

AGRICULTURE IN GHANA

FACTS AND FIGURES **(2018)**

Issued by:

MINISTRY OF FOOD AND AGRICULTURE (MoFA),
Statistics, Research and Information Directorate (SRID)

October, 2019

FOREWORD

This document, Agriculture in Ghana: Facts and Figures (2018), has been prepared by the Statistics Research and Information Directorate (SRID) of the Ministry of Food and Agriculture (MoFA). It is the 28th 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 one of the most important global goals - 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 (through surveys conducted by SRID) and secondary (data obtained largely from public and private institutions and published documents/reports) Access to the secondary source of data 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 and therefore, their reluctance to readily provide the data. The directorate, in response to this, from time to time organize stakeholder validation workshops and invite, among others, data providers so they could not only assist in validating the data they provide but also to appreciate the importance (or the use) of the data requested of them.

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 collaborated with the International Food Policy Research Institute (IFPRI) to strengthen the agricultural statistics system through the implementation of the Ghana Agricultural Production Survey (GAPS) – 2011 to 2016. The GAPS brought about significant improvement in the quality and quantity of statistics generated by SRID. Again, with the collaboration of the Ghana Statistical Service and

funding support from the Government, World Bank and FAO, the Ministry is conducting the census of agriculture and it is believed that output from the census would to a large extent help address gaps identified in data needs by various key stakeholders.

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 pace of 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:

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Hon. Minister of Food and Agriculture
(October, 2019)

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We are particularly grateful to MoFA top Management, led by the sector Minister, the Minister of State and the Deputy Ministers, 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.

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, and also through financial and/or logistics support we are pleased to say that your invaluable contributions, suggestions and comments, have largely contributed to enhancing the credibility and continuous production 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 the 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:	16
Total Administrative Districts:	260 (Metropolitan=6, Municipal=109, District=145)
Population (2010):	24,658,823 ¹
Population Estimate (2018):	29, 614, 337²
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:	535 km long ³
Total Land Area:	23,853,300 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.

¹2010 National Population and Housing Census (GSS)

²Data Processing Unit, GSS Projection

³CILSS (2016) *Landscapes of West Africa: A Window on a Changing World*. US Geological Survey

SECTION 2: LAND USE, VEGETATION, SOILS AND CLIMATE

2.1 Land Use

Table 2.1: Category of Land Use

Type of Land Use	Hectares	(%)	Percentage formula definition
1.0 Total Land Area (T.L.A.)	23,884,245 ¹	100.00	
2.0 Agric. Land Area (A.L.A.)	13,600,000	56.94	(2.0/1.0)
2.1 Area under cultivation (2018)	6,763,500	49.73	(2.1/2.0)
2.1.1 Total area under irrigation (2018)	222,978	3.18	(2.1.1/2.1)
3.0 Area under inland waters	1,100,000 ²	4.61	(3.0/1.0)
4.0 Others (forest reserves, savannah Woodland etc.)	8,746,021	36.62	(4.0/1.0)

Sources: The Ghana Survey Dep't and SRID, MOFA, Accra, (2018)

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.

¹CIA World Fact Book (2017): 238,533 Square Kilometres

²CIA World Fact Book (2017): 11,000 Square Kilometres

Table 2.2: Land Use 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

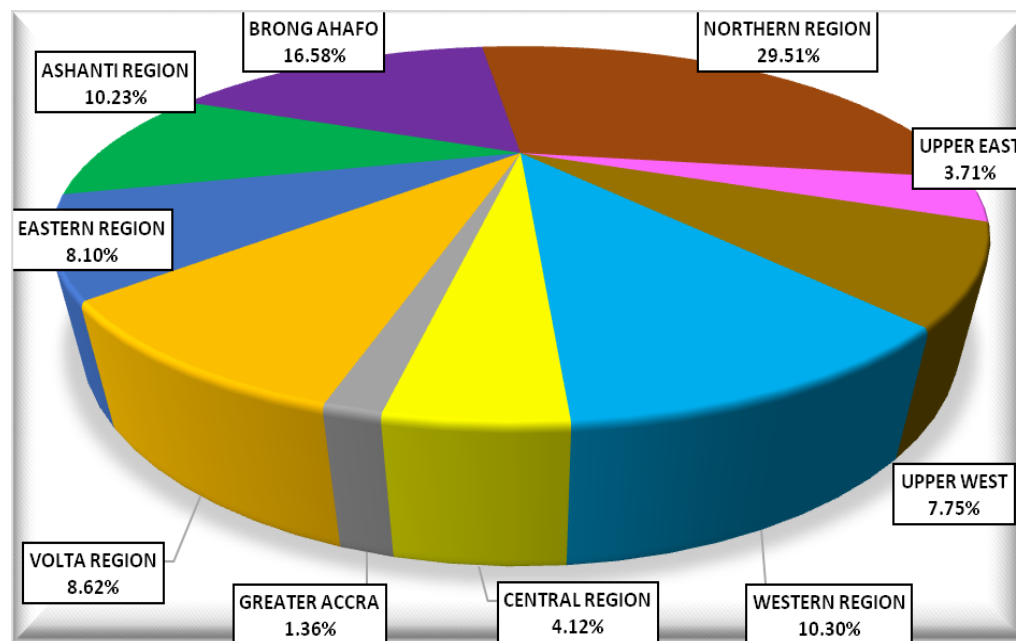
Source: Ministry of Food and Agriculture, Medium Term Agric. Development Program (MTADP), (1990).

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 (%)



Derived from table 2.3

2.2 Vegetation

2.2.1 Land Cover

The most obvious land cover change in Ghana is the major increase in agricultural land in all regions of the country. However, the largest increases can be seen in the North-East, East-Central, and South-Western regions of Ghana. This rate of agricultural expansion is unprecedented in the country's history, overrunning many of the other land cover types, including Ghana's savanna, woodlands, and forests. From 1975 to 2000, agricultural lands expanded from 13 to 28 percent of Ghana's total area and continued to extend rapidly, reaching 32 percent of Ghana's land area in 2013. This expansion has significance beyond the simple area numbers. Agricultural lands often represent a radical transformation from a diverse variety of vegetation types and natural habitats to crop-dominated landscapes. In Ghana, savannas experienced a large loss, from about 51 to 40 percent of the total land area from 1975 to 2013. The formerly uninterrupted savanna landscapes of the Central Sudan Savanna, Main Transitional Zone, and Central Transitional Zone are now highly fragmented, with large tracts of natural habitat broken into myriad patches of farmland, reducing habitat suitability for many types of wildlife.

Another important land cover change in Ghana is the degradation of forests. The forest class (represented primarily by Ghana's dense evergreen rain forest and moist deciduous forest) shows a small decline in area from about 16,400 sq km in 1975 to 15,500 sq km in 2000, a reduction of 5 percent. This decline accelerated rapidly between 2000 and 2013, as forests were reduced by an additional 20 percent, to 12,400 sq km in 2013. The degraded forest, which occurs mainly in the off-reserve areas, represents a vegetation type that was derived from the dense and deciduous forests, modified by human activity. The traditional slash and burn method of agriculture, logging, annual wildfires, and recently commissioned opencast mining are the major disturbing factors

that have diminished vegetation extent and composition in the southern ecoregions. Degraded forests continued to decrease in area, losing 17 percent of their cover between 1975 and 2013. The expansion of cocoa farms, other crops, and fallow lands was the primary driver of the decline in degraded forest area. The gallery forest, which represents the most biologically rich habitat in the savanna zones of central and northern Ghana, also experienced a decline that has accelerated, mainly because of clear-cutting for agriculture, from 6,200 sq km in 1975 to 3,750 sq km in 2013. If we add all forest classes together, we see a significant decline of 25 percent of forests over the 38-year period. However, historical imagery confirms that a much larger loss of forest occurred during the 1960s. What remains today is primarily contained in the biological reserves. Ghana continues to lose its forest resources at an unsustainable rate. Ghana's rapid population growth is reflected in the rapid expansion of the Settlements land cover class. From 1,460 sq km in 1975, urban areas expanded to 2,560 sq km in 2000 and 3,830 sq km in 2013, a 161 percent increase over 38 years. (Source: <https://eros.usgs.gov/westafrika/land-cover/land-use-land-cover-and-trends-ghana>). The Accra Metropolitan Area has about 2 million people, Kumasi Metropolis just over 2 million, and Tamale Metropolis about 263,000 (GSS projections, 2017).

Table 2.4: Land Cover (Km²)

Land cover classes	1975		2000		2013	
	Area (km ²)	Percent of total area	Area (km ²)	Percent of total area	Area (km ²)	Percent of total area
Agriculture	31,600	13.22	67,364	28.18	77,896	32.59
Agriculture in shallows and recession	4	0.00	4	0.00	64	0.03
Bare soil	84	0.04	104	0.04	100	0.04
Cloud	15,512	6.49	224	0.09	-	0.00
Degraded forest	33,008	13.81	30,528	12.77	27,452	11.48
Forest	16,444	6.88	15,560	6.51	12,420	5.20
Gallery forest and riparian forest	6,172	2.58	5,636	2.36	3,756	1.57
Herbaceous savanna	440	0.18	440	0.18	440	0.18
Irrigated agriculture	28	0.01	164	0.07	504	0.21
Mangrove	20	0.01	40	0.02	24	0.01
Open Mine	-	0.00	128	0.05	428	0.18
Plantation	48	0.02	116	0.05	316	0.13
Rocky land	56	0.02	52	0.02	24	0.01
Sandy Area	16	0.01	16	0.01	40	0.02
Savanna	121,580	50.86	103,368	43.24	96,736	40.47
Settlements	1,468	0.61	2,564	1.07	3,836	1.60
Water Bodies	8,372	3.50	8,000	3.35	8,508	3.56
Wetland – floodplain	4,044	1.69	4,516	1.89	6,276	2.63
Woodland	136	0.06	208	0.09	212	0.09
Total mapped area (km ²)	239,032		239,032		239,032	

Source: CILSS (2016) *Landscapes of West Africa: A Window on a Changing World*. US Geological Survey.

Figure 2: Large Area Classes

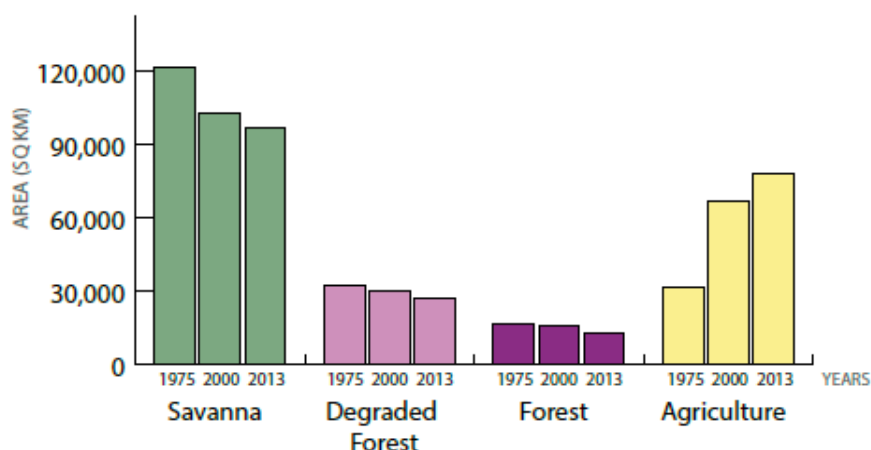
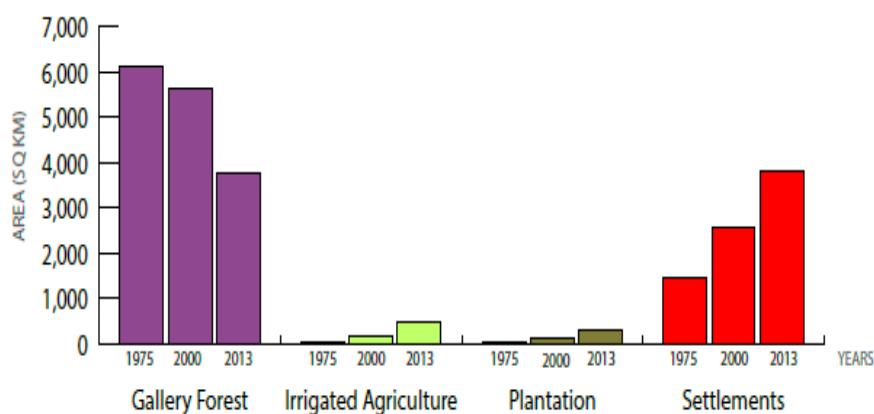


Figure 3: Small Area Classes



Source: CILSS (2016) *Landscapes of West Africa: A Window on a Changing World*. US Geological Survey.

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 11 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	147.9	62
Deciduous Forest		
- Celtis -Triplochiton Association	37.3	15.6
- Antiaris Chlorophora Association	27	11.3
Rain/Deciduous Forest Eco-zone	8.4	3.5
Rain Forest	7.5	3.2
Thicket and Grassland	4.5	1.9
Sudan Savanna Woodland	1.9	0.8
Swamp and Lagoonal Vegetation	1.3	0.6
Others	2.7	1.1
Total	238.5	100.0

Source: Ministry of Lands and Forestry, Accra.

2.3 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. Most 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 the Regions of Ghana

Region	Soil pH	%Organic matter	%Total Nitrogen	Available Phosphorus (mg/kg soil)	Cation Exchange Capacity
Ashanti Region	4.1-7.3	0.00-13.83	0.00-0.52	0.00-6.98	0.00-9.62
Brong Ahafo	4.1-7.7	0.00-13.83	0.00-0.52	0.00-0.41	0.00-9.62
Central Region	4.4-7.7	0.00-4.30	0.00-0.37	0.00-9.80	0.00-2.40
Eastern Region	4.1-7.8	0.00-8.19	0.00-0.37	0.00-3.48	0.00-9.62
Greater Accra	4.4-9.5	0.00-4.00	0.00-0.32	0.00-6.62	0.00-9.28
Northern	4.1-7.4	0.00-6.74	0.00-0.14	0.00-7.60	0.00-7.85
Upper East	4.1-7.4	0.54-6.74	0.00-0.14	0.00-3.62	0.00-7.72
Upper West	4.5-7.4	0.77-6.74	0.00-0.07	0.00-3.62	0.00-4.79
Volta Region	4.1-7.8	0.00-5.63	0.00-0.02	0.00-6.62	0.00-9.28
Western	4.4-6.7	0.19-13.83	0.00-0.37	0.00-0.26	0.00-1.21

Source: Soil Research Institute, Council for Scientific and Industrial Research (CSIR)-Kumasi, 2018

Table 2.8: Fertility Status of Soils in the Ecological Zones of Ghana

Ecological Zones	Soil pH	%Organic matter	%Total Nitrogen	Available Phosphorus (mg/kg soil)	Cation Exchange Capacity
Coastal savana	4.4-9.5	0.00-8.00	0.07-0.37	0.00-6.62	0.00-9.28
Decidious Forest	4.4-9.5	0.00-13.83	0.00-0.52	0.00-3.48	0.00-9.62
Moist Evergreen	4.4-7.7	0.69-13.83	0.00-0.37	<0.02	0.00-1.21
Wet Evergreen	4.4-7.7	0.69-13.83	0.00-0.37	0.00-8.19	0.00-1.21
Trasitional	4.1-7.7	0.00-10.3	0.00-0.52	0.00-2.00	0.00-9.62
Guinea Savana	4.1-7.4	0.00-6.74	0.00-0.14	0.00-7.60	0.00-7.85
Sudan Savana	4.1-7.4	0.54-5.89	0.00-0.1	0.00-3.62	0.00-7.72

Source: Soil Research Institute, CSIR-Kumasi

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°C in places near the coast to 28.9°C in the extreme north. It is usually breezy and sunny. Day time temperatures may rise above 40°C 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 May to October (uni-modal rainfall system). These define the farming seasons of Ghana (Major and Minor seasons).

Table 2.9: Annual Regional Rainfall Data in mm (2009- 2018)

REGION	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	10-YEAR Average	30-YEAR Average*	(%) Change 2018/30- Year Average	(%) Change 2018/20 17
WESTERN	1,385	1,749	1,445	1,298	1,025	1,654	1,144	1,268	1,780	1,512	1,426	1,558	-2.95	-15.06
CENTRAL	1,195	1,359	1,144	1,029	920	1,447	1,051	894	1,551	1,743	1,233	1,252	39.22	12.38
GREATER ACCRA	805	871	812	646	365	777	689	786	833	830	741	788	5.33	-0.36
VOLTA	1,212	1,009	928	1,061	1,075	1,368	1,213	1,085	1,189	1,105	1,125	1,340	-17.54	-7.06
EASTERN	1,211	1,477	1,337	1,204	1,080	1,271	999	1,171	1,547	1,277	1,257	1,180	8.22	-17.45
ASHANTI	1,380	1,397	1,170	1,224	1,215	1,381	1,025	790	1,303	1,463	1,235	1,345	8.77	12.28
BRONG AHAFO	1,148	1,251	823	1,049	1,814	1,239	1,048	852	1,061	1,273	1,156	1,244	2.33	19.98
NORTHERN	1,292	1,361	1,083	1,002	1,066	1,084	870	860	1,017	1,207	1,084	1,155	4.50	18.68
UPPER EAST	884	984	665	956	997	707	918	503	857	950	842	912	4.17	10.85
UPPER WEST	1,086	630	523	1,136	434	300	724	448	747	714	674	1,022	-30.14	-4.42
TOTAL	11,598	12,088	9,929	10,605	9,992	11,228	9,679	8,658	11,885	12,074	10,774	11,796	2.36	1.59
AVERAGE	1,160	1,209	993	1,061	999	1,123	968	866	1,189	1,207	1,077	1,180	2.29	1.51

Source: Ghana Meteorological Agency

*(1961 – 1990)

SECTION 3: POPULATION IN AGRICULTURE

3.1 Rural and Urban Population in Agriculture

Rural population constitutes 49.1 percent 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/km ²)
	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)

3.2 Distribution of Agriculture Households by Region by Locality Type

Table 3.2a: Rural Households

Region	Total Households (HHs)			Rural		
	No.	Agriculture	(%) of Total	No.	Agriculture	(%) of Total
All Regions	5,467,136	2,503,006	45.80	2,417,800	1,820,431	76.1
Western	553,635	275,975	49.80	304,716	220,634	72.4
Central	526,764	270,854	51.40	271,408	198,703	73.2
Greater Accra	1,036,426	68,715	6.60	86,090	26,981	31.3
Volta	495,603	291,224	58.80	316,789	231,737	73.2
Eastern	632,048	374,257	59.20	338,498	257,652	76.1
Ashanti	1,126,216	412,055	36.60	410,743	275,003	71.8
Brong Ahafo	490,519	336,097	68.50	254,232	214,136	84.2
Northern	318,119	240,238	75.50	212,048	190,901	89.9
Upper East	177,631	148,660	83.70	135,688	127,082	93.7
Upper West	110,175	84,931	77.10	87,546	77,602	88.6

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

Table 3.2b: Urban Households

Region	Total Households (HHs)			Urban		
	No.	Agriculture	(%) of Total	No.	Agriculture	(%) of Total
All Regions	5,467,136	2,503,006	45.80	3,049,366	662,775	21.70
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

3.3 Distribution of Households Owning or Operating a Farm

Table 3.3 shows the distribution of households and members who own or operate a farm. As indicated, 44.1 percent of households in Ghana are estimated to either own or operate a farm.

Table 3.3: Households and members owning or operating a farm by region and type of locality

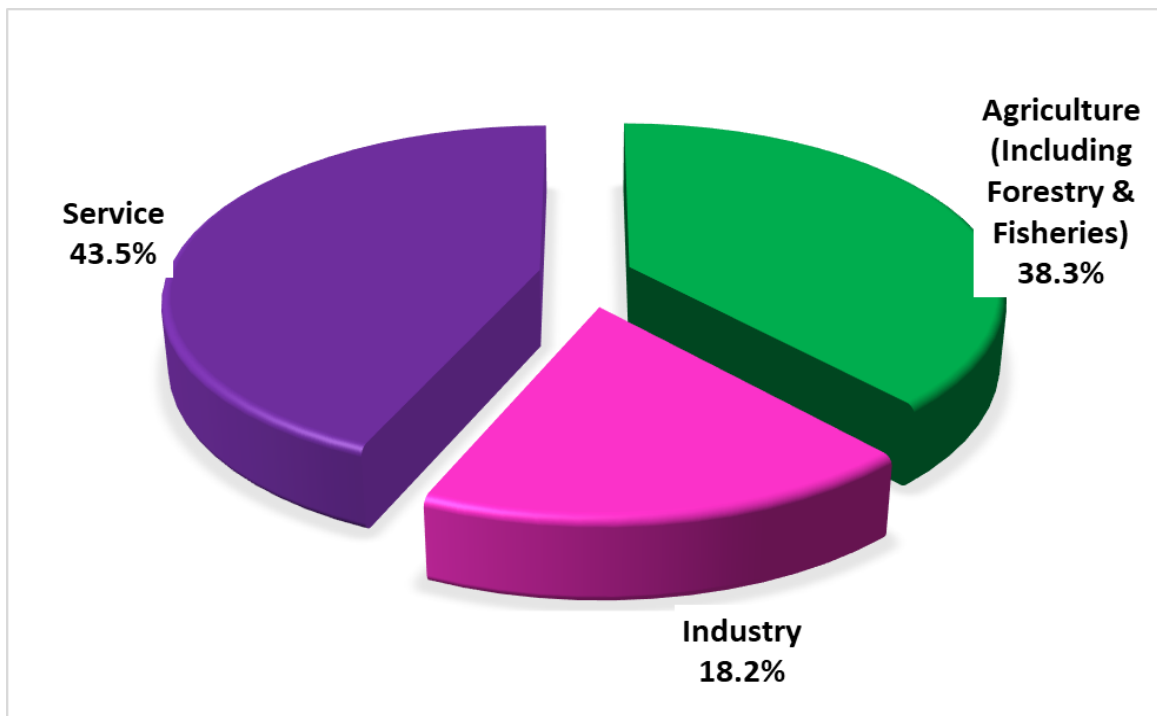
Region/Type of locality	Households:		Members:	
	Estimated total number	Proportion owning or operating a farm	Estimated total	Female proportion
Total	7,299,925	44.1	5,297,280	46.4
Western	753,642	51.7	586,212	42.8
Central	607,837	52.0	494,442	49.9
Greater Accra	1,324,504	5.4	99,237	36.8
Volta	547,455	66.7	640,326	49.1
Eastern	857,405	58.4	717,752	45.6
Ashanti	1,661,560	29.9	660,921	49.1
Brong Ahafo	678,208	62.3	693,577	48.7
Northern	479,675	70.6	783,275	42.7
Upper East	226,983	83.2	387,862	48.8
Upper West	162,655	80.4	233,677	42.0
Urban	4,089,329	20.4	1,162,368	41.5
Accra	514,422	3.1	17,199	14.6
Other Urban	3,574,907	22.8	1,145,169	41.9
Rural	3,210,595	74.4	4,134,912	47.8
Rural Coastal	562,328	54.2	478,105	51.2
Rural Forest	1,802,279	73.2	2,014,694	48.5
Rural Savannah	845,988	90.4	1,642,113	46.0

GSS, Ghana Living Standard Survey 7 (GLSS7) June 2019

3.4 Distribution of Labour Force by Economic Activity

Figure 4 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 38.3 percent, with the Service and Industry sectors accounting for 43.5 percent and 18.2 percent respectively (GLSS7, 2019). This means, agriculture is the second largest employer, following after the Service's Sector. Refer to Appendix 18 for further details.

Figure 4: Share of Total Labour Force by Sector (persons aged 15 years and older)



Source: GSS, GLSS 7, June 2019

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.

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

Crop	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Maize	954	992	1,023	1,042	1,023	1,025	880	865	985	1,021
Millet	187	177	179	172	161	162	162	137	156	142
Rice	162	181	197	189	216	224	233	236	241	260
Sorghum	267	253	243	231	226	227	228	201	224	228
Cassava	886	875	889	869	875	889	917	879	917	977
Cocoyam	225	205	204	196	194	200	200	206	204	203
Plantain	325	328	336	337	340	357	363	358	363	387
Yam	379	385	204	426	422	428	430	427	493	470
Soya Bean	77	91	86	85	85	87	86	87	102	103
Groundnut	337	333	357	345	329	335	336	327	316	320
Cowpea	163	167	182	169	162	166	163	147	154	157

Source: (MRACLS/GAPS) – SRID, MoFA (2018)

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

CROP	2011	2012	2013	2014	2015	2016	2017	2018
Cocoa	1,600.30	1,600.80	1,650.80	1,683.77	1,717.44	1751.79	1,786.83	1,826.83
Oil Palm	381.80	397.10	409.10	349.04	425.60	434.12	346.71	351.39
Cashew	82.00	86.50	89.00	90.78	92.60	94.45	95.00	118.75
Coconut	25.30	25.30	26.10	26.60	27.15	27.70	28.25	28.68
Rubber	25.80	26.00	26.80	27.35	27.88	28.44	29.01	29.59
Citrus	16.20	16.50	17.00	17.34	17.69	18.04	18.40	18.59
Coffee	0.40	0.40	0.50	0.46	0.47	0.48	0.49	0.50
Mango	7.00	7.20	7.40	7.55	7.70	7.85	8.01	8.08
Banana	7.50	7.60	7.80	7.96	8.12	8.28	8.44	8.53
Pawpaw	1.20	1.50	1.60	1.50	1.61	1.65	1.68	1.69
Pineapple	9.80	10.00	10.30	10.50	10.72	10.93	11.15	11.32
Tomato	44.50	44.80	46.10	47.02	47.96	48.92	49.90	51.00
Pepper (Chilli)	13.40	13.70	14.10	14.40	14.68	14.97	15.27	15.46
Shallot	5.20	5.20	5.40	5.46	5.57	5.68	5.79	5.85
Okro	2.80	3.00	3.10	3.16	3.23	3.29	3.36	3.42
Onion	7.50	8.00	8.30	8.42	8.58	8.76	8.93	9.06
Garden Eggs	5.50	6.00	6.20	6.33	6.45	6.58	6.71	6.76

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

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

CROP	Average Area ('000 Ha)		Growth Rate (%)	Average Area ('000 Ha)		Growth Rate (%)
	2007-2009	2010-2012		2013-2015	2016-2018	
Maize	863.60	1,019.00	5.61	976.01	956.77	-0.65
Rice (Paddy)	134.70	183.13	10.67	224.30	245.42	3.01
Millet	177.20	175.97	-0.23	161.68	144.74	-3.59
Sorghum	250.53	242.30	-1.10	226.91	217.61	-1.37
Cassava	842.07	877.63	1.37	893.60	924.43	1.13
Cocoyam	244.67	202.00	-6.13	198.13	204.45	1.04
Yam	349.97	405.00	4.94	426.54	455.75	2.21
Plantain	314.00	333.93	2.05	352.77	318.83	-3.28
Groundnuts	342.93	345.13	0.21	333.06	331.40	-0.17
Cowpea	154.27	172.70	3.80	163.57	152.45	-2.30
Soybean	61.97	82.43	9.88	85.89	97.48	4.27

Source: Based on Table 4.1 and Appendix 16

Growth Rate is based on the comparison of the average of 2007 – 2009 with the average of 2010 – 2012 and the average of 2013 - 2015 with average of 2016 – 2018.

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

Crop	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Maize	1,620	1,872	1,683	1,950	1,764	1,769	1,692	1,722	2,011	2,306
Millet	246	219	183	180	155	155	157	159	163	182
Rice (paddy)	391	492	463	481	570	604	641	688	722	769
Rice (milled)*	235	295	278	332	393	417	443	475	498	531
Sorghum	351	324	287	280	257	259	263	230	278	316
Cassava	12,231	13,504	14,240	14,547	15,990	16,524	17,213	17,798	19,008	20,846
Cocoyam	1,504	1,355	1,299	1,270	1,261	1,299	1,301	1,344	1,387	1,461
Plantain	3,563	3,538	3,619	3,556	3,675	3,828	3,952	4,000	4,279	4,688
Yam	5,778	5,960	5,855	6,639	7,075	7,119	7,296	7,440	8,253	7,789
Groundnut	485	531	465	475	409	427	417	426	438	521
Cowpea	205	219	237	223	200	201	203	206	211	237
Soya bean	113	145	165	152	139	141	142	143	170	177

Source: Regional and District Cropped Area, Yield and Production Estimates (2009 – 2018) - Statistics, Research and Information Directorate (SRID), MoFA.

Note: *Milled rice from 2008 to 2011 used extraction rate of 60%; from 2012-2018 extraction rate of 69% of paddy was used (based on revised industry records).

4.1.2 Leading Producers of Some Selected Crops Grown in Ghana

Figures 5a to 5c present the five leading (top) regions, based on a 3-year average production (2016-2018), 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.

5a: Cereals

Figure 5a₁: Maize

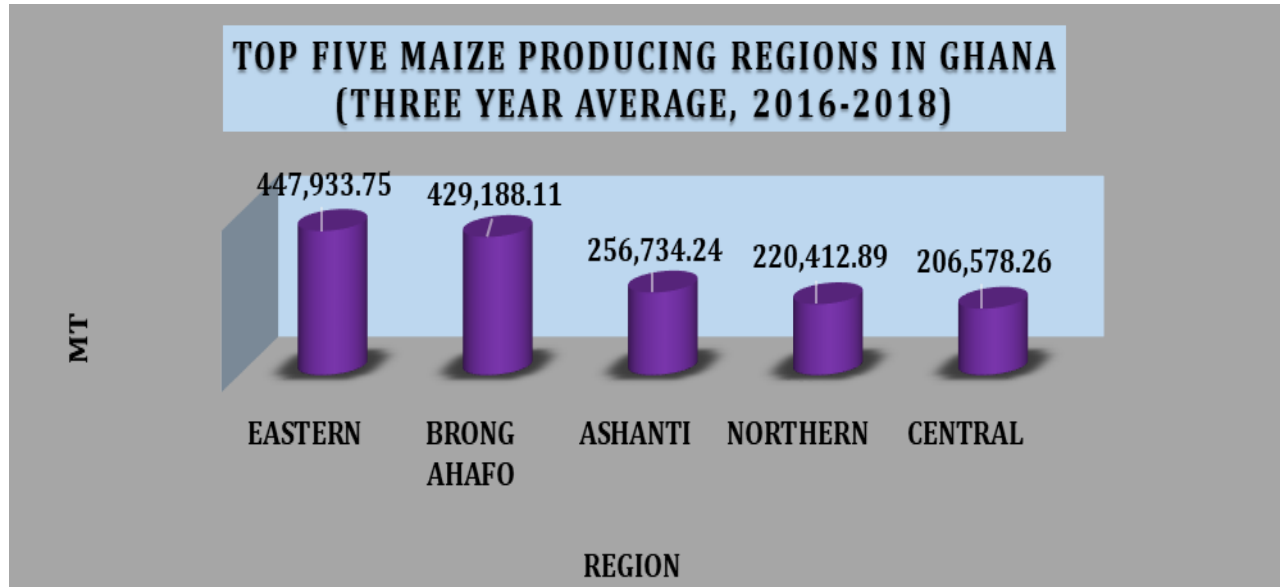


Figure 5a₂: Rice

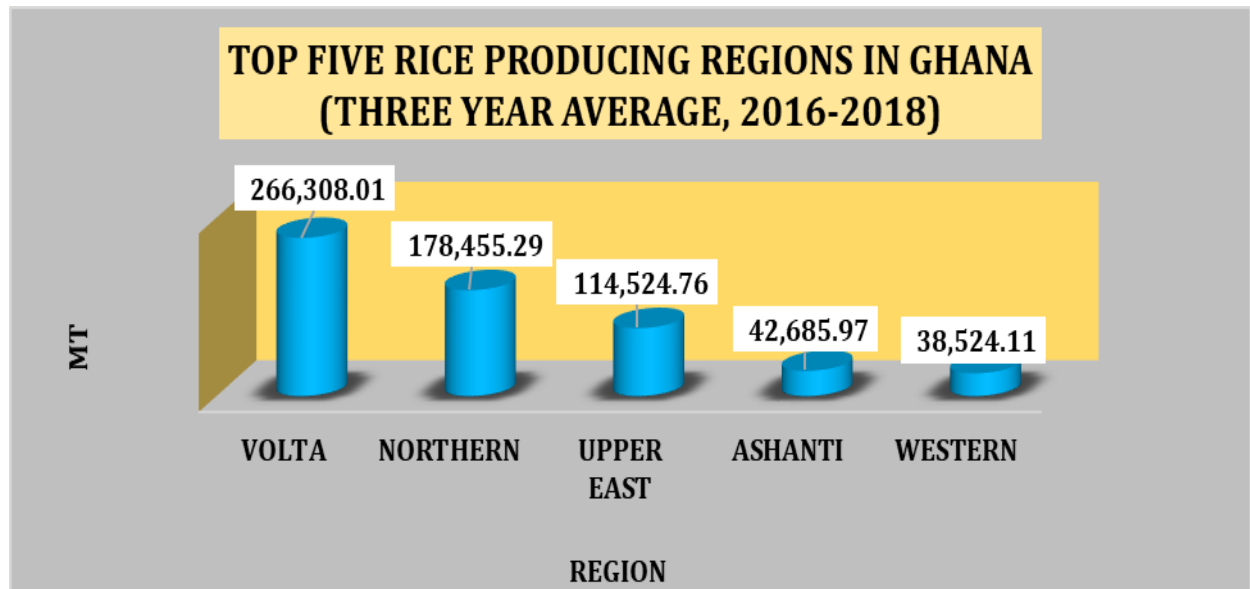
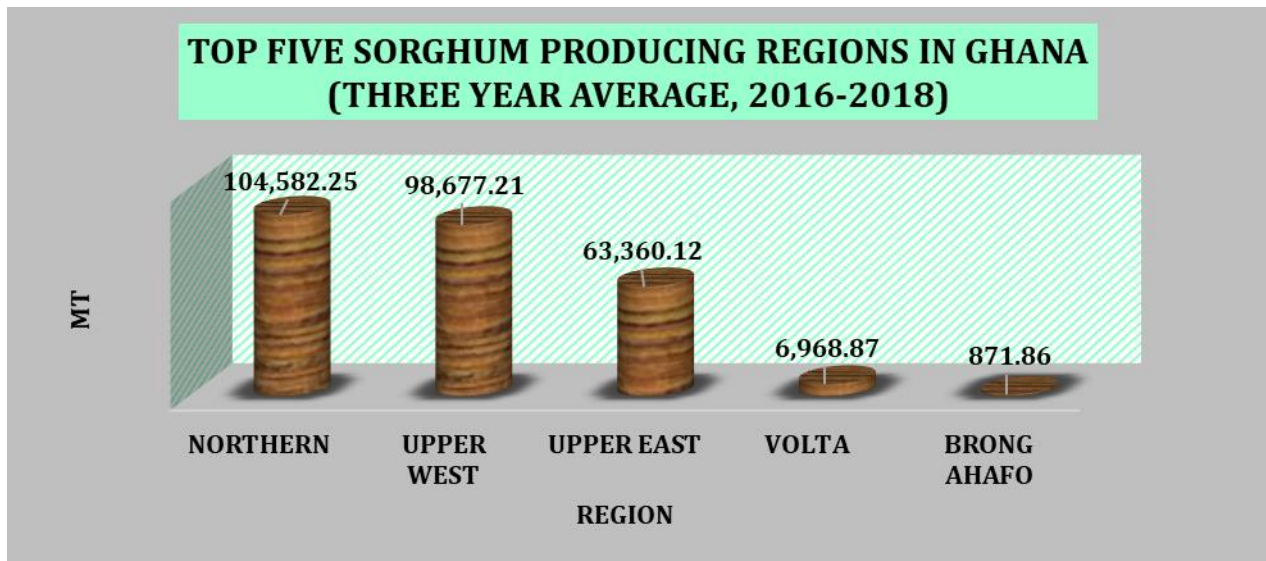


Figure 5a₃: Sorghum



5b: Roots and Tubers

Figure 5b₁: Cassava

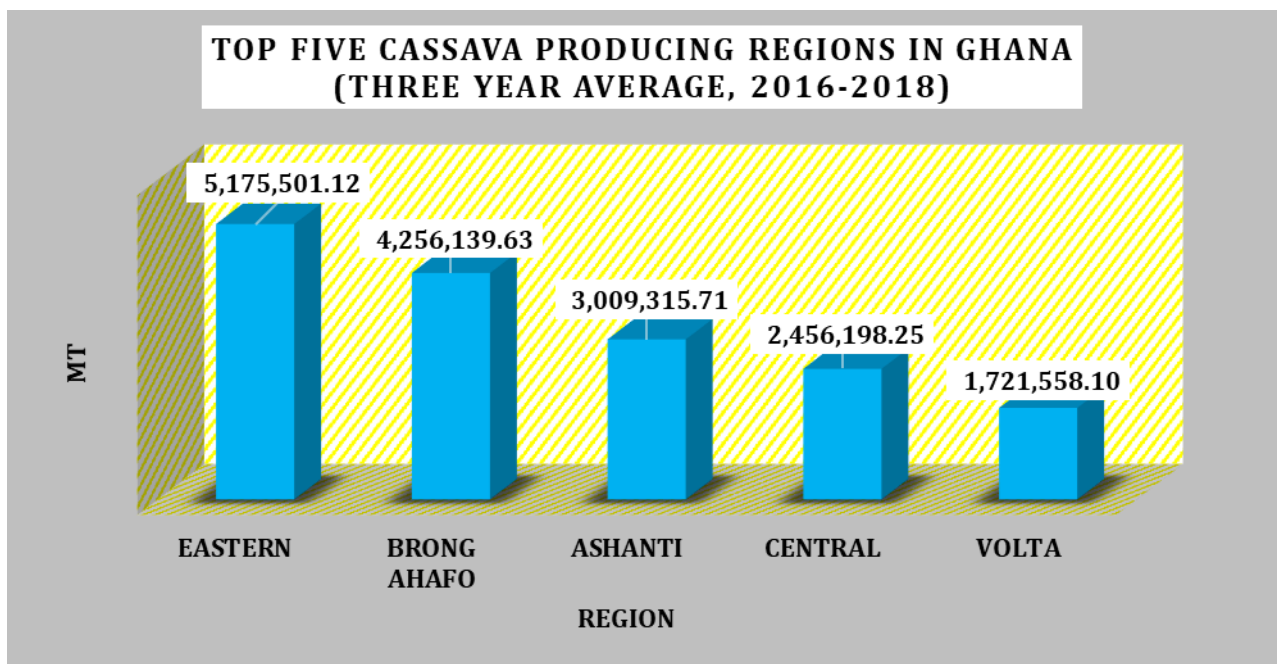
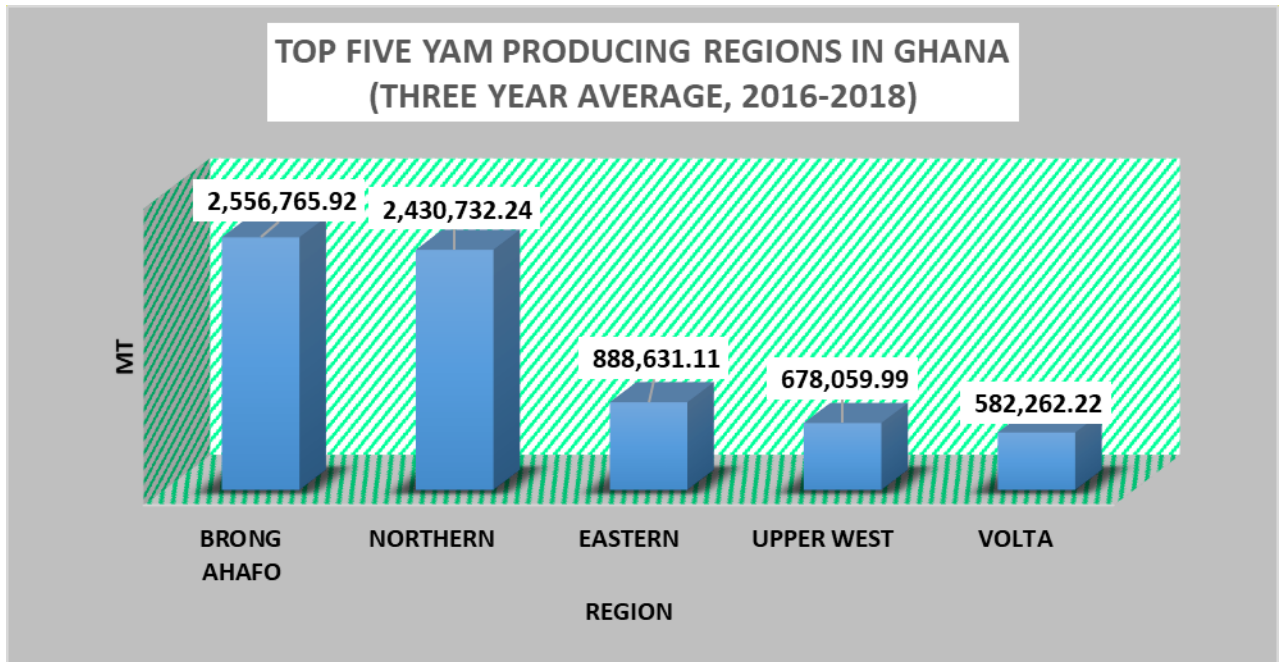


Figure 5b₂: Yam



5c: Legumes

Figure 5c₁: Cowpea

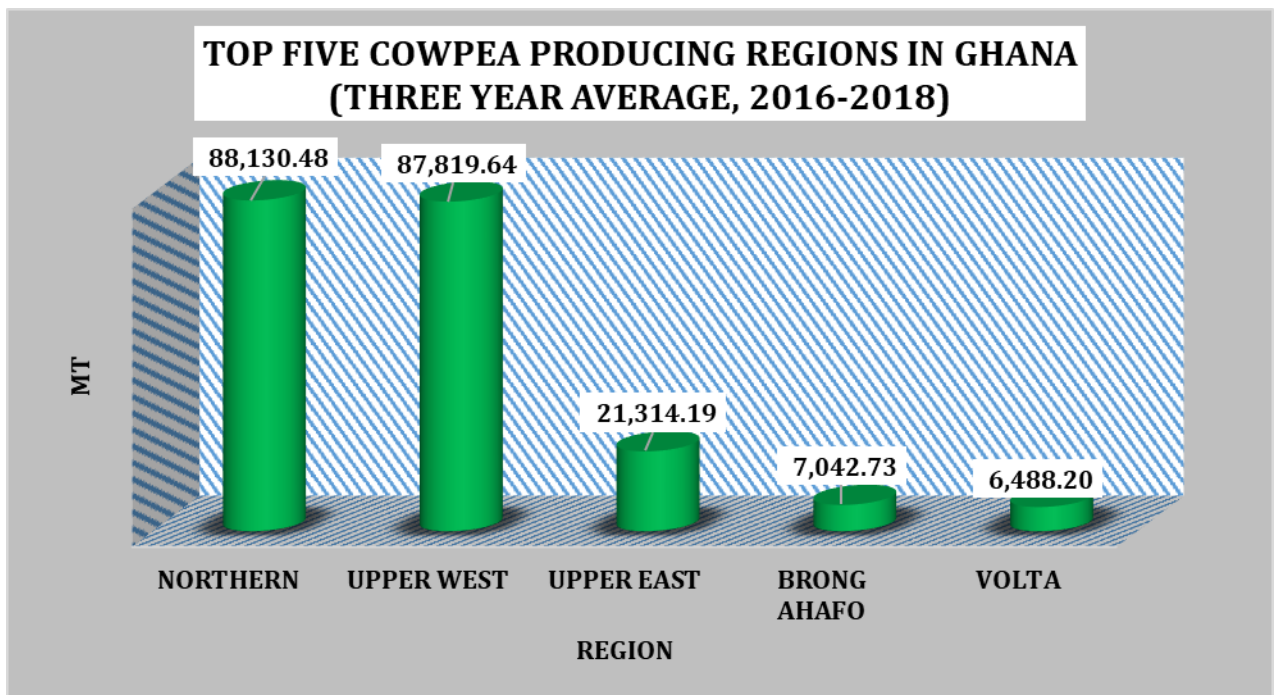


Table 4.5: Mean Annual Production by Growth Rates of Selected Crops

CROP	Average Production ('000 Mt)		Growth Rate (%)	Average Production ('000 Mt)		Growth Rate (%)
	2007-2009	2010-2012		2013-2015	2016-2018	
Maize	1,436.43	1,835.20	8.42	1,741.68	2,013.16	4.90
Rice (Paddy)	292.87	478.90	17.62	604.83	726.39	6.23
Millet	184.10	194.23	1.78	155.81	168.02	2.52
Sorghum	278.80	306.70	3.20	259.57	274.46	1.86
Cassava	11,266.53	14,097.43	7.68	16,575.52	19,217.63	5.00
Cocoyam	1,627.47	1,308.23	-6.95	1,287.16	1,397.32	2.75
Yam	5,016.27	6,118.17	6.77	7,163.16	7,695.37	2.39
Plantain	3,377.97	3,571.33	1.85	3,816.38	4,322.51	4.20
Groundnuts	419.00	490.37	5.33	417.36	460.21	3.28
Cowpea	167.87	226.40	10.38	201.52	218.29	2.67
Soybean	79.13	153.70	24.49	140.72	163.46	5.07

Source: Based on table 4.4 and Appendix 15. Growth Rate is based on the comparison of the average of 2006 – 2008 with the average of 2009 – 2011 and the average of 2012 - 2014 with average of 2015 – 2017.

Table 4.6: Average Yield of Selected Crops under Rain-fed Conditions

Crop	Average Yield (On Farm) (Mt/Ha) 2018**	Potential Yield (Mt/Ha)*	% Achieved
Cassava	21.33	45.00	47.40
Plantain	12.11	38.00	31.87
Yam	16.58	52.00	31.88
Cocoyam	7.19	20.00	35.95
Maize	2.26	5.50	41.09
Rice (Paddy)	2.96	6.00	49.33
Cowpea	1.51	2.50	60.40
Soya bean	1.72	3.00	57.33
Groundnut	1.63	3.50	46.57
Millet	1.28	2.00	64.00
Sorghum	1.39	2.00	69.50
Sweet Potato	15.00	56.00	26.79
Taro	7.00	20.00	35.00
Cocoa	0.54	1.00	53.00
Coffee	1.66	-	-
Cashew	0.44	1.80	29.44
Orange	41.40	100.00	41.40
Pawpaw	37.10	75.00	49.47
Mango	13.71	13.00	105.46
Pineapple	66.23	72.00	91.99
Cotton	0.80	-	-
Rubber	0.85	-	-
Tobacco	1.60	-	-
Tomato	7.93	20.00	39.65
Garden eggs	8.45	15.00	56.33
Pepper	8.88	30.00	29.60

**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 CRI, Kumasi.*

*** Yield (Mt/Ha) from Annual Survey, SRID.*

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, legumes, plantain, roots and tubers. The top performers were determined using a three-year average yield. As indicated, the tables compare average yield (2015-2017) 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)

							National Average	2.26
							Potential Yield	5.50
MAIZE (Mt/Ha)								
Region	District	2016	2017	2018	3-yr Avg	Rank	Avg. Yield as % of National Avg.	Avg. Yield as % of Potential Yields
EASTERN	West Akim	3.97	4.08	4.10	4.05	1	179.20	73.63
EASTERN	Upper West Akim	3.97	4.08	4.08	4.04	2	178.90	73.51
CENTRAL	Twifo-Herman/L. Denkyira	3.22	3.40	3.39	3.34	3	147.66	60.67
ASHANTI	Amansie West	3.10	3.20	3.40	3.23	4	143.08	58.79
ASHANTI	Bekwai (Amansie East)	3.06	3.25	3.38	3.23	5	142.92	58.73
CENTRAL	Abura-Asebu-Kwamankese	2.95	3.20	3.40	3.18	6	140.90	57.90
EASTERN	Birim South	2.98	3.22	3.28	3.16	7	139.85	57.47
EASTERN	Birim Central	3.02	3.21	3.23	3.15	8	139.58	57.35
CENTRAL	Assin South	3.20	3.30	2.85	3.12	9	137.87	56.65
CENTRAL	Gomoa East	2.64	2.80	3.70	3.05	10	134.76	55.38

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

							National Average	2.96
							Potential Yield	6.00
RICE (Mt/Ha)								
Region	District	2016	2017	2018	3-yr Avg	Rank	Avg. Yield as % of National Avg.	Avg. Yield as % of Potential Yields
GREATER ACCRA	Ningo-Prampram	7.00	7.05	5.00	6.35	1	214.47	105.81
GREATER ACCRA	Ashaiman	6.87	7.10	5.00	6.32	2	213.68	105.41
GREATER ACCRA	Shai-Osudoku	7.00	7.05	4.80	6.28	3	212.22	104.70
VOLTA	Ketu North	6.45	5.95	6.10	6.17	4	208.36	102.79
VOLTA	Jasikan	6.59	5.80	5.81	6.07	5	204.93	101.10
VOLTA	South Tongu	4.99	5.70	5.70	5.46	6	184.58	91.06
VOLTA	Hohoe Municipal	4.08	5.68	5.87	5.21	7	175.96	86.81
EASTERN	East Akim	9.82	2.72	2.78	5.11	8	172.53	85.11
VOLTA	Biakoye	4.82	4.90	4.92	4.88	9	164.88	81.34
VOLTA	Kpando Municipal	4.98	4.63	4.90	4.84	10	163.37	80.60

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

							National Average	1.28
							Potential Yield	2.00
MILLET (Mt/Ha)								
Region	District	2016	2017	2018	3-yr Avg	Rank	Avg. Yield as % of National Avg.	Avg. Yield as % of Potential Yields
UPPER EAST	Talensi	0.71	4.38	1.20	2.10	1	163.83	104.85
NORTHERN	Saboba	2.19	2.00	2.00	2.06	2	161.19	103.16
NORTHERN	Zabzugu	2.35	1.00	2.43	1.93	3	150.49	96.31
NORTHERN	West Mamprusi	1.51	2.10	2.10	1.90	4	148.63	95.13
NORTHERN	Chereponi	1.61	2.00	2.00	1.87	5	146.21	93.57
NORTHERN	Bunkpurugu/Yunyoo	1.95	1.50	2.00	1.82	6	141.83	90.77
NORTHERN	Tolon	2.25	1.50	1.50	1.75	7	136.62	87.44
NORTHERN	Mamprugu Moagduri	1.51	2.00	1.70	1.74	8	135.61	86.79
NORTHERN	West Gonja	2.74	1.00	1.40	1.71	9	133.93	85.72
NORTHERN	Karaga	1.62	2.06	1.43	1.70	10	133.00	85.12

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

							National Average	1.39
							Potential Yield	2.00
SORGHUM (Mt/Ha)								
Region	District	2016	2017	2018	3-yr Avg	Rank	Avg. Yield as % of National Avg.	Avg. Yield as % of Potential Yields
NORTHERN	Nanumba South	3.31	2.60	1.80	2.57	1	184.94	128.53
VOLTA	Nkwanta North	3.74	1.50	1.66	2.30	2	165.37	114.94
NORTHERN	Karaga	1.53	2.93	2.13	2.20	3	158.03	109.83
NORTHERN	West Mamprusi	2.00	2.10	2.10	2.07	4	148.68	103.33
NORTHERN	Mamprugu Moagduri	2.00	2.10	1.90	2.00	5	143.88	100.00
VOLTA	Nkwanta South	2.66	1.62	1.65	1.98	6	142.26	98.87
NORTHERN	Nanumba North	2.06	1.60	2.20	1.95	7	140.61	97.73
NORTHERN	Saboba	1.79	2.00	2.00	1.93	8	138.85	96.50
NORTHERN	East Gonja	2.00	1.30	2.34	1.88	9	135.25	94.00
NORTHERN	Sawla/Tuna/Kalba	1.63	2.00	2.00	1.88	10	135.01	93.83

Table 4.7.2 Plantain, Roots and Tubers

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

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

							National Average	21.33
							Potential Yield	45.00
CASSAVA (Mt/Ha)								
Region	District	2016	2017	2018	3-yr Avg	Rank	Avg. Yield as % of National Avg.	Avg. Yield as % of Potential Yields
ASHANTI	Sekyere East	42.35	42.45	44.25	43.02	1	201.68	95.59
EASTERN	Atiwa	35.40	38.35	38.51	37.42	2	175.43	83.15
CENTRAL	Assin South	32.44	33.40	33.50	33.11	3	155.24	73.59
EASTERN	West Akim	28.27	30.29	30.37	29.64	4	138.97	65.87
EASTERN	UpperWest Akim	28.27	30.29	30.37	29.64	5	138.96	65.87
ASHANTI	Bekwai (Amansie East)	29.19	29.31	30.01	29.50	6	138.31	65.56
ASHANTI	Amansie West	27.89	27.90	29.32	28.37	7	133.01	63.05
GREATER ACCRA	Ningo-Prampram	20.17	22.09	42.50	28.25	8	132.46	62.79
EASTERN	Akuapim North	26.89	28.63	28.96	28.16	9	132.01	62.57
BRONG AHAFO	Techiman Municipal	28.65	25.70	28.76	27.70	10	129.88	61.56

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

							National Average	16.71
							Potential Yield	52.00
YAM (Mt/Ha)								
Region	District	2016	2017	2018	3-yr Avg	Rank	Avg. Yield as % of National Avg.	Avg. Yield as % of Potential Yields
UPPER WEST	Dafiama-Bussie-Issa	25.03	25.39	24.80	25.07	1	151.22	48.22
UPPER WEST	Wa Municipal	24.25	24.57	24.30	24.37	2	147.01	46.87
UPPER WEST	Nadowli	22.98	23.46	24.00	23.48	3	141.62	45.15
EASTERN	Kwahu Afram Plains South	22.91	22.64	22.82	22.79	4	137.46	43.83
EASTERN	Kwahu Afram Plains North	22.91	22.64	22.74	22.76	5	137.30	43.78
NORTHERN	West Gonja	23.52	24.00	19.00	22.17	6	133.74	42.64
BRONG AHAFO	Kintampo South	21.68	21.80	21.90	21.79	7	131.44	41.91
UPPER WEST	Wa East	20.34	20.73	20.89	20.65	8	124.56	39.71
BRONG AHAFO	Nkoranza North	19.73	20.60	20.23	20.19	9	121.75	38.82
EASTERN	Upper Manya Krobo	18.92	20.53	20.54	20.00	10	120.60	38.45

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

							National Average	11.77
PLANTAIN (Mt/Ha)							Potential Yield	38.00
Region	District	2016	2017	2018	3-yr Avg	Rank	Avg. Yield as % of National Avg.	Avg. Yield as % of Potential Yields
BRONG AHAFO	Asunafo South	19.86	18.50	18.60	18.99	1	156.78	49.96
BRONG AHAFO	Asutifi South	18.14	18.60	18.71	18.48	2	152.63	48.64
BRONG AHAFO	Asutifi North	18.14	18.00	17.90	18.01	3	148.75	47.40
ASHANTI	Asante Akim South	14.69	14.69	15.23	14.87	4	122.80	39.14
BRONG AHAFO	Tano North	14.10	14.20	15.20	14.50	5	119.74	38.16
ASHANTI	Sekyere Central	14.03	14.63	14.65	14.44	6	119.20	37.99
ASHANTI	Offinso North	14.05	14.45	14.65	14.38	7	118.77	37.85
ASHANTI	Ahafo Ano North	13.47	13.85	15.73	14.35	8	118.50	37.77
CENTRAL	Awutu-Senya	13.58	14.50	14.50	14.19	9	117.19	37.35
ASHANTI	Bosumtwe	13.69	13.98	14.66	14.11	10	116.51	37.13

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

							National Average	7.19
COCOYAM (Mt/Ha)							Potential Yield	20.00
Region	District	2016	2017	2018	3-yr Avg	Rank	Avg. Yield as % of National Avg.	Avg. Yield as % of Potential Yields
EASTERN	Atiwa	9.76	10.08	10.07	9.97	1	138.67	49.85
EASTERN	Birim Central	9.28	9.57	9.59	9.48	2	131.86	47.40
VOLTA	Biakoye	10.63	8.75	8.95	9.44	3	131.35	47.22
EASTERN	Birim South	9.19	9.47	9.45	9.37	4	130.34	46.86
Western	Sefwi-Wiawso	8.95	9.94	9.14	9.34	5	129.93	46.71
EASTERN	Ayensuano	8.15	9.81	9.80	9.25	6	128.72	46.27
EASTERN	Fanteakwa	8.77	9.07	9.16	9.00	7	125.20	45.01
EASTERN	Kwaebibirem	8.60	8.86	8.89	8.78	8	122.15	43.91
EASTERN	Denkyembour	8.60	8.86	8.84	8.77	9	121.93	43.83
VOLTA	Jasikan	10.62	7.76	7.87	8.75	10	121.68	43.75

Table 4.7.3 Legumes and Pulses

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

							National Average	1.51
							Potential Yield	2.50
COWPEA(Mt/Ha)								
Region	District	2016	2017	2018	3-yr Avg	Rank	Avg. Yield as % of National Avg.	Avg. Yield as % of Potential Yields
VOLTA	Akatsi South	2.66	2.85	2.93	2.81	1	186.32	112.53
NORTHERN	Gushiegu	3.68	1.42	1.54	2.21	2	146.59	88.54
NORTHERN	Yendi	2.47	1.50	2.53	2.17	3	143.41	86.62
UPPER EAST	Bawku Municipal	3.85	1.30	1.00	2.05	4	135.76	82.00
UPPER WEST	Lawra	1.92	2.01	2.20	2.04	5	135.27	81.70
NORTHERN	Savelugu/Nanton	1.74	2.38	2.00	2.04	6	135.05	81.57
NORTHERN	Kpandai	2.00	1.96	1.96	1.97	7	130.68	78.93
NORTHERN	Bunkpurugu/Yunyoo	1.80	1.98	1.98	1.92	8	127.15	76.80
NORTHERN	Tolon	1.99	2.00	1.65	1.88	9	124.51	75.20
NORTHERN	Central Gonja	1.91	1.20	2.49	1.87	10	123.55	74.62

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

							National Average	1.72
							Potential Yield	3.00
SOYA BEAN(Mt/Ha)								
Region	District	2016	2017	2018	3-yr Avg	Rank	Avg. Yield as % of National Avg.	Avg. Yield as % of Potential Yields
NORTHERN	Savelugu/Nanton	2.38	2.73	2.15	2.42	1	140.70	80.67
NORTHERN	Mion	2.40	2.70	2.12	2.41	2	139.98	80.26
NORTHERN	Yendi	2.40	2.50	2.32	2.41	2	139.98	80.26
NORTHERN	Tolon	2.32	2.10	2.15	2.19	4	127.34	73.01
NORTHERN	Nanumba South	2.43	1.30	2.75	2.16	5	125.53	71.97
NORTHERN	Sagnerigu	1.60	2.70	2.10	2.13	6	124.03	71.11
NORTHERN	Central Gonja	2.60	1.78	2.00	2.13	7	123.64	70.89
NORTHERN	West Gonja	2.36	1.40	2.50	2.09	8	121.33	69.56
NORTHERN	Tamale Metro	1.60	2.40	1.92	1.97	9	114.73	65.78
NORTHERN	Kpandai	2.13	1.89	1.89	1.97	10	114.60	65.70

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

							National Average	1.63
							Potential Yield	3.50
GROUNDNUT(Mt/Ha)								
Region	District	2016	2017	2018	3-yr Avg	Rank	Avg. Yield as % of National Avg.	Avg. Yield as % of Potential Yields
NORTHERN	Savelugu/Nanton	2.63	2.52	2.50	2.55	1	156.44	72.86
NORTHERN	Kpandai	2.21	2.00	1.95	2.05	2	125.97	58.67
NORTHERN	West Mamprusi	1.59	2.70	1.45	1.91	3	117.48	54.71
NORTHERN	East Gonja	2.14	1.00	2.60	1.91	4	117.37	54.66
NORTHERN	Tolon	1.60	2.20	1.78	1.86	5	114.19	53.18
NORTHERN	Tatale Sanguli	2.02	1.65	1.87	1.85	6	113.21	52.73
NORTHERN	Zabzugu	2.02	1.65	1.83	1.83	7	112.31	52.30
NORTHERN	Yendi	1.41	1.50	2.53	1.81	8	111.20	51.79
NORTHERN	Sagnerigu	1.66	1.78	1.86	1.77	9	108.45	50.51
NORTHERN	Mamprugu Moagduri	-	1.49	2.00	1.75	10	107.06	49.86

Table 4.8: Estimated Levels of Apparent Per Capita Consumption (Supply of Selected Commodities (5yr. interval))

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 formation was not available.

Table 4.9: Food Balance Sheet (2018/2019) Production Season (Provisional)

Type of Commodity	DOMESTIC SUPPLY (MT)					DOMESTIC UTILIZATION (MT)					Per Capita Supply				Self-Sufficiency Ratio (%)	import Dependency Ratio(%)
	Production (Gross Biological Production)	Imports	Stocks (Carry over)	Exports	Total Supply	Seed	Feed	Waste	Processing	Food* (MT)	Kg/Annum	Kcal/day	Protein Kg/day	Fat Kg/day		
Cereals	4,104,472	1,628,158	396,032	94,732	5,264,528										73	
Maize	2,306,384	81,707.64	156,802	192.44	2,544,701		691,915.19			1,852,786	62.56	610.21	16.28	7.37	97	3
Rice (Milled)	530,887	830,126.75	118,547	67.82	1,479,493		69,015.26			1,410,477	47.63	469.76	8.74	0.91	39	61
Millet	181,564	1,264.35	15,964	28.16	198,764		23,603.36			175,161	5.91	55.10	1.57	0.49	99	1
Sorghum	316,236	31.94	26,644	0.35	342,912		41,110.69			301,801	10.19	95.77	2.82	0.92	100	
Wheat	0	715,027.04	78,075	94,443.69	698,658					698,658	23.59	215.88	7.89	1.49	0	115
Starchy Staples	34,784,043	0	0	17,829	34,766,214					34,766,214					100	
Cassava	20,845,960	0	0		20,845,960		6,253,787.99			14,592,172	492.74	1,471.47	12.15	2.70	100	
Yam	7,788,866	0	0	17,278.74	7,771,587		1,557,773.20			6,213,814	209.82	580.61	7.47	1.15	100	
Cocoyam	1,460,938	0	0	367.73	1,460,571		73,046.92			1,387,524	46.85	110.39	1.93	0.26	100	
Plantain	4,688,279	0	0	182.54	4,688,096		703,241.83			3,984,855	134.56	276.49	2.95	1.11	100	
Legumes	934,741	0	0	121	934,620					934,620					100	
Groundnuts	521,032	0	0	15.80	521,016		52,103.21			468,913	15.83	245.97	11.15	21.34	100	
Cowpea	237,037	0	0		237,037		35,555.61			201,482	6.80	63.75	4.36	0.34	100	
Soya bean	176,672	0	0	105.39	176,566		26,500.78			150,066	5.07	46.51	5.28	2.50	100	

Source: SRID, MoFA

Notes: Estimated Population for 2018 = 29.61 m (Source: Ghana Statistical Service, population projections).

***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, soyabean and cowpea. Livestock feed, wastage and seed account for the discount.**

Milled rice is 69% of the paddy.

Table 4.10: Production of Industrial Crops, (Mt)

Year	Cocoa ¹	Coffee ¹	Rubber	Oil Palm ²
2007/08	680,781	2,024	14,132	1,896,760
2008/09	710,642	516	19,134	2,103,600
2009/10	632,037	4,082	n.a.	2,004,300
2010/11	1,024,554	9035	n.a.	2,125,645
2011/12	879,348	48,517	n.a.	2,196,098
2012/13	835,466	43,931	n.a.	2,334,400
2013/14	896,220	45,093	n.a.	2,451,130
2014/15	740,254	42,230	n.a.	2,529,513
2015/16	778,043	n.a	n.a	n.a
2016/17	969,500	n.a	n.a	n.a
2017/18	904,790	n.a	n.a	n.a
2018/19	919,577	n.a	n.a	n.a

Sources: 1. COCOBOD; Research Dept, BoG (2019) 2. Oil Palm Companies (GOPDC, TOPP, BOPP, NOPL) and Individual (2007-2018) Plantations
n.a.: Not Available

4.2: Livestock Sub-sector

Table 4.11: Trend of Livestock Population ('000)

Type of Livestock	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Cattle	1,438	1,454	1,498	1,543	1,590	1,657	1,734	1,815	1,901	1,943
Sheep	3,642	3,759	3,887	4,019	4,156	4,335	4,522	4,744	4,978	5,102
Goats	4,625	4,855	5,137	5,435	5751	6,044	6,352	6,740	7,151	7,366
Pigs	521	536	568	602	638	682	730	777	816	845
Poultry	43,320	47,752	52,575	57,885	63,732	68,511	71,594	73,885	75,363	76,870

Source: SRID/MoFA projections

Table 4.12: Livestock Slaughter Summary (Numbers)

Type of Livestock	2010	2011	2012	2013	2014	2015	2016	2017	2018	(%)Change (2018/2017)
Cattle	233,491	202,104	220,446	200,819	164,554	141,144	116,056	129,694	122,083	-5.87
Sheep	66,754	73,159	90,656	68,344	64,594	47,546	42,138	47,960	49,291	2.78
Goats	104,425	108,826	140,914	118,623	129,073	76,531	67,390	74,101	78,366	5.76
Pigs	18,196	20,086	23,608	24,062	21,735	13,618	11,923	13,195	15,648	18.59
Other	3,421	3,705	5,521	2,824	4,102	3,045	5,513	4,746	2,130	-55.12
Total (All Livestock)	426,287	407,880	481,145	414,672	384,058	281,884	243,020	269,696	267,518	-0.81

Source: Veterinary Services Directorate, MoFA, Accra

Table 4.13: Live Animal Imports by Species

Year	Cattle	Sheep	Goats	Total	*Share of Total Imports		
					Cattle	Sheep	Goats
2008	1,081	1,401	1,514	3,996	27.1%	35.1%	37.9%
2009	10,119	4,987	6,098	21,204	47.7%	23.5%	28.8%
2010	11,389	4,843	3,711	19,943	57.1%	24.3%	18.6%
2011	9,384	2,835	2,495	14,714	63.8%	19.3%	17.0%
2012	23,622	9,840	10,008	43,470	54.3%	22.6%	23.0%
2013	21,131	16,738	16,953	54,822	38.5%	30.5%	30.9%
2014	20,948	22,188	32,012	75,148	27.9%	29.5%	42.6%
2015	17,968	15,763	20,004	53,735	33.4%	29.3%	37.2%
2016	23,575	13,854	16,900	54,329	43.4%	25.5%	31.1%
2017	32,249	47,526	46,665	126,440	25.5%	37.6%	36.9%
2018	54,566	65,950	97,703	218,219	25.0%	30.2%	44.8%

Source: Veterinary Services Directorate, MoFA

*SRID, MoFA, (Computed)

Table 4.14: Importation of Day Old Chicks and Parent Stock (Numbers)

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
2016	784,917	3,963,705	13,412	158,386
2017	724,580	5,476,815	14,945	86,099
2018	511,960	7,130,999	41,189	101,871

Source: Veterinary Services Directorate, MoFA

Table 4.15: Weight/Volume (Mt) and Value (GH¢ & US\$) of Imports of Frozen Meat by Category

TABLE 4.15.a: Volume/Weight (Mt) of Meat Imports by Category								
	2014	2015	2016	2017	2018			
	WEIGHT (MT)	WEIGHT (MT)	WEIGHT (MT)	WEIGHT (MT)	WEIGHT (MT)	5-YR GRAND TOT	SHARE BY CAT OF TOT (2014-2018) IMP VOL	ANNUAL AVG IMPORT (MT)
POULTRY*	108,967.43	121,861.27	96,975.25	151,346.27	204,754.83	683,905.05	77.90%	136,781.01
PORK (SWINE)	4,689.24	6,972.42	8,271.47	5,722.35	3,082.25	28,737.73	3.27%	5,747.55
BOVINE (CATTLE)	27,263.32	32,137.08	26,268.49	28,955.00	30,450.20	145,074.09	16.52%	29,014.82
SMALL RUMINANTS (SHEEP+GOATS)	3,393.79	3,715.35	4,521.73	3,684.59	3,541.33	18,856.79	2.15%	3,771.36
OTHER**	380.26	423.45	544.02	-	43.39	1,391.12	0.16%	347.78
TOTAL (ALL CATEGORY)	144,694.04	165,109.57	136,580.96	189,708.21	241,872.00	877,964.78		175,592.96
CONTRIBUTION (ALL CAT) TO G/TOT BY YEAR	16.48%	18.81%	15.56%	21.61%	27.55%			

Source of import data (Wt & Value): Ghana Statistical Service (GSS)

***Poultry:**

Chicken accounts for over 97 percent of poultry imports

Turkey meat: 2.9 percent

Other: 0.03 percent

(Other: ducks, geese, guinea fowls)

Table 4.15.b: Value (GH¢) of Meat Imports by Category

	2014	2015	2016	2017	2018	Total (2014-2018)	ANNUAL AVG
	VALUE (GH¢)	VALUE (GH¢)	VALUE (GH¢)	VALUE (GH¢)	VALUE (GH¢)		(GH¢)
POULTRY	345,619,376.84	346,356,276.80	422,068,819.88	536,346,193.98	596,318,035.81	2,246,708,703.31	449,341,740.66
PORK (SWINE)	10,055,383.27	18,985,366.92	22,062,256.58	20,155,125.25	12,966,671.37	84,224,803.39	16,844,960.68
BOVINE (CATTLE)	89,395,945.44	114,826,209.92	88,202,324.48	109,868,115.74	111,993,023.65	514,285,619.23	102,857,123.85
SMALL RUMINANTS (SHEEP+GOATS)						70,018,184.28	14,003,636.86
	13,156,286.60	14,756,160.26	14,015,913.86	14,064,590.81	14,025,232.75		
OTHER	1,338,944.70	1,784,063.98	1,738,852.28	-	196,227.41	5,058,088.37	1,264,522.09
TOTAL (ALL CATEGORY)	459,565,936.85	496,708,077.88	548,088,167.08	680,434,025.78	735,499,190.99	2,920,295,398.58	584,059,079.72
SHARE (ALL CAT) BY YEAR	15.74%	17.01%	18.77%	23.30%	25.19%		
ANNUAL CHANGE (VARIATION)		8.08%	10.34%	24.15%	8.09%		

Table 4.15.c: Value (US\$)² of Meat Imports by Category

	2014	2015	2016	2017	2018		
	VALUE (US\$)	VALUE (US\$)	VALUE (US\$)	VALUE (US\$)	VALUE (US\$)	Total (2014-2018)	ANNUAL AVG (US\$)
POULTRY	117,739,827.57	91,710,124.33	107,653,453.18	123,121,548.58	130,049,240.96	570,274,194.62	114,054,838.92
PORK (SWINE)	3,425,499.76	5,027,050.11	5,627,229.48	4,626,732.25	2,827,863.10	21,534,374.70	4,306,874.94
BOVINE (CATTLE)	30,453,915.22	30,404,316.87	22,497,006.08	25,220,897.81	24,424,228.09	133,000,364.07	26,600,072.81
SMALL RUMINANTS (SHEEP+GOATS)	4,481,863.63	3,907,217.46	3,574,918.25	3,228,612.83	3,058,721.63	18,251,333.79	3,650,266.76
OTHER	456,129.28	472,394.30	443,514.05	-	42,794.66	1,414,832.29	282,966.46
TOTAL EXPENDITURE (US\$)	156,557,235.47	131,521,103.06	139,796,121.05	156,197,791.47	160,402,848.43	744,475,099.48	148,895,019.90
SHARE (ALL CAT) BY YEAR	21.03%	17.67%	18.78%	20.98%	21.55%		
ANNUAL CHANGE (VARIATION)		-15.99%	6.29%	11.73%	2.69%		

² See appendix 28 for exchange rate; US dollar/Ghana cedi (US\$/GH¢) equivalent

Table 4.16: Meat Production (Mt)

Type of Livestock	Domestic Meat Production									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Cattle	19,773	19,993	20,592	21,221	21,863	22,781	23,841	24,961	26,134	26,716
Sheep	16,389	16,916	17,491	18,087	18,703	19,507	20,347	21,349	22,399	22,959
Goats	18,315	19,226	20,341	21,198	22,429	23,573	24,774	26,285	27,889	28,727
Pigs	17,506	18,010	19,072	20,224	21,432	22,932	24,513	26,107	27,412	28,392
Poultry	33,790	37,247	41,008	46,308	50,985	54,809	57,276	59,108	60,291	61,496
Total	105,772	111,390	118,504	127,038	135,412	143,603	150,751	157,810	164,124	168,291

Source: SRID, (Estimated from Table 4.11 based on information and criteria in Appendix 14)

4.3: Fisheries Sub-Sector

Table 4.17: Annual Fish Production by Source (Mt)

Source	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Marine	326,111	309,558	326,545	333,697	314,868	289,147	320,221	328,541	342,427	294,240
Inland	70,898	83,127	95,353	95,000	86,741	85,383	86,268	84,345	76,753	73,628
Total	397,009	392,685	421,898	428,697	401,609	374,530	398,803	412,886	419,181	367,868

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

Table 4.18: Annual Aquaculture Production (Mt)

Year	Production
2009	7,500
2010	10,200
2011	19,092
2012	27,451
2013	32,512
2014	38,547
2015	44,515
2016	52,470
2017	60,000
2018	76,620

Source: Min. of Fisheries and Aquaculture Development (MoFAD)

Figure 6: Aquaculture Production

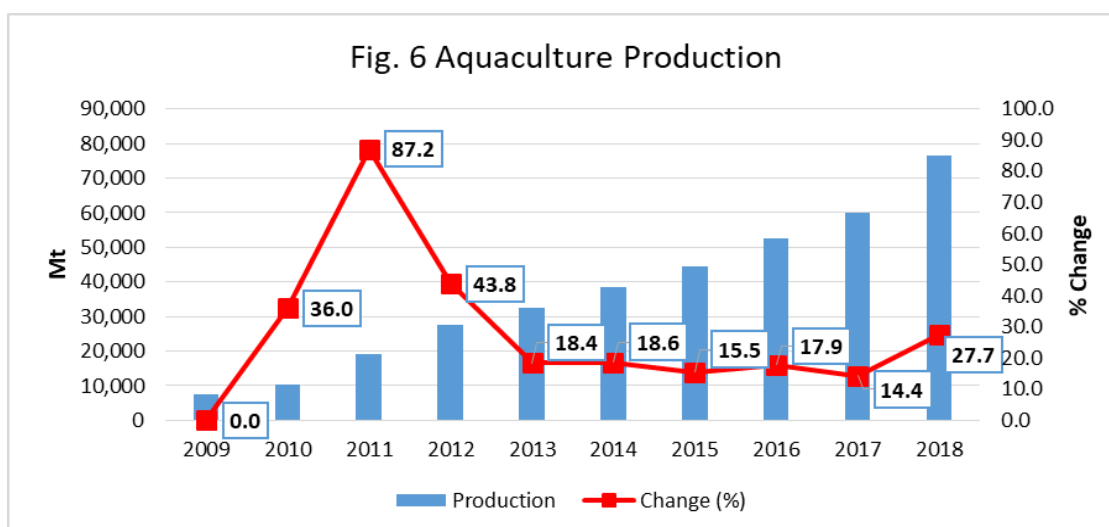


Table 4.19: Fish Imports and Exports (Mt)

Category	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total Fish Imports	170,744	199,799	191,429	181,825	150,701	145,910	180,802	192,131	197,063	192,690
Total Fish Exports	57,621	62,750	44,145	46,234	37,617	57,358	53,750	53,100	48,767	73,622

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

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	Manufac- -turing	Construc- -tion	Elec- -tricity Gas & Water	Import Trade	Export Trade	Commerce & Finance	Trans- -port, Storage & Communi- -cation	Services	Miscella- -neous
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
2016	3.79	2.35	8.18	10.24	15.72	7.49	0.73	16.41	7.15	19.62	8.33
2017	3.79	2.42	8.07	10.96	12.57	6.31	0.79	18.39	8.45	18.80	9.46
2018	4.17	3.17	9.34	10.47	8.30	5.27	0.78	17.72	9.94	20.74	10.11

Source: Ghana Statistical Service; Quarterly Digest of Statistics (Bank of Ghana).
Figures from 2013 to 2018 for Transport & Communication includes storage.

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

End of Period	Agriculture, Forestry & Fishing	Export Sector	Manufacturing Sector
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
2016	18.15 – 47.84	18.15 – 47.84	18.15 – 47.84
2017	17.43 – 45.46	17.43 – 45.46	17.43 – 45.46
2018	15.47 – 39.97	15.47 – 39.97	15.47 – 39.97

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

Table 5.3: Basic Information on Banks in Ghana as at December, 2018

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	First Atlantic Bank Ltd.	1995	16	Greater Accra, and Ashanti Region
12	FBN Bank (Ghana) Ltd. (Formerly International Commercial Bank Ltd.)	1996	18	Greater Accra, Western, Central, Ashanti, Brong Ahafo
13	Stanbic Bank Ghana Ltd.	1999	36	All except Eastern
14	Bank of Africa (Ghana) Ltd (Formerly Amalgamated Bank Ltd.)	1999	20	Greater Accra, Western, Ashanti, Northern
15	First National Bank (Ghana) Limited	2015	7	Greater Accra
16	ARB Apex Bank	2001	11	All Regions
17	Republic (HFC Bank (Ghana) Ltd.)	2003	43	All except Upper West & Volta
18	United Bank of Africa (Ghana) Ltd.	2004	25	Greater Accra, Western, Volta, Ashanti
19	Guaranty Trust Bank (Ghana) Ltd.	2005	33	All except Eastern, Upper East, Upper West
20	Zenith Bank (Ghana) Ltd	2005	24	All except Upper East, Upper West & Volta
21	Fidelity Bank (Ghana) Ltd.	2006	74	All except Upper West
22	Access Bank Ghana Ltd.(Formerly Intercontinental Bank Ltd.)	2006	37	Except Eastern, Upper East and Upper West
23	Sahel Sahara Bank(BSIC))	2008	16	Greater Accra, Ashanti, Western, Central, Brong Ahafo, Northern
24	Energy Commercial Bank (Ghana) Ltd.	2011	11	Greater Accra, Western, Ashanti and Northern
25	Premium Bank Limited	2016	7	Greater Accra, Western
26	OmniBank Ghana Limited	n.a	29	Greater Accra, Ashanti, Western, Eastern, Central, Brong Ahafo
27	Heritage Bank Limited	n.a	n.a	n.a
28	GHL Bank Limited	n.a	n.a	n.a
29	Sovereign Bank Ghana	n.a	n.a	n.a
30	Construction Bank Ghana Limited	n.a	n.a	n.a
31	Beige Bank Limited	n.a	n.a	n.a
32	The Royal Bank limited	n.a	n.a	n.a
33	UniBank Ghana Limited	n.a	n.a	n.a
34	BSIC Ghana Limited	n.a	n.a	n.a

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 settings 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, 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 services
n.a – not available - (most of these banks (n.a.) have now been closed down by BOG).

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	sridir@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	Cridirector@yahoo.com hadapaah@yahoo.com cri@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 (BNARI)	Kwabena, 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

Source: Compiled by SRID, 2018

5.3 Staffing Levels of MoFA

Table 5.5 shows the staffing levels of the Ministry of Food and Agriculture, by category, for the past ten-years- 2009 to 2018. As indicated, the staff levels declined sharply from 2014 onwards and this was on account of the implementation of the legislative instrument 1961 which requires that Regional and District Development Units (of MoFA) be ceded off to the Local Government Service. The impact of this is a significant downsize of the Ministry, as over 76 percent of MoFA staff have now been moved to the Local Government Service.

Table 5.5: Staffing Levels of MoFA by Category

Category of Staff	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Professional	1,099	1,362	1,362	1,362	1,335	319	368	357	357	302
Sub-Professional	579	530	530	530	456	94	160	109	109	97
Technical	2,757	3,385	3,385	3,385	2,773	497	565	633	633	371
Support Staff	2,168	2,376	2,376	2,376	1,945	657	659	576	576	621
Total	6,603	7,653	7,653	7,653	6,509	1,570	1,752	1,675	1,675	1,391

Source: Human Resource Development and Management Directorate (HRDMD), MoFA, 2017.

5.4 Agricultural Mechanization

Table 5.6 presents the quantities and types/models of agricultural machinery and equipment imported on annual basis (between 2008 and 2015).

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
2010	Foton maize/rice combine harvester	10
	China run Yuan Gin Ying Combine Harvester	10
	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

Year	Importation	
	Make/ Model	Qty. Imported (Units)
2012/2013	Cabrio compact tractors and matching implements	100
Japanese Grant Assistance-2KR programme		
2007	Power tillers	100
	Kubota tractors	78
2008	Water pumps	16
	Rice Mills	20
2010	Tractor and matching implements	125
	Combine harvester	2
2011	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 – 2018) (Ha)

Formal Irrigation	2010	2011	2012	2013	2014	2015	2016	2017	2018
<i>Scheme/Project</i>									
Existing Irrigation Schemes	10,127	10,668	10,668	28,304	29,504	11,000	17,292	12,003	12,978
Additional Area after Rehabilitation	500	481	481	0	0	0	0	0	0
Small Scale Irrigation Development Project	1,682	0	0	0	0	0	0	0	0
Small Farms Irrigation Project MCA*	324	110	110	0	0	0	0	0	0
		450	450	0	0	0	1,500	0	0
Sub-Total	12,633	11,709	11,709	28,304	29,504	11,000	18,792	12,003	12,978
Informal Irrigation (Smallholder)	-	-	-	-	-	189,000	189,000	189,000	189,000
Large Scale Commercial	17,636	17,636	17,636	17,636	17,636	21,000	21,000	21,000	21,000
Grand Total	30,269	29,345	29,345	45,940	47,140	221,000	228,792	222,003	222,978

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)

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
10	The Managing Director, Agric. Machinery Operators Association	Ho	P.O. Box 245, Ho, VR. Tel: 020-9026012	Volta
11	Tropical Agricultural Marketing and Consultancy Services (Sunflower Ghana Ltd.) TRAGRIMACS (Issah Sulemana)	Sogakope/Akatsi	P.O. Box AD 464, Adabraka, Accra. Tel. 0208135861	Volta
12	Addicent Foods Ltd. (M. Nttorinkansah)	North Tongu District, V/R	P.O.Box BT 300, Com. 2 Tema Tel. 0244378522	Volta
13	Ghana-Cuba Agric Services Ltd (Larry Farms Ltd)	Hohoe	P. O. Box 17463, Accra Central. (P. O. Box CT7021, Accra) Tel: 0244379378	Volta
14	Adidome Mechanisation Centre (Mr. Kudzo Agbo)	Adidome	P. O. Box 16, Adidome. Tel: 0243216907	Volta
15	Reddekopp Ministries	Ho-Adaklu	Box HP 1011, Ho. Tel: 0248329718	Volta
16	The Manager, Community Relief (Dickson Degbor)	Sogakope	P. Box SK 2, Sogakope Tel: 0243133261, 020 4702597	Volta
17	Mr. Joe Gidisu,	North Tongu	P. O. Box 18, Adidome, V/R Tel: 0243216907, 0248511817	Volta
18	S&K Agroservices Providers Ltd,	Sogakope, SouthTongu	P. O. Box SR 140 Tema, tel: 0244841896, 0276254935	
19	Mafi-Akyemfo Mech. Centre.	Mafi-Akyemfo, NorthTongu	P. O. Box 18, Adidome. Tel:	

No.	Name of Individual/ organisation	Location	Address / Tel	Region
			0243-216907, 0248-511817	
20	The Managing Director, Ademec Ltd.	Donkorkrom	P.O. Box AN 10576. Accra- North. Tel: 0202-8155224, 0244-635221	Eastern
21	The Managing Director, Agric Mechanisation & Inputs Ltd,	Nsawam/ Amasaman	P.O. Box 106, Nsawam. Tel: 0244-232287	Eastern
22	The Managing Director, Nomafo farms & Services,	Asutsuare	P. O. Box 522, Tema. Tel: 0244-622105	Eastern
23	ELFA Enterprise (Victor Aglieko)	Fanteakwa (Begoro), E/R	P.O.Box KB 170, Korle-Bu, Accra, Tel.233242167603	Eastern
24	AA Farms (Alex Adeti)	Mame Krobo Afram Plains	Box AC156, Accra 0244959132	Eastern
25	Unkar Limited (Alex Anane- Darko)	Manya-Krobo, E/R	P.O. Box GP4927, Accra, Tel.0246584081	Eastern
26	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
27	Kwasamay Ltd. (Nana Ackah- Yensu)	Afram Plains Donkorkrom	P.O Box CT 419 Cantoments, Accra Tel. 0244291878	Eastern
28	Mr. Theophilus Asante-Darko	Manya-Krobo, E/R	P. O. Box 521, Accra 0246355366	Eastern
29	Afram Plains Tractor Owners and Farmers Association	Afram Plains	% P.O. Box 20, Afram Plains	Eastern
30	The Managing Director, Royal River Agro Estates Ltd.	Asuogyaman	P. O. Box 15649, Accra North	Eastern
31	Woodland Mechanical Company (Gibson Ankromah)	Sekyere East, Kumawu	P. O. Box AM 176, Amasaman, Accra. Tel. 0207860227/ 0208494736	Ashanti
32	P.N. Industries Ltd (K.N. Poku)	Ejura, A/R	P.O. Box 567 KNUST, Kumasi Tel: 0277454547	Ashanti
33	CEO, Baribon Ltd	Offinso, District	Box AN 11267, Accra. tel 024- 2563557	Ashanti
34	Manager, Clear Farms Ltd	Agogo-Ashante Akim North	P. O. Box 550, Accra. Tel; 024- 9959643, 027-2922359	Ashanti
35	The Chairman, Nso Nyame Ye Women's Group ,	Ejura, A/R	C/o Ejura District Assembly, Box 9, Ejura. Tel: 020-8180485	Ashanti
36	The Managing Director., Faby (Celvic) Ventures Ltd,	Atebubu	Box DS 488, Accra. Tel: 020- 8133297, 0244-3508156	Brong Ahafo
37	The MD, Consortium	Wenchi	C/o Methodist University, Wenchi Tel: 021-314542, 0204426114	Brong Ahafo
38	Out of Bounds Incorporated (Daniel Opoku)	Tano Obuasi, BAR	Box KA 310522 Accra. Tel: 024-4318342	Brong Ahafo
39	GUMBIANI FARMS LTD (Mohamed Moro)	Amatin, (Brong-Ahafo), B/A	P.O. Box 5, Amantin, Tel. 0244-076941	Brong Ahafo

No.	Name of Individual/organisation	Location	Address / Tel	Region
40	Kodom Farms (Yaw Kodom)	Nkoransa (Brong Ahafo), B/A	P.O.Box 190, Nkoransa, Tel.0208877301/0244896837	Brong Ahafo
41	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
42	Kobbiman Farm Ltd	Nkoranza	P.O. Box 16 Nkoranza Tel. 0244310534	Brong Ahafo
43	Amobaff Ent.	Kintampo	C/o Mr. Amoo Baffoe, P. O. Box M37 Accra Tel 0242675595	Brong Ahafo
44	Tuobodum Unity Cooperation Tomato growers & mkting Society	Tuobodum	P. O. Box 8, Techiman Tel: 0244590427	Brong Ahafo
45	Buwa Ltd	Kintampo – North	Tel: 0244370230	Brong Ahafo
46	Methodist University college (Principal)	Wenchi	Methodist University College, Wenchi	Brong Ahafo
47	Ghana Nuts LTD	Techiman	P.O. Box 825	Brong Ahafo
48	Sofo-Fatao Enterprise,	Nante-Kintampo	P.O. Box 14, Nante-Kintampo, Brong Ahafo. Tel: 0246661959, 0203858130	Brong Ahafo
49	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
50	The Managing Director, Global Al-mas Ltd,	Bimbilla	P. O. Box 57, Bimbilla. Tel: 0244-177050, 021-517815, 071-25984	Northern
51	Sakfos Farms (Sakara Asumah Rennie)	West Gonja (Damango), N/R	P.O. Box DM 111, Navrongo Tel: 024 3523848	Northern
52	Green Planet Ltd. (A. Ayariga)	Tamale, NR	P.O. Box 100, Tamale. Tel: 024 8140000	Northern
53	Sakpe Agricultural Ent. (Ibrahim Adam Fawzy Momoa).	Central Gonja, N/R	P.O. Box CT 5577, Cantoments Accra Tel.	Northern
54	Kukurdama Enterprise (Alhaji Yusuf Salifu Abdella).	Bimbilla, N/R	P.O. Box 1104, Tamale	Northern
55	Bosbbel Kofi Ansah	Tamale, NR	P. O. Box 279,Tamale 07123342, 0244864799	Northern
56	Laangu Farmers Ass. Janga Walewale West Mamprusi	Janga, Walewale	C/o MOFA P.O.Box 4 Walewale	Northern
57	Tijo Farms (Alhaji Ibrahim Adam), Tamale	Tamale	P.O Box 2943 Tamale Tel. 0246847774	Northern
58	Kurbani Farms	Tamale	P.O. Box 65 Tamale Tel. 0244686604	Northern

No.	Name of Individual/ organisation	Location	Address / Tel	Region
59	Dagbon Traditional Council (Attn Alhaji Ibrahim Adam), Yendi	Yendi	Dagbon Traditional Council, Yendi	Northern
60	Sofo Awudu Azoka Group	Tamale	P. O. Box 586, Tamale 0244218296	Northern
61	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
62	MD, Zijaha Gh. Ltd	Tolon/Kumbugu	Box 1519, Tamale Tel; 024- 325-3331, 020-8139652	Northern
63	The Chairman, Tunteya Farming Gp	Zabzugu	Zubzugu District Assembly	Northern
64	Logistics Support Services (Adam Manama)	Bole	Bole District, N/R	Northern
65	Nasara Best Farmers Association	Gushegu	C/o Box GU27, Gushegu 0246733004	Northern
66	AKK Risk Management Consulting Ltd	Yapei	P. O. Box DC579, Dansoman, Accra.	Northern
67	The Municipal Chief Executive,	East Gonja	East Gonja Assembly, P. O. Box 1 Salaga, Tel: 0246753565, 0244868533,	Northern
68	SIMTEX Enterprise	Tamale Central	P. O. Box TML 1354, Tamale tel; 0208154959	Northern
69	Alhaji Mumuni Bolnaba,	Bawku Central	Bonaba Const. Ltd, Box 115, Bawku Tel: 026749019, 0244022425	Northern
70	Hon. Fuseini Alhassan	Gushegu	% Gushegu District Assembly, P.O. Box GU 1	Northern
71	Hon. Alhaji Abdulkarim Iddrisu	Savelugu Nanton	MP, Nanton Constituency, 0243665642	Northern
72	The Manager Agro Concepts Limited	East mamprusi (Gambaga)	P.O. Box 1 Gambaga	Northern
73	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
74	Gbewaa Farmers association, % Abubakari Immururana,	Tamale	P.O. Box 1967, Tamale. Tel: 0268587103,0243253331,024 4704291	Northern
75	Savanna Agric. & Trading Co. Ltd.,	Chereponi	P.O. Box DS 689, Dansoman, Accra.	Northern
76	Mion District Assembly, Mion	Mion	C/o Office Of the Member of Parliament, Accra. Tel: 0244838977	Northern
77	Kpangmanga Co-operative Food Farming and Marketing	Nayugu-Gushegu	House No. G 103, Gushegu. Tel: 0243453492	Northern

No.	Name of Individual/ organisation	Location	Address / Tel	Region
	Society Ltd.			
78	The President, National Farmers & Fishermen Ward Winners Assoc.,	Fumbisi Valley	Box KD 537, Kanda Accra. Tel: 021-222455, 0244-364440	Upper East
79	Goodman & Sons Ltd,	Navrongo	P. O Box 287, Tamale	Upper East
79	Irrigation Farmers Association (Ahmed Bogobiri),	Tono, Kasena Nanakani , UER	Tono cooperative Union, C/o Icour Limited, Box 70, Navrongo	Upper East
80	The Manager, Dolidona Ent	Bolgatanga	P.O. Box 1 Bolgatanga Tel: 0208336643	Upper East
81	Hon. Mahama Ayariga,	Bawku	Office of the President, Accra. Tel: 020 6662337	Upper East
82	Yelsumde Farms Ltd. Zongoyire,	Bawku West	P.O. Box ZE 27, Bawku. Tel: 024 4409331, 024 4216591	Upper East
83	Bonaba Construction Ltd.	Pusiga	P. O. Box 115, Bawku Tel: 0244-022425	Upper East
84	The Managing Director, Nyivori-Tona Co. Ltd,	Wa	P.O. Box SR 326, Accra. Tel: 027-4523443	Upper West
85	Cashew Farmers Association Wigbert Y. Dogoli	Nandowli District, UW	C/O CWSA Box 810 Tamale	Upper West
86	MCE, Wa Municipal Assembly	Wa	Wa Municipal Assembly, Wa	Upper West
87	DCE, Wa West District Assembly	Wa	Wa West District Assesmbly	Upper West
88	DCE, Wa East District Assembly	Wa	Wa East District Assembly	Upper West
89	DCE, Jirapa District Assembly	Jirapa	Jirapa District Assembly	Upper West
90	DCE, Sisala District Assembly	Sisala	Sisala District Assembly	Upper West
91	DCE, Nandowli District Assembly	Nandowli	Nandowli District Assembly	Upper West
92	DCE, Lambussie District Assembly	Lambussie	Lambussie District Assembly	Upper West

SECTION 6: AGRO-PROCESSING FIRMS

Table 6.1: Some Agro-Processing Firms

Manufacturer	Product	Contact	Tel. Numbers
ADDICTIVES			
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
Hirigfred 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
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

Manufacturer	Product	Contact	Tel. Numbers
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
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
Mawuuwoe Co-Operative Rice	Forhon Tombrown	P. O. BOX 124 , Hohoe V/R	0541015727

Manufacturer	Product	Contact	Tel. Numbers
Processors and Marketing Society Limited, Hohoe			
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 Chocolate 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 (Liquor, 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 Chocolate 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			

Manufacturer	Product	Contact	Tel. Numbers
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 1756641
Silbest Ghana Ltd. Makola, Accra.	Silbest Yoghurt	P. O. BOX DM 120 Makola, 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) Frosty Bite Fantsdy Vanilla Ice Cream Frostyb Bite Fantasy Vanilla Ice Cream	P. O. BOX AT 1107, Achimota Accra	0244 894703
Denew Enterprise. Ashiaman, G/R	Denew Yoghurt	P. O Box AT 1107, Achimota Accra	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	P. O. BOX DM 120 Makola, Accra.	0268 861587

Manufacturer	Product	Contact	Tel. Numbers
	Silbest Natural Coconut Juice		
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 Junction, E/R	Hengra Fruit Juice (Pineapple, Cocktail)	P. O. BOX KF K90, Koforidua	0245 799700
1 Africa Industries Ltd., Accra, G/R	Fire Ginger Spice Gin	P. O. BOX SR-240, Spintex Rd, Accra	0509 225585
C. Dadzie Ent., Mankessim, C/R.	Adom Cocoa Drink	P. O. BOX 114, Sekondi	0267 258974
Chrislaw 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 & OILS			
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
Ampet Ent., Accra, G/R	Ampet 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
Dali Industrial Company Limited, Tema, G/R	Dali Soyabean Oil	P. O. BOX SQ `175, Tema, G/R	0244275608

Manufacturer	Product	Contact	Tel. Numbers
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	P. O. BOX CT 20, Cantonments- Accra	0244 737166

Manufacturer	Product	Contact	Tel. Numbers
	Pork Rashers) Master Meat Smoked Porks Sausage Master Meats Cooked Salami Master Meats French Polony		
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 I Ent., Kumasi, A/R	Casso Foods Plantain Chips	P. O. BOX SE 2627	0243 320577
OXY Industries Ltd., Tema, G/R	Oxy's Gari	P. O. BOX CO 3180, Community 1, Tema	0244 374071
Food Research Institute 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 African 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 Plantain Fufu Flour	P. O. Box 16810 Accra-North	0244 376747
Amab Fine Snacks, Tema G/R	Kele Plantain Chips	P. O. Box 11550, Tema	0267 110726
Snack Treats Enterprise, Accra	Snack Treats Plantain Chips (Plantain Chips, Plantain 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 Plantain 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

Manufacturer	Product	Contact	Tel. Numbers
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
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

Manufacturer	Product	Contact	Tel. Numbers
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 LTD ,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
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 Institute 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 of Selected Crops

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

CROPS	2012	2013	2014	2015	2016	2017	2018
Cassava	336.81	499.65	440.37	526.86	1328.3	1086.31	1084.24
Yam	456.17	907.92	942.78	1220.63	1592.57	1933.04	1753.10
Plantain	764.92	900.84	1001.42	1086.45	2521.77	2275.44	1941.21
Cocoyam	836.90	1074.27	1221.21	1215.80	2026.24	2154.29	1444.64
Maize	870.27	741.01	1066.56	1421.69	1423.22	1353.00	1438.07
Sorghum	974.67	1094.94	1325.22	1413.76	1442.01	1826.55	2023.80
Groundnut	3074.69	3120.04	3646.70	4879.15	4985.65	4516.16	4640.42
Millet	1052.68	1439.40	1616.73	897.05	1889.19	2251.99	2732.91
Rice	1434.91	1660.80	2223.25	2657.21	4209.04	4024.91	3315.98
Tomato	2573.74	3305.37	4253.09	5246.83	5159.01	2650.96	4606.79

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

Table 7.2: Annual Real Average Rural Wholesale Prices (GH¢ Per Mt)

Crop	2012	2013	2014	2015	2016	2017	2018
Cassava	106.1	465.65	384.26	348.89	348.89	564.08	495.20
Yam	143.7	846.15	822.67	808.31	897.73	1,003.76	800.69
Plantain	240.96	839.55	873.84	719.46	1,421.51	1,181.56	886.60
Cocoyam	263.63	1,001.19	1,065.62	805.11	1,142.19	1,118.65	659.81
Maize	274.15	690.59	930.68	941.45	802.27	702.57	656.80
Sorghum	307.03	1,020.45	1,156.39	947.46	812.96	948.46	924.32
Groundnut	968.56	2,907.77	3,182.11	3,231.01	2,810.40	2,345.08	2,119.40
Millet	331.61	1,341.47	1,410.76	594.03	1,064.92	1,169.38	1,248.19
Rice	452.01	1,547.81	1,940.01	1,759.62	2,372.62	2,089.99	1,514.49
Tomato	810.75	3,080.49	3,711.25	3,474.49	2,908.12	2,650.96	2,104.04

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

7.2 National Average Input Prices

Table 7.3: National Average Prices of Selected Agricultural Inputs (GHS)

Input	Unit	2013	2014	2015	2016	2017	2018	% Change				
								2014/2013	2015/2014	2016/2015	2017/2016	2018/2017
NPK	50kg	51.7	80.69	115.17	107.56	112	102.5	56.07	42.73	-6.61	4.13	- 8.48
Sulphate of Ammonia	50kg	47.2	68.19	99.51	92.71	91	91.75	44.47	45.93	-6.83	-1.84	0.82
Urea	50kg	50.6	71.31	104.19	98.71	102	95.06	40.93	46.11	-5.26	3.33	-6.80
Round Up	1 litre	13	14.85	20.54	21.67	21.9	16.49	14.23	38.32	5.5	1.06	- 24.70
Karate	1 litre	9.2	12.73	13.2	14	16.27	21.14	38.37	3.69	6.06	16.21	29.93
Actellic	1 litre	16.3	NA	18.29	23.83	18	31.2	-	-	30.29	-24.46	73.33
Hoe	Single	6.4	6.71	9.09	11.44	12.35	12.84	4.84	35.47	25.85	7.95	3.97
Cutlass	Single	8.3	11.2	16.02	16.98	16.34	17.61	34.94	43.04	5.99	-3.77	7.77
Jute Sack	Single	2.6	2.98	6.54	7	5.26	4.33	14.62	119.46	7.03	-24.86	- 17.68

Source: Statistics, Research and Information Directorate, MoFA

Table 7.4: Cost of Fertilizer Subsidy with Quantity

Year	Total subsidy paid by Government (GH¢'000)	Total Quantity (MT)
2009	34,400	72,795
2010	30,002	91,244
2011	78,746	176,278
2012	117,437	173,755
2013	64,005	166,807
2014*	-	-
2015	44,850	89,200
2016	98,563	134,227
2017	204,767	191,744
2018	331,592	247,039
Total	1,025,016	1,386,265

Source: Directorate of Crops Services –MoFA, 2017

* No fertilizer subsidy scheme

Table 7.5: Full vs.Subsidized Cost of Fertilizer – 2018

Fertilizer Type	Full Cost (GH¢)/50kg	Subsidy payable by Government		Price at which Farmers buy Fertilizer (GH¢)/50kg	Percentage (%) of Subsidy
		(GH¢)/50kg	(GH¢)/50kg		
NPK (23-10-05)	136	68	68	68	50
NPK (15-15-15)	136	68	68	68	50
Urea	126	63	63	63	50
Sulphate of Ammonia (SOA)	-	No subsidy	No subsidy	No subsidy	50

Source: Directorate of Crops Services -MoFA

SECTION 8: AGRICULTURE AND THE NATIONAL ECONOMY

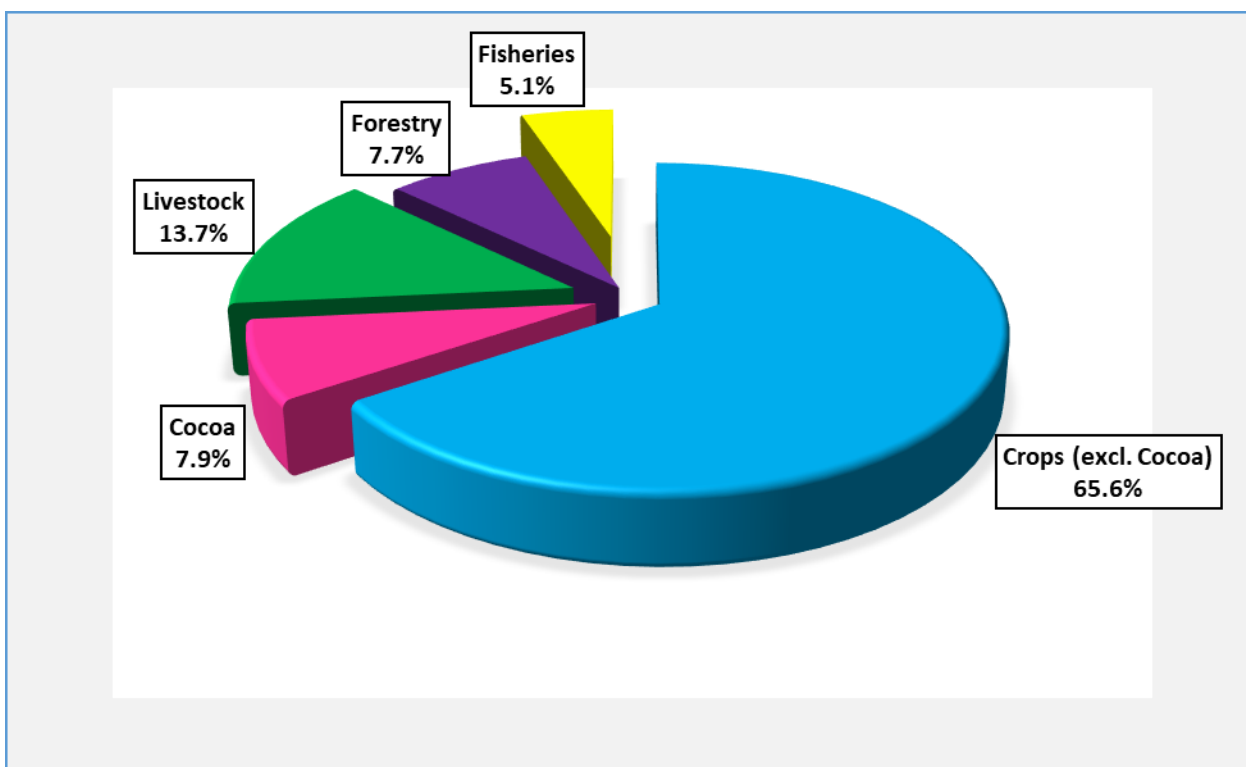
Table 8.1: Contribution of Various Sub-sectors to Agricultural GDP (2013 Prices)

Sub-sector	Contribution to Agric. GDP (%)*					
	2013	2014	2015	2016	2017	2018
1. Crops (excl. Cocoa)	59.6	55.9	57.0	62.9	64.1	65.6
2. Cocoa	7.8	10.5	10.0	8.5	8.3	7.9
3. Livestock	17.2	17.9	16.6	14.5	14.0	13.7
4. Forestry	8.1	9.3	9.5	7.8	8.0	7.7
5. Fisheries	7.2	6.4	7.0	6.3	5.5	5.1

Source: Derived from:- Ghana Statistical Service, 2013 - 2018 Annual GDP, (April, 2019 Edition)

*Provisional estimates, New Series (rebased)

Figure 7: Agricultural GDP (%) by Sub-Sectors– 2018



Source: based on Table 8.1

Table 8.2: Share of Agriculture and Other Sectors in GDP (%)

Year	Sector			GDP at Current Market Prices (GH¢-Million)**
	Agriculture	Service	Industry	
2013	21.7	41.4	36.9	116,847
2014	22.0	39.8	38.1	146,432
2015	22.1	43.2	34.6	175,707
2016	22.7	46.7	30.6	214,050
2017	21.2	46.0	32.7	248,226
2018	19.7	46.3	34.0	289,988

Source: Ghana Statistical Service, 2013 - 2018 Annual GDP, New Series (September, 2019 Edition)

Provisional estimates

**Excluding Oil

Table 8.3: Agriculture and Other Sector GDP* Growth Rates at 2013 constant prices (%)

Year	Sector			
	Agriculture	Services	Industry	National
2013	5.7	10.0	6.6	7.3
2014	0.9	5.4	1.1	2.9
2015	2.3	3.0	1.1	2.2
2016	2.9	2.8	4.3	3.4
2017	6.1	3.3	15.7	8.1
2018	4.8	2.7	10.6	6.3

Source: Ghana Statistical Service, Rebased 2013 - 2018 Annual GDP, New Series (April, 2019 Edition) -

*Provisional estimates

Table 8.4: Growth Rates in Agricultural Sub-Sectors

Year	Sub-sector					National Agric. Real GDP Growth Rate
	Crops	Livestock	Cocoa	Fisheries	Forestry/ Logging	
2013	5.9	5.3	2.6	5.7	4.6	5.7
2014	2.8	5.1	4.3	-23.3	-1.5	0.9
2015	1.7	5.2	-8.0	8.5	-3.9	2.3
2016	2.2	5.4	-7.0	3.1	2.9	2.9
2017	7.2	5.7	9.2	-1.4	3.4	6.1
2018	5.8	5.4	3.7	-6.8	2.4	4.8

Source: Source: Ghana Statistical Service, Rebased 2013 - 2018 Annual GDP, New Series (April, 2019 Edition) - Provisional estimate (at constant 2013 prices).

Table 8.5: Share of Agriculture to Government Budget (Provisional) – (GHS'000)

Item	2016		2017		2018	
	Budget	Actual	Budget	Actual	Budget	Actual
Crops(MOFA)	373,576	227,238	981,255	934,343	936,405	934,015
Fisheries	36,448	7,489	43,383	10,383	57,180	25,632
Feeder Roads	44,315	30,150	126,470	95,382	290,309	141,386
MASLOC	14,360	16,176	111,965	21,205	6,377	6,185
Research	102,363	88,310	121,700	100,185	177,466	153,892
CSIR	97,236	28,154	157,957	35,634	152,412	115,749
Local Governments	171,240	171,240	185,909	174,431	190,000	125,900
SADA	9,284	8,196	2,318	1,715	2,318	1,715
Rural Electrification	-	508,131	-	101,441	-	179,800
Debt Service	2,050	1,099	5,767	4,205	5,767	4,205
Forestry	397,619	133,086	103,077	137,718	140,777	151,673
Cocoa Board	3,264,901	2,797,342	3,504,490	3,440,722	3,387,185	3,646,587
Total Agric Exp	4,513,392	4,016,611	5,344,291	5,057,364	5,346,196	5,486,739
Total Nat Exp	51,998,055	40,930,231	50,363,198	50,251,936	52,599,731	53,141,571
% of Agric/ Nat. Exp		9.81%		10.06%		10.32%

Source: Ministry of Finance and Economic Planning, Ministry of Food and Agriculture, 2018

Table 8.6: Performance of Non-Traditional Agricultural Exports

Items	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total Volume of Non-Traditional Agric. Exports ('000 MT)	293.2	299.5	547.1	553.1	552.4	571.6	670.1	612.2	515.7	620.2
Value of non-traditional agricultural exports in US \$m	150.9	164.9	297	276.4	306.1	340.7	396.9	371.14	441	591
Total Value of all non-traditional Exports US \$b.	1.215	1.629	2.423	2.364	2.436	2.514	2.522	2.463	2.557	2.813
Contribution(%) of non-traditional agricultural exports	12.4	10.1	12.3	11.7	12.6	13.6	15.74	15.07	17.25	21.01

Source: Ghana Export Promotion Council, Accra.

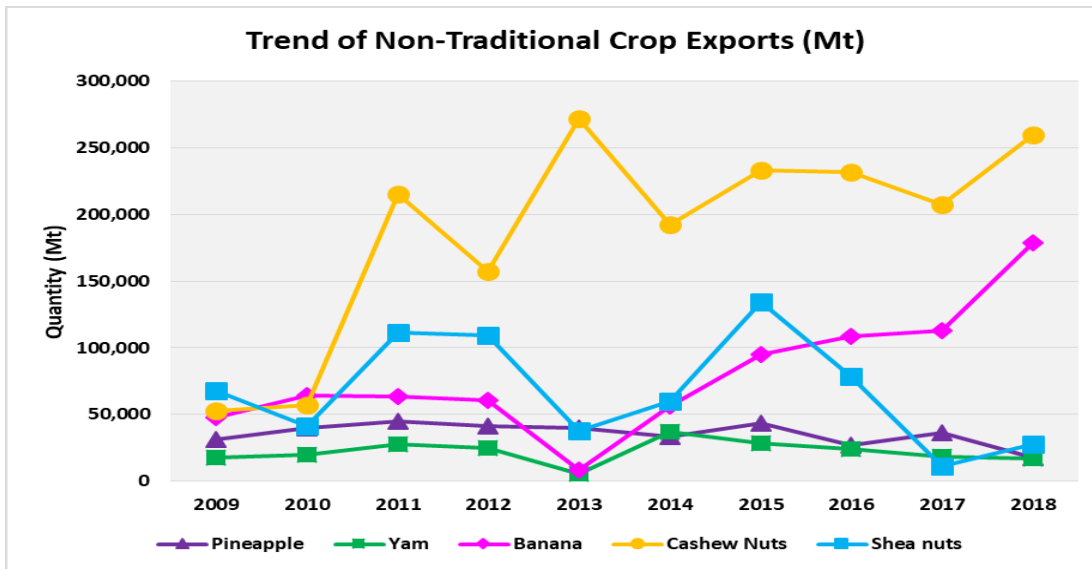
Table 8.7: Volume of Main Non-Traditional Agricultural Exports (Mt.)

Commodity	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	% Change (2018/2017)
Horticultural:											
Pineapple	31,567	40,141	45,057	41,212	40,095	33,634	43,461	27,148	36,331	17,507	-51.8
Yam	17,571	19,485	27,393	25,079	5,230	36,826	28,296	24,105	18,644	17,279	-7.3
Oranges	11,028	10,729	3,812	7,589	8,233	9,025	5,062	6,789	6,059	7,192	18.7
Vegetables	2,342	3,695	11,658	1,960	n.a	870	338	294	580	405	-30.2
Banana	47,613	64,202	63,761	60,425	8,656	56,075	95,180	108,473	112,861	178,903	58.5
Mangoes	435	291	869	1,222	1,789	1,276	2,219	2,122	1,741	2,817	61.8
Pawpaw	891	812	920	426	1,119	1,295	664	520	1,639	1,240	-24.3
Fish & Sea foods:											
Tuna Fish	19,325	20,632	4,707	19,799	6,496	26,820	12,138	26,387	33,167	31,455	-5.2
Other Fish	10,695	4,855	7,972	n.a	7,008	5,792	4,654	8,076	4,695	3,560	-24.2
Lobsters/Shrimps, etc.	18	75	57	18	52	93	27	-	59	55	-6.8
Cuttlefish & Octopus	149	388	560	412	130	556	1,020	5,556	10,546	6,193	-41.3
Processed & Industrial:											
Cashew Nuts	52,965	57,095	215,587	157,176	271,537	192,376	232,835	231,555	207,479	259,432	25.0
Cocoa Products	n.a	n.a	233,730	n.a	n.a	220,308	n.a	261,816	-	-	-
Raw/Lint Cotton	n.a	729	1194	n.a	n.a	2,516	598	1,662	398	n.a	-
Coffee	1,346	1,737	9,035	48,517	918	112	174	538	8	0.1	-98.7
Cotton Seed	1,201	419	3,530	7,077	2,984	509	n.a	n.a	370	42	-88.6
Kola nut	5,182	7,878	1,186	1,758	527	135	n.a	n.a	7,898	2,867	-63.7
Shea nuts	67,826	41,219	111,194	108,976	37,518	59,909	134,651	78,268	10,983	27,967	154.6

Source: Ghana Export Promotion Council (GEPC), Accra

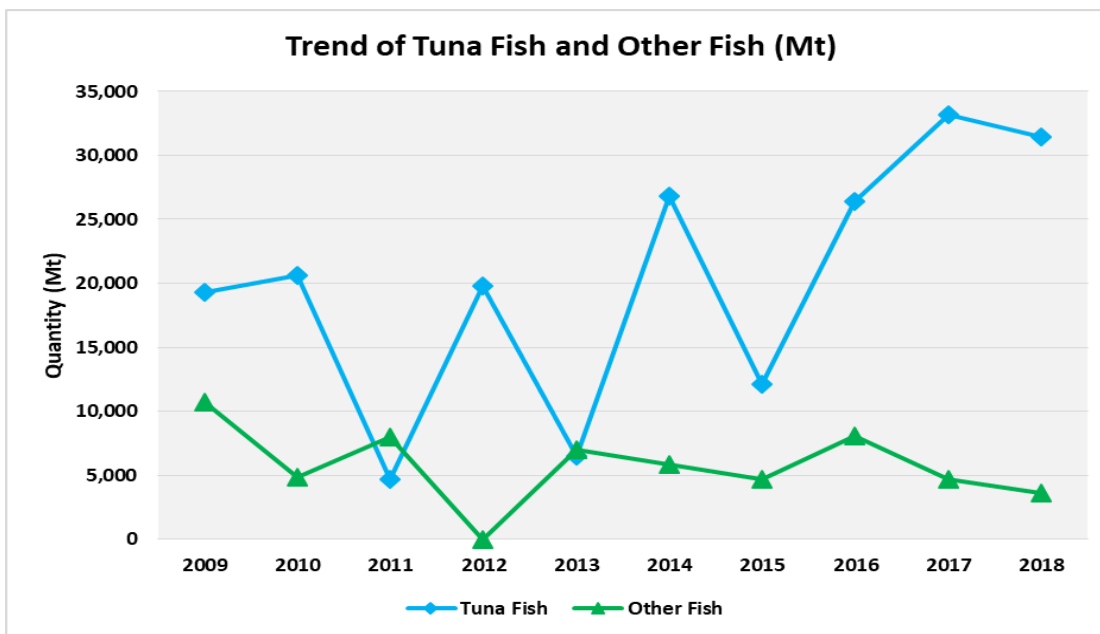
n.a: not available.

Figure 8: Volume Trend of Non-Traditional Crop Exports



Source: Based on Table 8.7

Figure 9: Volume Trend of Fish & Other Non-Traditional Agricultural Exports



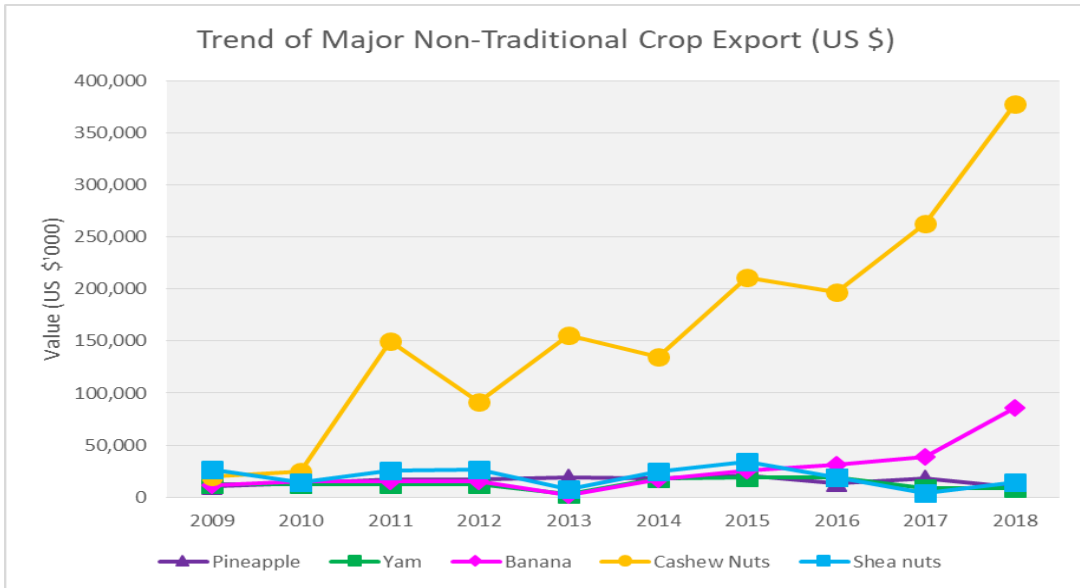
Source: Based on Table 8.7

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

Commodity	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	% Change (2018/2017)
Horticultural:											
Pineapple	10,628	13,555	16,973	16,816	19,209	17,960	20,539	13,727	18,056	9,254	-48.7
Yam	12,032	12,688	12,730	12,251	3,255	18,282	18,980	18,977	8,516	8,621	1.2
Orange (Fresh)	875	654	226	483	534	707	310	341	475	668	40.6
Vegetables	1,362	2,067	3,878	1,215	n.a	705,549	268	275	602	291	-51.7
Banana	11,590	15,533	15,357	15,317	2,287	16,699	25,443	30,853	38,797	85,544	120.5
Mangoes	235	230	2,786	2,689	5,111	6,247	7,618	11,596	10,852	12,946	19.3
Pawpaw	546	971	448	136	713	595	446	343	1,159	906	-21.8
Fish & Sea foods:											
Tuna Fish	27,667	37,421	10,269	44,999	24,390	42,851	27,785	26,374	57,712	44,093	-23.6
Other Fish	19,934	9,062	17,088	13,940	7,696	10,043	3,711	3,111	2,967	1,959	-34.0
Lobsters/Shrimps, etc	49,600	341	289	92	389	952	143	n.a	268	24	-91.0
Processed Tuna	n.a	n.a	220,697	n.a	n.a	n.a	n.a	n.a	n.a	n.a	-
Cuttlefish/Octopus	223	836	4,487	1,455	464	2,476	3,803	4,087	11,447	10,074	-12.0
Processed & Industrial:											
Cashew Nuts	20,154	24,435	149,715	91,290	155,629	134,614	211,328	196,784	262,945	378,210	43.8
Cocoa Products	n.a	n.a	876,278	n.a	n.a	649,997	n.a	543,046	n.a	-	-
Raw/Lint Cotton	n.a	228	253	508	n.a	3,865	864	2,049	664	-	-
Coffee	1,700	1,974	8,980	n.a	4,278	168	570	1,621	66	0.1	-99.8
Cotton Seed	1,106	172	259	970	927	908	n.a	n.a	16	7	-56.3
Kola nut	1,463	1,990	259	393	93	27	n.a	n.a	1,502	553	-63.2
Shea nuts	26,853	13,791	25,087	26,338	8,063	25,046	33,572	19,165	4,027	14,103	250.2

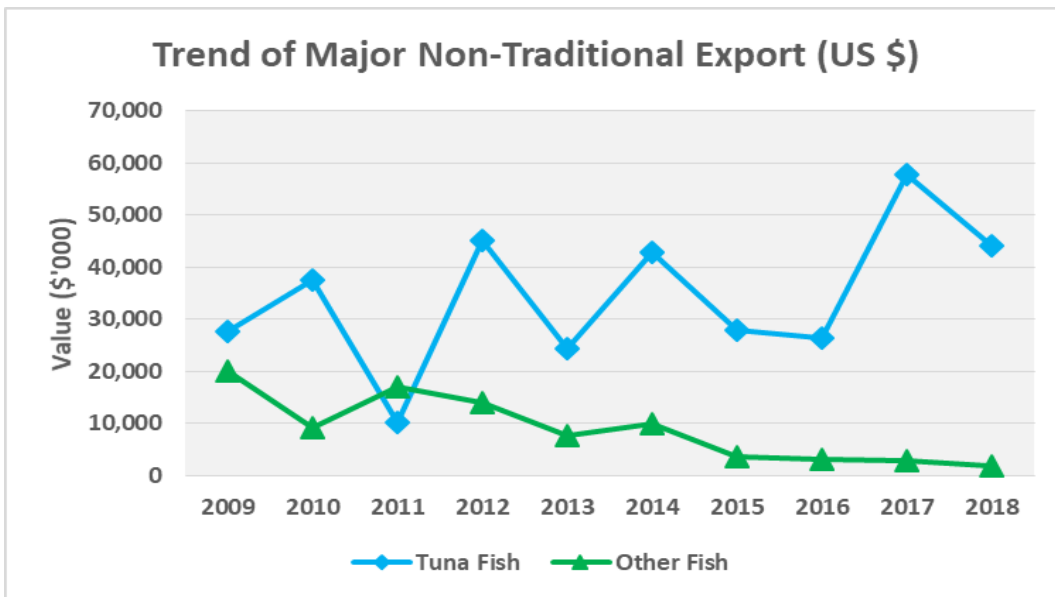
Source: Ghana Export Promotion Council (GEPC), Accra

Figure 10: Value Trend of Major Non-Traditional Exports



Source: Based on Table 8.8

Figure 11: Value Trend of Major Non-Traditional Exports



Source: Based on Table 8.8

Table 8.9: Quantity and Value of Cereal Imports (2009–2018)

Year		Wheat	Rice	Maize	Sorghum
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)	309,808	644,334	3,172	-
	Values \$ million	140.07	429.04	3.22	-
2014	Quantity (Mt)	422,880	417,395	6401	0.1
	Values \$ million	155.09	709.91	14.44	0.025
2015	Quantity (Mt)	469,263	1,082,224	113,037	-
	Values \$ million	144.24	525.47	26.84	-
2016	Quantity (Mt)	578,004	982,044	71,741	-
	Values \$ million	177.53	418.32	16.13	-
2017	Quantity (Mt)	798,986	819,839	40,661	501
	Values \$ million	227.04	400.79	9.77	0.21
2018	Quantity (Mt)	715,027	830,127	81,708	32
	Values \$ million	212.58	449.01	22.65	0.06

Source: GSS.

n.e: Value is negligible

(-) Not available.

Table 8.10: Fertilizer Imports, 2008-2018

YEAR	NPK (Mt)	NPK (Liquid) (Lt)	Urea (Mt)	Muriate of Potash (Mt)	Sulphate of Ammonia (Mt)	Phosphates (Mt)	Nitrates (Mt)	Potassium Sulphate	Cocoa Fertilizer	**Others		Total	
										(Mt)	(Lt)	SOLID (Mt)	LIQUID (Lt)
2008	18,873	-	13,773	8,853	4,172	15,440	64,085	371	n.a.	*61,463	n.a	187,030	-
2009	197,631	-	25,028	15,007	4,616	66,501	110	n.a.	n.a.	*26,293	n.a	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	n.a	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	n.a	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	n.a	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	n.a	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	n.a	430,610	510,103
2016	258,290.19	127,565	16,353.40	14,267.82	14,417.39	109,960.87	3,450.04	3,626.52	n.a	20,459	523,646	440,826	651,211
2017	153,767.13	14,351	78,590.56	26,018.00	36,833.10	23,279.53	2,203.41	n.a	n.a	178,875	2,839,351	499,566	2,853,702
2018	224,176.00	-	42,005	15,993	10,084	703	90,019	74	n.a	-	-	383,054	0

Source: 1. Crops Services Directorate, Plant Protection and Regulatory Services Directorate (2012 - 2017), (Ministry of Food and Agriculture), 2. GSS, Accra (2006-2011).

Nitrate fertilizers include Potassium and Calcium Nitrate. °NPK includes 15-15-15 and other NPKs.

*Figures include liquid fertilizers.

**OTHERS: (ZnSO₄, Fe3SO₄, Ca(NO₃)₂ MgSO₄, K2SO₄, Mg(NO₃ NH₄NO₃)₂,

n.a. = Figures not available.

Table 8.11: Pesticide Imports (Mt)

Types of Pesticides	Year									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Insecticide	6,265*	8,735*	832,810	543,000	1,539	6,513	3,695	5,742	1,620	1,295
Fungicide	1,248	4,955	596,000	180,000	4,599	1167	1,328	4,707	4,482	1,770
Herbicide	4,525	n.a.	854,400	991,300	4,723	7,889	294,009	32,947	19,113	6,975
Total	12,038	13,690	2,283,210	1,714,300	10,861	15,569	299,032	43,396	25,215	10,040

Source: GSS, Accra (2004 – 2010), Plant Protection and Regulatory Services, MoFA (2011 – 2018)

n.a. Figures not available.

* Value also includes that for Rodenticides.

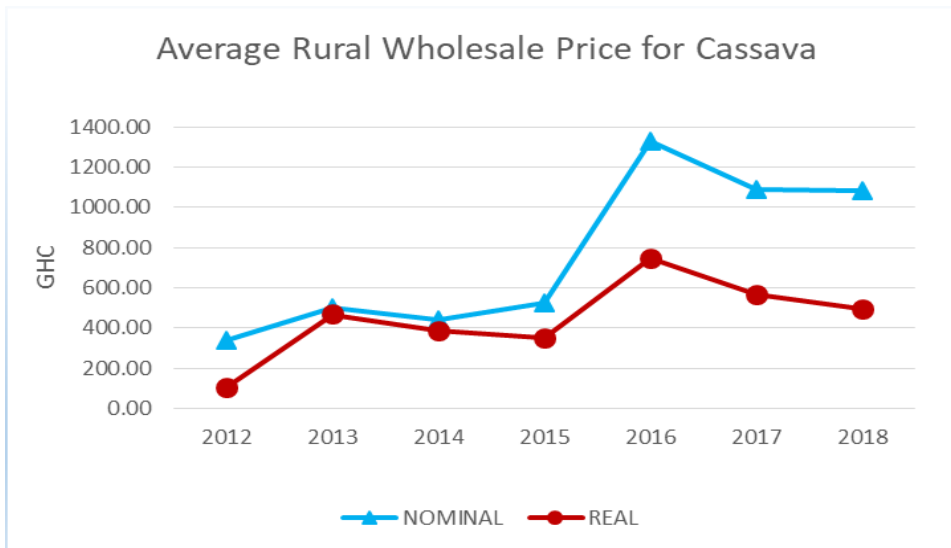
Table 8.12: Pesticide Imports (Litres)

Types of Pesticides	Year									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Insecticide	3,400,000	3,068,000	4,800,000	4,210,000	6,137,965	7,647,599	18,045,662	9,790,479	10,161,318	6,959,924
Fungicide	950,000	698,000	52,000,000	186,000,000	637,564	481,330	219,884	178,278	682,476	336,332
Herbicide	8,980,000	13,162,000	30,300,000	14,600,000	36,869,578	27,741,792	22,209,018	53,531,813	37,643,385	33,242,052
Total	13,330,000	16,928,000	87,100,000	204,810,000	43,645,107	35,870,721	40,474,564	63,500,570	48,487,179	40,538,308

Source: Plant Protection and Regulatory Services, MoFA

APPENDICES

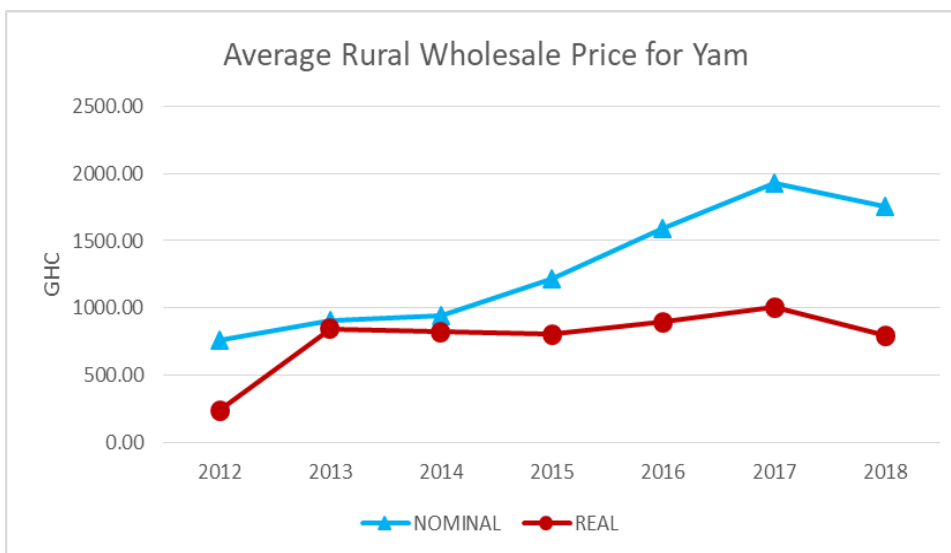
Appendix 1: Average Rural Wholesale* Price for Cassava



A Rebased CPI with 2012 constant prices

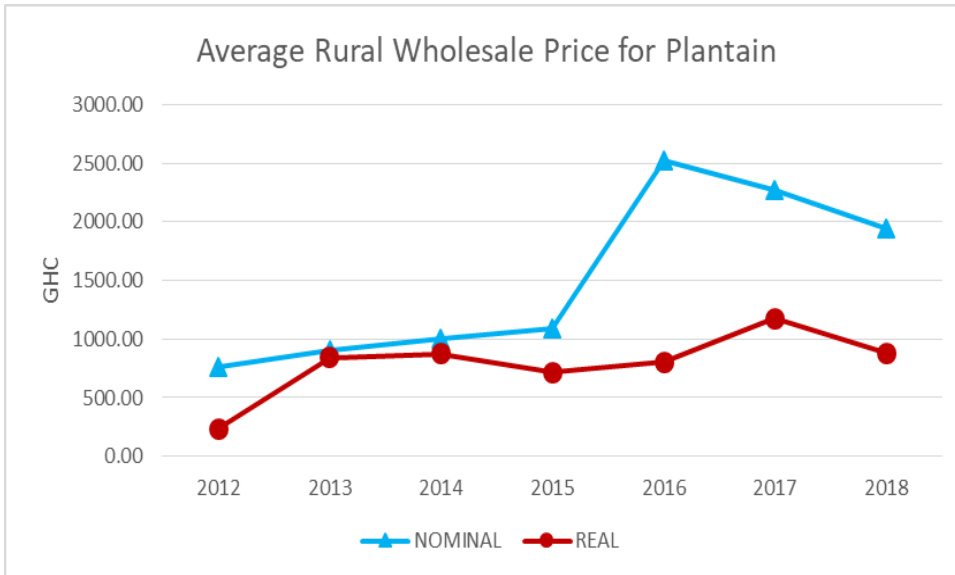
*Please note the wholesale prices for the various crops are expressed in GH¢/Mt

Appendix 2: Average Rural Wholesale Price for Yam



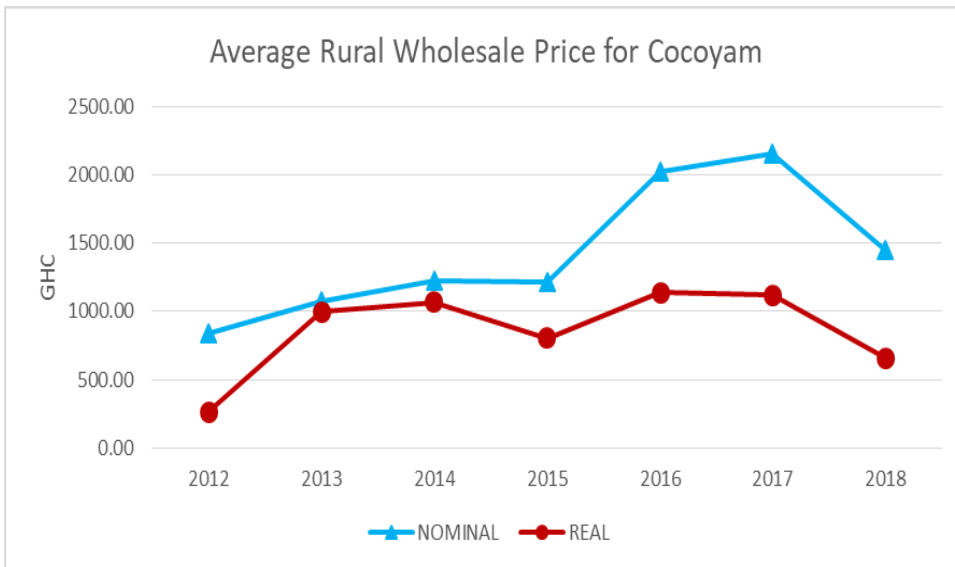
A Rebased CPI with 2012 constant prices

Appendix 3: Average Rural Wholesale Price for Plantain



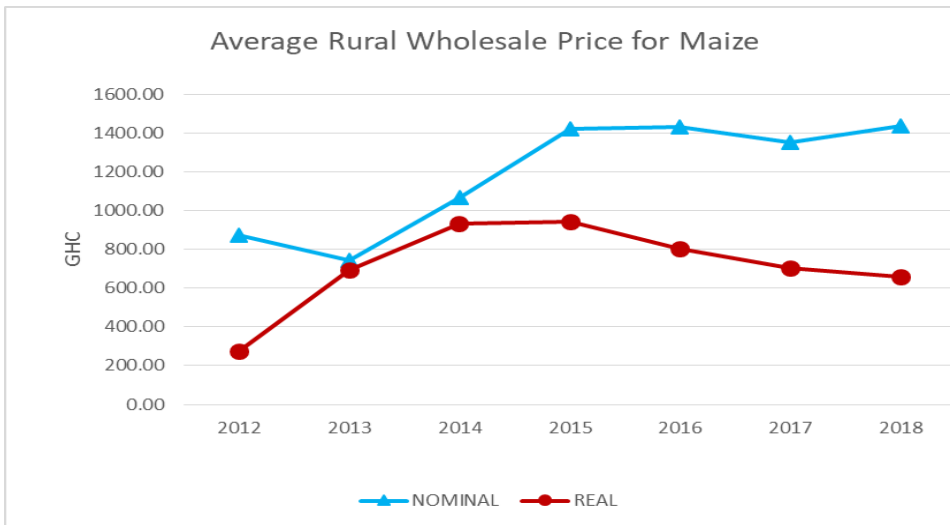
A Rebased CPI with 2012 constant prices

Appendix 4: Average Rural Wholesale Price for Cocoyam



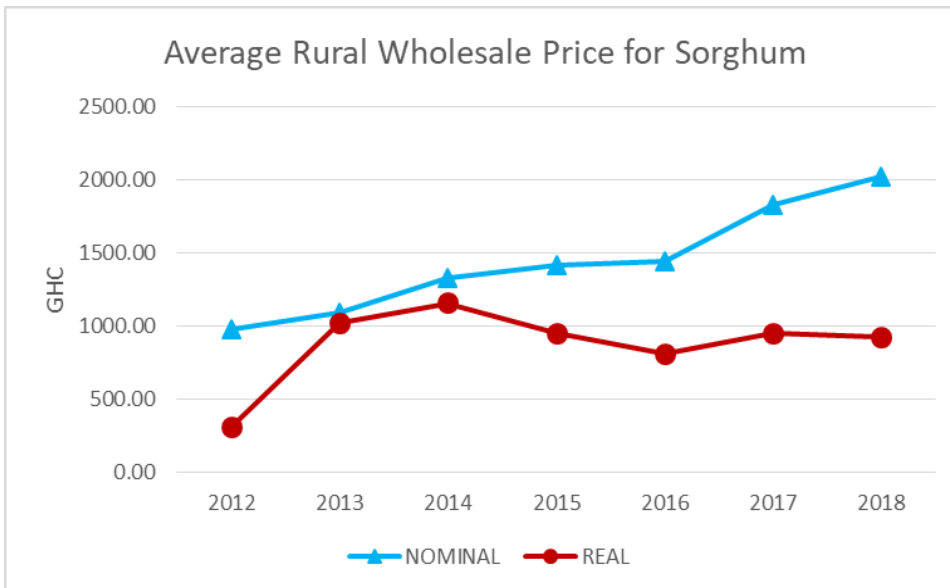
A Rebased CPI with 2012 constant prices

Appendix 5: Average Rural Wholesale Price for Maize



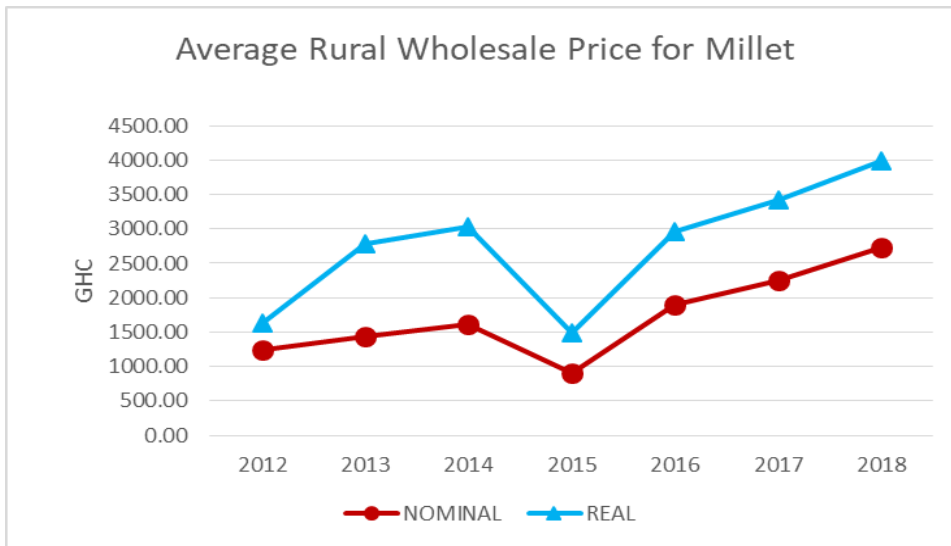
A Rebased CPI with 2012 constant prices

Appendix 6: Average Rural Wholesale Price for Sorghum



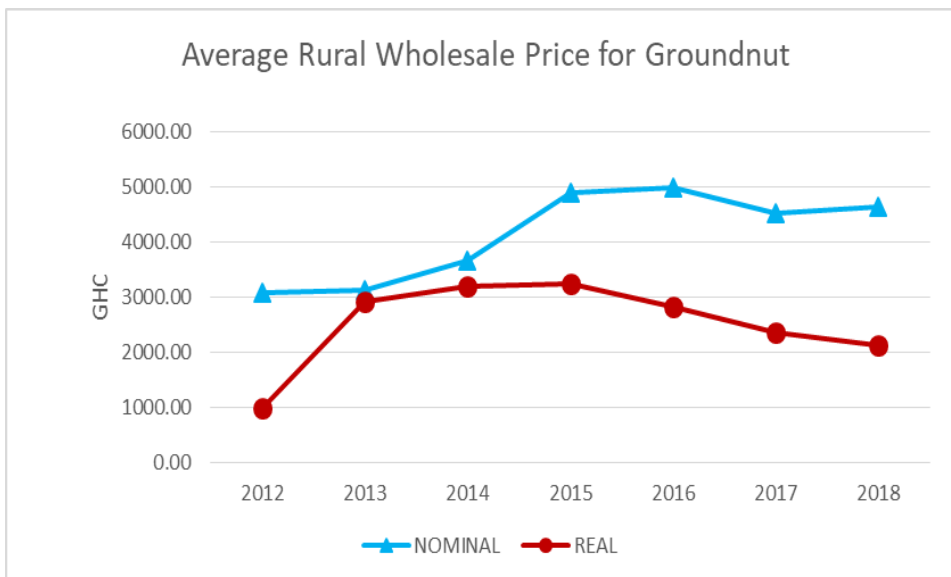
A Rebased CPI with 2012 constant prices

Appendix 7: Average Rural Wholesale Price for Millet



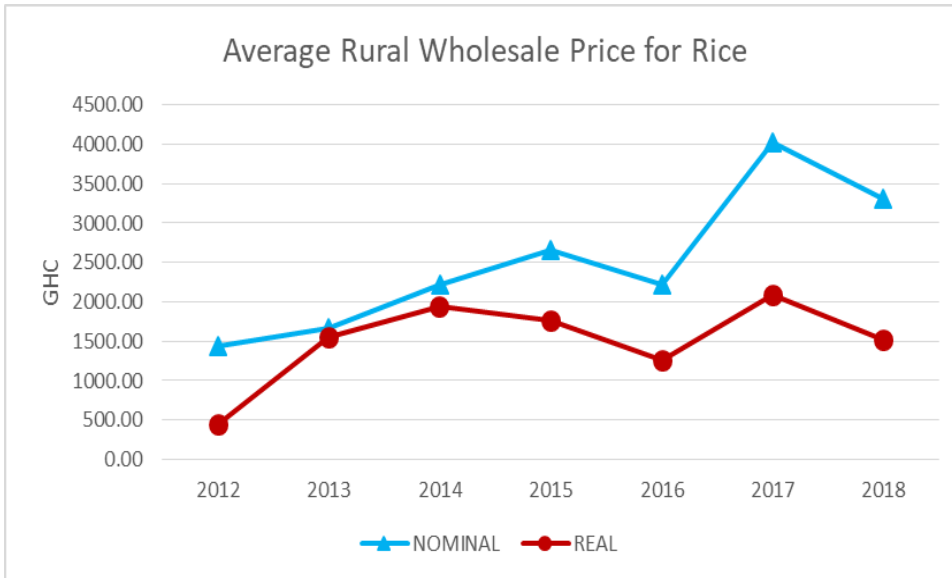
A Rebased CPI with 2012 constant prices

Appendix 8: Average Rural Wholesale Price for Groundnut



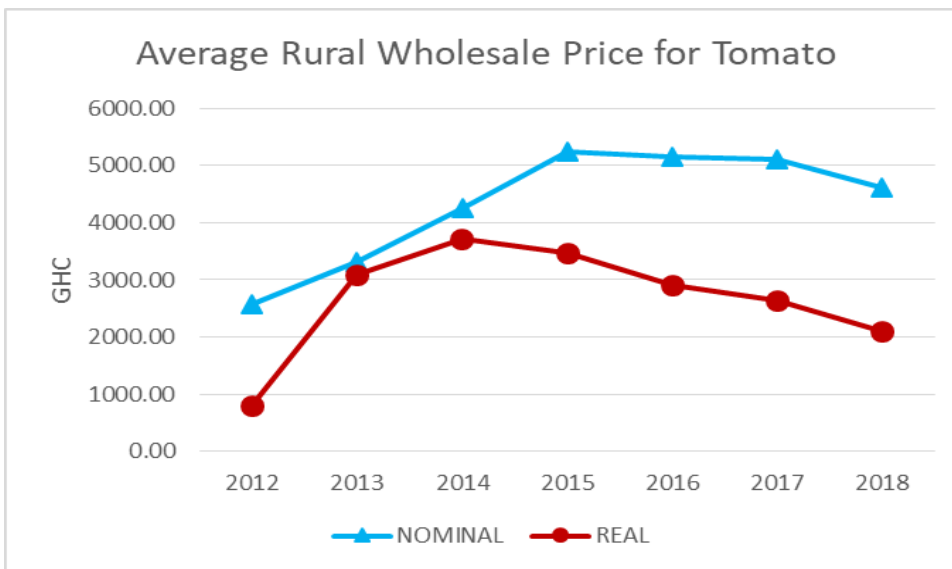
A Rebased CPI with 2012 constant prices

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



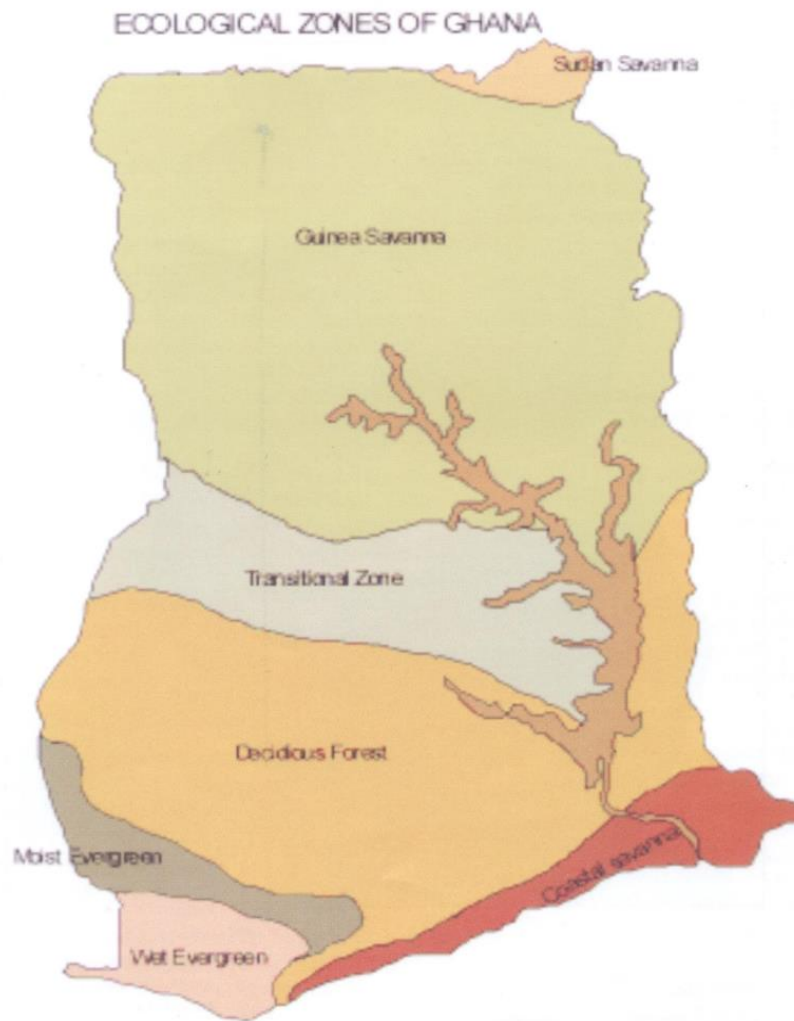
A Rebased CPI with 2012 constant prices

Appendix 10: Average Rural Wholesale Price for Tomatoes



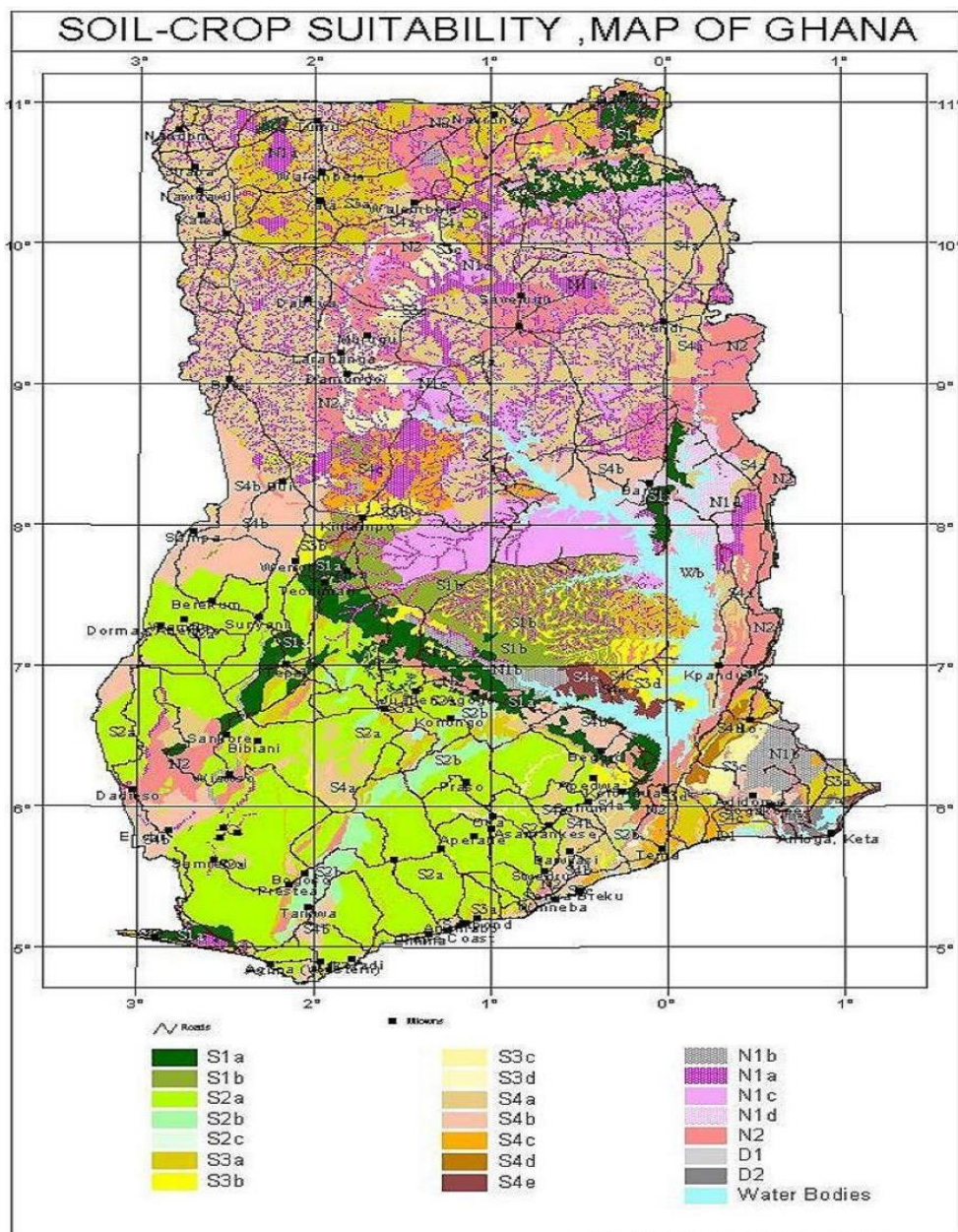
A Rebased CPI with 2012 constant prices

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.
- S2 Suitable 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.
- S3b Mostly 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.
- S4 Fairly 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.
- N1 Unsuitable 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 Animal Feed (2009 – 2018)

Item	Quantity (MT)									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Fishmeal	11,530.13	10,638.84	12,623.30	9,719.82	6,255.11	8,475.97	1,082.20	228.67	848.24	0.00
Premix	909.25	672.33	1,030.35	1,534.07	1,155.96	714.47	829.5	1,571.64	2,017.82	15,669.71
Concentrate	4,242.40	9,058.15	5,516.28	10,488.44	15,494.75	11,818.63	10,320.18	9,482.75	13,275.26	100,410.20
Soya bean	1,016.80	315.95	16,923.59	12,954.14	9,000.07	32,450.77	36,041.26	38,374.75	45,329.11	292,482.20
Bread Flour	-	-	-	-	-	-	-	-	-	-
Groundnut Cake	-	-	174.00	-	-	-	-	-	-	-
Copra Cake	-	-	-	-	-	-	-	33,472.82	-	-
Maize(yellow)	-	-	-	759.45	-	-	-	-	8,496.44	150,196.00
Dried Distillers Grain	430.45	-	-	-	-	-	-	-	-	-
TOTAL	18,129.03	20,685.27	36,267.52	35,455.92	31,905.89	53,459.84	48,273.14	83,130.63	69,966.87	558,758.23

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,

Criteria:

Meat Production (Mt) = (Off Take Rate (%) x Estimated Population (Table 4.11) 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: 2009-2018
(Figures in '000Mt)

CROP	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Maize	1,619.60	1,871.70	1,684.00	1,949.90	1,764.50	1,768.54	1,691.64	1,721.91	2,011.18	2,306.38
Rice (Paddy)	391.40	491.60	464.00	481.10	569.50	604.04	641.49	687.68	722.08	769.40
Millet	245.50	219.00	184.00	179.70	155.10	155.32	157.37	159.02	163.48	181.56
Sorghum	350.60	353.00	287.10	280.00	256.70	259.00	228.40	229.61	277.54	316.24
Cassava	12,230.60	13,504.10	14,240.90	14,547.30	15,989.90	16,523.66	17,212.76	17,798.22	19,008.73	20,845.96
Cocoyam	1,504.00	1,354.80	1,299.60	1,270.30	1,261.50	1,298.97	1,301.19	1,343.73	1,387.29	1,460.94
Yam	5,777.90	5,860.50	5,855.10	6,638.90	7,074.60	7,118.89	7,296.12	7,440.35	7,856.90	7,788.87
Plantain	3,562.50	3,537.70	3,619.80	3,556.50	3,675.30	3,828.01	3,952.44	4,000.42	4,278.83	4,688.28
Groundnuts	485.10	530.90	465.10	475.10	408.80	426.63	417.20	425.83	433.77	521.03
Oil Palm	2,103.60	2,004.30	2,125.60	2,196.10	1,643.82	1,711.71	1,791.90	1,867.14	1,951.96	1,992.75
Cowpea	204.80	219.30	236.70	223.20	200.40	201.26	203.32	206.38	211.47	237.04
Soybean	112.80	144.90	164.50	151.70	138.70	141.47	142.36	143.22	170.49	176.67

Source: Statistics, Research and Information Directorate (SRID), MoFA – Multi Round Annual Crop & Livestock Survey (MRACLS)/Ghana Agricultural Production Survey (GAPS)

**Appendix 16: Annual Cultivated Area of some Major Crops in Ghana: 2009-2018
(Figures in '000 Ha)**

CROP	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Maize	954.4	991.7	1,023.20	1,042.10	1,023.50	1,024.53	880.25	865.28	984.51	1,020.52
Rice (Paddy)	162.4	162.4	197.5	189.5	215.9	224.46	233.27	235.85	240.7	259.71
Millet	186.7	176.7	178.7	172.5	160.7	162.35	162.24	136.92	155.66	141.64
Sorghum	267.2	252.6	243.5	230.8	225.8	226.92	228.39	201.16	223.51	228.14
Cassava	885.8	875	889.4	868.5	875.2	888.61	916.54	879.1	916.84	977.34
Cocoyam	224.6	205.3	204.4	196.3	194	200.4	200.49	205.86	204.24	203.23
Yam	378.7	384.9	403.8	426.3	421.6	428.01	430.2	427.22	470.33	469.69
Plantain	324.9	328	336.5	337.3	340	356.59	362.61	358.2	363.4	387.23
G'nuts	336.5	333.4	356.8	345.2	328.9	334.53	336.45	327.38	316.31	319.68
Oil Palm	352.8	343.3	373.2	387	313.7	321.75	330	338.25	346.71	351.39
Cowpea	162.7	167	182.3	168.8	162	165.83	162.65	146.66	153.91	156.79
Soyabean	77.3	76.2	85.9	85.2	84.8	86.87	86.27	86.88	102.6	102.98

*Source: Statistics, Research and Information Directorate
(SRID) MoFA – MRACLS/GAPS*

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

	2014	2015	2016	2017	2018
Domestic Meat Production (DMP)	143,603.0	150,751.0	157,810.0	164,124.0	168,291.0
Imports **	144,694.0	161,394.2	132,059.2	189,708.2	241,872.0
Tot Meat Available (Imports +Domestic production)*	288,297.0	312,145.2	289,869.2	353,832.2	410,163.0
Share DMP (%)	49.8	48.3	54.4	46.4	41.0
Share Imports (%)	50.2	51.7	45.6	53.6	59.0

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

*Total meat available - (domestic production + imports) excludes bush meat (animals in the wild – e.g. grass cutter, antelope etc.) – includes cattle, sheep, goats, pigs and poultry

**Imports here exclude milk and other dairy products, which on average account for about 21% of total meat and animal product imports

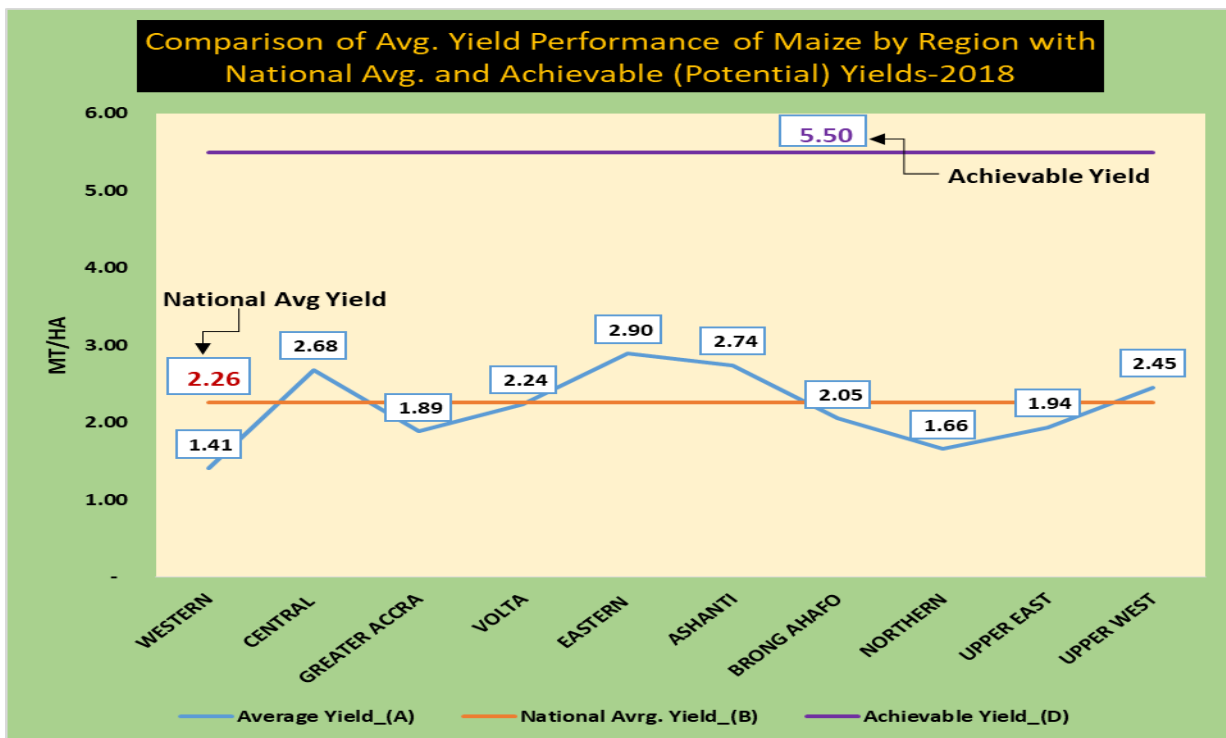
**Appendix 18: Industry of currently employed persons aged 15 and older
by locality and sex (%)**

Industry	Ghana			Urban			Rural		
	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes
All	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Agriculture, forestry and fishing	41.7	35.1	38.3	14.6	9.2	11.8	68.7	61.9	65.2
Mining and quarrying	2.6	0.5	1.5	2.4	0.1	1.2	2.9	1.0	1.9
Manufacturing	7.4	16.1	11.9	10.5	20.7	15.8	4.4	11.3	7.9
Electricity, gas, steam and air conditioning supply	0.3	0.1	0.2	0.4	0.1	0.2	0.2	0.1	0.1
Water supply, sewerage, waste management	0.2	0.2	0.2	0.4	0.2	0.3	0.1	0.1	0.1
Construction	8.9	0.2	4.4	12.5	0.1	6.0	5.3	0.3	2.7
Wholesale and retail trade	12.6	29.4	21.3	21.1	42.8	32.4	4.2	15.6	10.0
Transportation and storage	7.1	0.3	3.6	9.4	0.3	4.7	4.8	0.2	2.4
Accommodation and food service activities	0.8	5.4	3.2	1.3	7.1	4.3	0.4	3.6	2.0
Information and communication	0.5	0.1	0.3	1.0	0.1	0.6	0.1	0.00	0.00
Financial and insurance activities	1.4	0.8	1.1	2.6	1.2	1.9	0.3	0.4	0.4
Real estate activities	0.3	0.00	0.2	0.6	0.00	0.3	0.00	0.00	0.00
Professional, scientific and technical activities	0.9	0.3	0.6	1.6	0.4	1.0	0.2	0.1	0.2
Administrative and support service activities	0.8	0.3	0.6	1.3	0.5	0.9	0.4	0.1	0.3
Public administration and defence	2.5	1.1	1.8	4.1	2.0	3.0	0.8	0.2	0.5
Education	5.8	4.4	5.1	7.0	6.7	6.8	4.6	2.1	3.3
Human health and social work activities	1.2	1.7	1.5	1.8	2.3	2.1	0.6	1.1	0.8
Arts, entertainment and recreation	1.3	0.2	0.7	2.1	0.3	1.1	0.5	0.00	0.3
Other service activities	3.2	3.2	3.2	5.1	4.8	4.9	1.5	1.6	1.5
Activities of households as employers	0.2	0.6	0.4	0.4	1.0	0.7	0.1	0.3	0.2
Activities of extraterritorial organizations and bodies	0.00	0.00	0.00	0.1	0.00	0.00	0.00	0.00	0.00

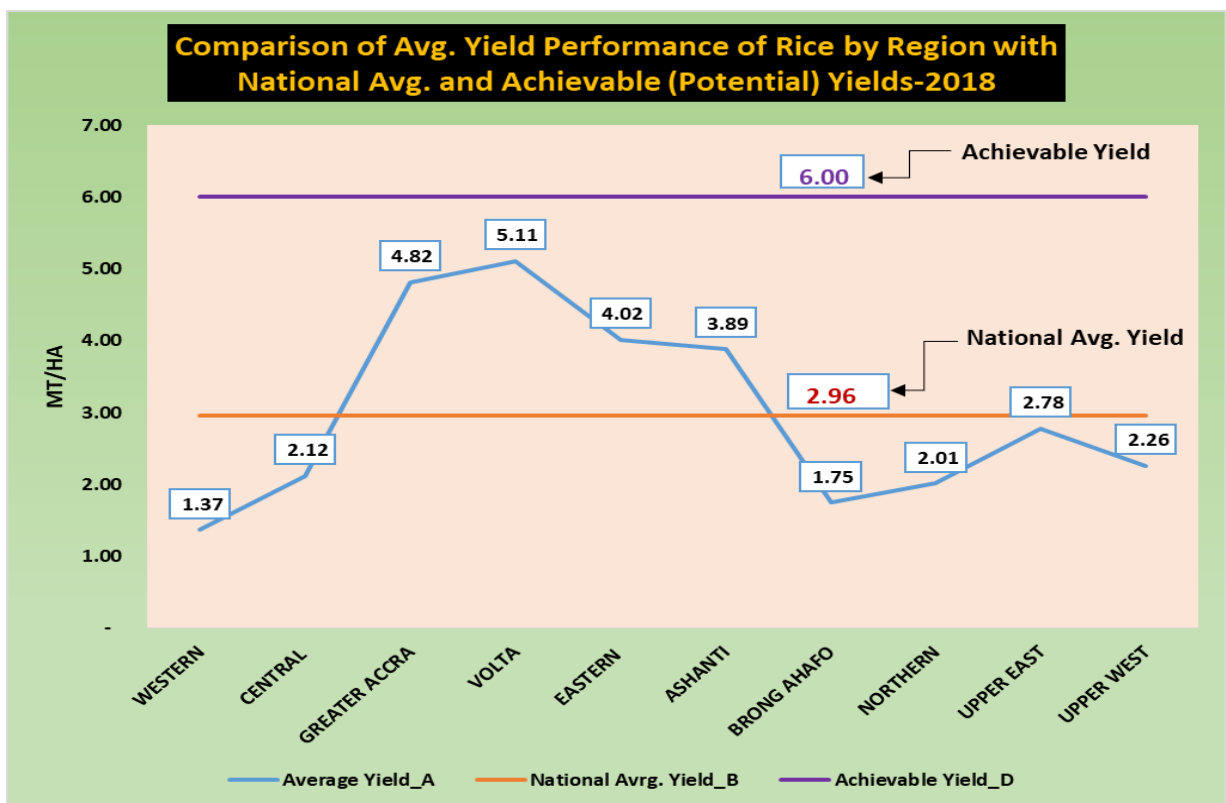
Source: GSS, GLSS 7, Main Report, June 2019.

***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 19: Comparison of avg. Yield Performance of Maize by Region with National avg. and Achievable (Potential) Yields.



Appendix 20: Comparison of avg. Yield Performance of Rice by Region with National avg. and Achievable (Potential) Yields



Appendix 21: 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)

No.	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	Amansie West	3.23	2.26	143.08	5.50	58.79
2		2	Bekwai (Amansie East)	3.23	2.26	142.92	5.50	58.73
3		3	Sekyere East	2.62	2.26	115.73	5.50	47.55
4		4	Atwima Mponua	2.26	2.26	100.02	5.50	41.10
5	BRONG AHAFO	1	Techiman Municipal	2.53	2.26	111.83	5.50	45.95
6		2	Asunafo South	2.44	2.26	107.85	5.50	44.32
7		3	Wenchi Municipal	2.39	2.26	105.95	5.50	43.54
8		4	Tain	2.27	2.26	100.45	5.50	41.28
9	CENTRAL	1	Twifo-Herman/L. Denkyira	3.34	2.26	147.66	5.50	60.67
10		2	Abura-Asebu-Kwamankese	3.18	2.26	140.90	5.50	57.90
11		3	Assin South	3.12	2.26	137.87	5.50	56.65
12		4	Gomoa East	3.05	2.26	134.76	5.50	55.38
13		5	Asikuma-Odoben-Brakwa	2.88	2.26	127.46	5.50	52.38
14		6	Effutu (Winneba)	2.75	2.26	121.65	5.50	49.99
15		7	Awutu-Senya	2.67	2.26	118.02	5.50	48.49
16		8	Agona East	2.66	2.26	117.66	5.50	48.35
17		9	Agona West	2.64	2.26	116.87	5.50	48.02
18		10	Upper Denkyira East	2.57	2.26	113.81	5.50	46.77
19		11	Gomoa West	2.53	2.26	112.02	5.50	46.03
20		12	Upper Denkyira West	2.50	2.26	110.52	5.50	45.41
21		13	Mfantiman	2.42	2.26	107.10	5.50	44.01
22	EASTERN	1	West Akim	4.05	2.26	179.20	5.50	73.63
23		2	Upper West Akim	4.04	2.26	178.90	5.50	73.51
24		3	Birim South	3.16	2.26	139.85	5.50	57.47
25		4	Birim Central	3.15	2.26	139.58	5.50	57.35
26		5	Akuapim North	3.03	2.26	133.93	5.50	55.03
27		6	Atiwa	2.88	2.26	127.38	5.50	52.34
28		7	Kwaebibirem	2.81	2.26	124.48	5.50	51.15
29		8	Akuapim South	2.81	2.26	124.15	5.50	51.02
30		9	New Juaben	2.77	2.26	122.57	5.50	50.36
31		10	East Akim	2.75	2.26	121.53	5.50	49.94
32		11	Kwahu West	2.75	2.26	121.48	5.50	49.92
33		12	Kwahu South	2.71	2.26	119.88	5.50	49.26
34		13	Kwahu East	2.70	2.26	119.56	5.50	49.13
35		14	Suhum Kraboa Coalta	2.64	2.26	116.92	5.50	48.04

No.	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	UPPER WEST	1	Sissala East	3.44	2.26	152.08	5.50	62.49
37		2	Sissala West	2.87	2.26	127.08	5.50	52.22
38	VOLTA	1	Afadzato South	2.64	2.26	116.59	5.50	47.91
39		2	Hohoe Municipal	2.55	2.26	112.63	5.50	46.28
40		3	Jasikan	2.50	2.26	110.51	5.50	45.41
41		4	Biakoye	2.43	2.26	107.63	5.50	44.23
42		5	Kadjebi	2.41	2.26	106.78	5.50	43.88
43	NORTHERN	1	Tolon	2.61	2.26	115.37	5.50	47.40
44		2	West Gonja	2.28	2.26	101.05	5.50	41.52

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	5	Atwima Nwabiagya	2.22	2.26	98.22	5.50	40.36
2		6	Ejura Sekyedumase	2.21	2.26	97.95	5.50	40.25
3		7	Sekyere Central	2.09	2.26	92.31	5.50	37.93
4		8	Offinso	2.05	2.26	90.51	5.50	37.19
5		9	Sekyere Afram Plains	2.04	2.26	90.15	5.50	37.05
6		10	Afigya Kwabre	2.02	2.26	89.31	5.50	36.70
7		11	Asante Akim North	2.00	2.26	88.38	5.50	36.32
8		12	Bosumtwe	1.96	2.26	86.82	5.50	35.67
9		13	Amansie Central	1.94	2.26	85.86	5.50	35.28
10		14	Offinso North	1.93	2.26	85.39	5.50	35.09
11		15	K. M. A.	1.92	2.26	84.80	5.50	34.85
12		16	Sekyere South	1.91	2.26	84.39	5.50	34.68
13		17	Mampong (Sekyere West)	1.90	2.26	84.18	5.50	34.59
14		18	Obuasi (Adansi West)	1.89	2.26	83.60	5.50	34.35
15		19	Kwabre East	1.85	2.26	81.90	5.50	33.65
16		20	Ahafo Ano North	1.80	2.26	79.81	5.50	32.80
17		21	Bosome Freho	1.76	2.26	77.89	5.50	32.00
18		22	Ejusu Juaben	1.76	2.26	77.77	5.50	31.95
19		23	Adansi North	1.75	2.26	77.32	5.50	31.77
20		24	Asante Akim South	1.73	2.26	76.48	5.50	31.43
21		25	Ahafo Ano South	1.72	2.26	75.98	5.50	31.22
22		26	Adansi South (East)	1.70	2.26	75.23	5.50	30.91
23		27	Atwima Kwanwoma	1.70	2.26	75.09	5.50	30.86
24		28	Asokore Mampong	0.90	2.26	39.97	5.50	16.42
25		29	Asante Akim Central	0.73	2.26	32.30	5.50	13.27

	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)
	BRONG							
26	AHAFO	5	Asunafo North	2.21	2.26	97.76	5.50	40.17
27		6	Kintampo South	2.15	2.26	95.03	5.50	39.05
28		7	Kintampo North	2.10	2.26	93.12	5.50	38.26
29		8	Dormaa East	2.09	2.26	92.65	5.50	38.07
30		9	Pru	2.06	2.26	91.28	5.50	37.51
31		10	Atebubu -Amantin	2.03	2.26	89.67	5.50	36.85
32		11	Dormaa Municipal	1.92	2.26	84.86	5.50	34.87
33		12	Jaman North	1.90	2.26	84.23	5.50	34.61
34		13	Tano South	1.89	2.26	83.78	5.50	34.43
35		14	Asutifi North	1.86	2.26	82.49	5.50	33.90
36		15	Tano North	1.85	2.26	81.96	5.50	33.68
37		16	Jaman South	1.84	2.26	81.55	5.50	33.51
38		17	Nkoranza North	1.83	2.26	81.16	5.50	33.35
39		18	Nkoranza South	1.82	2.26	80.37	5.50	33.03
40		19	Berekum Municipal	1.80	2.26	79.83	5.50	32.80
41		20	Sene East	1.78	2.26	78.69	5.50	32.34
42		21	Sunyani West	1.76	2.26	77.88	5.50	32.00
43		22	Techiman North	1.71	2.26	75.81	5.50	31.15
44		23	Sunyani Municipal	1.70	2.26	75.34	5.50	30.96
45		24	Dormaa West	1.37	2.26	60.62	5.50	24.91
46		25	Banda	1.35	2.26	59.73	5.50	24.55
47		26	Asutifi South	1.27	2.26	56.34	5.50	23.15
48		27	Sene West	1.19	2.26	52.65	5.50	21.64
49	CENTRAL	14	Cape Coast	1.94	2.26	86.06	5.50	35.36
50		15	Komenda-Edina-Eguafo- Abirem	1.89	2.26	83.68	5.50	34.39
51		16	Ajumako-Enyan-Esiam	1.79	2.26	79.02	5.50	32.47
52		17	Assin North	1.69	2.26	74.57	5.50	30.64
53	EASTERN	15	Kwahu Afram Plains South	1.94	2.26	85.66	5.50	35.20
54		16	Kwahu Afram Plains North	1.92	2.26	85.07	5.50	34.96
55		20	Lower Manya Krobo	1.92	2.26	84.96	5.50	34.91
56		20	Upper Manya Krobo	1.92	2.26	84.96	5.50	34.91
57		20	Akyemansa	1.92	2.26	84.96	5.50	34.91
58		20	Birim North	1.92	2.26	84.96	5.50	34.91
59		20	Yilo Krobo	1.92	2.26	84.96	5.50	34.91
60		20	Asuogyaman	1.92	2.26	84.96	5.50	34.91
61		20	Fanteakwa	1.92	2.26	84.96	5.50	34.91
62		24	Nsawam Adoagyiri	1.90	2.26	84.15	5.50	34.58
63		25	Denkyembour	1.88	2.26	83.06	5.50	34.13
64		26	Ayensuano	1.80	2.26	79.69	5.50	32.74

	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)
65		27	Afram Plains	0.94	2.26	41.69	5.50	17.13
	GREATER							
66	ACCRA	1	Ada East	1.74	2.26	76.99	5.50	31.64
67		2	Ga East	1.57	2.26	69.28	5.50	28.47
68		3	AMA	1.41	2.26	62.54	5.50	25.70
69		4	Ga South	1.32	2.26	58.41	5.50	24.00
70		5	Ga Central	1.30	2.26	57.52	5.50	23.64
71		6	Ga West	1.30	2.26	57.38	5.50	23.58
72		7	Dangme West	1.24	2.26	54.97	5.50	22.59
73		8	Tema	1.12	2.26	49.77	5.50	20.45
74		9	Ashaiman	1.06	2.26	46.97	5.50	19.30
75		10	Ledzokuku	1.02	2.26	44.91	5.50	18.45
76		11	Adentan	0.78	2.26	34.31	5.50	14.10
77		14	Ada West	0.63	2.26	28.02	5.50	11.52
78		14	Korle Klottey	0.63	2.26	28.02	5.50	11.52
79		14	La Nkwantanang-Madina	0.63	2.26	28.02	5.50	11.52
80		14	Ningo-Prampram	0.63	2.26	28.02	5.50	11.52
81		14	Shai-Osudoku	0.63	2.26	28.02	5.50	11.52
82		17	Dangme East	0.31	2.26	13.75	5.50	5.65
83	NORTHERN	3	West Mamprusi	2.07	2.26	91.39	5.50	37.55
84		4	Chereponi	2.04	2.26	90.48	5.50	37.18
85		5	Savelugu/Nanton	2.00	2.26	88.50	5.50	36.36
86		6	Central Gonja	1.98	2.26	87.83	5.50	36.09
87		7	Sawla/Tuna/Kalba	1.98	2.26	87.63	5.50	36.01
88		8	Kpandai	1.96	2.26	86.67	5.50	35.61
89		9	Nanumba North	1.90	2.26	84.21	5.50	34.60
90		10	Yendi	1.77	2.26	78.19	5.50	32.13
91		11	East Gonja	1.76	2.26	77.91	5.50	32.01
92		12	Bole	1.75	2.26	77.58	5.50	31.88
93		13	Tamale Metro	1.73	2.26	76.69	5.50	31.51
94		14	Zabzugu	1.64	2.26	72.55	5.50	29.81
95		15	Saboba	1.54	2.26	68.30	5.50	28.07
96		16	Gushiegu	1.53	2.26	67.70	5.50	27.82
97		17	Nanumba South	1.49	2.26	66.04	5.50	27.14
98		18	Bunkpurugu/Yunyoo	1.40	2.26	62.09	5.50	25.51
99		19	Karaga	1.39	2.26	61.61	5.50	25.31
100		20	Mamprugu Moagduri	1.17	2.26	51.62	5.50	21.21
101		21	East Mamprusi	1.07	2.26	47.20	5.50	19.39
102		22	North Gonja	0.98	2.26	43.51	5.50	17.88
103		23.5	Mion	0.97	2.26	42.77	5.50	17.58
104		23.5	Sagnerigu	0.97	2.26	42.77	5.50	17.58
105		25	Tatale Sanguli	0.90	2.26	39.82	5.50	16.36

	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)
106		26	Kumbungu	0.87	2.26	38.35	5.50	15.76
107	UPPER EAST	1	Garu Tempane	1.94	2.26	85.96	5.50	35.32
108		2	Bolgatanga Municipal	1.93	2.26	85.55	5.50	35.15
109		3	Bawku Municipal	1.90	2.26	83.89	5.50	34.47
110		4	Talensi	1.85	2.26	81.77	5.50	33.60
111		5	Bongo	1.77	2.26	78.32	5.50	32.18
112		6	Builsa North	1.69	2.26	74.88	5.50	30.77
113		7	Kassena Nankana West	1.67	2.26	73.75	5.50	30.30
114		8	Pusiga	1.64	2.26	72.78	5.50	29.90
115		9	Binduri	1.63	2.26	72.26	5.50	29.69
116	UPPER WEST	3	Jirapa	1.94	2.26	85.73	5.50	35.23
117		4	Wa Municipal	1.89	2.26	83.51	5.50	34.31
118		5	Lawra	1.63	2.26	71.93	5.50	29.55
119		6	Dafiama-Bussie-Issa	1.59	2.26	70.36	5.50	28.91
120		7	Wa West	1.54	2.26	67.93	5.50	27.91
121		8	Nadowli	1.52	2.26	67.21	5.50	27.62
122		9	Wa East	1.52	2.26	67.20	5.50	27.61
123		10	Nandom	1.50	2.26	66.55	5.50	27.35
124		11	Lambussie-Karni	1.07	2.26	47.48	5.50	19.51
125	VOLTA	6	Ketu North	2.25	2.26	99.58	5.50	40.92
126		7	North Dayi	2.17	2.26	95.80	5.50	39.36
127		8	Agortime-Ziope	2.10	2.26	92.92	5.50	38.18
128		9	Kpando Municipal	1.99	2.26	88.05	5.50	36.18
129		10	South Dayi	1.98	2.26	87.57	5.50	35.98
130		11	Adaklu	1.94	2.26	86.01	5.50	35.34
131		12	Akatsi North	1.94	2.26	85.68	5.50	35.21
132		13	Akatsi South	1.92	2.26	84.73	5.50	34.82
133		14	Nkwanta North	1.88	2.26	83.16	5.50	34.17
134		15	Ho West	1.83	2.26	80.75	5.50	33.18
135		16	Central Tongu	1.78	2.26	78.76	5.50	32.36
136		17	Krachi Nchumuru	1.77	2.26	78.10	5.50	32.09
137		18	Krachi West	1.75	2.26	77.63	5.50	31.90
138		19	Ho Municipal	1.75	2.26	77.59	5.50	31.88
139		20	Nkwanta South	1.70	2.26	75.01	5.50	30.82
140		21	Krachi East	1.68	2.26	74.47	5.50	30.60
141		22	North Tongu	1.66	2.26	73.54	5.50	30.22
142		23	South Tongu	1.59	2.26	70.30	5.50	28.89
143		24	Ketu South	1.51	2.26	66.65	5.50	27.39
144		25	Keta Municipal	1.28	2.26	56.77	5.50	23.33
145	WESTERN	1	Bia East	2.02	2.26	89.54	5.50	36.79
146		2	Bia West	1.87	2.26	82.52	5.50	33.91

	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)
147		3	Sefwi-Wiawso	1.78	2.26	78.61	5.50	32.30
148		4	Mporhor	1.75	2.26	77.33	5.50	31.77
149		5	Wassa East	1.65	2.26	73.01	5.50	30.00
150		6	Juabeso	1.55	2.26	68.65	5.50	28.21
151		7	Bodi	1.54	2.26	68.14	5.50	28.00
152		8	Amenfi West	1.51	2.26	66.80	5.50	27.45
153		9	Amenfi East	1.42	2.26	62.94	5.50	25.86
154		10	Suaman	1.37	2.26	60.40	5.50	24.82
155		11	Aowin	1.35	2.26	59.92	5.50	24.62
156		12	Amenfi Central	1.31	2.26	57.77	5.50	23.74
157		13	Jomoro	1.30	2.26	57.37	5.50	23.58
158		14	Nzema East	1.27	2.26	56.14	5.50	23.07
159		15	Tarkwa Nsuaem	1.25	2.26	55.22	5.50	22.69
160		16	Ahanta West	1.24	2.26	54.90	5.50	22.56
161		17	Akontombra	1.21	2.26	53.69	5.50	22.06
162		18	Bibiani-Anhwiaso- Bekwai	1.21	2.26	53.42	5.50	21.95
163		19	Prestea Huni-Valley	1.20	2.26	53.31	5.50	21.91
164		20	Sekondi-Takoradi	1.14	2.26	50.39	5.50	20.71
165		21	Ellembele	1.13	2.26	50.07	5.50	20.57
166		22	Shama	1.13	2.26	50.01	5.50	20.55

Appendix 22: Yield Performance Summary (Maize)

NAV = National Average

ACH_Y = Achievable (potential) Yields

	Number	Share (%)
Total Number of Districts	210	100
Districts with yields above national average	43	20.5
Districts with yields equal to national average	1	0.5
Districts with yields below national average	166	79.0

Notes

From the table above, the average yields of maize (3-yr avg.) for 20.5 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 179.20 percent of national average and 73.63 percent of potential yields.

79 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 13.75 percent of national average and 5.65 percent of potential yields.

Maize yields for 0.5 percent of districts equalled national average.

Appendix 23: 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	3.95	2.96	133.59	6.00	65.91
2		2	Ahafo Ano North	3.79	2.96	128.12	6.00	63.21
3		3	Ejusu Juaben	3.72	2.96	125.72	6.00	62.02
4		4	Asokore Mampong	3.54	2.96	119.59	6.00	59.00
5		5	Asante Akim North	3.39	2.96	114.56	6.00	56.52
6		6	Atwima Nwabiagya	3.38	2.96	114.35	6.00	56.41
7		7	Afigya Kwabre	3.15	2.96	106.30	6.00	52.44
8		8	Bosome Freho	3.13	2.96	105.88	6.00	52.24
9		9	Asante Akim Central	3.12	2.96	105.41	6.00	52.00
10		10	Offinso North	3.03	2.96	102.39	6.00	50.51
11		11	Offinso	3.03	2.96	102.26	6.00	50.45
12		12	Sekyere Afram Plains	3.01	2.96	101.54	6.00	50.09
13		13	Ejura Sekyedumase	3.00	2.96	101.29	6.00	49.97
14		14	Sekyere Central	2.99	2.96	101.16	6.00	49.91
15		15	Atwima Mponua	2.98	2.96	100.73	6.00	49.69
16		16	Bekwai (Amansie East)	2.97	2.96	100.46	6.00	49.56
17	CENTRAL	1	Gomoa East	4.57	2.96	154.25	6.00	76.10
18		2	Assin South	3.18	2.96	107.56	6.00	53.06
19	EASTERN	1	East Akim	5.11	2.96	172.53	6.00	85.11
20		2	Kwahu West	4.51	2.96	152.36	6.00	75.17
21		3	Akyemansa	4.34	2.96	146.68	6.00	72.36

	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)
22		4	Birim North	4.33	2.96	146.37	6.00	72.21
23		5	Denkyembour	3.87	2.96	130.83	6.00	64.54
24		6	Birim Central	3.82	2.96	128.94	6.00	63.61
25		7	Lower Manya Krobo	3.78	2.96	127.66	6.00	62.98
26		8	Birim South	3.78	2.96	127.55	6.00	62.92
27		9	Kwaebibirem	3.75	2.96	126.78	6.00	62.54
28		10	Atiwa	3.72	2.96	125.63	6.00	61.98
29		11	Upper Manya Krobo	3.61	2.96	122.06	6.00	60.22
30		12	West Akim	3.33	2.96	112.60	6.00	55.55
31		13	UpperWest Akim	3.28	2.96	110.75	6.00	54.64
32		14	Yilo Krobo	3.20	2.96	108.18	6.00	53.37
33		15	Fanteakwa	3.12	2.96	105.39	6.00	51.99
34	GREATER ACCRA	1	Ningo-Prampam	6.35	2.96	214.47	6.00	105.81
35		2	Ashaiman	6.32	2.96	213.68	6.00	105.41
36		3	Shai-Osudoku	6.28	2.96	212.22	6.00	104.70
37		4	Ga West	3.76	2.96	127.07	6.00	62.69
38		5	Ga East	3.29	2.96	111.02	6.00	54.77
39	UPPER EAST	1	Talensi	3.05	2.96	102.97	6.00	50.80
40		2	Kassena Nankana Municipal	2.99	2.96	101.01	6.00	49.83
41	VOLTA	1	Ketu North	6.17	2.96	208.36	6.00	102.79
42		2	Jasikan	6.07	2.96	204.93	6.00	101.10
43		3	South Tongu	5.46	2.96	184.58	6.00	91.06
44		4	Hohoe Municipal	5.21	2.96	175.96	6.00	86.81
45		5	Biakoye	4.88	2.96	164.88	6.00	81.34
46		6	Kpando Municipal	4.84	2.96	163.37	6.00	80.60
47		7	Afadzato South	4.78	2.96	161.49	6.00	79.67
48		8	Kadjebi	4.73	2.96	159.85	6.00	78.86
49		9	Nkwanta South	4.72	2.96	159.57	6.00	78.72
50		10	North Tongu	4.66	2.96	157.34	6.00	77.62
51		11	Central Tongu	4.59	2.96	155.07	6.00	76.50
52		12	Adaklu	4.51	2.96	152.43	6.00	75.20
53		13	Krachi East	4.50	2.96	152.04	6.00	75.01
54		14	Nkwanta North	4.49	2.96	151.82	6.00	74.90
55		15	Ho Municipal	4.43	2.96	149.74	6.00	73.87
56		16	North Dayi	4.39	2.96	148.14	6.00	73.08
57		17	Krachi West	4.29	2.96	144.88	6.00	71.47
58		18	Ho West	4.21	2.96	142.06	6.00	70.08

	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)
59		19	Krachi Nchumuru	4.08	2.96	137.67	6.00	67.92
60		20	Ketu South	4.03	2.96	135.98	6.00	67.08
61		21	Akatsi North	3.96	2.96	133.61	6.00	65.92
62		22	Agortime-Ziope	3.57	2.96	120.44	6.00	59.42
63		23	South Dayi	3.40	2.96	114.70	6.00	56.58
64		24	Akatsi South	3.12	2.96	105.41	6.00	52.00
65		25	Keta Municipal	2.97	2.96	100.34	6.00	49.50

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	17	Sekyere South	2.91	2.96	98.33	6.00	48.51
2		18	K. M. A.	2.87	2.96	97.04	6.00	47.88
3		19	Amansie Central	2.86	2.96	96.74	6.00	47.73
4		20	Bosumtwe	2.84	2.96	96.04	6.00	47.38
5		21	Mampong (Sekyere West)	2.84	2.96	95.97	6.00	47.34
6		22	Adansi North	2.82	2.96	95.17	6.00	46.95
7		23	Atwima Kwanwoma	2.77	2.96	93.44	6.00	46.10
8		24	Obuasi (Adansi West)	2.76	2.96	93.13	6.00	45.94
9		25	Adansi South (East)	2.71	2.96	91.62	6.00	45.20
10		26	Kwabre East	2.71	2.96	91.53	6.00	45.16
11		27	Asante Akim South	2.50	2.96	84.62	6.00	41.75
12	BRONG AHAFO	1	Tano North	2.37	2.96	80.22	6.00	39.57
13		2	Tano South	2.25	2.96	75.92	6.00	37.46
14		3	Atebubu -Amantin	1.90	2.96	64.15	6.00	31.65
15		4	Sene East	1.84	2.96	62.01	6.00	30.59
16		5	Sene West	1.84	2.96	61.99	6.00	30.58
17		8	Banda	1.70	2.96	57.43	6.00	28.33
18		8	Tain	1.70	2.96	57.43	6.00	28.33
19		8	Techiman Municipal	1.70	2.96	57.43	6.00	28.33
20		8	Techiman North	1.70	2.96	57.43	6.00	28.33
21		8	Wenchi Municipal	1.70	2.96	57.43	6.00	28.33
22		11	Asutifi South	1.65	2.96	55.74	6.00	27.50
23		14	Berekum Municipal	1.60	2.96	54.05	6.00	26.67
24		14	Jaman North	1.60	2.96	54.05	6.00	26.67
25		14	Jaman South	1.60	2.96	54.05	6.00	26.67

	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)
26		14	Nkoranza North	1.60	2.96	54.05	6.00	26.67
27		14	Nkoranza South	1.60	2.96	54.05	6.00	26.67
28		17	Asutifi North	1.59	2.96	53.82	6.00	26.55
29		18	Asunafo North	1.57	2.96	52.89	6.00	26.09
30		19	Pru	1.51	2.96	51.08	6.00	25.20
31		20	Dormaa West	1.50	2.96	50.68	6.00	25.00
32		21	Asunafo South	1.48	2.96	50.00	6.00	24.67
33		22	Kintampo North	1.47	2.96	49.70	6.00	24.52
34		23	Dormaa Municipal	1.31	2.96	44.10	6.00	21.75
	CENTRAL	1	Agona East	2.21	2.96	74.62	6.00	36.81
36		2	Abura-Asebu- Kwamankese	1.80	2.96	60.68	6.00	29.93
37		3	Assin North	1.64	2.96	55.50	6.00	27.38
38		4	Upper Denkyira East	1.49	2.96	50.31	6.00	24.82
39		5	Asikuma-Odoben-Brakwa	1.45	2.96	49.04	6.00	24.19
40		6	Upper Denkyira West	1.39	2.96	46.90	6.00	23.14
41		7	Twifo-Herman/L. Denkyira	1.09	2.96	36.69	6.00	18.10
42	EASTERN	1	Kwahu Afram Plains North	2.94	2.96	99.27	6.00	48.97
43		2	Kwahu Afram Plains South	2.91	2.96	98.27	6.00	48.48
44	NORTHERN	1	West Mamprusi	2.71	2.96	91.62	6.00	45.20
45		2	Mion	2.60	2.96	87.84	6.00	43.33
46		3	Sagnerigu	2.60	2.96	87.84	6.00	43.33
47		4	Tatale Sanguli	2.55	2.96	86.15	6.00	42.50
48		5	Yendi	2.53	2.96	85.59	6.00	42.23
49		6	Karaga	2.50	2.96	84.54	6.00	41.71
50		7	North Gonja	2.50	2.96	84.46	6.00	41.67
51		8	Savelugu/Nanton	2.49	2.96	84.01	6.00	41.44
52		9	Tolon	2.47	2.96	83.47	6.00	41.18
53		10	Central Gonja	2.47	2.96	83.33	6.00	41.11
54		11	Zabzugu	2.47	2.96	83.33	6.00	41.11
55		12	Sawla/Tuna/Kalba	2.46	2.96	83.16	6.00	41.02
56		13	Tamale Metro	2.40	2.96	81.10	6.00	40.01
57		14	Mamprugu Moagduri	2.37	2.96	80.07	6.00	39.50
58		15	West Gonja	2.33	2.96	78.59	6.00	38.77
59		16	Chereponi	2.30	2.96	77.70	6.00	38.33
60		17	East Gonja	2.18	2.96	73.74	6.00	36.38
61		18	Saboba	2.16	2.96	72.87	6.00	35.95
62		19	Kpandai	2.02	2.96	68.21	6.00	33.65

	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)
63		20	Kumbungu	1.95	2.96	65.88	6.00	32.50
64		21	Nanumba South	1.95	2.96	65.77	6.00	32.44
65		22	Bole	1.90	2.96	64.26	6.00	31.70
66		23	Gushiegu	1.88	2.96	63.53	6.00	31.34
67		24	Nanumba North	1.84	2.96	62.27	6.00	30.72
68		25	Bunkpurugu/Yunyoo	1.72	2.96	58.11	6.00	28.67
69		26	East Mamprusi	1.71	2.96	57.61	6.00	28.42
70	UPPER EAST	1	Bawku West	2.44	2.96	82.46	6.00	40.68
71		2	Garu Tempene	2.38	2.96	80.27	6.00	39.60
72		3	Binduri	2.28	2.96	76.90	6.00	37.94
73		4	Bongo	2.19	2.96	74.13	6.00	36.57
74		5	Bolgatanga Municipal	2.18	2.96	73.51	6.00	36.27
75		6	Kassena Nankana West	2.11	2.96	71.23	6.00	35.14
76		7	Builsa South	2.06	2.96	69.72	6.00	34.40
77		8	Bawku Municipal	2.05	2.96	69.33	6.00	34.20
78		9	Builsa North	2.01	2.96	67.87	6.00	33.48
79		10	Pusiga	1.88	2.96	63.67	6.00	31.41
80		11	Nabdam	1.43	2.96	48.14	6.00	23.75
81	UPPER WEST	1	Sissala East	2.90	2.96	97.97	6.00	48.33
82		2	Wa West	2.11	2.96	71.25	6.00	35.15
83		3	Wa East	1.89	2.96	63.94	6.00	31.54
84		4	Wa Municipal	1.81	2.96	61.29	6.00	30.24
85		5	Lawra	1.57	2.96	52.95	6.00	26.12
86		6	Sissala West	1.56	2.96	52.76	6.00	26.03
87		7	Nadowli	1.47	2.96	49.77	6.00	24.55
88		8	Dafiama-Bussie-Issa	1.46	2.96	49.48	6.00	24.41
89		9	Jirapa	1.41	2.96	47.49	6.00	23.43
90		10	Lambussie-Karni	1.29	2.96	43.44	6.00	21.43
91		11	Nandom	1.26	2.96	42.65	6.00	21.04
92	WESTERN	1	Juabeso	1.72	2.96	58.04	6.00	28.63
93		2	Bodi	1.72	2.96	57.94	6.00	28.58
94		3	Mporhor	1.49	2.96	50.30	6.00	24.81
95		4	Wassa East	1.46	2.96	49.32	6.00	24.33
96		5	Sefwi-Wiawso	1.43	2.96	48.31	6.00	23.83
97		6	Aowin	1.29	2.96	43.67	6.00	21.54
98		7	Bia West	1.29	2.96	43.58	6.00	21.50
99		8	Suaman	1.29	2.96	43.58	6.00	21.50
100		9	Amenfi West	1.28	2.96	43.34	6.00	21.38

	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)
101		10	Bia East	1.27	2.96	43.07	6.00	21.25
102		11	Amenfi Central	1.27	2.96	42.91	6.00	21.17
103		12	Akontombra	1.27	2.96	42.87	6.00	21.15
104		13	Nzema East	1.24	2.96	41.90	6.00	20.67
105		14	Bibiani-Anhwiaso-Bekwai	1.23	2.96	41.57	6.00	20.51
106		15	Amenfi East	1.22	2.96	41.11	6.00	20.28
107		16	Jomoro	1.21	2.96	40.91	6.00	20.18
108		17	Prestea Huni-Valley	1.19	2.96	40.27	6.00	19.87
109		18	Tarkwa Nsuaem	1.18	2.96	39.79	6.00	19.63
110		19	Ellembele	1.14	2.96	38.45	6.00	18.97
111		20	Sekondi-Takoradi	1.09	2.96	36.68	6.00	18.10
112		21	Shama	0.95	2.96	32.14	6.00	15.86
113		22	Ahanta West	0.85	2.96	28.60	6.00	14.11

Appendix 24: Yield Performance Summary (Rice)

NAV = National Average

ACH_Y = Achievable (potential) Yields

	Number	Share (%)
Total Number of Districts	179	100
Districts with yields above national average	66	36.9
Districts with yields below national average	113	63.1

From the table above (Appendix 24), the average yield of rice (3-yr avg.) for 36.9 percent of districts in Ghana is above national average. Ningo Prampram, in the Greater Accra Region, recorded the highest average yield performance (6.35) accounting for 214.47 percent of national average and 105.81 percent of potential yields.

63.1 per cent of districts, on the other hand, reported yields below national average. The district with the lowest yield performance (0.85) for the period was Ahanta West in the Western Region, accounting for only 28.60 percent of national average and 14.11 percent of potential yields.

Appendix 25: Basic production Statistics for the Top 5 Producers of some Selected Crops

A. Maize Production (Mt) Statistics

Top 5 Regions	3-Yr Average (2016-2018)	Share of Sub-Tot	Share of Overall Tot
EASTERN	447,933.75	28.70%	22.34%
BRONG AHAFO	429,188.11	27.50%	21.41%
ASHANTI	256,734.24	16.45%	12.81%
NORTHERN	220,412.89	14.12%	10.99%
CENTRAL	206,578.26	13.24%	10.30%
Sub Total	1,560,847.24		77.86%
TOTAL AVG PROD (ALL REGIONS)	2,004,697.70		

NOTES ON MAIZE

Table A shows the top 5 maize producing regions which accounted for 77.86 percent of total maize produced in Ghana. Eastern region surpassed Brong Ahafo region to become the largest maize producing region, accounting for 22.34 percent of overall total (national average) and 28.70 percent of total production for the top 5 regions. Brong Ahafo however recorded a percentage share of 21.41 of national average.

B. Rice Production (Mt) Statistics

Top 5 Regions	3-Yr Average (2016-2018)	Share of Sub-Tot	Share of Overall Tot
VOLTA	266,308.01	41.58%	36.67%
NORTHERN	178,455.29	27.86%	24.57%
UPPER EAST	114,524.76	17.88%	15.77%
ASHANTI	42,685.97	6.66%	5.88%
WESTERN	38,524.11	6.01%	5.30%
Sub Total	640,498.13		88.20%
TOTAL AVG PROD (ALL REGIONS)	726,228.59		

NOTES ON RICE

Volta Region still remains the leading rice (paddy) producing region in Ghana based on 3-yr average, recording a share of about 37 percent of total production in the country. Interestingly, the Volta Region and the Northern Region contributed more than half (61%) of the overall (national) total in the country. The top 5 regions together contributed an overall share of about 88 percent signifying how important these regions are in terms of rice production (Table B).

C. Sorghum Production (Mt) Statistics

Top 5 Regions	3-Yr Average (2016-2018)	Share of Sub-Tot	Share of Overall Tot
NORTHERN	104,582.25	38.10%	38.10%
UPPER WEST	98,677.21	35.95%	35.95%
UPPER EAST	63,360.12	23.09%	23.09%
VOLTA	6,968.87	2.54%	2.54%
BRONG AHAFO	871.86	0.32%	0.32%
Sub Total	274,460.31		100.00%
TOTAL AVG PROD (ALL REGIONS)	274,460.31		

NOTES ON SORGHUM

Sorghum is mostly grown in the three Northern Regions and these regions together accounted for 97 percent of total production based on 3-yr average. Volta Region and Brong Ahafo Region are the other two regions that produce sorghum and both contributed a share of about 3 percent to the total production in the country. The Northern Region and the Upper West Region respectively contributed a higher share of about 38 percent and 36 percent (Table C).

D. Cassava Production (Mt) Statistics

Top 5 Regions	3-Yr Average (2016-2018)	Share of Sub-Tot	Share of Overall Tot
EASTERN	5,175,501.12	31.14%	26.87%
BRONG AHAFO	4,256,139.63	25.61%	22.10%
ASHANTI	3,009,315.71	18.11%	15.62%
CENTRAL	2,456,198.25	14.78%	12.75%
VOLTA	1,721,558.10	10.36%	8.94%
Sub Total	16,618,712.81		86.28%
TOTAL AVG PROD (ALL REGIONS)	19,260,707.57		

NOTES ON CASSAVA

Eastern Region still remains the leading producer of cassava in Ghana with a share of 26.87 percent of overall (national) total based on a 3-year average production. Brong Ahafo Region follows closely with a share of 22.10 percent. The 5 top producing regions together, account for 86.28 percent of total cassava production in the country. (Table D)

E. Yam Production (Mt) Statistics

Top 5 Regions	3-Yr Average (2016-2018)	Share of Sub-Tot	Share of Overall Tot
BRONG AHAFO	2,556,765.92	35.83%	32.66%
NORTHERN	2,430,732.24	34.06%	31.05%
EASTERN	888,631.11	12.45%	11.35%
UPPER WEST	678,059.99	9.50%	8.66%
VOLTA	582,262.22	8.16%	7.44%
Sub Total	7,136,451.47		91.17%
TOTAL AVG PROD (ALL REGIONS)	7,827,386.03		

NOTES ON YAM

The top 5 yam producing regions in Ghana together share between them a little over 90 percent of national total. The leading producer, Brong Ahafo Region, accounts for 32.66 percent of the entire production. Against the top 5 average, however, the region (Brong Ahafo) share is 35.83 percent. The Northern Region follows, in second place, with a share of about 31 percent of overall total. Brong Ahafo Region and the Northern Region remarkably produces more than half (63.72%) of the overall national production (See Table E for further details).

F. Cowpea Production (Mt) Statistics

Top 5 Regions	3-Yr Average (2016-2018)	Share of Sub-Tot	Share of Overall Tot
NORTHERN	88,130.48	41.81%	40.37%
UPPER WEST	87,819.64	41.66%	40.23%
UPPER EAST	21,314.19	10.11%	9.76%
BRONG AHAFO	7,042.73	3.34%	3.23%
VOLTA	6,488.20	3.08%	2.97%
Sub Total	210,795.26		96.56%
TOTAL AVG PROD (ALL REGIONS)	218,294.81		

NOTES ON COWPEA

The 3 Northern Regions dominate in cowpea production, with a share of about 90 percent of total volume of production in Ghana. The Northern Region alone contributes 40.37 percent of total production in the country, followed closely by Upper West Region, with 40.23 percent share of national total. Volta Region has surpassed Ashanti Region to become the fifth highest producer of cowpea. The top 5 regions together contribute about 97 percent of overall cowpea production in Ghana (Table F).

Appendix 26: Population in Agriculture

A. Households and Members Engaged in Agricultural Activities by Region and District

	Region/District	Households in dwelling units			Household members engaged in Agriculture		
		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

	Region/District	Households in dwelling units			Household members engaged in Agriculture		
		Total	Agriculture	Non-agriculture	Total	Male	Female
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
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	Mfantiman	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							

	Region/District	Households in dwelling units			Household members engaged in Agriculture		
		Total	Agriculture	Non-agriculture	Total	Male	Female
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
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 Municipal	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

	Region/District	Households in dwelling units			Household members engaged in Agriculture		
		Total	Agriculture	Non-agriculture	Total	Male	Female
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
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

	Region/District	Households in dwelling units			Household members engaged in Agriculture		
		Total	Agriculture	Non-agriculture	Total	Male	Female
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
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

	Region/District	Households in dwelling units			Household members engaged in Agriculture		
		Total	Agriculture	Non-agriculture	Total	Male	Female
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
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	Kumbungu	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 Tempene	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

	Region/District	Households in dwelling units			Household members engaged in Agriculture		
		Total	Agriculture	Non-agriculture	Total	Male	Female
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

Source: Ghana Population and Housing Census, GSS (2010)

Appendix 27: Exchange Rate; Ghana Cedis/US Dollar (GH¢/US\$) Equivalent

	2013	2014	2015	2016	2017	2018
Exchange rate (¢/\$)	1.92	2.94	3.78	3.92	4.36	4.59

Source: Ghana Statistical Service (GSS) –2018 Annual GDP, New Series (September 2019)