



# AGRICULTURE IN GHANA

## FACTS AND FIGURES 2019

*Issued By*

**MINISTRY OF FOOD AND AGRICULTURE  
STATISTICS, RESEARCH, AND INFORMATION  
DIRECTORATE**

**APRIL 2020**

## FOREWORD

This document, Agriculture in Ghana: Facts and Figures (2019), has been prepared by the Statistics Research and Information Directorate (SRID) of the Ministry of Food and Agriculture (MOFA). It is the 29<sup>th</sup> 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. 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 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 improvements in the quality and quantity of statistics generated by SRID.

Again, the Ghana Statistical Service in collaboration with the Ministry of Food and Agriculture with funding from the Government, World Bank and FAO, conducted the 2017/18 Ghana Census of Agriculture and the outcome from the census has helped to a large extent resolve gaps in our data.

The Ministry intends to continue with the annual 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 this 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

(April 2020)

## ACKNOWLEDGEMENT

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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 this 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 this 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 this 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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APPENDIX 33: INSTITUTIONS ENGAGED IN PROCESSING OF AGRICULTURE PRODUCE BY REGION .....**Error! Bookmark not defined.**

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*APPENDIX 36: EXCHANGE RATE; GHANA CEDIS/US DOLLAR (GHC/US\$) EQUIVALENT ..... **Error! Bookmark not defined.***

DISTRIBUTION OF OUTSTANDING CREDIT TO THE AGRICULTURAL SECTOR .....**Error! Bookmark not defined.**



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

**Table 1. 1: GEOGRAPHIC, DEMOGRAPHIC AND ECONOMIC BACKGROUND OF THE COUNTRY**

COUNTRY	REPUBLIC OF GHANA
<b>CAPITAL</b>	Accra
<b>TOTAL ADMINISTRATIVE REGIONS</b>	16
<b>TOTAL ADMINISTRATIVE DISTRICTS</b>	260 (Metropolitan = 6, Municipal = 109, District = 145)
<b>POPULATION (2010)</b>	24,658,823 <sup>1</sup>
<b>POPULATION ESTIMATE (2019)</b>	30,282,501 <sup>2</sup>
<b>POPULATION GROWTH RATE:</b>	2.3% per annum
<b>GEOGRAPHIC LOCATION:</b>	Latitude 4° 44'N and 11° 11'N Longitude 3 ° 11' W and 1° 11'E
<b>COASTLINE:</b>	535 km long <sup>3</sup>
<b>TOTAL LAND AREA:</b>	239,542.44 square kilometers
<b>PRINCIPAL AGRICULTURAL EXPORTS:</b>	Cocoa, Timber, Horticultural Products (Pineapple, Banana etc.), Fish/Sea Foods.
<b>PRINCIPAL AGRICULTURAL IMPORTS:</b>	Wheat, Rice, Chicken (frozen), Milk, Fish.
<b>PRINCIPAL MINERAL RESOURCES:</b>	Petroleum, Gold, Bauxite, Manganese and Diamond

<sup>1</sup>2010 National Population and Housing Census (GSS)

<sup>2</sup>Data Processing Unit, GSS Projection

<sup>3</sup>CIA World Fact Book (2017)

## 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
<b>1.0 TOTAL LAND AREA (T.L.A.)</b>	238,533,451 <sup>1</sup>	100.00	
<b>2.0 AGRICULTURE LAND AREA (A.L.A.)</b>	13,600,000	56.90	(2.0/1.0)
<b>2.1 AREA UNDER CULTIVATION (2019)</b>	6,763,500	49.70	(2.1/2.0)
<b>2.1.1 TOTAL AREA UNDER IRRIGATION (2019)</b>	223,009	3.18	(2.1.1/2.1)
<b>3.0 AREA UNDER INLAND WATERS</b>	11,000,002 <sup>2</sup>	4.61	(3.0/1.0)
<b>4.0 OTHERS (FOREST RESERVES, SAVANNAH, WOODLAND ETC.)</b>	8,746,021	36.60	(4.0/1.0)

Sources: SRID, MOFA, Accra, (2019)

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.

<sup>1</sup> The Ghana Survey Dept: 238,533 Square Kilometres

<sup>2</sup> CIA World Fact Book (2017): 11,000 Square Kilometres

**Table 2. 2: LAND USE PATTERN**

LAND USE	(*000) SQ.KM	% OF TOTAL
<b>AGRICULTURE</b>		
ANNUAL CROPS	12	5
TREE CROPS	17	7
BUSH FALLOW AND OTHER USES	60	25
UNIMPROVED PASTURE	36	15
<b>SUB TOTAL</b>	<b>125</b>	<b>52</b>
<b>NON-AGRICULTURE</b>		
FOREST RESERVES	26	11
SAVANNAH WOODLAND	71	30
WILDLIFE RESERVES	12	5
UNRESERVED FOREST	5	2
<b>SUB TOTAL</b>	<b>114</b>	<b>48</b>
<b>TOTAL</b>	<b>239</b>	<b>100</b>

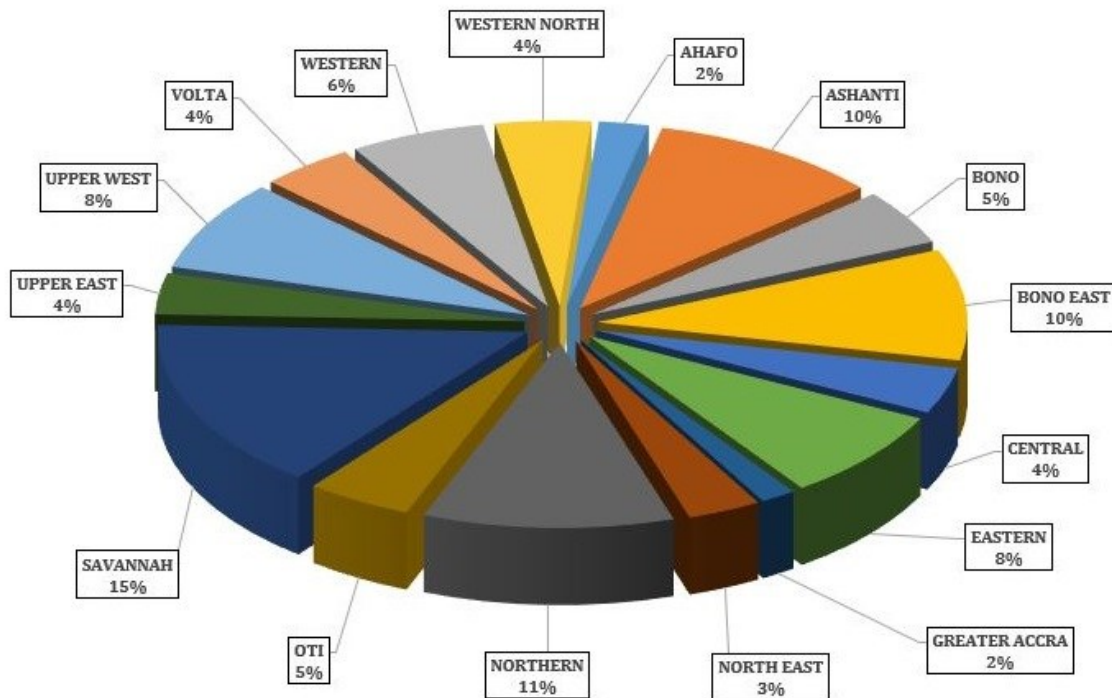
Source: Ministry of Food and Agriculture, Medium Term Agric. Development Program (MTADP), (1990).

Table 2. 3: LAND AREA BY REGION

REGION NAME	AREA_SQKM	% OF TOTAL
AHAFO	5,191.18	2.17
ASHANTI	24,379.00	10.18
BONO	11,639.90	4.86
BONO EAST	23,267.10	9.71
CENTRAL	9,659.70	4.03
EASTERN	18,987.60	7.93
GREATER ACCRA	3,706.52	1.55
NORTH EAST	7,704.76	3.22
NORTHERN	26,264.20	10.96
OTI	11,093.10	4.63
SAVANNAH	35,861.60	14.97
UPPER EAST	8,627.21	3.60
UPPER WEST	19,022.10	7.94
VOLTA	9,855.17	4.11
WESTERN	14,217.20	5.94
WESTERN NORTH	10,066.10	4.20
<b>TOTAL</b>	<b>239,542.44</b>	<b>100.00</b>

Source: The Ghana Survey Dept. (2019).

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.

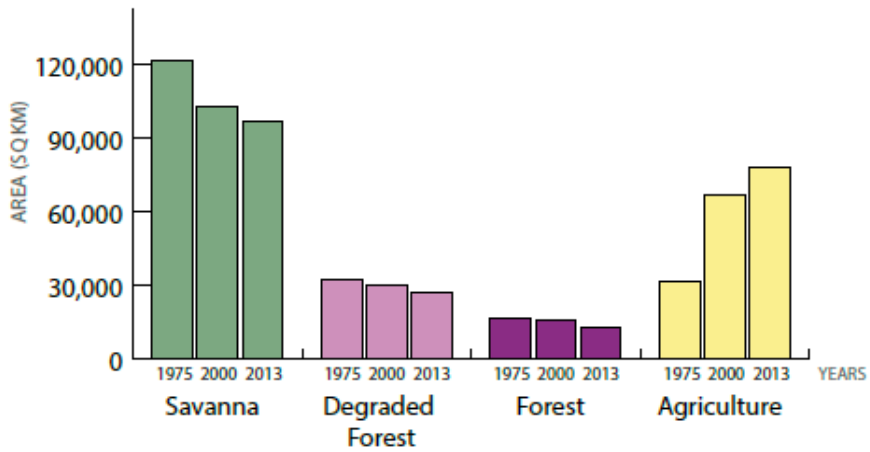
Another important land cover change in Ghana is the degradation of forests. The forest class (represented primarily by Ghana's dense evergreen rain forest and moist deciduous forest) shows a small decline in area from about 16,400 sq. km in 1975 to 15,500 sq. km in 2000, a reduction of 5 percent. This 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/westafrica/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)**

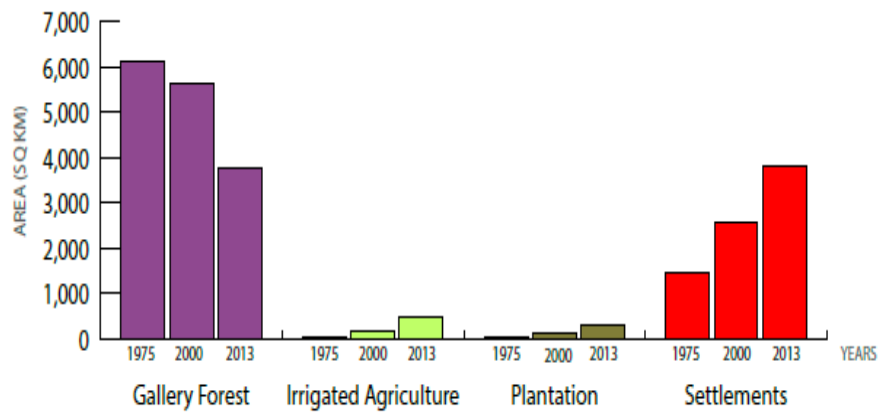
LAND COVER CLASSES	1975		2000		2013	
	AREA (KM <sup>2</sup> )	PERCENT OF TOTAL AREA	AREA (KM <sup>2</sup> )	PERCENT OF TOTAL AREA	AREA (KM <sup>2</sup> )	PERCENT OF TOTAL AREA
AGRICULTURE	31,600	13.22	67,364	28.00	77,896	33.00
AGRICULTURE IN SHALLOWS AND RECESSION	4	0.00	4	0.00	64	0.00
BARE SOIL	84	0.04	104	0.04	100	0.00
CLOUD	15,512	6.49	224	0.09	-	0.00
DEGRADED FOREST	33,008	13.81	30,528	12.77	27,452	11.00
FOREST	16,444	6.88	15,560	6.51	12,420	5.00
GALLERY FOREST AND RIPARIAN FOREST	6,172	2.58	5,636	2.36	3,756	2.00
HERBACEOUS SAVANNA	440	0.18	440	0.18	440	0.00
IRRIGATED AGRICULTURE	28	0.01	164	0.07	504	0.00
MANGROVE	20	0.01	40	0.02	24	0.00
OPEN MINE	-	0.00	128	0.05	428	0.00
PLANTATION	48	0.02	116	0.05	316	0.00
ROCKY LAND	56	0.02	52	0.02	24	0.00
SANDY AREA	16	0.01	16	0.01	40	0.00
SAVANNA	121,580	50.86	103,368	43.24	96,736	40.00
SETTLEMENTS	1,468	0.61	2,564	1.07	3,836	2.00
WATER BODIES	8,372	3.50	8,000	3.35	8,508	4.00
WETLAND – FLOODPLAIN	4,044	1.69	4,516	1.89	6,276	3.00
WOODLAND	136	0.06	208	0.09	212	0.00
<b>TOTAL MAPPED AREA (KM<sup>2</sup>)</b>	<b>239,032</b>		<b>239,032</b>		<b>239,032</b>	

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 based on 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 (2019)**

AGRO-ECOLOGICAL ZONE	MEAN ANNUAL RAIN (MM)	GROWING PERIOD (DAYS)	
		MAJOR SEASON	MINOR SEASON
RAIN FOREST	1,800	130 - 140	90
DECIDUOUS FOREST	1,300	130 - 160	80
TRANSITIONAL	1,300	130 - 200	70
COASTAL SAVANNAH	900	90 - 120	40
<b>NORTHERN SAVANNAH:</b>			
GUINEA SAVANNAH	1,100	190 - 230	*
SUDAN SAVANNAH	1,000	180 - 200	*

Source: Ghana Meteorological Agency (GMet), Accra - 2020

\*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
<b>GUINEA SAVANNA WOODLAND</b>	147.9	62.0
<b>DECIDUOUS FOREST</b>		
- CELTIS -TRIPLOCHITON ASSOCIATION	37.3	15.6
- ANTIARIS CHLOROPHORA ASSOCIATION	27	11.3
<b>RAIN/DECIDUOUS FOREST ECO-ZONE</b>	8.4	3.5
<b>RAIN FOREST</b>	7.5	3.2
<b>THICKET AND GRASSLAND</b>	4.5	1.9
<b>SUDAN SAVANNA WOODLAND</b>	1.9	0.8
<b>SWAMP AND LAGOONAL VEGETATION</b>	1.3	0.6
<b>OTHERS</b>	2.7	1.1
<b>TOTAL</b>	<b>238.5</b>	<b>100.0</b>

Source: Ministry of Lands and Natural Resources (MLNR), 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	4.10-7.30	0.00-13.83	0.00-0.52	0.00-6.98	0.00-9.62
BRONG AHAFO	4.10-7.70	0.00-13.83	0.00-0.52	0.00-0.41	0.00-9.62
CENTRAL REGION	4.40-7.70	0.00-4.30	0.00-0.37	0.00-9.80	0.00-2.40
EASTERN REGION	4.10-7.80	0.00-8.19	0.00-0.37	0.00-3.48	0.00-9.62
GREATER ACCRA	4.40-9.50	0.00-4.00	0.00-0.32	0.00-6.62	0.00-9.28
NORTHERN	4.10-7.40	0.00-6.74	0.00-0.14	0.00-7.60	0.00-7.85
UPPER EAST	4.10-7.40	0.54-6.74	0.00-0.14	0.00-3.62	0.00-7.72
UPPER WEST	4.50-7.40	0.77-6.74	0.00-0.07	0.00-3.62	0.00-4.79
VOLTA REGION	4.10-7.80	0.00-5.63	0.00-0.02	0.00-6.62	0.00-9.28
WESTERN	4.40-6.70	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	4.40-9.50	0.00-8.00	0.07-0.37	0.00-6.62	0.00-9.28
DECIDIOUS FOREST	4.40-9.50	0.00-13.83	0.00-0.52	0.00-3.48	0.00-9.62
MOIST EVERGREEN	4.40-7.70	0.69-13.83	0.00-0.37	<0.02	0.00-1.21
WET EVERGREEN	4.40-7.70	0.69-13.83	0.00-0.37	0.00-8.19	0.00-1.21
TRASITIONAL	4.10-7.70	0.00-10.3	0.00-0.52	0.00-2.00	0.00-9.62
GUINEA SAVANA	4.10-7.40	0.00-6.74	0.00-0.14	0.00-7.60	0.00-7.85
SUDAN SAVANA	4.10-7.40	0.54-5.89	0.00-0.10	0.00-3.62	0.00-7.72

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

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<sup>0</sup>C in places near the coast to 28.9<sup>0</sup>C in the extreme north. It is usually breezy and sunny. Day time temperatures may rise above 40<sup>0</sup>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 (unimodal rainfall system). These define the farming seasons of Ghana (Major and Minor seasons).

**Table 2. 9: ANNUAL REGIONAL RAINFALL DATA IN MM (2009- 2019)**

REGION	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	10-YR AVERAGE	30-YR AVERAGE*	(%) CHANGE 2019/30-YR AVERAGE	(%) CHANGE 2019/2018
<b>WESTERN</b>	1,385	1,749	1,445	1,298	1,025	1,654	1,144	1,268	1,780	1,512	1,681	1,426	1,558	7.9	11.2
<b>CENTRAL</b>	1,195	1,359	1,144	1,029	920	1,447	1,051	894	1,551	1,743	1,662	1,233	1,252	32.8	-4.6
<b>GREATER ACCRA</b>	805	871	812	646	365	777	689	786	833	830	884	741	788	12.2	6.5
<b>VOLTA</b>	1,212	1,009	928	1,061	1,075	1,368	1,213	1,085	1,189	1,105	1,483	1,125	1,340	10.6	34.2
<b>EASTERN</b>	1,211	1,477	1,337	1,204	1,080	1,271	999	1,171	1,547	1,277	1,395	1,257	1,180	18.3	9.3
<b>ASHANTI</b>	1,380	1,397	1,170	1,224	1,215	1,381	1,025	790	1,303	1,463	1,175	1,235	1,345	-12.7	-19.7
<b>BRONG AHAFO</b>	1,148	1,251	823	1,049	1,814	1,239	1,048	852	1,061	1,273	1,325	1,156	1,244	6.5	4.1
<b>NORTHERN</b>	1,292	1,361	1,083	1,002	1,066	1,084	870	860	1,017	1,207	1,135	1,084	1,155	-1.8	-6.0
<b>UPPER EAST</b>	884	984	665	956	997	707	918	503	857	950	1,862	842	912	104.2	96.0
<b>UPPER WEST</b>	1,086	630	523	1,136	434	300	724	448	747	714	1,097	674	1,022	7.3	53.6
<b>TOTAL</b>	<b>11,598</b>	<b>12,088</b>	<b>9,929</b>	<b>10,605</b>	<b>9,992</b>	<b>11,228</b>	<b>9,679</b>	<b>8,658</b>	<b>11,885</b>	<b>12,074</b>	<b>13,699</b>	<b>10,774</b>	<b>11,796</b>	<b>185.4</b>	<b>184.5</b>
<b>AVERAGE</b>	<b>1,160</b>	<b>1,209</b>	<b>993</b>	<b>1,061</b>	<b>999</b>	<b>1,123</b>	<b>968</b>	<b>866</b>	<b>1,189</b>	<b>1,207</b>	<b>1,370</b>	<b>1,077</b>	<b>1,180</b>	<b>18.4</b>	<b>18.5</b>

Source: Ghana Meteorological Agency

2009 – 2019 rainfall data

\*30-yr average (1961 – 1990)

## SECTION 3: POPULATION IN AGRICULTURE

### 3.1 AGRICULTURAL AND NON-AGRICULTURAL HOUSEHOLDS

**Table 3. 1: DISTRIBUTION OF AGRICULTURAL AND NON-AGRICULTURAL HOUSEHOLDS BY REGION**

REGION	HOUSEHOLDS	AGRIC. HOUSEHOLDS	NON-AGRIC. HOUSEHOLDS	HOUSEHOLDS IN CAPTURE FISHERIES		OTHER NON-AGRIC. HOUSEHOLDS
				AGRIC. HOUSEHOLDS	NON-AGRIC. HOUSEHOLDS	
<b>ALL REGIONS</b>	<b>4,864,276</b>	<b>2,568,146</b>	<b>2,296,130</b>	<b>49,149</b>	<b>37,733</b>	<b>2,258,908</b>
WESTERN	475,820	280,496	195,324	3,401	4,502	190,000
CENTRAL	519,869	260,347	259,522	1,331	8,838	250,000
<b>GREATER ACCRA</b>	<b>834,058</b>	<b>91,236</b>	<b>742,822</b>	<b>2,930</b>	<b>6,230</b>	<b>736,000</b>
VOLTA	449,200	283,288	165,912	14,808	11,265	154,000
EASTERN	505,788	314,574	191,214	10,679	2,010	189,000
ASHANTI	910,647	436,019	474,628	895	184	474,000
BRONG-AHAFO	460,879	319,548	141,331	3,819	3,385	137,000
NORTHERN	373,707	297,743	75,964	8,148	1,295	74,000
UPPER EAST	213,644	186,859	26,785	2,048	16	26,000
UPPER WEST	120,664	98,036	22,628	1,090	8	22,000

Source: Ghana Statistical Services (GSS): Ghana Census of Agriculture (2018)

### 3.2 DISTRIBUTION OF AGRICULTURE HOUSEHOLDS BY REGION BY LOCALITY TYPE

**Table 3. 2: DISTRIBUTION OF AGRICULTURAL AND NON-AGRICULTURE INSTITUTIONS BY REGION**

REGION	INSTITUTIONS	AGRIC. INSTITUTIONS	NON-AGRIC. INSTITUTIONS	AGRIC. INSTITUTIONS	CAPTURE FISHERIES	
					NON-AGRIC. INSTITUTIONS	OTHER NON-AGRIC. INSTITUTIONS
<b>ALL REGIONS</b>	<b>578,641</b>	<b>37,000</b>	<b>541,641</b>	<b>177</b>	<b>292</b>	<b>541,349</b>
WESTERN	67,355	3,739	63,616	11	52	63,564
CENTRAL	54,659	3,338	51,321	11	76	51,245
<b>GREATER ACCRA</b>	<b>152,625</b>	<b>4,058</b>	<b>148,567</b>	<b>32</b>	<b>69</b>	<b>148,498</b>
VOLTA	31,745	2,957	28,788	34	34	28,754
EASTERN	61,717	6,006	55,711	65	16	55,695
ASHANTI	85,034	5,844	79,190	6	20	79,170
BRONG-AHAFO	45,863	4,215	41,648	5	12	41,636
NORTHERN	38,590	2,998	35,592	6	6	35,586
UPPER EAST	24,164	2,182	21,982	3	5	21,977
UPPER WEST	16,889	1,663	15,226	4	2	15,224

Source: Ghana Statistical Services (GSS): Ghana Census of Agriculture (2018)

### 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: AGRICULTURE INSTITUTIONS BY REGION*

REGION	ALL INSTITUTIONS	AGRICULTURE INSTITUTIONS	PROPORTION OF INSTITUTIONS ENGAGED IN AGRICULTURE
<b>ALL REGIONS</b>	<b>578,641</b>	<b>37,000</b>	<b>6</b>
<b>WESTERN</b>	67,355	3,739	6
<b>CENTRAL</b>	54,659	3,338	6
<b>GREATER ACCRA</b>	152,625	4,058	3
<b>VOLTA</b>	31,745	2,957	9
<b>EASTERN</b>	61,717	6,006	10
<b>ASHANTI</b>	85,034	5,844	7
<b>BRONG-AHAFO</b>	45,863	4,215	9
<b>NORTHERN</b>	38,590	2,998	8
<b>UPPER EAST</b>	24,164	2,182	9
<b>UPPER WEST</b>	16,889	1,663	10

Source: Ghana Statistical Services (GSS): Ghana Census of Agriculture (2018)

**Table 3. 4: AGRICULTURAL HOUSEHOLDS BY TYPE OF ACTIVITY AND REGION**

REGION	AGRICULTURAL HOUSEHOLDS	TYPE OF AGRICULTURAL ACTIVITY (%)					
		ARABLE CROPS	TREE CROPS	POULTRY & LIVESTOCK	AQUACULTURE	FOREST TREES	BEE-KEEPING
<b>ALL REGIONS</b>	<b>2,568,146</b>	<b>91.2</b>	<b>46.2</b>	<b>41.1</b>	<b>0.3</b>	<b>2.0</b>	<b>0.4</b>
<b>WESTERN</b>	280,496	83.4	78.3	35.1	0.5	4.5	1.1
<b>CENTRAL GREATER ACCRA</b>	260,347	91.2	67.6	30.8	0.3	2.1	0.2
<b>VOLTA</b>	91,236	67.9	27.6	32.6	1.1	0.7	0.1
<b>EASTERN</b>	283,288	93.6	21.2	36.5	0.3	1.1	0.6
<b>ASHANTI</b>	314,574	90.5	58.0	39.7	0.2	1.3	0.2
<b>BRONG-AHAFO</b>	436,019	90.9	64.4	30.7	0.2	1.4	0.3
<b>NORTHERN</b>	319,548	91.5	58.3	32.1	0.2	2.4	0.3
<b>UPPER EAST</b>	297,743	97.1	10.4	58.9	0.2	1.2	0.7
<b>UPPER WEST</b>	186,859	98.0	6.9	75.3	0.2	3.4	0.3
<b>UPPER WEST</b>	98,036	97.5	11.8	66.5	0.1	0.6	0.5

Source: Ghana Statistical Services (GSS): Ghana Census of Agriculture (2018)

**Table 3. 5: HOUSEHOLDS ENGAGED IN PROCESSING OF AGRICULTURE PRODUCE BY REGION**

REGION	HOUSEHOLDS	AGRIC. HOUSEHOLDS	AGRIC. HOUSEHOLDS ENGAGED IN PROCESSING		NON- AGRIC. HOUSEHOLDS	NON-AGRIC. HOUSEHOLD ENGAGED IN PROCESSING	
			NUMBER	SHARE		NUMBER	SHARE
<b>ALL REGIONS</b>	<b>4,864,276</b>	<b>2,568,146</b>	<b>511,492</b>	<b>100</b>	<b>2,296,130</b>	<b>64,025</b>	<b>100</b>
<b>WESTERN</b>	475,820	280,496	43,895	9	195,324	6,944	11
<b>CENTRAL GREATER ACCRA</b>	519,869	260,347	73,059	14	259,522	15,132	24
<b>VOLTA</b>	834,058	91,236	15,425	3	742,822	12,319	19
<b>EASTERN</b>	449,200	283,288	108,012	21	165,912	8,610	13
<b>ASHANTI</b>	505,788	314,574	66,282	13	191,214	4,932	8
<b>BRONG-AHAFO</b>	910,647	436,019	59,465	12	474,628	6,970	11
<b>NORTHERN</b>	460,879	319,548	22,898	5	141,331	3,418	5
<b>UPPER EAST</b>	373,707	297,743	60,215	12	75,964	3,359	5
<b>UPPER WEST</b>	213,644	186,859	35,049	7	26,785	1,268	2
<b>UPPER WEST</b>	120,664	98,036	27,192	5	22,628	1,073	2

Source: Ghana Statistical Services (GSS): Ghana Census of Agriculture (2018)

**Table 3. 6: INSTITUTIONS ENGAGED IN MARKETING OF AGRICULTURE PRODUCE BY REGION**

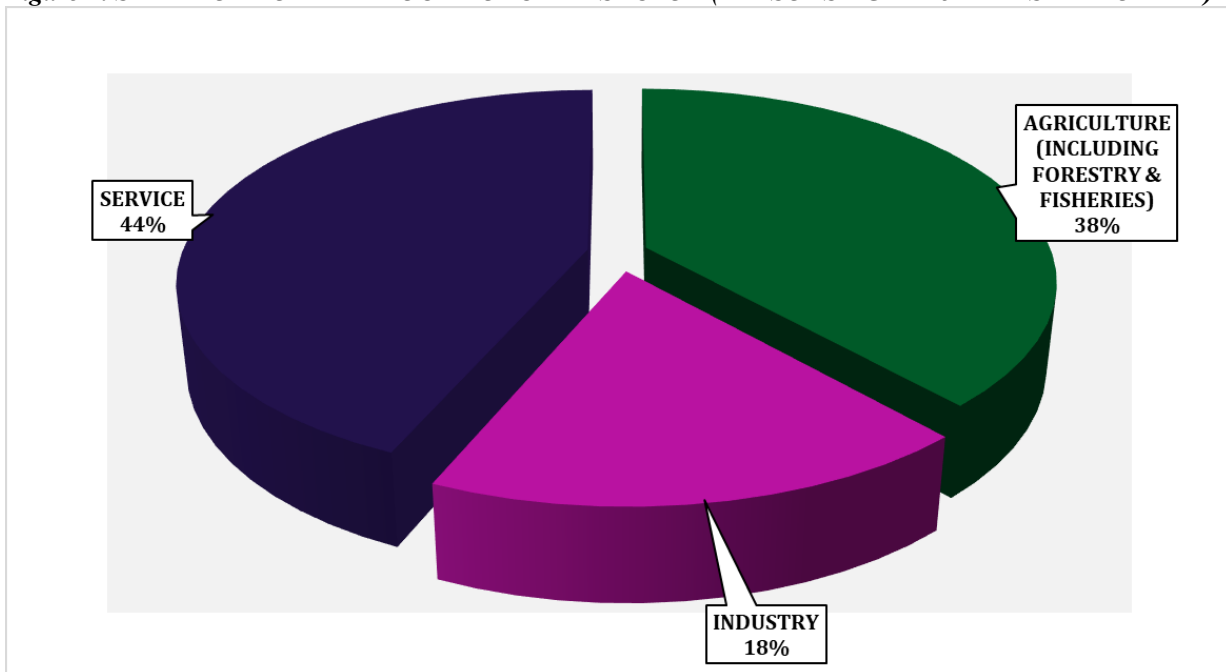
REGION	ALL INSTITUTIONS	AGRIC. INSTITUTIONS	AGRIC. INSTITUTIONS ENGAGED IN MARKETING		NON-AGRIC. INSTITUTIONS	NON-AGRIC. INSTITUTIONS ENGAGED IN MARKETING	
			NUMBER	SHARE (%)		NUMBER	SHARE (%)
ALL REGIONS	578,641	37,000	15,209	100	541,641	38,222	100
WESTERN	67,355	3,739	1,968	13	63,616	6,015	16
CENTRAL GREATER ACCRA	54,659	3,338	2,026	13	51,321	4,350	11
VOLTA	152,625	4,058	2,372	16	148,567	9,962	26
EASTERN	31,745	2,957	1,518	10	28,788	1,435	4
ASHANTI BRONG- AHAFO	61,717	6,006	2,206	15	55,711	3,550	9
NORTHERN	85,034	5,844	2,215	15	79,190	5,137	13
UPPER EAST	45,863	4,215	1,036	7	41,648	2,794	7
UPPER WEST	38,590	2,998	913	6	35,592	1,525	4
	24,164	2,182	563	4	21,982	2,481	7
	16,889	1,663	392	3	15,226	973	3

Source: Ghana Statistical Services (GSS): Ghana Census of Agriculture (2018)

### 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, Okra, Egg Plant, Onion.

*Table 4. 1: ANNUAL AREA PLANTED TO MAJOR FOOD CROPS, ('000 HA)*

CROP	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
MAIZE	992	1,023	1,042	1,023	1,025	880	865	985	1,021	1,150
MILLET	177	179	172	161	162	162	137	156	142	148
RICE	181	197	189	216	224	233	236	241	260	282
SORGHUM	253	243	231	226	227	228	201	224	228	226
CASSAVA	875	889	869	875	889	917	879	917	977	1,021
COCOYAM	205	204	196	194	200	200	206	204	203	214
PLANTAIN	328	336	337	340	357	363	358	363	387	409
YAM	385	204	426	422	428	430	427	493	470	500
SOYA BEAN	91	86	85	85	87	86	87	102	103	112
GROUNDNUT	333	357	345	329	335	336	327	316	320	337
COWPEA	167	182	169	162	166	163	147	154	157	169

Source: (MRACLS/GAPS) – SRID, MOFA (2019)

*Table 4. 2: ANNUAL AREA PLANTED TO OTHER SELECTED CROPS, ('000 HA)*

CROP	2011	2012	2013	2014	2015	2016	2017	2018	2019
COCOA	1,600	1,601	1,651	1,684	1,717	1,752	1,787	1,827	
OIL PALM	382	397	409	349	426	434	347	351	359
CASHEW	82	87	89	91	93	95	95	119	146
COCONUT	25	25	26	27	27	28	28	29	29
RUBBER	26	26	27	27	28	28	29	30	30
CITRUS	16	17	17	17	18	18	18	19	19
COFFEE	0	0	1	1	1	1	1	1	1
MANGO	7	7	7	8	8	8	8	8	8
BANANA	8	8	8	8	8	8	8	9	9
PAWPAW	1	2	2	2	2	2	2	2	2
PINEAPPLE	10	10	10	11	11	11	11	11	12
TOMATO	45	45	46	47	48	49	50	51	52
PEPPER (CHILLI)	13	14	14	14	15	15	15	16	16
SHALLOT	5	5	5	6	6	6	6	6	6
OKRO	3	3	3	3	3	3	3	3	4
ONION	8	8	8	8	9	9	9	9	9
GARDEN EGGS	6	6	6	6	7	7	7	7	7

Source: Statistics, Research, and Information Directorate (SRID), MOFA, Projections - 2019



**Table 4. 3: AVERAGE CROPPED AREA AND GROWTH RATES FOR SELECTED CROPS**

CROP	AVERAGE AREA ('000 HA)		GROWTH RATE (%)	AVERAGE AREA ('000 HA)		GROWTH RATE (%)
	2008-2010	2011-2013		2014-2016	2017-2019	
MAIZE	931	1,030	3.4	923	1,052	4.4
RICE (PADDY)	153	201	9.5	231	261	4.1
MILLET	182	171	-2.1	154	148	-1.2
SORGHUM	265	233	-4.1	219	226	1.1
CASSAVA	867	878	0.4	895	972	2.8
COCOYAM	227	198	-4.4	202	207	0.8
YAM	370	417	4.0	428	480	3.8
PLANTAIN	322	338	1.7	308	387	7.8
GROUNDNUT	340	344	0.3	343	324	-1.8
COWPEA	164	171	1.5	159	160	0.3
SOYBEAN	72	85	5.9	87	106	6.9

Source: Based on Table 4.1 and Appendix 16

Growth Rate is based on the comparison of the average of 2008 – 2010 with the average of 2011 – 2013 and the average of 2014 - 2016 with average of 2017 – 2019.

**Table 4. 4: ANNUAL PRODUCTION OF MAJOR FOOD CROPS, ('000MT)**

CROP	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
MAIZE	1,872	1,683	1,950	1,764	1,769	1,692	1,722	2,011	2,306	2,911
MILLET	219	183	180	155	155	157	159	163	182	230
RICE (PADDY)	492	463	481	570	604	641	688	722	769	925
RICE (MILLED)*	295	278	332	393	417	443	475	498	531	638
SORGHUM	324	287	280	257	259	263	230	278	316	347
CASSAVA	13,504	14,240	14,547	15,990	16,524	17,213	17,798	19,008	20,846	22,750
COCOYAM	1,355	1,299	1,270	1,261	1,299	1,301	1,344	1,387	1,461	1,551
PLANTAIN	3,538	3,619	3,556	3,675	3,828	3,952	4,000	4,279	4,688	5,479
YAM	5,960	5,855	6,639	7,075	7,119	7,296	7,440	8,253	7,789	8,754
GROUNDNUT	531	465	475	409	427	417	426	438	521	563
COWPEA	219	237	223	200	201	203	206	211	237	254
SOYA BEAN	145	165	152	139	141	142	143	170	177	193

Source: Regional and District Cropped Area, Yield and Production Estimates (2010 – 2019) - Statistics, Research and Information Directorate (SRID), MOFA.

Note: \*Milled rice from 2008 to 2011 used extraction rate of 60%; from 2012-2019 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 (2017-2019), 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 5a.1: MAIZE

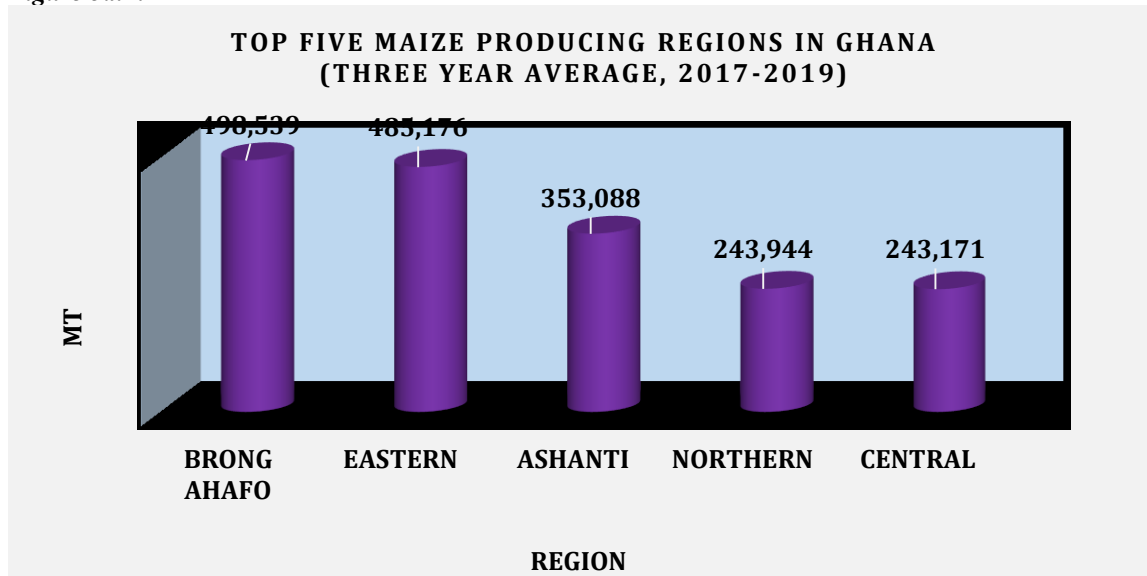


Figure 6a.2: RICE

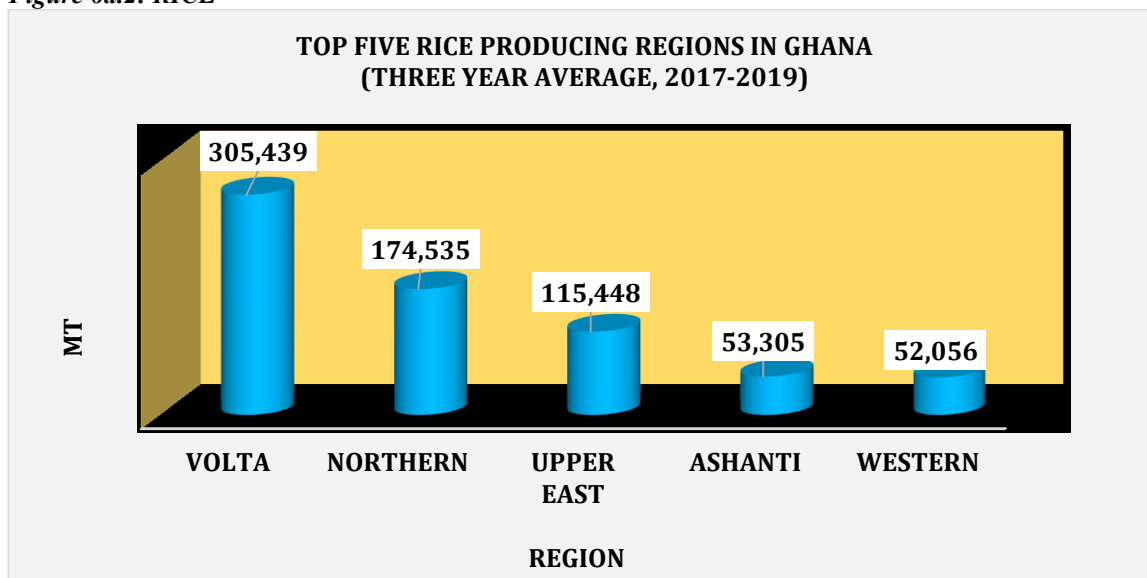
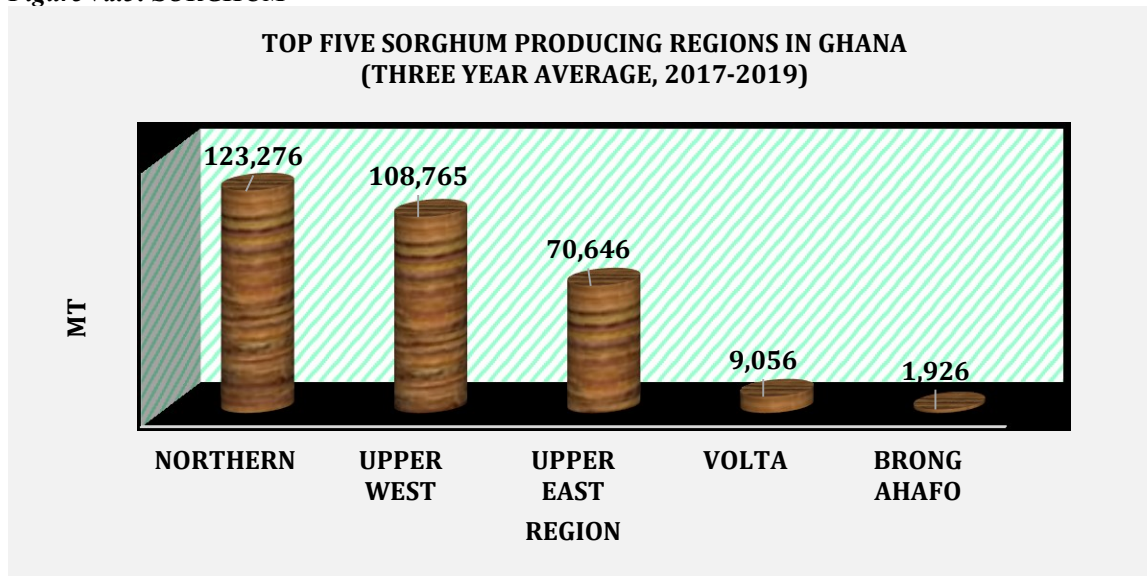


Figure 7a.3: SORGHUM



**5B: ROOTS AND TUBERS**

Figure 8b.1: CASSAVA

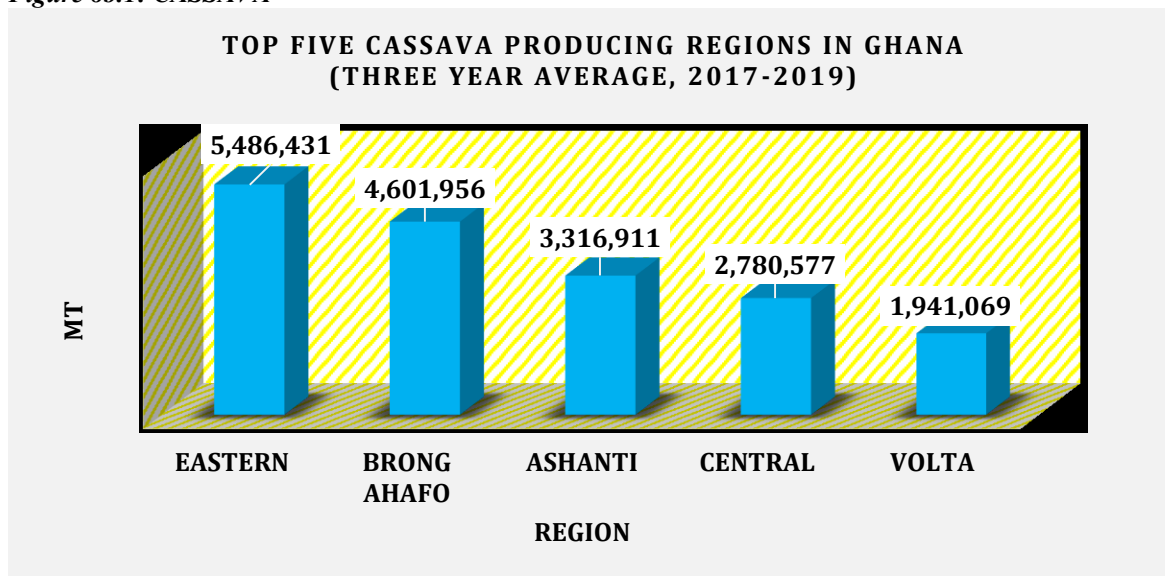


Figure 9b.2: YAM

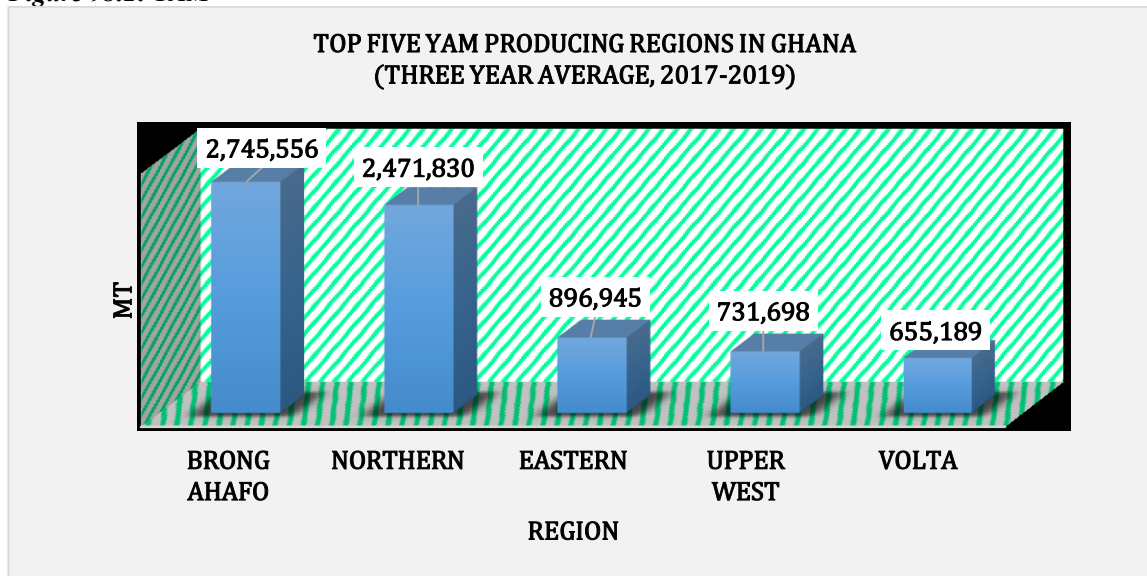
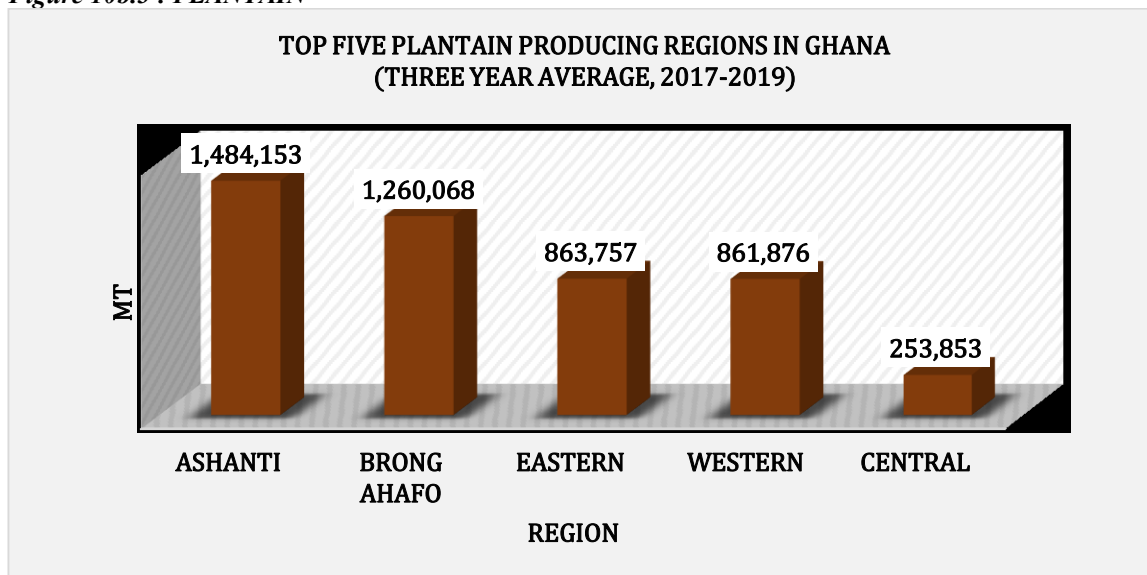


Figure 10b.3 : PLANTAIN



5C: LEGUMES

Figure 11c.1 : COWPEA

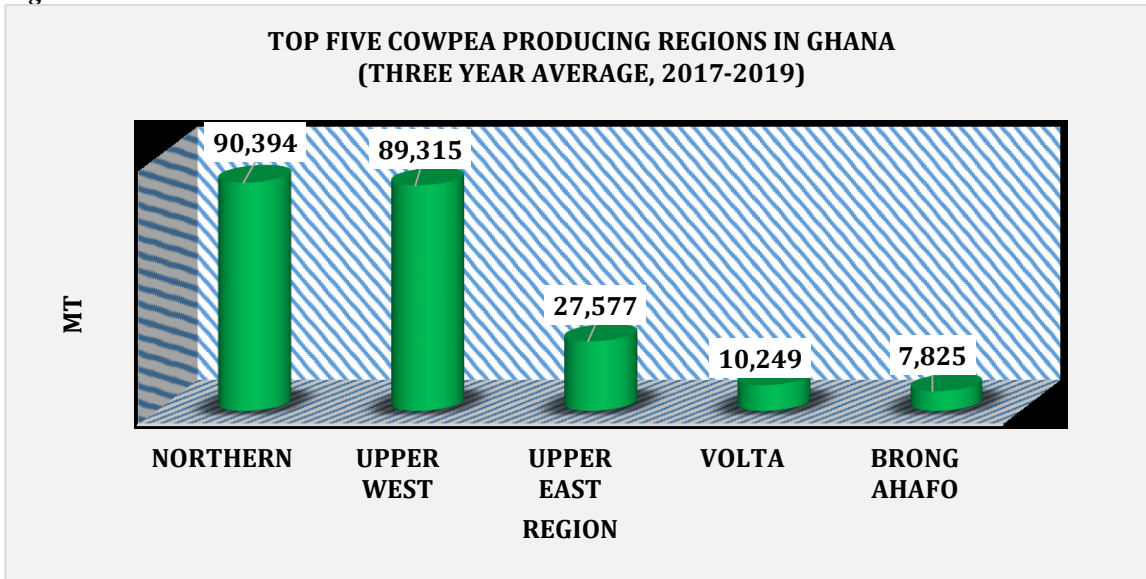


Figure 12c.2 : GROUNDNUT

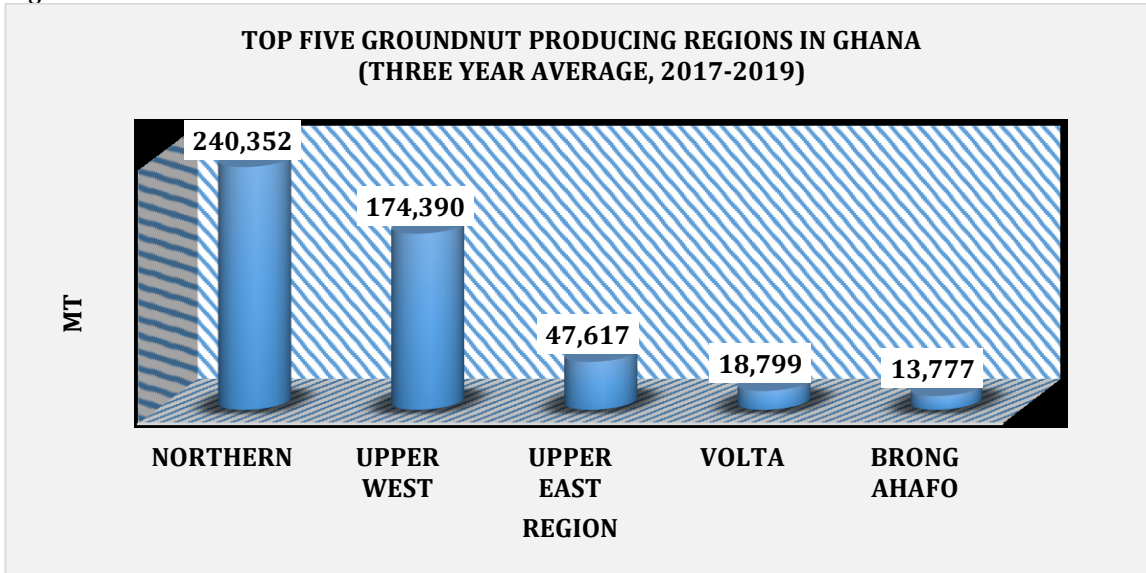
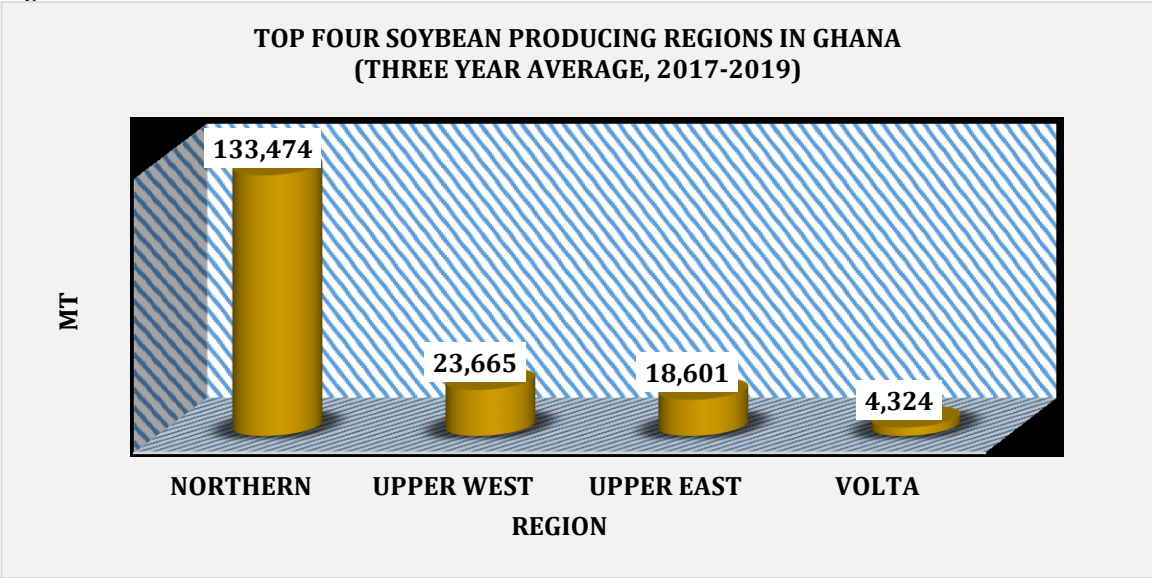


Figure 13c.3 : SOYBEAN



**Table 4. 5: AVERAGE PRODUCTION AND GROWTH RATE OF SELECTED CROPS**

CROP	AVERAGE PRODUCTION ('000 MT)		GROWTH RATE (%)	AVERAGE PRODUCTION ('000 MT)		GROWTH RATE (%)
	2008-2010	2011-2013		2014-2016	2017-2019	
<b>MAIZE</b>	1,654	1,800	2.8	1,728	2,390	11.3
<b>RICE (PADDY)</b>	395	505	8.4	644	806	7.7
<b>MILLET</b>	219	173	-7.6	157	192	6.8
<b>SORGHUM</b>	345	275	-7.2	251	314	7.7
<b>CASSAVA</b>	12,362	14,926	6.4	17,178	20,868	6.6
<b>COCOYAM</b>	1,516	1,277	-5.5	1,315	1,466	3.7
<b>YAM</b>	5,511	6,523	5.7	7,285	8,133	3.7
<b>PLANTAIN</b>	3,479	3,617	1.3	3,925	4,815	7.0
<b>GROUNDNUTS</b>	495	450	-3.1	423	506	6.1
<b>COWPEA</b>	201	220	3.0	204	234	4.7
<b>SOYBEAN</b>	111	152	10.9	142	180	8.1

Source: Based on table 4.4 and Appendix 15. Growth Rate is based on the comparison of the average of 2008 – 2010 with the average of 2011 – 2013 and the average of 2014 - 2016 with average of 2017 – 2019.

**Table 4. 6: AVERAGE YIELD OF SELECTED CROPS UNDER RAIN-FED CONDITIONS**

<b>CROP</b>	<b>AVERAGE YIELD (ON FARM) (MT/HA) 2019**</b>	<b>POTENTIAL YIELD (MT/HA) *</b>	<b>% ACHIEVED</b>
CASSAVA	22.2	45.0	49.4%
PLANTAIN	13.4	38.0	35.2%
YAM	17.5	52.0	33.7%
COCOYAM	7.2	20.0	36.2%
MAIZE	2.5	5.5	46.0%
RICE (PADDY)	3.3	6.0	54.7%
COWPEA	1.5	2.5	60.0%
SOYA BEAN	1.7	3.0	57.3%
GROUNDNUT	1.7	3.5	47.7%
MILLET	1.6	2.0	78.0%
SORGHUM	1.5	2.0	76.5%
SWEET POTATO	15.0	56.0	26.8%
TARO	7.0	20.0	35.0%
COCOA	0.5	1.0	54.0%
COFFEE	1.7	-	-
CASHEW	0.4	1.8	24.4%
ORANGE	41.4	100.0	41.4%
PAWPAW	37.1	75.0	49.5%
MANGO	13.0	13.0	100.0%
PINEAPPLE	66.2	72.0	92.0%
COTTON	0.8	-	-
RUBBER	0.9	-	-
TOBACCO	1.6	-	-
TOMATO	7.9	20.0	39.7%
GARDEN EGGS	8.5	15.0	56.3%
PEPPER	8.9	30.0	29.6%

*\*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 (2017-2019) by district, with both the national average and potential (achievable) yields for each crop.

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

*Table 4. 7.1a: AVERAGE YIELD PERFORMANCE FOR MAIZE BY DISTRICT (TOP 10 DISTRICTS)*

MAIZE (MT/HA)							NATIONAL AVERAGE	2.48
							POTENTIAL YIELD	5.50
REGION	DISTRICT	2017	2018	2019	3-YEAR AVERAGE	RANK	AVERAGE YIELD AS % OF NATIONAL AVERAGE	AVERAGE YIELD AS % OF POTENTIAL YIELDS
EASTERN	WEST AKIM	4.08	4.10	4.10	4.09	1	165.03	74.40
EASTERN	UPPER WEST AKIM	4.08	4.08	4.10	4.09	2	164.76	74.27
EASTERN	ACHIASE	4.08	4.08	3.35	3.84	3	154.68	69.73
CENTRAL	GOMOA EAST	2.80	3.70	3.80	3.43	4	138.47	62.42
ASHANTI	BEKWAI (AMANSIE EAST)	3.25	3.38	3.67	3.43	4	138.47	62.42
CENTRAL	TWIFO ATTI MORKWA	3.40	3.39	3.50	3.43	6	138.34	62.36
UPPER WEST	SISSALA EAST	3.42	3.43	3.43	3.43	7	138.17	62.29
CENTRAL	TWIFO-HERMAN/L. DENKYIRA	3.40	3.39	3.40	3.40	8	136.99	61.76
CENTRAL	ABURA-ASEBU-KWAMANKESE	3.20	3.40	3.40	3.33	9	134.44	60.61
EASTERN	BIRIM SOUTH	3.22	3.28	3.35	3.28	10	132.43	59.70

**Table 4. 7.1b: AVERAGE YIELD PERFORMANCE FOR RICE BY DISTRICT (TOP 10 DISTRICTS)**

							NATIONAL AVERAGE	3.28
RICE (MT/HA)							POTENTIAL YIELD	6.00
REGION	DISTRICT	2017	2018	2019	3-YEAR AVERAGE	RANK	AVERAGE YIELD AS % OF NATIONAL AVERAGE	AVERAGE YIELD AS % OF POTENTIAL YIELDS
VOLTA	KETU NORTH	5.95	6.10	6.67	6.24	1	190.23	104.00
VOLTA	HOHOE MUNICIPAL	5.68	5.87	6.38	5.98	2	182.20	99.61
OTI	JASIKAN	5.80	5.81	6.07	5.89	3	179.66	98.22
VOLTA	SOUTH TONGU	5.70	5.70	5.98	5.79	4	176.61	96.56
GREATER ACCRA	ASHAIMAN	7.10	5.00	5.10	5.73	5	174.79	95.56
VOLTA	NORTH TONGU	5.10	5.00	5.72	5.27	6	160.76	87.89
OTI	KADJEBI	4.70	5.00	5.96	5.22	7	159.14	87.00
OTI	NKWANTA SOUTH	4.60	5.01	5.82	5.14	8	156.80	85.72
OTI	BIAKOYE	4.90	4.92	5.52	5.11	9	155.88	85.22
VOLTA	AFADZATO SOUTH	4.62	4.94	5.46	5.01	10	152.63	83.44

**Table 4. 7.1c: AVERAGE YIELD PERFORMANCE FOR MILLET BY DISTRICT (TOP 10 DISTRICTS)**

							NATIONAL AVERAGE	1.56
MILLET (MT/HA)							POTENTIAL YIELD	2.00
REGION	DISTRICT	2017	2018	2019	3-YEAR AVERAGE	RANK	AVERAGE YIELD AS % OF NATIONAL AVERAGE	AVERAGE YIELD AS % OF POTENTIAL YIELDS
UPPER EAST	TALENSI	4.38	1.20	1.30	2.29	1	147.30	114.73
NORTH EAST	WEST MAMPRUSI	2.10	2.10	2.10	2.10	2	134.81	105.00
NORTHERN	SABOBA	2.00	2.00	2.00	2.00	4	128.39	100.00
NORTH EAST	CHEREPONI	2.00	2.00	2.00	2.00	4	128.39	100.00
NORTHERN	ZABZUGU	1.00	2.43	2.43	1.95	5	125.40	97.67
NORTH EAST	BUNKPURUGU/YUNYOO	1.50	2.00	2.00	1.83	7	117.69	91.67
NORTH EAST	YUNYOO-NASUAN	1.50	2.00	2.00	1.83	7	117.69	91.67
NORTH EAST	EAST MAMPRUSI	1.50	2.00	2.00	1.83	7	117.69	91.67
NORTH EAST	MAMPRUGU MOAGDURI	2.00	1.70	1.70	1.80	9	115.55	90.00
NORTHERN	KARAGA	2.06	1.43	1.43	1.64	10	105.28	82.00

**Table 4. 7.1d: AVERAGE YIELD PERFORMANCE FOR SORGHUM BY DISTRICT (TOP 10 DISTRICTS)**

SORGHUM (MT/HA)							NATIONAL AVERAGE	1.53
SORGHUM (MT/HA)							POTENTIAL YIELD	2.00
REGION	DISTRICT	2017	2018	2019	3-YEAR AVERAGE	RANK	AVERAGE YIELD AS % OF NATIONAL AVERAGE	AVERAGE YIELD AS % OF POTENTIAL YIELDS
NORTHERN	KARAGA	2.93	2.13	2.13	2.40	1.00	156.30	119.83
NORTH EAST	CHEREONI	2.10	2.10	2.10	2.10	3.00	136.95	105.00
NORTH EAST	WEST MAMPRUSI	2.10	2.10	2.10	2.10	3.00	136.95	105.00
NORTHERN	NANUMBA SOUTH	2.60	1.80	1.80	2.07	4.00	134.78	103.33
NORTHERN	NANUMBA NORTH	1.60	2.20	2.20	2.00	7.00	130.43	100.00
NORTHERN	SABOBA	2.00	2.00	2.00	2.00	7.00	130.43	100.00
SAVANNA	SAWLA/TUNA/KALBA	2.00	2.00	2.00	2.00	7.00	130.43	100.00
NORTHERN	KUMBUNGU	2.00	2.00	2.00	2.00	7.00	130.43	100.00
SAVANNA	EAST GONJA MAMPRUGU	1.30	2.34	2.34	1.99	9.00	130.00	99.67
NORTH EAST	MOAGDURI	2.10	1.90	1.90	1.97	10.00	128.26	98.33

## 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)**

CASSAVA (MT/HA)							NATIONAL AVERAGE	22.2
CASSAVA (MT/HA)							POTENTIAL YIELD	45.0
REGION	DISTRICT	2017	2018	2019	3-YEAR AVERAGE	RANK	AVERAGE YIELD AS % OF NATIONAL AVERAGE	AVERAGE YIELD AS % OF POTENTIAL YIELD
ASHANTI	SEKYERE EAST	42.45	44.25	41.64	42.78	1	192.04	95.0
EASTERN	ATIWA EAST	38.35	38.51	38.52	38.46	3	172.64	85.4
EASTERN	ATIWA WEST	38.35	38.51	38.52	38.46	3	172.64	85.4
CENTRAL	ASSIN SOUTH	33.40	33.50	33.50	33.47	4	150.23	74.3
ASHANTI	BEKWAI (AMANSIE EAST)	29.31	30.01	32.21	30.51	5	136.96	67.3
EASTERN	UPPERWEST AKIM	30.29	30.37	30.79	30.48	6	136.83	67.7
EASTERN	WEST AKIM	30.29	30.37	30.40	30.35	7	136.25	67.4
ASHANTI	AMANSIE WEST	27.90	29.32	30.65	29.29	8	131.48	65.0
EASTERN	AKUAPIM NORTH	28.63	28.96	29.70	29.10	10	130.61	64.0
EASTERN	OKERE	28.63	28.96	29.70	29.10	10	130.61	64.0

**Table 4. 7.2b: AVERAGE YIELD PERFORMANCE FOR YAM BY DISTRICT (TOP 10 DISTRICTS)**

YAM (MT/HA)							NATIONAL AVERAGE	17.52
YAM (MT/HA)							POTENTIAL YIELD	52.00
REGION	DISTRICT	2017	2018	2019	3-YEAR AVERAGE	RANK	AVERAGE YIELD AS % OF NATIONAL AVERAGE	AVERAGE YIELD AS % OF POTENTIAL YIELDS
UPPER WEST	DAFIAMA-BUSSIE-ISSA	25.39	24.8	26.14	25.44	1	145.2	48.93
UPPER WEST	WA MUNICIPAL	24.57	24.3	25.65	24.84	2	141.77	47.77
UPPER WEST	NADOWLI	23.46	24	25.15	24.2	3	138.13	46.55
EASTERN	KWAHU AFRAM PLAINS SOUTH	22.64	22.82	22.86	22.77	4	129.97	43.8
EASTERN	KWAHU AFRAM PLAINS NORTH	22.64	22.74	22.78	22.72	5	129.67	43.69
BONO EAST	ATEBUBU -AMANTIN	16.9	17.35	31.7	21.98	6	125.46	42.28
UPPER WEST	WA EAST	20.73	20.89	22.96	21.53	7	122.85	41.39
OTI	KRACHI NCHUMURU	19.88	19.92	22.9	20.9	8	119.28	40.19
OTI	KRACHI WEST	19.88	19.9	22.87	20.88	9	119.18	40.16
BONO EAST	NKORANZA NORTH	20.6	20.23	21.8	20.88	10	119.15	40.15

**Table 4. 7.2c: AVERAGE YIELD PERFORMANCE FOR PLANTAIN BY DISTRICT (TOP 10 DISTRICTS)**

PLANTAIN (MT/HA)							NATIONAL AVERAGE	13.39
PLANTAIN (MT/HA)							POTENTIAL YIELD	38.00
REGION	DISTRICT	2017	2018	2019	3-YEAR AVERAGE	RANK	AVERAGE YIELD AS % OF NATIONAL AVERAGE	AVERAGE YIELD AS % OF POTENTIAL YIELDS
AHAFO	ASUTIFI SOUTH	18.60	18.71	18.75	18.69	1	139.55	49.18
AHAFO	ASUNAFO SOUTH	18.50	18.60	18.80	18.63	2	139.15	49.04
AHAFO	ASUTIFI NORTH	18.00	17.90	18.20	18.03	3	134.67	47.46
AHAFO	TANO NORTH	14.20	15.20	17.80	15.73	4	117.50	41.40
ASHANTI	AHAFO ANO NORTH	13.85	15.73	17.12	15.57	5	116.25	40.96
ASHANTI	ASANTE AKIM SOUTH	14.69	15.23	16.45	15.46	6	115.43	40.68
AHAFO	TANO SOUTH	13.21	14.10	18.20	15.17	7	113.29	39.92
ASHANTI	OFFINSO NORTH	14.45	14.65	15.78	14.96	8	111.72	39.37
AHAFO	ASUNAFO NORTH	12.90	12.91	18.91	14.91	9	111.32	39.23
ASHANTI	AKROFUOM	13.95	14.65	16.10	14.90	10	111.27	39.21

**Table 4. 7.2d: AVERAGE YIELD PERFORMANCE FOR COCOYAM BY DISTRICT (TOP 10 DISTRICTS)**

COCOYAM (MT/HA)							NATIONAL AVERAGE	7.24
COCOYAM (MT/HA)							POTENTIAL YIELD	20.00
REGION	DISTRICT	2017	2018	2019	3-YEAR AVERAGE	RANK	AVERAGE YIELD AS % OF NATIONAL AVERAGE	AVERAGE YIELD AS % OF POTENTIAL YIELDS
EASTERN	ATIWA WEST	10.08	10.07	11.20	10.63	1	146.81	53.17
EASTERN	ATIWA EAST	10.08	10.07	10.04	10.05	2	138.81	50.27
EASTERN	AYENSUANO	9.81	9.80	9.77	9.79	3	135.12	48.93
EASTERN	BIRIM CENTRAL	9.57	9.59	9.56	9.57	4	132.18	47.87
EASTERN	BIRIM SOUTH	9.47	9.45	9.42	9.43	5	130.25	47.17
EASTERN	FANTEAKWA SOUTH	9.07	9.16	9.56	9.36	6	129.22	46.80
EASTERN	FANTEAKWA NORTH	9.07	9.16	9.50	9.33	7	128.81	46.65
OTI	BLAKOYE	8.75	8.95	8.98	8.97	8	123.77	44.83
WESTERN NORTH	JUABESO	7.33	9.60	8.20	8.90	9	122.87	44.50
EASTERN	KWAEBIBIREM	8.86	8.89	8.86	8.88	10	122.54	44.38

**TABLE 4.7.3 LEGUMES AND PULSES**
**Table 4. 7.3a: AVERAGE YIELD PERFORMANCE FOR COWPEA BY DISTRICT (TOP 10 DISTRICTS)**

COWPEA(MT/HA)							NATIONAL AVERAGE	1.50
COWPEA(MT/HA)							POTENTIAL YIELD	2.50
REGION	DISTRICT	2017	2018	2019	3-YEAR AVERAGE	RANK	AVERAGE YIELD AS % OF NATIONAL AVERAGE	AVERAGE YIELD AS % OF POTENTIAL YIELDS
NORTHERN	YENDI	1.50	2.53	2.53	2.19	1	146.08	87.47
NORTHERN	SAVELUGU	2.38	2.00	2.00	2.13	3	142.07	85.07
NORTHERN	NANTON	2.38	2.00	2.00	2.13	3	142.07	85.07
VOLTA	KETU NORTH	0.00	2.56	3.77	2.11	4	140.96	84.40
UPPER WEST	LAWRA	2.01	2.20	1.98	2.06	5	137.75	82.48
SAVANNA	CENTRAL GONJA	1.20	2.49	2.49	2.06	6	137.62	82.40
SAVANNA	WEST GONJA	1.10	2.50	2.50	2.03	7	135.84	81.33
NORTH EAST	BUNKPURUGU/YUNYOO	1.98	1.98	1.98	1.98	9	132.27	79.20
NORTH EAST	YUNYOO-NASUAN	1.98	1.98	1.98	1.98	9	132.27	79.20
OTI	KRACHI WEST	1.73	1.88	2.32	1.98	10	132.05	79.07

**Table 4. 7.3b: AVERAGE YIELD PERFORMANCE FOR SOYABEAN BY DISTRICT (TOP 10 DISTRICTS)**

SOYA BEAN(MT/HA)							NATIONAL AVERAGE	1.72
SOYA BEAN(MT/HA)							POTENTIAL YIELD	3
REGION	DISTRICT	2017	2018	2019	3-YEAR AVERAGE	RANK	AVERAGE YIELD AS % OF NATIONAL AVERAGE	AVERAGE YIELD AS % OF POTENTIAL YIELDS
NORTHERN	YENDI	2.50	2.32	2.32	2.38	1	138.67	79.33
NORTHERN	SAVELUGU/NANTON	2.73	2.15	2.15	2.34	3	136.53	78.11
NORTHERN	NANTON	2.73	2.15	2.15	2.34	3	136.53	78.11
NORTHERN	MION	2.70	2.12	2.12	2.31	4	134.79	77.11
NORTHERN	SAGNERIGU	2.70	2.10	2.10	2.30	5	134.01	76.67
NORTHERN	NANUMBA SOUTH	1.30	2.75	2.75	2.27	6	132.07	75.56
NORTHERN	TOLON	2.10	2.15	2.15	2.13	8	124.30	71.11
SAVANNA	WEST GONJA	1.40	2.50	2.50	2.13	8	124.30	71.11
NORTHERN	TAMALE METRO	2.40	1.92	1.92	2.08	9	121.19	69.33
UPPER WEST	SISSALA WEST	2.01	2.10	1.79	1.97	10	114.66	65.60

**Table 4. 7.3c: AVERAGE YIELD PERFORMANCE FOR GROUNDNUT BY DISTRICT (TOP 10 DISTRICTS)**

GROUNDNUT(MT/HA)							NATIONAL AVERAGE	1.67
							POTENTIAL YIELD	3.50
REGION	DISTRICT	2017	2018	2019	3-YEAR AVERAGE	RANK	AVERAGE YIELD AS % OF NATIONAL AVERAGE	AVERAGE YIELD AS % OF POTENTIAL YIELDS
NORTHERN	SAVELUGU	2.52	2.50	2.50	2.51	2	149.90	71.62
NORTHERN	NANTON	2.52	2.50	2.50	2.51	2	149.90	71.62
NORTHERN	YENDI	1.50	2.53	2.53	2.19	3	130.76	62.48
SAVANNA	EAST GONJA	1.00	2.60	2.60	2.07	4	123.59	59.05
SAVANNA	NORTH EAST GONJA	1.00	2.39	2.60	2.00	5	119.40	57.05
NORTHERN	KPANDAI	2.00	1.95	1.95	1.97	6	117.61	56.19
SAVANNA	NORTH GONJA	1.00	2.39	2.39	1.93	7	115.22	55.05
NORTHERN	TOLON	2.20	1.78	1.78	1.92	8	114.82	54.86
NORTHERN	MION	1.58	2.06	2.06	1.90	9	113.62	54.29
ASHANTI	AFIGYA KWABRE	1.74	1.78	2.09	1.87	11	111.83	53.43

**Table 4. 8: ESTIMATED LEVELS OF APPARENT PER CAPITA CONSUMPTION, Kg/Head (3YR. INTERVAL)**

COMMODITY	2010	2013	2016	2019
<b>STARCHY STAPLES</b>				
CASSAVA	152.90	152.9	152.9	525.0
YAM	125.00	41.9	125.0	229.38
COCOYAM	40.00	40.0	40.0	171.77
PLANTAIN	84.80	84.8	84.8	42.13
<b>CEREALS</b>				
MAIZE	45.00	43.8	45.0	73.25
RICE (MILLED)	32.00	15.1	32.0	59.01
MILLET	5.00	6.4	5.0	7.21
SORGHUM	5.00	10.1	5.0	10.96
WHEAT	13.00	8.0	13.0	21.10
<b>LEGUMES</b>				
COWPEA	5.00	5.0	5.0	7.06
GROUNDNUT	12.00	12.0	12.0	16.70
SOYA BEAN	2.00	-	2.0	5.38
<b>FISH</b>	24.50	30.2	24.5	
<b>**MEAT</b>	12.00	9.4	12.0	

\* 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.

Apparent Consumption = ((Production + Import) – Export)/Population

\*\*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: 2019/2020 FOOD BALANCE SHEET**

Population	30,280,811																	
Commodity	DOMESTIC SUPPLY (MT)					DOMESTIC UTILIZATION (MT)					PER CAPITA SUPPLY					Closing Stock (Mt)	Self Sufficiency Ratio (%)	Import Dependency Ratio (%)
	Production (Mt)	Import (Mt)	Carry Over (Mt)	Export (Mt)	Human Consumption (Mt)	Seed	Feed	Waste	Processing (Mt)	Food (MT)	Apparent Per Capita Consumption							
											Kg/Annum	Grams/Day	Cal/day (Grams)	Protein/day (Grams)	Fat/day (Grams)			
<b>Cereals</b>	<b>4,069,715</b>	<b>1,763,501</b>	<b>443,889</b>	<b>114,271</b>	<b>7,086,935</b>	<b>46,604</b>	<b>1,005,612</b>	<b>-</b>	<b>6,034,719</b>									
Maize	2,911,884	8,819	185,279	14,387	3,091,595	28,757	844,808	-	2,218,029	73.25	200.68	670.28	24.48	4.62	221,802.94	100.19	(0.19)	
Rice (Paddy)	925,006	-	-	905	924,101	14,104	69,147	-	840,850	-	-	-	-	-	-	-	-	
Rice (Milled)**	580,187	1,087,516	141,048	1,689	1,807,062	-	20,307	-	1,786,755	59.01	161.66	581.98	10.83	1.13	178,675.51	34.82	65.18	
Millet	230,416	341	17,516	89	248,184	1,479	28,475	-	218,230	7.21	19.74	67.13	1.92	0.59	21,822.99	99.89	0.11	
Sorghum	347,228	158	30,180	438	377,129	2,264	42,875	-	331,989	10.96	30.04	103.03	3.03	0.99	33,198.89	100.08	(0.08)	
Wheat	-	666,667	69,866	97,668	638,865	-	-	-	638,865	21.10	57.80	193.06	7.05	1.33	63,886.50	-	100.00	
<b>Starchy Staples</b>	<b>38,493,553</b>	<b>-</b>	<b>-</b>	<b>102,030</b>	<b>38,391,523</b>	<b>-</b>	<b>9,071,029</b>	<b>-</b>	<b>29,320,494</b>									
Cassava	22,713,014	-	-	1,566	22,711,448	-	6,813,904	-	15,897,544	525.00	1,438.37	1,567.82	12.95	2.88	1,589,754.38	100.01	(0.01)	
Yam	8,754,849	-	-	58,115	8,696,734	-	1,750,970	-	6,945,764	229.38	628.43	634.72	8.17	1.26	694,576.43	100.67	(0.67)	
Cocoyam	5,476,984	-	-	1,741	5,475,243	-	273,849	-	5,201,394	171.77	470.61	512.96	8.00	1.41	520,139.38	100.03	(0.03)	
Plantain	1,548,706	-	-	40,608	1,508,098	-	232,306	-	1,275,792	42.13	115.43	86.57	0.92	0.35	127,579.16	102.69	(2.69)	
<b>Legumes</b>	<b>1,010,023</b>	<b>-</b>	<b>-</b>	<b>4,247</b>	<b>1,005,776</b>	<b>24,731</b>	<b>98,608</b>	<b>-</b>	<b>882,437</b>									
Groundnuts	563,291	-	-	1,131	562,160	16,843	39,487	-	505,831	16.70	45.77	259.49	11.76	22.52	50,583.08	100.20	(0.20)	
Cowpea	253,696	-	-	1,962	251,734	3,390	34,665	-	213,679	7.06	19.33	65.93	4.27	0.33	21,367.92	100.78	(0.78)	
Soya Bean	193,036	-	-	1,154	191,882	4,499	24,457	-	162,927	5.38	14.74	49.38	5.60	2.65	16,292.66	100.60	(0.60)	

Source: SRID, MOFA

Notes: Estimated Population for 2019 = 30.28 million (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. 10A: PRODUCTION OF INDUSTRIAL CROPS, (MT)**

YEAR	RUBBER	OIL PALM
2010	20,150	2,004,300
2011	20,185	2,125,600
2012	20,200	2,196,100
2013	21,440	2,326,920
2014	22,427	2,443,270
2015	22,427	2,443,000
2016	22,427*	2,443,000*
2017	37,000*	2,476,065**
2018	41,300*	2,647,066**
2019	30,500*	2,655,440**

Sources: FAO

\* Unofficial figure

\*\* FAO data based on imputation methodology.

**Table 4. 11B: PRODUCTION OF INDUSTRIAL CROPS, (MT)**

YEAR	COCOA	REVENUE FROM BEANS EXPORTS (US\$)
2010/11	1,024,553	2,665,710,776.61
2011/12	879,349	2,215,103,784.64
2012/13	835,466	1,645,501,947.77
2013/14	896,917	1,702,770,736.56
2014/15	740,254	2,013,527,314.99
2015/16	778,043	1,802,286,786.50
2016/17	969,510	2,186,897,123.98
2017/18	904,777	1,631,815,701.25
2018/19	811,610	1,539,321,060.31
2019/20	770,691	1,563,392,422.69

Sources:

1. COCOBOD, (2021)

## 4.2: LIVESTOCK SUB-SECTOR

**Table 4. 12: TREND OF LIVESTOCK POPULATION ('000)**

TYPE OF LIVESTOCK	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
CATTLE	1,454	1,498	1,543	1,590	1,657	1,734	1,815	1,901	1,943	2,032
SHEEP	3,759	3,887	4,019	4,156	4,335	4,522	4,744	4,978	5,102	5,333
GOATS	4,855	5,137	5,435	5,751	6,044	6,352	6,740	7,151	7,366	7,764
PIGS	536	568	602	638	682	730	777	816	845	894
POULTRY	47,752	52,575	57,885	63,732	68,511	71,594	73,885	75,363	76,870	79,391

Source: SRID/MOFA Projections (2019)

**Table 4. 13: LIVESTOCK SLAUGHTER SUMMARY (NUMBERS)**

TYPE OF LIVESTOCK	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	(%) CHANGE (2018/2019)
CATTLE	233,491	202,104	220,446	200,819	164,554	141,144	116,056	129,694	122,083	122,802	0.6%
SHEEP	66,754	73,159	90,656	68,344	64,594	47,546	42,138	47,960	49,291	49,526	0.5%
GOATS	104,425	108,826	140,914	118,623	129,073	76,531	67,390	74,101	78,366	86,313	10.1%
PIGS	18,196	20,086	23,608	24,062	21,735	13,618	11,923	13,195	15,648	16,481	5.3%
OTHER	3,421	3,705	5,521	2,824	4,102	3,045	5,513	4,746	2,130	1,043	-51.0%
<b>TOTAL (ALL LIVESTOCK)</b>	<b>426,287</b>	<b>407,880</b>	<b>481,145</b>	<b>414,672</b>	<b>384,058</b>	<b>281,884</b>	<b>243,020</b>	<b>269,696</b>	<b>267,518</b>	<b>276,165</b>	<b>3.2%</b>

Source: Veterinary Services Directorate, MOFA, Accra (2019)

**Table 4. 14: LIVE ANIMAL IMPORTS BY SPECIES AND PERCENTAGE SHARE OF TOTAL IMPORTS**

YEAR	CATTLE	SHEEP	GOATS	TOTAL	*SHARE OF TOTAL IMPORTS		
					CATTLE	SHEEP	GOATS
2010	11,389	4,843	3,711	19,943	57%	24%	19%
2011	9,384	2,835	2,495	14,714	64%	19%	17%
2012	23,622	9,840	10,008	43,470	54%	23%	23%
2013	21,131	16,738	16,953	54,822	39%	31%	31%
2014	20,948	22,188	32,012	75,148	28%	30%	43%
2015	17,968	15,763	20,004	53,735	33%	29%	37%
2016	23,575	13,854	16,900	54,329	43%	26%	31%
2017	32,249	47,526	46,665	126,440	26%	38%	37%
2018	52,948	55,602	84,751	193,301	27%	29%	44%
2019	69,083	48,799	103,201	221,083	31%	22%	47%

Source: Veterinary Services Directorate, MOFA (2019)

\*SRID, MOFA, (Computed)

**Table 4. 15: IMPORTATION OF DAY-OLD CHICKS AND PARENT STOCK (NUMBERS)**

YEAR	BROILER	LAYER	TURKEY	PARENT STOCK
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
2019	906,408	7,710,553	30,487	45,321

Source: Veterinary Services Directorate, MOFA (2019)

**Table 4. 16a: WEIGHT/VOLUME (MT) OF IMPORTS OF FROZEN MEAT BY CATEGORY**

MEAT CATEGORY	2015	2016	2017	2018	2019	5-YEAR GRAND TOTAL	SHARE BY CATEGORY OF TOTAL (2015-2019) IMPORT (MT)	ANNUAL AVERAGE IMPORT (MT)
POULTRY*	140,668	100,477	151,346	204,755	153,448	750,695	80.29%	150,139
PORK (SWINE)	9,139	9,480	5,748	3,082	2,914	30,364	3.25%	6,073
BOVINE (CATTLE)	32,130	24,682	28,913	30,440	18,931	135,095	14.45%	27,019
SMALL RUMINANTS (SHEEP + GOAT)	4,469	5,136	3,685	3,541	2,041	18,872	2.02%	3,774
<b>TOTAL (ALL CATEGORY)</b>	186,406	139,775	189,692	241,818	177,334	935,026	100.00%	182,121
<b>CONTRIBUTION (ALL CATEGORY) TO 5-YR GRAND TOTAL</b>	<b>19.94%</b>	<b>14.95%</b>	<b>20.29%</b>	<b>25.86%</b>	<b>18.97%</b>			

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

\*Poultry:

Chicken accounts for over 97% of poultry imports.

Turkey meat: 2.9%.

Other:

0.03% (Other: ducks, geese, guinea fowls)

**Table 4. 15b: VALUE (GHC) OF MEAT IMPORTS BY CATEGORY**

	2015	2016	2017	2018	2019	TOTAL (2015-2019)	ANNUAL AVERAGE (GHC)
POULTRY	424,017,552	435,531,867	536,346,194	596,926,016	404,738,337	2,397,559,966	479,511,993
PORK (SWINE)	23,481,894	21,805,994	20,116,990	12,979,892	10,381,643	88,766,412	17,753,282
BOVINE (CATTLE)	119,260,090	85,415,744	109,909,399	112,077,555	51,837,795	478,500,583	95,700,117
SMALL RUMINANTS (SHEEP+GOATS)	19,116,152	15,715,965	14,064,591	14,039,532	6,546,136	69,482,376	13,896,475
<b>TOTAL (ALL CATEGORY)</b>	<b>585,875,688</b>	<b>558,469,569</b>	<b>680,437,173</b>	<b>736,022,995</b>	<b>473,503,910</b>	<b>3,034,309,336</b>	<b>606,861,867</b>
<b>SHARE (ALL CATEGORY) BY YEAR</b>	<b>19.31%</b>	<b>18.41%</b>	<b>22.42%</b>	<b>24.26%</b>	<b>15.60%</b>		
<b>ANNUAL CHANGE (VARIATION)</b>		<b>-4.68%</b>	<b>21.84%</b>	<b>8.17%</b>	<b>-35.67%</b>		

**Table 4. 15c: VALUE (US\$) OF MEAT IMPORTS BY CATEGORY**

	2015	2016	2017	2018	2019	TOTAL (2015-2019)	ANNUAL AVERAGE (GHC)
POULTRY	81,229,416	83,435,224	102,748,313	114,353,643	77,536,080	<b>459,302,675</b>	91,860,535
PORK (SWINE)	4,498,447	4,177,393	3,853,829	2,486,569	1,988,820	<b>17,005,060</b>	3,401,012
BOVINE (CATTLE)	22,846,761	16,363,169	21,055,440	21,470,796	9,930,612	<b>91,666,778</b>	18,333,356
SMALL RUMINANTS (SHEEP+GOATS)	3,662,098	3,010,721	2,694,366	2,689,566	1,254,049	<b>13,310,800</b>	2,662,160
<b>TOTAL (ALL CATEGORY)</b>	<b>112,236,722</b>	<b>106,986,507</b>	<b>130,351,949</b>	<b>141,000,574</b>	<b>90,709,561</b>	<b>581,285,313</b>	<b>116,257,063</b>
<b>SHARE (ALL CATEGORY) BY YEAR</b>	<b>19.31%</b>	<b>18.41%</b>	<b>22.42%</b>	<b>24.26%</b>	<b>15.60%</b>		
<b>ANNUAL CHANGE (VARIATION)</b>		<b>-4.68%</b>	<b>21.84%</b>	<b>8.17%</b>	<b>-35.67%</b>		

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

**Table 4. 17: DOMESTIC MEAT PRODUCTION (MT)**

<b>TYPE OF LIVESTOCK</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
<b>CATTLE</b>	19,993	20,592	21,221	21,863	22,781	23,841	24,961	26,134	26,716	27,936
<b>SHEEP</b>	16,916	17,491	18,087	18,703	19,507	20,347	21,349	22,399	22,959	23,999
<b>GOATS</b>	19,226	20,341	21,198	22,429	23,573	24,774	26,285	27,889	28,727	30,278
<b>PIGS</b>	18,010	19,072	20,224	21,432	22,932	24,513	26,107	27,412	28,392	30,025
<b>POULTRY</b>	37,247	41,008	46,308	50,985	54,809	57,276	59,108	60,291	61,496	63,513
<b>TOTAL</b>	<b>111,390</b>	<b>118,504</b>	<b>127,038</b>	<b>135,412</b>	<b>143,603</b>	<b>150,751</b>	<b>157,810</b>	<b>164,124</b>	<b>168,291</b>	<b>175,751</b>

Source: SRID (2019), (Estimated from Table 4.11 based on information and criteria In Appendix 14)

### 4.3: FISHERIES SUB-SECTOR

**Table 4. 18: ANNUAL FISH CAPTURE BY SOURCE (MT)**

SOURCE	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
MARINE	309,558	326,545	333,697	314,868	289,147	312,535	294,627	342,427	302,432	317,393
INLAND	83,127	95,353	95,000	86,741	85,383	86,268	86,223	76,574	73,628	77,280
<b>TOTAL</b>	<b>392,685</b>	<b>421,898</b>	<b>428,697</b>	<b>401,609</b>	<b>374,530</b>	<b>398,803</b>	<b>380,850</b>	<b>419,001</b>	<b>376,060</b>	<b>394,673</b>

Source: Fisheries Commission/Ministry of Fisheries and Aquaculture Development (MOFAD)2019.

**Table 4. 19: ANNUAL AQUACULTURE PRODUCTION (MT)**

YEAR	PRODUCTION	PERCENTAGE CHANGE
2010	10,200	0.0%
2011	19,092	87.2%
2012	27,451	43.8%
2013	32,512	18.4%
2014	38,547	18.6%
2015	44,515	15.5%
2016	52,470	17.9%
2017	60,000	14.4%
2018	76,620	27.7%
2019	80,751	5.4%

Source: Fisheries Commission/Ministry of Fisheries and Aquaculture Development (MOFAD) 2019.



Figure 14: AQUACULTURE PRODUCTION

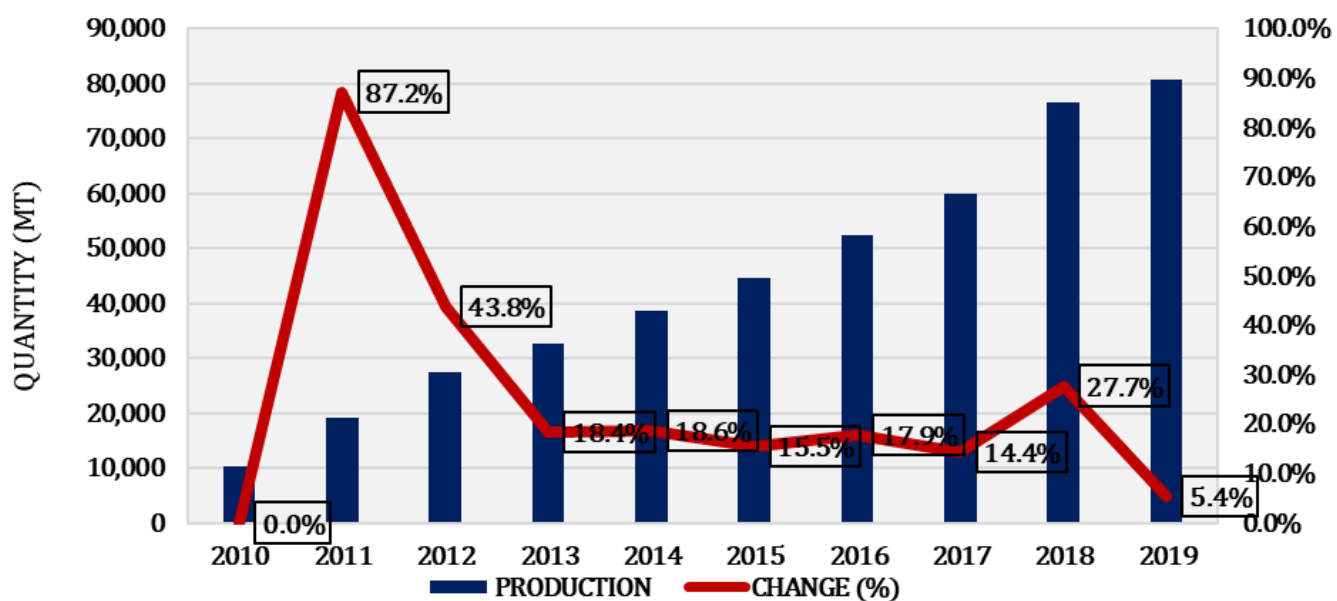


Table 4. 20: FISH IMPORTS AND EXPORTS (MT)

CATEGORY	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
TOTAL FISH IMPORTS	199,799	191,429	181,825	150,701	145,910	180,802	192,131	197,063	192,690	190,617
TOTAL FISH EXPORTS	62,750	44,145	46,234	37,617	57,358	53,750	53,100	48,767	73,628	81,205

Source: Fisheries Commission/Ministry of Fisheries and Aquaculture Development (MOFAD)2019.

## SECTION 5: SOME SERVICES TO AGRICULTURE

### 5.1 CREDIT SUPPORT

**Table 5. 1: SECTORIAL DISTRIBUTION OF CREDIT BY DEPOSIT MONEY BANKS (%)**

END OF PERIOD	AGRIC., FORESTRY & FISHING		MINING & QUARRYING	MANUFACTURING	CONSTRUCTION	ELECTRICITY		IMPORT TRADE	EXPORT TRADE	COMMERCE & FINANCE	TRANSPORT, STORAGE & COMMUNICATION SERVICES		MISCELLANEOUS
						GAS & WATER							
2013	4.09		1.00	8.87	4.45	2.65	9.12	9.00	16.24		11.35	26.35	6.35
2014	3.64		0.93	9.46	4.76	2.84	8.18	9.58	15.93		13.33	23.48	7.75
2015	3.84		1.95	8.41	9.80	14.74	9.14	0.51	13.65		4.91	21.89	8.85
2016	3.79		2.35	8.18	10.24	15.72	7.49	0.73	16.41		7.15	19.62	8.85
2017	3.79		2.42	8.07	10.96	12.57	6.31	0.79	18.39		8.45	18.80	9.95
2018	4.17		3.17	9.34	10.47	8.30	5.27	0.78	17.72		9.94	20.74	10.05
2019	4.11		3.46	10.43	9.90	7.98	4.26	0.72	16.53		9.72	21.91	9.95

Source: Ghana Statistical Service; Quarterly Digest of Statistics (Bank of Ghana) 2020.

**Table 5. 2: BANK LENDING RATES (%)**

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MINIMUM	MAXIMUM
2010	32.75	32.48	32.14	31.83	31.83	30.63	28.50	28.50	27.63	27.63	27.63	27.63	27.63	32.75
2011	27.63	27.63	27.51	27.51	27.51	26.95	26.95	26.95	26.95	26.95	25.93	25.93	25.93	27.63
2012	25.93	25.93	25.93	25.93	25.93	24.65	24.65	24.51	25.72	25.72	25.72	25.72	24.51	25.93
2013	25.72	25.72	27.13	27.13	27.13	27.41	27.41	27.41	27.41	25.56	25.56	25.56	25.56	27.41
2014	25.56	25.56	25.56	26.98	27.85	27.85	27.75	27.75	27.45	26.43	26.43	28.98	25.56	28.98
2015	28.98	28.98	28.98	28.98	28.98	28.98	27.87	27.87	28.98	28.16	29.22	27.50	27.50	29.22
2016	28.81	28.02	27.97	27.98	28.22	27.90	28.51	28.15	27.82	27.96	28.21	28.09	27.82	28.81
2017	27.65	27.57	27.72	27.52	27.29	27.28	27.22	27.17	26.73	26.71	26.42	26.22	26.22	27.72
2018	25.64	25.38	25.47	25.02	24.74	24.14	23.94	23.70	24.04	23.90	23.76	23.96	23.70	25.64
2019	23.73	23.50	23.26	23.09	23.08	23.11	24.10	23.96	23.68	23.65	0.00	0.00	0.00	24.10
2020	23.06	23.37	23.40	22.38	22.38	21.95	21.29	21.37	21.30	21.26	20.95	21.10	20.95	23.40

Source: Bank of Ghana, (BoG), 2021

**Table 5. 3: BASIC INFORMATION ON BANKS IN GHANA AS AT JUNE 2019**

<b>NAME OF BANK</b>	<b>YEAR ESTABLISHED</b>	<b>NO. OF BRANCHES</b>	<b>REGIONAL DISTRIBUTION OF BANKS</b>
<b>ACCESS BANK (GHANA) LIMITED</b>	2006	47	Except Eastern, Upper East and Upper West
<b>AGRICULTURAL DEVELOPMENT BANK LIMITED</b>	1965	83	All Regions
<b>BANK OF AFRICA GHANA LIMITED</b>	1997	26	Greater Accra, Western, Ashanti, Northern
<b>BARCLAYS BANK GHANA LIMITED</b>	1917	52	All Regions
<b>CALBANK LIMITED</b>	1990	30	Greater Accra, Western, Ashanti
<b>CONSOLIDATED BANK GHANA LIMITED</b>	2018	110	All Regions
<b>ECOBANK GHANA LIMITED</b>	1990	67	All except Upper East & Upper West
<b>FBN BANK GHANA LIMITED</b>	1996	20	Greater Accra, Western, Central, Ashanti, Brong Ahafo
<b>FIDELITY BANK GHANA LIMITED</b>	2006	75	All except Upper West
<b>FIRST ATLANTIC BANK LIMITED</b>	1994	37	Greater Accra, and Ashanti Region
<b>FIRST NATIONAL BANK</b>	2015	8	Greater Accra
<b>GCB BANK LIMITED</b>	1953	184	All Regions
<b>GUARANTY TRUST BANK (GHANA) LIMITED</b>	2004	34	All except Eastern, Upper East, Upper West
<b>NATIONAL INVESTMENT BANK LIMITED</b>	1963	49	All Regions
<b>OMNIBANK GHANA LIMITED</b>	2016	46	Greater Accra, Ashanti, Western, Eastern, Central, Brong Ahafo
<b>PRUDENTIAL BANK LIMITED</b>	1993	40	All except Eastern, Volta, Upper East and Upper West
<b>REPUBLIC BANK GHANA LIMITED</b>	1990	42	All except Upper West & Volta
<b>SOCIETE GENERAL GHANA LIMITED</b>	1975	40	All Regions
<b>STANBIC BANK GHANA LIMITED</b>	1999	40	All except Eastern
<b>STANDARD CHARTERED BANK GHANA LIMITED</b>	1896	22	Greater Accra, Western, Ashanti, Northern
<b>UNITED BANK FOR AFRICA (GHANA) LIMITED</b>	2005	25	Greater Accra, Western, Volta, Ashanti
<b>UNIVERSAL MERCHANT BANK LIMITED</b>	1971	34	Greater Accra, Western, Eastern, Ashanti, Brong Ahafo
<b>ZENITH BANK (GHANA) LIMITED</b>	2005	34	All except Upper East, Upper West & Volta

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 by BOG).



## 5.2: AGRICULTURAL MANPOWER DEVELOPMENT AND RESEARCH SUPPORT

**Table 5. 4: AGRICULTURE-RELATED RESEARCH INSTITUTIONS**

INSTITUTE	LOCATION	TELEPHONE NUMBERS	EMAIL/WEBSITE
<b>MINISTRY OF FOOD AND AGRICULTURE (MOFA)</b>			
STATISTICS, RESEARCH, AND INFORMATION DIRECTORATE	ACCRA	0302-664317/666727	<a href="mailto:sridir@gmail.com">sridir@gmail.com/</a> <a href="http://srid.MOFA.gov.gh">srid.MOFA.gov.gh</a>
<b>COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH (CSIR)</b>			
ANIMAL RESEARCH	ACCRA	0302-401846/ 554744/511746	
CROP RESEARCH	KUMASI	03220-60389/60391/6/ 60142	<a href="mailto:Cridirector@yahoo.com">Cridirector@yahoo.com</a> <a href="mailto:hadapaah@yahoo.com">hadapaah@yahoo.com</a> <a href="mailto:cri@africaonline.com.gh">cri@africaonline.com.gh</a> <a href="http://www.cropresearch.org">www.cropresearch.org</a>
FOOD RESEARCH	ACCRA	0302-777330/ 761209/ 776897 500111/500470/500331	<a href="mailto:fri@ghana.com">fri@ghana.com</a>
OIL PALM RESEARCH	KADE	027-541475/548545/75 0803-610257/8	
WATER RESOURCES	ACCRA	0302-775351/ 779514-5/ 775511/777170	<a href="mailto:wri@ghana.com">wri@ghana.com</a>
FORESTRY RESEARCH INSTITUTE OF GHANA	KUMASI	03220-60122-3 / 60370/3	<a href="mailto:director@csir-forig.org.gh">director@csir-forig.org.gh</a>
SOIL RESEARCH	KUMASI	03220-50353-4/ 50060	<a href="mailto:soil@aol.com.gh">soil@aol.com.gh</a>
SAVANNAH AGRIC. RESEARCH INSTITUTE (SARI)	TAMALE	03720-23197/ 23251/ 24411	<a href="mailto:sari@africaonline.com.gh">sari@africaonline.com.gh</a>
INSTITUTE OF INDUSTRIAL RESEARCH	ACCRA	0302-500195/500134-7	<a href="mailto:info@iir.csir.org.gh">info@iir.csir.org.gh</a> , <a href="mailto:industrialresearch@iir.csir.org.gh">industrialresearch@iir.csir.org.gh</a> , <a href="mailto:joeamoah@yahoo.com">joeamoah@yahoo.com</a>
INSTITUTE FOR SCIENTIFIC AND TECHNICAL INFORMATION	ACCRA	0302-778808/764822	<a href="mailto:insti@csir.org.gh">insti@csir.org.gh</a> , <a href="mailto:jsam@insti.csir.org.gh">jsam@insti.csir.org.gh</a>
PLANT GENETIC RESOURCES RESEARCH INSTITUTE (PGRRI)	BUNSO	03420-24124/24138	<a href="mailto:pgrc@libr.ug.edu.gh">pgrc@libr.ug.edu.gh</a>

<b>UNIVERSITIES</b>			
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
<b>GHANA ATOMIC ENERGY COMMISSION</b>			
BIOTECHNOLOGY AND NUCLEAR AGRICULTURAL RESEARCH INSTITUTE (BNARI)	KWABENYA, ACCRA	0302400807/400310/401343 402286	director@bnari.org webmaster@bnari.org
<b>GHANA COCOBOD</b>			
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- 2010 to 2019. 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	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
PROFESSIONAL	1,362	1,362	1,362	1,335	319	368	357	357	302	875
SUB-PROFESSIONAL	530	530	530	456	94	160	109	109	97	328
TECHNICAL	3,385	3,385	3,385	2,773	497	565	633	633	371	780
SUPPORT STAFF	2,376	2,376	2,376	1,945	657	659	576	576	621	728
<b>TOTAL</b>	<b>7,653</b>	<b>7,653</b>	<b>7,653</b>	<b>6,509</b>	<b>1,570</b>	<b>1,752</b>	<b>1,675</b>	<b>1,675</b>	<b>1,391</b>	<b>2,711</b>

Source: Human Resource Development and Management Directorate (HRDMD), MOFA, 2019.

#### 5.4 AGRICULTURAL MECHANIZATION

Table 5.6 presents the quantities and types/models of MOFA agricultural machinery and equipment imported since 1990.

**Table 5. 6: AGRICULTURAL MACHINERY AND EQUIPMENT**

YEAR	MAKE / MODEL	QUANTITY	FUNDING SOURCE
1990	Komatsu Bulldozer	3	Japanese grant
	Chain Saw	27	
	Rice Mills	12	
	Grain Dryers	12	
	Hand Sprayers	96	
	Power Driven Sprayers	20	
	Yanmar Power Tillers	39	
	Yanmar Irrigation Pumps	30	
	Valmet Tractors	7	
	Corn Mills	2	
1991/92	Yanmar Maize Sheller	1	Japanese grant
	Stake Testing Equipment for Rice	1	
	Bulldozer	1	
	Stake Corn Mill	1	
	Kubota Reapers -rice	11	
	Seed Cleaner	12	
	Rotary Cultivators	3	
	Seed Drill	2	
	Seed Broadcasters	5	
1993	Yanmar Maize Sheller	9	Japanese grant
	Knapsack Motor Sprayer	13	
	Boom Sprayer	2	
	Maize Planter	2	
	MF 375 Tractor	11	
	Irrigation Pump	24	
	Power Tiller	6	
1994	Combine Harvester- rice	6	Japanese grant
	Mobile Husker Sheller	22	
	Ferguson Tractor	2	
1995	Combine Harvester -rice	6	Japanese grant
	Mobile Husker Sheller	22	
2008	Shakti power tillers	200	GOG
	Farmtrac-60 tractor	200	
	Mahindra-705DI tractor	100	
	Mahindra-605DI tractor	132	
	John Deere tractor	500	
	New Holland-TC5070 / 207hp combine harvester	4	GOG, GIDA
	Kubota tractor	78	Japanese grant
	Water pumps	16	
	Rice Mills	20	



YEAR	MAKE / MODEL	QUANTITY	FUNDING SOURCE
2009	Kukje DKC685 rice harvester / 70hp	6	GOG
	Foton DC200 rice harvester	5	
	Foton GE20H rice/ maize harvester	10	
	KT09 harvester/ 210hp	2	
	Tractor with Rotovator attachment / 210hp	2	
2010	Kukje DKC685 rice harvester / 70hp	6	GOG
	KT09 rice harvester/ 210hp	2	
	Run Yuan jing combine harvester	10	
2011	New Holland TD80 tractors	125	Japanese grant
	Combine harvester	2	
	Rice threshers	35	
	Rice reaper	35	
	Rice Mill	10	
	Irrigation Pump	40	
2012	Cabrio Tractors (50hp)	50	GOG
2013	Rice threshers	35	Japanese grant
	Power tillers	43	
	Rice reaper	20	
	Rice Mills	5	GOG
	Cabrio Tractors (50hp)	100	
2015	Same tractor	77	Japanese grant
	Power tillers	49	
	Rice mill	6	
	Rice threshers	20	
	Rice reaper	11	
2016	New Holland tractors	111	Brazil More Food Internati (1st Tranche)
	Valtra tractors	277	
	Massey Ferguson tractors	150	
	Cereal harvester (rice/soya/millet)	21	
	Seed drill	36	
	Multicrop thresher	112	
	Maize shellers	224	
	Boom sprayers	20	
	Pneumatic planters	15	
	Mechanical planters	60	
	Cassava harvesters	50	
Cassava planters	25		
2018/2019	New Holland tractors	90	Brazil More Food Internati (2nd Tranche)
	Valtra tractors	60	
	Massey Ferguson tractors	80	
	Power tillers	1000	
	No till planters	20	
	Mechanical planters	50	
	Mounted Boom Sprayers	50	
	Orchard Sprayers	20	

2019/2020	Motorised Sprayers	4000	GOG (Czech Facility)
	Cereal harvesters	30	
	Maize shellers	400	
	Multicrop thresher	100	
	Seed Cleaner and Sorter	20	
	Drying Silos	20	
	Greenhouses	100	
	Engine Powered Sprinkler Irrigation Kit	300	
	Cabrio Tractors (50hp)	170	
	Mini Tractors	300	
	AGT 850 Tractors	50	
	Rice Cutters	120	
	Threshers	120	GOG (China Facility)
	Mist Blower	50	
	Boom Sprayers	100	
Threshers	700		
Backpack weeding machine	1000		

Source: Agricultural Engineering Services Directorate (AESD), MOFA 2020

**Table 5. 7: TOTAL AREA UNDER IRRIGATION (2010 – 2019) (HA)**

<b>FORMAL IRRIGATION</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
<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	13,008.85
ADDITIONAL AREA AFTER REHABILITATION	500	481	481	0	0	0	0	0	0	0
SMALL SCALE IRRIGATION DEVELOPMENT PROJECT	1,682	0	0	0	0	0	0	0	0	0
SMALL FARMS IRRIGATION PROJECT	324	110	110	0	0	0	0	0	0	0
MCA*		450	450	0	0	0	1,500	0	0	0
<b>SUB-TOTAL</b>	<b>12,633</b>	<b>11,709</b>	<b>11,709</b>	<b>28,304</b>	<b>29,504</b>	<b>11,000</b>	<b>18,792</b>	<b>12,003</b>	<b>12,978</b>	<b>13,008.85</b>
<b>INFORMAL IRRIGATION (SMALLHOLDER)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>189,000</b>	<b>189,000</b>	<b>189,000</b>	<b>189,000</b>	<b>189,000</b>
<b>LARGE SCALE COMMERCIAL</b>	<b>17,636</b>	<b>17,636</b>	<b>17,636</b>	<b>17,636</b>	<b>17,636</b>	<b>21,000</b>	<b>21,000</b>	<b>21,000</b>	<b>21,000</b>	<b>21,000</b>
<b>GRAND TOTAL</b>	<b>30,269</b>	<b>29,345</b>	<b>29,345</b>	<b>45,940</b>	<b>47,140</b>	<b>221,000</b>	<b>228,792</b>	<b>222,003</b>	<b>222,978</b>	<b>223,008.85</b>

Source: Ghana Irrigation Development Authority, MOFA 2019

\*Millennium Challenge Account

**Table 5. 8: LIST OF AGRICULTURAL MACHINERY/EQUIPMENT DEALERS/IMPORTERS**

NO	COMPANY	ADDRESS	TELEPHONE	MACHINERY/ EQUIPMENT
1	<b>KAY GEE ENTERPRISES</b>	P. O. Box GP 2658, Accra	03026651211/665823/0244 347780	Irrigation Pumps,
2	<b>SENAKY ENTERPRISE</b>	P. O. Box 582 Ashiaman	022303552/0202112541	MF tractors, implements
3	<b>CHEMICO LIMITED</b>	P. O. Box CO 950 Tema Ghana	022202991 / 202992 /202345	Spraying machines
4	<b>RST CO LTD</b>	P. O. Box MP 310 Mamprobi Accra	0302243420 / 239693 / 0208168917	Rice mills, threshers, reapers, combined harvesters, power tillers, pumps
5	<b>K BADU AGRO CHEMICALS CO LTD</b>	P. O. Box KJ 193 Kumasi	032280803 / 80804 / 0244945207 / 0208172180	Spraying machines
6	<b>DESTINY AZUMAH FARMS &amp; TRADING ENT</b>	P. O Box K 424 Accra	302669427	Corn mills
7	<b>ALEX NKRUMAH ENTERPRISE</b>	P. O. Box 5268 Kumasi Ghana	032226882 /45983 / 0244615835	MF, Ford, Mahindra tractor Spare parts
8	<b>BIGA INTERNATIONAL TECHNOLOGIES</b>	P. O. Box MP 1188 Mamprobi Accra	0302246262 / 0243665655	Cabrio tractors
9	<b>FOUNDRIES &amp; AGRIC MACHINERY</b>	P. O. Box AN 7852, Accra	0303304113 / 306403	Farmtrac. tractors, combined harvesters, Shakti power tiller, pumps, implements
10	<b>AGRIMAT LIMITED</b>	P. O. Box 15097 Accra	0302506883 / 0208122867	Tractors, Spare parts, implements, pumps, chemicals
11	<b>CFAO</b>	P. O. Box 1402, ksi, P. O. Box 5761, Accra	0302221075/ 76	New holland tractors, trucks, combined harvesters, implements,
12	<b>DIZENGOFF GH LTD</b>	P. O. Box 3403 Accra	0302221831 / 221815	Planters, Boom sprayers
13	<b>BOW'S AGRIC'AL MACHINERY ENT.</b>		0302673784	Corn mills
14	<b>MECHANICAL LLOYD CO LTD</b>	Box 2086, Accra. Near STC Accra. Or off Adenta - Aburi road.	302229312.00	Massey Ferguson tractors, implements, Combines harvesters
15	<b>GHANA HEAVY EQUIPMENT LTD</b>	P. O. Box 1524, Accra	0302680118 / 681637	Zetor tractors, implements, sheller,
16	<b>REISS &amp; CO. (GH) LTD</b>	P. O. Box CT 5064 Cantonments, Accra	0302775359 / 775848	Outboard motors, irrigation pumps
17	<b>DENG LTD</b>	Accra	0302233779/ 233780	Pumps,
18	<b>JOHN DEERE AGRIC'AL &amp; EQUIPMENT CO. LTD</b>	Nsawam	0204331501	John Deere tractors, implements,
19	<b>JUBILEE TRACTOR &amp; ASSEMBLY PLANT</b>	Box ps 6900, Adum Kumasi	0208140720 / 0242810321 / 0242336699	Mahindra tractors, implements, Futon 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

NO.	NAME OF INDIVIDUAL/ ORGANISATION	LOCATION	ADDRESS / TEL	REGION
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, SOUTH TONGU	P. O. Box SR 140 Tema, tel: 0244841896, 0276254935	
19	MAFI-AKYEMFO MECH. CENTRE.	MAFI-AKYEMFO, NORTH TONGU	P. O. Box 18, Adidome. Tel: 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 Cantonments, 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

NO.	NAME OF INDIVIDUAL/ ORGANISATION	LOCATION	ADDRESS / TEL	REGION
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
40	KODOM FARMS (YAW KODOM)	NKORANSA (BRONG AHAFO), B/A	P.O. Box 190, Nkoranza, 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	AMOBFAFF ENT.	KINTAMPO	C/o Mr. Amoo Baffoe, P. O. Box M37 Accra Tel 0242675595	Brong Ahafo
44	TUOBODOM UNITY COOPERATION TOMATO GROWERS & MKTING SOCIETY	TUOBODUM	P. O. Box 8, Techiman Tel: 0244590427	Brong Ahafo

NO.	NAME OF INDIVIDUAL/ ORGANISATION	LOCATION	ADDRESS / TEL	REGION
45	<b>BUWA LTD</b>	<b>KINTAMPO – NORTH</b>	Tel: 0244370230	Brong Ahafo
46	<b>METHODIST UNIVERSITY COLLEGE (PRINCIPAL)</b>	<b>WENCHI</b>	Methodist University College, Wenchi	Brong Ahafo
47	<b>GHANA NUTS LTD</b>	<b>TECHIMAN</b>	P.O. Box 825	Brong Ahafo
48	<b>SOFO-FATAO ENTERPRISE,</b>	<b>NANTE-KINTAMPO</b>	P.O. Box 14, Nante-Kintampo, Brong Ahafo. Tel: 0246661959, 0203858130	Brong Ahafo
49	<b>THE MANAGING DIRECTOR, FATHI AGRO-FORESTRY CO-OPERATIVE FOOD FARMING AND MARKETING SOCIETY</b>	<b>TAMALE</b>	P. O. Box 841, Tamale. Tel: 0244-679689, 071-23154	Northern
50	<b>THE MANAGING DIRECTOR, GLOBAL AL-MAS LTD,</b>	<b>BIMBILLA</b>	P. O. Box 57, Bimbilla. Tel : 0244-177050, 021-517815, 071-25984	Northern
51	<b>SAKFOS FARMS (SAKARA ASUMAH RENNIE)</b>	<b>WEST GONJA (DAMANGO), N/R</b>	P.O. Box DM 111, Navrongo Tel: 024 3523848	Northern
52	<b>GREEN PLANET LTD. (A. AYARIGA)</b>	<b>TAMALE, NR</b>	P.O. Box 100, Tamale. Tel: 024 8140000	Northern
53	<b>SAKPE AGRICUTURAL ENT. (IBRAHIM ADAM FAWZY MOMOA).</b>	<b>CENTRAL GONJA, N/R</b>	P.O. Box CT 5577, Cantonment Accra Tel.	Northern
54	<b>KUKURDAMA ENTERPRISE (ALHAJI YUSUF SALIFU ABDELLA).</b>	<b>BIMBILLA, N/R</b>	P.O. Box 1104, Tamale	Northern
55	<b>BOSBBEL KOFI ANSAH</b>	<b>TAMALE, NR</b>	P. O. Box 279, Tamale 07123342, 0244864799	Northern
56	<b>LAANGU FARMERS ASS. JANGA WALEWALE WEST MAMPRUSI</b>	<b>JANGA, WALEWALE</b>	C/o MOFA P.O. Box 4 Walewale	Northern
57	<b>TIJO FARMS (ALHAJI IBRAHIM ADAM), TAMALE</b>	<b>TAMALE</b>	P.O Box 2943 Tamale Tel. 0246847774	Northern
58	<b>KURBANI FARMS</b>	<b>TAMALE</b>	P.O. Box 65 Tamale Tel. 0244686604	Northern
59	<b>DAGBON TRADITIONAL COUNCIL (ATTN ALHAJI IBRAHIM ADAM), YENDI</b>	<b>YENDI</b>	Dagbon Traditional Council, Yendi	Northern



NO.	NAME OF INDIVIDUAL/ ORGANISATION	LOCATION	ADDRESS / TEL	REGION
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

NO.	NAME OF INDIVIDUAL/ ORGANISATION	LOCATION	ADDRESS / TEL	REGION
74	<b>GBEWAA FARMERS ASSOCIATION, % ABUBAKARI IMMURURANA,</b>	<b>TAMALE</b>	P.O. Box 1967, Tamale. Tel: 0268587103,0243253331,0244704291	Northern
75	<b>SAVANNA AGRIC. &amp; TRADING CO. LTD.,</b>	<b>CHEREPONI</b>	P.O. Box DS 689, Dansoman, Accra.	Northern
76	<b>MION DISTRICT ASSEMBLY, MION</b>	<b>MION</b>	C/o Office of the Member of Parliament, Accra. Tel: 0244838977	Northern
77	<b>KPANGMANGA CO-OPERATIVE FOOD FARMING AND MARKETING SOCIETY LTD.</b>	<b>NAYUGU-GUSHEGU</b>	House No. G 103, Gushegu. Tel: 0243453492	Northern
78	<b>THE PRESIDENT, NATIONAL FARMERS &amp; FISHERMEN WARD WINNERS ASSOC.,</b>	<b>FUMBISI VALLEY</b>	Box KD 537, Kanda Accra. Tel : 021-222455, 0244-364440	Upper East
79	<b>GOODMAN &amp; SONS LTD,</b>	<b>NAVRONGO</b>	P. O Box 287, Tamale	Upper East
79	<b>LRRIGATION FARMERS ASSOCIATION (AHMED BOGOBIRI),</b>	<b>TONO, KASENA NANAKANI, UER</b>	Tono cooperative Union, C/o Icour Limited, Box 70, Navrongo	Upper East
80	<b>THE MANAGER, DOLIDONA ENT</b>	<b>BOLGATANGA</b>	P.O. Box 1 Bolgatanga Tel: 0208336643	Upper East
81	<b>HON. MAHAMA AYARIGA,</b>	<b>BAWKU</b>	Office of the President, Accra. Tel: 020 6662337	Upper East
82	<b>YELSUMDE FARMS LTD. ZONGOYIRE,</b>	<b>BAWKU WEST</b>	P.O. Box ZE 27, Bawku. Tel: 024 4409331, 024 4216591	Upper East
83	<b>BONABA CONSTRUCTION LTD.</b>	<b>PUSIGA</b>	P. O. Box 115, Bawku Tel : 0244-022425	Upper East
84	<b>THE MANAGING DIRECTOR, NYIVORI- TONA CO. LTD,</b>	<b>WA</b>	P.O. Box SR 326, Accra. Tel : 027-4523443	Upper West
85	<b>CASHEW FARMERS ASSOCIATION WIGBERT Y. DOGOLI</b>	<b>NANDOWLI DISTRICT, UW</b>	C/O CWSA Box 810 Tamale	Upper West
86	<b>MCE, WA MUNICIPAL ASSEMBLY</b>	<b>WA</b>	Wa Municipal Assembly, Wa	Upper West

<b>NO.</b>	<b>NAME OF INDIVIDUAL/ ORGANISATION</b>	<b>LOCATION</b>	<b>ADDRESS / TEL</b>	<b>REGION</b>
87	<b>DCE, WA WEST DISTRICT ASSEMBLY</b>	<b>WA</b>	Wa West District Assembly	Upper West
88	<b>DCE, WA EAST DISTRICT ASSEMBLY</b>	<b>WA</b>	Wa East District Assembly	Upper West
89	<b>DCE, JIRAPA DISTRICT ASSEMBLY</b>	<b>JIRAPA</b>	Jirapa District Assembly	Upper West
90	<b>DCE, SISALA DISTRICT ASSEMBLY</b>	<b>SISALA</b>	Sisala District Assembly	Upper West
91	<b>DCE, NANDOWLI DISTRICT ASSEMBLY</b>	<b>NANDOWLI</b>	Nandowli District Assembly	Upper West
92	<b>DCE, LAMBUSSIE DISTRICT ASSEMBLY</b>	<b>LAMBUSSIE</b>	Lambussie District Assembly	Upper West

Sources: Food and Drugs Authority (FDB)

## SECTION 6: AGRO-PROCESSING FIRMS

**Table 6. 1: SOME AGRO-PROCESSING FIRMS**

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
<b>ADDICTIVES</b>			
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
<b>ANIMAL FEED</b>			
NEW AGE FEED, MADINA, BEHIND OTINIBI CHIEFS' PALACE	DOPPYMIX EXPORT HIGH POTENCY POULTRY FEED BROILER FASTGROW, CHICKGRO, MAGGIC LAY	P.O. BOX M750, Madina	027492626
COSMO SEAFOODS CO. LTD. TEMA, G/R	COSMO FISH MEAL	P.O. BOX MS 157, Mile 7, Achimota	0302415001
HIRIGIFRED FARMS, DOBRO ANKWA ACCRA NSAWAM, E/R	HIRIGFED FEED CHICK STARTER, LAYER MESH, BROILER STARTER, BROILLER FINISHER, CHICK	P.O. BOX 13559, Accra	0244686875
FLOUR MILLS OF GHANA LTD, TEMA, G/R	SANKOFA FEED MASH LAYER, GROWER, BROILER FINISHER, CHICK	P.O. BOX CE 11345, Tema, G/R	0244326040
	SANKOFA FEED CONCENTRATE LAYER 20%, LAYER 50%, BROILER STARTER,50%, BOOILER FINISHER 50%, CHICK 50%		
<b>CEREALS</b>			
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 SNACK (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

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
PROMASIDOR (GHANA) LTD	YUMVITA INFANT CEREAL WITH MILK (MAIZE AND WHEAT, WHEAT)	P. O. BOX KA 30530 Accra,	0302436649
MHC CO. LTD., AFIENYA, TEMA, G/R	TOOK (CORNCRUNCH ONION & HERBS, CORNCRUNCH BARBECUE, CHEESE CORNES)	P. O. BOX DD 183, Afienya	0508966945
BRAZIL AGRO-BUSSINESS GROUP. SOGAKOPE, V/R.	CHAMPION LONG GRAIN PERFUMED JASMINE RICE	P. O. Box SK 139, Accra	0548306996
CCTC GHANA LTD., ACCRA, G/R	PRIDE SPECIAL GHANAIAN LONG GRAIN RICE (CCTC)	P. O. BOX KIA 30443, Accra	0302810161
ASBOAT- O COMPANY LTD., ATASEMANSO. A/R	ASBOAT-O CEREAL MIX (WHEAT & RICE, RICE, OATS &RICE, MIXED CEREALS (MAIZE, RICE WHEAT & OATS)	P. O. BOX KS 1705 Kumasi	0244796263
FOOD RESEARCH INSTITUTE, ACCRA, G/R	FRI CEREAL MIX (MAIZE & RICE) FRI MAIZE (FERMENTED MAIZE GRITS) FRI BANKU MIX POWDER	P. O. BOX M20, Accra	0302-519091-5
ROSEMARY ANABIA ENTERPRISE. LASHIBI-TEMA. G/R	ANABIA MILLET TOM BROWN	P. O. BOX DTD No B32 Lashibi –Tema	0244-206156
CYNLAND ENTERPRISE	CYNLAND TOMBROWN	P. O. BOX KN 229 Kaneshie- Accra G/R	03022366442
EMILKHAN ENT., TAMALE	D YOUNGS CEREALS (PURE SOYA FLOUR, BROWN RICE-GROUNDNUT-SOYABEANS MIX)	P. O. BOX 309, Tamale	020-834-6068
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

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
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 AI BAKERY, ASOKORE-MANPONG A/R	OLIVER CEREAL MIX	P. O. BOX UP 715. KNUST –A/R	0208448853
MAWUUWOE CO-OPERATIVE RICE PROCESSORS AND MARKETING SOCIETY LIMITED, HOHOE	FORHON TOMBROWN	P. O. BOX 124, Hohoe V/R	0541015727
KINGS TOUCH SERVICES	KINGS TOUCH MILLET MIX CEREAL	P. O. BOX ST 606, Accra –North	0244717791
NESTLE GHANA LTD., ACCRA, G/R	NESTLE MILO NUTRILFILL READY-TO-EAT CEREAL  NESTLE CERELAC INFANT CEREAL WITH MILK (WHEAT, FRUIT, RICE, HONEY)  NESTLE CERELAC INFANT CEREAL WITH MILK (MAIZE)	P. O. BOX 8350, Tema	0544335484
TAKORADI FLOOR MILL LTD., TAKORADI-W/R	SOFT SPECIAL PASTRY WHEAT FLOUR  SELECTED HARD SPRING WHEAT FLOUR (SUNRISE)	P. O. BOX 663, Takoradi	0312024053

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
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
<b>CONFECTIONERY</b>			
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	SUNNY 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
<b>DAIRY</b>			
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 Coast	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

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
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 FANTASY VANILLA ICE CREAM  FROSTY 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 & STRAWBERRY 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 FLAVORED YOGHURT	C/O Sunyani Senior High Sch, BOX 156, Sunyani, 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
<b>DRINKS</b>			
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 CHEMISTS (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
CHRISLISLAW VENTURES, WINNEBA OPP. NORTH CAMPUS, C/R	CHRISLAW SPICY DRINK	P. O. BOX CO 2871, Tema	0262 002943
AKPET GLOBAL LIMITED, MEDINA, G/R	AKPET ICE ORIGINAL ACETATE	P.O. AM 412, Amasaman	0209 858503
<b>FATS &amp; OILS</b>			
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, Cantonment, 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, Odorkor, 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
PLEASANT DALES EXPRESS	QUEENS VIRGIN COCONUT OIL	P. O. BOX 1497 Dansoman, Accra	0277321000
AMEPET ENT., ACCRA, G/R	AMEPET ZOMI PALMOIL	P. O. BOX NG 262, Nungua, Accra	0240508870
WILMAR AFRICA LTD., TEMA	ALFFI VEGETABLES OIL	P. O. BOX P.M.B 169, Tema	0207495093
DKM SHEA BUTTER PROCESSING FACTORY	DKM SHAEA BUTTER	P. O. BOX 2068, Wa	0203788899

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
LTD., WA, U/W			
MEANNAN FOODS, TEMA, G/R	MEANNAN FOODS 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
C & S FOODS GH. LTD., CEMSDA IRON CITY, C/R	GHANA PALM OIL- (REGULAR, ZOMI) GHANA TASTE ZOMI PALM OIL NIGERIA TASTE PALM OIL	P. O. BOX OD 1081, Odorkor, Accra	0244638499
<b>FISH &amp; FISH PRODUCTS</b>			
ICHIBAN SEAFOODS CO. LTD., TEMA HARBOR 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
<b>FRUITS</b>			
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
<b>MEAT &amp; MEAT PRODUCTS</b>			

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
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	P. O. BOX CT 20, Cantonments-Accra	0244 737166
	MASTER MEATS SMOKED TURKEY WINGS		
	MASTER MEATS SMOKED BEEF SAUSAGE		
	MASTER MEATS BEEF BILTONG		
	MASTER MEATS STEAKS (GAMMON STEAKS & KASSLER STREAKY BACON, SMOKED PORK RASHERS)		
	MASTER MEAT SMOKED PORKS SAUSAGE		
	MASTER MEATS COOKED SALAMI		
	MASTER MEATS FRENCH POLONY		
T.T. INTERNATIONAL LTD., TEMA	TASTY MORTADELLA (BEEF) TASTY MORTADELLA (CHICKEN) LELE BEEF SAUSAGE	P. O. BOX DC 1214, Dansoman	0244 336475
<b>ROOTS &amp; TUBERS</b>			
CASSO L 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	P. O. Box 7565, Accra-North	0203 140085
	AFICAN KING PLANTAIN FUFU FLOUR		
MINAS GOD REIGNS ENT., KUMASI, A/R	MINAS PLANTAIN CHIPS	P. O. Box R 470 Railways Kumasi	0243 321076
FUDEES LIMITED. KASOA. 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.,	AFFI VITAL FOODS GARI (SCHOOL	P. O. Box EF 91, Effiduase-Kumasi, A/R	0267 110726

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
KUMASI, A/R	SNAX, FLAVEZ, SOYA GARI AND PARCHED CRISPY GARI)		
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 PLAINTAIN CHIPS (SPICY, SALT-FREEZE AND SALTY)	P. O. Box GP 1771, Accra	0246 96 2328
<b>SPICES &amp; CONDIMENTS</b>			
BAYS WATER INDUSTRIES LTD., KETA	MR. CHEF SHRIMP SEASONING	P. O. Box 91, Keta	0543 132163
BRM TRADING CO. LTD., TAMALE	BRM DAWADAWA SPICE	P. O. Box 1184, Tamale	0244455559
BIN-ABI VENTURES, SABONGIDA, N/R	BIN-ABI DAWADAWA SPICE	P. O. Box 1145 Tamale N/R	0208388288
ZAK BELIM VENTURES, ABELEMPPE, ACCRA, G/R	BELIM DAWADAWA POWDER	P. O. Box NM 130, Nima Accra	0249465861
A1 SPICES	MAMI'S SPICE (WHITE PEPPER MIX, CURRY POWDER)  MIMI'S 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
<b>SUGAR &amp; SUGAR PRODUCTS</b>			
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

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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-CEDAR VENTURES	CEDAR 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
<b>VEGETABLE, LEGGUMES &amp; PULSES</b>			
FOOD TECH LIMITED, ACCRA	SNAPPY CRISPY PEANUT SNACKS	P.O.BOX 250	0302229336
WINKER INVESTMENT LIMITED	WINKER CASHEW NUTS	P.O.BOX 278 Accra	0572716215
GHATTY FOODS, ACCRA G/R	GHATTY FOODS GROUNDNUT PASTE GHATTY FOODS COWPEA	P.O.BOX ml Mallam, Accra	0264364574
RAJKUMAR IMPEX GHANA LIMITED TECHIMAN.	RAJKUMAR IMPEX BLANCHED CASHEW KERNELS	P.O.BOX 855 Techiman	0242329002
ST. BAASA GH.LTD. B/A	FRESH MAMA PALM NUT CREAM	P.O.BOX 92 Chiraa Sunyani	0200950330
HEALTHY SNACK SEEDS LTD TEMA, G/R	HEALTHY SNACKS (SESAME SEED, MIXED SEEDS)	P.O.BOX 677 Legon, Accra	0207053724
GLOBAL NANAFUA SERVICES, ACCRA, G/R	GLOBAL NANAFUA ROASTED CASHEW NUTS	P.O.BOX GP 14848 Accra, G/R	0208211500
FOOD RESEARCH INSTITUTE ACCRA, G/R	CSIR GROUNDNUT PASTE	P.O.BOX M20, Accra	03025190915
TIP TOP FOOD L TD, HO V/R	TOMAFRESH TOMATO PUREE	P.O.BOX AW 14 Angola V/R	0244060442
CONSERVERIA AFRICANA GHANA LTD., TEMA, G/R	POMO TOMATO PASTE (70G SACHET)	PMB 292 Community 1 Tema	0244622789
NANA ADEBI ENTERPRISE, ACCRA, G/R	NANA ADEBI ROASTED CASHEW NUTS	P.O.BOX A 329 La, Accra	0208116610
DONPOSH HOMEMADE FOODS, KUMASI, A/R	ADIDIPA MELON SEEDS PASTE (WREWRE)	P.O. Box KS 12541, Kumasi	0244 791387
DANIELS MUSHROOM FARMS, KUMASI A/R	WISE CHOICE FRESH OYSTER MUSHROOMS	P.O. Box 1279, Adum-Kumasi	0241437413
ADB AND SONS CO. LTD., KUMASI, A/R	DIANA’S TOMATO PUREE	P.O. Box SE 1815, Suame-Kumasi, A/R	0241773256
CYNLAND ENTERPRISE, KANESHIE-ACCRA, G/R	CYNLAND CREAMY GROUNDNUT BUTTER	P.O. Box KN 229, Kaneshie Accra, G/R	030236642
GRACE FOODS, ACCRA, G/R	SNAPPLE TOMATO KETCHUP	P.O. Box 11116	0249453079

MANUFACTURER	PRODUCT	CONTACT	TEL. NUMBERS
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	2013	2014	2015	2016	2017	2018	2019
CASSAVA	499.65	440.37	526.86	1,328.30	1,086.31	1,084.24	1,294.18
YAM	907.92	942.78	1,220.63	1,592.57	1,933.04	1,753.10	2,448.62
PLANTAIN	900.84	1,001.42	1,086.45	2,521.77	2,275.44	1,941.21	2,853.53
COCOYAM	1,074.27	1,221.21	1,215.80	2,026.24	2,154.29	1,444.64	3,205.09
MAIZE	741.01	1,066.56	1,421.69	1,423.22	1,353.00	1,438.07	1,582.59
SORGHUM	1,094.94	1,325.22	1,413.76	1,442.01	1,826.55	2,023.80	3,013.40
GROUNDNUT	3,120.04	3,646.70	4,879.15	4,985.65	4,516.16	4,640.42	5,337.31
MILLET	1,439.40	1,616.73	897.05	1,889.19	2,251.99	2,732.91	2,791.40
RICE	1,660.80	2,223.25	2,657.21	4,209.04	4,024.91	3,315.98	3,928.12
TOMATO	3,305.37	4,253.09	5,246.83	5,159.01	2,650.96	4,606.79	7,044.47

*Source: Statistics, Research, and Information Directorate, SRID-MOFA (2019)*

*See Appendices 1-10 for price trend graphs.*

*Table 7. 2: ANNUAL REAL AVERAGE RURAL WHOLESALE PRICES (GH¢ PER MT)*

CROP	2013	2014	2015	2016	2017	2018	2019
CASSAVA	465.65	384.26	348.89	348.89	564.08	495.20	1159.66
YAM	846.15	822.67	808.31	897.73	1003.76	800.69	2194.11
PLANTAIN	839.55	873.84	719.46	1421.51	1181.56	886.60	2556.93
COCOYAM	1001.19	1065.62	805.11	1142.19	1118.65	659.81	2871.94
MAIZE	690.59	930.68	941.45	802.27	702.57	656.80	1418.09
SORGHUM	1020.45	1156.39	947.46	812.96	948.46	924.32	2700.18
GROUNDNUT	2907.77	3182.11	3231.01	2810.40	2345.08	2119.40	4782.51
MILLET	1341.47	1410.76	594.03	1064.92	1169.38	1248.19	2501.25
RICE	1547.81	1940.01	1759.62	2372.62	2089.99	1514.49	3519.82
TOMATO	3080.49	3711.25	3474.49	2908.12	2650.96	2104.04	6312.25

*Source: Statistics, Research, and Information Directorate, SRID-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	2014	2015	2016	2017	2018	2019	% CHANGE				
								2014/2015	2015/2016	2016/2017	2017/2018	2018/2019
<b>NPK</b>	50kg	80.69	115.17	107.56	112.00	102.50	90.47	42.73	-6.61	4.13	-8.48	-11.74
<b>SULPHATE OF AMMONIA</b>	50kg	68.19	99.51	92.71	91.00	91.750	84.99	45.93	-6.83	-1.84	0.82	-7.37
<b>UREA</b>	50kg	71.31	104.19	98.71	102.00	95.06	88.96	46.11	-5.26	3.33	-6.80	-6.42
<b>ROUND UP</b>	1 litre	14.85	20.54	21.67	21.90	16.49	21.52	38.32	5.50	1.06	-24.7	30.50
<b>KARATE</b>	1 litre	12.73	13.20	14.00	16.27	21.14	20.88	3.69	6.06	16.21	29.93	-1.23
<b>ACTELIC</b>	1 litre	NA	18.29	23.83	18.00	31.20	38.86	-	30.29	-24.46	73.33	24.55
<b>HOE</b>	Single	6.71	9.09	11.44	12.35	12.84	14.73	35.47	25.85	7.95	3.97	14.72
<b>CUTLASS</b>	Single	11.20	16.02	16.98	16.34	17.61	18.46	43.04	5.99	-3.77	7.77	4.83
<b>JUTE SACK</b>	Single	2.98	6.54	7.00	5.26	4.33	4.00	119.46	7.03	-24.86	-17.68	-7.62

Source: Statistics, Research, and Information Directorate, SRID-MOFA



**Table 7. 4: COST OF FERTILIZER SUBSIDY WITH QUANTITY**

YEAR	TOTAL SUBSIDY PAID BY GOVERNMENT (GHC'000)	TOTAL QUANTITY (MT)
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
2019	461,505	331,354
<b>TOTAL</b>	<b>1,465,867</b>	<b>1,674,443</b>

Source: Directorate of Crops Services (DCS) –MOFA, 2017

\* No fertilizer subsidy scheme

**Table 7. 5: FULL VS. SUBSIDIZED COST OF FERTILIZER – 2019**

FERTILIZER TYPE	FULL COST (GHC)/50KG	SUBSIDY PRICE (GHC)/50KG	FARMERS' PRICE (GHC)/50KG	PERCENTAGE (%) OF SUBSIDY
NPK (23-10-05)	160	85	75	53
NPK (15-15-15)	155	80	75	52
UREA	140	70	70	50
SULPHATE OF AMMONIA (SOA)	-	No subsidy	No subsidy	50

Source: Directorate of Crops Services (DCS) -MOFA

## SECTION 8: AGRICULTURE AND THE NATIONAL ECONOMY

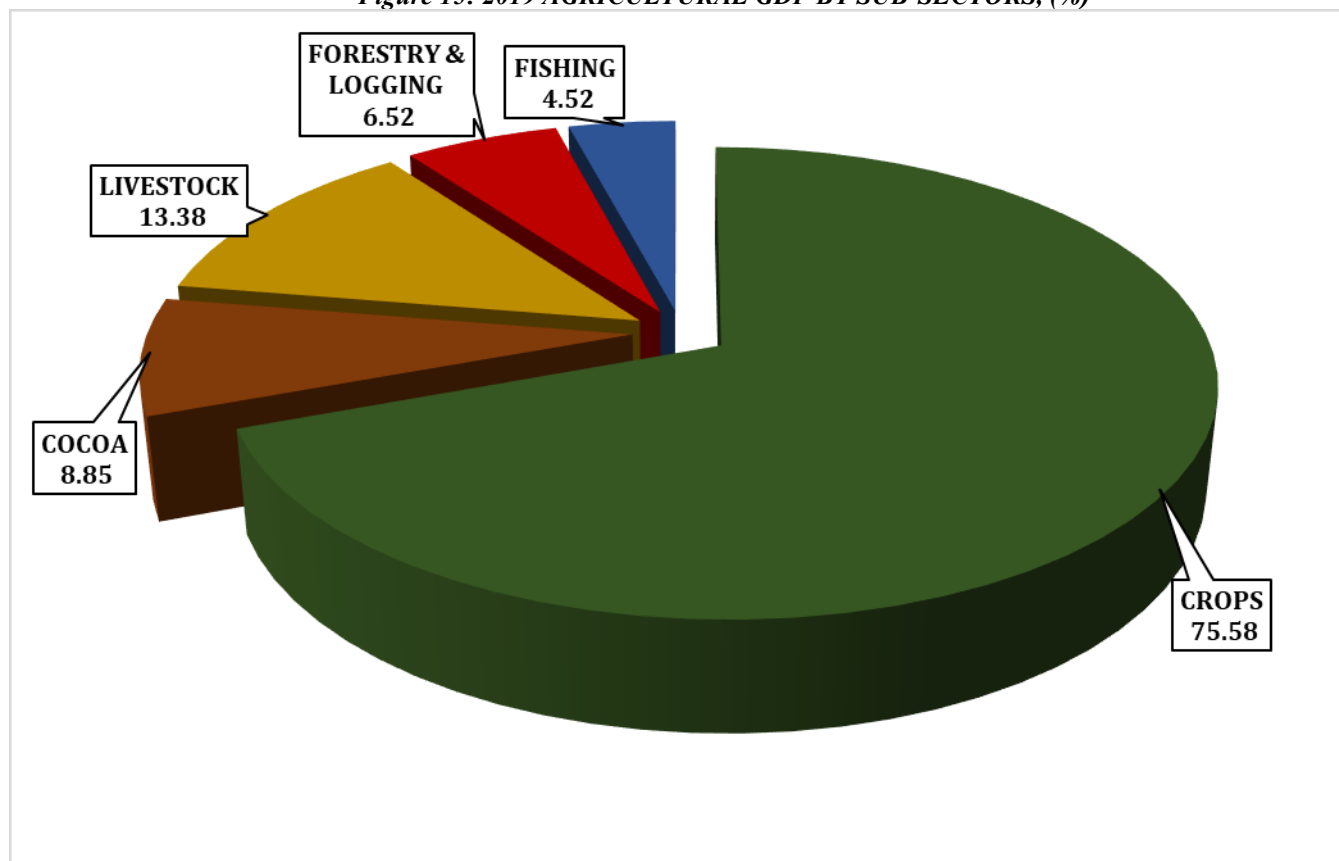
**Table 8. 1: CONTRIBUTION OF VARIOUS SUB-SECTORS TO AGRICULTURAL GDP (2013 CONSTANT PRICES) (%)**

	2013	2014	2015	2016	2017	2018	2019	2020*
<b>AGRICULTURE</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>
CROPS	73.05	72.09	72.46	76.39	77.28	78.26	79.21	81.16
<i>O.W. COCOA</i>	10.24	13.73	13.04	10.99	10.68	10.17	9.38	9.02
LIVESTOCK	12.06	12.60	11.59	10.01	9.70	9.45	9.16	8.31
FORESTRY AND LOGGING	7.94	9.15	9.27	7.61	7.76	7.45	6.89	5.59
FISHING	6.95	6.16	6.68	5.99	5.26	4.84	4.74	4.94

Source: Annual 2013 - 2020 GDP, (April 2021 Edition) - Ghana Statistical Service (GSS)

\* Provisional estimates

**Figure 15: 2019 AGRICULTURAL GDP BY SUB-SECTORS, (%)**



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	INDUSTRY	SERVICES	
2013	21.43	35.87	42.70	118,314
2014	21.83	37.03	41.14	142,365
2015	21.86	33.81	44.33	167,731
2016	22.59	29.81	47.60	202,606
2017	21.12	31.94	46.94	243,432
2018	19.65	33.02	47.33	284,771
2019	18.52	33.23	48.25	333,555
2020*	19.09	36.30	44.62	386,880

Source: Annual 2013 - 2020 GDP, (April 2021 Edition) - Ghana Statistical Service (GSS)

\* Provisional estimates

**Table 8. 3: AGRICULTURE AND OTHER SECTOR GDP GROWTH RATES AT 2013 CONSTANT PRICES (%)**

YEAR	SECTOR			NATIONAL
	AGRICULTURE	INDUSTRY	SERVICE	
2013	5.7	10.0	6.6	7.3
2014	0.9	1.1	5.2	2.8
2015	2.1	1.2	2.9	2.1
2016	2.7	4.3	2.8	3.3
2017	6.2	15.6	3.4	8.3
2018	4.9	10.5	2.8	6.1
2019	4.7	6.4	7.6	6.5
2020*	7.4	-3.6	1.5	0.7

Source: Annual 2013 - 2020 GDP, (April 2021 Edition) - Ghana Statistical Service (GSS)

\* Provisional estimates

**Table 8. 4: AGRICULTURE SUB- SECTOR GDP GROWTH RATES AT 2013 CONSTANT PRICES (%)**

YEAR	SUB-SECTOR					AGRICULTURE
	CROPS	COCOA	LIVESTOCK	FORESTRY& LOGGING	FISHERIES	
2013	5.9	2.6	5.3	4.6	5.7	5.7
2014	2.8	4.3	5.1	-1.5	-23.3	0.9
2015	1.7	-8	5.2	-3.9	8.5	2.06
2016	2.2	-7	5.4	2.9	3.1	2.73
2017	7.2	9.2	5.7	3.4	-1.4	6.21
2018	5.8	3.7	5.4	2.4	-6.8	4.88
2019	5.3	5.4	5.4	-1.7	1.7	4.66
2020*	8.7	1.9	5.4	-9.2	14.4	7.39

Source: Annual 2013 - 2020 GDP, (April 2021 Edition) - Ghana Statistical Service (GSS)

\* Provisional estimates

**Table 8. 5: AGRICULTURE SHARE OF 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 BOAD	3,264,901	2,797,342	3,504,490	3,440,722	3,387,185	3,646,587
<b>TOTAL AGRIC EXP</b>	<b>4,513,392</b>	<b>4,016,611</b>	<b>5,344,291</b>	<b>5,057,364</b>	<b>5,346,196</b>	<b>5,486,739</b>
<b>TOTAL NAT EXP</b>	<b>51,998,055</b>	<b>40,930,231</b>	<b>50,363,198</b>	<b>50,251,936</b>	<b>52,599,731</b>	<b>53,141,571</b>
<b>% OF AGRIC/ NAT. EXP</b>		<b>9.8%</b>		<b>10.1%</b>		<b>10.3%</b>

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

**Table 8. 6: PERFORMANCE OF NON-TRADITIONAL AGRICULTURAL EXPORTS**

ITEMS	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
TOTAL VOLUME OF NON-TRADITIONAL AGRIC. EXPORTS ('000 MT)	299.5	547.1	553.1	552.4	571.6	670.1	612.2	515.7	620.2	656.2
VALUE OF NON-TRADITIONAL AGRICULTURAL EXPORTS IN US \$M	164.9	297.0	276.4	306.1	340.7	396.9	371.1	441.0	591.0	430.0
TOTAL VALUE OF ALL NON-TRADITIONAL EXPORTS US \$B.	1.6	2.4	2.4	2.4	2.5	2.5	2.5	2.6	2.8	2.9
CONTRIBUTION (%) OF NON-TRADITIONAL AGRICULTURAL EXPORTS	10.1	12.3	11.7	12.6	13.6	15.7	15.1	17.3	21.0	14.8

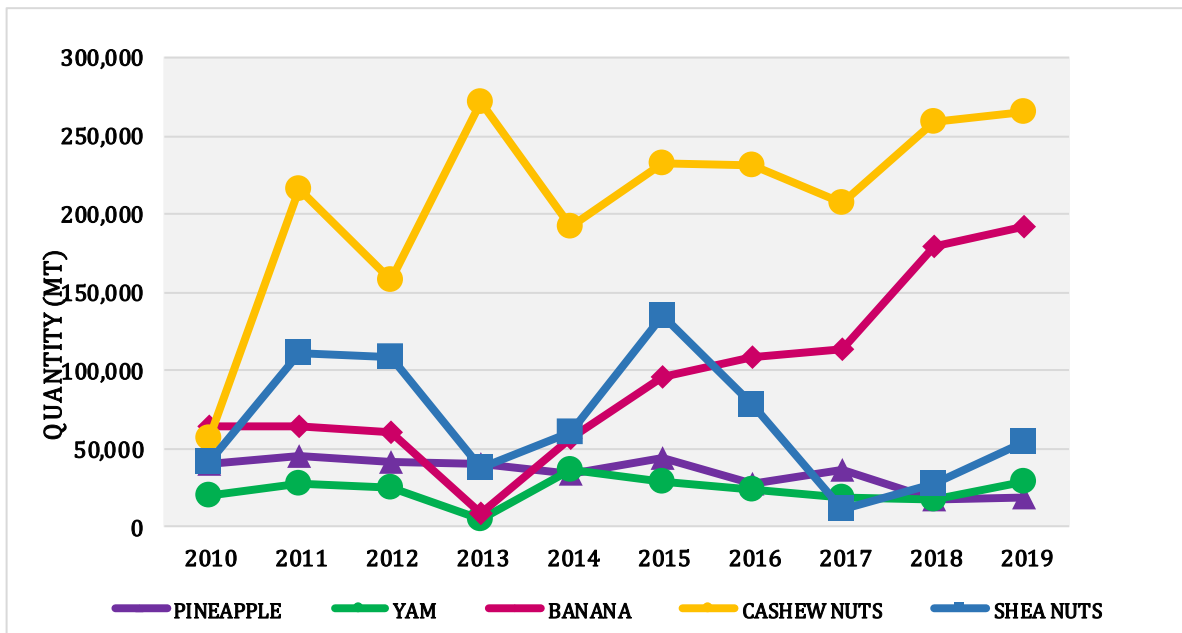
Source: Ghana Export Promotion Council, Accra.

**Table 8. 7: VOLUME OF MAIN NON-TRADITIONAL AGRICULTURAL EXPORTS (MT.)**

COMMODITY	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% CHANGE (2018/2019)
<b>HORTICULTURAL:</b>											
PINEAPPLE	40,141	45,057	41,212	40,095	33,634	43,461	27,148	36,331	17,507	18,280	4%
YAM	19,485	27,393	25,079	5,230	36,826	28,296	24,105	18,644	17,279	29,037	68%
ORANGES	10,729	3,812	7,589	8,233	9,025	5,062	6,789	6,059	7,192	10,153	41%
VEGETABLES	3,695	11,658	1,960	n. a	870	338	294	580	405	552.91	37%
BANANA	64,202	63,761	60,425	8,656	56,075	95,180	108,473	112,861	178,903	191,222	7%
MANGOES	291	869	1,222	1,789	1,276	2,219	2,122	1,741	2,817	1,953	-31%
PAWPAW	812	920	426	1,119	1,295	664	520	1,639	1,240	1,446	17%
<b>FISH &amp; SEA FOODS:</b>											
TUNA FISH	20,632	4,707	19,799	6,496	26,820	12,138	26,387	33,167	31,455	29,109	-7%
OTHER FISH	4,855	7,972	n. a	7,008	5,792	4,654	8,076	4,695	3,560	1,989	-44%
LOBSTERS/SHRIMPS, ETC.	75	57	18	52	93	27	-	59	55		-100%
CUTTLEFISH & OCTOPUS	388	560	412	130	556	1,020	5,556	10,546	6,193	4,103	-34%
<b>PROCESSED &amp; INDUSTRIAL:</b>											
CASHEW NUTS	57,095	215,587	157,176	271,537	192,376	232,835	231,555	207,479	259,432	265,078	2%
COCOA PRODUCTS	n. a	233,730	n. a	n. a	220,308	n. a	261,816	-	-		
RAW/LINT COTTON	729	1194	n. a	n. a	2,516	598	1,662	398	n. a	8.105	
COFFEE	1,737	9,035	48,517	918	112	174	538	8	0.1	41.15	41050%
COTTON SEED	419	3,530	7,077	2,984	509	n. a	n. a	370	42		-100%
KOLA NUT	7,878	1,186	1,758	527	135	n. a	n. a	7,898	2,867	2,807	-2%
SHEA NUTS	41,219	111,194	108,976	37,518	59,909	134,651	78,268	10,983	27,967	53,566	92%

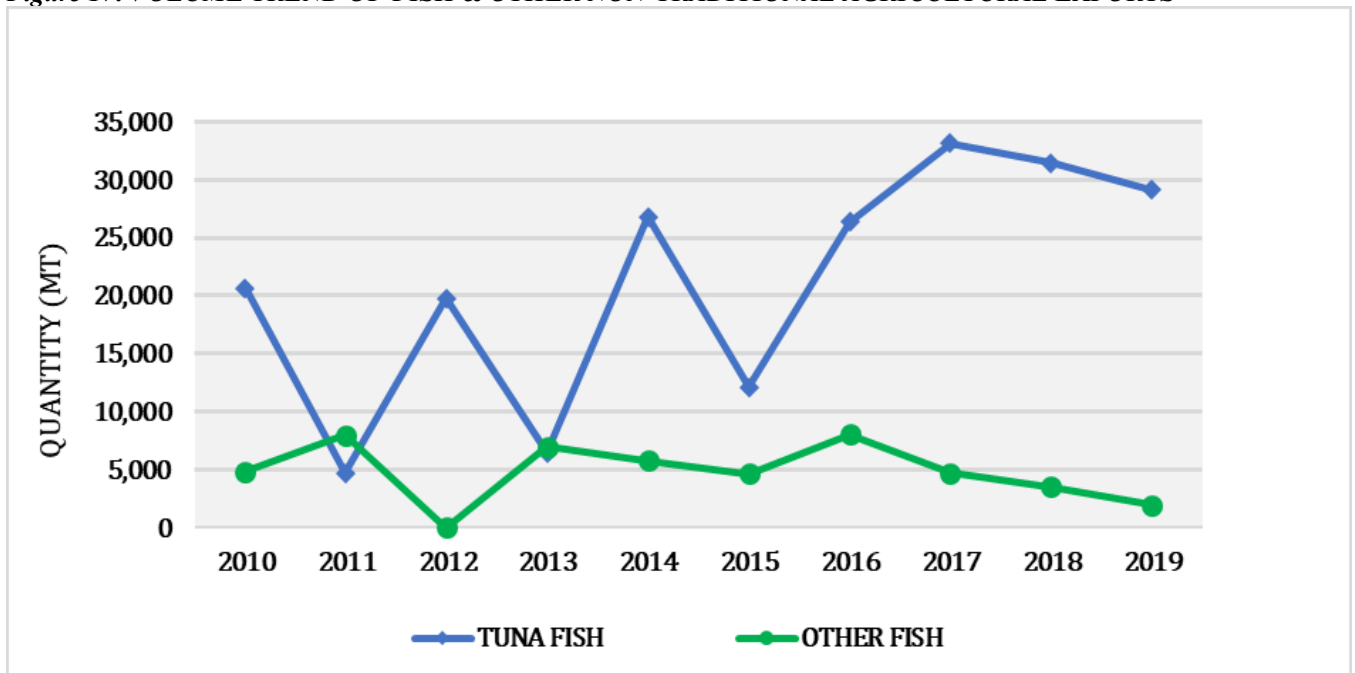
Source: Ghana Export Promotion Council (GEPC), Accra  
n.a: not available.

Figure 16: VOLUME TREND OF NON-TRADITIONAL CROP EXPORTS



Source: Based on Table 8.7

Figure 17: VOLUME TREND OF FISH & OTHER NON-TRADITIONAL AGRICULTURAL EXPORTS



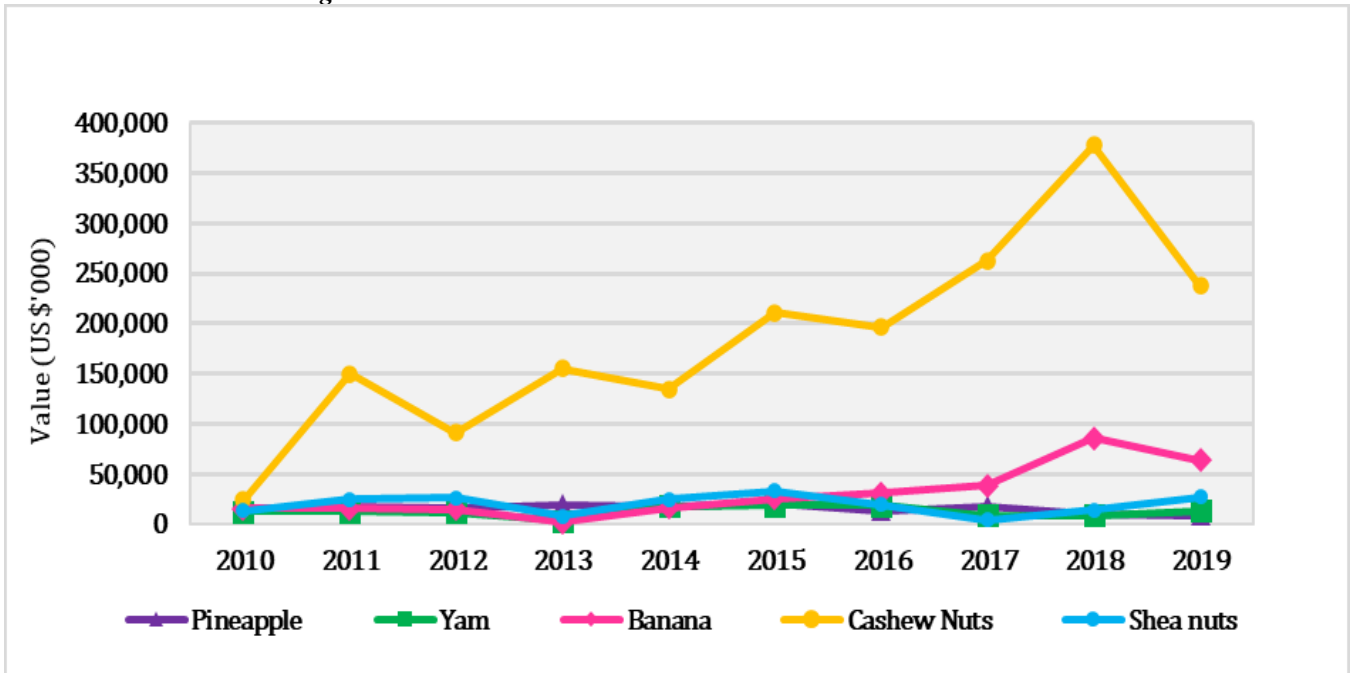
Source: Based on Table 8.7

**Table 8. 8: VALUE OF MAIN AGRICULTURAL NON-TRADITIONAL EXPORTS (US \$'000)**

COMMODITY	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	% CHANGE (2018/2019)
<b>HORTICULTURAL:</b>											
PINEAPPLE	13,555	16,973	16,816	19,209	17,960	20,539	13,727	18,056	9,254	9,228	0
YAM	12,688	12,730	12,251	3,255	18,282	18,980	18,977	8,516	8,621	13,690	0.59
ORANGE (FRESH)	654	226	483	534	707	310	341	475	668	388	-0.42
VEGETABLES	2,067	3,878	1,215	n. a	705,549	268	275	602	291	551	0.89
BANANA	15,533	15,357	15,317	2,287	16,699	25,443	30,853	38,797	85,544	63,828	-0.25
MANGOES	230	2,786	2,689	5,111	6,247	7,618	11,596	10,852	12,946	12,527	-0.03
PAWPAW	971	448	136	713	595	446	343	1,159	906	962	0.06
<b>FISH &amp; SEA FOODS:</b>											
TUNA FISH	37,421	10,269	44,999	24,390	42,851	27,785	26,374	57,712	44,093	38,890	-0.12
OTHER FISH	9,062	17,088	13,940	7,696	10,043	3,711	3,111	2,967	1,959	655	-0.67
LOBSTERS/SHRIMPS, ETC	341	289	92	389	952	143	n. a	268	24	n. a	
PROCESSED TUNA	n. a	220,697	n. a	n. a	n. a	n. a	n. a	n. a	n. a	145,707	
CUTTLEFISH/OCTOPUS	836	4,487	1,455	464	2,476	3,803	4,087	11,447	10,074	5,399	-0.46
<b>PROCESSED &amp; INDUSTRIAL:</b>											
CASHEW NUTS	24,435	149,715	91,290	155,629	134,614	211,328	196,784	262,945	378,210	237,889	-0.37
COCOA PRODUCTS	n. a	876,278	n. a	n. a	649,997	n. a	543,046	n. a	-	860,865	
RAW/LINT COTTON	228	253	508	n. a	3,865	864	2,049	664	-	1,535	
COFFEE	1,974	8,980	n. a	4,278	168	570	1,621	66	0.10	89	890.25
COTTON SEED	172	259	970	927	908	n. a	n. a	16	7	n. a	
KOLA NUT	1,990	259	393	93	27	n. a	n. a	1,502	553	607	0.10
SHEA NUTS	13,791	25,087	26,338	8,063	25,046	33,572	19,165	4,027	14,103	27,190	0.93

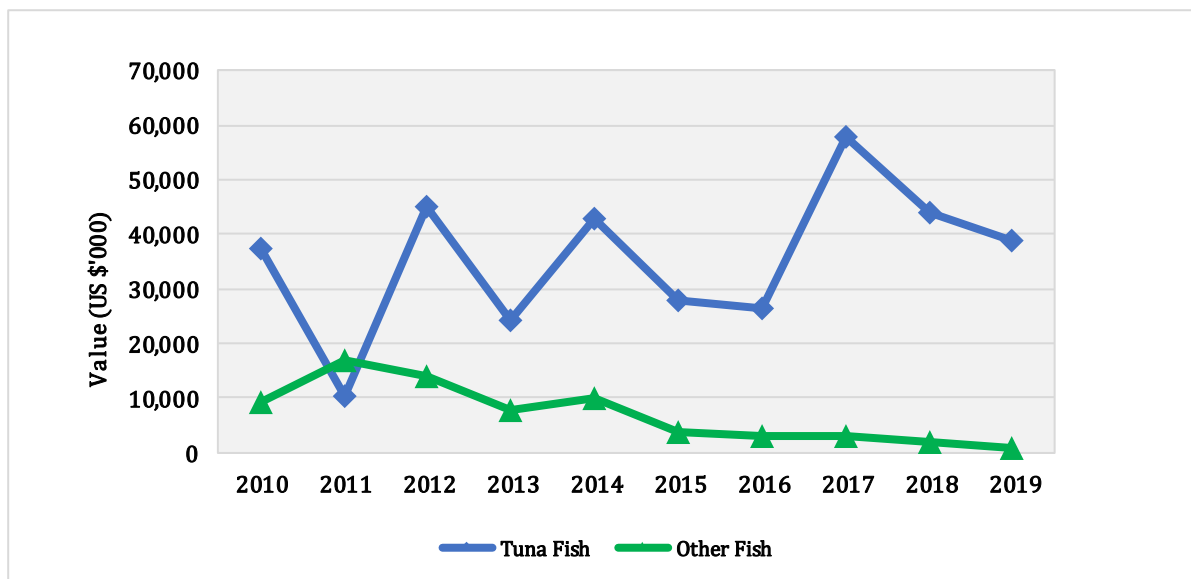
Source: Ghana Export Promotion Council (GEPC), Accra

**Figure 18: VALUE TREND OF MAJOR NON-TRADITIONAL EXPORTS**



Source: Based on Table 8.8

**Figure 19: 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	QUANTITY/ VALUE	WHEAT	RICE	MAIZE	SORGHUM
2009	QUANTITY (MT)	329,970	383,985	34,333	0.2
	VALUES \$ MILLION	121.80	218.50	8.10	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	319.80	6.79	0.10
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	0.10
	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, 2010-2019**

YEAR	NPK (MT)	NPK (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)
2010	30,560	11,521	16,079	12,077	52,117	236,547	n. a.	n.a.	130,314	-	-	489,215	11,521
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	121,510	71,800	23,594	25,573	59,676	43,040	49,492	n.a.	n.a.	*546,028	n.a.	430,610	510,103
2016	258,290	127,565	16,353	14,268	14,417	109,961	3,450	3,627	n.a.	20,459	523,646	440,826	651,211
2017	153,767	14,351	78,591	26,018	36,833	23,280	2,203	n.a.	n.a.	178,875	2,839,351	499,566	2,853,702
2018	224,176	-	42,005	15,993	10,084	703	90,019	74	n.a.	-	-	383,054	-
2019	217,024	99334	77,011	42,235	17,326	4189	-	3831	-	63,494	1,570,654	425,110	1,669,988

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. <sup>a</sup>NPK includes 15-15-15 and other NPKs.

\*Figures include liquid fertilizers.

\*\*OTHERS: (ZnSO<sub>4</sub>, Fe<sub>3</sub>SO<sub>4</sub>, Ca (NO<sub>3</sub>)<sub>2</sub> MgSO<sub>4</sub>, K<sub>2</sub>SO<sub>4</sub>, Mg (NO<sub>3</sub> NH<sub>4</sub>NO<sub>3</sub>)<sub>2</sub>,

n.a. = Figures not available.

**Table 8. 11: PESTICIDE IMPORTS (MT)**

TYPES OF PESTICIDES	YEAR									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
<b>INSECTICIDE</b>	8,735*	832,810	543,000	1,539	6,513	3,695	5,742	1,620	1,295	1,247
<b>FUNGICIDE</b>	4,955	596,000	180,000	4,599	1167	1,328	4,707	4,482	1,770	4,069
<b>HERBICIDE</b>	n. a.	854,400	991,300	4,723	7,889	294,009	32,947	19,113	6,975	8,063
<b>TOTAL</b>	<b>13,690</b>	<b>2,283,210</b>	<b>1,714,300</b>	<b>10,861</b>	<b>15,569</b>	<b>299,032</b>	<b>43,396</b>	<b>25,215</b>	<b>10,040</b>	<b>13,379</b>

Source: GSS, Accra (2004 – 2010), Plant Protection and Regulatory Services Directorate (PPRSD), MOFA (2011 – 2019)

n.a.: Figures not available.

\* Value also includes that for Rodenticides.

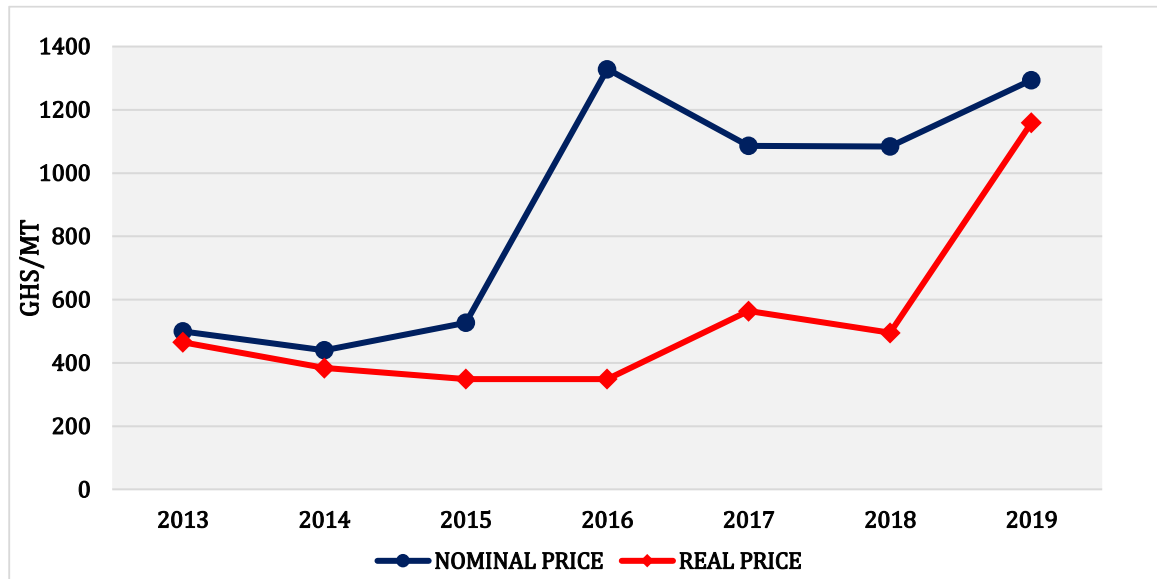
**Table 8. 12: PESTICIDE IMPORTS (LITRES)**

TYPES OF PESTICIDES	YEAR									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
<b>INSECTICIDE</b>	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	7,118,201
<b>FUNGICIDE</b>	698,000	52,000,000	186,000,000	637,564	481,330	219,884	178,278	682,476	336,332	348,176
<b>HERBICIDE</b>	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	35,142,725
<b>TOTAL</b>	<b>16,928,000</b>	<b>87,100,000</b>	<b>204,810,000</b>	<b>43,645,107</b>	<b>35,870,721</b>	<b>40,474,564</b>	<b>63,500,570</b>	<b>48,487,179</b>	<b>40,538,308</b>	<b>42,609,102</b>

Source: Plant Protection and Regulatory Services Directorate (PPRSD), MOFA

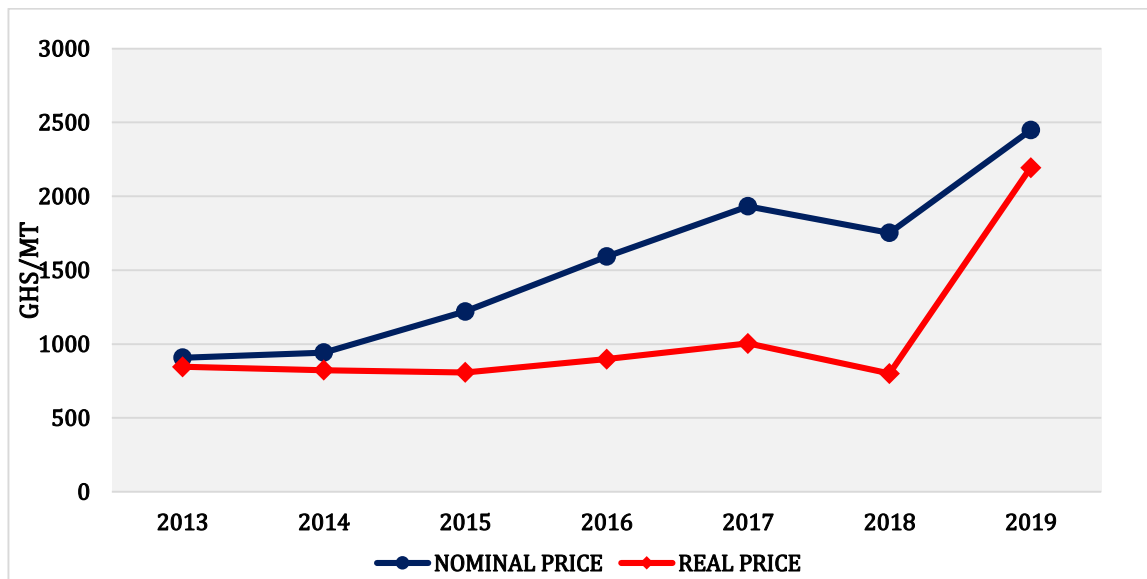
## APPENDICES

### APPENDIX 1: AVERAGE RURAL WHOLESALE\* PRICE FOR CASSAVA



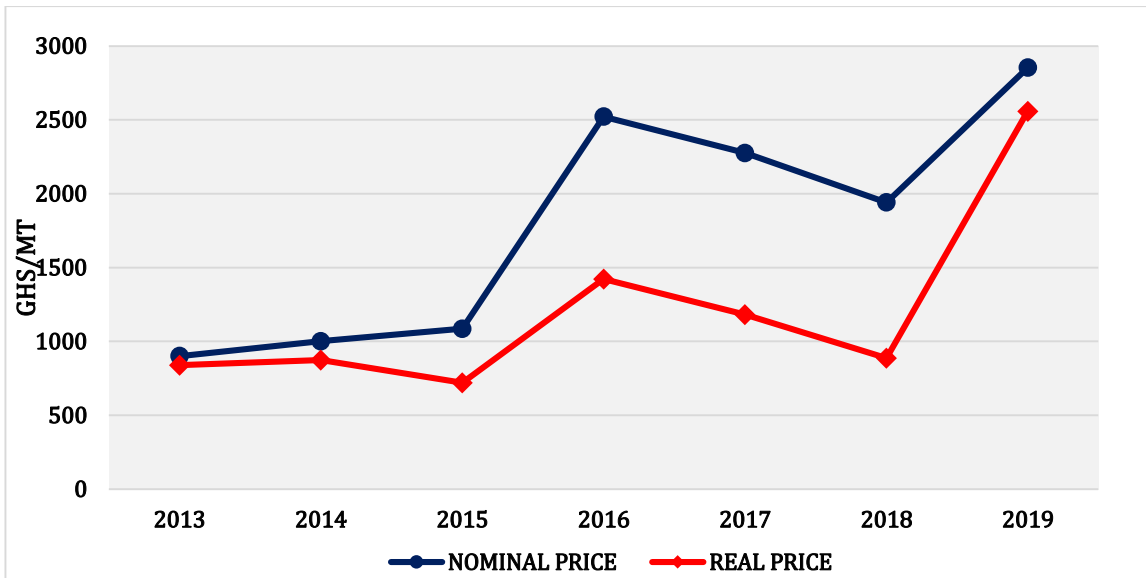
*A Rebased CPI with 2012 constant prices*

### APPENDIX 2: AVERAGE RURAL WHOLESALE PRICE FOR YAM, (GHC/MT)



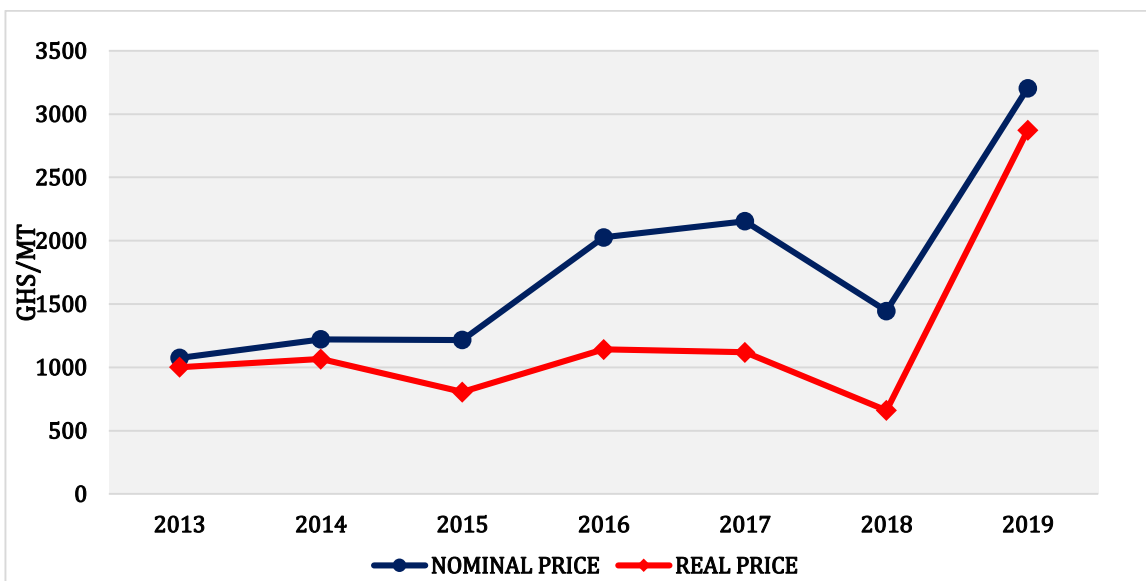
*A Rebased CPI with 2012 constant prices*

**APPENDIX 3: AVERAGE RURAL WHOLESALE PRICE FOR PLANTAIN, (GH¢/MT)**



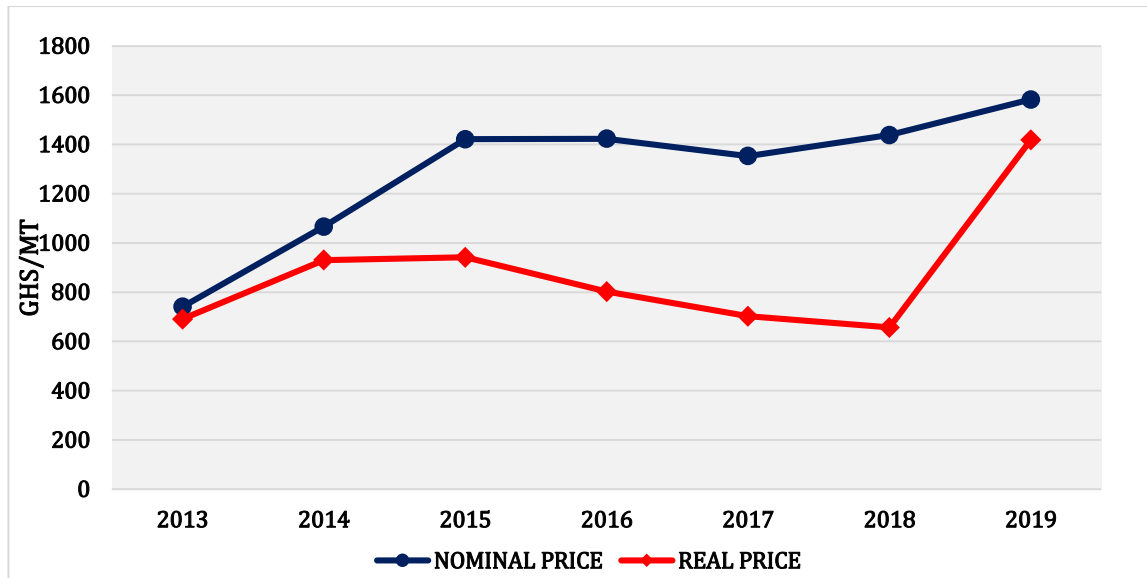
*A Rebased CPI with 2012 constant prices*

**APPENDIX 4: AVERAGE RURAL WHOLESALE PRICE FOR COCOYAM, (GH¢/MT)**



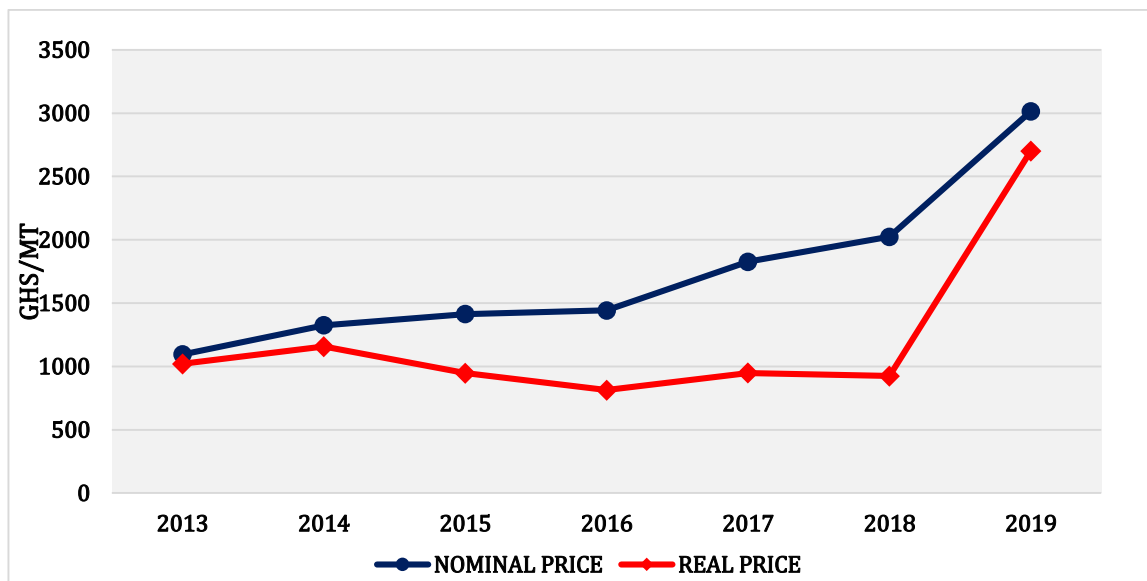
*A Rebased CPI with 2012 constant prices*

**APPENDIX 5: AVERAGE RURAL WHOLESALE PRICE FOR MAIZE, (GH¢/MT)**



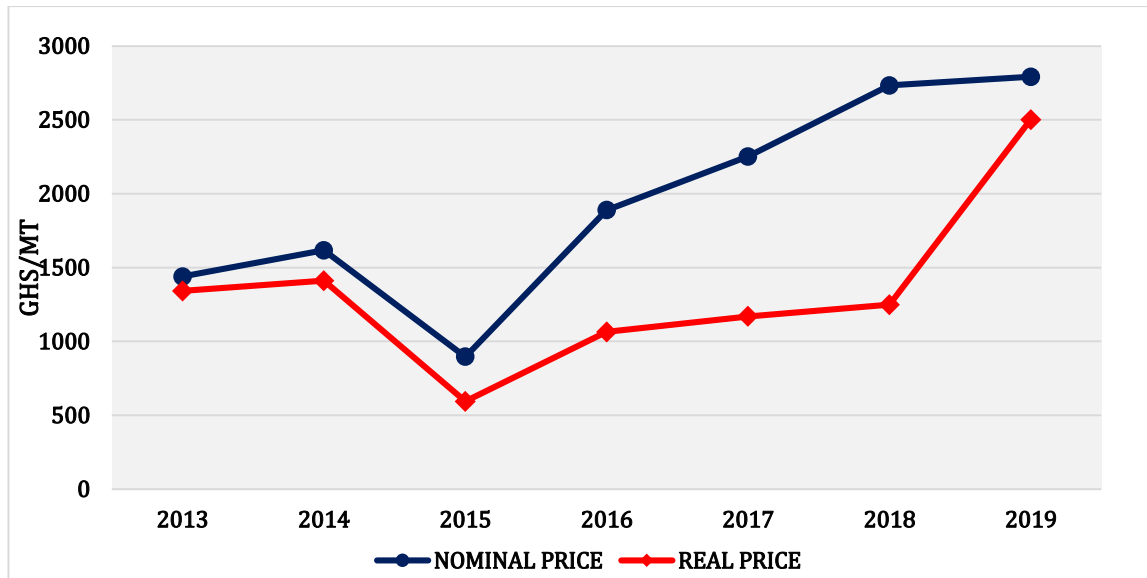
*A Rebased CPI with 2012 constant prices*

**APPENDIX 6: AVERAGE RURAL WHOLESALE PRICE FOR SORGHUM, (GH¢/MT)**



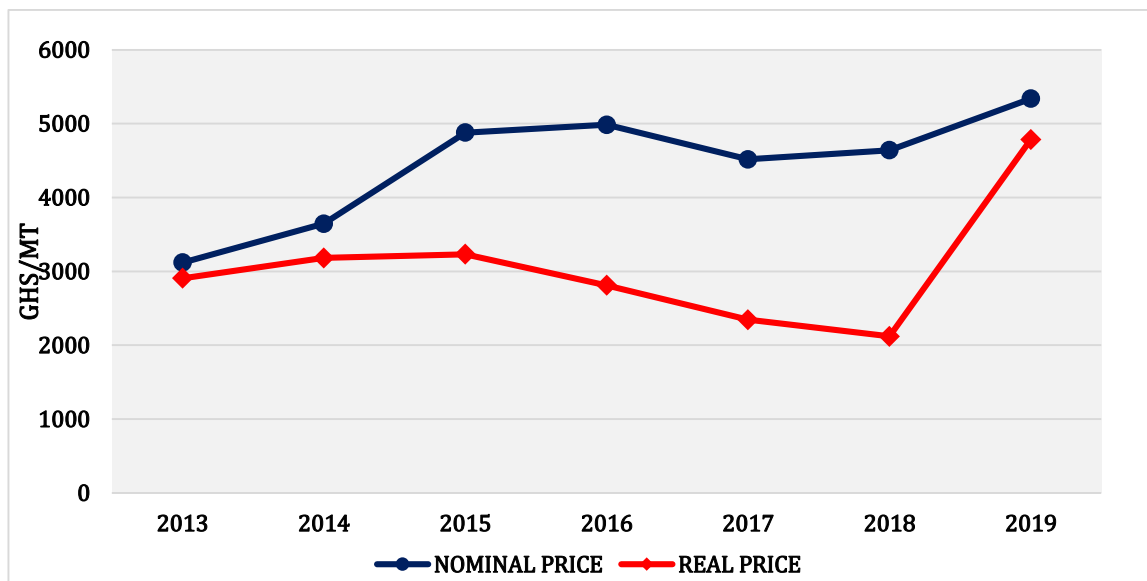
*A Rebased CPI with 2012 constant prices*

**APPENDIX 7: AVERAGE RURAL WHOLESALE PRICE FOR MILLET, (GH¢/MT)**



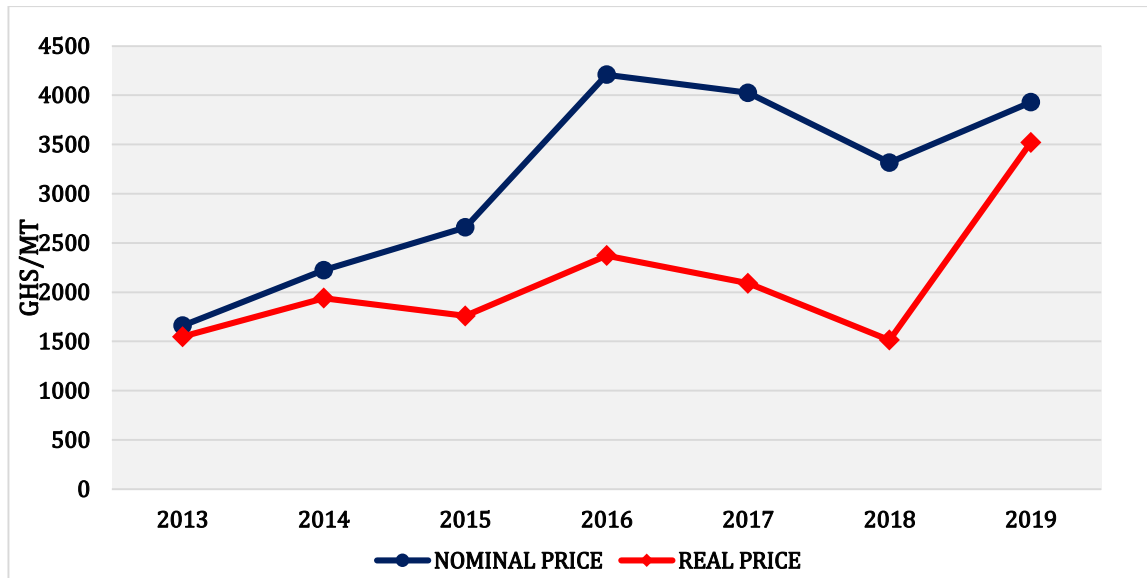
*A Rebased CPI with 2012 constant prices*

**APPENDIX 8: AVERAGE RURAL WHOLESALE PRICE FOR GROUNDNUT, (GH¢/MT)**



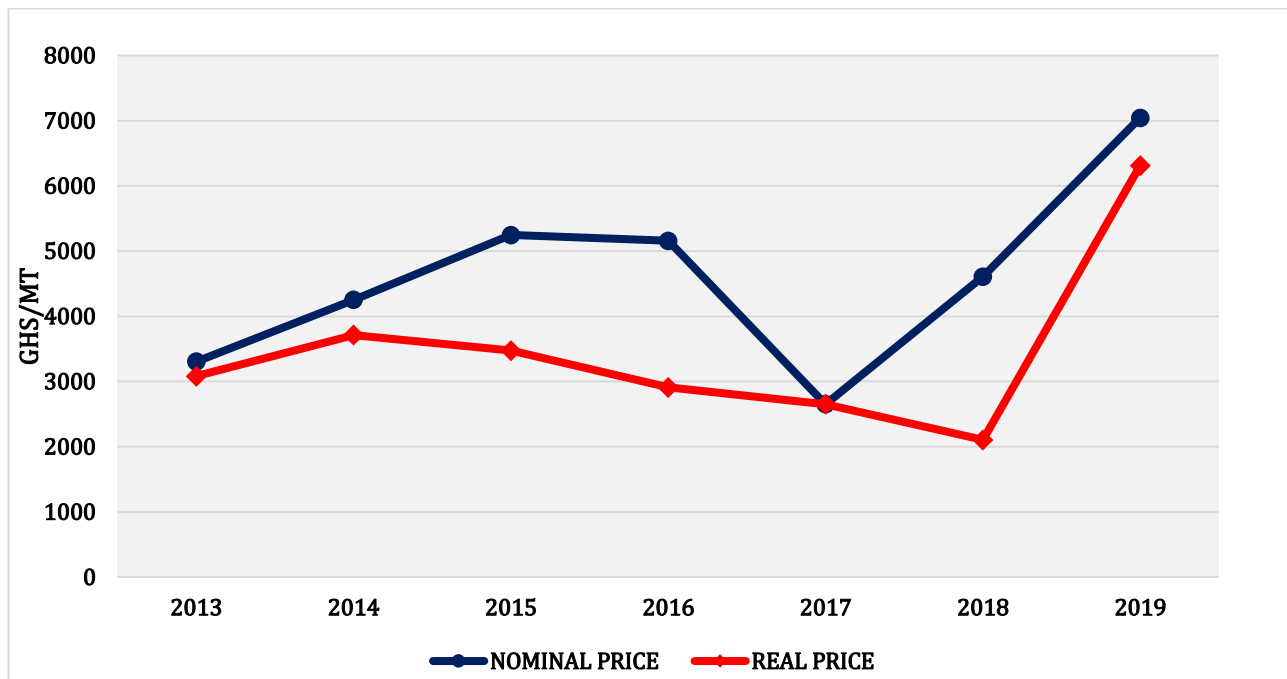
*A Rebased CPI with 2012 constant prices*

**APPENDIX 9: AVERAGE RURAL WHOLESALE PRICE FOR RICE (LOCAL), (GH¢/MT)**



*A Rebased CPI with 2012 constant prices*

**APPENDIX 10: AVERAGE RURAL WHOLESALE PRICE FOR TOMATOES, (GH¢/MT)**



*A Rebased CPI with 2012 constant prices*

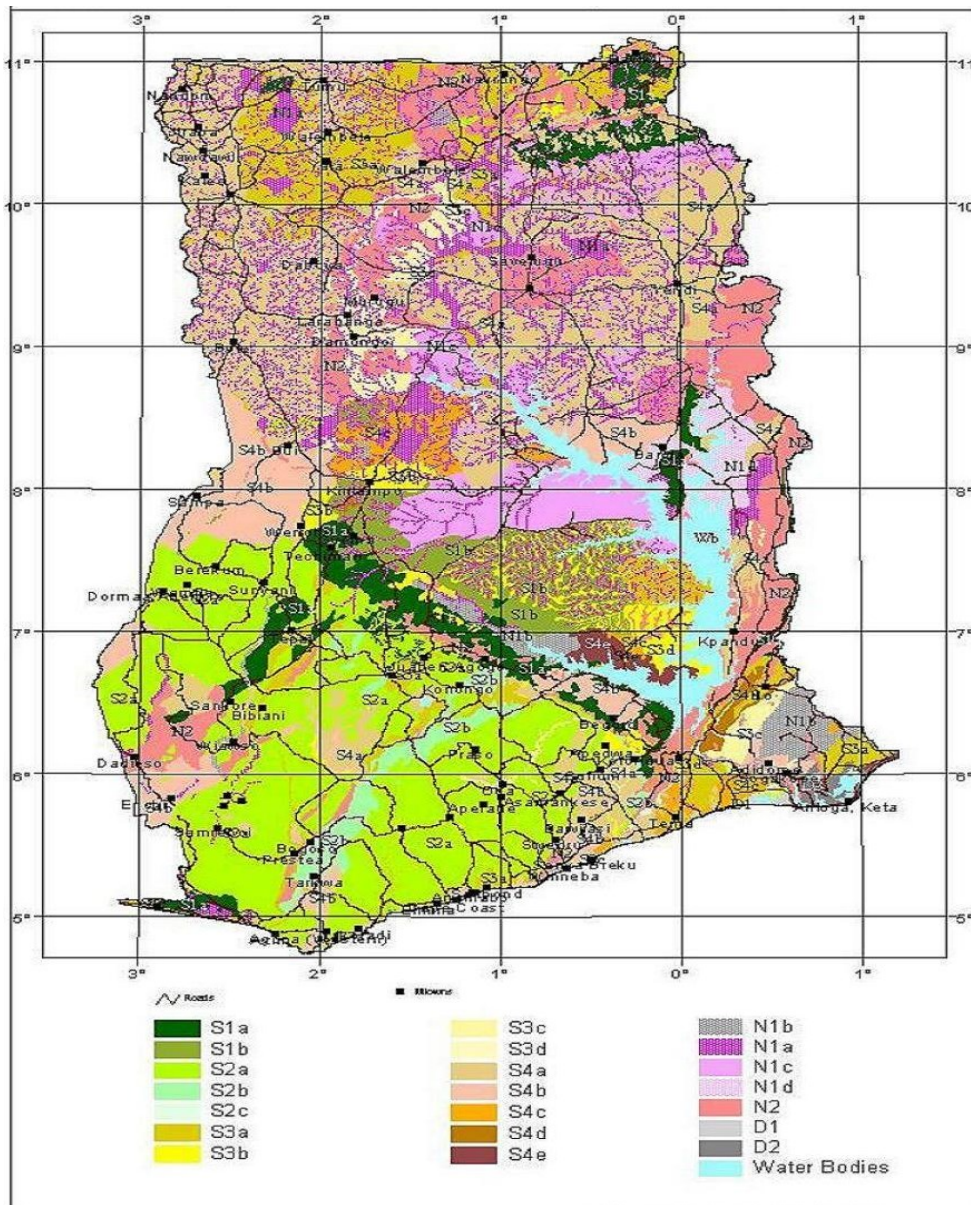


**APPENDIX 11: AGRO-ECOLOGICAL ZONES IN GHANA**



*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 indurated 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 (2010 – 2019)**

ITEM	QUANTITY (MT)									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
FISHMEAL	10,638.84	12,623.30	9,719.82	6,255.11	8,475.97	1,082.20	228.67	848.24	0.00	2,754.00
PREMIX	672.33	1,030.35	1,534.07	1,155.96	714.47	829.50	1,571.64	2,017.82	15,669.71	8,701.00
CONCENTRATE	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	111,325.70
SOYA BEAN	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	43,498.10
BREAD FLOUR	-	-	-	-	-	-	-	-	-	-
GROUNDNUT CAKE	-	174.00	-	-	-	-	-	-	-	132.00
COPRA CAKE	-	-	-	-	-	-	33,472.82	-	-	-
MAIZE(YELLOW)	-	-	759.45	-	-	-	-	8,496.44	150,196.00	-
DRIED DISTILLERS GRAIN	-	-	-	-	-	-	-	-	-	-
<b>TOTAL</b>	<b>20,685.27</b>	<b>36,267.52</b>	<b>35,455.92</b>	<b>31,905.89</b>	<b>53,459.84</b>	<b>48,273.14</b>	<b>83,130.63</b>	<b>69,966.87</b>	<b>558,758.23</b>	<b>166,411.00</b>

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	250	50	125
SHEEP	30	25	60	15
GOATS	30	22	60	13
PIGS	80	60	70	42
POULTRY	80	1.3	75	1

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: 2010-2019 ('000MT)**

<b>CROP</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
<b>MAIZE</b>	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	2,852.02
<b>RICE (PADDY)</b>	491.60	464.00	481.10	569.50	604.04	641.49	687.68	722.08	769.40	925.27
<b>MILLET</b>	219.00	184.00	179.70	155.10	155.32	157.37	159.02	163.48	181.56	230.42
<b>SORGHUM</b>	353.00	287.10	280.00	256.70	259.00	228.40	229.61	277.54	316.24	347.23
<b>CASSAVA</b>	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	22,750.38
<b>COCOYAM</b>	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	1,550.72
<b>YAM</b>	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	8,754.35
<b>PLANTAIN</b>	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	5,478.75
<b>GROUNDNUTS</b>	530.90	465.10	475.10	408.80	426.63	417.20	425.83	433.77	521.03	563.29
<b>OIL PALM</b>	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	
<b>COWPEA</b>	219.30	236.70	223.20	200.40	201.26	203.32	206.38	211.47	237.04	253.70
<b>SOYBEAN</b>	144.90	164.50	151.70	138.70	141.47	142.36	143.22	170.49	176.67	193.04

*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: 2010-2019 ('000 HA)**

<b>CROP</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
<b>MAIZE</b>	991.70	1,023.20	1,042.10	1,023.50	1,024.53	880.25	865.28	984.51	1,020.52	1,150.28
<b>RICE (PADDY)</b>	162.40	197.50	189.50	215.90	224.46	233.27	235.85	240.70	259.71	282.07
<b>MILLET</b>	176.70	178.70	172.50	160.70	162.35	162.24	136.92	155.66	141.64	147.92
<b>SORGHUM</b>	252.60	243.50	230.80	225.80	226.92	228.39	201.16	223.51	228.14	226.45
<b>CASSAVA</b>	875.00	889.40	868.50	875.20	888.61	916.54	879.10	916.84	977.34	1,021.25
<b>COCOYAM</b>	205.30	204.40	196.30	194.00	200.40	200.49	205.86	204.24	203.23	214.09
<b>YAM</b>	384.90	403.80	426.30	421.60	428.01	430.20	427.22	470.33	469.69	499.62
<b>PLANTAIN</b>	328.00	336.50	337.30	340.00	356.59	362.61	358.20	363.40	387.23	409.15
<b>G'NUTS</b>	333.40	356.80	345.20	328.90	334.53	336.45	327.38	316.31	319.68	336.85
<b>OIL PALM</b>	343.30	373.20	387.00	313.70	321.75	330.00	338.25	346.71	351.39	
<b>COWPEA</b>	167.00	182.30	168.80	162.00	165.83	162.65	146.66	153.91	156.79	169.48
<b>SOYABEAN</b>	76.20	85.90	85.20	84.80	86.87	86.27	86.88	102.60	102.98	112.47

Source: Statistics, Research, and Information Directorate (SRID)MOFA  
MRACLS/GAP

**APPENDIX 17: DOMESTIC MEAT PRODUCTION VS.IMPORTED MEAT (MT)**

	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>
<b>DOMESTIC MEAT PRODUCTION (DMP)</b>	143,603.00	150,751.00	157,810.00	164,124.00	168,291.00	175,769.00
<b>IMPORTS **</b>	144,694.00	161,394.20	132,059.20	189,708.20	241,872.00	177,334.00
<b>TOT MEAT AVAILABLE (IMPORTS +DOMESTIC PRODUCTION) *</b>	288,297.00	312,145.20	289,869.20	353,832.20	410,163.00	353,103.04
<b>SHARE DMP (%)</b>	<b>49.80</b>	<b>48.30</b>	<b>54.40</b>	<b>46.40</b>	<b>41.00</b>	<b>49.78</b>
<b>SHARE IMPORTS (%)</b>	<b>50.20</b>	<b>51.70</b>	<b>45.60</b>	<b>53.60</b>	<b>59.00</b>	<b>50.22</b>

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 (%)**

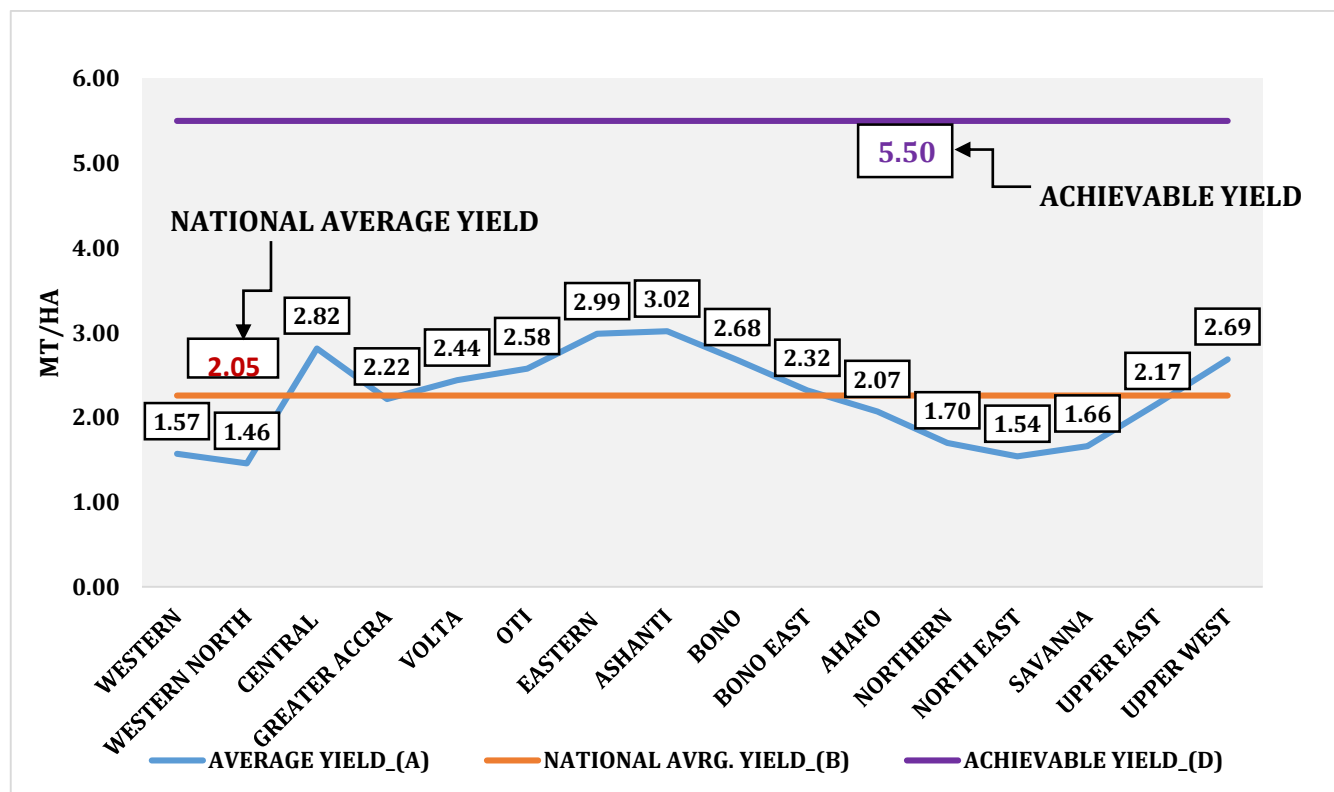
INDUSTRY	GHANA			URBAN			RURAL		
	MALE	FEMALE	BOTH SEXES	MALE	FEMALE	BOTH SEXES	MALE	FEMALE	BOTH SEXES
ALL	100.0	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
AGRICULTURE, FORESTRY AND FISHING	41.70	35.10	38.30	14.60	9.20	11.80	68.70	61.90	65.00
MINING AND QUARRYING	2.60	0.50	1.50	2.40	0.10	1.20	2.90	1.00	1.00
MANUFACTURING	7.40	16.10	11.90	10.50	20.70	15.80	4.40	11.30	7.00
ELECTRICITY, GAS, STREAM AND AIR CONDITIONING SUPPLY	0.30	0.10	0.20	0.40	0.10	0.20	0.20	0.10	0.00
WATER SUPPLY, SEWERAGE, WASTE MANAGEMENT	0.20	0.20	0.20	0.40	0.20	0.30	0.10	0.10	0.00
CONSTRUCTION	8.90	0.20	4.40	12.50	0.10	6.00	5.30	0.30	2.00
WHOLESALE AND RETAIL TRADE	12.60	29.40	21.30	21.10	42.80	32.40	4.20	15.60	10.00
TRANSPORTATION AND STORAGE	7.10	0.30	3.60	9.40	0.30	4.70	4.80	0.20	2.00
ACCOMMODATION AND FOOD SERVICE ACTIVITIES	0.80	5.40	3.20	1.30	7.10	4.30	0.40	3.60	2.00
INFORMATION AND COMMUNICATION	0.50	0.10	0.30	1.00	0.10	0.60	0.10	0.00	0.00
FINANCIAL AND INSURANCE ACTIVITIES	1.40	0.80	1.10	2.60	1.20	1.90	0.30	0.40	0.00
REAL ESTATE ACTIVITIES	0.30	0.00	0.20	0.60	0.00	0.30	0.00	0.00	0.00
PROFESSIONAL, SCIENTIFIC AND TECHNICAL ACTIVITIES	0.90	0.30	0.60	1.60	0.40	1.00	0.20	0.10	0.00
ADMINISTRATIVE AND SUPPORT SERVICE ACTIVITIES	0.80	0.30	0.60	1.30	0.50	0.90	0.40	0.10	0.00
PUBLIC ADMINISTRATION AND DEFENCE	2.50	1.10	1.80	4.10	2.00	3.00	0.80	0.20	0.00
EDUCATION	5.80	4.40	5.10	7.00	6.70	6.80	4.60	2.10	3.00
HUMAN HEALTH AND SOCIAL WORK ACTIVITIES	1.20	1.70	1.50	1.80	2.30	2.10	0.60	1.10	0.00
ARTS, ENTERTAINMENT AND RECREATION	1.30	0.20	0.70	2.10	0.30	1.10	0.50	0.00	0.00
OTHER SERVICE ACTIVITIES	3.20	3.20	3.20	5.10	4.80	4.90	1.50	1.60	1.00
ACTIVITIES OF HOUSEHOLDS AS EMPLOYERS	0.20	0.60	0.40	0.40	1.00	0.70	0.10	0.30	0.00
ACTIVITIES OF EXTRATERRITORIAL ORGANIZATIONS AND BODIES	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00

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

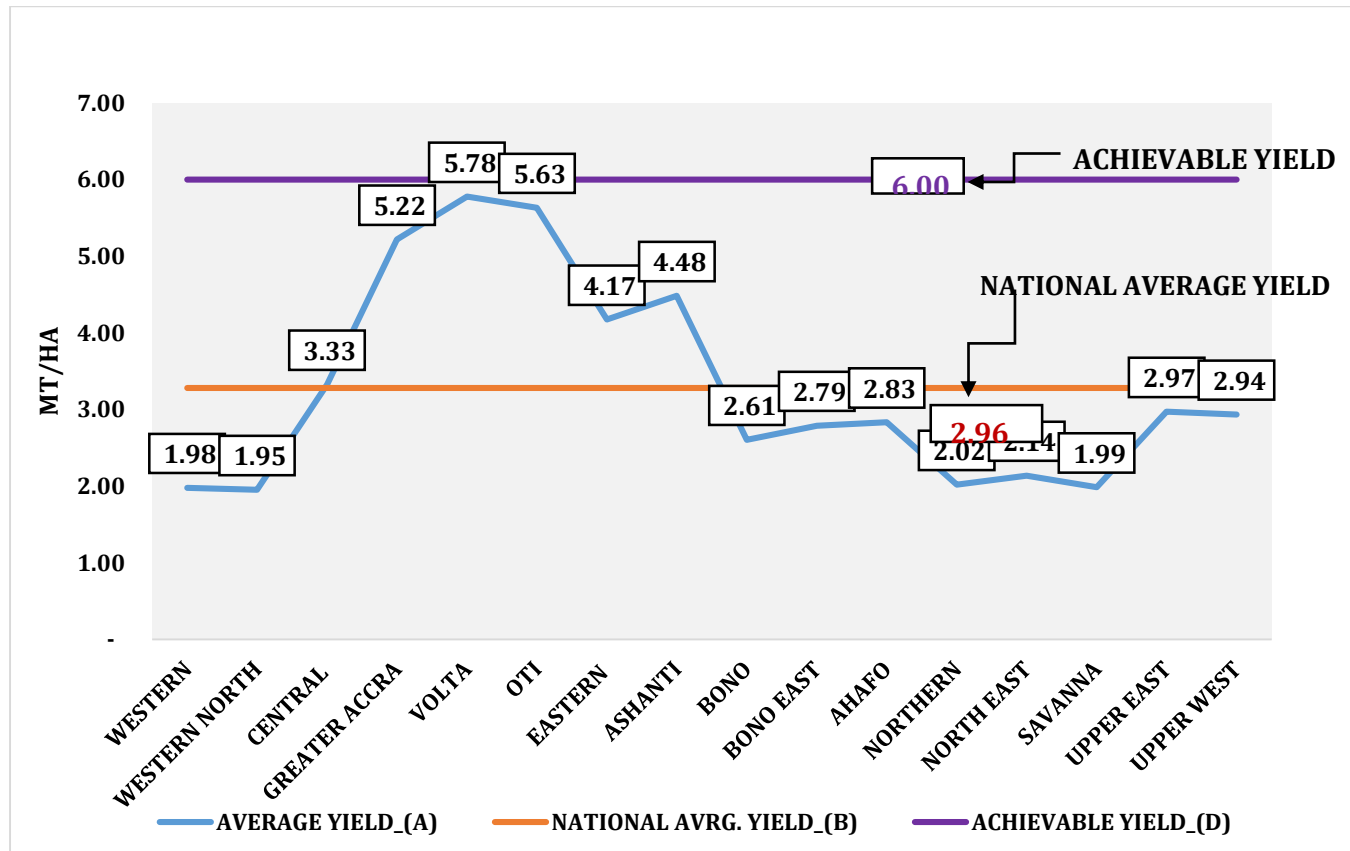
\*Industry: Refers to type of product produced, or service rendered at the respondent's place of work (irrespective of the occupation the person has).



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)**

	REGION	No.	DISTRICT	DIST. AVG (A)	N. AV (MT/HA) (B)	C = (A) AS % OF (B)	ACH_Y (D) (MT/HA)	E= (A) AS % OF (D)	
1	AHAFO	1	ASUNAFO NORTH	2.50	2.48	100.94	5.50	45.52	
2		2	ASUNAFO SOUTH	2.48	2.48	100.00	5.50	45.09	
3	ASHANTI	1	BEKWAI (AMANSIE EAST)	3.43	2.48	138.44	5.50	62.42	
4		2	AMANSIE WEST	3.28	2.48	132.26	5.50	59.64	
5		3	AMANSIE SOUTH	3.02	2.48	121.91	5.50	54.97	
6		4	ATWIMA MPONUA	2.88	2.48	115.99	5.50	52.30	
7		5	SEKYERE EAST	2.88	2.48	115.99	5.50	52.30	
8		6	EJURA SEKYEDUMASE	2.79	2.48	112.37	5.50	50.67	
9		8	ATWIMA NWABIAGYA	2.61	2.48	105.24	5.50	47.45	
10		8	ATWIMA NWABIAGYA NORTH	2.61	2.48	105.24	5.50	47.45	
11		9	SEKYERE CENTRAL	2.60	2.48	104.70	5.50	47.21	
12		11	SEKYERE AFRAM PLAINS	2.50	2.48	100.94	5.50	45.52	
13		11	SEKYERE KUMAWU	2.50	2.48	100.94	5.50	45.52	
14		12	ASANTE AKIM NORTH	2.49	2.48	100.54	5.50	45.33	
15		BONO	1	WENCHI MUNICIPAL	2.52	2.48	101.61	5.50	45.82
16		BONO EAST	1	TECHIMAN NORTH	2.61	2.48	105.11	5.50	47.39
17	2		TECHIMAN MUNICIPAL	2.53	2.48	102.02	5.50	46.00	
18	CENTRAL	1	GOMOA EAST	3.43	2.48	138.44	5.50	62.42	
19		2	TWIFO ATTI MORKWA	3.43	2.48	138.31	5.50	62.36	
20		3	TWIFO-HERMAN/L. DENKYIRA	3.40	2.48	136.96	5.50	61.76	
21		4	ABURA-ASEBU-KWAMANKESE	3.33	2.48	134.41	5.50	60.61	
22		5	GOMOA CENTRAL	3.09	2.48	124.60	5.50	56.18	
23		6	ASSIN SOUTH	3.02	2.48	121.64	5.50	54.85	
24		7	ASIKUMA-ODOBEN-BRAKWA	2.93	2.48	118.15	5.50	53.27	
25		9	EFFUTU (WINNEBA)	2.91	2.48	117.34	5.50	52.91	
26		9	AGONA EAST	2.91	2.48	117.34	5.50	52.91	
27		10	AWUTU-SENYA WEST	2.89	2.48	116.67	5.50	52.61	
28		11	AGONA WEST	2.89	2.48	116.53	5.50	52.55	

29		12	AWUTU-SENYA EAST	2.88	2.48	116.26	5.50	52.42
30		13	GOMOA WEST	2.65	2.48	106.99	5.50	48.24
31		14	UPPER DENKYIRA WEST	2.60	2.48	104.70	5.50	47.21
32		15	UPPER DENKYIRA EAST	2.59	2.48	104.57	5.50	47.15
33		16	EKUMFI	2.48	2.48	100.13	5.50	45.15
34	EASTERN	1	WEST AKIM	4.09	2.48	164.99	5.50	74.40
35		2	UPPER WEST AKIM	4.09	2.48	164.72	5.50	74.27
36		3	ACHIASE	3.84	2.48	154.65	5.50	69.73
37		4	BIRIM SOUTH	3.28	2.48	132.40	5.50	59.70
38		5	ASENE-MANSO-AKROSO	3.26	2.48	131.60	5.50	59.34
39		6	BIRIM CENTRAL	3.25	2.48	130.93	5.50	59.04
40		7	OKERE	3.23	2.48	130.11	5.50	58.67
41		8	AKUAPIM NORTH	3.15	2.48	127.02	5.50	57.27
42		9	ATIWA WEST	2.99	2.48	120.40	5.50	54.29
43		10	KWAHU AFRAM PLAINS SOUTH	2.98	2.48	120.00	5.50	54.11
44		11	ATIWA EAST	2.98	2.48	119.99	5.50	54.11
45		12	KWAHU AFRAM PLAINS NORTH	2.94	2.48	118.52	5.50	53.44
46		13	ABUAKWA SOUTH	2.90	2.48	116.93	5.50	52.72
47		14	AKUAPIM SOUTH	2.90	2.48	116.75	5.50	52.64
48		15	NSAWAM ADOAGYIRI	2.87	2.48	115.67	5.50	52.16
49		16	ABUAKWA NORTH	2.85	2.48	114.91	5.50	51.81
50		17	LOWER MANYA KROBO	2.77	2.48	111.83	5.50	50.42
51		18	AYENSUANO	2.76	2.48	111.46	5.50	50.26
52		19	UPPER MANYA KROBO	2.76	2.48	111.35	5.50	50.21
53		20	SUHUM KRABOA COALTAR	2.65	2.48	106.89	5.50	48.20
54		21	AKYEMANSA	2.49	2.48	100.54	5.50	45.33
55	NORTHERN	1	TOLON	2.50	2.48	100.81	5.50	45.45
56	OTI	1	BIAKOYE	2.57	2.48	103.76	5.50	46.79
57		2	JASIKAN	2.56	2.48	103.36	5.50	46.61
58		3	KADJEBI	2.53	2.48	101.88	5.50	45.94
59	SAVANNAH	1	WEST GONJA	2.57	2.48	103.49	5.50	46.67
60	UPPER WEST	1	SISSALA EAST	3.43	2.48	138.14	5.50	62.29

61		2	SISSALA WEST	2.86	2.48	115.40	5.50	52.04
62	VOLTA	1	HOHOE MUNICIPAL	2.79	2.48	112.37	5.50	50.67
63		2	AFADZATO SOUTH	2.74	2.48	110.35	5.50	49.76

**B. DISTRICTS WITH MAIZE YIELD PERFORMANCES BELOW (OR EQUAL TO) NATIONAL AVERAGE (MT/HA)**

	REGION	NO.	DISTRICT	DIST. AVG (A)	N. AV (MT/HA) (B)	C = (A) AS % OF (B)	ACH_Y (D) (MT/HA)	E= (A) AS % OF (D)
1	AHAFO	3	ASUTIFI SOUTH	1.93	2.48	77.82	5.50	35.09
2		4	TANO SOUTH	1.91	2.48	76.88	5.50	34.67
3		5	ASUTIFI NORTH	1.89	2.48	76.08	5.50	34.30
4		6	TANO NORTH	1.88	2.48	75.81	5.50	34.18
5	ASHANTI	14	OBUASI EAST	2.47	2.48	99.46	5.50	44.85
6		14	OBUASI (ADANSI WEST)	2.47	2.48	99.46	5.50	44.85
7		14	AKROFUOM	2.47	2.48	99.46	5.50	44.85
8		17	AFIGYA KWABRE	2.45	2.48	98.92	5.50	44.61
9		17	AFIGYA KWABRE NORTH	2.45	2.48	98.92	5.50	44.61
10		18	OFFINSO	2.45	2.48	98.79	5.50	44.55
11		19	MAMPONG (SEKYERE WEST)	2.43	2.48	97.98	5.50	44.18
12		20	OFFINSO NORTH	2.42	2.48	97.45	5.50	43.94
13		21	BOSUMTWE	2.35	2.48	94.62	5.50	42.67
14		22	AHAFO ANO NORTH	2.31	2.48	93.01	5.50	41.94
15		23	KWABRE EAST	2.30	2.48	92.61	5.50	41.76
16		25	EJUSU	2.28	2.48	91.80	5.50	41.39
17		25	JUABEN	2.28	2.48	91.80	5.50	41.39
18		25	OFORIKROM	2.28	2.48	91.80	5.50	41.39
19		28	AHAFO ANO SOUTH EAST	2.27	2.48	91.67	5.50	41.33
20		28	AHAFO ANO SOUTH WEST	2.27	2.48	91.67	5.50	41.33
21		29	SEKYERE SOUTH	2.27	2.48	91.40	5.50	41.21
22		30	BOSOME FREHO	2.22	2.48	89.52	5.50	40.36
23		31	ASOKORE MAMPONG	2.17	2.48	87.50	5.50	39.45
24		33	ADANSI NORTH	2.15	2.48	86.83	5.50	39.15

25		33	ADANSI ASOKWA	2.15	2.48	86.83	5.50	39.15
26		34	ATWIMA KWANWOMA	2.09	2.48	84.27	5.50	38.00
27		35	ADANSI SOUTH (EAST)	2.04	2.48	82.39	5.50	37.15
28		36	ASANTE AKIM CENTRAL	2.04	2.48	82.26	5.50	37.09
29		37	ASANTE AKIM SOUTH	2.03	2.48	81.99	5.50	36.97
30		40	K. M. A.	2.00	2.48	80.65	5.50	36.36
31		40	KWADASO	2.00	2.48	80.65	5.50	36.36
32		40	OLD TAFO	2.00	2.48	80.65	5.50	36.36
33		40	ASOKWA	2.00	2.48	80.65	5.50	36.36
34		40	SUAME	2.00	2.48	80.65	5.50	36.36
35		43	AMANSIE CENTRAL	1.61	2.48	65.05	5.50	29.33
36	BONO	2	TAIN	2.42	2.48	97.45	5.50	43.94
37		3	DORMAA EAST	2.29	2.48	92.47	5.50	41.70
38		5	PRU EAST	2.27	2.48	91.40	5.50	41.21
39		5	PRU WEST	2.27	2.48	91.40	5.50	41.21
40		6	DORMAA WEST	2.24	2.48	90.19	5.50	40.67
41		7	ATEBUBU -AMANTIN	2.22	2.48	89.65	5.50	40.42
42		8	KINTAMPO NORTH	2.21	2.48	89.25	5.50	40.24
43		9	KINTAMPO SOUTH	2.21	2.48	89.11	5.50	40.18
44		10	DORMAA MUNICIPAL	2.19	2.48	88.44	5.50	39.88
45		11	BANDA	2.18	2.48	88.04	5.50	39.70
46		12	JAMAN NORTH	2.15	2.48	86.69	5.50	39.09
47		13	JAMAN SOUTH	2.14	2.48	86.16	5.50	38.85
48		14	SUNYANI WEST	2.13	2.48	85.89	5.50	38.73
49		16	BEREKUM MUNICIPAL	2.09	2.48	84.14	5.50	37.94
50		16	BEREKUM WEST	2.09	2.48	84.14	5.50	37.94
51		17	SUNYANI MUNICIPAL	1.98	2.48	79.97	5.50	36.06
52	BONO EAST	3	NKORANZA SOUTH	2.05	2.48	82.53	5.50	37.21
53		4	SENE EAST	2.00	2.48	80.51	5.50	36.30
54		5	SENE WEST	1.92	2.48	77.55	5.50	34.97
55		6	NKORANZA NORTH	1.92	2.48	77.55	5.50	34.97
56	CENTRAL	17	MFANTSIMAN	2.46	2.48	99.06	5.50	44.67

57		18	ASSIN CENTRAL	2.22	2.48	89.65	5.50	40.42
58		19	ASSIN NORTH	2.22	2.48	89.38	5.50	40.30
59		20	KOMENDA-EDINA-EGUAFO- ABIREM	2.10	2.48	84.68	5.50	38.18
60		21	CAPE COAST	2.03	2.48	81.99	5.50	36.97
61		22	AJUMAKO-ENYAN-ESIAM	2.00	2.48	80.65	5.50	36.36
62	EASTERN	23	YILO KROBO	2.47	2.48	99.73	5.50	44.97
63		23	BIRIM NORTH	2.47	2.48	99.73	5.50	44.97
64		24	ASUOGYAMAN	2.46	2.48	99.33	5.50	44.79
65		25	FANTEAKWA SOUTH	2.42	2.48	97.61	5.50	44.01
66		26	FANTEAKWA NORTH	2.39	2.48	96.53	5.50	43.53
67		30	NEW JUABEN	1.92	2.48	77.42	5.50	34.91
68		30	NEW JUABEN NORTH	1.92	2.48	77.42	5.50	34.91
69		30	DENKYEMBOUR	1.92	2.48	77.42	5.50	34.91
70		30	KWAEBIBIREM	1.92	2.48	77.42	5.50	34.91
71		30	KWAHU WEST	1.92	2.48	77.42	5.50	34.91
72		30	KWAHU SOUTH	1.92	2.48	77.42	5.50	34.91
73		30	KWAHU EAST	1.92	2.48	77.42	5.50	34.91
74	GREATER ACCRA	1	SHAI-OSUDOKU	2.12	2.48	85.35	5.50	38.48
75		2	NINGO-PRAMPAM	1.93	2.48	77.96	5.50	35.15
76		3.5	GA EAST	1.83	2.48	73.92	5.50	33.33
77		3.5	LA NKWANTANANG-MADINA	1.83	2.48	73.92	5.50	33.33
78		5	LEDZOKUKU	1.72	2.48	69.22	5.50	31.21
79		6	ASHAIMAN	1.70	2.48	68.68	5.50	30.97
80		7	KORLE KLOTTEY	1.70	2.48	68.55	5.50	30.91
81		8.5	GA SOUTH	1.68	2.48	67.88	5.50	30.61
82		8.5	WEIJA-GBAWE	1.68	2.48	67.88	5.50	30.61
83		10	KPONE KATAMANSO	1.64	2.48	66.26	5.50	29.88
84		12	ABLEKUMA NORTH	1.62	2.48	65.19	5.50	29.39
85		12	ABLEKUMA CENTRAL	1.62	2.48	65.19	5.50	29.39
86		12	AYAWASO EAST	1.62	2.48	65.19	5.50	29.39
87		14	GA WEST	1.60	2.48	64.52	5.50	29.09

88		15.5	LA DADE-KOTOPON	1.58	2.48	63.84	5.50	28.79
89		15.5	OKAIKOI NORTH	1.58	2.48	63.84	5.50	28.79
90		17	GA NORTH	1.57	2.48	63.17	5.50	28.48
91		18	ABLEKUMA WEST	1.55	2.48	62.50	5.50	28.18
92		19.5	ADA WEST	1.52	2.48	61.16	5.50	27.58
93		19.5	AYAWASO WEST	1.52	2.48	61.16	5.50	27.58
94		21	TEMA	1.51	2.48	60.89	5.50	27.45
95		22	TEMA WEST	1.48	2.48	59.54	5.50	26.85
96		23	GA CENTRAL	1.47	2.48	59.14	5.50	26.67
97		24	ADA EAST	1.36	2.48	54.97	5.50	24.79
98		25	ADENTAN	1.27	2.48	51.08	5.50	23.03
99		26.5	A.M.A	0.95	2.48	38.31	5.50	17.27
100		26.5	AYAWASO NORTH	0.95	2.48	38.31	5.50	17.27
101	NORTH EAST	1.5	CHEREPONI	2.00	2.48	80.65	5.50	36.36
102		1.5	WEST MAMPRUSI	2.00	2.48	80.65	5.50	36.36
103		3	MAMPRUGU MOAGDURI	1.67	2.48	67.20	5.50	30.30
104		4.5	BUNKPURUGU/YUNYOO	1.20	2.48	48.39	5.50	21.82
105		4.5	YUNYOO-NASUAN	1.20	2.48	48.39	5.50	21.82
106		6	EAST MAMPRUSI	1.03	2.48	41.67	5.50	18.79
107	NORTHERN	2.5	SAVELUGU	2.20	2.48	88.71	5.50	40.00
108		2.5	NANTON	2.20	2.48	88.71	5.50	40.00
109		4	NANUMBA NORTH	1.93	2.48	77.96	5.50	35.15
110		5	TAMALE METRO	1.80	2.48	72.58	5.50	32.73
111		6	YENDI	1.77	2.48	71.24	5.50	32.12
112		7	ZABZUGU	1.51	2.48	61.02	5.50	27.52
113		8	SABOBA	1.48	2.48	59.81	5.50	26.97
114		9.5	SAGNERIGU	1.47	2.48	59.14	5.50	26.67
115		9.5	MION	1.47	2.48	59.14	5.50	26.67
116		11	GUSHIEGU	1.46	2.48	58.74	5.50	26.48
117		12	KARAGA	1.41	2.48	56.99	5.50	25.70
118		13	KUMBUNGU	1.37	2.48	55.11	5.50	24.85
119		15	KPANDAI	1.30	2.48	52.42	5.50	23.64
120		15	NANUMBA SOUTH	1.30	2.48	52.42	5.50	23.64



121		15	TATALE SANGULI	1.30	2.48	52.42	5.50	23.64
122	OTI	4	NKWANTA NORTH	2.31	2.48	93.15	5.50	42.00
123		5	KRACHI WEST	2.13	2.48	85.75	5.50	38.67
124		6	NKWANTA SOUTH	2.07	2.48	83.33	5.50	37.58
125		7	KRACHI EAST	1.94	2.48	78.36	5.50	35.33
126		8	KRACHI NCHUMURU	1.90	2.48	76.75	5.50	34.61
127	UPPER EAST	2	GARU	2.33	2.48	94.09	5.50	42.42
128		2	TEMPANE	2.33	2.48	94.09	5.50	42.42
129		3	TALENSI	2.10	2.48	84.68	5.50	38.18
130		4	BUILSA NORTH	2.03	2.48	81.99	5.50	36.97
131		6	BOLGATANGA MUNICIPAL	2.00	2.48	80.65	5.50	36.36
132		6	BOLGATANGA EAST	2.00	2.48	80.65	5.50	36.36
133		6	BAWKU MUNICIPAL	2.00	2.48	80.65	5.50	36.36
134		8	PUSIGA	1.97	2.48	79.30	5.50	35.76
135		9	BONGO	1.93	2.48	77.96	5.50	35.15
136		10	KASSENA NANKANA WEST	1.90	2.48	76.61	5.50	34.55
137		11	BINDURI	1.80	2.48	72.58	5.50	32.73
138		12	BUILSA SOUTH	1.63	2.48	65.86	5.50	29.70
139		13	BAWKU WEST	1.53	2.48	61.83	5.50	27.88
140		14	NABDAM	1.47	2.48	59.14	5.50	26.67
141		15	KASSENA NANKANA MUNICIPAL	1.43	2.48	57.80	5.50	26.06
142	UPPER WEST	3	WA EAST	2.26	2.48	90.95	5.50	41.01
143		4	WA MUNICIPAL	2.24	2.48	90.23	5.50	40.69
144		5	JIRAPA	2.09	2.48	84.21	5.50	37.97
145		6	WA WEST	2.07	2.48	83.53	5.50	37.66
146		7	DAFIAMA-BUSSIE-ISSA	2.03	2.48	81.79	5.50	36.88
147		8	LAWRA	1.92	2.48	77.26	5.50	34.84
148		9	NADOWLI	1.74	2.48	70.05	5.50	31.59
149		10	NANDOM	1.73	2.48	69.86	5.50	31.50
150		11	LAMBUSSIE-KARNI	1.56	2.48	63.05	5.50	28.43
151		VOLTA	3	KPANDO MUNICIPAL	2.40	2.48	96.77	5.50
152	4		KETU NORTH	2.37	2.48	95.56	5.50	43.09

153		5	NORTH DAYI	2.35	2.48	94.76	5.50	42.73
154		6	SOUTH DAYI	2.24	2.48	90.32	5.50	40.73
155		7	AGORTIME-ZIOPE	2.21	2.48	89.25	5.50	40.24
156		8	AKATSI SOUTH	2.01	2.48	80.91	5.50	36.48
157		9	HO MUNICIPAL	2.00	2.48	80.65	5.50	36.36
158		10	ADAKLU	2.00	2.48	80.51	5.50	36.30
159		11	AKATSI NORTH	1.99	2.48	80.11	5.50	36.12
160		12	HO WEST	1.97	2.48	79.57	5.50	35.88
161		13	CENTRAL TONGU	1.81	2.48	72.85	5.50	32.85
162		14	NORTH TONGU	1.78	2.48	71.64	5.50	32.30
163		15	SOUTH TONGU	1.73	2.48	69.76	5.50	31.45
164		16	KETU SOUTH	1.57	2.48	63.31	5.50	28.55
165		17	KETA MUNICIPAL	1.45	2.48	58.33	5.50	26.30
166		18	ANLOGA	1.39	2.48	56.18	5.50	25.33
167	WESTERN	2	MPORHOR	1.62	2.48	65.19	5.50	29.39
168		2	WASSA EAST	1.62	2.48	65.19	5.50	29.39
169		3	AMENFI WEST	1.51	2.48	60.89	5.50	27.45
170		4	AMENFI CENTRAL	1.48	2.48	59.68	5.50	26.91
171		5	AMENFI EAST	1.46	2.48	58.74	5.50	26.48
172		6	JOMORO	1.42	2.48	57.39	5.50	25.88
173		7	TARKWA NSUAEM	1.40	2.48	56.32	5.50	25.39
174		8	PRESTEA HUNI-VALLEY	1.38	2.48	55.51	5.50	25.03
175		9	ELLEMBELE	1.35	2.48	54.30	5.50	24.48
176		10	NZEMA EAST	1.34	2.48	53.90	5.50	24.30
177		12	SEKONDI-TAKORADI	1.32	2.48	53.09	5.50	23.94
178		12	EFFIA KWESIMINTSIM	1.32	2.48	53.09	5.50	23.94
179		14	AHANTA WEST	1.31	2.48	52.69	5.50	23.76
180		14	SHAMA	1.31	2.48	52.69	5.50	23.76
181	WESTERN NORTH	1	BIA EAST	1.76	2.48	71.10	5.50	32.06
182		2	BIA WEST	1.75	2.48	70.43	5.50	31.76
183		3	SEFWI-WIAWSO	1.60	2.48	64.52	5.50	29.09
184		4	BODI	1.51	2.48	60.89	5.50	27.45

185		5	JUABESO	1.49	2.48	60.08	5.50	27.09
186		6	AOWIN	1.41	2.48	56.72	5.50	25.58
187		7	SUAMAN	1.40	2.48	56.39	5.50	25.43
188		8	AKONTOMBRA	1.34	2.48	54.17	5.50	24.42
189		9	BIBIANI-ANHWIASO-BEKWAI	1.33	2.48	53.43	5.50	24.09

## APPENDIX 22: YIELD PERFORMANCE SUMMARY (MAIZE)

NAV = National Average

ACH\_Y = Achievable (Potential) Yields

	NUMBER	SHARE (%)
<b>TOTAL NUMBER OF DISTRICTS</b>	<b>252</b>	<b>100</b>
<b>DISTRICTS WITH YIELDS ABOVE NATIONAL AVERAGE</b>	62	24.6
<b>DISTRICTS WITH YIELDS EQUAL TO NATIONAL AVERAGE</b>	1	0.4
<b>DISTRICTS WITH YIELDS BELOW NATIONAL AVERAGE</b>	189	75.0

## NOTES

From the table above, the average yields of maize (3-year average) for 24.6 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 164.99 percent of national average and 74.40 percent of potential yields. On the other hand, 75 per cent of districts 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 0.4 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)	N. AV (MT/HA) (B)	C = (A) AS % OF (B)	ACH_Y (D) (MT/HA)	E= (A) A
1	ASHANTI	2	AHAFO ANO SOUTH EAST	4.85	3.28	147.87	6.00	
2		2	AHAFO ANO SOUTH WEST	4.85	3.28	147.87	6.00	
3		3	AHAFO ANO NORTH	4.55	3.28	138.82	6.00	
4		5	EJISU	4.51	3.28	137.60	6.00	
5		5	JUABEN	4.51	3.28	137.60	6.00	
6		7	ATWIMA NWABIAGYA	4.16	3.28	126.73	6.00	
7		7	ATWIMA NWABIAGYA NORTH	4.16	3.28	126.73	6.00	
8		8	BOSOME FREHO	3.85	3.28	117.38	6.00	
9		9	OFORIKROM	3.79	3.28	115.65	6.00	
10		10	AKUOFROM	3.70	3.28	112.80	6.00	
11		12	ATWIMA MPONUA	3.68	3.28	112.20	6.00	
12		12	ASANTE AKIM NORTH	3.68	3.28	112.20	6.00	
13		14	AFIGYA KWABRE	3.66	3.28	111.69	6.00	
14		14	AFIGYA KWABRE NORTH	3.66	3.28	111.69	6.00	
15		15	EJURA SEKYEDUMASE	3.58	3.28	109.25	6.00	
16		16	AMANSIE CENTRAL	3.55	3.28	108.23	6.00	
17		17	BEKWAI (AMANSIE EAST)	3.54	3.28	107.93	6.00	

18		18	OFFINSO	3.54	3.28	107.83	6.00
19		20	SEKYERE AFRAM PLAINS	3.51	3.28	106.91	6.00
20		20	SEKYERE SOUTH	3.51	3.28	106.91	6.00
21		20	SEKYERE KUMAWU	3.51	3.28	106.91	6.00
22		22	ATWIMA KWANWOMA	3.49	3.28	106.30	6.00
23		23	MAMPONG (SEKYERE WEST)	3.48	3.28	106.20	6.00
24		24	BOSUMTWE	3.46	3.28	105.59	6.00
25		25	ASANTE AKIM CENTRAL	3.46	3.28	105.49	6.00
26		26	ASANTE AKIM SOUTH	3.45	3.28	105.08	6.00
27		27	OFFINSO NORTH	3.41	3.28	104.07	6.00
28		29	ADANSI NORTH	3.41	3.28	103.86	6.00
29		29	ADANSI ASOKWA	3.41	3.28	103.86	6.00
30		30	SEKYERE CENTRAL	3.33	3.28	101.63	6.00
31		31	ADANSI SOUTH (EAST)	3.29	3.28	100.20	6.00
32		32	K. M. A.	3.28	3.28	100.00	6.00
33	CENTRAL	1	ASSIN SOUTH	3.33	3.28	101.63	6.00
34	EASTERN	1	AKYEMANSA	4.49	3.28	137.00	6.00
35		2	BIRIM NORTH	4.47	3.28	136.39	6.00
36		3	ASENE-MANSO-AKROSO	4.16	3.28	126.93	6.00
37		4	BIRIM CENTRAL	4.04	3.28	123.27	6.00

38		5	<b>BIRIM SOUTH</b>	3.94	3.28	120.20	6.00
39		6	<b>DENKYEMBOUR</b>	3.94	3.28	120.18	6.00
40		7	<b>LOWER MANYA KROBO</b>	3.90	3.28	118.80	6.00
41		8	<b>KWAEBIBIREM</b>	3.86	3.28	117.81	6.00
42		9	<b>KWAHU WEST</b>	3.84	3.28	117.17	6.00
43		10	<b>ATIWA WEST</b>	3.75	3.28	114.38	6.00
44		11	<b>ATIWA EAST</b>	3.73	3.28	113.87	6.00
45		12	<b>UPPER MANYA KROBO</b>	3.69	3.28	112.60	6.00
46		13	<b>ACHIASE</b>	3.55	3.28	108.09	6.00
47		14	<b>FANTEAKWA SOUTH</b>	3.48	3.28	106.09	6.00
48		15	<b>WEST AKIM</b>	3.41	3.28	103.85	6.00
49		16	<b>UPPERWEST AKIM</b>	3.35	3.28	102.20	6.00
50	<b>GREATER ACCRA</b>	1	<b>ASHAIMAN</b>	5.73	3.28	174.80	6.00
51		2	<b>NINGO-PRAMPRAM</b>	3.53	3.28	107.72	6.00
52		3	<b>SHAI-OSUDOKU</b>	3.37	3.28	102.64	6.00
53	<b>OTI</b>	1	<b>JASIKAN</b>	5.89	3.28	179.67	6.00
54		2	<b>KADJEBI</b>	5.22	3.28	159.15	6.00
55		3	<b>NKWANTA SOUTH</b>	5.14	3.28	156.81	6.00
56		4	<b>BLAKOYE</b>	5.11	3.28	155.89	6.00
57		5	<b>NKWANTA NORTH</b>	4.85	3.28	147.76	6.00

58		6	KRACHI WEST	4.79	3.28	146.14	6.00
59		7	KRACHI EAST	4.76	3.28	145.02	6.00
60		8	KRACHI NCHUMURU	4.37	3.28	133.13	6.00
61	UPPER EAST	1	KASSENA NANKANA MUNICIPAL	3.96	3.28	120.63	6.00
62		2	TALENSI	3.40	3.28	103.66	6.00
63	VOLTA	1	KETU NORTH	6.24	3.28	190.24	6.00
64		2	HOHOE MUNICIPAL	5.98	3.28	182.22	6.00
65		3	SOUTH TONGU	5.79	3.28	176.63	6.00
66		4	ANLOGA	5.28	3.28	161.08	6.00
67		5	NORTH TONGU	5.27	3.28	160.77	6.00
68		6	AFADZATO SOUTH	5.01	3.28	152.64	6.00
69		7	KPANDO MUNICIPAL	5.00	3.28	152.34	6.00
70		8	CENTRAL TONGU	4.72	3.28	143.80	6.00
71		9	NORTH DAYI	4.65	3.28	141.67	6.00
72		10	HO WEST	4.54	3.28	138.41	6.00
73		11	ADAKLU	4.51	3.28	137.50	6.00
74		12	HO MUNICIPAL	4.51	3.28	137.40	6.00
75		13	KETU SOUTH	4.34	3.28	132.42	6.00
76		14	AKATSI NORTH	4.15	3.28	126.52	6.00
77		15	AGORTIME-ZIOPE	3.82	3.28	116.57	6.00

78		16	<b>AKATSI SOUTH</b>	3.74	3.28	114.02	6.00
79		17	<b>SOUTH DAYI</b>	3.29	3.28	100.20	6.00



**B. DISTRICTS WITH RICE YIELD PERFORMANCES BELOW NATIONAL AVERAGE (MT/HA)**

	REGION	NO.	DISTRICT	DIST. AVG (A)	N. AV(MT/HA) (B)	C = (A) AS % OF (B)	ACH_Y (D) (MT/HA)	E= (A) AS %
1	AHAFO	1	TANO NORTH	2.44	3.28	74.49	6.00	
2		2	TANO SOUTH	2.41	3.28	73.37	6.00	
3		3	ASUNAFO NORTH	2.05	3.28	62.40	6.00	
4		4.5	ASUTIFI NORTH	2.00	3.28	60.98	6.00	
5		4.5	ASUTIFI SOUTH	2.00	3.28	60.98	6.00	
6		6	ASUNAFO SOUTH	1.88	3.28	57.42	6.00	
7	ASHANTI	34	OBUASI EAST	3.24	3.28	98.88	6.00	
8		34	OBUASI (ADANSI WEST)	3.24	3.28	98.88	6.00	
9		35	AMANSIE SOUTH	3.23	3.28	98.37	6.00	
10		36	KWABRE EAST	3.20	3.28	97.66	6.00	
11		37	ASOKORE MAMPONG	3.16	3.28	96.44	6.00	
12		40	KWADASO	3.08	3.28	94.00	6.00	
13		40	OLD TAFO	3.08	3.28	94.00	6.00	
14		40	ASOKWA	3.08	3.28	94.00	6.00	
15		40	SUAME	3.08	3.28	94.00	6.00	
16		43	AMANSIE WEST	2.93	3.28	89.33	6.00	
17		43	SEKYERE EAST	2.93	3.28	89.33	6.00	
18	BONO	1	DORMAA WEST	2.00	3.28	60.98	6.00	
19		2	DORMAA MUNICIPAL	1.75	3.28	53.35	6.00	
20		3	WENCHI MUNICIPAL	1.57	3.28	47.76	6.00	
21		4	BEREKUM WEST	1.50	3.28	45.73	6.00	
22		5	JAMAN SOUTH	1.43	3.28	43.70	6.00	
23		7	TAIN	1.43	3.28	43.70	6.00	
24		7	BANDA	1.43	3.28	43.70	6.00	
25		9	BEREKUM MUNICIPAL	1.37	3.28	41.67	6.00	
26		9	JAMAN NORTH	1.37	3.28	41.67	6.00	
27		10	SUNYANI WEST	0.90	3.28	27.44	6.00	
28		11	SUNYANI MUNICIPAL	0.83	3.28	25.41	6.00	
29	BONO EAST	1	ATEBUBU -AMANTIN	2.28	3.28	69.41	6.00	
30		2	SENE WEST	2.17	3.28	66.26	6.00	
31		3	SENE EAST	2.17	3.28	66.06	6.00	
32		4	KINTAMPO NORTH	1.96	3.28	59.86	6.00	
33		5	PRU EAST	1.94	3.28	59.15	6.00	
34		6	PRU WEST	1.89	3.28	57.62	6.00	
35		7	NKORANZA NORTH	1.41	3.28	42.99	6.00	
36		9	NKORANZA SOUTH	1.40	3.28	42.68	6.00	

37		9	TECHIMAN NORTH	1.40	3.28	42.68	6.00
38		10	TECHIMAN MUNICIPAL	1.30	3.28	39.63	6.00
39	CENTRAL	2	GOMOA EAST	3.10	3.28	94.51	6.00
40		3	TWIFO ATTI MORKWA	2.50	3.28	76.22	6.00
41		4	UPPER DENKYIRA EAST	2.25	3.28	68.50	6.00
42		6	ASSIN NORTH	2.23	3.28	68.09	6.00
43		6	ASSIN CENTRAL	2.23	3.28	68.09	6.00
44		7	UPPER DENKYIRA WEST	2.11	3.28	64.23	6.00
45		8	TWIFO-HERMAN/L. DENKYIRA	1.80	3.28	54.88	6.00
46		9	AGONA EAST	1.57	3.28	47.76	6.00
47		10	ABURA-ASEBU-KWAMANKESE	1.23	3.28	37.60	6.00
48		11	ASIKUMA-ODOBEN-BRAKWA	1.00	3.28	30.49	6.00
49		13	MFANTSIMAN	0.97	3.28	29.47	6.00
50		13	EKUMFI	0.97	3.28	29.47	6.00
51	EASTERN	17	YILO KROBO	3.24	3.28	98.72	6.00
52		18	FANTEAKWA NORTH	3.16	3.28	96.43	6.00
53		19	ABUAKWA SOUTH	3.05	3.28	93.01	6.00
54		20	ABUAKWA NORTH	2.79	3.28	85.09	6.00
55		21	KWAHU AFRAM PLAINS NORTH	1.92	3.28	58.48	6.00
56		22	KWAHU AFRAM PLAINS SOUTH	1.90	3.28	57.83	6.00
57	GREATER ACCRA	4	DANGME WEST	2.35	3.28	71.65	6.00
58		5	GA CENTRAL	2.00	3.28	60.98	6.00
59		6	ADA WEST	1.93	3.28	58.94	6.00
60		7	GA EAST	1.83	3.28	55.89	6.00
61		9	GA SOUTH	1.77	3.28	53.86	6.00
62		9	ADA EAST	1.77	3.28	53.86	6.00
63		10	GA WEST	1.73	3.28	52.85	6.00
64	NORTH EAST	1	MAMPRUGU MOAGDURI	2.48	3.28	75.71	6.00
65		2	CHEREPONI	2.28	3.28	69.61	6.00
66		3	EAST MAMPRUSI	2.24	3.28	68.29	6.00
67		4	WEST MAMPRUSI	2.23	3.28	68.09	6.00
68		5.5	BUNKPURUGU/YUNYOO	1.50	3.28	45.63	6.00
69		5.5	YUNYOO-NASUAN	1.50	3.28	45.63	6.00
70	NORTHERN	1	MION	2.55	3.28	77.85	6.00
71		2.5	SAVELUGU	2.52	3.28	76.73	6.00
72		2.5	NANTON	2.52	3.28	76.73	6.00
73		4	TOLON	2.30	3.28	70.12	6.00
74		5	SAGNERIGU	2.27	3.28	69.11	6.00
75		6	TATALE SANGULI	2.18	3.28	66.57	6.00
76		7	NANUMBA SOUTH	2.14	3.28	65.24	6.00

77		8	TAMALE METRO	2.13	3.28	65.04	6.00
78		9	SABOBA	2.07	3.28	63.01	6.00
79		10	YENDI	2.02	3.28	61.48	6.00
80		11	KUMBUNGU	1.98	3.28	60.47	6.00
81		12	GUSHIEGU	1.87	3.28	56.91	6.00
82		13	ZABZUGU	1.83	3.28	55.89	6.00
83		14	KARAGA	1.74	3.28	53.15	6.00
84		15	KPANDAI	1.65	3.28	50.41	6.00
85		16	NANUMBA NORTH	1.64	3.28	49.90	6.00
86	<b>SAVANNAH</b>	1	WEST GONJA	2.32	3.28	70.73	6.00
87		2	NORTH EAST GONJA	2.20	3.28	67.07	6.00
88		3	NORTH GONJA	2.17	3.28	66.06	6.00
89		4	SAWLA/TUNA/KALBA	2.15	3.28	65.55	6.00
90		5	EAST GONJA	2.13	3.28	65.04	6.00
91		6	CENTRAL GONJA	2.13	3.28	64.84	6.00
92		7	BOLE	1.71	3.28	52.24	6.00
93	<b>UPPER EAST</b>	4	GARU	3.00	3.28	91.46	6.00
94		4	TEMPANE	3.00	3.28	91.46	6.00
95		5	BAWKU WEST	2.82	3.28	85.98	6.00
96		6	BINDURI	2.71	3.28	82.62	6.00
97		7	BONGO	2.62	3.28	80.00	6.00
98		8	BUILSA NORTH	2.62	3.28	79.78	6.00
99		9	BUILSA SOUTH	2.60	3.28	79.18	6.00
100		10	KASSENA NANKANA WEST	2.54	3.28	77.49	6.00
101		12	BOLGATANGA MUNICIPAL	2.48	3.28	75.49	6.00
102		12	BOLGATANGA EAST	2.48	3.28	75.49	6.00
103		13	BAWKU MUNICIPAL	2.29	3.28	69.80	6.00
104		14	PUSIGA	2.21	3.28	67.28	6.00
105		15	NABDAM	1.62	3.28	49.29	6.00
106	<b>UPPER WEST</b>	1	SISSALA EAST	2.70	3.28	82.24	6.00
107		2	WA WEST	2.59	3.28	78.89	6.00
108		3	WA MUNICIPAL	2.51	3.28	76.66	6.00
109		4	WA EAST	2.45	3.28	74.73	6.00
110		5	DAFIAMA-BUSSIE-ISSA	2.19	3.28	66.72	6.00
111		6	SISSALA WEST	1.94	3.28	59.07	6.00
112		7	NADOWLI	1.88	3.28	57.19	6.00
113		8	LAWRA	1.84	3.28	56.22	6.00
114		9	NANDOM	1.78	3.28	54.24	6.00
115		10	JIRAPA	1.77	3.28	54.00	6.00
116		11	LAMBUSSIE-KARNI	1.75	3.28	53.30	6.00
117	<b>VOLTA</b>	18	KETA MUNICIPAL	3.26	3.28	99.39	6.00

118	<b>WESTERN</b>	<b>1</b>	<b>AMENFI CENTRAL</b>	1.65	3.28	50.36	6.00
119		<b>2</b>	<b>WASSA EAST</b>	1.59	3.28	48.48	6.00
120		<b>3</b>	<b>MPORHOR</b>	1.58	3.28	48.17	6.00
121		<b>4</b>	<b>AMENFI EAST</b>	1.57	3.28	47.87	6.00
122		<b>5</b>	<b>AMENFI WEST</b>	1.57	3.28	47.76	6.00
123		<b>7</b>	<b>JOMORO</b>	1.45	3.28	44.11	6.00
124		<b>7</b>	<b>NZEMA EAST</b>	1.45	3.28	44.11	6.00
125		<b>7</b>	<b>PRESTEA HUNI-VALLEY</b>	1.45	3.28	44.11	6.00
126		<b>9</b>	<b>TARKWA NSUAEM</b>	1.43	3.28	43.70	6.00
127		<b>10</b>	<b>ELLEMBELE</b>	1.38	3.28	41.97	6.00
128		<b>11</b>	<b>SHAMA</b>	1.31	3.28	39.94	6.00
129		<b>12</b>	<b>AHANTA WEST</b>	0.88	3.28	26.93	6.00
130		<b>14</b>	<b>SEKONDI-TAKORADI</b>	0.77	3.28	23.58	6.00
131		<b>14</b>	<b>EFFIA KWESIMINTSIM</b>	0.77	3.28	23.58	6.00
132	<b>WESTERN NORTH</b>	<b>1</b>	<b>BODI</b>	1.78	3.28	54.17	6.00
133		<b>2</b>	<b>JUABESO</b>	1.73	3.28	52.85	6.00
134		<b>3</b>	<b>AOWIN</b>	1.60	3.28	48.68	6.00
135		<b>4</b>	<b>SEFWI-WIAWSO</b>	1.58	3.28	48.07	6.00
136		<b>5</b>	<b>SUAMAN</b>	1.56	3.28	47.56	6.00
137		<b>6</b>	<b>BIBIANI-ANHWIASO-BEKWAI</b>	1.54	3.28	46.95	6.00
138		<b>7</b>	<b>BIA EAST</b>	1.52	3.28	46.34	6.00
139		<b>8</b>	<b>BIA WEST</b>	1.49	3.28	45.53	6.00
140		<b>9</b>	<b>AKONTOMBRA</b>	1.45	3.28	44.21	6.00

#### APPENDIX 24: YIELD PERFORMANCE SUMMARY (RICE)

NAV = National Average

ACH\_Y = Achievable (Potential) Yields

	NUMBER	SHARE (%)
<b>TOTAL NUMBER OF DISTRICTS</b>	<b>219</b>	<b>100.0</b>
DISTRICTS WITH YIELDS ABOVE NATIONAL AVERAGE	78	35.6
DISTRICTS WITH YIELDS EQUAL TO NATIONAL AVERAGE	1	0.5
DISTRICTS WITH YIELDS BELOW NATIONAL AVERAGE	140	63.9

From the table above (Appendix 24), the average yield of rice (3-year average) for 35.6 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. 63.9 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**

<b>TOP 5 REGIONS</b>	<b>3-YEAR AVERAGE (2017-2019)</b>	<b>SHARE OF SUBTOTAL (%)</b>	<b>SHARE OF OVERALL TOTAL (%)</b>
<b>BRONG AHAFO</b>	498,539	27%	21%
<b>EASTERN</b>	485,176	27%	20%
<b>ASHANTI</b>	353,088	19%	15%
<b>NORTHERN</b>	243,944	13%	10%
<b>CENTRAL</b>	243,171	13%	10%
<b>SUB TOTAL</b>	<b>1,823,917</b>		<b>77%</b>
<b>TOTAL AVG PROD (ALL REGIONS)</b>	<b>2,381,402</b>		

**NOTES**

Table A shows the top 5 maize producing regions which accounted for 76.59% of total maize produced in Ghana. Brong-Ahafo region surpassed Eastern region to become the largest maize producing region, accounting for 20.93% of overall total (national average) and 27.33% of total production for the top 5 regions.

**B. RICE PRODUCTION (MT) STATISTICS**

<b>TOP 5 REGIONS</b>	<b>3-YEAR AVERAGE (2017-2019)</b>	<b>SHARE OF SUBTOTAL (%)</b>	<b>SHARE OF OVERALL TOTAL (%)</b>
<b>VOLTA</b>	305,439	44	38
<b>NORTHERN</b>	174,535	25	22
<b>UPPER EAST</b>	115,448	16	14
<b>ASHANTI</b>	53,305	8	7
<b>WESTERN</b>	52,056	7	6
<b>SUB TOTAL</b>	<b>700,784</b>		<b>87%</b>
<b>TOTAL AVG PROD (ALL REGIONS)</b>	<b>805,424</b>		

**NOTES**

Volta Region remains the leading rice (paddy) producing region in Ghana based on 3-year average, recording a share of about 38% of total production in the country. Interestingly, the Volta Region and the Northern Region contributed more than half (60%) of the overall (national) total in the country. The top 5 regions together contributed an overall share of about 87% signifying how important these regions are in terms of rice production (Table B).

### C. SORGHUM PRODUCTION (MT) STATISTICS

TOP 5 REGIONS	3-YEAR AVERAGE (2017 – 2019)	SHARE OF SUB-TOTAL (%)	SHARE OF OVERALL TOTAL (%)
NORTHERN	123,276	39	39
UPPER WEST	108,765	35	35
UPPER EAST	70,646	23	23
VOLTA	9,056	3	3
BRONG AHAFO	1,926	1	1
<b>SUB TOTAL</b>	<b>313,668</b>		<b>100</b>
<b>TOTAL AVG. PROD. (ALL REGIONS)</b>	<b>313,668</b>		

#### NOTES

Sorghum is mostly grown in the three Northern Regions and these regions together accounted for 96.5% of total production based on 3-year average. Volta Region and Brong-Ahafo Region are the other two regions that produce sorghum, and both contributed a share of about 3.5% to the total production in the country. The Northern Region and the Upper West Region respectively contributed a higher share of about 39% and 35% (Table C).

### D. CASSAVA PRODUCTION (MT) STATISTICS

TOP 5 REGIONS	3-YEAR AVERAGE (2017 – 2019)	SHARE OF SUBTOTAL (%)	SHARE OF OVERALL TOTAL (%)
EASTERN	5,486,431	30	26
BRONG AHAFO	4,601,956	25	22
ASHANTI	3,316,911	18	16
CENTRAL	2,780,578	15	13
VOLTA	1,941,069	11	9
<b>SUB TOTAL</b>	<b>18,126,944</b>		<b>87</b>
<b>TOTAL AVG PROD (ALL REGIONS)</b>	<b>20,911,430</b>		

#### NOTES

Eastern Region remains the leading producer of cassava in Ghana with a share of 26.24% of national total based on a 3-year average production. Brong Ahafo Region follows closely with a share of 22.01%. The 5 top producing regions together, account for 86.68% of total cassava production in the country. (Table D)

### E. YAM PRODUCTION (MT) STATISTICS

TOP 5 REGIONS	3-YEAR AVERAGE (2017 - 2019)	SHARE OF SUBTOTAL (%)	SHARE OF OVERALL TOTAL (%)
BRONG AHAFO	2,745,556	37	33
NORTHERN	2,471,830	33	30
EASTERN	896,945	12	11
UPPER WEST	731,698	10	9
VOLTA	655,189	9	8
<b>SUB TOTAL</b>	<b>7,501,218</b>		<b>91</b>
<b>TOTAL AVG PROD (ALL REGIONS)</b>	<b>8,265,386</b>		

#### NOTES

The top 5 yam producing regions in Ghana together contribute about 91% of national total. The leading producer, Brong Ahafo Region, accounts for 33.22% of the entire production. Against the top 5 average, however, the region (Brong Ahafo) share is 36.60%. The Northern Region follows, in second place, with a share of about 29.91% of overall total. Brong Ahafo Region and the Northern Region remarkably produces more than half (63.13%) of the overall national production (See Table E for further details).

### F. COWPEA PRODUCTION (MT) STATISTICS

TOP 5 REGIONS	3-YEARS AVERAGE (2017-2019)	SHARE OF SUB- TOTAL (%)	SHARE OF OVERALL TOTAL (%)
NORTHERN	90,394	40	39
UPPER WEST	89,315	40	38
UPPER EAST	27,577	12	12
VOLTA	10,249	5	4
BRONG AHAFO	7,825	3	3
<b>SUB TOTAL</b>	<b>225,360</b>		<b>96</b>
<b>TOTAL AVG PROD (ALL REGIONS)</b>	<b>234,068</b>		

#### NOTES

The 3 Northern Regions dominate in cowpea production, with a share of about 89% of total volume of production in Ghana. The Northern Region alone contributes 38.62% of total production in the country, followed closely by Upper West Region, with 38.16% share of national total. Volta Region has surpassed Brong-Ahafo Region to become the fourth highest producer of cowpea. The top 5 regions together contribute about 96% 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
	<b>GHANA</b>	5,467,054	2,503,006	2,964,048	5,276,514	2,777,719	2,498,795
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
	<b>WESTERN REGION</b>						
0001	JOMORO	34,502	15,409	19,093	31,023	15,445	15,578
0002	ELLEMBELLE	18,682	8,364	10,318	15,670	7,665	8,005
0003	NZEMA EAST	13,509	7,393	6,116	15,795	8,025	7,770
0004	AHANTA WEST	26,095	12,325	13,770	24,070	10,906	13,164
0005	SEKONDI TAKORADI METROPOLIS	142,560	13,655	128,905	26,771	14,190	12,581
0006	SHAMA	19,291	5,601	13,690	10,863	5,122	5,741
0007	WASSA EAST	18,624	14,662	3,962	30,035	15,326	14,709
0008	TARKWA NSUAEM MUNICIPAL	21,713	8,469	13,244	17,438	9,653	7,785
0009	PRESTEA/HUNI VALLEY	38,295	19,904	18,391	38,689	21,280	17,409
0010	WASSA AMENFI EAST	18,620	14,632	3,988	28,418	14,803	13,615
0011	WASSA AMENFI WEST	20,262	14,515	5,747	29,478	16,178	13,300
0012	AOWIN	26,520	20,486	6,034	41,561	23,944	17,617
0013	SEFWI AKONTOMBRA	17,592	15,228	2,364	29,418	16,697	12,721
0014	SEFWI WIAWSO	30,074	22,297	7,777	44,177	23,031	21,146
0015	SEFWI BIBIANI-AHWIASO BEKWAI	27,961	20,938	7,023	41,894	20,751	21,143

	REGION/DISTRICT	HOUSEHOLDS IN DWELLING UNITS			HOUSEHOLD MEMBERS ENGAGED IN AGRICULTURE		
		TOTAL	AGRICULTURE	NON-AGRICULTURE	TOTAL	MALE	FEMALE
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
<b>CENTRAL REGION</b>							
0001	KOMENDA-EDINA-EGUAFO-ABIREM MUNICIPAL	35,402	17,346	18,056	35,008	16,282	18,726
0002	CAPE COAST METROPOLIS	40,386	4,141	36,245	8,518	4,446	4,072
0003	ABURA-ASEBU-KWAMANKESE	28,704	17,419	11,285	30,924	14,321	16,603
0004	MFANTSIMAN	35,673	10,568	25,105	20,145	9,273	10,872
0005	AJUMAKO-ENYAN-ESSIAM	35,106	27,073	8,033	49,456	22,545	26,911
0006	GOMOA WEST	32,715	16,224	16,491	31,314	13,039	18,275
0007	EFFUTU MUNICIPAL	17,121	2,166	14,955	4,586	2,149	2,437
0008	GOMOA EAST	52,898	17,834	35,064	33,797	15,755	18,042
0009	EWUTU SENYA	20,955	11,278	9,677	22,010	10,676	11,334
0010	AGONA EAST	21,021	14,624	6,397	25,677	13,178	12,499
0011	AGONA WEST MUNICIPAL	29,478	14,573	14,905	27,451	13,841	13,610
0012	ASIKUMA-ODOBEN BRAKWA	26,997	22,403	4,594	40,176	19,685	20,491
0013	ASSIN SOUTH	23,200	18,822	4,378	36,311	18,066	18,245
0014	ASSIN NORTH MUNICIPAL	36,317	27,009	9,308	51,025	26,835	24,190
0015	TWIFO ATI MORKWA	12,959	9,309	3,650	18,290	9,432	8,858
0016	UPPER DENKYIRA EAST MUNICIPAL	14,200	8,480	5,720	17,222	8,977	8,245
0017	UPPER DENKYIRA WEST	13,436	11,140	2,296	22,686	11,400	11,286
0018	TWIFO HEMAN LOWER DENKYIRA	12,242	9,988	2,254	18,490	9,349	9,141
0019	EKUMFI	12,631	7,760	4,871	14,068	6,054	8,014
0020	AWUTU SENYA EAST MUNICIPAL	25,322	2,697	22,625	6,294	3,329	2,965

	REGION/DISTRICT	HOUSEHOLDS IN DWELLING UNITS	HOUSEHOLD MEMBERS ENGAGED IN AGRICULTURE		REGION/DISTRICT
<b>GREATER ACCRA REGION</b>					
0001	GA SOUTH MUNICIPAL	100,701	10,656	90,045	2
0002	GA WEST MUNICIPAL	55,913	3,883	52,030	9
0003	GA EAST MUNICIPAL	37,415	1,938	35,477	4
0004	ACCRA METROPOLIS	450,749	14,208	436,541	3
0005	ADENTA MUNICIPAL	20,478	1,453	19,025	3
0006	LEDZOKUKU KROWOR MUNICIPAL	60,859	1,987	58,872	4
0007	ASHAIMAN MUNICIPAL	49,936	1,912	48,024	4
0008	TEMA METROPOLIS	70,797	2,549	68,248	3
0009	SHAI OSUDOKU	11,862	4,946	6,916	1
0010	ADA EAST	15,631	6,888	8,743	14
0011	GA CENTRAL MUNICIPAL	28,936	1,320	27,616	3
0012	LA DADEKOTOPON MUNICIPAL	51,154	1,609	49,545	3
0013	LA NKWANTANANG-MADINA MUNICIPAL	28,870	1,516	27,354	3
0014	KPONE KATAMANSO	26,800	2,228	24,572	3
0015	NINGO PRAMPARAM	14,627	4,933	9,694	13
0016	ADA WEST	11,642	6,689	4,953	14
<b>VOLTA REGION</b>					
0001	SOUTH TONGU	20,509	11,546	8,963	2
0002	KETA MUNICIPAL	37,705	12,961	24,744	2
0003	KETU SOUTH	39,119	8,353	30,766	1
0004	KETU NORTH	26,437	16,304	10,133	2
0005	AKATSI SOUTH	25,758	17,166	8,592	3
0006	CENTRAL TONGU	12,996	10,187	2,809	2
0007	AGOTIME-ZIOPE	7,020	5,075	1,945	9
0008	HO MUNICIPAL	49,826	17,636	32,190	3
0009	SOUTH DAYI	10,761	6,242	4,519	13
0010	KPANDO MUNICIPAL	13,439	6,757	6,682	13
0011	HOHOE MUNICIPAL	43,329	24,863	18,466	4
0012	BLAKOYE	15,226	11,122	4,104	2

0013	JASIKAN	14,034	9,933	4,101	19,034
0014	KADJEBI	13,303	10,581	2,722	26,606
	<b>REGION/DISTRICT</b>	<b>HOUSEHOLDS IN DWELLING UNITS</b>	<b>HOUSEHOLD MEMBERS ENGAGED IN AGRICULTURE</b>		<b>REGION/DISTRICT</b>
0015	KRACHI EAST	22,289	15,523	6,766	34,578
0016	KRACHI WEST	9,491	6,342	3,149	19,034
0017	NKWANTA SOUTH	22,733	17,475	5,258	44,966
0018	NKWANTA NORTH	9,989	8,512	1,477	26,488
0019	NORTH TONGU	18,577	12,063	6,514	37,154
0020	AKATSI NORTH	8,003	6,712	1,291	21,006
0021	ADAKLU	6,089	4,977	1,112	16,178
0022	HO WEST	23,875	17,559	6,316	47,750
0023	AFADZATO SOUTH	22,529	16,400	6,129	45,058
0024	NORTH DAYI	10,230	6,849	3,381	20,459
0025	KRACHI NCHUMURU	12,333	10,086	2,247	24,666
	<b>EASTERN REGION</b>				
0001	BIRIM SOUTH	28,800	22,518	6,282	57,600
0002	BIRIM MUNICIPAL	36,353	20,331	16,022	72,706
0003	WEST AKIM MUNICIPAL	26,752	15,238	11,514	53,504
0004	SUHUM MUNICIPAL	22,315	12,895	9,420	44,630
0005	NSAWAM ADOAGYIRI MUNICIPAL	21,232	6,657	14,575	42,464
0006	AKWAPIM NORTH	33,322	15,703	17,619	66,644
0007	NEW JUABEN MUNICIPAL	49,474	9,771	39,703	99,148
0008	YILO KROBO MUNICIPAL	20,613	11,820	8,793	41,226
0009	LOWER MANYA KROBO MUNICIPAL	22,150	7,197	14,953	44,300
0010	ASUOGYAMAN	23,551	12,071	11,480	47,102
0011	UPPER MANYA KROBO	15,379	12,686	2,693	31,158
0012	FANTEAKWA	24,026	18,019	6,007	48,052
0013	EAST AKIM MUNICIPAL	42,092	23,798	18,294	84,184
0014	KWAEBIBIREM	27,650	19,578	8,072	55,300
0015	AKYEMANSA	21,361	18,626	2,735	42,718
0016	BIRIM NORTH	18,511	13,771	4,740	37,022
0017	ATIWA	26,342	20,206	6,136	52,684

0018	KWAHU WEST MUNICIPAL	23,296	10,195	13,101	19,196
0019	KWAHU SOUTH	16,725	10,616	6,109	16,725
0020	KWAHU EAST	18,409	12,676	5,733	18,409
	<b>REGION/DISTRICT</b>	<b>HOUSEHOLDS IN DWELLING UNITS</b>	<b>HOUSEHOLD MEMBERS ENGAGED IN AGRICULTURE</b>		<b>REGION/DISTRICT</b>
0021	KWAHU AFRAM PLAINS NORTH	20,943	15,085	5,858	20,943
0022	UPPER WEST AKIM	20,053	15,014	5,039	20,053
0023	AKWAPIM SOUTH	9,287	4,475	4,812	9,287
0024	AYENSUANO	18,098	14,622	3,476	18,098
0025	DENKYEMBUOR	20,304	11,346	8,958	20,304
0026	KWAHU AFRAM PLAINS SOUTH	25,007	19,343	5,664	25,007
	<b>ASHANTI REGION</b>				
0001	ATWIMA MPONUA	26,149	22,237	3,912	26,149
0002	AMANSIE WEST	29,359	21,755	7,604	29,359
0003	AMANSIE CENTRAL	21,511	18,348	3,163	21,511
0004	ADANSI SOUTH	25,626	21,208	4,418	25,626
0005	OBUASI MUNICIPAL	41,312	9,209	32,103	41,312
0006	ADANSI NORTH	23,863	17,696	6,167	23,863
0007	BEKWAI MUNICIPAL	27,258	17,854	9,404	27,258
0008	BOSOME FREHO	12,923	10,541	2,382	12,923
0009	ASANTE AKIM SOUTH	26,536	21,334	5,202	26,536
0010	ASANTE AKIM CENTRAL MUNICIPAL	16,919	8,467	8,452	16,919
0011	EJISU JUABEN MUNICIPAL	33,078	15,549	17,529	33,078
0012	BOSUMTWI	22,895	10,997	11,898	22,895
0013	ATWIMA KWANWOMA	20,734	7,972	12,762	20,734
0014	KUMASI METROPOLIS	440,283	37,456	402,827	440,283
0015	ATWIMA NWABIAGYA	35,205	12,523	22,682	35,205
0016	AHAFO ANO SOUTH	26,930	21,993	4,937	26,930
0017	AHAFO ANO NORTH	20,994	15,605	5,389	20,994
0018	OFFINSO MUNICIPAL	15,376	10,404	4,972	15,376
0019	AFIGYA KWABRE	30,066	11,108	18,958	30,066
0020	KWABRE EAST	27,122	5,153	21,969	27,122
0021	SEKYERE SOUTH	19,445	13,092	6,353	19,445

0022	MAMPONG MUNICIPAL	19,203	11,698	7,505	2
0023	SEKYERE EAST	13,668	6,686	6,982	1
0024	SEKYERE KUMEWU	14,185	11,598	2,587	2
0025	SEKYERE CENTRAL	14,632	11,764	2,868	2
BRONG AHAFO REGION					
REGION/DISTRICT	HOUSEHOLDS IN DWELLING UNITS	HOUSEHOLD MEMBERS ENGAGED IN AGRICULTURE		REGION/DISTRICT	
0026	EJURA SEKYE DUMASI	16,402	11,431	4,971	2
0027	OFFINSO NORTH	11,162	8,794	2,368	1
0028	ASOKORE MAMPONG MUNICIPAL	72,478	3,596	68,882	9
0029	ASANTE AKIM NORTH	15,480	11,259	4,221	1
0030	SEKYERE AFRAM PLAINS NORTH	5,411	4,728	683	9
0001	ASUNAFO SOUTH	20,241	17,128	3,113	3
0002	ASUNAFO NORTH MUNICIPAL	27,232	19,548	7,684	3
0003	ASUTIFI NORTH	12,138	8,024	4,114	1
0004	DORMAA CENTRAL MUNICIPAL	25,432	17,383	8,049	3
0005	DORMAA EAST	11,722	9,404	2,318	1
0006	TANO SOUTH	16,312	12,411	3,901	2
0007	TANO NORTH	18,478	14,208	4,270	2
0008	SUNYANI MUNICIPAL	28,431	9,752	18,679	1
0009	SUNYANI WEST	19,716	11,903	7,813	2
0010	BEREKUM MUNICIPAL	31,129	17,834	13,295	3
0011	JAMAN SOUTH	20,178	16,595	3,583	3
0012	JAMAN NORTH	16,198	13,230	2,968	2
0013	TAIN	16,319	14,342	1,977	3
0014	WENCHI MUNICIPAL	19,138	12,485	6,653	2
0015	TECHIMAN MUNICIPAL	34,137	15,781	18,356	2
0016	NKORANZA SOUTH	21,565	16,265	5,300	3
0017	NKORANZA NORTH	13,882	12,063	1,819	2
0018	ATEBUBU AMANTIN	20,349	14,283	6,066	2
0019	SENE WEST	10,936	8,771	2,165	1
0020	PRU	22,579	13,943	8,636	2
0021	KINTAMPO SOUTH	15,522	13,704	1,818	3

0022	KINTAMPO NORTH MUNICIPAL	19,330	11,632	7,698	2
0023	ASUTIFI SOUTH	10,848	7,793	3,055	1
0024	DORMAA WEST	10,327	8,385	1,942	1
0025	TECHIMAN NORTH	13,490	8,135	5,355	1
0026	BANDA	3,685	2,897	788	3
	<b>REGION/DISTRICT</b>	<b>HOUSEHOLDS IN DWELLING UNITS</b>	<b>HOUSEHOLD MEMBERS ENGAGED IN AGRICULTURE</b>		<b>REGION/DISTRICT</b>
0027	SENE EAST	11,201	8,198	3,003	1
	<b>NORTHERN REGION</b>				
0001	BOLE	10,160	6,260	3,900	1
0002	SAWLA-TUNA-KALBA	14,906	11,945	2,961	2
0003	WEST GONJA	6,255	4,085	2,170	1
0004	GONJA CENTRAL	11,413	8,465	2,948	2
0005	EAST GONJA	18,811	13,662	5,149	3
0006	KPANDAI	16,394	14,704	1,690	3
0007	NANUMBA SOUTH	11,487	10,627	860	3
0008	NANUMBA NORTH	16,914	14,919	1,995	3
0009	ZABZUGU	6,567	6,137	430	2
0010	YENDI MUNICIPAL	12,721	9,271	3,450	3
0011	TAMALE METROPOLIS	35,408	9,251	26,157	2
0012	TOLON	8,110	7,495	615	2
0013	SAVELUGU-NANTON	14,669	13,093	1,576	3
0014	KARAGA	7,664	7,263	401	2
0015	GUSHIEGU	11,150	10,237	913	3
0016	SABOBA	9,011	8,380	631	2
0017	CHEREPONI	7,116	6,474	642	1
0018	BUNKPURUGU YUNYOO	17,621	16,578	1,043	4
0019	EAST MAMPRUSI	13,895	12,588	1,307	3
0020	WEST MAMPRUSI	14,432	12,340	2,092	3
0021	NORTH GONJA	4,793	4,186	607	1
0022	KUMBUMGU	4,133	3,942	191	1
0023	SAGNERIGU MUNICIPAL	23,447	8,569	14,878	1
0024	MION	8,842	8,143	699	3

0025	TATALE SANGULI	6,986	6,558	428	2
<b>UPPER EAST</b>					
0001	MAMPRUGU MOAGDURI	5,214	5,066	148	1
0002	BUILSA NORTH	10,872	9,031	1,841	2
0003	KASENA NANKANA WEST	12,813	11,616	1,197	2
0004	KASENA NANKANA EAST	19,790	16,363	3,427	3
	<b>REGION/DISTRICT</b>	<b>HOUSEHOLDS IN DWELLING UNITS</b>	<b>HOUSEHOLD MEMBERS ENGAGED IN AGRICULTURE</b>		<b>REGION/DISTRICT</b>
0005	BOLGATANGA MUNICIPAL	26,706	15,959	10,747	4
0006	TALENSI	15,748	14,291	1,457	3
0007	BONGO	15,188	14,537	651	3
0008	BAWKU WEST	15,169	14,159	1,010	3
0009	GARU TEMPANE	17,520	16,718	802	5
0010	BAWKU MUNICIPAL	15,012	9,135	5,877	2
0011	BUILSA SOUTH	6,043	5,600	443	1
0012	NABDAM	5,966	5,710	256	1
0013	BINDURI	9,199	8,641	558	2
0014	PUSIGA	7,603	6,900	703	2
<b>UPPER WEST</b>					
0001	WA WEST	11,486	10,524	962	3
0002	WA MUNICIPAL	18,891	5,841	13,050	1
0003	WA EAST	10,768	10,167	601	2
0004	SISSALA EAST	8,652	7,339	1,313	1
0005	NADOWLI-KALEO	10,179	8,328	1,851	1
0006	JIRAPA	13,911	11,508	2,403	3
0007	SISSALA WEST	7,116	6,535	581	1
0008	LAMBUSSIE KARNI	7,524	6,325	1,199	1
0009	LAWRA	9,200	7,680	1,520	1
0010	DAFFIAMA BUSSIE	5,030	4,355	675	1
0011	NANDOM	7,417	6,329	1,088	1

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



**APPENDIX 27: EXCHANGE RATE; GHANA CEDIS/US DOLLAR (GHC/US\$) EQUIVALENT**

	2014	2015	2016	2017	2018	2019
<b>EXCHANGE RATE (GHC/US\$)</b>	2.94	3.78	3.92	4.36	4.59	5.22

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

**DISTRIBUTION OF OUTSTANDING CREDIT TO THE AGRICULTURAL SECTOR**

According to Bank of Ghana, 4.0% of the total outstanding stock of credit of about GH¢ 0.5 billion was extended to agriculture including forestry and fisheries in 2019.

**APPENDIX 28: YEARLY DISTRIBUTION OF OUTSTANDING CREDIT TO THE AGRICULTURAL SECTOR**

SECTOR	PERIOD/ (GH¢ MILLION)					
	2014	2015	2016	2017	2018	2019
<b>AGRICULTURE, FORESTRY &amp; FISHING</b>	9,467.42	14,650.85	14,693.84	16,380.75	19,024.5	19,561.67
<b>COCOA MARKETING</b>	744.02	756.82	1210.32	3886.91	5742.7	-
<b>TOTAL AGRICULTURE</b>	10,211.44	15,407.67	15,904.16	20,267.66	24,767.2	19,561.67
<b>ALL SECTORS</b>	260,572.91	305,795.13	389,041.85	44,3621.11	461,856.66	484,137.11
<b>% CHANGE IN THE TREND TO ALL SECTORS</b>	n. a	4.06%	4.09%	4.57%	5.36%	-
<b>% CHANGE IN THE TREND TO AGRICULTURE</b>	n. a	21.50%	28.20%	26.80%	22.20%	4.00%

*Source: BoG (2020)*