Accra. Or off Adenta - Aburi road.	0302-229312	Massey Ferguson tractors, implements, Combines harvesters

15	Ghana Heavy Equipment Ltd	P. O. Box 1524, Accra	0302 - 680118 & 681637	Zetor tractors, implements, sheller,
16	Reiss & Co. (Gh) Ltd	P. O. Box CT 5064 Cantonments, Accra	0302 - 775359 & 775848	Outboard motors, irrigation pumps
17	Deng Ltd	Accra	0302-233779/ 233780	Pumps,
18	John Deere Agric'al & Equipment Co. Ltd	Nsawam	020-4331501	John Deere tractors, implements,
19	Jubilee Tractor & Assembly Plant	Box ps 6900, Adum Kumasi	020-8140720, 0242810321, 0242336699	Mahindra tractors, implements, Foton combined harvesters,

Table 5.9: List of Agricultural Mechanization Services Center's (AMSECs) -2007-2014

No.	Name of Individual/ organisation	Location	Address / Tel	Region
1	Organic and Biodiversity Farming (Issah Quedraogo)	Ahanta West, Wassa Mpohor West	P.O. Box TD 177, Takoradi Tel. 0244939848	Western
2	The Managing Director, Akuafohemaa Mechanisation Services	Kasoa	P.O. box AN 6159, Accra – North. Tel: 0244-626548	Central
3	Emtrade company Ltd, (Emmanuel C. Akuna)	Winneba (Ewutu-Efutu), C/R	P.O. Box 233, Winneba. Tel.0208123185/0244158588	Central
4	Mikleb Ent. (Alhaji Amuda Adams)	Swedru, C/R	P.O. Box 522, Sakomono Estates. Tel. 0277604599	Central
5	The President, Vegetable Producers and Exports Association Of Ghana	Buduatta Junction,	P.O. Box SD 239, Stadium-Accra. Tel: 0244091465, 0244446882	Central
6	Adeaye Enterprises (W. Agyemang Badu)	Dangme East & Dangbe West, GAR	P.O. Box DC 623, Dansoman, Accra Tel. 0243162209	Greater Accra
7	Bremoah Ventures	Amasaman	P. O. Box 285, Amasaman. Tel 020-8179720	Greater Accra
8	S&K Agroservices Providers Ltd,	Tema	P. O. Box SR 140 Tema, Tel: 0244841896, 0276254935	Greater Accra
9	Agric Mechanisation & Inputs Ltd	Amasaman, Ga West	P.O. Box 106, Nsawam. Tel: 0244-232287	Greater Accra
9	The Managing Director, Agric. Machinery Operators Association	Ho	P.O. Box 245, Ho, VR. Tel: 020-9026012	Volta

10	Tropical Agricultural Marketing and Consultancy Services (Sunflower Ghana Ltd.) TRAGRIMACS (Issah Sulemana)	Sogakope/Akatsi	P.O. Box AD 464, Adabraka, Accra. Tel. 0208135861	Volta
11	Addicent Foods Ltd. (M. Nttorinkansah)	North Tongu District, V/R	P.O.Box BT 300, Com. 2 Tema Tel. 0244378522	Volta
12	Ghana-Cuba Agric Services Ltd (Larry Farms Ltd)	Hohoe	P. O. Box 17463, Accra Central. (P. O. Box CT7021, Accra) Tel: 0244379378	Volta
13	Adidome Mechanisation Centre (Mr. Kudzo Agbo)	Adidome	P. O. Box 16, Adidome. Tel: 0243216907	Volta
14	Reddekopp Ministries	Ho-Adaklu	Box HP 1011, Ho. Tel: 0248329718	Volta
15	The Manager, Community Relief (Dickson Degbor)	Sogakope	P. Box SK 2, Sogakope Tel: 0243133261, 020 4702597	Volta
16	Mr. Joe Gidisu,	North Tongu	P. O. Box 18, Adidome, V/R Tel: 0243216907, 0248511817	Volta
	S&K Agroservices Providers Ltd,	Sogakope,SouthTongu	P. O. Box SR 140 Tema, tel: 0244841896, 0276254935	
	Mafi-Akyemfo Mech. Centre.	Mafi-Akyemfo,NorthTongu	P. O. Box 18, Adidome. Tel: 0243-216907, 0248-511817	
17	The Managing Director, Ademec Ltd.	Donkorkrom	P.O. Box AN 10576. Accra-North. Tel: 0202-8155224, 0244-635221	Eastern
18	The Managing Director, Agric Mechanisation & Inputs Ltd,	Nsawam/ Amasaman	P.O. Box 106, Nsawam. Tel: 0244-232287	Eastern
19	The Managing Director, Nomafo farms & Services,	Asutsuare	P. O. Box 522, Tema. Tel: 0244-622105	Eastern
20	ELFA Enterprise (Victor Aglieko)	Fanteakwa (Begoro), E/R	P.O.Box KB 170, Korle-Bu, Accra, Tel.233242167603	Eastern
21	AA Farms (Alex Adeti)	Mame Krobo Afram Plains	Box AC156, Accra 0244959132	Eastern
22	Unkar Limited (Alex Anane-Darko)	Manya-Krobo, E/R	P.O. Box GP4927, Accra, Tel.0246584081	Eastern
23	Community Planning and Development (Justice M. Darko)	Kwahu North District, E/R Donkorkrom	C/o P.O. Box 1, Donkorkrom, Kwahu-North District Tel. 0208774038	Eastern
24	Kwasamay Ltd. (Nana Ackah-Yensu)	Afram Plains Donkorkrom	P.O Box CT 419 Cantoments, Accra Tel. 0244291878	Eastern
25	Mr. Theophilus Asante-Darko	Manya-Krobo, E/R	P. O. Box 521, Accra 0246355366	Eastern
26	Afram Plains Tractor Owners and Farmers Association	Afram Plains	% P.O. Box 20, Afram Plains	Eastern

27	The Managing Director, Royal River Agro Estates Ltd.	Asuogyaman	P. O. Box 15649, Accra North	Eastern
28	Woodland Mechanical Company (Gibson Ankromah)	Sekyere East, Kumawu	P. O. Box AM 176, Amasaman, Accra. Tel. 0207860227/ 0208494736	Ashanti
29	P.N. Industries Ltd (K.N. Poku)	Ejura, A/R	P.O. Box 567 KNUST, Kumasi Tel: 0277454547	Ashanti
30	CEO, Baribon Ltd	Offinso, District	Box AN 11267, Accra. tel 024-2563557	Ashanti
31	Manager, Clear Farms Ltd	Agogo-Ashante Akim North	P. O. Box 550, Accra. Tel; 024-9959643, 027-2922359	Ashanti
32	The Chairman, Nso Nyame Ye Women's Group ,	Ejura, A/R	C/o Ejura District Assembly, Box 9, Ejura. Tel: 020-8180485	Ashanti
33	The Managing Director., Faby (Celvic) Ventures Ltd,	Atebubu	Box DS 488, Accra. Tel: 020-8133297, 0244-3508156	Brong Ahafo
34	The MD, Consortium	Wenchi	C/o Methodist University, Wenchi Tel: 021-314542, 0204426114	Brong Ahafo
35	Out of Bounds Incorporated (Daniel Opoku)	Tano Obuasi, BAR	Box KA 310522 Accra. Tel: 024-4318342	Brong Ahafo
36	GUMBIANI FARMS LTD (Mohamed Moro)	Amatin, (Brong-Ahafo), B/A	P.O. Box 5, Amantin, Tel. 0244-076941	Brong Ahafo
37	Kodom Farms (Yaw Kodom)	Nkoransa (Brong Ahafo), B/A	P.O.Box 190, Nkoranza, Tel.0208877301/0244896837	Brong Ahafo
38	Faby Agro Limited. (Francis Amadu Boateng)	Atebubu-Amantin, B/A	Faby Agro Ltd, P.O. Box DS 488, Dansoman Estate, Accra Tel: 0243508156. P O Box 23 Atebubu- Amantin BA	Brong Ahafo
39	Kobbiman Farm Ltd	Nkoranza	P.O. Box 16 Nkoranza Tel. 0244310534	Brong Ahafo
40	Amobaff Ent.	Kintampo	C/o Mr. Amoo Baffoe, P. O. Box M37 Accra Tel 0242675595	Brong Ahafo
41	Tuobodom Unity Cooperation Tomato growers & mkting Society	Tuobodum	P. O. Box 8, Techiman Tel: 0244590427	Brong Ahafo
42	Buwa Ltd	Kintampo – North	Tel: 0244370230	Brong Ahafo
43	Methodist University college (Principal)	Wenchi	Methodist University College, Wenchi	Brong Ahafo
44	Ghana Nuts LTD	Techiman	P.O. Box 825	Brong Ahafo

45	Sofo-Fatao Enterprise,	Nante-Kintampo	P.O. Box 14, Nante-Kintampo, Brong Ahafo. Tel: 0246661959, 0203858130	Brong Ahafo
46	The Managing Director, Fathi Agro-forestry Co-operative Food farming and Marketing Society	Tamale	P. O. Box 841, Tamale. Tel: 0244-679689, 071-23154	Northern
47	The Managing Director, Global Al-mas Ltd,	Bimbilla	P. O. Box 57, Bimbilla. Tel: 0244-177050, 021-517815, 071-25984	Northern
48	Sakfos Farms (Sakara Asumah Rennie)	West Gonja (Damango), N/R	P.O. Box DM 111, Navrongo Tel: 024 3523848	Northern
49	Green Planet Ltd. (A. Ayariga)	Tamale, NR	P.O. Box 100, Tamale. Tel: 024 8140000	Northern
50	Sakpe Agricutural Ent. (Ibrahim Adam Fawzy Momoa).	Central Gonja, N/R	P.O. Box CT 5577, Cantoments Accra Tel.	Northern
51	Kukurdama Enterprise (Alhaji Yusuf Salifu Abdella).	Bimbilla, N/R	P.O. Box 1104, Tamale	Northern
52	Bosbbel Kofi Ansah	Tamale, NR	P. O. Box 279,Tamale 07123342, 0244864799	Northern
53	Laangu Farmers Ass. Janga Walewale West Mamprusi	Janga, Walewale	C/o MOFA P.O.Box 4 Walewale	Northern
54	Tijo Farms (Alhaji Ibrahim Adam), Tamale	Tamale	P.O Box 2943 Tamale Tel. 0246847774	Northern
55	Kurbani Farms	Tamale	P.O. Box 65 Tamale Tel. 0244686604	Northern
56	Dagbon Traditional Council (Attn Alhaji Ibrahim Adam), Yendi	Yendi	Dagbon Traditional Council, Yendi	Northern
57	Sofo Awudu Azoka Group	Tamale	P. O. Box 586, Tamale 0244218296	Northern
58	Tas Kalia Ent Ltd. (Hon. Ibrahim Tanko}	Yagaba-Kubori West-Mamprusi District, N/R	P.O. Box 41, Navrongo Tel. 0742-22284, 0208543000, 0244995111	Northern
59	MD, Zijaha Gh. Ltd	Tolon/Kumbugu	Box 1519, Tamale Tel; 024-325-3331, 020-8139652	Northern
60	The Chairman, Tunteya Farming Gp	Zabzugu	Zubzugu District Assembly	Northern
61	Logistics Support Services (Adam Manama)	Bole	Bole District, N/R	Northern
62	Nasara Best Farmers Association	Gushegu	C/o Box GU27, Gushegu 0246733004	Northern
63	AKK Risk Management Consulting Ltd	Yapei	P. O. Box DC579, Dansoman, Accra.	Northern
64	The Municipal Chief Executive,	East Gonja	East Gonja Assembly, P. O. Box 1 Salaga, Tel: 0246753565, 0244868533,	Northern

65	SIMTEX Enterprise	Tamale Central	P. O. Box TML 1354, Tamale tel; 0208154959	Northern
66	Alhaji Mumuni Bolnaba,	Bawku Central	Bonaba Const. Ltd, Box 115, Bawku Tel: 026749019, 0244022425	Northern
67	Hon. Fuseini Alhassan	Gushegu	% Gushegu District Assembly, P.O. Box GU 1	Northern
68	Hon. Alhaji Abdulkarim Iddrisu	Savelugu Nanton	MP, Nanton Constituency, 0243665642	Northern
69	The Manager Agro Concepts Limited	East mamprusi (Gambaga)	P.O. Box 1 Gambaga	Northern
70	Nanduwa Valley Farms & Mecahnization Services, P.O. Box 12, nalerigu, East -Mamprusi. Tel: 0208527331, 0277890418	East Mamprusi - Nalerigu.	P.O. Box 12, nalerigu, East - Mamprusi	Northern
71	Gbewaa Farmers association, % Abubakari Immururana,	Tamale	P.O. Box 1967, Tamale. Tel: 0268587103,0243253331,0244704291	Northern
72	Savanna Agric. & Trading Co. Ltd.,	Chereponi	P.O. Box DS 689, Dansoman, Accra.	Northern
73	Mion District Assembly, Mion	Mion	C/o Office Of the Member of Parliament, Accra. Tel: 0244838977	Northern
74	Kpangmanga Co-operative Food Farming and Marketing Society Ltd.	Nayugu-Gushegu	House No. G 103, Gushegu. Tel: 0243453492	Northern
75	The President, National Farmers & Fishermen Ward Winners Assoc.,	Fumbisi Valley	Box KD 537, Kanda Accra. Tel: 021-222455, 0244-364440	Upper East
76	Goodman & Sons Ltd,	Navrongo	P. O Box 287, Tamale	Upper East
77	lrrigation Farmers Association (Ahmed Bogobiri),	Tono, Kasena Nanakani , UER	Tono cooperative Union, C/o Icour Limited, Box 70, Navrongo	Upper East
78	The Manager, Dolidona Ent	Bolgatanga	P.O. Box 1 Bolgatanga Tel: 0208336643	Upper East
79	Hon. Mahama Ayariga,	Bawku	Office of the President, Accra. Tel: 020 6662337	Upper East

80	Yelsumde Farms Ltd. Zongoyire,	Bawku West	P.O. Box ZE 27, Bawku. Tel: 024 4409331, 024 4216591	Upper East
	Bonaba Construction Ltd.	Pusiga	P. O. Box 115, Bawku Tel: 0244-022425	Upper East
81	The Managing Director, Nyivori-Tona Co. Ltd,	Wa	P.O. Box SR 326, Accra. Tel: 027-4523443	Upper West
82	Cashew Farmers Association Wigbert Y. Dogoli	Nandowli District, UW	C/O CWSA Box 810 Tamale	Upper West
83	MCE, Wa Municipal Assembly	Wa	Wa Municipal Assembly, Wa	Upper West
84	DCE, Wa West District Assembly	Wa	Wa West District Assesmbly	Upper West
85	DCE, Wa East District Assembly	Wa	Wa East District Assembly	Upper West
86	DCE, Jirapa District Assembly	Jirapa	Jirapa District Assembly	Upper West
87	DCE, Sisala District Assembly	Sisala	Sisala District Assembly	Upper West
88	DCE, Nandowli District Assembly	Nandowli	Nandowli District Assembly	Upper West
89	DCE, Lambussie District Assembly	Lambussie	Lambussie District Assembly	Upper West

SECTION 6: AGRO-PROCESSING FIRMS

Table 6.1: Some Agro-Processing Firms

ADDICTIVES			
Manufacturer	Product	Contract	Tel. Numbers
Frerox Investment Ltd, Tema	Bisa Powdered Red Pepper	P. O. BOX 1871 Accra Ghana	0244163433
Essaar Agro West Africa Ltd, Tema	Essaar Poultry Feed Concentrate 5%, 20%	P.O. BOX 1317, Achimota	0209229141
Animal Feed			
New Age Feed, Madina, behind Otinibi Chiefs Palace	DOPPYMIX Export High Potency Poultry Feed Broiler Fastgrow, Chickgro, Maggic Lay	P.O. BOX M750, Madina	027492626
Cosmo Seafoods Co . Ltd. Tema, G/R	Cosmo Fish Meal	P.O. BOX MS 157, Mile 7, Achimota	0302415001
Hirigifred Farms, Dobro Ankwa Accra Nsawam, E/R	Hirigfed Feed Chick Starter, Layer Mesh, Broiler Starter, Broiller Finisher, Chick	P.O. BOX 13559, Accra	0244686875
Flour Mills of Ghana Ltd, Tema, G/R	Sankofa Feed Mash Layer , Grower, Broiler Finisher, chick	P.O. BOX CE 11345, Tema, G/R	0244326040
	Sankofa Feed concentrate Layer 20%, Layer 50%, Broiler Starter,50%, Booiler Finisher 50%, Chick 50%		
CEREALS			
Isshad Plus Ent, Accra, G/R	Isshad porridge (Morning Cart ,B –Soya ,Super Mix)	P.O.Box 29, Accra G/R	0206404793
Food Tech Limited	Cornerly corn snack	P.O.BOX GP 350,Accra G/R	0302229336
Maro Industrial Company Ghana Ltd, Accra	Bingo Pops puffy chips(Cheese Flavour)Bingo corn Pop (Milk , chocolate)	P.O.BOX AN 7617 , Accra –North	0244257354
Interfoods Limited,Accra, G/R	Mr snacky Corn and Sna, ck (Chocolate ,malt and milk , cheese ,Salt , Pizza)	P.O.BOX DTD 1460, Sakomaono, Accra, G/R	0302302819
Beredark Ent, Adweso Betom, E/R	Snackies Corn Snacks (Sweet Corn, Spicy Grill)	P. O. BOX KF 706, Koforidua, E/R	0541029442
TOPS 2020 Ventures,Tema,G/R	Berne Foods Cereal Mix (Tom Brown)	P. O. BOX 176, Tema	0244861250
Unique quality products Ent.,Yendi Road, Tamale, N/R	Best Foods Cornsoya Blend	P. O. BOX 209, Tamale, N/R	0200775144

CEREALS (contd.)			
Promasidor (Ghana) Ltd	Yumvita Infant Cereal with Milk (Maize and Wheat, Wheat)	P. O. BOX KA 30530 Accra,	0302436649
MHC Co. Ltd., Afienya, Tema, G/R	Took (Corncrunch Onion & Herbs, Corncrunch Barbecue, Cheese Cornes)	P. O. BOX DD 183, Afienya	0508966945
Brazil Agro-Bussiness Group. Sogakope, V/R.	Champion Long Grain Perfumed Jasmine Rice	P. O. Box SK 139, Accra	0548306996
CCTC Ghana Ltd., Accra, G/R	Pride Special Ghanaian Long Grain Rice (CCTC)	P. O. BOX KIA 30443 , Accra	0302810161
Asboat- O Company Ltd., Atasemanso. A/R	ASBoat-O Cereal Mix (Wheat & Rice ,Rice ,Oats &Rice ,Mixed Cereals (Maize ,Rice Wheat & Oats)	P. O. BOX KS 1705 Kumasi	0244796263
Food Research Institute, Accra, G/R	FRI Cereal Mix (Maize & Rice) FRI Maize (Fermented Maize Grits) FRI Banku Mix Powder	P. O. BOX M20 ,Accra	0302-519091-5
Rosemary Anabia Enterprise. Lashibi-Tema. G/R	Anabia Millet Tom Brown	P. O. BOX DTD No B32 Lashibi –Tema	0244-206156
Cynland Enterprise	Cynland Tombrown	P. O. BOX KN 229 Kaneshie- Accra G/R	03022366442
Emilkhan Ent., Tamale	D Youngs Cereals (Pure Soya Flour, Brown Rice-Groundnut-Soyabeans Mix)	P. O. BOX 309 ,Tamale	020-834-6068

CEREALS (contd.)			
JIT Supply chain Ltd., Adabraka, G/R	Just-In-Time Cereal	P. O. BOX 6279 Accra	0203 520 356
Celebrate Nobles. Accra, G/R	Mawusi's Special Weanimix (Classic, Royal, Prestige)	P. O. BOX 12463 Accra –North	0264680984
Cynland Enterprise	Cynland Corn Grits (Ekuegbemli and Oblayoo)	P. O. BOX KN 229, Kaneshie Accra G/R	0302236642
E-PABBS-E Services, Tema	E-PABBS-E Weanimix	P. O. BOX SK 614 Sakumono	0244836821
Gerock Enterprise, Somanya Socia Welfare,	Adepa Foods Tom Brown	P. O. BOX YK 1033 Kanda –Accra	0571929090
ITC Network and Farms, Heavy Industrial Area, Tema	ABK Rice	P. O. BOX MP 1993,Mamprobi	0208 612352
Haydar Co. Ltd., Tema	Octavio Long Grain Perfumed Jasmine Rice	P. O. BOX 1089 ,Tema	0548555505
Sampstel Ventures	Stellivita Tom Brown	P. O. BOX C/o School of Medical Sciences ,UCC Cape coast	0246761527
Lemonont Foods Ltd. Accra, G/R	Lemont Cheemos Corn Snacks (Original, Spicy Beef, & Cheese Flavours)	P. O. BOX CT 176, Cantonment, Accra	0277420763
E. Aduenbey Ent., Accra, G/R	Emros Cereal Mix	P. O. BOX 214 ,Accra	0242876185
Comas Foods	Cosmas Ready to cook Banku Mix Cosmas Ready to Cook Hausa Mix	P. O. BOX 1523 , Achimota –Accra	0208173123
B' s Quick Foods Ent., Kumasi	Zeamix Cerealmix	P. O. BOX 14472 ,Adum-Kumasi	02023418882
Vito A1 Bakery, Asokore-Manpong A/R	Oliver Cereal Mix	P. O. BOX UP 715. KNUST –A/R	0208448853

CEREALS (contd.)			
Mawuuwoe Co-Operative Rice Processors and Marketing Society Limited, Hohoe	Forhon Tombrown	P. O. BOX 124 , Hohoe V/R	0541015727
Kings Touch Services	Kings Touch Millet Mix Cereal	P. O. BOX ST 606, Accra –North	0244717791
Nestle Ghana Ltd., Accra, G/R	Nestle Milo Nutrilfill Ready-to-eat Cereal Nestle Cerelac Infant Cereal With Milk (Wheat, Fruit, Rice, Honey) Nestle Cerelac Infant Cereal with Milk (Maize)	P. O. BOX 8350,Tema	0544335484
Takoradi Floor Mill Ltd., Takoradi-W/r	Soft Special Pastry Wheat Flour Selected Hard Spring Wheat Flour (Sunrise)	P. O. BOX 663 ,Takoradi	0312024053
B-Blend Foods, Hohoe	'B' Blend Tom Brown	P. O. BOX 256 , Hohoe. V/R	0205598247
Blessed Child Foods, Accra, G/R	Blessed Child Rice Mix 3 in 1 Blessed Child Rice Mix 5 in 1 Cereal	P. O. BOX NT 722 Accra	0242376586
J' Sack Foods Ventures, Accra, G/R	J' Sack Ceresoy	P. O. BOX 612	0508925015

CONFECTIONERY			
Gablin Foods Limited, Baatsona, Accra	Gablin Instant Milk Choclate Drink	P. O. BOX 15521-Accra-North	0244364040
BD Associates Gh. Ltd., Accra, G/R	Chocomac Prime Cocoa Liquor	P. O. BOX LG 722 Legon	0244719989
Decokraft, Accra-North	Decokraft Handmade Dark Chocolate	P. O. BOX AN 10705 Accra-North	0243927724
Niche Cocoa Industry Ltd.,	Natural Cocoa Butter Natural Cocoa Cake	Tema Free Zone Enclave P.M.B Tema	0303951450
Oxy Industries Ltd., Tema	Suuny Gold Natural Cocoa Powder	P. O. BOX CO 3180 Community 1 Tema	0244374071
Plot enterprise Ghana Ltd., Takoradi, W/R	Gold Brand Cocoa (Liquer, Cake)	P. O. BOX TD 270 ,Mpintsin Ashiem Road, Takoradi. W/R	0207023793
Home Brand Chocolate Ltd., Tema, G/R	Sronko Handmade Milk Chocolate Bar Handmade Milk Choclate Bar (Home CLASSIC, Sronko)	P. O. BOX GP 2843 Accra. G/R	0207023793
ADM Cocoa (Ghana) Limited, Kumasi	ADM Cocoa Mass	P. O. BOX KS 1966 .Kumasi	0244343479
Bliss Bay International Limited	Bliss Bay Toasted Crispy Coconut Chips	P. O. BOX 10068	0244542305
Nestle Ghana Ltd., Accra	Nestle Chocolim Cubes Nestle Choco Milo Malted Cocoa Cubes	P. O. BOX 8350, Tema	0544335484

DAIRY			
Jiggi Ent., Obuasi, A/R	Jiggi Flavored Yoghurt (Strawberry, Pineapple)	C/o P. O. BOX 10, Obuasi	0245 816175
Yebolla Ventures, Bolgatanga, UE/R	Yolono Yoghurt	P.O.Box 809, Cape Cost	0264 901436
Tomsty Ent., Breman Road, A/R	Tom Yoghurt	P. O. BOXKS 6237, Adum – Kumasi	0242 541026
Marama Ventures, Ho	Rama Yoghurt	P. O. BOX 4082, Accra CenTRAL	0243 175664 1
Silbest Ghana Ltd. Makola, Accra.	Silbest Yoghurt	P. O. BOX DM 120 Makol;a, Accra	0268 861587
Zeno Enterprise, East Legon, Accra-G/R	Zenos Probiotic Yoghurt (Natural, Sweetened, Honey Top, Labneh Strained Yoghurt), Greek Style Extra Thick)	Zenos Enterprise, Accra	0244 372980
Frost Bite Ghana Ltd., Accra	Frosty Bite Ice Cream (Strawberry, Vanilla, Chocolate)	P. O. BOX AT 1107, Achimota Accra	0244 894703

DAIRY			
	Frosty Bite Fantsdy Vanilla Ice Cream Frostyb Bite Fantasy Vanilla Ice Cream		
Denew Enterprise. Ashiaman, G/R	Denew Yoghurt	P. O Box AT 1107, Achimota Acrra	0208 159623
Bethbell Ent. Kumasi, A/R.	Goldengate Fresh Yoghurt (Vanilla & Stawberry Flavours)	P. O. BOX KS 8611	0244 942795
7E Co. Ltd., Accra, G/R	Yogofresh Mild Yoghurt	P. O. BOX 14719, Accra	0277 485341
Cheimipong Ent., Abesim, B/A	Chemi-Fresh Strawberry Flavoured Yoghurt	C/O Suyani Senior High Sch, BOX 156, Suyani, B/A	0545 156195
Salamatu Special Burkina	Salamatu Special Burkina	H/NO A 124/10	0236 138447
Simpaul Ltd., Joapong, G/R	Happy Cow Cheese	P. O. BOX KD 320, Accra	0509 422334
Caphazan Enterprise, Kasoa	Zeeghurt Flavoured Yoghurt (Strawberry Flavours)	P. O. BOXAF 199, Ada-Foah	0208 494241
Kamian Company Ltd., Osu-Accra, G/R	Viva Yoghurt	P. O. Box OS 2025, Osu-Accra, G/R	0543 665671
Zahrat Ent., Accra	Zahrat Milk with Millet Drink	P. O. BOX GP 740, Police Depot, Tesano	0541 106163
Zeno Enterprise, East Legon,Accra- G/R	Zeno's Probiotic Yoghurt (Tropical –Blend, Tropical-Bits, Very Berry-Blend)	P. O. BOX OS 496, Osu-Accra	0244 372980

DRINKS			
Yabco Focus Co. Ltd., Bolgatanga, UE/R	Starr Fresh Natural Fruit Juice	P. O. BOX 29, Bolgatanga, UE/R	0244 143671
Allied Cocoa Products Ltd., Eddy Williams Yard, busia Rd., Soutyh Odorkor	Broma Natural Cocoa POWDER	P. O. BOX OD 203, Odorkor	0302 307632
Silbest Ghana Ltd. Makola, Accra G/R	Silbest Bissap Silbest Natural Coconut Juice	P. O. BOX DM 120 Makola, Accra.	0268 861587
Life First Chemistist (LFC) Ltd., Kumasi, A/R	Lotti Fruity Fresh Pineapple Juice	P. O. BOX UPO 65, Kumasi, A/R	0244 461962
Hengra Ltd., Apendwa \j\unction, E/R	Hengra Fruit Juice (Pineapple, Cocktail)	P. O. BOX KF K90, Koforidua	0245 799700
1 Africa Industyries Ltd., Accra, G/R	Fire Ginger Spice Gin	P. O. BOX SR-240, Spintex Rd, Accra	0509 225585

DRINKS			
C. Dadzie Ent., Mankessim, C/R.	Adom Cocoa Drink	P. O. BOX 114, Sekondi	0267 258974
Chrislislaw Ventures, Winneba Opp. North Campus, C/R	Chrislaw Spicy Drink	P. O. BOX CO 2871, Tema	0262 002943
Akpet Global Limited, Medina, G/R	Akpet Ice Original Akpeteshie	P .O. AM 412, Amasaman	0209 858503

FATS & 0ILS			
Avnash Industries Ghana Ltd., Tema	Delyte Pure Vegetable Oil	PMB 338, Tema	0540 101144
Vask Foods, Accra, G/R	Vask Palm Oil	P. O. BOX CT 2172, Cantoments, Accra	0264 380023
Homefoods Processing And Cannery Limited. Accra	Homefoods Palm Oil	P. O. BOX KIA 16519, Airport Accra	0302 303914
	Homefoods Vegetables Cooking Oil		
B. Foster Ent., Koforidua, E/R	B. Foster Pure Coconut Oil	P. O. BOX 1508, Koforidua E/R	0208 434550
	B. Foster Shea Butter		
Manaj Trading Ltd., Accra. G/R	Pride of Africa Pure Palm Oil	P. O. BOX 45, Jankama-Aburi, E/R	0546 388339
Adnet Trading Ltd., Accra. G/R	Winnies Palm Oil (Zomi)	P. O. BOX 1438, Accra	0244 058590
Eco-Tech Green Ghana Ltd., Assin Juabin, C/R	Tasty Palm Oil	P. O. BOX OC 1089, Odokou, Accra	0244 225946
Meolas Enterprise, Alajo Accra	Meolas Palm Oil	P. O. BOX 2, Accra	0242 354070
Belinda Asante Import & Export Ent., Accra	Ghana Best Natural Palm Oil	P. O. BOX ML 424, Mallam, Accra.	0240 405052
Praise Export Services Ltd., Accra Ghana	Praise African Palm Oil (Regular & Zomi)	P. O. BOX TB 360, Tiafa, Accra	0267986074
Rich A. Danniels Ventures, Accra	RichGreaSol Bread –Pan Lubricant Vegetable Oil	P. O. BOX 7, Anomabo, C/R	0245079375
Stangel Dream Ventures, Accra	Legacy Pure Palm Oil (Zomi)	P. O. BOX GP 2273	0249336603
Garba Baare Co. Ltd Koforidua	Mar-Jar Palm OIL	P. O. BOX 41, Oyoko-Koforidua	0243717622
Pleasantdales Express	Queens Virgin Coconut Oil	P. O. BOX 1497 Dansoman, Accra	0277321000
Amepet Ent., Accra, G/R	Amepet Zomi Palmoil	P. O. BOX NG 262, Nungua, Accra	0240508870
Wilmar Africa Ltd., Tema	Alffi Vegetables Oil	P. O. BOX P.M.B 169, Tema	0207495093
DKM Shea Butter Processing factory Ltd., Wa, U/W	DKM shaea Butter	P. O. BOX 2068, Wa	0203788899
Meannan Foods , Tema, G/R	Meannan Fods Palm Oil	P. O. BOX CO 950, Tema, G/R	0244280527

FATS & 0ILS			
Dali Industrial Company Limited, Tema, G/R	Dali Soyabean Oil	P. O. BOX SQ `175, Tema, G/R	0244275608
C & S Foods Gh. Ltd., Cemsda Iron City, C/R	Ghana Paaa Palm Oil-(Regular, Zomi) Ghana Taste Zomi Palm Oil Nigeria Taste Palm Oil	P. O. BOX OD 1081, Odorkor, Accra	0244638499

FISH & FISH PRODUCTS			
ICHIBAN Seafoods Co. Ltd., Tems Harbour Area, G/R	Ichiban Frozen Tuna (Belly Meat , Head, Chin, Steak, Loin, Block)	P. O. BOX PMB 135, Tema, G/R	0302216765
Pioneer Food Cannery Ltd, Tema	Petit navire Natural Whole Yellow Fin Tuna (400g, 132g, 190g, 265g) Mareblu Tuna in Olive Oil (500g, 80g) John West No Drin Tuna Steak (With a little Spring water, with a little Sunflower Oil) John West Tuna Chunks (in brine, in Sunflower Oil)	P. O. BOX 40, Tema	0303205051
M-Jap Company Ltd. Djankrom- Nsawam. E/R	M-Jap Volta Lake Smoked Fish Mix	P. O. BOX 840 Nsawam	0244114533
Bin-Abi Ventures, Sabongida, N/R	Bin-Abi Shrimp Powder	P. O. BOX 1145, Tamale, N/R	0208388288
A.A.D Blue Ocean, Accra	A.A.D BLUE Ocean Boiboi Fish	P. O. BOX 1463, Accra-Ghana	0242323239
FRUITS			
Green Action Gh. Ltd, Private Mil Bag, Bawku-Ginandi, U/E	Baobab Fruit Powder	Private Mail Bag, Bawku-Gingandi, U/E	0244873097
Grace Foods, Accra, G/R	Snapple Pineapple Jam	P. O. BOX 11116	0249453079
Ideal Providence Farms, Kpone, G/R	Kroms Homemade Organic Rosella Jam Kroms Homemade Organic Lemon Ginger Marmalade	P. O. BOX 1225, Accra	0244664572

MEAT & MEAT PRODUCTS			
Spicy Foods, Cantonments, Accra, G/R	Spicy Foods Hot Spicy Sausages	P. O. BOX CT 650, CANTONMENTS- Accra	0244 262010
Pro-10 Ghana Ltd., Accra North	Pro-10 Beef Sausage	P. O. BOX AN 15603	0244 185012
Master Meats Ghana Ltd	Master Meats Smoked Chicken Thighs Master Meats Smoked Turkey Wings Master Meats Smoked Beef Sausage Master Meats Beef Biltong Master Meats Steaks (Gammon Steaks & Kassler Streaky Bacon, Smoked Pork Rashers) Master Meat Smoked Porks Sausage Master Meats Cooked Salami Master Meats French Polony	P. O. BOX CT 20, Cantonments-Accra	0244 737166
T.T. International Ltd., Tema	Tasty Mortadella (Beef) Tasty Mortadella (Chicken) Lele Beef Sausage	P. O. BOX DC 1214, Dansoman	0244 336475

ROOTS & TUBERS			
Casso l Ent., Kumasi, A/R	Casso Foods Plantain Chips	P. O. BOX SE 2627	0243 320577
OXY Indstries Ltd., Tema, G/R	Oxy's Gari	P. O. BOX CO 3180, Community 1, Tema	0244 374071
Food Research Institue Accra, G/R	CSIR (Kokonte & Cassava Flour)	P. O. Box M20, Accra	0302- 519091-5
Elsa Foods Ltd., Accra, G/R	African King Plantain Fufu Flour Afican King Plantain Fufu Flour	P. O. Box 7565, Accra-North	0203 140085
Minas God Reigns Ent., Kumasi , A/R	Minas Plantain Chips	P. O. Box R 470 Railways Kumasi	0243 321076
Fudees Limited. Kaosoa. G/R	Our Day Plantain Chips	P. O. Box GP 1008	0262 339292
Cyland Enterprise, Kaneshie-Accra, G/R	Cynland (gari & garmix)	P. O. Box KN 229, Kaneshie-Accra. G/R	0302 36642
Ampomah Farm Foods Industries Ltd., Kumasi, A/R	Affi Vital Foods Gari (School Snax, Flavez, Soya Gari and Parched Crispy Gari)	P. O. Box EF 91, Effiduase-Kumasi, A/R	0267 110726
Lee House & Chemical Ventures	Leemex Plaintain Fufu Flour	P. O. Box 16810 Accra-North	0244 376747
Amab Fine Snacks, Tema G/R	Kele Plaintain Chips	P. O. Box 11550, Tema	0267 110726
Snack Treats Enterprise , Accra	Snack Treats Plaintain Chips (Plaintain Chips, Plaintain Chips and Coated Groundnut)	P. O. Box GP 18588, Accra	0208 979800
J-Nissi Ent., Gbawe, G/R	J-Nissi Ginger Chips	P. O. Box 411, Gbawe Mallam	0272 082923
Sentient Whole Foods, Accra, G/R	Anandam Plaintain Chips (Spicy, Salt-Freeze and Salty)	P. O. Box GP 1771, Accra	0246 96 2328

SPICES & CONDIMENTS			
Bays water Industries Ltd., Keta	Mr. Chef Shrimp Seasoning	P. O. Box 91, Keta	0543 132163
BRM Trading CO. Ltd., Tamale	BRM Dawadawa Spice	P. O. Box 1184 , Tamale	0244455559
Bin-Abi Ventures, Sabongida, N/R	Bin-Abi Dawadawa Spice	P. O. Box 1145 Tamale N/R	0208388288
Zak Belim Ventures, Abelemppe, Accra, G/R	Belim Dawadawa Powder	P. O. Box NM 130 ,Nima Accra	0249465861
A1 Spices	Mami's Spice (White Pepper mix , Curry Powder) Mam'is Spice (Aniseed Powder, Nutmeg Powder, Rosemary Powder) Mami s Spice Powdered Seeds (White Pepper Mix, Nketenkete, (Aniseed)	P. O. Box 345 Kaneshie	0277145764
M2V Ventures, Accra	M2V Spices Garlic Powder M2V Spices Ginger Powder M2V Spices Chilli Powder	P. O. Box AN 12676 Accra-North	0206232696

SUGAR & SUGAR PRODUCTS			
Kama Industries Ltd ,Accra G/R	Kama Pure Honey	P. O. Box AN 5437 Accra-North	0302782702
Samartex Timber & Plywood Co, Ltd	Sax pure Honey	P. O. Box 1 ,Sambreboi	032422021
Tegs Catering Services Ent , Accra , G/R	Tegs Pure Honey	P. O. Box 745 ,Teshie Nungua Estate ,Accra G/R	0277557566
Redeemer Reings Enterprise Accra.G/R	Aroma Organic Honey	P. O. Box CT 9051 Cantonments	0246239388
Gilgal Natural Bee Honey ,Tema,Community 5	Gilgal Pure Honey	P. O. Box CO 634 , Tema	0243573799
B.Foster Ent ,Koforidua E/R	B.Foster Pure Honey	P. O. Box 1508,Koforidua ,E/R	0208434550
Kwaemu Pure Honey , Accra G/R	Kwaemu Pure Honey	P. O. Box GP 1210 Accra G/R	0274301339
M-Jap Company Ltd Djankrom –Nsawam E/R	M-Jap Honey	P. O. Box 840 Nsawam	0244114533
JA 24 FOODS ,Accra	Honeyworld Honey	P.O.BOX CT 10369	0206813554

SUGAR & SUGAR PRODUCTS			
Becky Queen Catering Services	Becky Queen Natural Honey	P.O.BOX 120 Kwabenya High street	0243718799
Felimosco Ent., Ho	Felimo Honey	P.O.BOX 556 , Ho	0287046775
Ver-Ceder Vevtures	Ceder Honey	P.O.BOX ML 311	0244990592
Numbu Innovation Ent ., WA	Numbu Honey	P.O.BOX 215 , Wa-UWR	0246987751
Ikon Tilapia Farm Ltd., Wa. U/W/R	Ceeta Natural Honey	P.O.BOX KP 201,Wa-U/W/R	02664918583
Inkonim Foods	Inkunim Foods Honey	P.O.BOX 15919 , Accra-North , Accra	0244566371

VEGETABLE , LEGGUMES & PULSES			
Food Tech Limited , Accra	Snappy Crispy Peanut Snacks	P.O.BOX 250	0302229336
Winker Investment Limited	Winker Cashew Nuts	P.O.BOX 278 Accra	0572716215
Ghatty Foods , Accra G/R	Ghatty Foods Groundnut Paste Ghatty Foods Cowpea	P.O.BOX ml Mallam , Accra	0264364574
Rajkumar Impex Ghana Limited , Techiman.	Rajkumar Impex Blanched Cashew Kernels	P.O.BOX 855 Techiman	0242329002
ST. Baasa Gh .Ltd. B/A	Fresh Mama Palm Nut Cream	P.O.BOX 92 Chiraa Sunyani	0200950330
Healthy Snack Seeds Ltd Tema,G/R	Healthy Snacks (Sesame Seed,Mixed Seeds)	P.O.BOX 677 Legon ,Accra	0207053724
Global Nanafua Services ,Accra , G/R	Global Nanafua Roasted Cashew Nuts	P.O.BOX GP 14848 Accra,G/R	0208211500
Food Research Institute Accra ,G/R	CSIR Groundnut Paste	P.O.BOX M20 ,Accra	03025190915
Tip Top Food L TD ,Ho V/R	Tomafresh tomato puree	P.O.BOX AW 14 Angola V/R	0244060442
Conserveria Africana Ghana Ltd., Tema, G/R	Pomo Tomato Paste (70g sachet)	PMB 292 Community 1 Tema	0244622789
Nana Adebi Enterprise ,Accra,G/R	Nana Adebi Roasted Cashew Nuts	P.O.BOX A 329 La ,Accra	0208116610
Donposh Homemade Foods, Kumasi, A/R	Adidipa Melon Seeds Paste (Wrewre)	P .O. Box KS 12541, Kumasi	0244 791387
Daniels Mushroom Farms, Kumasi A/R	Wise Choice Fresh Oyster Mushrooms	P .O. Box 1279, Adum-Kumasi	0241437413
ADB And Sons Co. Ltd., Kumasi, A/R	Diana's Tomato Puree	P.O. Box SE 1815, suame-Kumasi, A/R	0241773256
Cynland Enterprise, Kaneshie-Accra, G/R	Cynland Creamy Groundnut Butter	P.O. Box KN 229, Kaneshie Accra, G/R	030236642
Grace Foods, Accra, G/R	Snapple Tomato Ketchup	P.O. Box 11116	0249453079
Olam Ghana Ltd., Accra	Festi Tomato Mix Tasty Tom Tomato Mix Tasty Tom Tomato Paste with additional ingredients	P.O .Box GP 1847, Accra	0303413157

VEGETABLE , LEGUMES & PULSES (contd.)			
Becky Queen Catering Service	Beacky Queen Peanut(Butter, Crunch)	P.O. Box 120, Kwabenya High Street	0243718799
Stangel Dream Ventures, Accra	Legacy Natural Peanut Butter	P.O. Box GP2273	0249336603
Reap Groundnut Paste, Accra, G/R	Reap Groundnut Paste	P.O. Box KN 1089 Kaneshie, Accra	0269450777
Bleka Industries Limited	Bleka Farm Fresh Tomato Sause(Puree)	P.O. Box 10068, Accra-North	0244542505
Numbu Innovation Enterprise, Wa	Numbu Peanut (Ani Spread)	P.O. Box 215, Wa-UWR	0246987751
Aub Dasan Ventures, Wa-W/R	Nsoroma Groundnut Paste	P.O. Box 579, Wa-UWR	0209517616
Top Up Investment Ltd ., Achimota Accra	Anita Tomato Paste	No. 202, behind Sonidom Filling Station, Achimota	0201577890
Cocoa Research Institude of Ghana	Whole Cashew Nuts	P.O. Box 8, New Tafo Akim., E/R	0540933451
Ntrifoods Ghana Ltd., Accra	Tasty Tom Tomato Paste	P.O. Box GP 1847, Accra	0544310697

Source: Food and Drugs Authority

SECTION 7: AGRICULTURAL COMMODITY PRICES

7.1: Weighted Average Rural Wholesale Prices for Selected Crops

Table 7.1: Annual Nominal Weighted Average Rural Wholesale Price (GH ¢ Per Mt).

CROPS	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
CASSAVA	107.97	111.31	152.75	188.32	183.01	220.70	336.81	499.65	440.37	526.86
YAM	265.77	292.27	380.00	471.46	492.50	580.10	456.17	907.92	942.78	1220.63
PLANTAIN	269.65	302.72	340.10	395.91	481.09	558.65	764.92	900.84	1001.42	1086.45
COCOYAM	248.92	293.99	349.28	391.54	339.04	587.40	836.90	1074.27	1221.21	1215.80
MAIZE	231.61	266.99	491.27	538.18	409.06	651.19	870.27	741.01	1066.56	1421.69
SORGHUM	327.00	326.05	519.55	545.70	513.21	780.52	974.67	1094.94	1325.22	1413.76
GROUNDNUT	783.61	769.45	1099.71	1413.89	1498.57	2166.92	3074.69	3120.04	3646.70	4879.15
MILLET	422.35	412.72	638.41	729.88	731.38	765.37	1052.68	1439.40	1616.73	897.05
RICE	545.95	565.83	873.04	1001.74	910.58	1177.96	1434.91	1660.80	2223.25	2657.21
TOMATO	575.48	649.44	899.83	1503.30	1449.23	1962.97	2573.74	3305.37	4253.09	5246.83

Source: Statistics, Research and Information Directorate, MoFA
See Appendices 1-10 for price trend graphs.

Table 7.2: Indices of Annual Nominal Weighted Average Rural Wholesale Price per Mt (2002 Constant Prices for 2006-2012)

CROPS	2006	2007	2008	2009	2010	2011	2012	2013*	2014*	2015*
CASSAVA	610	629	862	281	273	329	503	148	131	156
YAM	500	550	715	281	294	346	272	119	123	160
PLANTAIN	689	773	869	400	484	562	770	118	131	142
COCOYAM	518	612	727	286	248	430	612	128	146	145
MAIZE	352	406	748	402	305	485	649	85	123	163
SORGHUM	525	523	834	293	276	419	523	112	136	147
GROUNDNUT	567	557	796	461	487	705	1000	101	119	159
MILLET	576	563	871	217	337	352	484	117	131	73
RICE	560	580	896	300	334	432	526	116	155	185
TOMATO	524	592	820	281	535	724	950	128	165	204

Source: *Based on Table 7.1*
** 2012 used as base year (2012 = 100)*

Table 7.3: Annual Real Average Rural Wholesale Price (GH ¢ Per Mt)-(@2002 Constant prices)

Crop	2006	2007	2008	2009	2010	2011	2012	2013*	2014*	2015*
CASSAVA	57.25	53.91	64.24	68.47	62.72	73.41	106.10	465.65	384.26	348.89
YAM	140.92	141.57	159.82	171.41	168.78	192.95	143.70	846.15	822.67	808.31
PLANTAIN	142.98	146.63	143.04	143.94	160.02	185.82	240.96	839.55	873.84	719.46
COCOYAM	131.99	142.40	146.91	142.35	116.19	195.82	263.63	1001.19	1065.62	805.11
MAIZE	122.81	129.32	206.63	195.66	140.19	216.60	274.15	690.59	930.68	941.45
SORGHUM	173.39	157.93	218.52	198.40	175.88	259.62	307.03	1020.45	1156.39	947.46
GROUNDNUT	415.50	372.69	462.53	514.05	512.88	720.77	968.56	2907.77	3182.11	3231.01
MILLET	223.95	199.91	268.51	278.61	250.65	254.58	331.61	1341.47	1410.76	594.03
RICE	289.49	274.07	367.19	372.92	312.06	391.82	452.01	1547.81	1940.01	1759.62
TOMATO	305.14	314.57	378.46	570.79	496.6	652.93	810.75	3080.49	3711.25	3474.49

Source: Statistics, Research and Information Directorate, MoFA
See Appendices 1-10 for price trend graphs
**A Rebased CPI with 2012 constant prices*

Table 7.4: Indices of Annual Real Average Rural Wholesale Price per Mt. (2002=100)

Crop	2006	2007	2008	2009	2010	2011	2012	2013*	2014*	2015*
CASSAVA	85	80	96	102	94	110	158	138	114	104
YAM	84	84	95	102	101	115	86	111	108	106
PLANTAIN	144	148	144	145	161	187	242	110	114	94
COCOYAM	97	104	108	104	85	143	193	120	127	96
MAIZE	92	96	154	146	105	161	204	79	107	108
SORGHUM	93	85	117	107	94	139	165	105	119	97
GROUNDNUT	135	121	150	167	167	234	315	95	103	105
MILLET	103	92	124	79	115	117	153	109	114	48
RICE	106	100	135	109	114	144	166	108	135	123
TOMATO	113	116	140	102	183	241	299	120	144	135

Source**:** *Based on Table 7.3*
*** 2012 used as base year (2012 = 100)*

7.2: National Average Input Prices

Table 7.5: National Average Prices of Selected Agricultural Inputs

								Year on Year % Change			
Input	**Unit**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2010/ 2011**	**2011/ 2012**	**2012/ 2013**	**2013/ 2014**	**2014/ 2015**
NPK	50kg	37.57	34.9	23.97	51.7	80.69	115.17	-7.12	-31.31	116	56	42.73
Sulphate of Ammonia	50kg	27.34	28	18.72	47.2	68.19	99.51	2.41	-33.13	152	44	45.93
Urea	50kg	35.47	33.16	22.56	50.6	71.31	104.19	-6.26	-31.95	124	41	46.11
Round Up	1 litre	10.82	9.83	6.56	13	14.85	20.54	-9.15	-33.29	98	14	38.32
Karate	1 litre	8.21	8.36	5.87	9.2	12.73	13.2	1.8	-29.74	57	38	3.69
Actellic	1 litre	12.82	12.91	11.61	16.3	NA	18.29	0.67	-10.01	40	-	-
Hoe	Single	3.6	4.04	6.65	6.4	6.71	9.09	12.21	64.62	-4	5	35.47
Cutlass	Single	5.65	6.43	9.39	8.3	11.2	16.02	13.88	45.52	-12	35	43.04
Jute Sack	Single	1.71	2.13	2.72	2.6	2.98	6.54	24.78	28	15	15	119.46

Source: Statistics, Research and Information Directorate, MoFA

Table 7.6: Cost of Fertilizer Subsidy with Quantity

Year	**Total subsidy paid by Government (GH₵ million)**	**Total Quantity (MT)**
2008	20.70	43,176
2009	34.40	72,795
2010	30.00	91,244
2011	78.75	176,278
2012	117.44	173,755
2013	64.01	166,807
2014	-	-
2015	44,850	89,200
Total		

Source: Directorate of Crops Services –MoFA
There was no fertilizer subsidy scheme for the year 2014

Table 7.7: Full vs. Subsidized Cost of Fertilizer – 2015

Fertilizer Type	Full Cost (GH₵)/50kg	Subsidy payable by Government (GH₵)/50kg	Price at which Farmers buy Fertilizer (GH₵)/50kg	Percentage (%) of Subsidy
NPK (23-10-05)	115.00	26.00	89.00	22.60
NPK (15-15-15)	115.00	26.00	89.00	22.60
Urea	105.00	21.00	84.00	20.00
Sulphate of Ammonia (SOA)	-	-	-	-

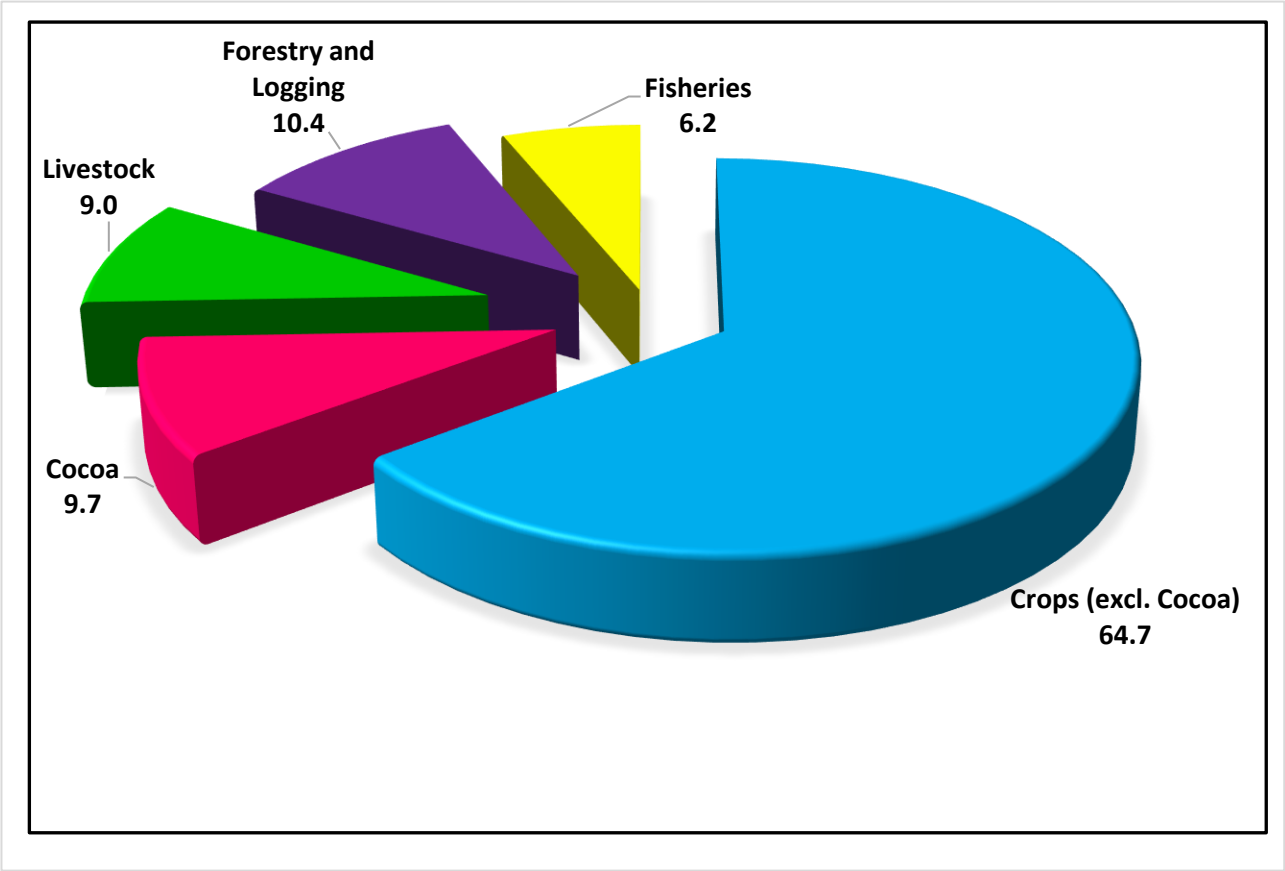
Source: Directorate of Crops Services - MoFA

Table 8.1: Contribution of Various Sub-sectors to Agricultural GDP (AT 2006 Prices).

Sub-sector	Contribution to Agric. GDP (%)									
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015*
1. Crops (excl. Cocoa)	60.1	61.1	62.2	64.3	62.4	63.1	63.3	63.8	64.5	64.7
2. Cocoa	9.9	9.3	8.9	8.7	10.5	11.8	10.5	10.2	10.2	9.7
3. Livestock	8.1	8.6	8.4	8.2	8.2	8.5	8.7	8.7	8.7	9.0
4. Forestry	13.6	13.3	11.9	11.2	11.7	10.0	10.4	10.3	10.2	10.4
5. Fisheries	8.3	7.8	8.5	7.5	7.2	6.6	7.0	7.0	6.3	6.2

Source: Ghana Statistical Service, Revised 2015 Annual GDP Bulletin (September, 2016)
**Revised*

Figure. 6: Agricultural GDP (%) by Sub-Sectors - 2015



Source: based on Table 8.1

Table 8.2: Share of Agriculture in GDP (%)

Year	Sector			
	Agriculture	Service	Industry	GDP at Current Market Prices (GH¢-Million)
2006	30.4	48.8	20.8	18,705
2007	29.1	50.2	20.7	23,154
2008	31.0	48.6	20.4	30,179
2009	31.8	49.2	19.0	36,598
2010	29.8	51.1	19.1	45,865
2011	25.3	49.1	25.6	56,070
2012	22.9	49.1	28.0	69,666
2013	22.4	49.8	27.8	85,974
2014	21.5	51.9	26.6	105,550
2015*	20.2	53.3	26.6	133,596

Source: Ghana Statistical Service, Revised 2015 Annual GDP Bulletin (September, 2016)
**Revised*

Table 8.3: Agriculture and Other Sector GDP Growth Rates at 2006 constant prices (%)

Year	Sector			
	Agriculture	Services	Industry	National
2006	4.5	6.5	9.5	6.2
2007	-1.7	7.7	6.1	4.3
2008	7.4	8.0	15.1	9.1
2009	7.2	5.6	4.5	4.8
2010	5.3	9.8	6.9	7.9
2011	0.8	9.4	41.6	14.0
2012	2.3	12.1	11.0	9.3
2013	5.7	10.0	6.6	7.3
2014	4.6	5.6	0.8	4.0
2015*	2.5	5.2	1.0	3.9

Source: Ghana Statistical Service, Revised 2015 Annual GDP Bulletin (September, 2016)
**Revised*

Table 8.4: Growth Rates in Agricultural Sub-Sectors.

Year	Sub-sector					National Agric. Real GDP Growth Rate
	Crops	Livestock	Cocoa	Fisheries	Forestry/ Logging	
2007	-1.3	4.7	-8.2	-7.2	-4.1	-1.7
2008	8.6	5.1	3.2	17.4	-3.3	7.4
2009	10.2	4.4	5.0	-5.7	0.7	7.2
2010	5.0	4.6	26.6	1.5	10.1	5.3
2011	3.7	5.1	14.0	-8.7	-14.0	0.8
2012	0.8	5.2	-9.5	9.1	6.8	2.3
2013	5.9	5.3	2.6	5.7	4.6	5.7
2014	5.7	5.3	4.3	-5.6	3.8	4.6
2015*	2.0	5.3	-2.3	1.3	3.9	2.5

Source: Ghana Statistical Service, Revised 2015 Annual GDP Bulletin (September, 2016)
**Revised*

Table 8.5: Share of Agriculture to Government Budget.

COFOG	Year										
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Agriculture expenditure (nominal) GHC million	25	37	46	89	114	149	212	315	360	421	516
Agriculture expenditure (in 2001 constant prices) GHC million	25	32	77	124	138	162	208	265	254	268	303
National expenditure (in 2001 constant prices) GHC million	382	524	1,177	1,402	1,444	1,937	2,504	3,324	2,620	1,670	2,693
Share of Agric. in national expenditure (%)	6.60	6.10	6.50	8.90	9.60	8.40	9.10	9.90	10.30	16.00	11.20
Expenditure share in GDP (%)	0.70	0.70	0.70	1.10	1.20	1.30	1.50	1.80	1.70	1.60	0.90
Expenditure share in AgGDP (%)	1.90	2.10	1.90	2.90	3.10	3.60	4.50	5.30	5.00	5.10	3.60

Source: Final Report: Basic Agricultural Public Expenditure Diagnostic Review – Ghana's Ministry of Food and Agriculture, 2013

Table 8.6: Performance of Non-Traditional Agricultural Exports

Items	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Total Volume of Non-Traditional Agric. Exports ('000 MT)	399.80	316.60	356.50	293.20	299.50	547.10	553.10	552.40	571.60	670.1
Value of non-traditional agricultural exports in US $m	203.40	197.30	187.60	150.90	164.90	297.00	276.40	306.10	340.70	396.90
Total Value of all non-traditional Exports US $b.	892.90	1,164.50	1,341.00	1,215.00	1,629.20	2,423.30	2,364.40	2,436.00	2,513.80	2,521.69
Contribution(%) of non-traditional agricultural exports	22.80	16.90	14.70	12.40	10.10	12.30	11.70	12.60	13.60	15.74

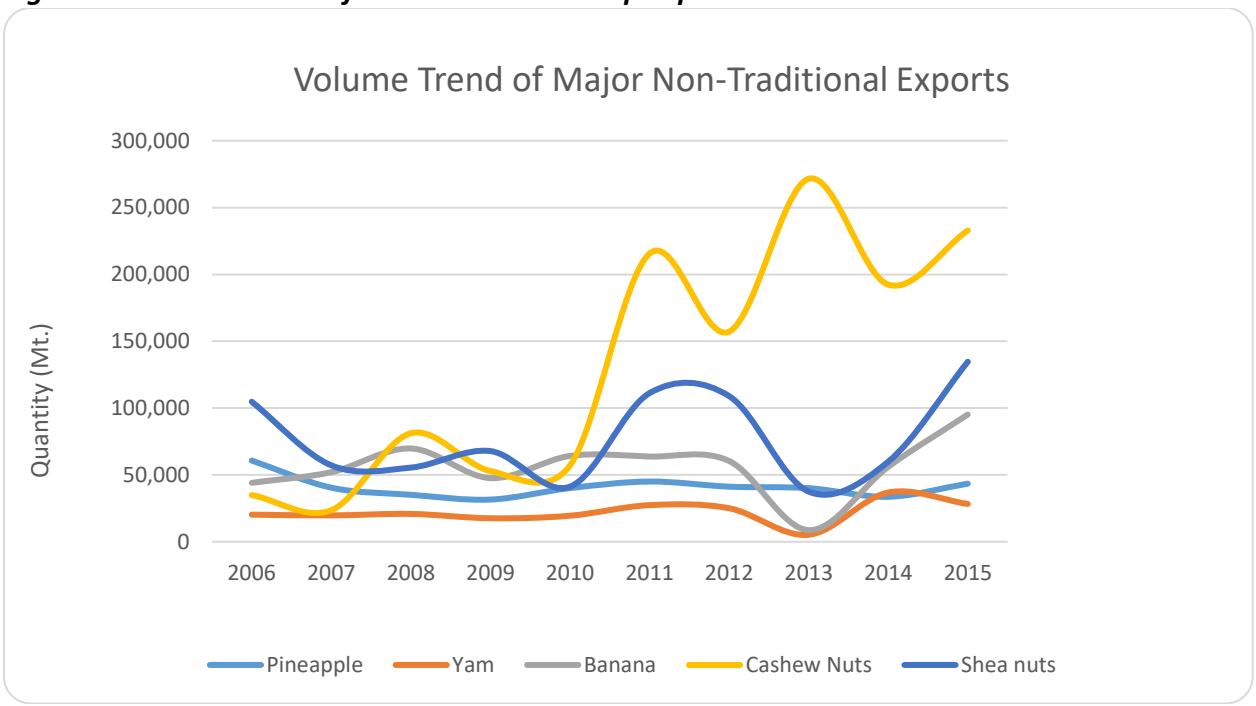
Source: Ghana Export Promotion Council, Accra.

Table 8.7: Volume of Main Agricultural Non-Traditional Exports (Mt.)

Commodity	*2006*	*2007*	*2008*	*2009*	*2010*	*2011*	*2012*	*2013*	*2014*	*2015*	*% Change (2015/2014)*
Horticultural:											
Pineapple	60,751	40,456	35,134	31,567	40,141	45,057	41,212	40,095	33,634	43,461	29
Yam	20,297	19,716	20,842	17,571	19,485	27,393	25,079	5,230	36,826	28,296	-23
Oranges	6,283	3,674	10,991	11,028	10,729	3,812	7,589	8,233	9,025	5,062	-44
Vegetables	n.a	6	n.a.	2,342	3,695	11,658	1,960	n.a	870	338	-61
Banana	44,098	52,069	69,779	47,613	64,202	63,761	60,425	8,656	56,075	95,180	70
Mangoes	182	824	858	435	291	869	1,222	1,789	1,276	2,219	74
Pawpaw	1,912	1,194	968	891	812	920	426	1,119	1,295	664	-49
Fish & Sea foods:											
Tuna Fish	45,476	45,119	26,816	19,325	20,632	4,707	19,799	6,496	26,820	12,138	-55
Other Fish	28,052	18,169	12,394	10,695	4,855	7,972	n.a	7,008	5,792	4,654	-20
Lobsters/Shrimps, etc.	401	493	258	18	75	57	18	52	93	27	-71
Cuttlefish & Octopus	1,284	896	557	149	388	560	412	130	556	1,020	83
Processed & Industrial:											
Cashew Nuts	34,962	23,616	81,190	52,965	57,095	215,587	157,176	271,537	192,376	232,835	21
Cocoa Products	80,426	n.a	107,860	n.a	n.a	233,730	n.a	n.a	220,308	n.a	-
Lint Cotton	5,793	3,772	3,662	n.a	729	1194	n.a	n.a	2,516	598	-76
Coffee	214	1,464	2,023	1,346	1,737	9,035	48,517	918	112	174	55
Cotton Seed	5,354	5,337	3,711	1,201	419	3,530	7,077	2,984	509	n.a	-
Kola nut	945	6,753	4,966	5,182	7,878	1,186	1,758	527	135	n.a	-
Shea nuts	104,747	57,166	55,488	67,826	41,219	111,194	108,976	37,518	59,909	134,651	125

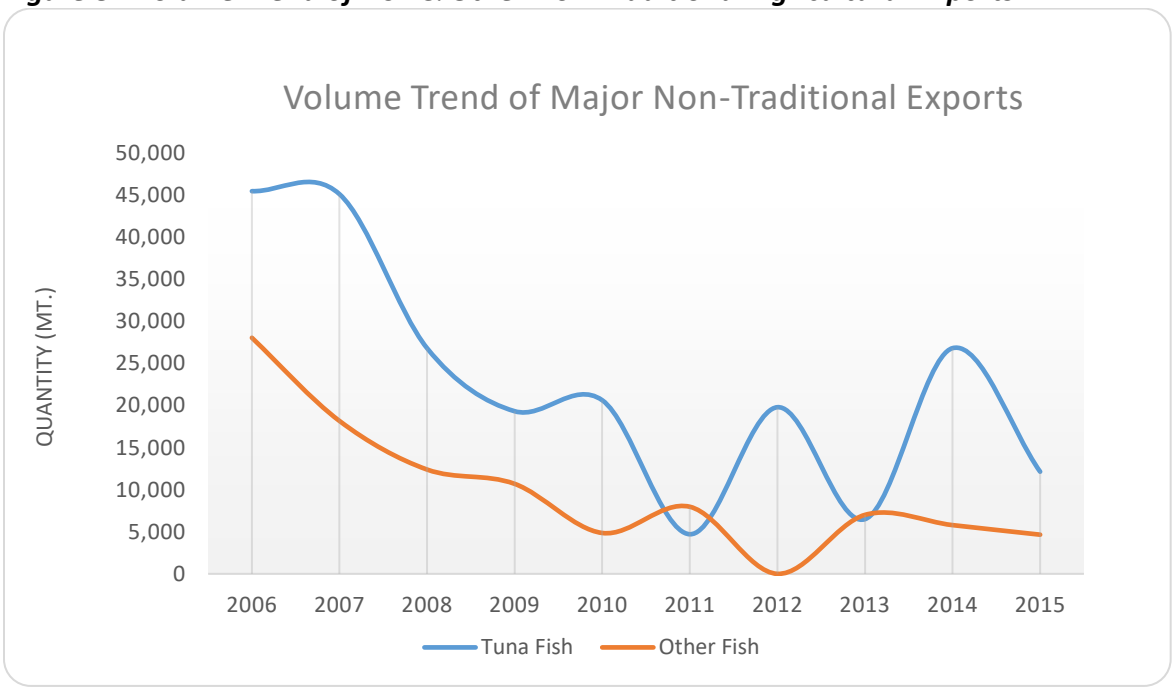
Source: Ghana Export Promotion Council (GEPC), Accra.
n.a: not available.

Figure 7: Volume Trend of Non-Traditional Crop Exports



Source: Based on Table 8.7

Figure 8: Volume Trend of Fish & Other Non-Traditional Agricultural Exports



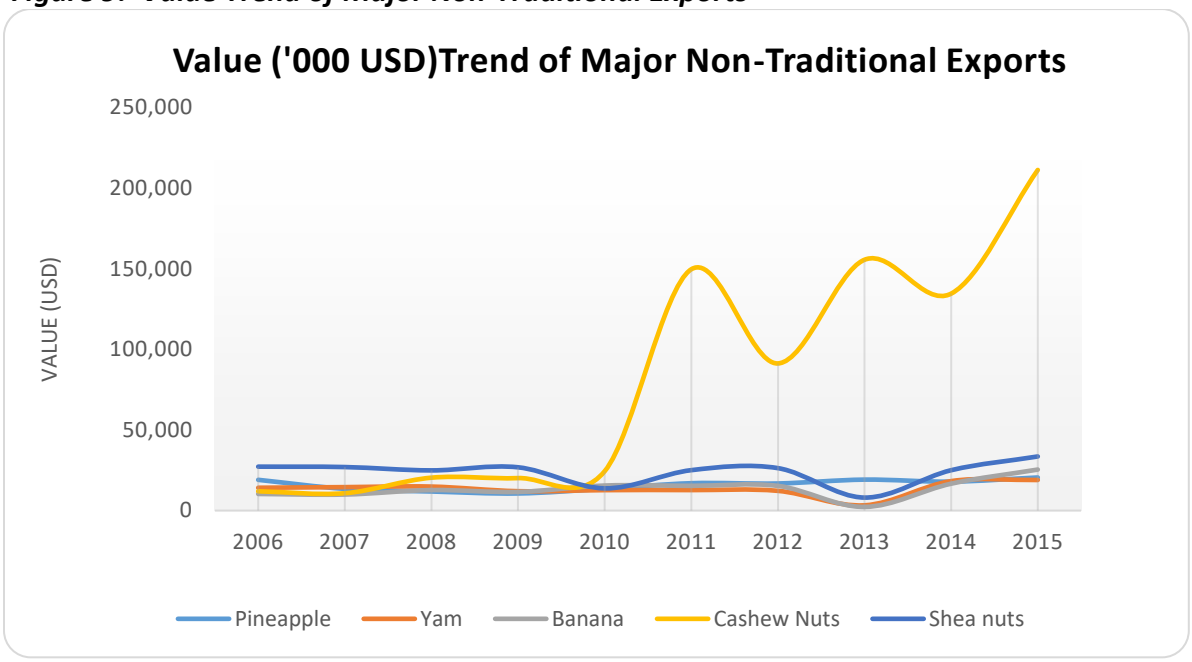
Source: Based on Table 8.7

Table 8.8: Value of Main Agricultural Non-Traditional Exports (US $'000)

Commodity	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	% Change (2015/2014)
Horticultural:											
Pineapple	19,086	13,475	11,842	10,628	13,555	16,973	16,816	19,209	17,960	20,539	14
Yam	14,157	14,551	14,889	12,032	12,688	12,730	12,251	3,255	18,282	18,980	4
Orange (Fresh)	462	333	1,647	875	654	226	483	534	707	310	-56
Vegetables	79	49	n.a	1,362	2,067	3,878	1,215	n.a	705,549	268	-100
Banana	10,330	9,965	12,717	11,590	15,533	15,357	15,317	2,287	16,699	25,443	52
Mangoes	83	998	522	235	230	2,786	2,689	5,111	6,247	7,618	22
Pawpaw	937	1,020	334	546	971	448	136	713	595	446	-25
Fish &Sea foods:											
Tuna Fish	32,148	52,753	40,666	27,667	37,421	10,269	44,999	24,390	42,851	27,785	-35
Other Fish	29,693	27,965	17,350	19,934	9,062	17,088	13,940	7,696	10,043	3,711	-63
Lobsters/Shrimps, etc	1,780	2,174	983	49,600	341	289	92	389	952	143	-85
Processed Tuna	55,520	n.a	n.a	n.a	n.a	220,697	n.a	n.a	n.a	n.a	-
Cuttlefish/Octopus	4,124	3,514	1,759	223	836	4,487	1,455	464	2,476	3,803	54
Processed & Industrial:											
Cashew Nuts	11,975	10,779	20,424	20,154	24,435	149,715	91,290	155,629	134,614	211,328	57
Cocoa Products	152,945	n.a	n.a	n.a	n.a	876,278	n.a	n.a	649,997	n.a	-
Raw/Lint Cotton	4,427	2,102	2,560	n.a	228	253	508	n.a	3,865	864	-78
Robusta Coffee	133	1,808	n.a	1,700	1,974	8,980	n.a	4,278	168	570	239
Cotton Seed	3,187	3,010	1,624	1,106	172	259	970	927	908	n.a	-
Kola nut	944	1,296	975	1,463	1,990	259	393	93	27	n.a	-
Shea nuts	27,249	27,009	24,940	26,853	13,791	25,087	26,338	8,063	25,046	33,572	34

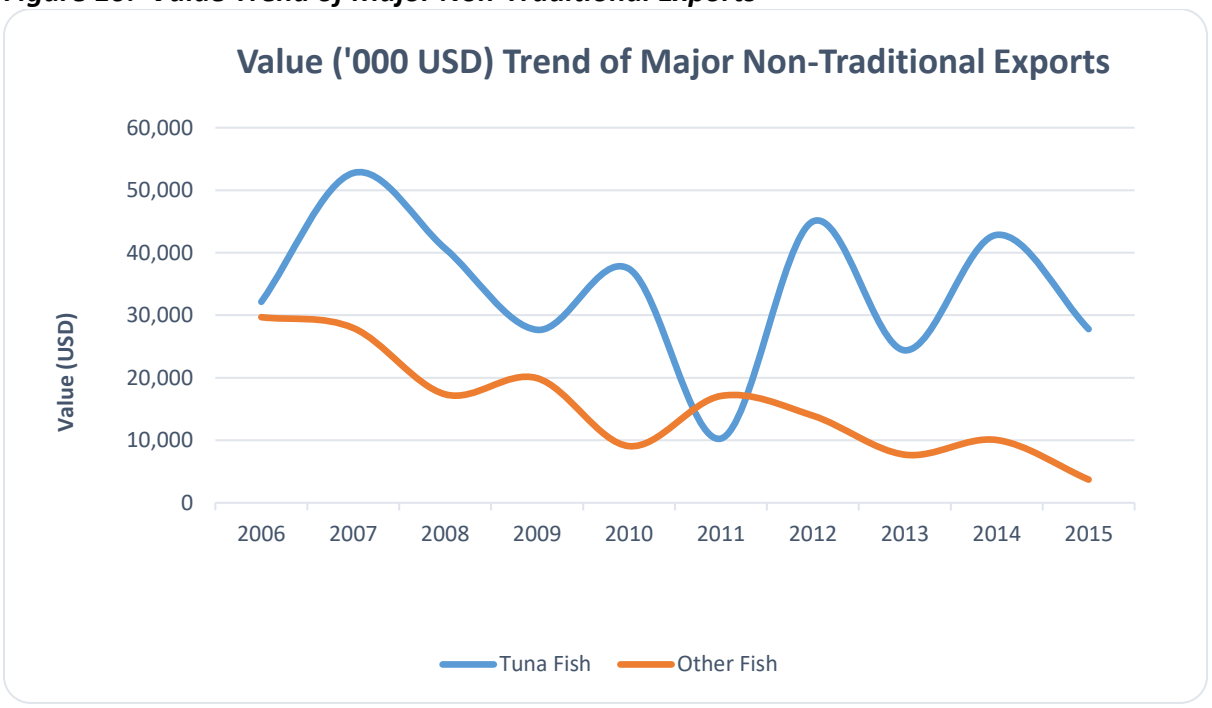
Source: Ghana Export Promotion Council (GEPC), Accra.

Figure 9: Value Trend of Major Non-Traditional Exports



Source: Based on Table 8.8

Figure 10: Value Trend of Major Non-Traditional Exports



Source: Based on Table 8.8

Table 8.9: Quantity and Value of Cereal Imports (2006 – 2015)

Year		Wheat	Rice	Maize	Sorghum
2006	Quantity (Mt)	254,052	389,660	6,572	0.58
	Value $ million	46.37	159.47	1.43	-
2007	Quantity (Mt)	332,299	442,073	596	-
	Value $ million	111.38	157.86	0.21	-
2008	Quantity (Mt)	337,178	395,400	63,869	n.e.
	Values $ million	175.35	187.28	18.69	n.e.
2009	Quantity (Mt)	329,970	383,985	34,333	0.2
	Values $ million	121.8	218.5	8.1	n.e.
2010	Quantity (Mt)	315,838	320,152	955	5
	Values $ million	117.18	200.88	0.66	n.e.
2011	Quantity (Mt)	325,030	543,465	4,515	31
	Values $ million	150.46	391.17	4.38	0.01
2012	Quantity (Mt)	190,711	508,587	113,343	0.6
	Values $ million	149.55	319.8	6.79	0.1
2013	Quantity (Mt)	-	644,334	3,172	-
	Values $ million	-	392.3	3.22	-
2014	Quantity (Mt)	374,597	413,609	6401	0.1
	Values $ million	402.46	221.09	14.44	0.025
2015	Quantity (Mt)	469,263	620,811	113,037	-
	Values $ million	545.23	285.32	26.84	-

Source: GSS.
n.e: Value is negligible
(-) Not available

Table 8.10: Food Aid Imports (Mt)

Year	Wheat	Rice	Soya bean	Sorghum	Maize [a]	Vegetable Oil
2002	44,570	2,010	1,580	9,920	n.a.	n.a.
2003[a]	47,360	667	670	3,500	698	n.a.
2004[a]	25,578	6,751	n.a.	3,497	638	n.a.
2005	20,566	600	n.a.	8,059	1,702	n.a.
2006	42,378	425	n.a.	8,541	2,165	n.a.
2008	n.a.	269	n.a.	n.a.	2,064	n.a.
2009	n.a.	900	2,466	n.a.	1,133	620
2010	n.a.	1,319	n.a.	n.a.	946	1,377

Source: World Food Program
[a] Maize quantity for 2010 (884Mt) is largely Maize mixed with beans and vitamins.
n.a.: None of these commodities came into the country as Food Aid for that year.

Table 8.11: Fertilizer Imports, 2006 -2015

YEAR	NPK (Mt)	Liquid (Lt)	Urea (Mt)	Muriate of Potash (Mt)	Sulphate of Ammonia (Mt)	Phosphates (Mt) *	Nitrates (Mt)	Potassium Sulphate	Cocoa Fertilizer.	*Others	Total	
											SOLID (Mt)	LIQUID (LT)
2006	84,907	-	9,072	19	19,090	99	52,601	103	n.a.	23,988	**189,879**	**-**
2007	87,388	-	4,962	109	17,458	504	52,823	321	n.a.	26,029	**189,594**	**-**
2008	18,873	-	13,773	8,853	4,172	15,440	64,085	371	n.a.	61,463	**187,030**	**-**
2009	197,631	-	25,028	15,007	4,616	66,501	110	n.a.	n.a.	26,293	**335,186**	**-**
2010	30,560	11,521	16,079	12,077	52,117	236,547	n.a.	n.a.	130,314	-	**489,215**	**-**
2011	70,359	844,543	48,552	62,338	20,140	108,862	157	n.a.	n.a.	70,489	**380,897**	**844,543**
2012	230,723	2,692,580	31,950	43,384	83,840	78,355	267	n.a.	n.a.	201,432	**669,951**	**2,692,580**
2013	227,571	264,649	51,044	43,441	68,979	63,700	407	n.a.	n.a.	3,099	**458,241**	**264,649**
2014	89,332	1,345,562	3,864	28,642	7,551	17,182	49,319	n.a	n.a	11,220	**207,110**	**1,345,562**
2015	121,509.83	71,800	23,594.274	25,572.81	59,676.16	43,040.113	49,491.791	n.a	n.a	546,028.248	**430,610**	**510,103**

**OTHERS: ($ZnSO_4$, $Fe3SO_4$, $Ca(NO_3)_2$ $MgSO_4$,$K2SO_4$,$Mg(NO_3$ $NH_4NO_3)_2$,*

Source: 1. Crops Services Directorate, Plant Protection and Regulatory Services Directorate (2012 - 2015), (Ministry of Food and Agriculture), 2. GSS, Accra (2006-2011). Nitrate fertilizers include Potassium and Calcium Nitrate. [a]NPK includes 15-15-15 and other NPKs.

n.a. = Figures not available.

Table 8.12: Pesticide Imports (Mt)

Types of Pesticides	Year											
	2004	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**
Insecticide	610	5,995*	6,999*	10,102*	5,121	6,265*	8,735*	832,810	543,000	1,539	6,513	3,695
Fungicide	770	1,713	2,148	2,575	2,767	1,248	4,955	596,000	180,000	4,599	1167	1,328
Herbicide	1,096	5,340	8,780	8,932	10,835	4,525	n.a.	854,400	991,300	4,723	7,889	294,009
Total	**2,476**	**13,048**	**17,927**	**21,609**	**18,723**	**12,038**	**13,690**	**2,283,210**	**1,714,300**	**10,861**	**15,569**	**299,032**

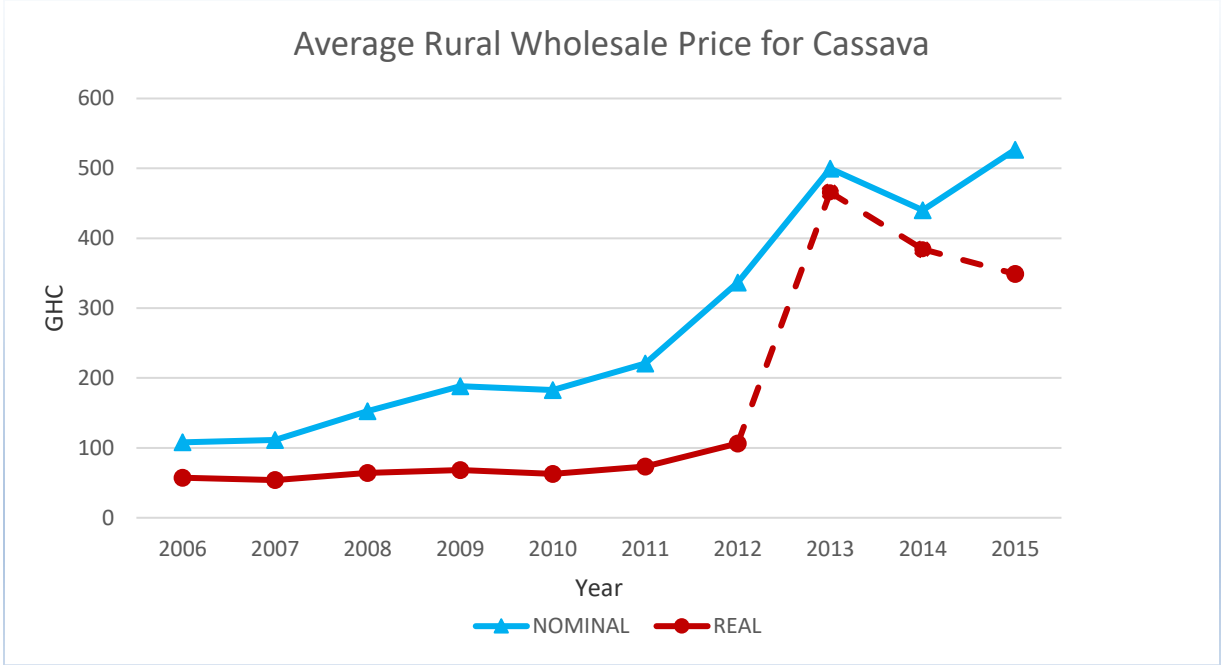
Source: GSS, Accra (2004 – 2010), Plant Protection and Regulatory Services, MoFA (2011 – 2014)
n.a. Figures not available.
** Value also includes that for Rodenticides.*

Table 8.13: Pesticide Imports (Litres)

Types of Agro-chemical	Year							
	2008	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**
Insecticide	3,270,000	3,400,000	3,068,000	4,800,000	4,210,000	6,137,965	7,647,599	18,045,662
Fungicide	180,000	950,000	698,000	52,000,000	186,000,000	637,564	481,330	219,884
Herbicide	610,000	8,980,000	13,162,000	30,300,000	14,600,000	36,869,578	27,741,792	22,209,018
Total	**4,060,000**	**13,330,000**	**16,928,000**	**87,100,000**	**204,810,000**	**43,645,107**	**35,870,721**	**40,474,564**

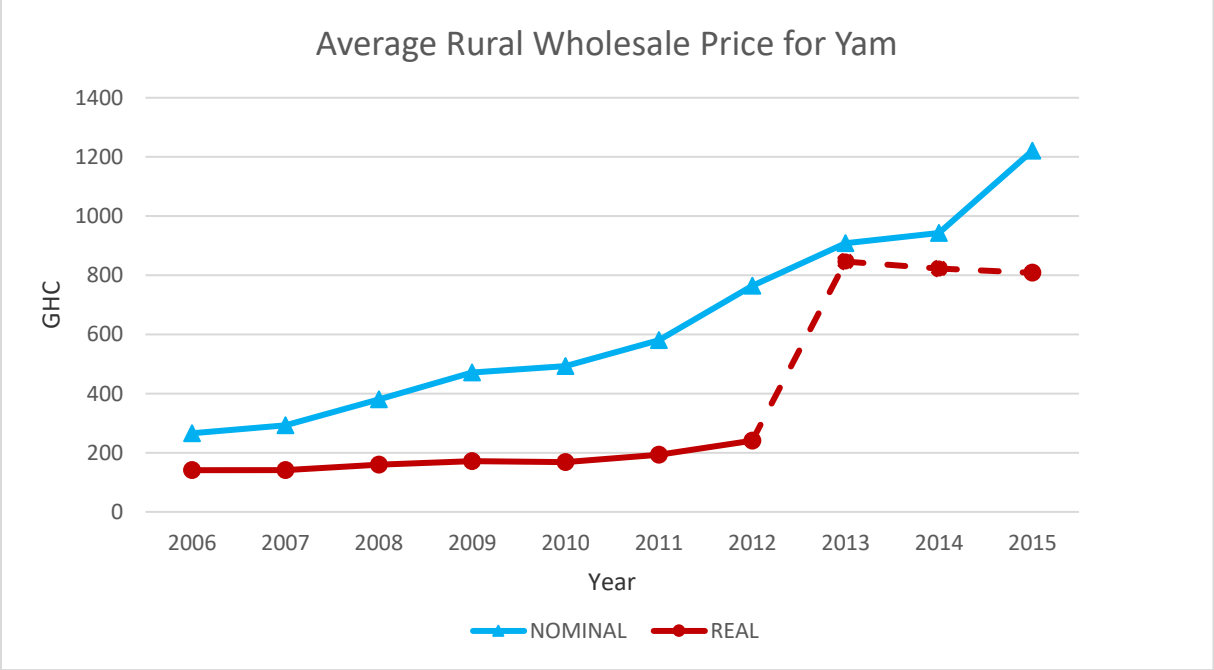
Source: Plant Protection and Regulatory Services, MoFA

APPENDIX 1: Average Rural Wholesale Price for Cassava



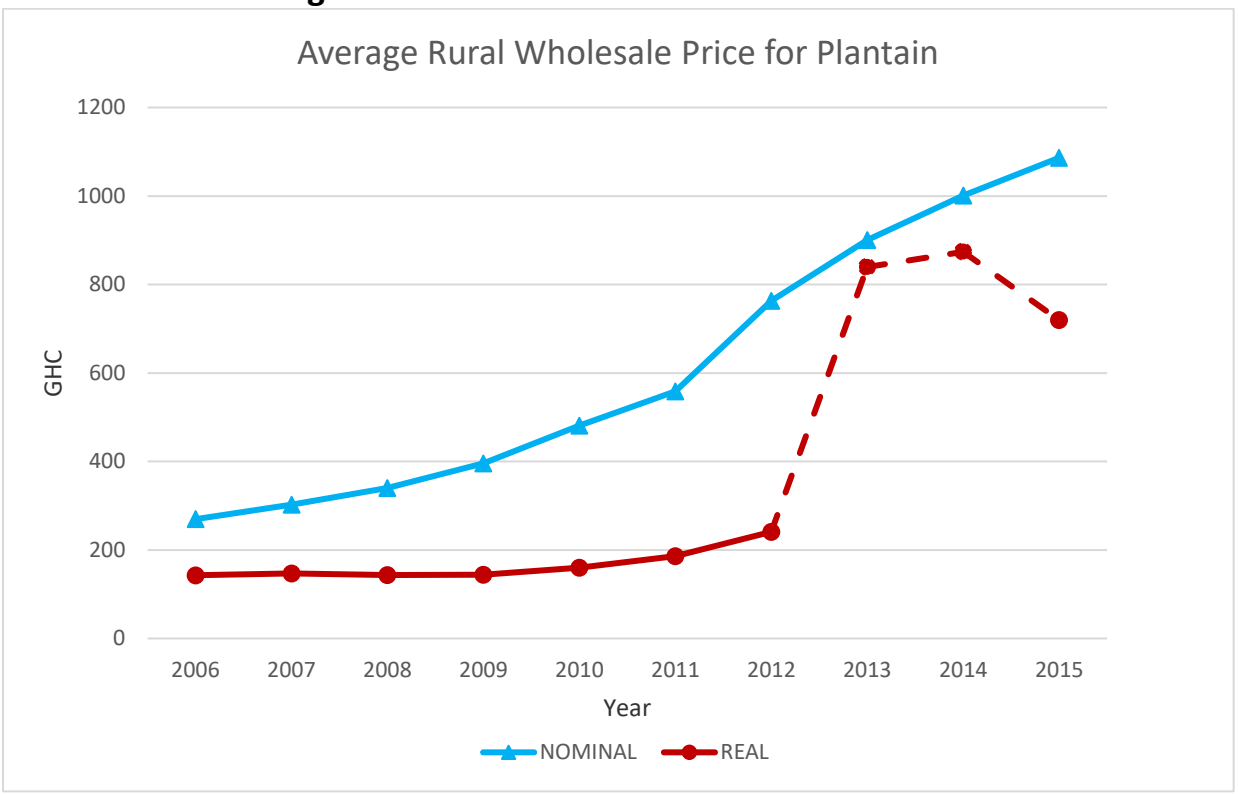
2004-2012 were calculated using 2002 as base year, Year 2013 was calculated using 2012 as base year.

APPENDIX 2: Average Rural Wholesale Price for Yam



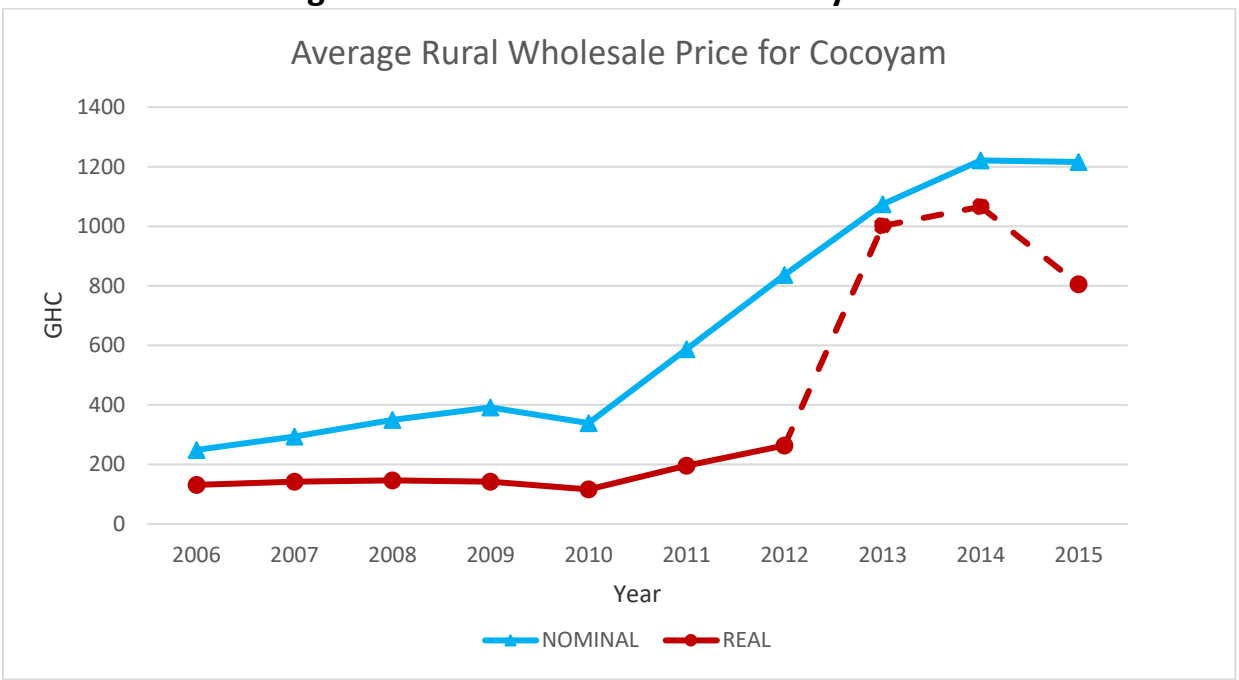
Year 2004-2012 were calculated using 2002 as base year, Year 2013 was calculated using 2012 as base year.

APPENDIX 3: Average Rural Wholesale Price for Plantain



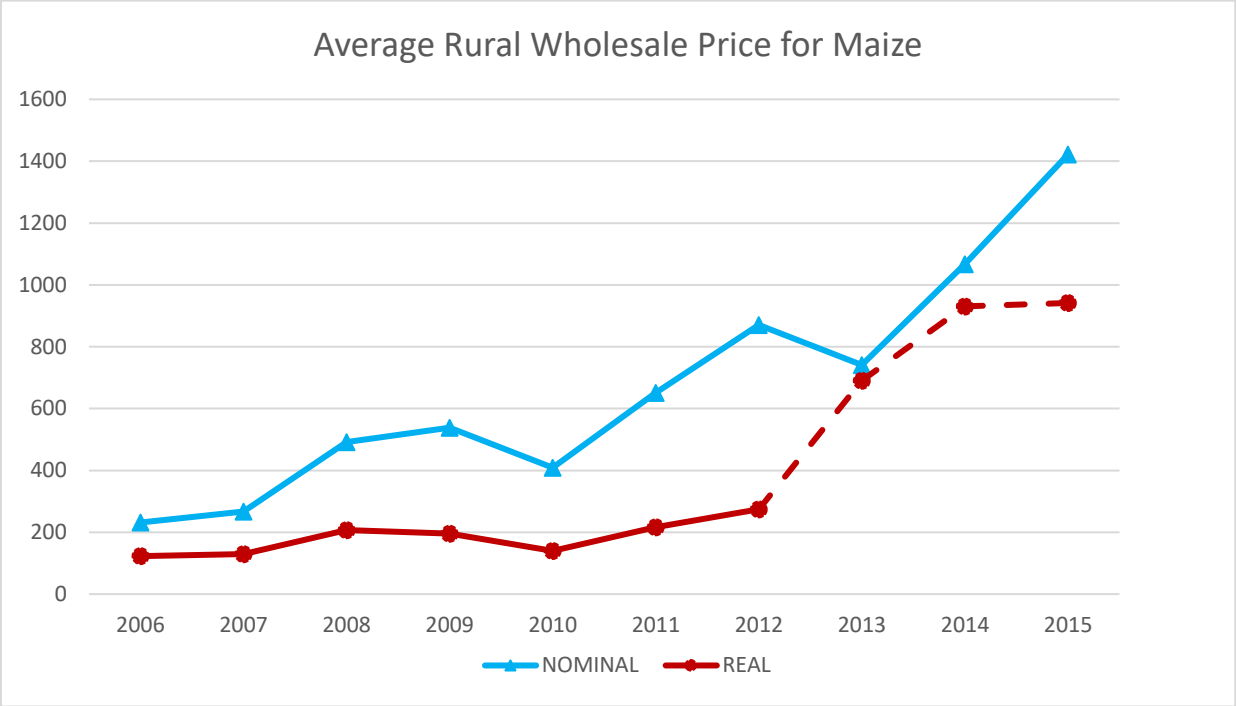
Year 2004-2012 were calculated using 2002 as base year, Year 2013 was calculated using 2012 as base year.

APPENDIX 4: Average Rural Wholesale Price for Cocoyam



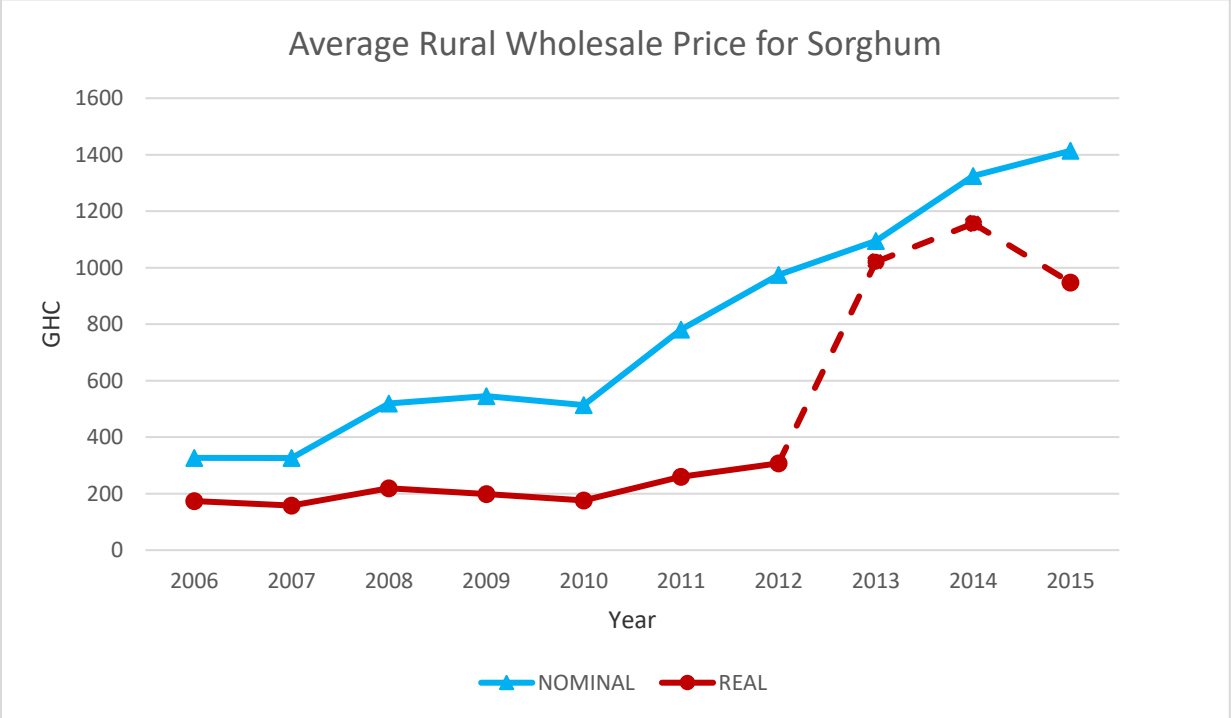
Year 2004-2012 were calculated using 2002 as base year, Year 2013 -2015 calculated using 2012 as base year.

APPENDIX 5: Average Rural Wholesale Price for Maize



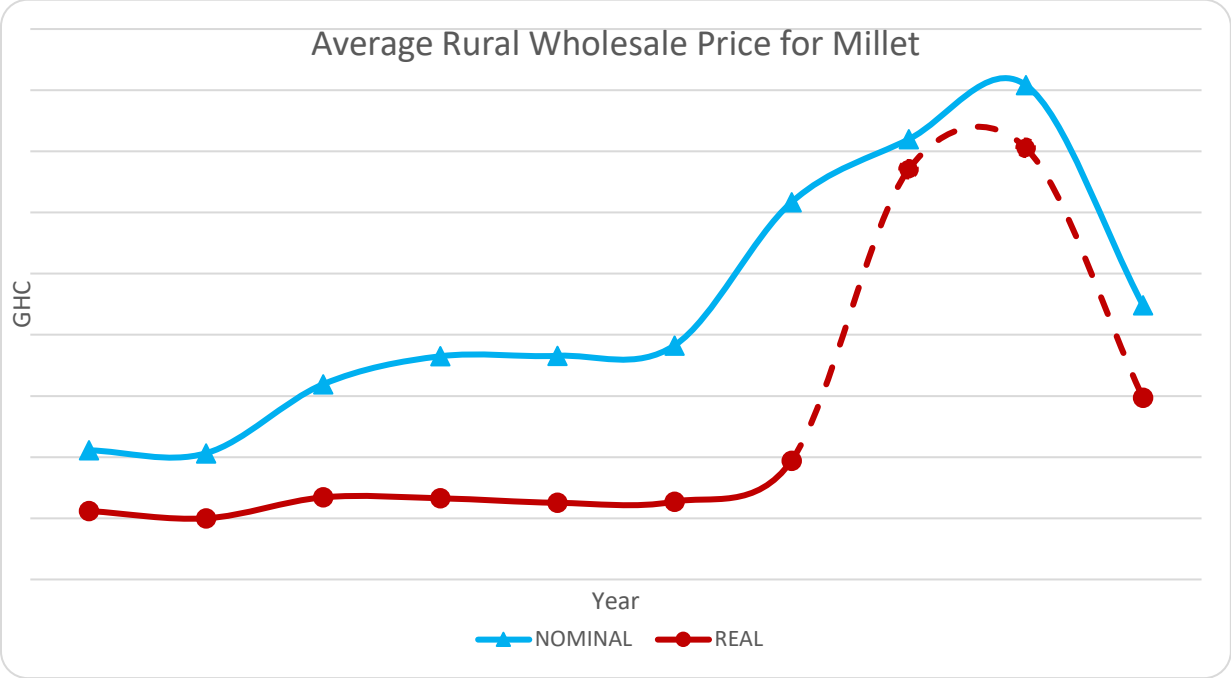
Year 2004-2012 were calculated using 2002 as base year, Year 2013 was calculated using 2012 as base year.

APPENDIX 6: Average Rural Wholesale Price for Sorghum



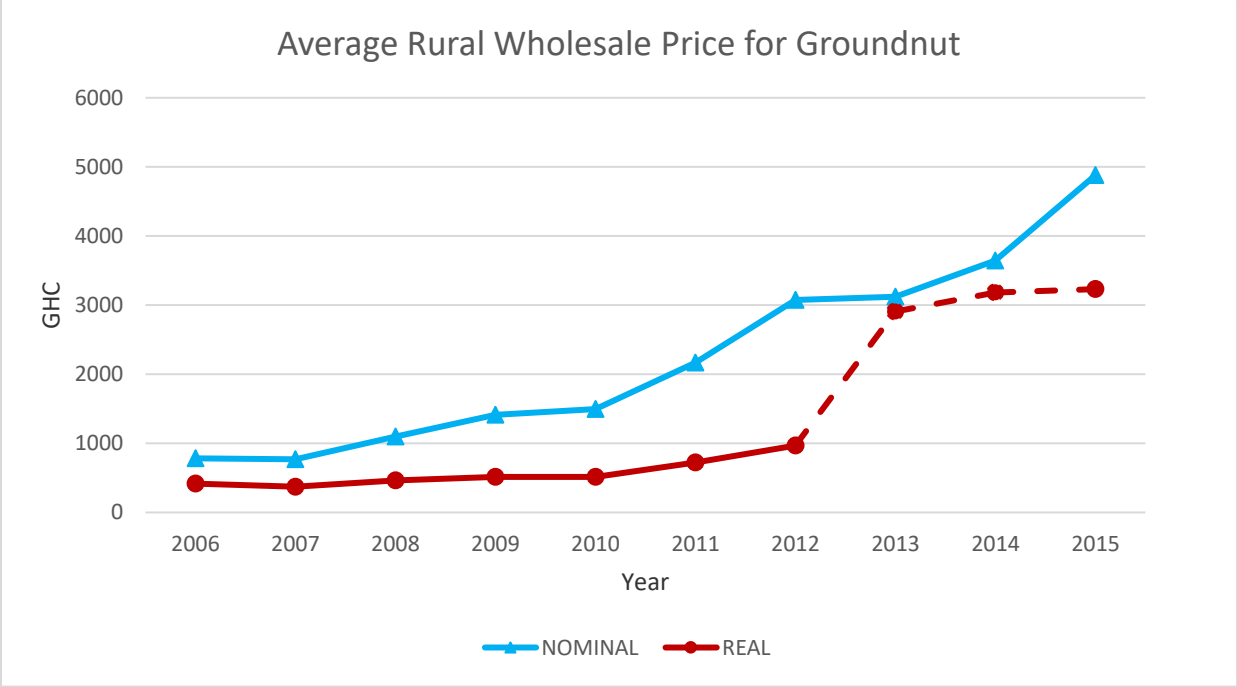
Year 2004-2012 were calculated using 2002 as base year, Year 2013 was calculated using 2012 as base year.

APPENDIX 7: Average Rural Wholesale Price for Millet



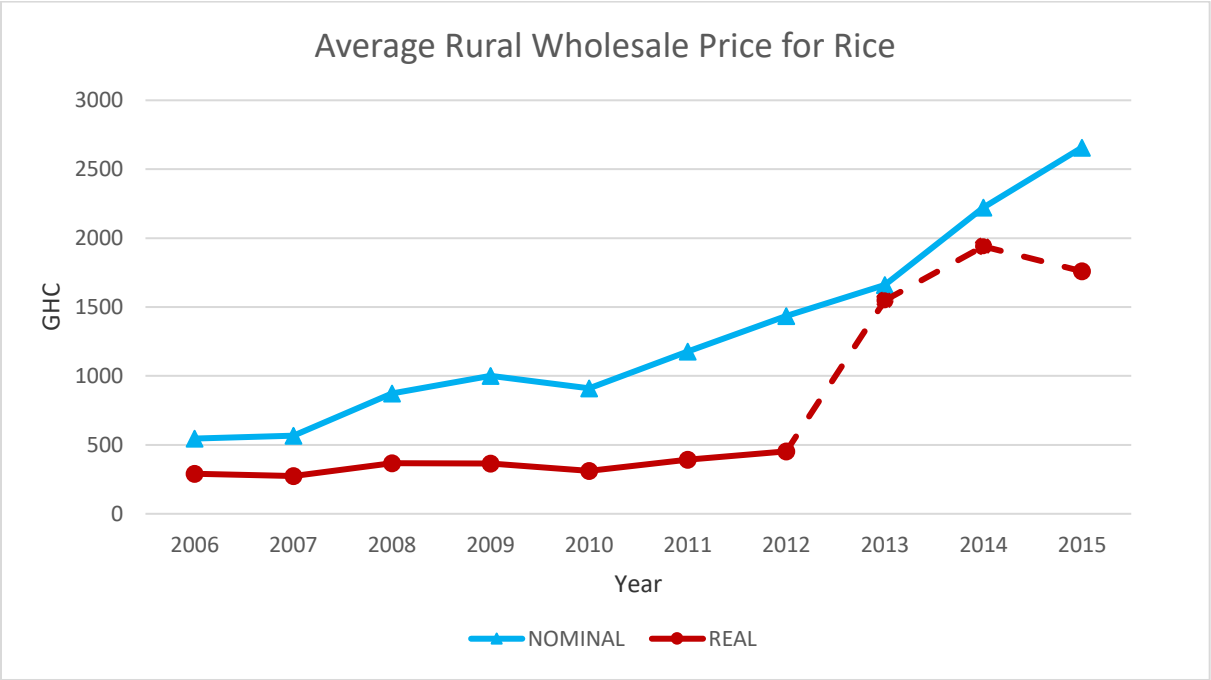
Year 2004-2012 were calculated using 2002 as base year, Year 2013 was calculated using 2012 as base year.

APPENDIX 8: Average Rural Wholesale Price for Groundnut



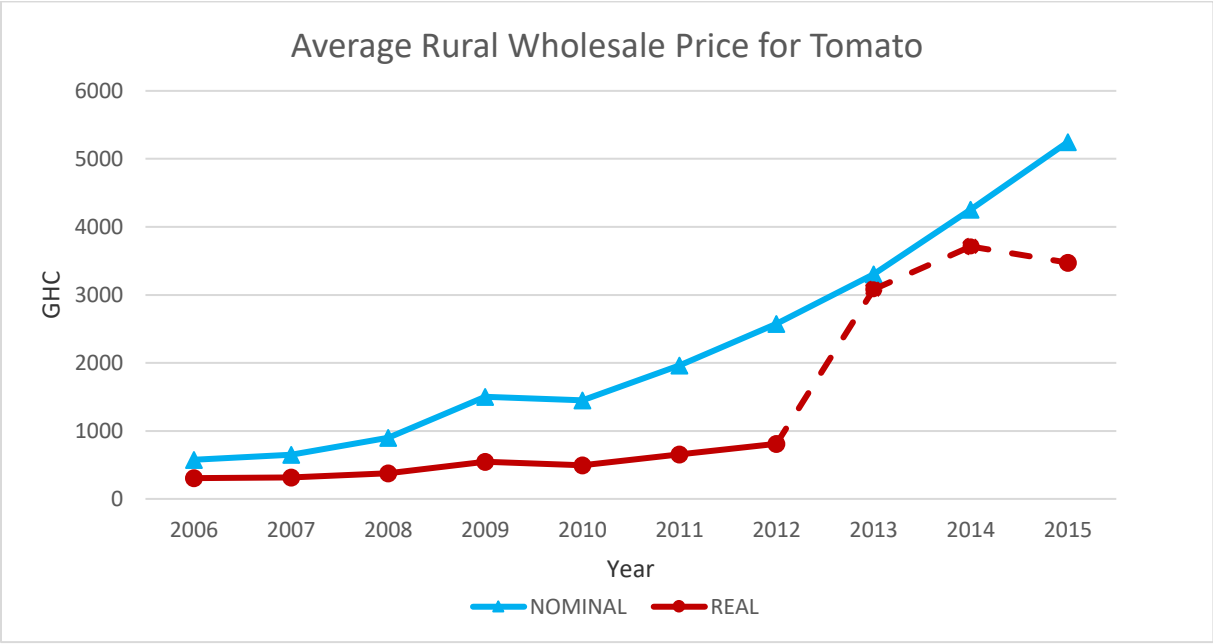
Year 2004-2012 were calculated using 2002 as base year, Year 2013 was calculated using 2012 as base year.

APPENDIX 9: Average Rural Wholesale Price for Rice (Local)



Year 2004-2012 were calculated using 2002 as base year, Year 2013 was calculated using 2012 as base year.

APPENDIX 10: Average Rural Wholesale Price for Tomatoes

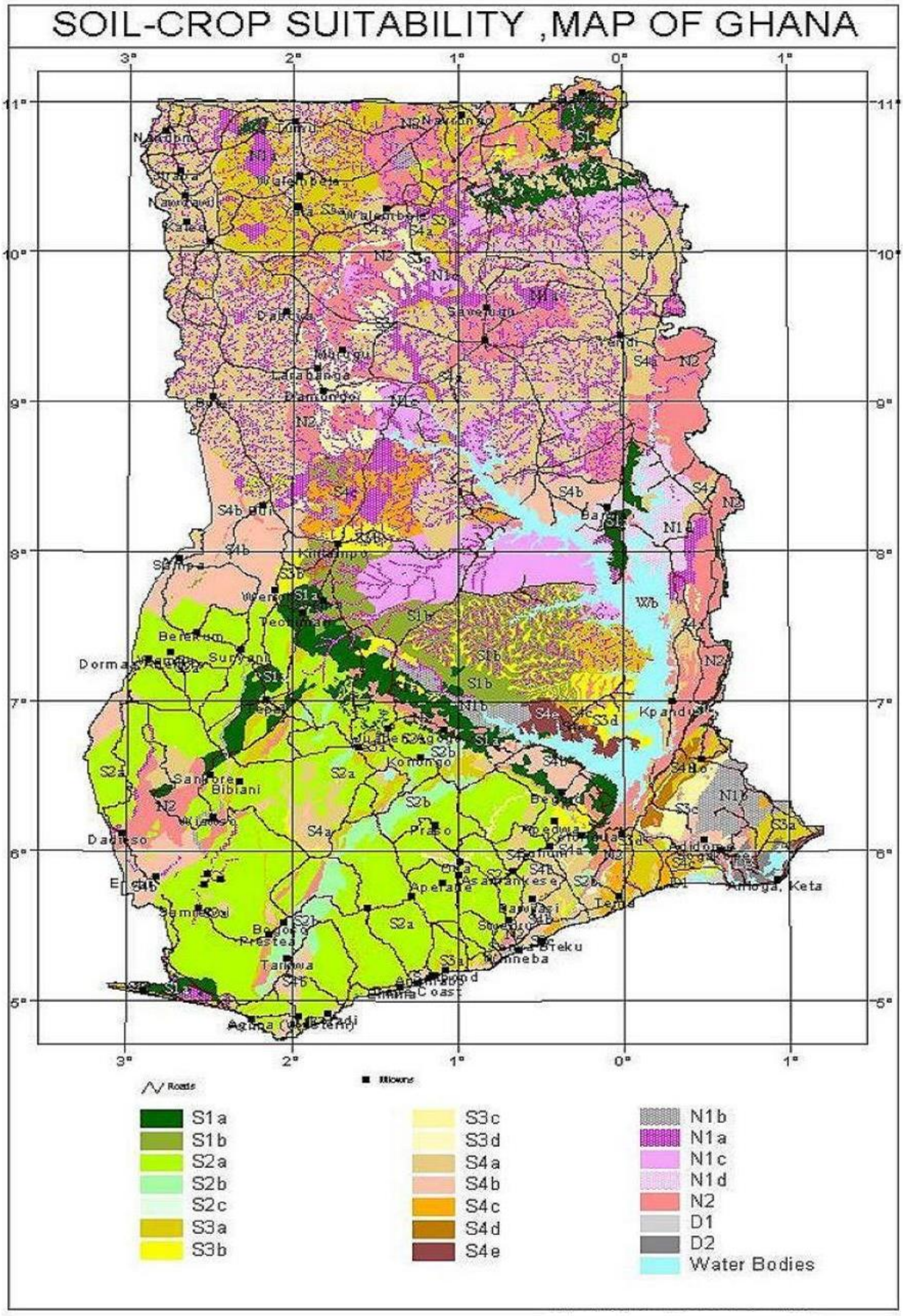


Year 2004-2012 were calculated using 2002 as base year, Year 2013 was calculated using 2012 as base year.

APPENDIX 11: Agro-Ecological Zones in Ghana

Source: Ghana Strategic Investment Framework (GSIF) for Sustainable Land Management (SLM) 2011 – 2015, June, 2011.

APPENDIX 12: Soils-Crop Suitability, Map of Ghana



Source: CSIR-Soil Research Institute, Accra Centre

LEGEND

S1 Highly suitable areas for extensive mechanized cultivation of export and food crops, (cashew nut, sunflower, pineapples, maize corn, guinea corn, soybean, cassava, yam, cocoyam, plantain, beans etc.).

S1a Highly suitable soils, non-gravelly medium to moderately heavy textured. Suitable for cocoa, coffee, black pepper, sweet berry, ginger, citrus, cocoyam, banana, rice, sugarcane and vegetables.

S1b Have same characteristics as S1a above, but are situated in Savanna-transition vegetation zone. These areas are suitable for soybean, maize, yams, guinea corn, millet and groundnuts.

S2Suitable areas for extensive mechanical cultivation of export and food crops.

S2a Crop suitability same as S1. Limitation to crop production may be due to gravelly subsoil horizons.

S2b Crop suitability same as S2a above. Limitation to crop production may be due to either light or heavy textured soils.

S3 Fairly suitable areas for the cultivation of crops such as maize, cassava, vegetables etc.

S3a May consist of heavy plastic clays mostly imperfectly to poorly drained soils good for mechanized irrigation of rice, sugarcane, vegetables, maize and millet.

S3bMostly alluvial soils suitable for maize, guinea corn and vegetables.

S3c Includes gravelly and moderately shallow soils. Could be hand cultivated for cassava, vegetables and maize.

S4Fairly to marginally suitable areas for the cultivation of crops.

S4a Consist of gravelly, moderately shallow to shallow, imperfectly drained soils. Limited to hand cultivation of cassava, citrus, palm oil and mangoes. Soils may occur on upland or undulating of very steep slopes. Problem of soil erosion is predominant.

S4b Soil may be imperfectly drained sands to loamy sands developed over beach sand or may have clay pan beneath the topsoil. Sandy areas may be used for groundnut and tiger nut cultivation.

S4d Soils are mainly loose sands developed on coastal sand dunes. Suitable for coconut cultivation. May be mixed with organic manure for vegetable cultivation as in Anloga areas.

N1Unsuitable areas for upland arable and tree crops.

N1a Predominantly poor to very poorly drained soils, which may be developed for rice, sugarcane and vegetables.

N1b Terrace derived alluvial soils, which are dominated by rounded pebbles rendering them unsuitable for mechanized agriculture. May be suitable for maize, cassava, and pepper cultivation.

N1c Terrace derived soils, which contain surface pebbles and an undurated subsoil horizon. Soils may be left to prevailing grass vegetation for rough grazing of livestock.

N1d Soils dominated by ground water laterites rendering them imperfectly to poorly drain. May be developed for paddy rice cultivation or vegetation should be left for rough grazing by livestock.

N2 Very unsuitable areas for crop production. Soils are very shallow, gravelly, occurring on steep to very slopes. Should be reserved for forestry, wildlife and watershed protection.

D Very unsuitable areas for crop production. Soils are very saline and may be utilized for mining of edible salt.

APPENDIX 13: Imports of Feed (2006 – 2015)

Item	Quantity (MT)									
	2006	**2007**	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**
Fishmeal	633.15	11,057.17	12,242.70	11,530.13	10,638.84	12,623.30	9,719.82	6,255.11	8,475.97	1,082.20
Premix	2,622.67	1,157.20	1,111.60	909.25	672.33	1,030.35	1,534.07	1,155.96	714.47	829.5
Concentrate	4,007.02	4,040.00	2,211.50	4,242.40	9,058.15	5,516.28	10,488.44	15,494.75	11,818.63	10,320.18
Soya bean	2,215.79	6,689.40	1,527.53	1,016.80	315.95	16,923.59	12,954.14	9,000.07	32,450.77	36,041.26
Bread Flour	400.00	-	-	-	-	-	-	-	-	-
Groundnut Cake	60.00	-	-	-	-	174.00	-	-	-	-
Copra Cake	-	500.00	-	-	-	-	-	-	-	-
Maize(yellow)	-	-	4,007.98	-	-	-	759.45	-	-	-
Dried Distillers Grain	-	-	-	430.45	-	-	-	-	-	-
TOTAL	**9,938.63**	**23,443.77**	**21,101.31**	**18,129.03**	**20,685.27**	**36,267.52**	**35,455.92**	**31,905.89**	**53,459.84**	**48,273.14**

Source: Animal Production Directorate, MoFA

APPENDIX 14: Criteria for Estimating Domestic Meat Production

Livestock	Off Take Rate (%)	Average Live weight (Kg)	Carcass Rate (%)	Carcass Wt. of Animal (Kg)
Cattle	11.00	250.00	50.00	125.00
Sheep	30.00	25.00	60.00	15.00
Goats	30.00	22.00	60.00	13.00
Pigs	80.00	60.00	70.00	42.00
Poultry	80.00	1.30	75.00	1.00

Source: SRID estimations, Statistics, Research and Information Directorate (SRID), MoFA.
Criteria:
Meat Production (Mt) = (Off Take Rate (%) x Estimated Population (Table 4.13) X Carcass Weight of Animal (kg))/1000
Carcass Weight = Average Live Weight (kg) x Carcass rate (%)

APPENDIX 15: Annual Production of Some Major Crops in Ghana: 2006-2015
(Figures in '000Mt)

CROP	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Maize	1,188.80	1,219.60	1,470.10	1,619.60	1,871.70	1,684.00	1,949.90	1,764.50	1,768.54	1,691,643
Rice (Paddy)	250.00	185.30	301.90	391.40	491.60	464.00	481.10	569.50	604.04	641,492
Millet	165.00	113.00	193.80	245.50	219.00	184.00	179.70	155.10	155.32	157,369
Sorghum	315.00	154.80	331.00	350.60	353.00	287.10	280.00	256.70	259.00	228,400
Cassava	9,638.00	10,217.90	11,351.10	12,230.60	13,504.10	14,240.90	14,547.30	15,989.90	16,523.66	17,212,756
Cocoyam	1,660.00	1,690.10	1,688.30	1,504.00	1,354.80	1,299.60	1,270.30	1,261.50	1,298.97	1,301,188
Yam	4,288.00	4,376.00	4,894.90	5,777.90	5,860.50	5,855.10	6,638.90	7,074.60	7,118.89	7,296,123
Plantain	2,900.00	3,233.70	3,337.70	3,562.50	3,537.70	3,619.80	3,556.50	3,675.30	3,828.01	3,952,437
Groundnuts	520.00	301.80	470.10	485.10	530.90	465.10	475.10	408.80	426.63	417,199
Oil Palm	1,737.90	1,684.50	1,896.80	2,103.60	2,004.30	2,125.60	2,196.10	2,326.92	2,443.27	2529.51
Cowpea	167.00	118.90	179.90	204.80	219.30	236.70	223.20	200.40	201.26	203,317
Soybean	54.30	49.80	74.80	112.80	144.90	164.50	151.70	138.70	141.47	142,360

Source: Regional and District Cropped Area, Yield and Production Estimates (2005 – 2014) - Statistics, Research and Information Directorate (SRID), MoFA – Multi Round Annual Crop & Livestock Survey (MRACLS)/Ghana Agricultural Production Survey (GAPS), 2015

APPENDIX 16: Annual Cultivated Area of some Major Crops in Ghana: 2006-2015 (Figures in '000 Ha)

CROP	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Maize	793	790.1	846.3	954.4	991.7	1,023.20	1,042.10	1,023.50	1,024.53	880.25
Rice (Paddy)	125	108.9	132.8	162.4	162.4	197.5	189.5	215.9	224.46	233.27
Millet	200	162.7	182.2	186.7	176.7	178.7	172.5	160.7	162.35	162.24
Sorghum	320	208.5	275.9	267.2	252.6	243.5	230.8	225.8	226.92	228.39
Cassava	790	800.5	839.9	885.8	875	889.4	868.5	875.2	888.61	916.54
Cocoyam	260	257.5	251.9	224.6	205.3	204.4	196.3	194	200.4	200.49
Yam	325	323.6	347.6	378.7	384.9	403.8	426.3	421.6	428.01	430.2
Plantain	299	305.3	311.8	324.9	328	336.5	337.3	340	356.59	362.61
G'nuts	480	341.6	350.7	336.5	333.4	356.8	345.2	328.9	334.53	336.45
Oil Palm	302.9	299.9	337.8	352.8	343.3	373.2	387	318.76	349.04	436.27
Cowpea	185	138.8	161.3	162.7	167	182.3	168.8	162	165.83	162.65
Soyabean	52	46.8	61.8	77.3	76.2	85.9	85.2	84.8	86.87	86.27

Source: Regional and District Cropped Area, Yield and Production Estimates (2006 – 2015) - Statistics, Research and Information Directorate (SRID), MoFA – MRACLS/GAPS, 2015

APPENDIX 17: Domestic Meat Production Vs. Imported Meat (Mt)

	2008	2009	2010	2011	2012	2013	2014	2015
Domestic meat	100,935.00	105,772.00	111,390.00	118,504.00	127,038.20	135,412.11	143,603.00	150,751.00
Imports **	125,208.40	95,175.80	91,904.10	111,284.00	97,719.43	88,257.80	45,817.41	48,105.69
Tot Meat Available (Imports +Domestic production)*	226,143.40	200,947.80	203,294.10	229,788.00	224,757.63	223,669.91	189,420.41	198,856.69
Share Domestic (%)	**45.00**	**53.00**	**55.00**	**52.00**	**57.00**	**61.00**	**76.00**	**76.00**
Share Imports (%)	**55.00**	**47.00**	**45.00**	**48.00**	**43.00**	**39.00**	**24.00**	**24.00**

Source: Statistics, Research and Information Directorate (SRID), MoFA – November, 2015

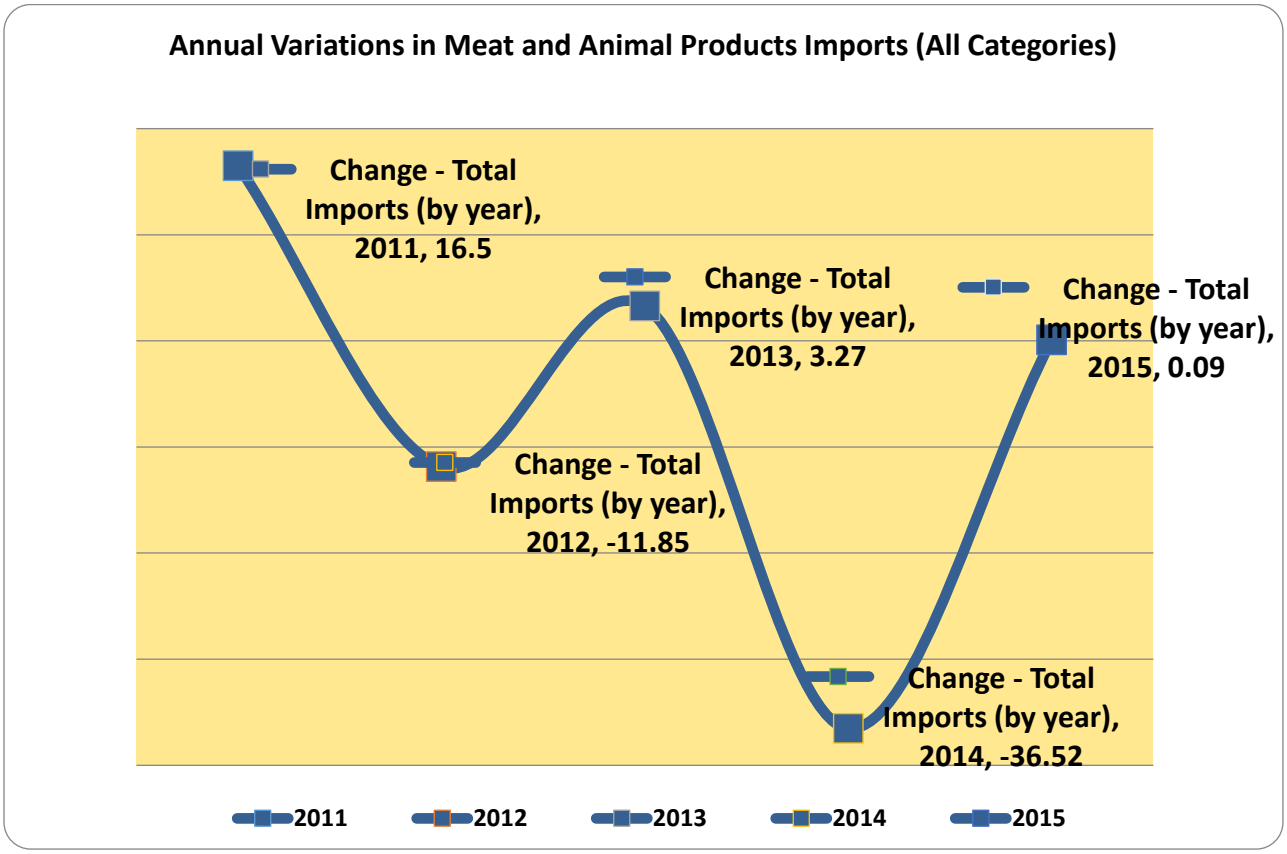
** Total meat available from official records (administrative data); excludes bush meat (animals in the wild)*
***Imports here exclude milk and other dairy products, which on average account for about 21% of total meat and animal product imports*

APPENDIX 18a: Contribution to Total Meat and Milk Imports by Category (Mt)

Category	2011	2012	2013	2014	2015	Total (5-yr)	Share by type to 5 - Yr. Total (All)%	Annual 5 – Yr. Avg.	Share by Type to Cat Sub – tot (Annual Avg.)%	Change 2015/2014	Change (2015 vs. 5Yr. Ann Avg.)%
Bovine											
Beef	14,823.20	16,703.50	21,250.80	12,200.98	9,026.87	74,005.35	13.49	14,801.07	93.68	-26.02	-44.43
Buffalo	2,025.00	1,495.00	905	514.50	57.00	4,996.50	0.91	999.30	6.32	-88.92	-95.38
Sub Total	**16,848.20**	**18,198.50**	**22,155.80**	**12,715.48**	**9,083.87**	**79,001.85**	**14.41**	15,800.37	**100**	**-28.56**	**-48.03**
Poultry											
Chicken	86,372.50	73,788.40	58,999.30	29,638.18	35,369.07	284,167.45	51.82	56,833.49	97.98	19.34	-43.14
Turkey	1,033.00	1,293.70	1,787.00	897.57	772.41	5,783.68	1.05	1,156.74	1.99	-13.94	-38.35
Duck	4.00	78.30	0.00	0.00	0.00	82.30	0.02	16.46	0.03	-	-100.00
Sub Total	**87,409.50**	**75,160.40**	**60,786.30**	**30,535.75**	**36,141.48**	**290,033.43**	**52.89**	**58,006.69**	**100**	**18.36**	**-43.06**
Other											
Mutton	4,520.00	2,574.80	3,251.10	1,661.18	1,712.81	13,719.89	2.50	2,743.98	61.94	3.11	-42.94
Pork	2,507.00	1,785.80	2,064.60	905.00	1,167.53	8,429.93	1.54	1,685.99	38.06	29.01	-35.69
Sub Total	**7,027.00**	**4,360.60**	**5,315.70**	**2,566.18**	**2,880.34**	**22,149.82**	**4.04**	**4,429.96**	**100**	**12.24**	**-40.21**
Milk	27,619.00	24,727.50	38,187.50	34,447.42	32,232.92	157,214.34	28.67	31,442.87		-6.43	3.16
Grand Total (All Cat)	**138,903.70**	**122,447.00**	**126,445.30**	**80,264.83**	**80,338.61**	**548,399.44**	**100%**	**109,679.89**			
Change - Total imports (by year)	**16.50%**	**-11.85%**	**3.27%**	**-36.52%**	**0.09%**						

Source: Veterinary Services Directorate (VSD), MoFA

APPENDIX 18b: Annual Variations (%) in meat and Animal Product Imports (All categories)



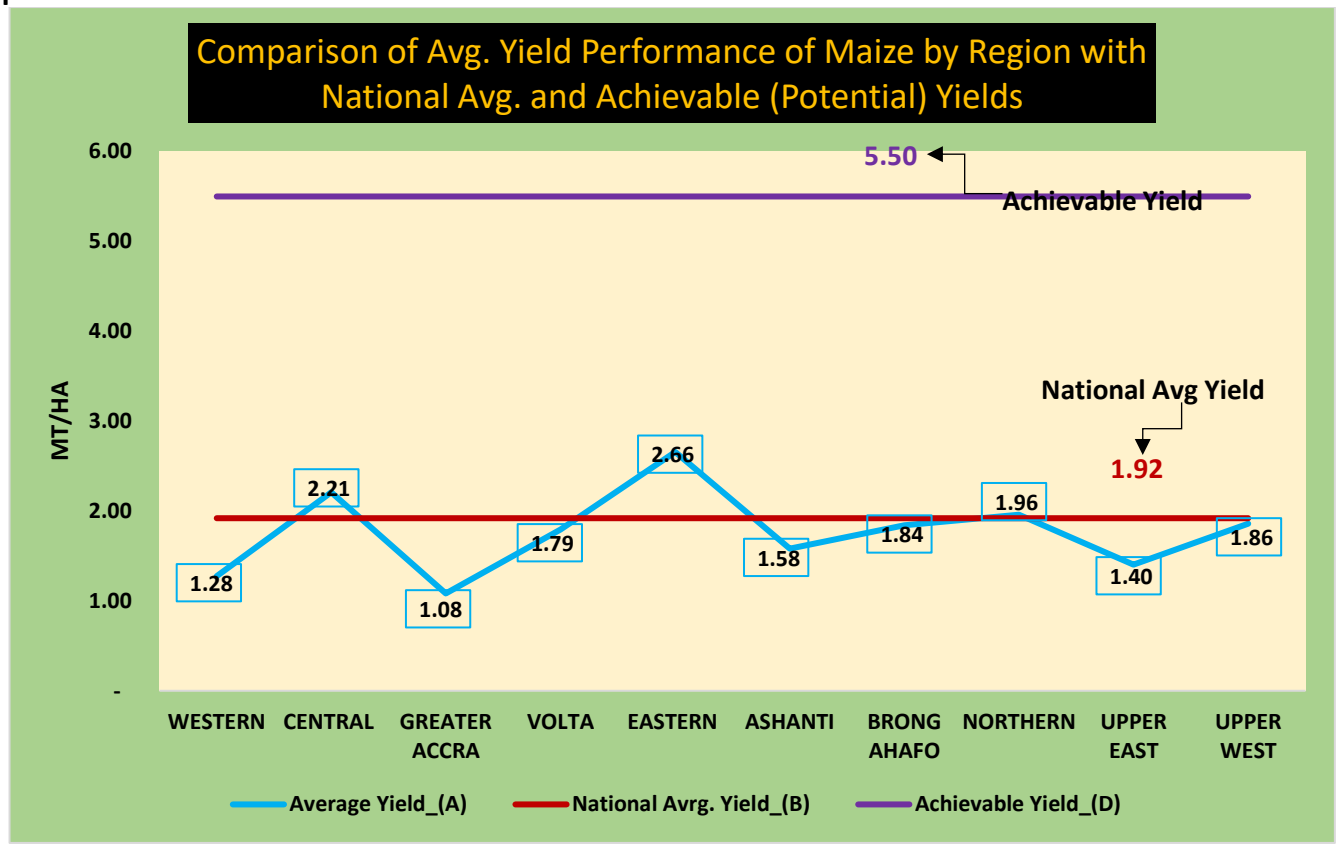
APPENDIX 19: Industry of currently employed persons aged 15 and older by locality and sex (%)

Industry Group	Urban			Rural			Ghana		
	Male	Female	All	Male	Female	All	Male	Female	All
Agriculture, forestry and fishing	19.70	14.20	16.80	74.50	67.90	71.10	48.20	41.40	44.70
Mining and quarrying	2.50	0.30	1.40	3.00	0.80	1.90	2.80	0.60	1.60
Manufacturing	11.20	12.60	11.90	4.50	8.10	6.40	7.70	10.30	9.10
Electricity, gas, stream and air conditioning supply	0.60	0.10	0.30	0.10	0.00	0.00	0.30	0.00	0.20
Water supply, sewerage, waste management	0.50	0.30	0.40	0.10	0.10	0.10	0.30	0.20	0.20
Construction	10.00	0.20	4.80	3.60	0.20	1.80	6.70	0.20	3.30
Wholesale and retail trade	17.20	43.10	30.90	4.00	13.30	8.80	10.30	28.00	19.50
Transportation and storage	12.30	0.50	6.10	3.50	0.00	1.70	7.70	0.30	3.80
Accommodation and food service activities	1.40	9.60	5.70	0.40	3.80	2.10	0.90	6.70	3.90
Information and Communication	1.20	0.30	0.70	0.10	0.00	0.00	0.60	0.20	0.40
Financial and insurance activities	1.70	1.00	1.40	0.20	0.10	0.10	0.90	0.50	0.70
Real estate activities	0.20	0.00	0.10	0.00	0.00	0.00	0.10	0.00	0.10
Professional, scientific and technical activities	2.40	1.20	1.80	0.20	0.30	0.30	1.30	0.70	1.00
Administrative and support service activities	2.60	0.90	1.70	0.50	0.20	0.30	1.50	0.50	1.00
Public administration and defense	2.00	0.80	1.40	0.30	0.00	0.20	1.20	0.40	0.80
Education	6.40	4.60	5.50	2.60	1.20	1.90	4.40	2.90	3.60
Human health and social work activities	1.50	1.80	1.70	0.40	0.50	0.40	0.90	1.10	1.00
Arts, entertainment and recreation	1.40	0.10	0.70	0.30	0.00	0.20	0.80	0.10	0.40
Other service activities	4.60	7.10	5.90	1.10	2.40	1.80	2.80	4.80	3.80
Activities of households as employers	0.60	1.10	0.90	0.70	1.10	0.90	0.60	1.10	0.90
Activities of extraterritorial organizations and bodies	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**	**100.00**

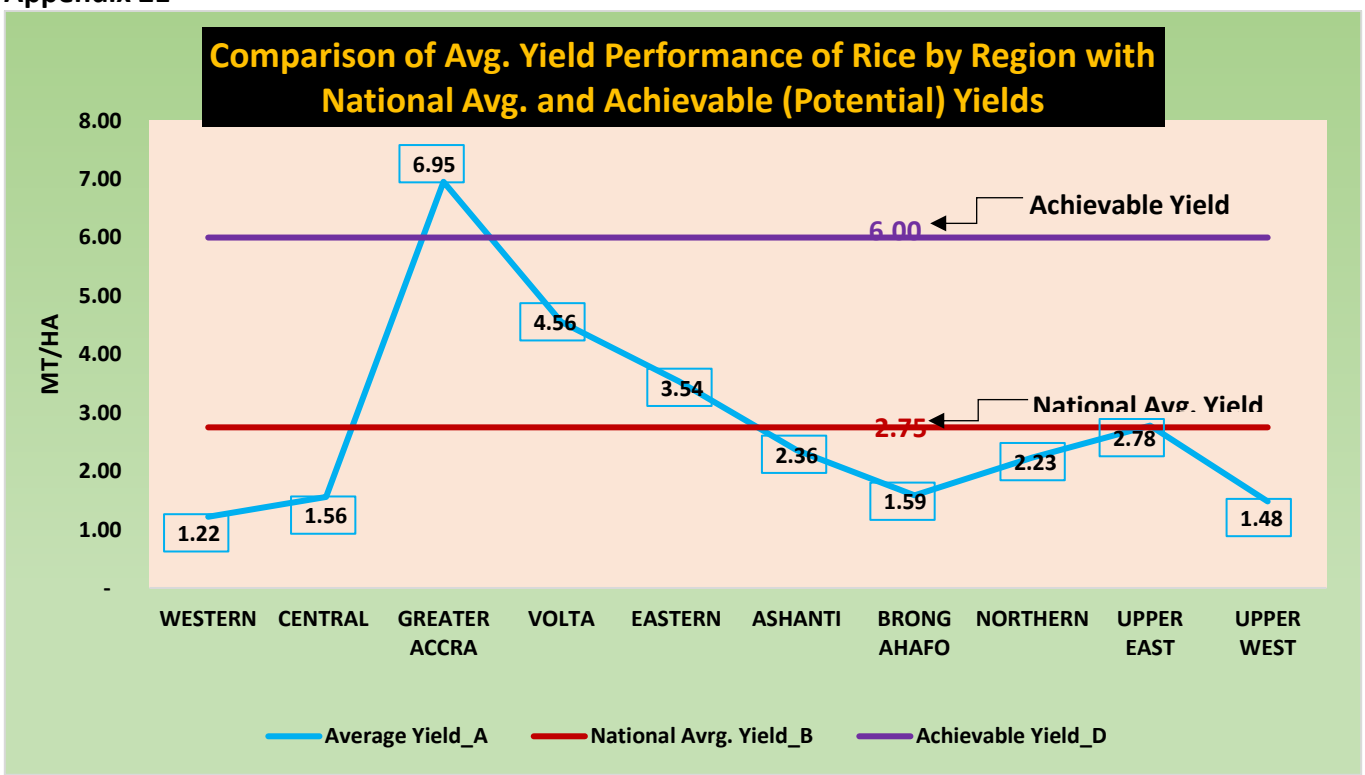
Source: GSS, GLSS 6, THE LABOUR FORCE REPORT, AUGUST 2014.

***Industry:** Refers to type of product produced or service rendered at the respondent's place of work (irrespective of the occupation the person has).*

Appendix 20



Appendix 21



APPENDIX 22: Comparison of District Average Yield (3-Yr.) Levels of Maize with National Average and Potential Yields

A) Districts with Maize Yield performance above National Average (Mt/Ha)

	REGION	No.	DISTRICT	DIST AVG (A)	NAV (MT/HA)(B)	C = (A) AS % OF (B)	ACH_Y (D) (MT/HA)	E=(A) AS % OF (D)
1	ASHANTI	1	Bekwai municipal (Amansie East)	2.58	1.92	134.46	5.50	46.94
2		2	Amansie West	2.51	1.92	130.75	5.50	45.64
3		3	Sekyere East	1.95	1.92	101.77	5.50	35.53
4	BRONG AHAFO	1	Techiman	2.24	1.92	116.59	5.50	40.70
5		2	Atebubu -Amantin	2.02	1.92	105.09	5.50	36.68
6		3	Berekum	1.97	1.92	102.43	5.50	35.76
7		4	Kintampo North	1.96	1.92	102.28	5.50	35.70
8		5	Wenchi	1.93	1.92	100.63	5.50	35.13
9	CENTRAL	1	Assin South	2.65	1.92	137.99	5.50	48.17
10		2	Twifo-Herman/L. Denkyira	2.56	1.92	133.59	5.50	46.63
11		3	Abura-Asebu-Kwamankese	2.43	1.92	126.54	5.50	44.17
12		4	Asikuma-Odoben-Brakwa	2.33	1.92	121.45	5.50	42.40
13		5	Gomoa East	2.12	1.92	110.17	5.50	38.46
14		6	Upper Denkyira East	2.11	1.92	110.11	5.50	38.44
15		7	Effutu (winneba)	2.03	1.92	105.66	5.50	36.88
16		8	Gomoa West	1.97	1.92	102.71	5.50	35.85
17		9	Mfantsiman	1.93	1.92	100.45	5.50	35.07
18		10	Upper Denkyira West	1.93	1.92	100.34	5.50	35.03
19	**EASTERN**	**1**	**West Akim**	**3.62**	**1.92**	**188.41**	**5.50**	**65.77**
20		2	Birim Central	2.70	1.92	140.56	5.50	49.07
21		3	Birim South	2.67	1.92	138.87	5.50	48.48
22		4	Akuapim North	2.55	1.92	133.05	5.50	46.45
23		5	Afram Plains	2.52	1.92	131.32	5.50	45.84
24		6	Kwaebibirem	2.45	1.92	127.72	5.50	44.58
25		7	Atiwa	2.44	1.92	126.84	5.50	44.28
26		8	Suhum Kraboa Coaltar	2.41	1.92	125.72	5.50	43.89
27		9	Akuapim South	2.37	1.92	123.54	5.50	43.13
28		10	New Juaben	2.35	1.92	122.30	5.50	42.69
29		11	East Akim	2.31	1.92	120.26	5.50	41.98
30		12	Kwahu West	2.31	1.92	120.08	5.50	41.92
31		14	Kwahu East	2.26	1.92	117.52	5.50	41.03
32		14	Kwahu South	2.26	1.92	117.52	5.50	41.03
33		15	Upper Manya Krobo	2.17	1.92	112.93	5.50	39.42
34		16	Lower Manya Krobo	2.15	1.92	112.06	5.50	39.12
35		17	Akyemansa	2.14	1.92	111.32	5.50	38.86

	REGION	No.	DISTRICT	DIST AVG (A)	NAV (MT/HA)(B)	C = (A) AS % OF (B)	ACH_Y (D) (MT/HA)	E=(A) AS % OF (D)
36		18	Birim North	2.07	1.92	107.59	5.50	37.56
37		19	Yilo Krobo	1.99	1.92	103.86	5.50	36.26
38		20	Fanteakwa	1.94	1.92	101.12	5.50	35.30
39	UPPER WEST	1	Sissala East	3.11	1.92	161.79	5.50	56.48
40		2	Sissala West	2.63	1.92	137.19	5.50	47.89
41	VOLTA	1	Jasikan	2.34	1.92	121.77	5.50	42.51
42		2	Biakoye	2.33	1.92	121.60	5.50	42.45
43		3	Kadjebi	2.32	1.92	120.90	5.50	42.21
44		4	Hohoe Municipal	2.30	1.92	119.60	5.50	41.75
45		5	Ketu North	2.11	1.92	109.76	5.50	38.32
46	WESTERN	1	Bia	2.27	1.92	118.39	5.50	41.33

B) Districts with Maize Yield Performances Below (or Equal to) National Average (Mt/Ha)

	REGION	No.	DISTRICT	DIST AVG (A)	NAV (MT/HA)(B)	C = (A) AS % OF (B)	ACH_Y (D) (MT/HA)	E=(A) AS % OF (D)
1	ASHANTI	1	Atwima Nwabiagya	1.57	1.92	81.72	5.50	28.53
2		2	Atwima Mponua	1.54	1.92	79.98	5.50	27.92
3		3	Sekyere Central	1.46	1.92	76.27	5.50	26.62
4		4	Afigya Kwabre	1.43	1.92	74.53	5.50	26.02
5		5	Asante Akim North	1.43	1.92	74.53	5.50	26.02
6		6	Ejura Sekyedumase	1.43	1.92	74.53	5.50	26.02
7		7	Offinso	1.43	1.92	74.53	5.50	26.02
8		8	Sekyere Afram Plains	1.40	1.92	72.80	5.50	25.41
9		9	Sekyere South	1.36	1.92	70.82	5.50	24.72
10		10	K. M. A.	1.33	1.92	69.08	5.50	24.12
11		11	Mampong Municipal (Sekyere West)	1.33	1.92	69.08	5.50	24.12
12		12	Offinso North	1.33	1.92	69.08	5.50	24.12
13		13	Amansie Central	1.29	1.92	67.35	5.50	23.51
14		14	Bosumtwe	1.29	1.92	67.35	5.50	23.51
15		15	Adansi South (East)	1.22	1.92	63.64	5.50	22.22
16		16	Adansi North	1.22	1.92	63.64	5.50	22.22
17		17	Ahafo Ano North	1.22	1.92	63.64	5.50	22.22
18		18	Ahafo Ano South	1.22	1.92	63.64	5.50	22.22
19		19	Asante Akim South	1.22	1.92	63.64	5.50	22.22
20		20	Atwima Kwanwoma	1.22	1.92	63.64	5.50	22.22
21		21	Bosome Freho	1.22	1.92	63.64	5.50	22.22
22		22	Ejusu Juaben	1.22	1.92	63.64	5.50	22.22
23		23	Kwabre East	1.22	1.92	63.64	5.50	22.22
24		24	Obuasi Municipal (Adansi West)	1.22	1.92	63.64	5.50	22.22
25	BRONG AHAFO	1	Tain	1.90	1.92	98.82	5.50	34.50
26		2	Kintampo South	1.86	1.92	96.98	5.50	33.86
27		3	Tano South	1.85	1.92	96.56	5.50	33.71
28		4	Jaman South	1.84	1.92	96.04	5.50	33.53
29		5	Asutifi	1.84	1.92	95.70	5.50	33.41
30		6	Nkoranza South	1.83	1.92	95.46	5.50	33.32
31		7	Tano North	1.82	1.92	94.69	5.50	33.06
32		8	Dormaa East	1.81	1.92	94.30	5.50	32.92
33		9	Sunyani West	1.80	1.92	93.98	5.50	32.81
34		10	Dormaa Municipal	1.79	1.92	93.30	5.50	32.57
35		11	Nkoranza North	1.78	1.92	92.60	5.50	32.33
36		12	Asunafo North	1.78	1.92	92.45	5.50	32.27
37		13	Sene	1.77	1.92	92.00	5.50	32.12

	REGION	No.	DISTRICT	DIST AVG (A)	NAV (MT/HA)(B)	C = (A) AS % OF (B)	ACH_Y (D) (MT/HA)	E=(A) AS % OF (D)
38		14	Jaman North	1.76	1.92	91.41	5.50	31.91
39		15	Sunyani Municipal	1.75	1.92	91.02	5.50	31.78
40		16	Asunafo South	1.74	1.92	90.51	5.50	31.59
41		17	Pru	1.71	1.92	88.87	5.50	31.02
42	CENTRAL	1	Awutu-Senya	1.91	1.92	99.30	5.50	34.66
43		2	Agona East	1.82	1.92	94.67	5.50	33.05
44		3	Agona West (Swedru)	1.79	1.92	93.34	5.50	32.58
45		4	Cape Coast	1.58	1.92	82.41	5.50	28.77
46		5	Ajumako-Essiam-Enyana	1.53	1.92	79.69	5.50	27.82
47		6	Komenda-Edina-Eguafo-Abirem	1.52	1.92	79.23	5.50	27.66
48		7	Assin North	0.87	1.92	45.57	5.50	15.91
49	EASTERN	1	Asuogyaman	1.92	1.92	100.00	5.50	34.91
50	GREATER ACCRA	1	A.M.A	1.48	1.92	77.24	5.50	26.97
51		2	Ga East	1.44	1.92	74.88	5.50	26.14
52		3	Ga South	1.30	1.92	67.68	5.50	23.62
53		4	Dangbe West	1.27	1.92	66.07	5.50	23.06
54		5	Tema	1.23	1.92	63.94	5.50	22.32
55		6	Ledzokuku-Krowor	1.11	1.92	57.97	5.50	20.24
56		7	Ashaiman	1.11	1.92	57.62	5.50	20.11
57		8	Ga West	1.05	1.92	54.67	5.50	19.09
58		9	Adenta-Madina	0.67	1.92	35.07	5.50	12.24
59		10	Dangme East	0.48	1.92	24.76	5.50	8.64
60	NORTHERN	1	Sawla/Tuna/Kalba	1.92	1.92	100.00	5.50	34.91
61		2	West Mamprusi	1.82	1.92	95.01	5.50	33.17
62		3	Tolon/Kumbungu	1.76	1.92	91.84	5.50	32.06
63		4	Kpandai	1.72	1.92	89.57	5.50	31.27
64		5	Yendi	1.67	1.92	86.78	5.50	30.29
65		6	Zabzugu/Tatale	1.63	1.92	84.93	5.50	29.65
66		7	Nanumba North	1.62	1.92	84.22	5.50	29.40
67		8	Saboba	1.60	1.92	83.31	5.50	29.08
68		9	Nanumba South	1.60	1.92	83.09	5.50	29.01
69		10	Gushiegu	1.50	1.92	77.91	5.50	27.20
70		11	Central Gonja	1.49	1.92	77.41	5.50	27.02
71		12	Chereponi	1.48	1.92	77.20	5.50	26.95
72		13	Karaga	1.48	1.92	77.12	5.50	26.92
73		14	Savelugu/Nanton	1.46	1.92	76.01	5.50	26.54
74		15	East Gonja	1.44	1.92	74.98	5.50	26.18
75		16	Bole	1.42	1.92	74.05	5.50	25.85
76		17	West Gonja	1.41	1.92	73.26	5.50	25.57
77		18	Bunkpurugu/Yunyoo	1.37	1.92	71.10	5.50	24.82

	REGION	No.	DISTRICT	DIST AVG (A)	NAV (MT/HA)(B)	C = (A) AS % OF (B)	ACH_Y (D) (MT/HA)	E=(A) AS % OF (D)
78		19	Tamale Metro	1.34	1.92	69.85	5.50	24.38
79		20	East Mamprusi	1.18	1.92	61.35	5.50	21.42
80	UPPER EAST	1	BOLGA	1.65	1.92	86.11	5.50	30.06
81		2	Talensi Nabdam	1.48	1.92	76.87	5.50	26.84
82		4	Bawku West	1.48	1.92	76.84	5.50	26.82
83		4	Garu Tempane	1.48	1.92	76.84	5.50	26.82
84		5	Bongo	1.42	1.92	74.04	5.50	25.85
85		6	Builsa	1.38	1.92	71.63	5.50	25.01
86		7	Bawku Municipal	1.35	1.92	70.23	5.50	24.52
87		8	KASSENA NANKANA WEST	1.08	1.92	6.26	5.50	19.64
88		9	KASSENA NANKANA EAST	1.07	1.92	55.91	5.50	19.52
89	UPPER WEST	1	Jirapa	1.78	1.92	92.59	5.50	32.32
90		2	Wa Municipal	1.52	1.92	79.33	5.50	27.69
91		3	Nadowli	1.33	1.92	69.17	5.50	24.15
92		4	Lawra	1.21	1.92	62.81	5.50	21.93
93		5	Wa East	1.18	1.92	61.33	5.50	21.41
94		6	Wa West	1.08	1.92	56.15	5.50	19.60
95		7	Lambussie-Karni	0.84	1.92	43.70	5.50	15.26
96	VOLTA	1	Akatsi	1.89	1.92	98.39	5.50	34.35
97		2	Adaklu Anyigbe	1.87	1.92	97.63	5.50	34.08
98		3	South Dayi	1.69	1.92	87.81	5.50	30.65
99		4	Kpando Municipal (North Dayi)	1.56	1.92	81.35	5.50	28.40
100		5	Ho Municipal	1.55	1.92	80.57	5.50	28.13
101		6	North Tongu	1.51	1.92	78.45	5.50	27.39
102		7	South Tongu	1.46	1.92	76.04	5.50	26.55
103		8	Krachi East	1.39	1.92	72.40	5.50	25.27
104		9	Ketu South	1.38	1.92	71.92	5.50	25.11
105		10	Krachi West	1.33	1.92	69.33	5.50	24.20
106		11	Nkwanta South	1.31	1.92	68.30	5.50	23.84
107		12	Nkwanta North	1.25	1.92	65.24	5.50	22.78
108		13	Keta Municipal	1.00	1.92	52.06	5.50	18.17
109	WESTERN	1	Juabeso	1.35	1.92	70.22	5.50	24.51
110		2	Aowin -Suaman	1.29	1.92	66.94	5.50	23.37
111		3	Sefwi-Wiawso	1.28	1.92	66.77	5.50	23.31
112		4	Akontombra	1.28	1.92	66.60	5.50	23.25
113		5	Bibiani-Anhwiaso-Bekwai	1.27	1.92	66.08	5.50	23.07
114		6	Amenfi West (Wassa Amenfi)	1.26	1.92	65.73	5.50	22.95
115		7	Mporhor Wassa East	1.26	1.92	65.71	5.50	22.94
116		8	Amenfi East	1.26	1.92	65.38	5.50	22.82

	REGION	No.	DISTRICT	DIST AVG (A)	NAV (MT/HA)(B)	C = (A) AS % OF (B)	ACH_Y (D) (MT/HA)	E=(A) AS % OF (D)
117		9	Nzema East	1.23	1.92	64.17	5.50	22.40
118		10	Jomoro	1.22	1.92	63.65	5.50	22.22
119		11	Ellembele	1.21	1.92	62.95	5.50	21.98
120		12	Prestea Huni-Valley	1.20	1.92	62.60	5.50	21.85
121		13	Tarkwa Nsuaem	1.20	1.92	62.43	5.50	21.79
122		14	Ahanta West	1.13	1.92	58.81	5.50	20.53
123		15	Shama	1.06	1.92	55.19	5.50	19.27
124		16	Sekondi-Takoradi Municipal (STMA)	1.06	1.92	55.19	5.50	19.27

APPENDIX 23: Yield Performance Summary (Maize)

NAV = National Average
ACH_Y = Achievable (potential) Yields

	Number	Share (%)
Total Number of Districts	**170**	**100**
Districts with yields above national average	46	27
Districts with yields equal to national average	2	1
Districts with yields below national average	122	72

Notes
From the table above, the average yields of maize (3-yr avg.) for 27 percent of districts in Ghana are above national average. The district with the highest yield performance is West Akim, in the Eastern Region, accounting for 202.09 percent of national average and 65.77 percent of potential yields.
72 per cent of districts, on the other hand, have yields which are below national average. Dangme East in the Greater Accra Region recorded the lowest average yield performance accounting for 24.76 percent of national average and 8.64 percent of potential yields.
Maize yields for 1 percent of districts equalled national average.

APPENDIX 24: Comparison of District Average Yield (3-Yr.) Levels of Rice with National Average and Achievable (Potential) Yields

A) Districts with Rice Yield Performances above National Average (Mt/Ha)

	REGION	No.	DISTRICT	DIST AVG (A)	NAV (MT/HA)(B)	C = (A) AS % OF (B)	ACH_Y (D) (MT/HA)	E=(A) AS % OF (D)
1	ASHANTI	1	Ahafo Ano South	3.40	2.75	123.52	6.00	56.61
2		2	Ahafo Ano North	3.36	2.75	122.31	6.00	56.06
3		3	Ejusu Juaben	3.27	2.75	118.88	6.00	54.49
4		4	Atwima Nwabiagya	3.05	2.75	110.80	6.00	50.78
5		5	Asante Akim North	2.99	2.75	108.58	6.00	49.77
6		6	K. M. A.	2.89	2.75	105.15	6.00	48.19
7		7	Offinso North	2.83	2.75	102.93	6.00	47.18
8	CENTRAL	1	Gomoa East	5.09	2.75	185.10	6.00	84.84
9		2	Assin South	3.09	2.75	112.28	6.00	51.46
10	EASTERN	1	Akyemansa	3.90	2.75	141.76	6.00	64.97
11		2	Birim North	3.88	2.75	141.15	6.00	64.69
12		3	Birim Central	3.40	2.75	123.71	6.00	56.70
13		5	Birim South	3.39	2.75	123.10	6.00	56.42
14		5	Kwahu West	3.39	2.75	123.10	6.00	56.42
15		6	Kwaebibirem	3.37	2.75	122.50	6.00	56.15
16		7	Lower Manya Krobo	3.36	2.75	122.14	6.00	55.98
17		8	Upper Manya Krobo	3.28	2.75	119.37	6.00	54.71
18		10	Atiwa	2.87	2.75	104.45	6.00	47.87
19		10	East Akim	2.87	2.75	104.45	6.00	47.87
20		11	West Akim	2.84	2.75	103.24	6.00	47.32
21	GREATER ACCRA	1	Dangbe West	6.74	2.75	244.98	6.00	112.28
22		2	Ga West	5.45	2.75	198.27	6.00	90.87
23		3	Ashaiman	5.43	2.75	197.51	6.00	90.53
24		4	Ga East	4.96	2.75	180.22	6.00	82.60
25	UPPER EAST	1	Bawku Municipal	3.56	2.75	129.34	6.00	59.28
26		2	Kassena Nankana East	3.24	2.75	117.88	6.00	54.03
27		3	Bawku West	2.84	2.75	103.25	6.00	47.32
28		4	Kassena Nankana West	2.78	2.75	100.93	6.00	46.26
29	VOLTA	1	Ketu North	6.10	2.75	221.89	6.00	101.70
30		2	Jasikan	5.50	2.75	200.15	6.00	91.74
31		3	Biakoye	4.34	2.75	157.70	6.00	72.28
32		4	South Tongu	4.24	2.75	154.23	6.00	70.69
33		5	Kadjebi	4.01	2.75	145.71	6.00	66.78
34		6	Nkwanta South	3.95	2.75	143.46	6.00	65.75
35		7	Nkwanta North	3.88	2.75	141.07	6.00	64.66

	REGION	No.	DISTRICT	DIST AVG (A)	NAV (MT/HA)(B)	C = (A) AS % OF (B)	ACH_Y (D) (MT/HA)	E=(A) AS % OF (D)
36		8	Hohoe Municipal	3.80	2.75	138.20	6.00	63.34
37		9	Krachi East	3.64	2.75	132.22	6.00	60.60
38		10	Kpando Municipal (North Dayi)	3.44	2.75	125.13	6.00	57.35
39		11	Adaklu Anyigbe	3.26	2.75	118.38	6.00	54.26
40		12	Ho Municipal	3.24	2.75	117.96	6.00	54.07
41		13	North Tongu	3.00	2.75	109.09	6.00	50.00
42		14	Krachi West	2.92	2.75	106.00	6.00	48.58

B) Districts with Rice Yield Performances below National Average (Mt/Ha)

	REGION	No.	DISTRICT	DIST AVG (A)	NAV (MT/HA)(B)	C = (A) AS % OF (B)	ACH_Y (D) (MT/HA)	E=(A) AS % OF (D)
1	ASHANTI	1	Ejura Sekyedumase	2.74	2.75	99.50	6.00	45.61
2		2	Offinso	2.74	2.75	99.50	6.00	45.61
3		3	Sekyere Central	2.70	2.75	98.29	6.00	45.05
4		4	Bosome Freho	2.64	2.75	96.07	6.00	44.03
5		5	Atwima Mponua	2.61	2.75	94.86	6.00	43.48
6		6	Sekyere Afram Plains	2.61	2.75	94.86	6.00	43.48
7		7	Bekwai municipal (Amansie East)	2.61	2.75	94.86	6.00	43.48
8		8	Adansi North	2.61	2.75	94.86	6.00	43.48
9		9	Mampong Municipal (Sekyere West)	2.51	2.75	91.43	6.00	41.90
10		10	Obuasi Municipal (Adansi West)	2.51	2.75	91.43	6.00	41.90
11		11	Adansi South (East)	2.51	2.75	91.43	6.00	41.90
12		12	Sekyere South	2.51	2.75	91.43	6.00	41.90
13		13	Afigya Kwabre	2.45	2.75	89.21	6.00	40.89
14		14	Atwima Kwanwoma	2.45	2.75	89.21	6.00	40.89
15		15	Bosumtwe	2.45	2.75	89.21	6.00	40.89
16		16	Amansie Central	2.42	2.75	88.00	6.00	40.33
17		17	Kwabre East	2.42	2.75	88.00	6.00	40.33
18		18	Asante Akim South	2.26	2.75	82.35	6.00	37.74
19		19	Sekyere East	2.23	2.75	81.13	6.00	37.19
20		20	Amansie West	2.08	2.75	75.48	6.00	34.60
21	BRONG AHAFO	1	Tano North	2.29	2.75	83.14	6.00	38.11
22		2	Tano South	2.19	2.75	79.58	6.00	36.47

	REGION	No.	DISTRICT	DIST AVG (A)	NAV (MT/HA)(B)	C = (A) AS % OF (B)	ACH_Y (D) (MT/HA)	E=(A) AS % OF (D)
23		3	Atebubu -Amantin	1.90	2.75	69.26	6.00	31.75
24		4	Kintampo North	1.84	2.75	67.02	6.00	30.72
25		5	Asutifi	1.79	2.75	65.21	6.00	29.89
26		6	Pru	1.72	2.75	62.57	6.00	28.68
27		7	Sene	1.70	2.75	61.73	6.00	28.29
28		8	Asunafo South	1.34	2.75	48.67	6.00	22.31
29		9	Asunafo North	1.33	2.75	48.48	6.00	22.22
30		10	Dormaa Municipal	1.23	2.75	44.89	6.00	20.58
31	CENTRAL	1	Abura-Asebu-Kwamankese	1.70	2.75	61.95	6.00	28.39
32		2	Agona East	1.58	2.75	57.29	6.00	26.26
33		3	Upper Denkyira West	1.27	2.75	46.18	6.00	21.17
34		4	Assin North	1.15	2.75	41.76	6.00	19.14
35		5	Upper Denkyira East	1.14	2.75	41.38	6.00	18.96
36		6	Asikuma-Odoben-Brakwa	1.12	2.75	40.55	6.00	18.58
37		7	Twifo-Herman/L. Denkyira	1.05	2.75	38.18	6.00	17.50
38	EASTERN	1	Afram Plains	2.67	2.75	96.99	6.00	44.45
39	NORTHERN	1	Savelugu/Nanton	2.48	2.75	90.25	6.00	41.36
40		2	West Mamprusi	2.44	2.75	88.87	6.00	40.73
41		3	Tolon/Kumbungu	2.27	2.75	82.63	6.00	37.87
42		4	Tamale Metro	2.24	2.75	81.58	6.00	37.39
43		5	Kpandai	2.06	2.75	74.96	6.00	34.36
44		6	Karaga	2.06	2.75	74.87	6.00	34.32
45		7	Sawla/Tuna/Kalba	2.03	2.75	73.89	6.00	33.86
46		8	Saboba	2.00	2.75	72.83	6.00	33.38
47		9	Chereponi	1.98	2.75	71.90	6.00	32.96
48		10	Yendi	1.97	2.75	71.77	6.00	32.89
49		11	East Gonja	1.93	2.75	70.27	6.00	32.21
50		12	Gushiegu	1.86	2.75	67.80	6.00	31.08
51		13	West Gonja	1.79	2.75	65.09	6.00	29.83
52		14	Central Gonja	1.79	2.75	64.96	6.00	29.77
53		15	Nanumba South	1.74	2.75	63.37	6.00	29.05
54		16	Zabzugu/Tatale	1.72	2.75	62.73	6.00	28.75
55		17	East Mamprusi	1.61	2.75	58.72	6.00	26.92
56		18	Bole	1.57	2.75	57.04	6.00	26.14
57		19	Nanumba North	1.44	2.75	52.51	6.00	24.07
58		20	Bunkpurugu/Yunyoo	1.32	2.75	48.02	6.00	22.01
59	UPPER EAST	1	Bongo	2.67	2.75	97.14	6.00	44.52
60		2	Bolga Municipal	2.54	2.75	92.45	6.00	42.37
61		3	Garu Tempane	2.34	2.75	85.11	6.00	39.01
62		4	Talensi Nabdam	2.18	2.75	79.36	6.00	36.37
63		5	Builsa	2.18	2.75	79.10	6.00	36.25

	REGION	No.	DISTRICT	DIST AVG (A)	NAV (MT/HA)(B)	C = (A) AS % OF (B)	ACH_Y (D) (MT/HA)	E=(A) AS % OF (D)
	UPPER		Sissala East	2.58	2.75	93.92	6.00	43.05
64	WEST	1						
65		2	Wa West	1.74	2.75	63.09	6.00	28.92
66		3	Wa East	1.61	2.75	58.43	6.00	26.78
67		4	Wa Municipal	1.35	2.75	49.22	6.00	22.56
68		5	Lawra	1.23	2.75	44.71	6.00	20.49
69		6	Sissala West	1.20	2.75	43.70	6.00	20.03
70		7	Nadowli	1.11	2.75	40.34	6.00	18.49
71		8	Jirapa	1.04	2.75	37.97	6.00	17.40
72		9	Lambussie-Karni	0.86	2.75	31.35	6.00	14.37
73	WESTERN	1	Juabeso	1.54	2.75	55.95	6.00	25.65
74		2	Sefwi-Wiawso	1.31	2.75	47.81	6.00	21.91
75		3	Aowin -Suaman	1.28	2.75	46.71	6.00	21.41
76		4	Bia	1.24	2.75	45.01	6.00	20.63
77		5	Akontombra	1.21	2.75	43.91	6.00	20.13
78		6	Bibiani-Anhwiaso-Bekwai	1.18	2.75	43.07	6.00	19.74
79		7	Nzema East	1.18	2.75	42.94	6.00	19.68
80		8	Jomoro	1.17	2.75	42.70	6.00	19.57
81		9	Prestea Huni-Valley	1.17	2.75	42.57	6.00	19.51
82		10	Amenfi East	1.16	2.75	42.09	6.00	19.29
83		11	Mporhor Wassa East	1.15	2.75	41.84	6.00	19.18
84		12	Tarkwa Nsuaem	1.13	2.75	40.99	6.00	18.79
85		13	Ellembele	1.11	2.75	40.39	6.00	18.51
86		14	Shama	1.10	2.75	40.14	6.00	18.40
87		15	Amenfi West (Wassa Amenfi)	1.06	2.75	38.69	6.00	17.73
88		16	Sekondi-Takoradi Municipal (STMA)	0.92	2.75	33.45	6.00	15.33

APPENDIX 25: Yield Performance Summary (Rice)

NAV = National Average
ACH_Y = Achievable (potential) Yields

	Number	Share (%)
Total Number of Districts	**130**	**100**
Districts with rice yields above national average	42	32
Districts with rice yields below national average	88	68

Notes
From the table above (Appendix 25), the average yield of rice (3-yr avg.) for 42 percent of districts in Ghana is above national average. Dangme West in the Greater Accra Region recorded the highest average yield performance accounting for 244.98 percent of national average and 112.28 percent of potential yields.
68 per cent of districts, on the other hand, reported yields below national average. The district with the lowest yield performance for the period was Sekondi-Takoradi Municipal (STMA), in the Western Region, accounting for only 33.45 percent of national average and 15.33 percent of potential yields.

APPENDIX 26: Basic production Statistics for the Top 5 Producers of some Selected Crops

TABLE 26.1: Maize Production (Mt) Statistics

Top 5 Regions	3-Yr Average	Share of Sub-Tot	Share of Overall Tot
BRONG AHAFO	438,681.72	31.52%	25.19%
EASTERN	400,704.25	28.79%	23.01%
ASHANTI	208,274.26	14.96%	11.96%
CENTRAL	173,538.22	12.47%	9.96%
NORTHERN	170,683.77	12.26%	9.80%
SUB TOTAL	**1,391,882.22**		**79.92%**
TOTAL AVG PROD (ALL REGIONS)	**1,741,566.38**		

NOTES ON MAIZE

Based on 3-year average, the top 5 maize producing regions account for 79.92 percent of total maize produced in Ghana is presented in Table 26. Brong Ahafo region is the largest maize producer in Ghana accounting for a little over 25.19 percent of overall total (national average) and 31.52 percent of total production for the top 5 regions. Eastern region follows closely with a share of 23.01 percent of national average. See Table 26.1 for further details.

Table 26.2: Rice Production (Mt) Statistics

Top 5 Regions	3-Yr Average	Share of Sub-Tot	Share of Overall Tot
VOLTA	184,279.32	34.48%	30.46%
NORTHERN	168,407.25	31.51%	27.83%
UPPER EAST	114,702.19	21.46%	18.96%
ASHANTI	34,722.00	6.50%	5.74%
EASTERN	32,337.69	6.05%	5.34%
SUB TOTAL	**534,448.45**		**88.33%**
TOTAL AVG PROD (ALL REGIONS)	**605,058.00**		

NOTES ON RICE

For the first time, the Volta Region has edged out the Northern Region to become the leading rice (paddy) producer in Ghana based on 3-yr average, accounting for about 30 percent of total production in the country. Among the top 5 rice producing regions however, its share is slightly higher – a little over 34 percent (34.48%). The Northern Region (until recently, the largest producer) with a current share of 27.83 percent of overall total now occupies the second position as far as the average volume/weight of rice produced, for the past three years, is concerned (Table 26.2).

Table 26.3 Sorghum Production (Mt) Statistics

Top 5 Regions	3-Yr Average	Share of Sub-Tot	Share of Overall Tot
NORTHERN	104,011.76	41.93%	41.93%
UPPER WEST	87,125.93	35.13%	35.13%
UPPER EAST	50,708.89	20.44%	20.44%
VOLTA	5,351.96	2.16%	2.16%
BRONG AHAFO	846.80	0.34%	0.34%
SUB TOTAL	**248,045.34**		**100.00%**
TOTAL AVG PROD (ALL REGIONS)	**248,045.34**		

NOTES ON SORGHUM

Sorghum production is concentrated mainly in the three Northern Regions of Ghana and some parts of Brong Ahafo (mainly the transitional zone) and the Volta Region. The three northern regions together account for over 97 percent of total production with the Northern region being the largest producer with a share of about 42 percent (Table 26.3).

Table 26.4: Cassava Production (Mt) Statistics

Top 5 Regions	3-Yr Average	Share of Sub-Tot	Share of Overall Tot
EASTERN	4,466,906.01	31.56%	26.95%
BRONG AHAFO	3,747,940.65	26.48%	22.61%
ASHANTI	2,613,347.96	18.46%	15.77%
CENTRAL	1,898,457.76	13.41%	11.45%
NORTHERN	1,427,541.19	10.09%	8.61%
SUB TOTAL	**14,154,193.57**		**85.39%**
TOTAL AVG PROD (ALL REGIONS)	**16,575,456.64**		

NOTES ON CASSAVA

Eastern Region is the leading producer of cassava in Ghana with a share of 26.95 percent of overall total, based on a 3-year average production. Following closely is the Brong Ahafo Region, contributing 22.61 percent of national total. The 5 top producing regions together, account for 85.39 percent of total cassava production in the country. (Table 26.4)

Table 26.5: Yam Production (Mt) Statistics

Top 5 Regions	3-Yr Average	Share of Sub-Tot	Share of Overall Tot
BRONG AHAFO	2,397,838.46	36.53%	33.47%
NORTHERN	2,261,468.72	34.45%	31.57%
EASTERN	811,492.73	12.36%	11.33%
UPPER WEST	573,107.22	8.73%	8.00%
ASHANTI	520,516.64	7.93%	7.27%
SUB TOTAL	**6,564,423.77**		**91.64%**
TOTAL AVG PROD (ALL REGIONS)	**7,163,198.58**		

NOTES ON YAM

The top 5 yam producing regions in Ghana together share between them over 90 percent (91.64%) of national total. The leading producer, Brong Ahafo Region, accounts for 36.53 percent of this (i.e. the top 5). Against the national average, however, the region's (Brong Ahafo) share is 33.47 percent. The Northern Region follows, in second place, with a share of almost 32 percent of overall total (Table 26.5).

Table 26.6: Cowpea Production (Mt) Statistics

Top 5 Regions	3-Yr. Average	Share of Sub-Tot	Share of Overall Tot
NORTHERN	96,398.43	49.38%	47.82%
UPPER WEST	73,951.80	37.88%	36.69%
UPPER EAST	12,224.61	6.26%	6.06%
BRONG AHAFO	7,681.87	3.93%	3.81%
ASHANTI	4,978.32	2.55%	2.47%
SUB TOTAL	**195,235.02**		**96.85%**
TOTAL AVG PROD (ALL REGIONS)	**201,574.57**		

NOTES ON COWPEA

The 3 Northern Regions are the dominant cowpea producing regions, with a share of about 91 percent of total volume of production in Ghana. The Northern Region alone contributes about 48 percent of total production in the country, followed by Upper West Region, with a 36.69 percent share of national total. Of the top 5, regions, Ashanti is the least producer accounting for just over 2 percent (2.55%) of national total. The top 5 regions together contribute approximately 97 percent of overall cowpea production in Ghana (Table 26.6**).**

APPENDIX 27: POPULATION IN AGRICULTURE

Table 27.0 Households and Members Engaged in Agricultural Activities by Region and District

		Households in dwelling units				*Household members engaged in Agriculture*		
	Region/District	Total	Agriculture	Non-agriculture		Total	Male	Female
	Ghana	5,467,054	2,503,006	2,964,048		5,276,514	2,777,719	2,498,795
REGION								
01	Western	553,634	275,975	277,659		548,104	289,946	258,158
02	Central	526,763	270,854	255,909		513,448	248,632	264,816
03	Greater Accra	1,036,370	68,715	967,655		151,896	81,697	70,199
04	Volta	495,600	291,224	204,376		599,276	304,147	295,129
05	Eastern	632,045	374,257	257,788		724,001	387,644	336,357
06	Ashanti	1,126,205	412,055	714,150		767,942	393,297	374,645
07	Brong Ahafo	490,515	336,097	154,418		654,079	344,752	309,327
08	Northern	318,119	240,238	77,881		706,768	408,978	297,790
09	Upper East	177,629	148,660	28,969		392,019	198,053	193,966
10	Upper West	110,174	84,931	25,243		218,981	120,573	98,408
WESTERN REGION								
0001	Jomoro	34,502	15,409	19,093		31,023	15,445	15,578
0002	Ellembelle	18,682	8,364	10,318		15,670	7,665	8,005
0003	Nzema East	13,509	7,393	6,116		15,795	8,025	7,770
0004	Ahanta West	26,095	12,325	13,770		24,070	10,906	13,164
0005	Sekondi Takoradi Metropolis	142,560	13,655	128,905		26,771	14,190	12,581
0006	Shama	19,291	5,601	13,690		10,863	5,122	5,741
0007	Wassa East	18,624	14,662	3,962		30,035	15,326	14,709
0008	Tarkwa Nsuaem Municipal	21,713	8,469	13,244		17,438	9,653	7,785
0009	Prestea/Huni Valley	38,295	19,904	18,391		38,689	21,280	17,409
0010	Wassa Amenfi East	18,620	14,632	3,988		28,418	14,803	13,615
0011	Wassa Amenfi West	20,262	14,515	5,747		29,478	16,178	13,300
0012	Aowin	26,520	20,486	6,034		41,561	23,944	17,617
0013	Sefwi Akontombra	17,592	15,228	2,364		29,418	16,697	12,721
0014	Sefwi Wiawso	30,074	22,297	7,777		44,177	23,031	21,146
0015	Sefwi Bibiani-Ahwiaso Bekwai	27,961	20,938	7,023		41,894	20,751	21,143
0016	Juabeso	12,866	9,596	3,270		18,602	10,457	8,145
0017	Bia west	19,809	15,482	4,327		29,494	16,341	13,153
0018	Mpohor	11,572	7,398	4,174		13,797	7,070	6,727
0019	Wassa Amenfi Central	14,207	12,118	2,089		25,556	13,489	12,067
0020	Suaman	4,138	3,172	966		6,939	3,901	3,038
0021	Bodi	10,773	9,576	1,197		19,449	10,636	8,813
0022	Bia East	5,969	4,755	1,214		8,967	5,036	3,931

		Households in dwelling units				*Household members engaged in Agriculture*		
CENTRAL REGION								
0001	Komenda-Edina-Eguafo-Abirem Municipal	35,402	17,346	18,056		35,008	16,282	18,726
0002	Cape Coast Metropolis	40,386	4,141	36,245		8,518	4,446	4,072
0003	Abura-Asebu-Kwamankese	28,704	17,419	11,285		30,924	14,321	16,603
0004	Mfantsiman	35,673	10,568	25,105		20,145	9,273	10,872
0005	Ajumako-Enyan-Essiam	35,106	27,073	8,033		49,456	22,545	26,911
0006	Gomoa West	32,715	16,224	16,491		31,314	13,039	18,275
0007	Effutu Municipal	17,121	2,166	14,955		4,586	2,149	2,437
0008	Gomoa East	52,898	17,834	35,064		33,797	15,755	18,042
0009	Ewutu Senya	20,955	11,278	9,677		22,010	10,676	11,334
0010	Agona East	21,021	14,624	6,397		25,677	13,178	12,499
0011	Agona West Municipal	29,478	14,573	14,905		27,451	13,841	13,610
0012	Asikuma-Odoben Brakwa	26,997	22,403	4,594		40,176	19,685	20,491
0013	Assin South	23,200	18,822	4,378		36,311	18,066	18,245
0014	Assin North Municipal	36,317	27,009	9,308		51,025	26,835	24,190
0015	Twifo Ati Morkwa	12,959	9,309	3,650		18,290	9,432	8,858
0016	Upper Denkyira East Municipal	14,200	8,480	5,720		17,222	8,977	8,245
0017	Upper Denkyira West	13,436	11,140	2,296		22,686	11,400	11,286
0018	Twifo Heman Lower Denkyira	12,242	9,988	2,254		18,490	9,349	9,141
0019	Ekumfi	12,631	7,760	4,871		14,068	6,054	8,014
0020	Awutu Senya East Municipal	25,322	2,697	22,625		6,294	3,329	2,965
GREATER ACCRA REGION								
0001	Ga South Municipal	100,701	10,656	90,045		22,299	12,055	10,244
0002	Ga West Municipal	55,913	3,883	52,030		9,408	5,274	4,134
0003	Ga East Municipal	37,415	1,938	35,477		4,340	2,566	1,774
0004	Accra Metropolis	450,749	14,208	436,541		30,843	17,292	13,551
0005	Adenta Municipal	20,478	1,453	19,025		3,071	1,806	1,265
0006	Ledzokuku Krowor Municipal	60,859	1,987	58,872		4,763	2,573	2,190
0007	Ashaiman Municipal	49,936	1,912	48,024		4,353	2,528	1,825
0008	Tema Metropolis	70,797	2,549	68,248		5,763	3,274	2,489
0009	Shai Osudoku	11,862	4,946	6,916		10,569	5,671	4,898
0010	Ada East	15,631	6,888	8,743		14,290	7,265	7,025
0011	Ga Central Municipal	28,936	1,320	27,616		3,178	1,767	1,411
0012	La Dadekotopon Municipal	51,154	1,609	49,545		3,052	1,823	1,229
0013	La Nkwantanang-Madina Municipal	28,870	1,516	27,354		3,304	1,935	1,369
0014	Kpone Katamanso	26,800	2,228	24,572		5,544	2,721	2,823

		Households in dwelling units				*Household members engaged in Agriculture*		
0015	Ningo Prampram	14,627	4,933	9,694		12,224	5,777	6,447
0016	Ada West	11,642	6,689	4,953		14,895	7,370	7,525
VOLTA REGION								
0001	South Tongu	20,509	11,546	8,963		24,900	11,523	13,377
0002	Keta Municapal	37,705	12,961	24,744		25,033	12,260	12,773
0003	Ketu South	39,119	8,353	30,766		18,240	9,610	8,630
0004	Ketu North	26,437	16,304	10,133		27,781	13,761	14,020
0005	Akatsi South	25,758	17,166	8,592		31,180	13,798	17,382
0006	Central Tongu	12,996	10,187	2,809		25,148	11,539	13,609
0007	Agotime-Ziope	7,020	5,075	1,945		9,165	4,396	4,769
0008	Ho Municipal	49,826	17,636	32,190		30,824	15,785	15,039
0009	South Dayi	10,761	6,242	4,519		13,104	6,537	6,567
0010	Kpando Municipal	13,439	6,757	6,682		12,452	6,414	6,038
0011	Hohoe Municipal	43,329	24,863	18,466		49,329	25,584	23,745
0012	Biakoye	15,226	11,122	4,104		23,519	12,370	11,149
0013	Jasikan	14,034	9,933	4,101		19,488	10,324	9,164
0014	Kadjebi	13,303	10,581	2,722		23,558	13,197	10,361
0015	Krachi East	22,289	15,523	6,766		36,548	20,048	16,500
0016	Krachi West	9,491	6,342	3,149		13,598	7,692	5,906
0017	Nkwanta South	22,733	17,475	5,258		40,398	21,135	19,263
0018	Nkwanta North	9,989	8,512	1,477		22,236	11,802	10,434
0019	North Tongu	18,577	12,063	6,514		29,832	14,231	15,601
0020	Akatsi North	8,003	6,712	1,291		12,055	5,027	7,028
0021	Adaklu	6,089	4,977	1,112		12,692	6,508	6,184
0022	Ho West	23,875	17,559	6,316		31,376	15,624	15,752
0023	Afadzato South	22,529	16,400	6,129		31,218	16,297	14,921
0024	North Dayi	10,230	6,849	3,381		12,024	5,897	6,127
0025	Krachi Nchumuru	12,333	10,086	2,247		23,578	12,788	10,790
EASTERN REGION								
0001	Birim South	28,800	22,518	6,282		40,666	20,190	20,476
0002	Birim Municipal	36,353	20,331	16,022		36,973	18,928	18,045
0003	West Akim Municipal	26,752	15,238	11,514		28,983	16,115	12,868
0004	Suhum Municipal	22,315	12,895	9,420		23,981	13,620	10,361
0005	Nsawam Adoagyiri Municipal	21,232	6,657	14,575		14,049	7,785	6,264
0006	Akwapim North	33,322	15,703	17,619		32,235	16,976	15,259
0007	New Juaben Municipal	49,474	9,771	39,703		19,415	10,994	8,421
0008	Yilo Krobo Municipal	20,613	11,820	8,793		24,573	13,698	10,875
0009	Lower Manya krobo Municipal	22,150	7,197	14,953		14,884	8,245	6,639
0010	Asuogyaman	23,551	12,071	11,480		21,520	10,942	10,578
0011	Upper Manya Krobo	15,379	12,686	2,693		27,572	14,792	12,780
0012	Fanteakwa	24,026	18,019	6,007		40,305	21,298	19,007
0013	East Akim Municipal	42,092	23,798	18,294		40,871	22,889	17,982
0014	Kwaebibirem	27,650	19,578	8,072		34,647	18,501	16,146

		Households in dwelling units				*Household members engaged in Agriculture*		
0015	Akyemansa	21,361	18,626	2,735		35,324	17,562	17,762
0016	Birim North	18,511	13,771	4,740		24,125	13,102	11,023
0017	Atiwa	26,342	20,206	6,136		36,840	19,453	17,387
0018	Kwahu West Municipal	23,296	10,195	13,101		19,003	10,130	8,873
0019	Kwahu South	16,725	10,616	6,109		18,312	9,062	9,250
0020	Kwahu East	18,409	12,676	5,733		23,033	11,441	11,592
0021	Kwahu Afram Plains North	20,943	15,085	5,858		37,814	19,984	17,830
0022	Upper West Akim	20,053	15,014	5,039		28,926	16,033	12,893
0023	Akwapim South	9,287	4,475	4,812		9,191	4,973	4,218
0024	Ayensuano	18,098	14,622	3,476		27,530	15,203	12,327
0025	Denkyembuor	20,304	11,346	8,958		19,923	11,052	8,871
0026	Kwahu Afram Plains South	25,007	19,343	5,664		43,306	24,676	18,630
ASHANTI REGION								
0001	Atwima Mponua	26,149	22,237	3,912		38,321	21,591	16,730
0002	Amansie West	29,359	21,755	7,604		41,243	20,324	20,919
0003	Amansie Central	21,511	18,348	3,163		32,887	16,152	16,735
0004	Adansi South	25,626	21,208	4,418		39,916	21,237	18,679
0005	Obuasi Municipal	41,312	9,209	32,103		18,479	9,622	8,857
0006	Adansi North	23,863	17,696	6,167		33,350	17,060	16,290
0007	Bekwai Municipal	27,258	17,854	9,404		32,345	15,126	17,219
0008	Bosome Freho	12,923	10,541	2,382		20,427	9,828	10,599
0009	Asante Akim South	26,536	21,334	5,202		41,321	20,966	20,355
0010	Asante Akim Central Municipal	16,919	8,467	8,452		14,492	7,323	7,169
0011	Ejisu Juaben Municipal	33,078	15,549	17,529		28,786	13,624	15,162
0012	Bosumtwi	22,895	10,997	11,898		18,683	8,381	10,302
0013	Atwima Kwanwoma	20,734	7,972	12,762		13,927	6,709	7,218
0014	Kumasi Metropolis	440,283	37,456	402,827		73,243	39,575	33,668
0015	Atwima Nwabiagya	35,205	12,523	22,682		21,575	11,283	10,292
0016	Ahafo Ano South	26,930	21,993	4,937		41,331	22,142	19,189
0017	Ahafo Ano North	20,994	15,605	5,389		28,682	15,962	12,720
0018	Offinso Municipal	15,376	10,404	4,972		18,681	9,542	9,139
0019	Afigya Kwabre	30,066	11,108	18,958		21,295	10,626	10,669
0020	Kwabre East	27,122	5,153	21,969		8,096	3,824	4,272
0021	Sekyere South	19,445	13,092	6,353		23,730	10,835	12,895
0022	Mampong Municipal	19,203	11,698	7,505		21,227	10,979	10,248
0023	Sekyere East	13,668	6,686	6,982		12,275	5,921	6,354
0024	Sekyere Kumewu	14,185	11,598	2,587		20,358	9,279	11,079
0025	Sekyere Central	14,632	11,764	2,868		22,901	11,500	11,401
0026	Ejura Sekye Dumasi	16,402	11,431	4,971		23,259	13,259	10,000
0027	Offinso North	11,162	8,794	2,368		18,623	9,661	8,962
0028	Asokore Mampong Municipal	72,478	3,596	68,882		9,228	5,181	4,047

		Households in dwelling units				*Household members engaged in Agriculture*		
0029	Asante Akim North	15,480	11,259	4,221		19,327	9,938	9,389
0030	Sekyere Afram Plains North	5,411	4,728	683		9,934	5,847	4,087
BRONG AHAFO REGION								
0001	Asunafo South	20,241	17,128	3,113		32,679	17,821	14,858
0002	Asunafo North Municipal	27,232	19,548	7,684		35,268	19,228	16,040
0003	Asutifi North	12,138	8,024	4,114		14,329	7,799	6,530
0004	Dormaa Central Municipal	25,432	17,383	8,049		35,635	17,204	18,431
0005	Dormaa East	11,722	9,404	2,318		16,632	7,890	8,742
0006	Tano South	16,312	12,411	3,901		23,797	12,386	11,411
0007	Tano North	18,478	14,208	4,270		27,495	13,988	13,507
0008	Sunyani Municipal	28,431	9,752	18,679		18,979	10,332	8,647
0009	Sunyani West	19,716	11,903	7,813		22,459	11,213	11,246
0010	Berekum Municipal	31,129	17,834	13,295		32,351	14,204	18,147
0011	Jaman South	20,178	16,595	3,583		30,349	13,467	16,882
0012	Jaman North	16,198	13,230	2,968		24,799	11,844	12,955
0013	Tain	16,319	14,342	1,977		30,844	15,764	15,080
0014	Wenchi Municipal	19,138	12,485	6,653		26,081	13,999	12,082
0015	Techiman Municipal	34,137	15,781	18,356		28,284	15,726	12,558
0016	Nkoranza South	21,565	16,265	5,300		32,128	17,307	14,821
0017	Nkoranza North	13,882	12,063	1,819		25,174	13,307	11,867
0018	Atebubu Amantin	20,349	14,283	6,066		29,044	16,796	12,248
0019	Sene West	10,936	8,771	2,165		17,257	9,747	7,510
0020	Pru	22,579	13,943	8,636		27,913	16,213	11,700
0021	Kintampo South	15,522	13,704	1,818		30,058	17,126	12,932
0022	Kintampo North Municipal	19,330	11,632	7,698		24,251	13,970	10,281
0023	Asutifi South	10,848	7,793	3,055		14,740	7,859	6,881
0024	Dormaa West	10,327	8,385	1,942		16,741	9,441	7,300
0025	Techiman North	13,490	8,135	5,355		14,477	7,589	6,888
0026	Banda	3,685	2,897	788		5,697	3,128	2,569
0027	Sene East	11,201	8,198	3,003		16,618	9,404	7,214
NORTHERN REGION								
0001	Bole	10,160	6,260	3,900		12,977	8,371	4,606
0002	Sawla-Tuna-Kalba	14,906	11,945	2,961		27,350	15,927	11,423
0003	West Gonja	6,255	4,085	2,170		7,650	5,313	2,337
0004	Gonja Central	11,413	8,465	2,948		24,449	14,323	10,126
0005	East Gonja	18,811	13,662	5,149		34,459	21,385	13,074
0006	Kpandai	16,394	14,704	1,690		38,030	20,370	17,660
0007	Nanumba South	11,487	10,627	860		34,258	19,286	14,972
0008	Nanumba North	16,914	14,919	1,995		37,344	22,643	14,701
0009	Zabzugu	6,567	6,137	430		22,165	12,750	9,415
0010	Yendi Municipal	12,721	9,271	3,450		30,972	18,216	12,756

		Households in dwelling units				*Household members engaged in Agriculture*		
0011	Tamale Metropolis	35,408	9,251	26,157		24,808	16,004	8,804
0012	Tolon	8,110	7,495	615		29,313	16,409	12,904
0013	Savelugu-Nanton	14,669	13,093	1,576		36,196	23,934	12,262
0014	Karaga	7,664	7,263	401		28,863	15,452	13,411
0015	Gushiegu	11,150	10,237	913		39,606	21,838	17,768
0016	Saboba	9,011	8,380	631		25,547	12,527	13,020
0017	Chereponi	7,116	6,474	642		19,298	9,842	9,456
0018	Bunkpurugu Yunyoo	17,621	16,578	1,043		45,890	23,675	22,215
0019	East Mamprusi	13,895	12,588	1,307		35,817	20,872	14,945
0020	West Mamprusi	14,432	12,340	2,092		34,386	20,353	14,033
0021	North Gonja	4,793	4,186	607		12,194	7,503	4,691
0022	Kumbumgu	4,133	3,942	191		15,168	8,961	6,207
0023	Sagnerigu Municipal	23,447	8,569	14,878		17,669	12,897	4,772
0024	Mion	8,842	8,143	699		30,100	17,028	13,072
0025	Tatale Sanguli	6,986	6,558	428		24,971	13,355	11,616
UPPER EAST								
0001	Mamprugu Moagduri	5,214	5,066	148		17,288	9,744	7,544
0002	Builsa North	10,872	9,031	1,841		20,605	11,407	9,198
0003	Kasena Nankana West	12,813	11,616	1,197		29,269	14,992	14,277
0004	Kasena Nankana East	19,790	16,363	3,427		39,020	20,265	18,755
0005	Bolgatanga Municipal	26,706	15,959	10,747		41,091	21,053	20,038
0006	Talensi	15,748	14,291	1,457		30,693	16,742	13,951
0007	Bongo	15,188	14,537	651		38,574	17,822	20,752
0008	Bawku West	15,169	14,159	1,010		38,158	18,663	19,495
0009	Garu Tempane	17,520	16,718	802		52,614	24,837	27,777
0010	Bawku Municipal	15,012	9,135	5,877		25,427	13,052	12,375
0011	Builsa South	6,043	5,600	443		14,430	8,434	5,996
0012	Nabdam	5,966	5,710	256		13,309	7,260	6,049
0013	Binduri	9,199	8,641	558		25,986	12,305	13,681
0014	Pusiga	7,603	6,900	703		22,843	11,221	11,622
UPPER WEST								
0001	Wa West	11,486	10,524	962		30,407	16,471	13,936
0002	Wa Municipal	18,891	5,841	13,050		16,519	9,117	7,402
0003	Wa East	10,768	10,167	601		29,225	16,299	12,926
0004	Sissala East	8,652	7,339	1,313		19,529	10,459	9,070
0005	Nadowli-Kaleo	10,179	8,328	1,851		19,375	10,357	9,018
0006	Jirapa	13,911	11,508	2,403		31,419	16,526	14,893
0007	Sissala West	7,116	6,535	581		17,137	9,098	8,039
0008	Lambussie Karni	7,524	6,325	1,199		19,901	10,456	9,445
0009	Lawra	9,200	7,680	1,520		13,596	8,752	4,844
0010	Daffiama Bussie	5,030	4,355	675		11,177	6,052	5,125
0011	Nandom	7,417	6,329	1,088		10,696	6,986	3,710